PUBLIC IMPROVEMENTS CONTRACT DOCUMENTS

NEAL SMITH TRAIL REHABILITATION - EUCLID AVENUE TO SAYLOR CREEK BRIDGE

ACTIVITY ID
112019009

PLAN FILE NO.
626-001/044

CITY COUNCIL APPROVAL

APPROVAL DATE
February 21, 2022

ROLL CALL NO.

CONTRACT NO.

CONTRACTOR

CONTRACT AMOUNT
$.00

ENGINNEERING DEPARTMENT
Steven L. Naber, P.E.
Des Moines City Engineer

Funding Information
Object Code
Organization No
Project No
543080
C040PK
PK045
The following documents are part of this contract:

- Instructions to Bidders
- Official Publications
- Proposal
- Bid Bond
- Contract
- Performance, Payment and Maintenance Bond
- Addenda:

  Special Provisions:
  - Bidding Requirements
  - Contractual Requirements
  - Technical Specifications

  Supplemental Specifications:
  - General Supplemental Specifications to SUDAS, 2021 Edition

PROJECT ENGINEER: Christopher Kuhl, P.E.
Phone Number: (515) 283-4073

May 24, 2021
INSTRUCTIONS TO BIDDERS

Activity ID: 112019009
Project Name: Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge

The work comprising the above referenced project shall be constructed in accordance with the SUDAS Standard Specifications, 2021 Edition; and as further modified by the supplemental specifications and special provisions included in the contract documents. The Des Moines City Engineer is the Engineer. The terms used in the contract documents are defined in said SUDAS Standard Specifications. The City of Des Moines is the Contracting Authority on this project and shall hereinafter be referred to as the 'Jurisdiction'. Before submitting your bid, please review the SUDAS Standard Specifications, in particular, Division 1 - General Provisions and Covenants, including the sections regarding proposal requirements, bonding, contract execution and insurance requirements. Please be certain that all documents have been properly completed and submitted to the City Clerk, 1st Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa, 50309.

I. BID SECURITY

The bid security must be in the minimum amount of 10% of the total bid amount including all add alternates (do not deduct the amount of deduct-altarternates). Bid security shall be as defined in Section 26.8 of the Iowa Code and shall be in the form of a cashier's check or certified check drawn on a state-chartered or federally chartered bank, or a certified share draft drawn on a state-chartered or federally chartered credit union, or a bid bond executed by a corporation authorized to contract as a surety in Iowa or satisfactory to the Jurisdiction. The bid bond must be submitted on the enclosed Bid Bond form (DSV. Urban 04/2098) as no other bid bond forms are acceptable. All signatures on the bid bond must be original signatures in ink; facsimile (fax) of any signature on the bid bond is not acceptable. Bid security other than said bid bond shall be made payable to the City of Des Moines. "Miscellaneous Bank Checks", and personal checks, as well as "Money Orders" and "Traveler's Checks" issued by persons, firms or corporations licensed under Chapter 533B of the Iowa Code, are not acceptable bid security. NOTE: If the Bidder submits Bid Security in the form of a Bid Bond, and the Bidder wishes to have their Bid Bond returned to them after an approved contract and bond has been executed or after there is a rejection of all bids (in accordance with Iowa Code 26.10), the Bidder shall include a self-addressed envelope with the Bid Bond.

II. SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDER

A. The proposal shall be sealed in an envelope, properly identified as the Proposal with the project title and the name and address of the bidder, and deposited with the Jurisdiction at or before the time and at the place provided in the Notice to Bidders. It is the sole responsibility of the bidder to see that its proposal is delivered to the Jurisdiction prior to the time for opening bids, along with the appropriate bid security sealed in the separate envelope identified as Bid Security and attached to the outside of the bid proposal envelope. Any proposal received after the scheduled time for the receiving of proposals will be returned to the bidder unopened and will not be considered. Bidders must either utilize the two envelopes provided with the Bidding documents, or Bidders provide their own two envelopes, for their proposals and bid security for submission of their bids.

Sales Tax: The bidder should not include sales tax in the bid pursuant to Iowa Code. A sales tax exemption certificate will be available for all material purchased for incorporation in the project.

Accessibility for individuals with disabilities. The City of Des Moines is pleased to provide accommodations to individuals with disabilities or groups and encourages participation in City government. To better serve you, please notify us at least three business days in advance when possible at 515-283-4209, should special accommodations be required.
B. All pages of the Proposal must be returned. The following documents shall be completed, signed and returned in the Proposal envelope.

PROPOSAL - Complete each of the following parts:

- Part B - Acknowledgement of Addenda, if any have been issued;
- Part C - Bid Items, Quantities and Prices;
- Part F - Additional Requirements; The following proposal attachment documents must be completed and attached:

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION OF ATTACHMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Reciprocal Resident Bidder and Labor Force</td>
</tr>
<tr>
<td>2.</td>
<td>General</td>
</tr>
</tbody>
</table>

- Part G - Identity of Bidder.

The Bidder shall sign the proposal. The signature on the proposal and all proposal attachments must be an original signature in ink signed by the same individual who is the Company Owner or an authorized Officer of the Company; copies or facsimile of any signature will not be accepted. The Bidder Status Form (PROPOSAL Part F Item 2B), is required by the Iowa Labor Commissioner, pursuant to Iowa Admin. Code rule 875-156.2(1). The Bidder must complete and submit the Bidder Status Form, signed by an authorized representative of the Bidder, with their bid proposal. Under Iowa Admin. Code rule 875-156.2(1), failure to provide the Bidder Status Form with the bid may result in the bid being deemed non-responsive and may result in the bid being rejected. The Worksheet: Authorization to Transact Business from the Labor Commissioner is included on page 3 of 3 of the Instructions to Bidders, to assist Bidders in completing the Bidder Status Form.

C. Out-of-State Contractors:

1. Pursuant to Section 91C.7 of the Iowa Code, an out-of-state contractor, before commencing a contract in excess of five thousand dollars in value in Iowa, shall file a bond with the Division of Labor Services of the Iowa Department of Workforce Development. The contractor should contact 515-242-5871 for further information. Prior to contract execution, the City Engineer may forward a copy of this contract to the Iowa Department of Workforce Development as notification of pending construction work. It is the contractor's responsibility to comply with said Section 91C.7 before commencing this work.

2. Prior to entering into contract, the designated low bidder, if it be a corporation organized under the laws of a state other than Iowa, shall file with the Engineer a certificate from the Secretary of the State of Iowa showing that it has complied with all the provisions of Chapter 490 of the Code of Iowa, or as amended, governing foreign corporations. For further information contact the Iowa Secretary of State Office at 515-281-5204.

III. GENERAL

A. All bid documents must be submitted as printed. No alterations, additions, or deletions are permitted. If the Bidder notes a requirement in the contract documents that the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.

B. Additional information regarding addenda, plan holders, bid tabulations, etc. can be found on the Engineering Department web site at <http://www.dmgov.org/Departments/Engineering/Pages/BidsContracts.aspx>.
Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status Form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

Yes  No  My business is currently registered as a contractor with the Iowa Division of Labor.

Yes  No  My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.

Yes  No  My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.

Yes  No  My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.

Yes  No  My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa secretary of state, has filed its most recent biennial report with the secretary of state, and has neither received a certificate of withdrawal from the secretary of state nor had its authority revoked.

Yes  No  My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.

Yes  No  My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.

Yes  No  My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.

Yes  No  My business is a limited partnership or limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.

Yes  No  My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.

Yes  No  My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.
NOTICE TO BIDDERS

CITY OF DES MOINES PUBLIC IMPROVEMENT PROJECT

Time and Place for Filing Sealed Proposals. Sealed bids for the work comprising each improvement as stated below must be filed at or before 11:00 a.m. on January 25, 2022, in the office of the City Clerk, 1st Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa, 50309.

Accessibility for individuals with disabilities. The City of Des Moines is pleased to provide accommodations to individuals with disabilities or groups and encourages participation in City government. To better serve you, please notify us at least three business days in advance when possible at 515-283-4209, should special accommodations be required.

Time and Place Sealed Proposals Will be Opened and Considered. Sealed proposals will be opened and bids tabulated at 11:00 a.m., on January 25, 2022, in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa, for consideration by the City Council (Council) at its meeting on February 21, 2022. The City of Des Moines (Jurisdiction) reserves the right to reject any and all bids.

Time for Commencement and Completion of Work. Work on each improvement shall be commenced upon approval of the contract by the Council, and completed as stated below.

Bid Security. Each bidder shall accompany its bid with bid security as defined in Section 26.8 of the Iowa Code and as specified by the Jurisdiction.

Contract Documents. Copies of the contract documents will be available after January 10, 2022, from the City Engineer's Office, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa 50309, at no cost, phone (515-283-4573).

Preference for Iowa Products and Labor. By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the State of Iowa, and to Iowa domestic labor, to the extent lawfully required under Iowa statutes.

Sales Tax. The bidder should not include sales tax in the bid. A sales tax exemption certificate will be available for all material purchased for incorporation in the project.

General Nature of Public Improvement.

Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge, 112019009

The improvement includes the reconstruction of a Hot Mix Asphalt (HMA) multi-use trail, Portland Cement Concrete (PCC) sidewalk and sidewalk ramps, drainage improvements, fencing, trail signage, traffic control, grading, site restoration, erosion control, and other associated work and incidental items; all in accordance with the contract documents, including Plan File No. 626-001/044, along the east side of the Des Moines River between Euclid Avenue and the Saylor Creek Bridge north of the city limits, and along the south side of Euclid Avenue between 16th Street and the Des Moines River.

This project shall be fully completed not later than September 30, 2022 and in accordance with completion provisions.

Engineer's Construction Estimate. $821,000.00

Preletting Conference.
NOTICE OF PUBLIC HEARING
CITY OF DES MOINES PUBLIC IMPROVEMENT PROJECT

Public Hearing on Proposed Contract Documents and Estimated Costs for Improvement. A public hearing will be held by the City Council on the proposed contract documents (plans, specifications and form of contract) on file in the City Engineer’s Office, and estimated cost for each improvement at its meeting on February 21, 2022, at 5:00 p.m., in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa. Please check the posted agenda in advance of the February 21, 2022 meeting for any update on the manner in which the public hearing will be conducted to comply with COVID-19 social distancing and safety guidelines. The City Council Meetings are open to all individuals regardless of disability. To better serve you, please notify the City Clerk at least three business days in advance, when possible, should special accommodations be required.

General Nature of Public Improvement

Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge, 112019009

The improvement includes the reconstruction of a Hot Mix Asphalt (HMA) multi-use trail, Portland Cement Concrete (PCC) sidewalk and sidewalk ramps, drainage improvements, fencing, trail signage, traffic control, grading, site restoration, erosion control, and other associated work and incidental items; all in accordance with the contract documents, including Plan File No. 626-001/044, along the east side of the Des Moines River between Euclid Avenue and the Saylor Creek Bridge north of the city limits, and along the south side of Euclid Avenue between 16th Street and the Des Moines River.

Published in the Des Moines Register
February 2, 2022
PUBLIC NOTICE OF STORM WATER DISCHARGE

The City of Des Moines, or its Contractor for the following work, plans to submit a Notice of Intent to the Iowa Department of Natural Resources to be covered under NPDES General Permit No. 2 “Storm Water Discharge Associated with Industrial Activity for Construction Activities.” The storm water discharge will be from the construction of the Neal Smith Trail Rehabilitation Euclid Avenue to Saylor Creek Bridge, Activity ID 11-2019-009.

Located in

NE ¼ Sec. 28, T79N, R24W, Polk County
SE ¼ Sec. 21, T79N, R24W, Polk County
NE ¼ Sec. 21, T79N, R24W, Polk County
NW ¼ Sec. 22, T79N, R24W, Polk County

Storm water will be discharged from multiple point source and will be discharged to the following stream: Des Moines River.

Comments may be submitted to the Storm Water Discharge Coordinator, IOWA DEPARTMENT OF NATURAL RESOURCES, Environmental Protection Division, 502 E. 9th Street, Des Moines, IA, 50319-0034. The public may review the Notice of Intent from 8:00 a.m. to 4:30 p.m., Monday through Friday, at the above address after it has been received by the department.

Published in the The Des Moines Register
January 12, 2022
PROPOSAL

To the Honorable Mayor and Members of the City Council, City of Des Moines, Iowa

PROPOSAL: PART A - SCOPE

The City of Des Moines, hereinafter called the "Jurisdiction", has need of a qualified contractor to complete the work comprising the below referenced improvement. The undersigned Bidder hereby proposes to complete the work comprising the below referenced improvements or project as specified in the contract documents, which are officially on file with the Jurisdiction, in the Des Moines City Engineer's Office, at the prices hereinafter provided in Part C of this Proposal, for the following described improvements:

Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge, 112019009

The improvement includes the reconstruction of a Hot Mix Asphalt (HMA) multi-use trail, Portland Cement Concrete (PCC) sidewalk and sidewalk ramps, drainage improvements, fencing, trail signage, traffic control, grading, site restoration, erosion control, and other associated work and incidental items; all in accordance with the contract documents, including Plan File No. 626-001/044, along the east side of the Des Moines River between Euclid Avenue and the Saylor Creek Bridge north of the city limits, and along the south side of Euclid Avenue between 16th Street and the Des Moines River

PROPOSAL: PART B - ACKNOWLEDGEMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued, and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER __________ ADDENDUM NUMBER __________
ADDENDUM NUMBER __________ ADDENDUM NUMBER __________

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C - BID ITEMS, QUANTITIES AND PRICES

UNIT BID PRICE CONTRACTS: The bidder must provide all unit prices, the amount, the total construction cost, any alternate price(s), and the total construction cost plus any add-alternates if there are alternates on the proposal on Proposal Attachment: Part C - Bid Items, Quantities, and Prices. The total construction cost plus any alternates selected by the Jurisdiction shall be used for comparison of bids. The total construction cost plus any add-alternates shall be used for determining the sufficiency of the bid security.
BASE BID CONTRACTS: The bidder must provide any bid price(s), the total base bid price, any alternate price (s), and the total base bid plus any add-alternates if there are alternates on the proposal on Proposal Attachment: Part C - Bid Items, Quantities, and Prices. The total base bid plus any alternates selected by the Jurisdiction shall be used for comparison of bids. The total base bid plus any add-alternates shall be used for determining the sufficiency of the bid security.

PROPOSAL: PART D - GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project, reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive bidder; and

2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive bidder to be based on comparison of the total bid plus any selected alternates; and

3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction and provide the following documents:
   - Proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code by providing a valid Registration Number,
   - Proof of insurance by a Certificate(s) of Insurance,
   - A performance, maintenance, and payment bond; and

2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said documents and information as requested in Item 1 above acceptable to the Des Moines City Engineer; and

3. Commence the work on this project on or before a date to be specified in a written notice to proceed by the Jurisdiction, and to fully complete the project not later than September 30, 2022 and in accordance with completion provisions. and to pay liquidated damages for noncompliance with said completion provisions at the rate of Five Hundred and 00/100 ($500.00) for each calendar day thereafter that the work remains incomplete.

PROPOSAL: PART E - NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and

2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and
3. That no part of the bid price received by the Bidder was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and

4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other bidder, and that all statements in this proposal are true; and

5. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F - ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below, which are included in this proposal and identified as proposal attachments:

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<td>General</td>
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</tbody>
</table>
PROPOSAL: PART G - IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an

☐ Individual,
   Sole Proprietorship
☐ Partnership
☐ Corporation
☐ Limited Liability Company
☐ Joint-venture: all parties must join-in and execute all documents
☐ Other

By

Bidder

Signature

Name (Print/Type)

Title

Street Address

City, State, Zip Code

Telephone Number / Email Address

A contract will not be executed until the apparent low Bidder is registered with the Iowa Commissioner of Labor pursuant to Section 91C.5 of the Iowa Code. The Bidder should contact 515-242-5871 for registration information.

Engineering Department Staff will contact the apparent low Bidder and obtain the name and title of the company's owner, president, CEO, etc. if a different person than entered above.

NOTE: The signature on this proposal must be an original signature in ink; copies or facsimile of any signature will not be accepted.
This is a unit bid price contract. The bidder must provide all unit prices, the amount, the total construction cost, any alternate price(s), and the total construction cost plus any add-alternates if there are alternates on the proposal. The total construction cost plus any alternates selected by the Jurisdiction shall be used for comparison of bids. The total construction cost plus any add-alternates shall be used for determining the sufficiency of the bid security.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clearing and Grubbing</td>
<td>UNIT</td>
<td>100.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>2</td>
<td>Clearing and Grubbing</td>
<td>LS</td>
<td>1.00</td>
<td>$_________</td>
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<tr>
<td>3</td>
<td>Topsoil, On-site</td>
<td>CY</td>
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<td>$_________</td>
<td>$_________</td>
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<tr>
<td>4</td>
<td>Topsoil, Compost-amended</td>
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<td>$_________</td>
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<td>Topsoil, Off-site</td>
<td>CY</td>
<td>580.00</td>
<td>$_________</td>
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<tr>
<td>6</td>
<td>Excavation, Class 10</td>
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<td>835.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>7</td>
<td>Removal of Storm Sewer, ≤ 30&quot;</td>
<td>LF</td>
<td>30.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>8</td>
<td>Pipe Culvert, Trenched, CMP, 15&quot;</td>
<td>LF</td>
<td>10.00</td>
<td>$_________</td>
<td>$_________</td>
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<td>9</td>
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<td>$_________</td>
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<td>10</td>
<td>Pipe Culvert, Trenched, CMP, 24&quot;</td>
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<td>20.00</td>
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<td>15</td>
<td>Shared Use Path, HMA Surface, 2&quot;</td>
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<td>16</td>
<td>Asphalt Emulsion for Fog Seal (Pavement)</td>
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<td>700.00</td>
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<td>$_________</td>
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<td>17</td>
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<td>$_________</td>
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<td>$_________</td>
<td>$_________</td>
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<td>19</td>
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<td>1600.00</td>
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<td>$_________</td>
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<tr>
<td>ITEM</td>
<td>DESCRIPTION</td>
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<td>QUANTITY</td>
<td>UNIT PRICE</td>
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<td>20</td>
<td>Full Depth Reclamation</td>
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<td>21</td>
<td>Mechanical Stabilization Agents</td>
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<td>300.00</td>
<td>$_________</td>
<td>$_________</td>
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<td>22</td>
<td>Chemical Stabilization Agents, Cement</td>
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<td>$_________</td>
<td>$_________</td>
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<td>$_________</td>
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<td>24</td>
<td>* Hydraulic Seeding, Fertilizing, and Mulching, Type 1 Mix (Permanent Lawn Mixture)</td>
<td>AC</td>
<td>1.50</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>25</td>
<td>* Hydraulic Seeding and Mulching, Mesic Prairie Pollinator Mix (Modified)</td>
<td>AC</td>
<td>0.75</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>26</td>
<td>* Watering</td>
<td>GAL</td>
<td>20000.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>27</td>
<td>* Stormwater Pollution Prevention Plan (SWPPP)</td>
<td>LS</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>28</td>
<td>* Filter Sock, 12&quot;</td>
<td>LF</td>
<td>5000.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>29</td>
<td>* Filter Socks, Removal</td>
<td>LF</td>
<td>5000.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>30</td>
<td>* Temporary RECP, Type 1</td>
<td>SY</td>
<td>1000.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>31</td>
<td>Rip Rap, Class D and Class E Revetment</td>
<td>TON</td>
<td>100.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>32</td>
<td>* Stabilized Construction Entrance</td>
<td>TON</td>
<td>50.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>33</td>
<td>* Erosion Control Mulching, Hydromulching</td>
<td>AC</td>
<td>2.50</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>34</td>
<td>Chain Link Fence, Black PVC-coated, 6' Height</td>
<td>LF</td>
<td>1785.00</td>
<td>$_________</td>
<td>$_________</td>
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<td>35</td>
<td>Gates, 12' Wide, Double Swing, 6' Height</td>
<td>EA</td>
<td>3.00</td>
<td>$_________</td>
<td>$_________</td>
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<td>36</td>
<td>* Removal of Fence</td>
<td>LF</td>
<td>1785.00</td>
<td>$_________</td>
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<tr>
<td>37</td>
<td>* Mobilization</td>
<td>LS</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>38</td>
<td>Bike Counter</td>
<td>EA</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>39</td>
<td>Bike Repair Fixit &amp; Air Kit Station</td>
<td>EA</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>40</td>
<td>Information Panel</td>
<td>EA</td>
<td>1.00</td>
<td>$_________</td>
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<tr>
<td>41</td>
<td>Bench</td>
<td>EA</td>
<td>2.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>ITEM</td>
<td>DESCRIPTION</td>
<td>UNITS</td>
<td>ESTIMATED QUANTITY</td>
<td>UNIT PRICE</td>
<td>AMOUNT</td>
</tr>
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<tr>
<td>42</td>
<td>Flexible Post, 48&quot; Height, White</td>
<td>EA</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>43</td>
<td>Relocate Ding Darling Sign</td>
<td>LS</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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</table>

**SUBTOTAL DIVISION 1 = $_________**

**DIVISION 2 - EUCLID AVE SIDEWALK IMPROVEMENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
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<tr>
<td>44</td>
<td>Intake Adjustment, Minor, ADA Grate</td>
<td>EA</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>45</td>
<td>Manhole Adjustment, Minor</td>
<td>EA</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>46</td>
<td>Curb and Gutter, 16&quot; (Width), 6&quot; (Thickness)</td>
<td>LF</td>
<td>200.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>47</td>
<td>* Removal of Sidewalk and Driveway</td>
<td>SY</td>
<td>550.00</td>
<td>$_________</td>
<td>$_________</td>
</tr>
<tr>
<td>48</td>
<td>Sidewalk, PCC, 4&quot;</td>
<td>SY</td>
<td>600.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>49</td>
<td>Sidewalk, PCC, 6&quot;</td>
<td>SY</td>
<td>300.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>50</td>
<td>Detectable Warning</td>
<td>SF</td>
<td>10.00</td>
<td>$_________</td>
<td>$_________</td>
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<td>51</td>
<td>Driveway, Paved, PCC, 6&quot;</td>
<td>SY</td>
<td>430.00</td>
<td>$_________</td>
<td>$_________</td>
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<tr>
<td>52</td>
<td>* Temporary Traffic Control</td>
<td>LS</td>
<td>1.00</td>
<td>$_________</td>
<td>$_________</td>
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<td>53</td>
<td>* Hydraulic Seeding, Fertilizing, and Mulching, Type 1 Mix (Permanent Lawn Mixture)</td>
<td>AC</td>
<td>1.50</td>
<td>$_________</td>
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<tr>
<td>54</td>
<td>* Concrete Washout</td>
<td>LS</td>
<td>1.00</td>
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<td>$_________</td>
</tr>
</tbody>
</table>

**SUBTOTAL DIVISION 2 = $_________**

**TOTAL CONSTRUCTION COST (SUBTOTAL DIVISION 1 + SUBTOTAL DIVISION 2) = $_________**

*Item does not have to be included in 4-year maintenance bond but shall be covered by a 1-year maintenance bond.

**NOTE:** It is understood that the above quantities are estimated for the purpose of this bid. All quantities are subject to revision by the City. Quantity changes which amount to twenty (20) percent or less of the total bid shall not affect the unit bid price of that item.
PROPOSAL ATTACHMENT: PART F - ADDITIONAL REQUIREMENTS
ITEM 1 - RECIPROCAL RESIDENT BIDDER AND LABOR FORCE

Iowa Code section 73A.21 provides for a Reciprocal Resident Bidder and Labor Force preference.

Because of the nature of this project (i.e. Federal-aid participation), the Reciprocal Resident Bidder and Labor Force preference,

☐ shall not apply to this project, and the bidder need not complete the Resident Bidder Information below.

☒ shall apply to this project, and the bidder shall complete the Resident Bidder Information below.

To implement section 73A.21, the Iowa Labor Commissioner adopted chapter 156 of the Iowa Administrative Code, "Bidder Preferences in Government Contracting". Iowa Admin. Code rule 875-156.2(1) requires each bidder to complete the attached Bidder Status Form. The Bidder must complete and submit the Bidder Status Form, signed by an authorized representative of the bidder, with their bid Proposal. Under Iowa Admin. Code rule 875-156.2(1), failure to provide the statement with the bid may result in the bid being deemed nonresponsive and may result in the bid being rejected.
Bidder Status Form

To be completed by all bidders

Part A

Please answer "Yes" or "No" for each of the following:

Yes____ No_____ My company is authorized to transact business in Iowa.

(To help you determine if your company is authorized, please review the "Worksheet: Authorization to Transact Business", on page 3 of the "Instructions to Bidders").

Yes____ No_____ My company has an office to transact business in Iowa.

Yes____ No_____ My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.

Yes____ No_____ My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

Yes____ No_____ My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a nonresident bidder. Please complete Parts C and D of this form.

Part B

To be completed by resident bidders

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: _____________________________

City, State, Zip: _____________________________

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: _____________________________

City, State, Zip: _____________________________

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: _____________________________

City, State, Zip: _____________________________

You may attach additional sheet(s) if needed.

Part C

To be completed by non-resident bidders

1. Name of home state or foreign country reported to the Iowa Secretary of State:

2. Does your company's home state or foreign country offer preferences to bidders who are residents? Yes__ No__

3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

Part D

To be completed by all bidders

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name:

Signature: _____________________________ Date: _____________________________

You must submit the completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156.

This form has been approved by the Iowa Labor Commissioner. 309-6001 02-14
PROPOSAL ATTACHMENT: PART F - ADDITIONAL REQUIREMENTS

ITEM 2 - GENERAL

1. The work under this proposal shall be constructed in accordance with the SUDAS Standard Specifications, 2021 Edition, and as further modified by the supplemental specifications and special provisions included in the contract documents.

Alternate Sales Tax:
Section 1026, 1.08, B, of the Supplemental Specifications shall apply. The bidder should not include sales tax in the bid. A sales tax exemption certificate will be available for all material purchased for incorporation in the project.

2. The Bidder hereby acknowledges that the City of Des Moines in advertising for public bids for this work reserves the right to give a limited notice to proceed of a duration not longer than three months. This limited notice to proceed shall be given where all necessary right-of-way has not yet been acquired. The limited notice to proceed will allow construction to proceed as far as possible and practical on the right-of-way, which has been acquired.

3. The Bidder hereby acknowledges and agrees:
   • To comply with the Equal Employment Opportunity Program included in the City of Des Moines Contract Compliance Program, which is available at the following website <http://www.dmgov.org/Departments/Engineering/PDF/Contract%20Compliance%20Program%20(June%202017).pdf>, or from the City Engineer’s Office.
   • To comply with any and all applicable provisions of the Des Moines Human Rights Ordinance, Chapter 62, of the Des Moines Municipal Code.
   • Not to discriminate against any employees, or applicants for employment, on the basis of age, race, religion, creed, color, sex, sexual orientation, national origin, ancestry, disability, familial status or gender identity.
   • To include this provision in all subcontracts for this project.

4. The City’s Overall Annual DBE/TSB Goal for calendar year 2021 is 6.03%, which represents a target that the City would like to achieve in including DBE/TSB participation on City contracts; and is not a mandatory goal for this project. The Certified Directory of DBEs is available at the following website <https://secure.iowadot.gov/DBE/Directory/Index/>. The Certified Directory of TSBs is available at the following website <https://iowaeda.dynamics365portals.us/tsb-search/>.

PROPOSAL ATTACHMENT: PART F - ADDITIONAL REQUIREMENTS

ITEM 3 - COMPLETION PROVISIONS

The bidder hereby agrees to commence and complete the work in accordance with the attached Completion Provisions.
PROPOSAL ATTACHMENT: PART F – ADDITIONAL REQUIREMENTS
ITEM 3 – COMPLETION PROVISIONS

The Bidder hereby agrees to:

1. Commence the work on the project on or after the date a written Notice to Proceed is issued by the City and to fully complete the project by September 30, 2022; and to pay liquidated damages for noncompliance with said completion provision in the amount of five hundred and no/100 dollars ($500.00) for each calendar day thereafter.

2. Complete work in compliance with the intermediate completion period as described below.

   Trail Closure Intermediate Completion Provision:

   The contractor shall have the trail closed to the public for no more than Seventy-Five (75) Calendar Days. Complete all work requiring full trail closure within the time specified; and pay liquidated damages for noncompliance with said completion provision in the amount of one thousand and no/100 dollars ($1,000.00) for each calendar day thereafter.

3. Pay separate sums of liquidated damages that will be assessed for each of the conditions described hereinafter, and they shall be cumulative if multiple conditions have not been satisfied.
BID BOND

KNOW ALL BY THESE PRESENTS:

That we, ___________________________________________, as Principal, and ___________________________________________, as Surety, are held and firmly bound unto the City of Des Moines, as Obligee (hereinafter the "Jurisdiction"), in the penal sum of ___________________________________________ dollars ($________________) lawful money of the United States, for which payment the Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The Principal has submitted to the Jurisdiction a proposal to enter into a contract in writing, for the following described improvements:

Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge , 112019009

The improvement includes the reconstruction of a Hot Mix Asphalt (HMA) multi-use trail, Portland Cement Concrete (PCC) sidewalk and sidewalk ramps, drainage improvements, fencing, trail signage, traffic control, grading, site restoration, erosion control, and other associated work and incidental items; all in accordance with the contract documents, including Plan File No. 626-001/044, along the east side of the Des Moines River between Euclid Avenue and the Saylor Creek Bridge north of the city limits, and along the south side of Euclid Avenue between 16th Street and the Des Moines River.

The Surety hereby stipulates and agrees that the obligations of the Surety and its Bond will be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept the Bid or execute a Contract; and the Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue will be Polk County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of this bond or to collect the monetary obligation accruing to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all outlay and expense incurred by the Jurisdiction in enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction are cumulative and not alternative and are in addition to all rights, powers and remedies given to the Jurisdiction by law. The Jurisdiction may proceed against the Surety for any amount guaranteed hereunder whether action is brought against Principal or whether or not the Principal is joined in the action. As used herein, the phrase "all outlay and expense" is not to be limited in any way, but includes the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits and overhead where applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employer expense, outside experts, attorneys fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction.
If the proposal by the Principal is accepted and the Principal enters into a contract with the Jurisdiction in accordance with the terms of the proposal, including the provision of insurance and bond as specified in the contract documents with good and sufficient surety for the faithful performance of the contract, for the prompt payment of labor and material furnished in the prosecution of the work, and for the maintenance of the improvements as may be required in the contract documents or, in the event the Principal does not enter into a contract and provide the required insurance and bonds, the Principal pays the penal sum to the Jurisdiction, then this obligation will become null and void; otherwise, the Surety shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this __________ day of ______________________, 20_____

<table>
<thead>
<tr>
<th>SURETY:</th>
<th>PRINCIPAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surety Company</td>
<td>Bidder</td>
</tr>
<tr>
<td>By</td>
<td>By</td>
</tr>
<tr>
<td>Signature Attorney-in-Fact/Officer</td>
<td>Signature</td>
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<tr>
<td>Name of Attorney-in-Fact/Officer</td>
<td>Name</td>
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<td>Company Name</td>
<td>Title</td>
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<td>Company Address</td>
<td>Address</td>
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<td>City, State Zip Code</td>
</tr>
<tr>
<td>Company Telephone Number</td>
<td>Telephone Number</td>
</tr>
</tbody>
</table>

NOTE:

1. All signatures on this bid bond must be original signatures in ink; copies or facsimile of any signature will not be accepted.

2. This bond must be sealed with the Surety's raised, embossed seal.

3. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal or security watermark.

4. The name and signature of the Surety's Attorney-in-Fact/Officer entered on this bond must be exactly as listed on the Certificate or Power of Attorney accompanying this bond.
CONTRACT

THIS CONTRACT, made and entered into at Des Moines, Iowa, on ______________, by and between the City of Des Moines, by its Mayor, upon order of its City Council, hereinafter the "Jurisdiction", and ______________, hereinafter the "Contractor".

WITNESSETH:

The Contractor hereby agrees to complete the work comprising the below referenced improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the Des Moines City Engineer's Office. This contract includes all contract documents. The work under this contract shall be constructed in accordance with the SUDAS Standard Specifications, 2021 Edition; and as further modified by the supplemental specifications and special provisions included in said contract documents, and the Contract Attachments attached hereto. The Des Moines City Engineer is the Engineer. The Contractor further agrees to complete the work in strict accordance with said contract documents, and to guarantee the work as required by law, for the time required in said contract documents, after its acceptance by the Jurisdiction.

This contract is awarded and executed for completion of the work specified in the contract documents for the bid prices shown on the Contract Attachment: Item 2: Bid Items, Quantities and Prices which were proposed by the Contractor in its proposal submitted in accordance with the Notice to Bidders for the following described improvements:

Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge , 112019009
The improvement includes the reconstruction of a Hot Mix Asphalt (HMA) multi-use trail, Portland Cement Concrete (PCC) sidewalk and sidewalk ramps, drainage improvements, fencing, trail signage, traffic control, grading, site restoration, erosion control, and other associated work and incidental items; all in accordance with the contract documents, including Plan File No. 626-001/044, along the east side of the Des Moines River between Euclid Avenue and the Saylor Creek Bridge north of the city limits, and along the south side of Euclid Avenue between 16th Street and the Des Moines River.

The Contractor agrees to perform said work for and in consideration of the Jurisdiction's payment of the bid amount of ____________________________ dollars ($__________________________), which amount shall constitute the required amount of the performance, payment, and maintenance bond. The Contractor hereby agrees to commence work under this contract on or before a date to be specified in a written notice to proceed by the Jurisdiction and to fully complete the project not later than September 30, 2022 and in accordance with completion provisions; and to pay liquidated damages for non-compliance with completion provision in the amount of Five Hundred and 00/100 dollars ($500.00), for each calendar day thereafter that the work remains incomplete.
IN WITNESS WHEREOF, the Parties hereto have executed this instrument, in triplicate on the date first shown written.

JURISDICTION:

By ____________________________________________

T. M. Franklin Cowrie, Mayor

(Seal)

ATTEST:

_______________________________________________

P. Kay Cmelik, City Clerk

FORM APPROVED BY:

_______________________________________________

Kathleen Vanderpool, Deputy City Attorney

CONTRACTOR:

By ____________________________________________

Contractor

_______________________________________________

Signature

Title

_______________________________________________

Street Address

_______________________________________________

City, State - Zip Code

_______________________________________________

Telephone Number / Email Address

CONTRACTOR PUBLIC REGISTRATION INFORMATION To Be Provided By:

1. **All Contractors:** The Contractor's Public Registration Number, issued by the Iowa Commissioner of Labor pursuant to Section 91C.5 of the Iowa Code, is as follows:
   Number

2. **Out-of-State Contractors:**
   
   A. Pursuant to Section 91C.7 of the Iowa Code, an out-of-state contractor, before commencing a contract in excess of five thousand dollars in value in Iowa, shall file a bond with the division of labor services of the department of workforce development. The contractor should contact 515-242-5871 for further information. Prior to contract execution, the City Engineer may forward a copy of this contract to the Iowa Department of Workforce Development as notification of pending construction work. It is the contractor's responsibility to comply with said Section 91C.7 before commencing this work.

   B. Prior to entering into contract, the designated low bidder, if it be a corporation organized under the laws of a state other than Iowa, shall file with the Engineer a certificate from the Secretary of the State of Iowa showing that it has complied with all the provisions of Chapter 490 of the Code of Iowa, or as amended, governing foreign corporations. For further information contact the Iowa Secretary of State Office at 515-281-5204.

**NOTE:** All signatures on this contract must be original signatures in ink: copies or facsimile of any signature will not be accepted.
CORPORATE ACKNOWLEDGEMENT

State of ____________________________ ) SS
___________________________ County )

On this __________ day of ____________, 20 ____, before me, the undersigned, a Notary Public in and for the State of ____________, personally appeared ______________________ and ______________________, to me known, who, being by me duly sworn, did say that they are the ______________________ and ______________________, respectively, of the corporation executing the foregoing instrument; that (no seal has been procured by) (the seal affixed thereto is the seal of) the corporation; that said instrument was signed (and sealed) on behalf of the corporation by authority of this Board of Directors; and ______________________ acknowledged the execution of the instrument to be the voluntary act and deed of the corporation, by it and by them voluntarily executed.

________________________________________
Notary Public in and for the State ________________
My commission expires ________________
1. The Contractor acknowledges and agrees:
   • To comply with the Equal Employment Opportunity Program included in the City of Des Moines Contract Compliance Program, which is available at the following website <http://www.dmgov.org/Departments/Engineering/PDF/Contract%20Compliance%20Program%20(June%202017).pdf> or from the City Engineer’s Office.
   • To comply with any and all applicable provisions of the Des Moines Human Rights Ordinance, Chapter 62, of the Des Moines Municipal Code.
   • Not to discriminate against any employees, or applicants for employment, on the basis of age, race, religion, creed, color, sex, sexual orientation, national origin, ancestry, disability, familial status or gender identity.
   • To include this provision in all subcontracts for this project.

2. The Contractor agrees to comply with the requirements of the City of Des Moines Contract Compliance Program as referenced in the proposal. Final acceptance of the project will not be made until the Contractor has submitted to the City Engineer a notarized summary of payments to and scope of work by all DBE/TSB subcontractors.

3. The City of Des Moines Master Construction Safety Packet (Safety Plan) is available at <http://www.dmgov.org/Departments/Engineering/PDF/MasterConstructionSafetyPacket.pdf> and is also available upon request from the Engineering Department. The Engineering Department will make available a copy of the City of Des Moines Safety Plan to the Contractor when the contract is awarded. The Contractor understands and agrees that said Safety Plan is for the Contractor’s information only and that it is the Contractor’s sole responsibility to provide, or make available, this safety information to all its Subcontractors.

4. The Contractor understands and agrees that the construction of the work included in this contract is by its nature dangerous work. The Contractor agrees:
   • That the Contractor should have a safety program; however, the Contractor need not submit a safety program to the City of Des Moines, and City of Des Moines staff will not review or approve the Contractor’s safety program. The City of Des Moines assumes that the Contractor will maintain a safe worksite; however, City of Des Moines staff will not intrude in the Contractor’s responsibility for safety issues.
   • That until the work is accepted by the Jurisdiction; the work shall be in the custody of and under the charge, care, and control of the Contractor.
   • That the Contractor is responsible for the project area or work site.
   • That the Contractor is solely responsible for the safety of everyone on its work site.
   • That it is the Contractor's sole responsibility to provide as safe a working site as possible given the nature of the work.
   • That it is the Contractor’s responsibility to notify and advise its employees, subcontractors, suppliers, and everyone on the worksite of the dangers associated with the work, and provide them with appropriate safety information to protect them from those dangers.

5. The Contractor acknowledges and agrees that no contract shall be binding upon the City of Des Moines until said contract has been executed by the Bidder, and shall have been approved by the City Council and executed by the Mayor and attested to by the City Clerk.
6. The Contractor agrees that sixty (60) days shall constitute a reasonable time within which it shall be required to make progress payments or final payment to subcontractors after each subcontractor's satisfactory performance of its work, all as required by Section 573.12 2.b.(2) of the Code of Iowa.
This contract is awarded and executed for completion of the work specified in the contract documents for the bid price tabulated below as proposed by the contractor in its proposal submitted in accordance with notice to bidders and notice of public hearing. All quantities are subject to revision by the Jurisdiction. Quantity changes which amount to twenty (20) percent or less of the amount bid shall not affect the unit bid price of that item.

Activity ID 11-2019-009

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
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<th>UNIT PRICE</th>
<th>AMOUNT</th>
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<td>Excavation, Class 10</td>
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<td>Removal of Storm Sewer, ≤ 30&quot;</td>
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<td>Asphalt Emulsion for Fog Seal (Pavement)</td>
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<td>Bench Pad, PCC, 5&quot;</td>
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<td>Subbase Over-excavation</td>
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<td>Microcracking</td>
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<td>AC</td>
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<td>* Hydraulic Seeding and Mulching Mesic Prairie Pollinator Mix (Modified)</td>
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<td>* Watering</td>
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<td>* Stormwater Pollution Prevention Plan (SWPPP)</td>
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<td>* Filter Socks, Removal</td>
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<td>* Temporary RRSP, Type 1</td>
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<td>31</td>
<td>Rip Rap, Class D and Class E Eventment</td>
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<td>* Erosion Control Mulching, Hydromulching</td>
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<td>* Mobilization</td>
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<td>Bike Repair Fixt &amp; Air Kit Station</td>
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<td>43</td>
<td>Relocate Ding Darling Sign</td>
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**SUBTOTAL DIVISION 1 = $__________**

**DIVISION 2 - EUCLID AVE SIDEWALK IMPROVEMENTS**

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<td>45</td>
<td>Manhole Adjustment, Minor</td>
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<td>46</td>
<td>Curb and Gutter, 18&quot; (Width), 8&quot; (Thickness)</td>
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<td>47</td>
<td>* Removal of Sidewalk and Driveway</td>
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<td>48</td>
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<tr>
<td>50</td>
<td>Detectable Warning</td>
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<td>51</td>
<td>Driveway, Paved, PCC, 6&quot;</td>
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<td>433.00</td>
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<td>52</td>
<td>* Temporary Traffic Control</td>
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<tr>
<td>53</td>
<td>* Hydraulic Seeding, Fertilizing, and Mulching, Type 1 Mix (Permanent Lawn Mixture)</td>
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<td>1.50</td>
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<tr>
<td>54</td>
<td>* Concrete Washout</td>
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</table>

**SUBTOTAL DIVISION 2 = $__________**

**TOTAL CONSTRUCTION COST (SUBTOTAL DIVISION 1 + SUBTOTAL DIVISION 2) $__________**

*Item does not have to be included in 4-year maintenance bond but shall be covered by a 1-year maintenance bond.

**NOTE:** It is understood that the above quantities are estimated for the purpose of this bid. All quantities are subject to revision by the City. Quantity changes which amount to twenty (20) percent or less of the total bid shall not affect the unit bid price of that item.
CONTRACT ATTACHMENT: ITEM 3 – COMPLETION PROVISIONS

The Contractor hereby agrees to:

1. Commence the work on the project on or after the date a written Notice to Proceed is issued by the City and to fully complete the project by September 30, 2022; and to pay liquidated damages for noncompliance with said completion provision in the amount of five hundred and no/100 dollars ($500.00) for each calendar day thereafter.

2. Complete work in compliance with the intermediate completion period as described below.

   Trail Closure Intermediate Completion Provision:

   The contractor shall have the trail closed to the public for no more than Seventy-Five (75) Calendar Days. Complete all work requiring full trail closure within the time specified; and pay liquidated damages for noncompliance with said completion provision in the amount of one thousand and no/100 dollars ($1,000.00) for each calendar day thereafter.

3. Pay separate sums of liquidated damages that will be assessed for each of the conditions described hereintofore, and they shall be cumulative if multiple conditions have not been satisfied.
PERFORMANCE, PAYMENT & MAINTENANCE BOND

KNOW ALL BY THESE PRESENTS:

That we, ________________________________, as Principal (the "Contractor" or "Principal"), and ________________________________, as Surety, are held and firmly bound unto the City of Des Moines, as Obligee (the "Jurisdiction"), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of ________________________________ dollars ($_____________________), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly and severally, firmly by these presents.

The conditions of the above obligations are such that whereas the Contractor entered into a contract with the Jurisdiction, bearing the date of ________________, (the "Contract") wherein the Contractor undertakes and agrees to construct the following described improvements:

Neal Smith Trail Rehabilitation - Euclid Avenue to Saylor Creek Bridge, 112019009

The improvement includes the reconstruction of a Hot Mix Asphalt (HMA) multi-use trail, Portland Cement Concrete (PCC) sidewalk and sidewalk ramps, drainage improvements, fencing, trail signage, traffic control, grading, site restoration, erosion control, and other associated work and incidental items; all in accordance with the contract documents, including Plan File No. 626-001/044, along the east side of the Des Moines River between Euclid Avenue and the Saylor Creek Bridge north of the city limits, and along the south side of Euclid Avenue between 16th Street and the Des Moines River

and to faithfully perform all the terms and requirements of the Contract within the time specified, in a good and workmanlike manner, and in accordance with the Contract Documents. Provided however, that one year after the date of acceptance by the Jurisdiction as complete, of the work under the above referenced Contract, the maintenance portion of this Bond shall continue in force but the penal sum for maintenance shall be reduced to ________________________________ dollars ($_____________________), which is the cost associated with those items shown on the Proposal and in the Contract which require a maintenance bond period in excess of one year.

It is expressly understood and agreed by the Contractor and Surety that the following provisions are a part of this Bond and are binding upon the Contractor and Surety, to-wit:

1. PERFORMANCE: The Contractor shall well and faithfully observe, perform, fulfill and abide by each and every covenant, condition and part of the Contract and Contract Documents, by reference made a part hereof, and shall indemnify and save harmless the Jurisdiction from all outlay and expense incurred by the Jurisdiction by reason of the Contractor's default or failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.
2. **PAYMENT:** The Contractor and Surety on this bond hereby agree to pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price which the Jurisdiction is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable unless the claims have been established as provided by law. The Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Iowa Code Chapter 573.

3. **MAINTENANCE:** The Contractor and the Surety shall, at their own expense:

   A. Remedy any and all defects that may develop in or result from work to be performed under the Contract within the period of four (4) year(s) from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of the work;

   B. Keep all work in continuous good repair; and

   C. Pay the Jurisdiction's reasonable costs of monitoring and inspecting to assure that any defects are remedied, and to repay the Jurisdiction all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.

Contractor's and Surety's obligation extends to defects in workmanship or materials not discovered or known to the Jurisdiction at the time the work was accepted.

4. **GENERAL:** Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

   A. To consent without notice to any extension of time to the Contractor in which to perform the Contract;

   B. To consent without notice to any change in the Contract or Contract Documents, that increases the total contract price and the penal sum of this bond, provided that all such changes do not, in the aggregate, involve an increase of more than twenty percent of the total contract price, and that this Bond shall then be released as to such excess increase; and

   C. To consent without notice that this Bond shall remain in full force and effect until the contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and liquidated damages are being charged against the Contractor.

5. The Contractor and every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

   A. That no provision of this Bond or of any other contract shall be valid which limits to less than five years after the acceptance of the work under the Contract the right to sue on this Bond.
B. That as used herein, the phrase "all outlay and expense" is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits and overhead as applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorneys fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction. It is intended the Contractor and Surety will defend and indemnify the Jurisdiction on all claims made against the Jurisdiction on account of Contractor's failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Jurisdiction will be fully indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

C. In the event the Jurisdiction incurs any "outlay and expense" in defending itself with respect to any claim as to which the Contractor or Surety should have provided the defense, or in the enforcement of the promises given by the Contractor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Contractor and Surety in this Bond, the Contractor and Surety agree that they will make the Jurisdiction whole for all such outlay and expense, provided that the Surety's obligation under this Bond shall not exceed 125% of the penal sum of this Bond.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction to enforce the provisions of this Bond or to collect the monetary obligation accruing to the benefit of the Jurisdiction, the Contractor and Surety agree, jointly and severally, to pay the Jurisdiction all outlay and expense incurred by the Jurisdiction. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against the Surety for any amount guaranteed hereunder whether action is brought against the Contractor or whether or not the Contractor is joined in the action.

NOW THEREFORE, the condition of this obligation is such that if the Principal shall faithfully perform all of the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

When a word, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.
Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

Witness our hands, in triplicate, this __________ day of ________________________, 20______

PRINCIPAL:

__________________________
Contractor

By _________________________
Signature

__________________________
Title

FORM APPROVED BY:

__________________________
Kathleen Vanderpool
Deputy City Attorney

SURETY:

__________________________
Surety Company

By _________________________
Signature Attorney-in-Fact/Officer

__________________________
Name of Attorney-in-Fact/Officer

__________________________
Company Name

__________________________
Company Address

__________________________
City, State Zip Code

__________________________
Company Telephone Number

NOTE:

1. All signatures on this performance, payment & maintenance bond must be original signatures in ink; copies or facsimile of any signature will not be accepted.

2. This bond must be sealed with the Surety’s raised, embossed seal.

3. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety’s raised, embossing seal.

4. The name and signature of the Surety's Attorney-in-Fact/Officer entered on this bond must be exactly as listed on the Certificate or Power of Attorney accompanying this bond.

5. This bond form must be utilized as printed; no additions/deletions/alterations are permitted, other than providing the required information.
ENGINEERING DEPARTMENT
CITY OF DES MOINES, IOWA

SPECIAL PROVISION
BIDDING REQUIREMENTS
ON
NEAL SMITH TRAIL REHABILITATION
EUCLID AVENUE TO SAYLOR CREEK BRIDGE

ACTIVITY ID 11-2019-009

1) AWARD OF CONTRACT

The apparent low Bidder on this project will be required to furnish executed contract; Performance, Payment, and Maintenance Bond; Certificate of Insurance; and NPDES Certification Statements, if required, in substantial compliance with the contract documents to the Engineering Department before 12:00 noon on Friday, February 18, 2022. Completed documents in accordance with the contract documents and acceptable to the City of Des Moines Engineering and Legal Departments will be presented to the City Council for award of this contract on Monday, February 21, 2022. This would allow construction to begin upon issuance of the Notice to Proceed by the City Engineer.

By submission of a bid, the Bidder agrees that if the Bidder fails to furnish said executed contract; Performance, Payment, and Maintenance Bond; Certificate of Insurance; and NPDES Certification Statements, if required, in substantial compliance with the contract documents to the Engineering Department before 12:00 noon on Friday, February 18, 2022; the amount of the Bidder's bid security may become the property of the City and may be retained—not as a penalty but as liquidated damages. The award of the contract may then, at the discretion of the City, be made to the next-lowest responsible Bidder, or the work may be re-advertised or may be constructed by the City in any legal manner. Notice to Proceed will not be issued until the Contractor's insurance is in compliance with the specifications.

The Bidder is reminded that all subcontractors must be approved by the City Council. The Council policy is that subcontractors be approved at the time the contract is awarded, if possible. The Bidder should submit a letter requesting approval of any subcontractors along with the subcontractor's NPDES Certification Statement, if required, at the time its executed contracts are submitted for approval.

2) CONTRACT COMPLIANCE PROGRAM


a. EEO Program – Complaints of discrimination in violation of the Des Moines Human Rights Ordinance, or corresponding state or federal law, should still be filed with the appropriate city, state, or federal agency. If a Contractor is found by one of these agencies to be engaging in illegal discrimination, the Contractor will be in breach of its contract with the City of Des Moines and appropriate action will be taken.
b. DBE/TSB Program: Certification – The City of Des Moines’ program is a DBE/TSB Program whereby both certified DBEs and certified TSBs are equally eligible under the program. All DBEs shall be certified by the Iowa Department of Transportation (IDOT), and the Certified Directory of DBEs is available at the following website https://secure.iwdot.gov/DBE/Directory/Index/.

All TSBs shall be certified by the Iowa Economic Development Authority, and the Certified Directory of TSBs is available at the following website https://iowaeda.microsoftcmportals.com/tsb-search/. The TSB website allows the user to search by name or other keyword. If the user enters the keyword "CONST" in the space next to Service Description and clicks SEARCH, the database will provide a listing of all TSBs that have identified various forms of construction as their type of work. The Directories will not be printed in the contract documents. Copies of the DBE and TSB Directories are available from the Engineering Department upon request.

c. DBE/TSB Program: Annual and Contract Goals – The City’s overall annual DBE/TSB goal will be based on the IDOT DBE overall annual goal established for the corresponding federal fiscal year as further adjusted and established by the Engineering Department to consider such factors as the current capacity of DBEs/TSBs to perform work, differences in the DBE versus TSB market, etc. By utilizing the IDOT overall annual DBE goal as the City’s overall annual DBE/TSB goal, the goal will be independently reviewed annually and updated regarding the availability of the DBEs that are ready, willing, and able to perform work. Many DBEs are also certified as TSBs and the availability is similar. The City’s overall annual DBE/TSB goal represents a target that the City would like to achieve by including DBE/TSB participation on City contracts; and is not a mandatory goal for this project. The Bidder is encouraged to use its best efforts to meet, and if possible exceed, the City’s overall annual DBE/TSB goal.

3) ALTERNATE SALES AND USE TAX

Section 1020, 1.08, B, of the General Supplemental Specifications shall apply to this contract. The Bidder should not include sales tax in the bid pursuant to Iowa Code. A sales tax exemption certificate will be available for all material purchased for incorporation in the project. Complete information on qualifying materials and supplies can be found at www.state.ia.us/tax, the Iowa Department of Revenue and Finance’s (IDRF) web site. Links are found in the Business Taxes and Local Government categories. Contact the IDRF at idrf@idrf.state.ia.us if you have questions on this requirement.
SPECIAL PROVISION
CONTRACTUAL REQUIREMENTS
FOR NPDES PERMIT REQUIREMENTS
ON
NEAL SMITH TRAIL REHABILITATION
EUCLID AVENUE TO SAYLOR CREEK BRIDGE

Activity ID 11-2019-009

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<td>General</td>
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<td>Site Information</td>
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<td>4.</td>
<td>Public Notice of Storm Water Discharge</td>
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<td>5.</td>
<td>NPDES Certification Statement</td>
<td>9-11</td>
</tr>
</tbody>
</table>

1. GENERAL

A. This project is subject to Section 402(b) of the Clean Water Act and Iowa Code Section 455E.174 and Iowa Administrative Code 567-64.4 (projects disturbing one or more total acres) and requires inclusion in the National Pollution Discharge Elimination System (NPDES) General Permit No. 2, or an individual NPDES Permit for stormwater (also storm water) discharge associated with industrial activity for construction activities. All Work shall be in accordance with Section 9040 – Erosion and Sediment Control of the SUDAS Standard Specifications and the General Supplemental Specifications. Measurement for payment shall be in accordance with the General Supplemental Specifications.

B. The City of Des Moines has caused a general Storm Water Pollution Prevention Plan (SWPPP) to be prepared which is included in these contract documents. Said general SWPPP is based upon general construction methods and does not include any information regarding the Contractor’s scheduling or specific construction methods. The Contractor shall be responsible to review said general SWPPP, complete the SWPPP by providing data and/or information as necessary, and propose any revisions necessary for compliance with the General Permit No. 2 based on the Contractor’s proposed scheduling and construction methods. The Contractor will be responsible for the preparation of any modifications to said general SWPPP. If necessary, the Contractor shall be responsible to retain or engage persons knowledgeable in the preparation of a SWPPP. The SWPPP shall be prepared in a manner that complies with all applicable requirements.

C. The City of Des Moines will be responsible for publishing the Public Notice of Storm Water Discharge, as required for General Permit No. 2, and will provide the Contractor with the affidavits of publication for said notices.

D. Except as specifically otherwise stated herein, the Contractor shall be responsible for any and all compliance with erosion control, stormwater discharge, the SWPPP and/or permit requirements regarding same, including all fees. The Contractor shall be the “operator” of the project for all compliance purposes, notwithstanding the status of the City as a co-permittee. The Contractor shall indemnify the City and hold the City harmless from any and all claims, including without limitation penalties, fines, attorney fees, consulting fees, and costs, arising out of the work at this project and/or
the alleged violation of erosion control requirements, stormwater discharge and management, the SWPPP and/or permit requirements regarding same. The Contractor shall take prompt action to address and/or avoid any potential or real violation of same at their own cost.

E. The Contractor shall submit to the Engineer a copy of the Iowa Department of Natural Resources authorization prior to the City’s issuance of the Notice to Proceed for the work.

F. The Contractor shall incorporate all erosion control features into the project at the earliest practicable time, as outlined in the SWPPP or work schedule. Stormwater Pollution Prevention measures shall be constructed at locations shown in the contract documents and as determined by the Contractor, at locations where conditions develop during construction that were unforeseen during design, or where needed to control water pollution that develops during normal construction practices.

G. The Contractor shall coordinate the required site inspections with the Engineer or the Engineers representative so a City Employee can sign the site inspection report. The site inspection shall be distributed to the Prime Contractor to address deficiencies, the City of Des Moines MS4 coordinator, Justin D’Souza, the Engineer, and the Engineer’s representative.

H. The weekly site inspections shall be completed each week in compliance with the Iowa Department of Natural Resources General Permit No. 2. Failure to perform and submit the inspections within the required timeframe will result in a deduction of $750 per calendar day from payment due under the contract, except when Engineer extends such time period.

I. Failure to address the erosion control deficiencies within, 2 calendar days of the completion of the site inspection, will result in a deduction of $750 per calendar day from payment due under the contract, except when Engineer extends such time period.

J. The Engineer may suspend operations, without cost to the City of Des Moines, if the Contractor fails to provide adequate erosion control measures in a timely manner.

2. GENERAL STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. Erosion and Sediment Controls

Erosion and Sediment Controls are measures to be used for controlling erosion and sediment throughout the construction project and include stabilization measures for controlling erosion from disturbed areas and structural controls to divert runoff and remove sediment. Contractor/subcontractor is responsible for the implementation and management of control measures specific to this site. As work progresses, field investigation may indicate additional erosion control measures may be required as determined by the contractor, owner, engineer, city or other governmentally regulated agencies.

1. Stabilization
   a. Preserve existing vegetation in areas not disturbed during construction.
   b. Area of disturbed soil at any one time by construction operations shall be held to a minimum.
   c. Temporary Stabilization - areas where construction activity is not planned to occur for at least 14 days will be stabilized immediately by temporary erosion controls.
      - Topsoil stockpiles and disturbed portions of the site will be stabilized with temporary mulch.
      - Frequent watering during construction in dry weather shall minimize wind erosion from exposed soil.
d. Permanent Stabilization - areas where construction activity has permanently ended will be stabilized immediately upon ceasing construction activities in that area.
   • Permanent seeding and mulch in all areas where final grading is complete.
   • Permanently seed drainage swales immediately upon reaching final grade to facilitate sediment deposition in surface runoff.

e. Vegetative buffer strips
   • Where possible, existing vegetation strips should be left in place to increase infiltration and sediment deposition by reducing runoff velocity.

f. Protection of Trees and Natural Vegetation
   • Undisturbed areas will utilize existing vegetation as a natural buffer zone to increase infiltration and sediment deposition by reducing runoff velocity.

g. Dust Control
   • Utilize mulch or watering of surface to control wind erosion of susceptible soils during and/or immediately after mass site grading operations.

h. Stream Bank Stabilization
   • Stage the installation of any rip rap so that the time that the bank is disturbed is minimized.

2. Structural Controls

a. At all areas where runoff can move offsite, silt fence or approved equal will be installed along the perimeter of the project downstream of disturbing activities. Also protect storm water discharge points prior to site clearing and grading operations as required and/or shown on the plans.

b. Temporary sediment basins provided at the rate of 3,600 cubic feet of storage per acre for disturbed areas over 10 acres. If not attainable, a combination of silt fences, multiple sediment traps, or equivalent sediment controls are required for all side slopes and crown slope boundaries of the disturbed area.

c. Areas of 10 acres or less disturbed will require silt fence, sediment traps or equivalent measures for all side slopes and down slope boundaries of the disturbed area.

d. Silt fences and ditch checks should be installed along concentrated drainage ways to control sediment deposition.

e. Permanently seed all drainage swales immediately upon reaching final grade to facilitate sediment deposition in surface runoff. Use in conjunction with sediment traps, ditch checks, or other control measures to trap sediment.

f. Additional silt fences or other measures may be required on all embankments, stockpiles and other areas to ensure runoff control.

B. Other Controls

Undertake measures for controlling other sources of potential pollution that may exist on the construction site. During the course of construction, it is possible that situations may arise where unknown materials will be encountered. When such situations occur, they will be handled according to all applicable federal, state, and local regulations in effect at the time.

1. Waste materials
   a. Disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

2. Hazardous waste
   a. Hazardous waste materials will be disposed of in accordance with applicable local, state, and/or federal regulations.
b. Equipment refueling and maintenance operations will be carried out in such a manner so as to prevent any spills and contamination to the soil and groundwater.
c. Potentially hazardous materials will be used with great care to prevent spillage in any volume.

3. Sanitary waste
   a. If a portable restroom facility is on the project site, wastes shall be collected and disposed of in complete compliance with local, state and federal regulations. This facility shall be located in an area where contact with the storm water discharge is minimal.

4. Vehicle tracking
   a. Stabilized construction entrances should be installed at all site access points to reduce vehicle tracking of sediment offsite.
   b. Paved streets adjacent to the site shall be inspected daily and cleaned as necessary to remove any excess mud, dirt or rock tracked from the site.
   c. Dump trucks hauling material shall be properly loaded or covered with a tarpaulin to prevent loss of material.
   d. Dust control measures should be utilized as necessary.

5. Non-storm water discharges
   a. Expected sources of non-storm water discharges from the site during construction could include:
      • Potable water sources including water line flushings, irrigation drainage and fire fighting activities.
      • Uncontaminated groundwater from de-watering excavation.
      • Natural springs, wetland, water sources.
   b. Non-storm water discharges should be directed to non-erosive areas prior to discharge offsite.

C. Implementation: State and Local Requirements

1. The storm water pollution prevention plan reflects the State of Iowa requirements for storm water management and erosion and sediment control, as established in 161A.64 Code of Iowa, State of Iowa Statutory Requirements Pertaining to Erosion Control Plans.
2. Prior to initiating a land disturbing activity, a person engaged in land disturbing activity shall file a signed affidavit with the soil and water conservation district that the project will not exceed the soil loss limits.
3. All work shall be done in accordance with Division 9 of the SUDAS Standard Specifications as referenced in the contract.
4. Code Compliance: The Contractor shall comply with the soil erosion control requirements of the Iowa Code, the Iowa DNR NPDES permit and all local ordinances.

D. Implementation: Timing of Controls/Measures

1. Install down-slope and side-slope perimeter silt fence prior to commencing land-disturbing activity.
2. Install construction entrance and vehicle tracking controls.
3. Construct sediment basins, ditch checks, or other erosion control measures at storm water discharge points.
4. Do not disturb an area until necessary for construction to proceed.
5. Install interior silt fences, sediment traps, etc. as grading progresses.
6. Cover or stabilize disturbed areas immediately after ceasing construction for more than 14 days.
7. Construct riprap aprons at storm outlets and creek crossings that are disturbed by the construction.
8. Place swale control measures (erosion control mats, silt traps, ditch checks, seed & mulch) in drainage ways as soon as final grades are achieved.

9. As areas reach their final grade, provide additional silt fence, sediment traps, earthen dikes, and ditch checks as necessary.

10. Complete permanent stabilization seeding as soon as possible after work is complete.

11. Remove temporary sediment controls and accumulated sediment once entire site is stabilized. Re-seed any areas disturbed during removal.

E. Hazardous substance spill prevention and response

1. The Contractor is responsible for training all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or wastes will be allowed to come into contact with storm water discharges. If contact does occur, the storm water discharge will be confined onsite until appropriate measures in compliance with all federal, state, and local regulations are followed to dispose of the hazardous substance.

2. In addition to good housekeeping and material management practices, the following practices shall be done by the Contractor to minimize the potential for hazardous material spills and to reduce the risk of the spill coming in contact with storm water.
   - Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.
   - Materials and equipment necessary for spill control, containment and cleanup will be provided onsite in a material storage area.

3. In the event of a spill, the following procedures will be followed by the Contractor:
   - All spills will be cleaned up immediately following discovery.
   - The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substance.
   - Spill of toxic or hazardous material will be reported to the appropriate state or local governmental agency and to the project manager and engineer, regardless of the size of the spill.

4. In the event the construction site has a release of a hazardous substance or oil in an amount which exceeds a reportable quantity (RQ) as defined at 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 then the Contractor shall:
   - Have its person in charge of the site at the time of the spill immediately call the EPA National Response Center to report the spill (800-424-8802, or 202-426-2675).
   - Modify the Pollution Prevention Plan accordingly within 14 days of the spill including the items mentioned below.
   - Within 14 days of the release, submit a written description of the release including: a description of the release, type of material, estimated amount of spill, date of release, explanation of why the spill happened, and a description of the steps taken to prevent and control future releases.

F. Materials Management

Site sources of pollution generated as a result of this work related to silts and sediment which may be transported as a result of a storm event. However, this SWPPP provides conveyance for other (non-project related) operations. These other operations have storm water runoff, the regulation of which is beyond the control of this SWPPP.

1. Materials or substances expected to be present onsite during construction:
   a. Concrete
b. Detergents
c. Glue
d. Tar
e. Fertilizers
f. Petroleum based additives
g. Wood
h. Solids and construction wastes

2. Material Management Practices – the following is a list of practices that will be used by the Contractor on site to minimize the risk of spills or other accidental exposure of materials and substances to storm water runoff.
a. Good housekeeping
   • An effort will be made to store onsite only enough products required to complete the job.
   • All materials stored onsite will be kept in a neat, orderly manner and in their appropriate containers. If possible, products shall be kept under a roof or other enclosure.
   • Materials will be kept in their original containers with the original manufacturer’s label.
   • Substances will not be mixed with one another unless recommended by the manufacturer.
   • Whenever possible, all of a product will be used up before disposing of the container
   • Manufacturer’s recommendations for proper use and disposal will be followed.
   • The job site superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

b. Hazardous products
   • Products will be kept in their original containers with the original manufacturer’s label.
   • The original labels and material safety data sheets will be kept for each of the materials as they contain important product information.
   • Disposal of any excess product will be done in a manner that follows all manufacturers’, federal, local and state recommended methods for proper disposal.

3. Product Specific Practices – the following is a list of potential sources of pollution and specific practices to be used by the Contractor to reduce pollutant discharges from materials or sources expected to be present during construction.
a. Petroleum Storage Tanks
   • All onsite vehicles shall be inspected and monitored for leaks and receive preventative maintenance to reduce the chance of leakage.
   • Steps will be taken by the Contractor to eliminate contaminants from storage tanks from entering ground soil. Any petroleum storage tanks kept onsite will be located with an impervious surface between the tank and the ground.

b. Fertilizers – shall be applied in the amounts specified. It shall be worked into the soil as to minimize the contact with storm water discharge.

c. Concrete wastes
   • Concrete trucks will be allowed to washout or discharge excess concrete only in specifically designated areas which have been prepared to minimize contact between the concrete and storm water discharge from the site.
   • The hardened product from the concrete washout areas will be disposed of by the Contractor as other non-hazardous waste materials or may be broken up and used on the site for other appropriate uses.

d. Solid and construction wastes – All trash and construction debris shall be collected and disposed of onsite by the Contractor. No construction waste materials will be buried onsite.
### 3. SITE INFORMATION

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Neal Smith Trail Rehabilitation Euclid Avenue to Saylor Creek Bridge</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Location</strong></td>
<td>City of Des Moines, Polk County, Iowa</td>
</tr>
<tr>
<td>(address, lat./long. or</td>
<td>Section 21, 22 &amp; 28, Township 79N, Range 24W</td>
</tr>
<tr>
<td>Section-T-R)</td>
<td></td>
</tr>
<tr>
<td><strong>Owner Name</strong></td>
<td>City of Des Moines</td>
</tr>
<tr>
<td><strong>Representative</strong></td>
<td>Christopher Kuhl</td>
</tr>
<tr>
<td><strong>Owner Address/Phone</strong></td>
<td>Engineering Department</td>
</tr>
<tr>
<td></td>
<td>City Hall - 400 Robert D. Ray Drive</td>
</tr>
<tr>
<td></td>
<td>Des Moines, Iowa</td>
</tr>
<tr>
<td></td>
<td>515-283-4073</td>
</tr>
<tr>
<td><strong>Contractor Name</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Representative</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Contractor Address/Phone</strong></td>
<td></td>
</tr>
</tbody>
</table>

| **Site Area**                | Approximately 3.5 Acres                                               |
| **Disturbed Area**           | Approximately 3.5 Acres                                               |
| **Final Runoff Coefficient** |                                                                        |
| **Soil type / characteristics** | Sandy Clay (CL)                                                  |
| **Receiving Waters**         | Des Moines River                                                      |
| **Description**              | This project or work involves rehabilitation of trail pavement and    |
| (Purpose and types of soil   | includes tree clearing & grabbing, grading, storm water culverts,    |
| disturbing activities)       | subbase construction, paving, seeding and erosion control.            |
| **Expected Sequence of**     |                                                                        |
| **Major Construction**       |                                                                        |
| **Activities to be Completed** | by Contractor (subject to change; any deviations shall be noted on this plan) |
4. PUBLIC NOTICE OF STORM WATER DISCHARGE

The City of Des Moines, or its Contractor for the following work, plans to submit a Notice of Intent to the Iowa Department of Natural Resources to be covered under NPDES General Permit No. 2 “Storm Water Discharge Associated with Industrial Activity for Construction Activities.” The storm water discharge will be from the construction of the Neal Smith Trail Rehabilitation Euclid Avenue to Saylor Creek Bridge, Activity ID 11-2019-009.

located in
  NE ¼ Sec. 28, T79N, R24W, Polk County
  SE ¼ Sec. 21, T79N, R24W, Polk County
  NE ¼ Sec. 21, T79N, R24W, Polk County
  NW ¼ Sec. 22, T79N, R24W, Polk County

Storm water will be discharged from ____ multiple ______ point source and will be discharged to the following stream: _________Des Moines River_________.

Comments may be submitted to the Storm Water Discharge Coordinator, IOWA DEPARTMENT OF NATURAL RESOURCES, Environmental Protection Division, 502 E. 9th Street, Des Moines, IA, 50319-0034. The public may review the Notice of Intent from 8:00 a.m. to 4:30 p.m., Monday through Friday, at the above address after it has been received by the department.

Published in the ______The Des Moines Register______
January 12, 2022
5. NPDES CERTIFICATION STATEMENT

A. This project is subject to Section 402(b) of the Clean Water Act and Iowa Code Section 455B.174 and Iowa Administrative Code 567-64.4 (projects disturbing one or more total acres) and requires inclusion in the National Pollution Discharge Elimination System (NPDES) General Permit No. 2, or an individual NPDES Permit for stormwater (also storm water) discharge associated with industrial activity for construction activities. A general stormwater pollution prevention plan for this project is included in the contract documents. A copy of the stormwater pollution prevention plan must be kept at the construction site from the time construction begins until the site has reached final stabilization. The Contractor must sign the NPDES Certification Statement and submit it with the contract documents. By doing so the Contractor becomes a co-permittee with the City of Des Moines and other co-permittee contractors. The Contractor is solely responsible for the development and implementation of a specific stormwater pollution prevention plan for this project, as necessary and appropriate to comply with the law, and must identify any contracting entity charged with the development and/or implementation of any portion of the stormwater pollution prevention plan. The Contractor is the party responsible for maintaining compliance with the stormwater pollution prevention plan and NPDES Permit for the project.

B. All subcontractors, including short-term contractors and subcontractors, prior to approval, must sign the NPDES Certification Statement before conducting any work at the site. The certification must be signed in accordance with the signatory requirements found in the general permit; i.e., principal executive officer, vice president, general partner, proprietor, elector official, and will be incorporated into the Stormwater Pollution Prevention Plan (SWPPP).

C. Upon signing the certification and to the extent allowed by law, other contractors and sub-contractors become co-permittees with the City of Des Moines, the Contractor, and other co-permittees. In signing the plan, the authorized representative certifies that the information is true and assumes liability for the plan. Note that Section 309 of the Clean Water Act provides for significant penalties where information is false or the permittee violates, either knowingly or negligently, permit requirements.

D. All contractors/subcontractors shall conduct their operations in a manner that minimizes erosion and prevents erosion of sediment from the project site. The Contractor shall be responsible for compliance and implementation of the SWPPP for their entire contract. The Contractor is responsible for the identification, coordination and cooperation of all other contractors and subcontractors whose work is a likely source of potential pollution under the law, the NPDES permit and the SWPPP, and to develop and implement the SWPPP.

E. A copy of the NPDES Certification Statement of the Contractor and all subcontractors shall be filed with the City of Des Moines and shall also become a part of the project SWPPP.
NPDES CERTIFICATION STATEMENT
of Contractor or Subcontractor

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for 'Storm Water Discharge Associated with Industrial Activity for Construction Activities' at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

| Project Description | Neal Smith Trail Rehabilitation  
<table>
<thead>
<tr>
<th></th>
<th>Euclid Avenue to Saylor Creek Bridge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Address</td>
<td>1825 Euclid Ave</td>
</tr>
<tr>
<td>Contractor or Subcontractor</td>
<td></td>
</tr>
<tr>
<td>Name (Print/Type)</td>
<td></td>
</tr>
<tr>
<td>Signature</td>
<td></td>
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<tr>
<td>Title</td>
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</tr>
<tr>
<td>Date</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Activity ID</td>
</tr>
</tbody>
</table>

NOTE:
1) The signature on this certification must be an original signature in ink; copies or facsimile of any signature will not be accepted.
2) The Contractor and all subcontractors must sign the NPDES certification statement and return it to the City Engineer before conducting any work at the site. The certification must be incorporated in the SWPPP.
3) The person who signs this certification for the Contractor or subcontractor shall be:
   a. Corporations. In the case of a corporation, a principal executive officer of at least the level of vice president.
   b. Partnerships. In the case of a partnership, a general partner.
   c. Sole proprietorships. In the case of a sole proprietorship, the proprietor.
CORPORATE ACKNOWLEDGMENT

STATE OF _____________) SS
___________ COUNTY

On this _____ day of _____________, 20 ___, before me, the undersigned, a Notary Public in and for the State of _____________, personally appeared ______________ and ______________, to me known, who, being by me duly sworn, did say that they are the ______________ and ______________, respectively, of the corporation executing the foregoing instrument; that (no seal has been procured by) (the seal affixed thereto is the seal of) the corporation; that said instrument was signed (and sealed) on behalf of the corporation by authority of this Board of Directors; that ______________ and ______________ acknowledged the execution of the instrument to be the voluntary act and deed of the corporation, by it and by them voluntarily executed.

Notary Public in and for the State of _____________
My Commission expires ______________, 20 ___.

PARTNERSHIP ACKNOWLEDGMENT

STATE OF _____________) SS
___________ COUNTY

On this _____ day of _____________, 20 ___, before me, the undersigned, a Notary Public in and for the State of _____________, personally appeared ______________ to me personally known, who being by me duly sworn, did say that the person is one of the partners of ______________, a partnership, and that the instrument was signed on behalf of the partnership by authority of the partners and the partner acknowledged the execution of the instrument to be the voluntary act and deed of the partnership by it and by the partner voluntarily executed.

Notary Public in and for the State of _____________
My commission expires ______________, 20 ___.

LIMITED LIABILITY COMPANY ACKNOWLEDGEMENT

STATE OF _____________) SS
___________ COUNTY

On this _____ day of _____________, 20 ___, before me the undersigned, a Notary Public in and for the State of _____________, personally appeared ______________, to me personally known, who being by me duly sworn did say that person is ______________ of said ______________, that (the seal affixed to said instrument is the seal of said OR no seal has been procured by the said) ______________, and that said instrument was signed and sealed on behalf of the said ______________, by authority of its managers and the said ______________ acknowledged the execution of said instrument to be the voluntary act and deed of said ______________, by its voluntarily executed.

Notary Public in and for the State of _____________
My commission expires ______________, 20 ___.
SPECIAL PROVISION
TECHNICAL SPECIFICATIONS ON

NEAL SMITH TRAIL REHABILITATION
EUCLID AVENUE TO SAYLOR CREEK BRIDGE

ACTIVITY ID: 11-2019-009

INDEX

1. ABANDONED LANDFILL AVOIDANCE

2. PAVEMENT CORES AND SOIL ANALYSIS

3. FULL DEPTH RECLAMATION (FDR) MIX DESIGN
The contractor shall be aware of the buried landfill site adjacent to the project. The exact boundaries of the waste fill limits are not known and will not be clearly marked during construction. The contractor shall take all precaution and shall construct the project in accordance with the lines and grades shown in the construction plans to avoid disturbing any buried wastes. The contractor shall stop all work and immediately contact the project engineer if any buried wastes are discovered during construction.
Attached is a pavement core and soil analysis performed by Construction Materials Testing (CMT) dated April 30, 2020. The information shown in this analysis is for informational purposes only and shall not constitute a basis for any extra work orders.
April 30, 2020

City of Des Moines  
Attn: Mr. Joe Eddy, P.E.  
400 Robert D Ray Drive  
Des Moines, Iowa 50309

Dear Mr. Eddy,

As per your request, CMT has completed obtaining and evaluating the pavement cores and soil underneath from the above referenced project. Per the site plan (attached), 11 cores were taken from various locations along the trail alignment, beginning near Euclid Ave and ending near NW Morningstar Drive. Listed below are the locations and conditions of the cores. Refer to the appendix of this report for pictures of the cores, boring logs and a location map.

<table>
<thead>
<tr>
<th>Core No.</th>
<th>Core Thickness, inches</th>
<th>Subbase Present</th>
<th>Soil Subgrade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4.5 inch HMA</td>
<td>No</td>
<td>CL</td>
</tr>
<tr>
<td>2</td>
<td>4.5 inch HMA</td>
<td>No</td>
<td>CL</td>
</tr>
<tr>
<td>3</td>
<td>4.0 inch HMA</td>
<td>No</td>
<td>CL</td>
</tr>
<tr>
<td>4</td>
<td>4.5 inch HMA</td>
<td>No</td>
<td>CL</td>
</tr>
<tr>
<td>5</td>
<td>3.0 inch HMA</td>
<td>No</td>
<td>CL</td>
</tr>
<tr>
<td>6</td>
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<tr>
<td>7</td>
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<tr>
<td>11</td>
<td>6.0 inch HMA</td>
<td>No</td>
<td>CL</td>
</tr>
</tbody>
</table>

The HMA mix was generally comprised of 1/2 inch mixes, of various thickness, ranging from 3.0 to 6.0 inches per section. The HMA pavement sections averaged approximately 4.0 inches in total thickness. Based on visual observations of the cores, the HMA is performing well, indicating minimal debonding of the layers. The debonding is likely from moisture infiltration into the pavement section from lack of or the presence of minimal subbase (less than one inch). Subbase was not recovered from the soil samples, only minor traces were noted when the core was extracted.

The soil subgrade beneath the cores were generally comprised of fill soils with varying sand and gravel content. Isolated areas contained brick in the subgrade. The fill soils were classified as non-expansive. The soils were visually classified as dark brown, rusty brown-gray, gray, and brown sandy lean clay (CL). These soils were present in a moist condition. Soil subgrade moisture ranged from 9.10% to 20.2%, with an average of 17.5%. It is anticipated the optimum moisture contents would range between 14-15%, depending on soil composition. The lab data would suggest the field moistures are near to above (-1+4%) the optimum moisture content for these soils.
Several factors are causing the deterioration being noted on the trail, ranging from moisture infiltration in the subgrade, uneven pavement sections, overloading the pavement (higher traffic volumes) and root infestation. These four are the main causes of the structural failures being noted. Drainage should to be incorporated into the rehabilitation or reconstruction of the trail to extend the useful life of the pavement. CMT also understands the City is considering a 2 ft widening of the existing trail, to make it 10 ft wide, to better accommodate utility vehicles.

There are several options to incorporate drainage into the subgrade and strengthen it for pavement support. CMT would recommend a remove and replace option. When the existing pavement sections are removed, the HMA could be crushed into a modified subbase gradation and placed on the subgrade to create a drainage layer. As an alternative, the existing pavements can be reclaimed into the soil subgrades, increasing stability and adding drainage to the soils. Full depth reclamation could be conducted on the pavement sections to a depth of 6 inches, utilizing a 5% cement stabilization. Either of these options will incorporate drainage into the soils and build structural support. With the proposed widening of the trail, it will be critical to create uniform support across the pavement section. If uniform support is not created, differential could occur at the widening joint, creating longitudinal cracks.

Once subgrade preparation is complete, a minimum 5 inch HMA section, comprised of 3 inches of 3/4 inch base, and 2 inches of 3/4 surface lift could be placed. The HMA should utilize a 58-28S binder grade. The pavement sections should be increased in thickness for areas receiving higher traffic loads, such as near intersections, existing tie-ins, etc. If desired, increasing the thickness of the asphalt section, and utilizing a higher traffic mix design, could also extend the life of the pavement.

Tests were conducted in general accordance with ASTM test methods and procedures referenced on the enclosed testing reports. Please feel free to call should you have questions or if I may be of further assistance.

Sincerely,

Sybil K. Ferrer, P.E.
Principal Engineer
APPENDIX
GENERAL NOTES - BORING LOG DESCRIPTIONS

Soil descriptions stated on the Boring Logs are based on the Unified Soil Classification System as stated in ASTM Designations D-2487 and D-2488. The Unified Soil Classification group symbol listed in the table below correlate to the group symbols listed on the Boring Logs. The classification is mainly based on visual observations to define the soil characteristics. If a more detailed soil description is required, additional soil testing will be conducted to better define the soil characteristics.

<table>
<thead>
<tr>
<th>Group Symbol</th>
<th>Group Name</th>
<th>Group Symbol</th>
<th>Group Name</th>
<th>Group Symbol</th>
<th>Group Name</th>
<th>Group Name</th>
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<tbody>
<tr>
<td>SW</td>
<td>Well-graded Sand</td>
<td>GW</td>
<td>Well-graded Gravel</td>
<td>CL</td>
<td>Lean Clay</td>
<td>CH</td>
</tr>
<tr>
<td>SP</td>
<td>Poorly-graded Sand</td>
<td>GP</td>
<td>Poorly-graded Gravel</td>
<td>ML</td>
<td>Silt</td>
<td>MH</td>
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<tr>
<td>SM</td>
<td>Silty Sand</td>
<td>GM</td>
<td>Silty Gravel</td>
<td>OL or CH</td>
<td>Organic Silt</td>
<td>Pt</td>
</tr>
<tr>
<td>SC</td>
<td>Clayey Sand</td>
<td>GC</td>
<td>Clayey Gravel</td>
<td></td>
<td>Organic Clay</td>
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### RELATIVE DENSITY OF COARSE-GRANED SOILS

<table>
<thead>
<tr>
<th>SPT, bpf</th>
<th>Relative Density</th>
<th>Unconfined Compressive Strength, ( q_u ), psf</th>
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<tbody>
<tr>
<td>0-3</td>
<td>Very Loose</td>
<td>&lt; 500</td>
</tr>
<tr>
<td>4-9</td>
<td>Loose</td>
<td>500 - 1,000</td>
</tr>
<tr>
<td>10-29</td>
<td>Medium Dense</td>
<td>1,001 - 2,000</td>
</tr>
<tr>
<td>30-49</td>
<td>Dense</td>
<td>2,001 - 4,000</td>
</tr>
<tr>
<td>50-80</td>
<td>Very Dense</td>
<td>4,001 - 8,000</td>
</tr>
<tr>
<td>80+</td>
<td>Extremely Dense</td>
<td>8,001 - 16,000</td>
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### CONSISTENCY OF FINE-GRAINED SOILS

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<th>Consistency</th>
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<tr>
<td>Very Soft</td>
<td>0 - 2</td>
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<tr>
<td>Soft</td>
<td>2 - 4</td>
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<tr>
<td>Medium Stiff</td>
<td>4 - 8</td>
</tr>
<tr>
<td>Stiff</td>
<td>8 - 15</td>
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<tr>
<td>Very Stiff</td>
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<tr>
<td>Hard</td>
<td>30 - 100</td>
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<tr>
<td>Very Hard</td>
<td>&gt; 100</td>
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### GRAIN SIZE TERMINOLOGY

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<thead>
<tr>
<th>Major Component of Sample</th>
<th>Size Range</th>
<th>Descriptive Terms(s) (of components also present in sample)</th>
<th>Fines Percent of Dry Weight</th>
<th>Sand and Gravel Percent of Dry Weight</th>
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</thead>
<tbody>
<tr>
<td>Cobble</td>
<td>12 in. to 3 in. (300 mm to 75 mm)</td>
<td>Trace</td>
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<td>&lt; 15</td>
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<tr>
<td>Gravel</td>
<td>3 in. to #4 sieve (75 mm to 4.75 mm)</td>
<td>With</td>
<td>5 - 12</td>
<td>15 - 29</td>
</tr>
<tr>
<td>Sand</td>
<td>#4 to #200 sieve (4.75 mm to 0.074 mm)</td>
<td>Modifier</td>
<td>&gt; 12</td>
<td>&gt; 30</td>
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<tr>
<td>Silt or Clay</td>
<td>Passing #200 sieve (&gt; 0.074 mm)</td>
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<td></td>
</tr>
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</table>

### RELATIVE PROPORTIONS

**Drilling and Sampling Abbreviations**

**Drilling Methods**
- CFA - Continuous Flight Auger; typically, 4, 6, or 8 inches in diameter (ASTM D 1452)
- HSA - Hollow Stem Auger; 6 or 8 inches in diameter, continuous flight auger remains in bore hole with undisturbed soil samples obtained from center of auger.
- HA - Hand Auger; typically with a 4 inch or less diameter auger

**Sample Types**
- SS - Split Spoon; samples obtained with a 140 lb manual hammer in accordance with ASTM D1586.
- SSA - Split Spoon; samples obtained with a 140 lb automatic hammer in accordance with ASTM D 1586.
- ST - Shelby Tube; thin walled tube samples, typically for cohesive soils, in accordance with ASTM D1587.
- SPT - Standard Penetration Test: The number of blows required to drive a sampler, either split spoon or drive cone, into the soil with a 140 lb mass dropped a distance of 30 inches, in accordance with ASTM D 1586, and the number of blows are recorded in each 6 inch interval over a distance of 18 inches. Blow counts are reported for each 6 inch interval or the sum of the last two intervals is reported. The sum of the last two intervals is referred to as N, in blow per foot.
- BS - Bulk Disturbed Sample
- CPT - Cone Penetration Test; A device in which a 60° cone is pushed continuously into the soil and the cone end resistance is measured for skin friction and end bearing (ASTM D3441).
Boring No. 1
Project Neal Smith Trail Cores
Client City of Des Moines
Surface Elev. Existing Ground Surface
Project No. 202039NST

<table>
<thead>
<tr>
<th>Depth Ft</th>
<th>Sample #</th>
<th>Method</th>
<th>SPT. bpf</th>
<th>Moisture %</th>
<th>Dry Density (lb/ft³)</th>
<th>Unconfined Compressive Strength</th>
<th>Cross-Section</th>
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</tr>
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<td>CS</td>
<td>9.08</td>
<td></td>
<td>2,000**</td>
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<td></td>
</tr>
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</tbody>
</table>

Material Description *
* The stratification lines represent approximate boundary lines between material types -- the transition may be gradual.

±4.5 inches HMA

Dark brown sandy clay with traces brick and gravel

EXISTING FILL

End of Boring
No groundwater noted during drilling operations.
**Estimated using calibrated penetrometer.
<table>
<thead>
<tr>
<th>Depth Ft.</th>
<th>Sample #</th>
<th>Method</th>
<th>SP' bpf</th>
<th>Moisture %</th>
<th>Dry Density lb/ft³</th>
<th>Unconfined Compressive Strength</th>
<th>Cross Section</th>
<th>Description</th>
</tr>
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<td>±4.5 inches HMA</td>
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<td>1</td>
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<td>17.9</td>
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<td>Rusty brown sandy clay with trace gravel</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>EXISTING FILL</td>
</tr>
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<td>End of Boring</td>
</tr>
<tr>
<td>4</td>
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<td></td>
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<td>**Estimated using calibrated penetrometer.</td>
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</table>

**Material Description**

* The stratification lines represent approximate boundary lines between material types -- the transition may be gradual.

**Groundwater Level Observations**

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<th>Dry</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>▼</td>
</tr>
</tbody>
</table>

| IAD | ▼   |

1610 E. Madison Ave. • Des Moines, Iowa 50313
(515) 263-0794 • Fax (515) 263-0851
<table>
<thead>
<tr>
<th>Depth Ft</th>
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<th>SP %</th>
<th>Moisture</th>
<th>Dry Density</th>
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<td>±4.0 inches HMA</td>
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<td>2,500**</td>
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<td>Dark brown-grayish brown sandy clay with trace brick</td>
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<td></td>
<td></td>
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<td>EXISTING FILL</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
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<td></td>
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<td>End of Boring</td>
</tr>
<tr>
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</tr>
<tr>
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<td>**Estimated using calibrated penetrometer.</td>
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**Groundwater Level Observations**

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1810 E. Madison Ave. • Des Moines, Iowa 50313
(515) 263-0794 • Fax (515) 263-0651
<table>
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<th>Sample #</th>
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<th>SPT bpf</th>
<th>Moisture %</th>
<th>Dry Density</th>
<th>Unconfined Compressive Strength</th>
<th>Cross Section</th>
<th>Material Description</th>
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<td>0</td>
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<td></td>
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<td></td>
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<td>≥4.5 inches HMA</td>
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<tr>
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<td>CS</td>
<td>20.2</td>
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<td>2,000**</td>
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<td>Yellowish gray sandy clay with trace gravel</td>
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<td>No groundwater noted during drilling operations.</td>
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</tbody>
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* The stratification lines represent approximate boundary lines between material types, the transition may be gradual.

**Estimated using calibrated penetrometer.
<table>
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<td>±3.0 inches HMA</td>
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<td>1</td>
<td>I</td>
<td>CS</td>
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<td></td>
<td>2,000**</td>
<td>Gray sandy clay with trace gravel</td>
<td>CL</td>
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<td>End of Boring</td>
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No groundwater noted during drilling operations.

**Estimated using calibrated penetrometer.
<table>
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<th>Depth Ft</th>
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</tr>
</tbody>
</table>

Material Description *

*The stratification lines represent approximate boundary lines between material types. The transition may be gradual.

- ≥6.0 inches HMA
- Brown sandy clay

EXISTING FILL

End of Boring

No groundwater noted during drilling operations.

**Estimated using calibrated penetrometer.
**Boring No.** 7  
**Project** Neal Smith Trail Cores  
**Client** City of Des Moines  
**Surface Elev.** Existing Ground Surface  
**Project No.** 202039NST

<table>
<thead>
<tr>
<th>Depth Ft.</th>
<th>Sample #</th>
<th>Method</th>
<th>SPT hpf</th>
<th>Moisture %</th>
<th>Dry Density M</th>
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</table>

**Material Description**

*The stratification lines represent approximate boundary lines between material types – the transition may be gradual.*

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<thead>
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<th>Depth</th>
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<td>1</td>
<td>Reddish brown sandy clay with trace gravel</td>
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**EXISTING FILL**

End of Boring
No groundwater noted during drilling operations.
**Estimated using calibrated penetrometer.**

**Groundwater Level Observations**

<table>
<thead>
<tr>
<th>WD</th>
<th>Dry</th>
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<td>Sample #</td>
<td>Method</td>
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<td>----------</td>
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<td>6</td>
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</tbody>
</table>

**Material Description**

* The stratification lines represent approximate boundary lines between material types -- the transition may be gradual.

- ±4.0 inches HMA
- Reddish brown gray sandy clay

**End of Boring**

No groundwater noted during drilling operations.
**Estimated using calibrated penetrometer.**

---

**Groundwater Level Observations**

<table>
<thead>
<tr>
<th>WD</th>
<th>Dry</th>
<th>IAD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>△</td>
<td>▼</td>
</tr>
</tbody>
</table>
### Material Description

* The stratification lines represent approximate boundary lines between material types; the transition may be gradual.

<table>
<thead>
<tr>
<th>Depth Fl.</th>
<th>Sample #</th>
<th>Method</th>
<th>SPT bpf</th>
<th>Moisture %</th>
<th>Dry Density</th>
<th>Unconfined Compressive Strength</th>
<th>Cross Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>CS</td>
<td>18.6</td>
<td></td>
<td>2,000**</td>
<td>±3.5 inches HMA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yellowish gray gray sandy clay</td>
<td>CL</td>
</tr>
</tbody>
</table>

**EXISTING FILL**

---

**Groundwater Level Observations**

<table>
<thead>
<tr>
<th>WD</th>
<th>Dry</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAD</td>
<td>▼</td>
</tr>
</tbody>
</table>

---

End of Boring
No groundwater noted during drilling operations.
**Estimated using calibrated penetrometer.**
## Boring Details

- **Boring No.**: 10  
- **Project**: Neal Smith Trail Cores  
- **Client**: City of Des Moines  
- **Surface Elev.**: Existing Ground Surface  
- **Project No.**: 202039NST

### Material Description

<table>
<thead>
<tr>
<th>Depth Ft.</th>
<th>Sample #</th>
<th>Method</th>
<th>SPT Npf</th>
<th>Moisture %</th>
<th>Dry Density</th>
<th>Unconfined Compressive Strength</th>
<th>Cross Section</th>
<th>USCS</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>±4.5 inches HMA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CS</td>
<td>17.9</td>
<td></td>
<td>2,500**</td>
<td>Yellowish gray gray sandy clay</td>
<td></td>
<td>CL</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EXISTING FILL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>End of Boring</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Groundwater Level Observations**

<table>
<thead>
<tr>
<th>WD</th>
<th>Dry</th>
<th>▼</th>
</tr>
</thead>
</table>

- **Notes**: No groundwater noted during drilling operations.  
- **Penetrometer**: Estimated using calibrated penetrometer.

---

1610 E. Madison Ave. • Des Moines, Iowa 50313  
(515) 263-0794 • Fax (515) 263-0851
<table>
<thead>
<tr>
<th>Depth Ft</th>
<th>Sample</th>
<th>Method</th>
<th>Sft/ft</th>
<th>Moisture %</th>
<th>Dry Density Pd</th>
<th>Unconfined Compressive Strength</th>
<th>Cross Section</th>
<th>Material Description</th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>±6.0 inches HMA</td>
</tr>
<tr>
<td>1</td>
<td>CS</td>
<td></td>
<td>20.2</td>
<td></td>
<td></td>
<td>3,000**</td>
<td></td>
<td>Dark grayish brown sandy clay</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EXISTING FILL</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>End of Boring</td>
</tr>
</tbody>
</table>

*Estimated using calibrated penetrometer.

No groundwater noted during drilling operations.

Groundwater Level Observations

<table>
<thead>
<tr>
<th>WD</th>
<th>Dry</th>
<th>▼</th>
</tr>
</thead>
<tbody>
<tr>
<td>1AD</td>
<td>▼</td>
<td></td>
</tr>
</tbody>
</table>
Site Map
No Scale

Neal Smith Trail
Attached is a study of materials for the development of an FDR mix design completed by Construction Materials Testing (CMT) dated July 8, 2020. The information shown in this analysis is for informational purposes only and shall not constitute a basis for any extra work orders.
July 8, 2020

City of Des Moines
Attn: Mr. Chris Kuhl, P.E.
400 Robert D. Ray Rive
Des Moines, Iowa 50309

Dear Mr. Kuhl,

CMT has completed a study of materials for the Neal Smith Trail Widening in the City of Des Moines. This portion of the trail is from Euclid Ave north to the City limit. CMT obtained samples of the trail material for creating the mix design. The mix was created from the top 12 inches, utilizing approximately 25% RAP content. This was based on an average 4 inches of RAP recovered in the cores and bores. CMT processed the materials in a laboratory condition to represent the full depth reclamation process with the incorporation of chemical percentages. The chemical stabilization agent chosen was Continental Type I/II cement, which will be incorporated during the process of stabilizing the road bed. Listed below is a chart of the Proctor values and compressive strength test results. Based on this information and the graphical plotting of the strength values, CMT would recommend a 5% cement dosage to achieve the highest strength at the greatest economy.

<table>
<thead>
<tr>
<th>Material</th>
<th>Virgin 200604A</th>
<th>3% Cement 200604B</th>
<th>5% Cement 200604C</th>
<th>7% Cement 200604D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Density, pcf (Proctor Value)</td>
<td>109.9</td>
<td>108.9</td>
<td>108.5</td>
<td>108.1</td>
</tr>
<tr>
<td>Optimum Moisture Content, % (Proctor)</td>
<td>15.7</td>
<td>16.1</td>
<td>17.4</td>
<td>17.8</td>
</tr>
<tr>
<td>Compressive Strength, psi – 5 Day</td>
<td>217</td>
<td>221</td>
<td>232</td>
<td>242</td>
</tr>
<tr>
<td>Compressive Strength, psi – 7 Day</td>
<td>219</td>
<td>225</td>
<td>248</td>
<td>256</td>
</tr>
</tbody>
</table>

Tests were conducted in general accordance with ASTM C-136, D-698, D-2216 and D-558. Please feel free to call should you have questions or if I may be of further assistance.

Sincerely,

Sybil K. Ferrier, P.E.
Principal Engineer

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Sybil K. Ferrier, P.E.
License No. 20479

My License renewal date is December 31, 2020. Pages or sheets covered by this seal: All Pages.
COMPACCIÓN TEST REPORT

Test specification: ASTM D 698-00a Method A Standard

<table>
<thead>
<tr>
<th>Elev/Depth</th>
<th>Classification</th>
<th>Nat. Moist.</th>
<th>Sp.G.</th>
<th>LL</th>
<th>PI</th>
<th>% &gt; #4</th>
<th>% &lt; No.200</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCS</td>
<td>AASHTO</td>
<td>2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TEST RESULTS

Maximum dry density = 109.9 pcf
Optimum moisture = 15.7 %

Project No.: 202039NST  Client: City of Des Moines
Project: Neal Smith Trail Cores
Date: 6/4/20
Location: Neal Smith Trail
Sample Number: 200604A

MATERIAL DESCRIPTION
Dark brown-gray sandy lean clay trace gravel and RAP

Remarks:
Sampled on-site.

Figure

Tested By: A. Koch
Checked By: [Signature]
## Compaction Test Report

Test specification: ASTM D 698-00a Method A Standard

<table>
<thead>
<tr>
<th>Elev/Depth</th>
<th>Classification</th>
<th>Nat. Moist.</th>
<th>Sp.G.</th>
<th>LL</th>
<th>PI</th>
<th>% &gt; #4</th>
<th>% &lt; No.200</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCS</td>
<td>AASHTO</td>
<td>2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Test Results

- Maximum dry density = 108.9 pcf
- Optimum moisture = 16.1%

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Client</th>
<th>Project</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>202039NST</td>
<td>City of Des Moines</td>
<td>Neal Smith Trail Cores</td>
<td>6/4/20</td>
</tr>
</tbody>
</table>

- Location: Neal Smith Trail
- Sample Number: 200604B

Material Description:
- Dark brown-gray sandy lean clay trace gravel and RAP and 3% cement

Remarks:
- Sampled on-site. Cement added in laboratory.

Tested By: A.Koch
Checked By: [Signature]
## COMPACtion TEST REPORT

**Test specification:** ASTM D 698-00a Method A Standard

### Elevation/Depth

<table>
<thead>
<tr>
<th>Classification</th>
<th>USCS</th>
<th>AASHTO</th>
<th>Nat. Moist.</th>
<th>Sp.G.</th>
<th>LL</th>
<th>PI</th>
<th>% &gt; #4</th>
<th>% &lt; No.200</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TEST RESULTS

- Maximum dry density = 108.5 pcf
- Optimum moisture = 17.4 %

### MATERIAL DESCRIPTION
- Dark brown-gray sandy lean clay trace gravel and RAP and 5% cement

### Project Information

- **Project No.:** 202039NST
- **Client:** City of Des Moines
- **Project:** Neal Smith Trail Cores
- **Location:** Neal Smith Trail
- **Date:** 6/4/20
- **Sample Number:** 200604C

### Remarks
- Sampled on-site. Cement added in laboratory.

---

**Tested By:** A. Koch  
**Checked By:** [Signature]

---

[Signature]
COMPACATION TEST REPORT

Test specification: ASTM D 698-00a Method A Standard

<table>
<thead>
<tr>
<th>Elev/Depth</th>
<th>Classification</th>
<th>USCS</th>
<th>AASHTO</th>
<th>Nat. Moist.</th>
<th>Sp.G.</th>
<th>LL</th>
<th>PI</th>
<th>% &gt; #4</th>
<th>% &lt; No.200</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
<td>2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TEST RESULTS

Maximum dry density = 108.1 pcf
Optimum moisture = 17.8 %

Project No.: 202039NST  Client: City of Des Moines
Project: Neal Smith Trail Cores
Location: Neal Smith Trail  Sample Number: 200604D

Date: 6/4/20

Material Description:
Dark brown-gray sandy lean clay trace gravel and RAP and 7% cement

Remarks:
Sampled on-site. Cement added in laboratory.

Figure
COMPACTATION TEST REPORT

DATE: 7/2/2020
PROJECT NO.: 202039NST
PROJECT: Neal Smith Trail Cores

100% SATURATION CURVES FOR SPEC. GRAV. EQUAL TO:

<table>
<thead>
<tr>
<th>No.</th>
<th>LOCATION AND DESCRIPTION</th>
<th>TEST SPECIFICATION</th>
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</thead>
<tbody>
<tr>
<td>○</td>
<td>Location: Neal Smith Trail, Sample Number: 200604A, Dark brown-gray sandy lean clay, trace gravel and RAP</td>
<td>ASTM D 698-00a Method A Standard</td>
</tr>
<tr>
<td>□</td>
<td>Location: Neal Smith Trail, Sample Number: 200604B, Dark brown-gray sandy lean clay, trace gravel and RAP and 3% cement</td>
<td>ASTM D 698-00a Method A Standard</td>
</tr>
<tr>
<td>△</td>
<td>Location: Neal Smith Trail, Sample Number: 200604C, Dark brown-gray sandy lean clay, trace gravel and RAP and 5% cement</td>
<td>ASTM D 698-00a Method A Standard</td>
</tr>
<tr>
<td>◇</td>
<td>Location: Neal Smith Trail, Sample Number: 200604D, Dark brown-gray sandy lean clay, trace gravel and RAP and 7% cement</td>
<td>ASTM D 698-00a Method A Standard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
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<th>PI</th>
<th>NAT. MOIST.</th>
<th>OVERSIZE</th>
<th>%&lt; No.200</th>
<th>MAX. DRY DEN.</th>
<th>OPT. MOIST.</th>
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</thead>
<tbody>
<tr>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>109.9</td>
<td>15.7 %</td>
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<tr>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>108.9</td>
<td>16.1 %</td>
</tr>
<tr>
<td>△</td>
<td></td>
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<td>108.5</td>
<td>17.4 %</td>
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<td></td>
<td></td>
<td></td>
<td>108.1</td>
<td>17.8 %</td>
</tr>
</tbody>
</table>

CONSTRUCTION MATERIALS TESTING

Tested By: A.Koch
Checked By: [Signature]
This project will be constructed in accordance with the SUDAS Standard Specifications, 2021 Edition, which were adopted by the City of Des Moines on May 10, 2021, under Roll Call No. 21-0672, as amended by these City of Des Moines General Supplemental Specifications.

The SUDAS Standard Specifications, 2021 Edition, may be viewed at the Iowa SUDAS website https://iowasudas.org/manuals/specifications-manual/, or can be purchased online from the Iowa SUDAS website at: https://iowasudas.org/order-the-manuals/.

Said SUDAS Standard Specifications are hereby amended as follows:

SECTION 1010 – DEFINITIONS

1010, 1.03 DEFINITIONS AND TERMS. Add the following new definition:

PRIVATE CONSTRUCTION CONTRACT. A contract awarded by a private agency or individual for construction of a publicly owned or privately-owned improvement, which by agreement of the parties is subject to these specifications.

SECTION 1020 – PROPOSAL REQUIREMENTS AND CONDITIONS

1020, 1.01 QUALIFICATION OF THE BIDDERS: Add the following new E.

*E. The City of Des Moines may disqualify a Contractor from bidding on future work or from participating as a subcontractor for a period of up to 3 years in accordance with Section 94-198 of the Municipal Code of the City of Des Moines.

1020, 1.03 QUANTITIES AND UNIT PRICES: Delete B. and replace with the following new B.

B. When unit prices are requested in the proposal form, the quantities indicated on the proposal form are approximate only, and do not constitute a warranty or guarantee by the Jurisdiction as to the actual quantities involved in the work. Such quantities are to be used for the purpose of comparison of bids and determining the amount of bid security, contract, and performance payment, and maintenance bond. In the event of discrepancies between unit prices and unit price extensions listed in a bidder’s proposal, unit prices shall govern and unit price extensions shall be corrected, as necessary, for agreement with unit prices; except in the case of an obvious, serious, clerical error where the Engineer is able to determine the bidder’s intent from the proposal; in which case, the Jurisdiction may waive irregularities that are in best interest of the Jurisdiction, as long as the integrity of the bid process can be maintained. The Jurisdiction expressly reserves the right to increase or decrease the quantities during construction as outlined in Section 1040, 1.06 - Increase or Decrease of Work, and to make reasonable changes in design, provided such changes do not materially change the intent of the contract. The amount of work to be paid for shall be based upon the actual quantities performed.

*This highlighted language and Section 94-198 of the Municipal Code of the City of Des Moines are not the current law of the State of Iowa and not applicable to the City’s current bidding process.
1020, 1.09 PREPARATION OF THE PROPOSAL: Delete D. and replace with the following D:

D. When unit prices are requested, they shall be submitted on each and every item of work included for which bids are requested. The format for unit prices will be in dollars and whole cents only. In the case of discrepancy, the unit price shall govern; except in the case of an obvious, serious, clerical error where the Engineer is able to determine the bidder’s intent from the proposal; in which case, the Jurisdiction may waive irregularities that are in best interest of the Jurisdiction, as long as the integrity of the bid process can be maintained.

1020, 1.15 LIMITATION ON WITHDRAWAL OF PROPOSALS AFTER OPENING OF PROPOSALS: Add the following new C:

C. After bids are opened, if the low bidder claims that it has made a serious error in the preparation of its bid, and can support such a claim with evidence satisfactory to the Jurisdiction, said bidder shall be allowed to withdraw its bid and its bid security shall be returned; *provided however, as a condition for return of its bid security, said bidder shall be required to agree that it will not be allowed to again bid on the project, either as a prime bidder or as a subcontractor, if the project, or a substantial portion of the project, is rebid within six months of the first bid opening. Under no circumstances should said bidder be permitted to alter or adjust its bid, as this would undermine the entire system of competitive bidding and be an open invitation to abuse.

SECTION 1040 – SCOPE OF WORK

1040, 1.05 PLANS: Delete the 2nd paragraph and replace with the following:

Electronic support files, will not be provided prior to letting and may be provided to the low bidder and are for information only. Should there be a discrepancy between an electronic support file and a contract document, the contract documents shall govern. No guarantee is made that the data systems used by the Engineer will be directly compatible with the systems the Contractor uses.

1040, 1.07 CHANGE ORDERS, B. Written Orders: Add the following to the end of the section:

Formal approval by the Jurisdiction shall be defined as follows:
The authority of the Des Moines City Manager and the Engineer to approve change orders shall be limited to those change orders which will cost $50,000 or less. Change orders for work to cost more than $50,000 shall be approved by the City Council prior to the payment of the work provided for under the change order.

*This highlighted language is not the current law of the State of Iowa and not applicable to the City's current bidding process.

1040, 1.09 CHANGED SITE CONDITIONS, A. Latent or Subsurface Conditions: Delete 1. and 2. in their entirety and replace with the following 1. and 2.; and add the following new 3.

1. If the Contractor encounters latent or subsurface conditions differing materially from those indicated in the contract documents which the Contractor could not have discovered by a reasonable site investigation and examination of the type customarily undertaken by prudent and competent contractors, and if these changed conditions are considered by the Contractor as a basis for compensation in addition to the contract price, the Contractor shall within three working days after discovery thereof notify the Engineer of its claim by written notice as sent set forth herein. Before disturbing the site at which the latent or subsurface condition is alleged to exist, the Contractor shall give the Engineer the opportunity to inspect the same.
a. For claims greater than $50,000 the Contractor shall notify the Engineer by written notice either (i) personally delivered, (ii) sent by certified mail, return receipt requested, or (iii) delivered by a nationally recognized prepaid overnight courier service (receipt requested), to the address below:

City of Des Moines
Engineering Department
400 Robert D. Ray Drive
Des Moines, IA 50309-1891
Attention: Steve Naber, P.E., City Engineer

Under no circumstance will an email, text message, verbal communication or any other informal communication, be considered acceptable or satisfactory written notice required by this section. The written notice shall:

1) Expressly state that it is a request for a contract change under Section 1040, 1.09;
2) Expressly identify the latent or subsurface conditions that the Contractor alleges differ materially from those indicated in the contract documents which the Contractor could not have discovered by a reasonable site investigation and examination of the type customarily undertaken by prudent and competent contractors;
3) Expressly state the reason the Contractor believes extra compensation is due;
4) Identify work that Contractor alleges will be impacted.

b. For claims less than $50,000 the Contractor shall notify the Project Engineer by written notice sent as set forth above or sent by email providing the same detail as identified in a.1) through 4) above. Under no circumstances will a text message, verbal communication or any other informal communication be considered acceptable or satisfactory written notice required by this section.

2. After inspection by the Engineer, the Jurisdiction may, in its discretion, authorize the Contractor to proceed with or abandon the work. The Contractor shall resume construction operations pending a decision regarding its claim by the Jurisdiction. Failure of the Contractor to give written notice within three working days of discovering the conditions and to give the Engineer full opportunity to inspect the condition before disturbing the site shall be deemed a waiver by the Contractor of all claims for extra compensation arising out of the alleged condition.

3. Latent or subsurface conditions that do not materially differ from those shown on the plans shall not form the basis for additional compensation. No additional compensation or extension of time shall be provided for conditions that do not materially differ, regardless of the nature of the condition encountered.

1040, 1.10 DISPUTED CLAIMS FOR EXTRA COMPENSATION: Delete 1.10 in its entirety and replace with the following:

A. Basis of Claim for Extra Compensation:

1. In any case where the Contractor believes extra compensation is due for work or material beyond the scope of the Work under the contract and not ordered by the Engineer as Extra Work as defined in Section 1010, 1.03, the Contractor shall provide written notice to the Engineer, as set forth herein, of its intention to make claim for such extra compensation within thirty (30) days of discovering the circumstances regarding the claim and before beginning the work on which the claim is based (hereinafter referred to as a “Claim”).

a. For claims greater than $50,000 the Contractor shall notify the Engineer by written notice either (i) personally delivered, (ii) sent by certified mail, return receipt requested, or (iii)
delivered by a nationally recognized prepaid overnight courier service (receipt requested) to the address below:

City of Des Moines
Engineering Department
400 Robert D. Ray Drive
Des Moines, IA 50309-1891
Attention: Steve Naber, P.E., City Engineer

Under no circumstance will an email, text message, verbal communication or any other informal communication, be considered acceptable or satisfactory written notice required by this section. The written notice shall:

1) Expressly state that it is a request for a contract change under Section 1040, 1.10;
2) Expressly state the reason the Contractor believes extra compensation is due;
3) Identify the underlying work or material that Contractor claims is beyond the scope of the Work under the contract and not ordered by the Engineer as Extra Work as defined in Section 1010, 1.03;
4) Identify any work that will be impacted.

b. For claims less than $50,000 the Contractor shall notify the Project Engineer by written notice sent as set forth above or sent by email providing the same detail as identified in a.1) through 4) above. Under no circumstances will a text message, verbal communication or any other informal communication be considered acceptable or satisfactory written notice required by this section.

The Contractor shall not proceed with that work until the Contractor and the Jurisdiction have executed a change order with respect to the Claim. The Contractor shall have no right to submit a Claim for any matter which is exclusively reserved to authority of the Engineer under the Contract Documents.

2. The Jurisdiction shall not be responsible for damages attributable to the performance, nonperformance, or delay, of any other contractor, governmental agency, utility agency, firm, corporation, or individual authorized to do work on the project, except if such damages result from negligence on the part of the Jurisdiction, its Engineer, or any of its officers or employees.

3. For any Claim, if such written notification is not given, or if after such written notification is given the Engineer is not allowed facilities for keeping strict account of actual costs as defined for force-account construction, the Contractor thereby agrees to waive the Claim for extra compensation for such work. Such written notice by the Contractor, and the fact the Engineer has kept account of the cost as aforesaid, shall not be construed as establishing the validity of the Claim.

4. The Claim, when filed, shall be in writing and in sufficient detail to permit auditing and an evaluation by the Jurisdiction. The Claim shall be supported by such documentary evidence as the Contractor has available and shall be verified by affidavit of the Contractor or other person having knowledge of the facts.

B. Presentation and Consideration of Claim: If the Contractor wishes an opportunity to present its Claim in person, the Claim shall be accompanied by a written request to do so. Where the Contractor asks an opportunity to present its Claim in person, the Jurisdiction, within thirty (30) calendar days of the filing of the Claim, shall fix a time and place for a meeting between the Contractor and the Jurisdiction or its designated representatives or representative. The Jurisdiction shall, within a reasonable time after the filing of the Claim or the meeting above referred to, whichever is later, rule upon the validity of the Claim and notify the Contractor, in writing, of its ruling together with the reasons therefore. In case the Claim is found to be just, in whole or in part, it shall be allowed and paid to the extent so found.
C. **Request for Claim Review:** In the event a Contractor’s Claim as outlined in the above procedure in Sections 1040, 1.10(A) and (B) has been disallowed, in whole or in part, the Contractor may, within thirty (30) calendar days from the date the ruling of the Jurisdiction is mailed, make a written request to the Jurisdiction that its Claim or Claims be submitted to a board of review. The written request shall be either (i) personally delivered, (ii) sent by certified mail, return receipt requested, or (iii) delivered by a nationally recognized prepaid overnight courier service (receipt requested) addressed as follows:

City of Des Moines  
Engineering Department  
400 Robert D. Ray Drive  
Des Moines, IA  50309-1891  
Attention:  City Engineer

The Jurisdiction shall decide if the matter is subject to further review and shall, within thirty (30) calendar days of the receipt of the request for review, grant or deny the request for review. The Jurisdiction’s decision shall be final. In the event the Contractor fails to make a timely written demand for review of its Claim as provided by this Section 1040, 1.10(C), the decision of the Jurisdiction shall be deemed to be final and the Contractor shall have no right to pursue arbitration or litigation of its Claim.

D. **Board of Review:**

1. The Board shall have jurisdiction to pass upon questions involving compensation to the Contractor for work actually performed or materials furnished and upon claims for extra compensation that have not been allowed by the Jurisdiction. The Board’s jurisdiction shall not extend to matters exclusively reserved to the Engineer, to a determination of quality of workmanship or materials furnished, or to an interpretation of the intent of the Plans and Specifications except as to matters of compensation. Jurisdiction of the Board shall not extend to setting aside or modifying the terms or requirements of the contract.

2. Following the timely written demand for review of the Claim and the decision of the Jurisdiction to grant the request, a board of review shall be appointed to review the Claim. The board of review shall consist of three (3) members as follows: the Engineer, or designated representative; and two persons to be appointed by the Engineer (hereinafter the “Board”).

3. The Board shall set a date for the Contractor to present its Claim for review within sixty (60) days of the date the Jurisdiction issued its decision granting the Contractor’s request for review. The presentation before the Board shall not be in accordance with the Iowa rules of civil procedure and the Contractor shall not have the right to conduct discovery or compel the testimony of witnesses as part of the presentation. The Contractor shall submit three (3) copies of a written Claim summary and all documents it considers to be relevant to its Claim at least fourteen (14) days prior to the date set for the presentation before the Board. The presentation before the Board is intended to be an informal process to allow the Contractor to further explain its Claim and why it believes it is entitled to additional compensation. The Board reserves the right to impose such rules as it deems reasonably necessary to allow for a fair and efficient presentation.

4. Following the presentation before the Board, the Board shall render a written decision regarding the Claim within twenty (20) days of the presentation. In the event the Board renders a decision in favor of the Contractor for some or all of the Claim, the Contractor and the Jurisdiction shall promptly proceed in good faith to prepare a change order consistent with the decision of the Board. If the Board denies the Claim, in part or in full, the Contractor’s sole and exclusive remedy is to demand final resolution of the Claim that has been denied subject to the procedure provided below.
E. Final Resolution by Binding Arbitration or Litigation: For any Claim denied by the Board, the Jurisdiction shall have the sole and exclusive right to determine whether final resolution of the Claim shall be through Binding Arbitration or litigation. The Contractor shall not have the right to pursue final resolution of any Claim that the Contractor did not submit to the Board. The Contractor must make a written demand for final resolution of the Claim upon the Jurisdiction within thirty (30) days of the date when the Board rendered its decision or it will be deemed to have waived this right and the decision of the Board will be final. The written demand shall be either (i) personally delivered, (ii) sent by certified mail, return receipt requested, or (iii) delivered by a nationally recognized prepaid overnight courier service (receipt requested) addressed as follows:

City of Des Moines
Engineering Department
400 Robert D. Ray Drive
Des Moines, IA 50309 1891
Attention: Steve Naber, P.E., City Engineer

The Jurisdiction shall notify the Contractor within thirty (30) days of the date of receiving the Contractor’s written demand for final resolution of the Claim, whether the Jurisdiction will elect to use binding arbitration or litigation to reach a final resolution of the Claim. The decision to pursue binding arbitration or litigation, shall be the sole and exclusive decision of the Jurisdiction. The decision of the Jurisdiction on whether to pursue binding arbitration or litigation is final.

1. Arbitration.

(a) If the Jurisdiction elects to use binding arbitration for final resolution of the Claim, the sole and exclusive remedy for final resolution of the Claim shall be binding arbitration (the “Arbitration”). The Arbitration shall be submitted to a single arbitrator as is mutually agreed upon by the Contractor and Jurisdiction. If the Contractor and Jurisdiction cannot agree upon a single arbitrator within twenty-one (21) days of the date of the Jurisdiction’s notification to the Contractor of the Jurisdiction’s decision to pursue binding arbitration, the Arbitration shall be submitted to a three (3) member panel appointed as follows: the Contractor shall appoint one arbitrator; the Jurisdiction shall appoint one arbitrator; and the third arbitrator shall be chosen by the first two appointed arbitrators (for the sake of convenience, the arbitrator, or arbitrators as the case may be, shall be referred to hereinafter as the “Arbitrator”). The parties agree to work toward appointment of a three (3) member Arbitration panel within twenty-one (21) days after not being able to agree on a single arbitrator. The Arbitration shall be conducted in general accord with the Construction Industry Arbitration Rules of the American Arbitration Association then in effect. The parties reserve the right to alter and amend the rules for the Arbitration as they may mutually agree in writing.

(b) The Arbitrator shall have jurisdiction to pass upon questions involving compensation to the Contractor for work actually performed or materials furnished and upon claims for extra compensation that have not been allowed by the Jurisdiction. The Arbitrator’s jurisdiction shall not extend to matters exclusively reserved to the Engineer, to a determination of quality of workmanship or materials furnished, or to an interpretation of the intent of the Plans and Specifications, except as to matters of compensation. Jurisdiction of the Arbitrator shall not extend to setting aside or modifying the terms or requirements of the contract.

(c) Subject to agreement of the parties and the Arbitrator, the parties shall work in good faith to schedule the Arbitration and allow for the decision of the Arbitrator within two hundred forty (240) days after appointment of the Arbitrator.
(d) The Arbitrator shall render a written decision within twenty (20) days after the Claim has been fully submitted. For Arbitrations before more than one arbitrator, the decision of a majority of the panel shall govern. The Arbitrator’s decision shall provide a basis for the findings and legal conclusions and shall determine how the cost of the proceedings shall be borne by the parties.

(e) The decision of the Arbitrator shall be binding and final. There shall be no further appeal or judicial review, except under the limited circumstances as allowed by Iowa law.

2. Litigation.

(a) If the Jurisdiction elects not to use arbitration as the means to reach final resolution of the claim, then the sole and exclusive remedy for final resolution of the Claim shall be litigation which must be brought in Iowa District Court in and for the County where the Jurisdiction is located or in the United Stated District Court in and for the District where the Jurisdiction is located.

(b) To the fullest extent permitted by law, Contractor and Jurisdiction hereto waive any right each may have to a trial by jury in respect of litigation directly or indirectly arising out of or in connection with this Agreement.

SECTION 1050 – CONTROL OF WORK

1050, 1.10 PROTECTION OF LINE AND GRADE STAKES: Add the following new D.

D. The Jurisdiction shall provide all construction survey staking on projects funded by the Jurisdiction unless otherwise indicated on the plans or in the Contract Documents. On Private Construction Contracts, the Owner, in accordance with the Private Construction Contract, shall hire a Licensed Surveyor for all survey work.

SECTION 1060 – CONTROL OF MATERIALS

1060, 1.03 SAMPLES AND TESTING: Add the following new D.

D. All on-site inspection and testing, as well as testing of materials, will be provided by the Jurisdiction unless otherwise indicated on the plans or by special provisions.

SECTION 1070 – LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

1070, 1.03 PERMITS AND LICENSES: Delete and replace with the following:

The Contractor shall procure and pay for all necessary permits and licenses for the construction of the work and for temporary excavations, obstructions, enclosures, and street openings arising from the construction and completion of the work described in the Contract Documents. The Contractor shall be responsible for all violations of the law for any cause in connection with the construction of the work or caused by the obstruction of roads, streets, highways or sidewalks, and shall give all requisite notices to the Jurisdiction or other public authorities in connection therewith.

1070, 2.02 CONVENIENCE AND SAFETY: E. Project Area or Work Site Safety: Add the following new 6.
6. The City of Des Moines, Engineering Department, Master Construction Safety Packet is available in the Forms and Documents section at the Engineering page on the City of Des Moines website at:
https://www.dsm.city/document_center/Engineering%20and%20Traffic%20Forms%20and%20Documents/ENG-
Publications/MasterConstructionSafetyPacket.pdf?pdf=Master%20Construction%20Safety%20Packet&it=1580921434169 and is also available upon request from the Engineering Department. The Engineering Department will make available a copy of the City of Des Moines Master Construction Safety Plan to the Contractor when the contract is awarded. Said Safety Plan is for the Contractor’s information only and it is the Contractor’s sole responsibility to provide, or make available, this safety information to all its Subcontractors.

1070, 1.12, CONSENT TO JURISDICTION OF IOWA DISTRICT COURT OR FEDERAL DISTRICT COURT: Delete 1.12 in its entirety and replace with the following new 1.12:

1070, 1.12 DISPUTE RESOLUTION AND CONSENT TO JURISDICTION OF IOWA DISTRICT COURT OR FEDERAL DISTRICT COURT IN IOWA

A. The Contractor agrees any claims, disputes, causes of action that accrue to it, or which by subrogation or assignment accrue to its sureties or insurers, arising out of or connected with this contract, and that the Jurisdiction has determined in writing is not subject to Section 1040, 1.10, shall be resolved by arbitration or litigation as elected by the Jurisdiction. As to any such causes of action, Contractor shall provide written notice to Jurisdiction requesting that Jurisdiction make its election as to whether the dispute shall be settled by arbitration or litigation. The written notice shall be either (i) personally delivered, (ii) sent by certified mail, return receipt requested, or (iii) delivered by a nationally recognized prepaid overnight courier service (receipt requested) addressed as follows:
City of Des Moines
Engineering Department
400 Robert D. Ray Drive
Des Moines, IA 50309-1891
Attention: Steve Naber, P.E., City Engineer

Jurisdiction shall notify Contractor in writing as to its election within thirty (30) days of receipt of Contractor’s written notice requesting a determination by Jurisdiction.

1. Arbitration

(a) If the Jurisdiction elects to use binding arbitration for final resolution, the sole and exclusive remedy for final resolution of the dispute shall be binding arbitration (the “Arbitration”). The Arbitration shall be submitted to a single arbitrator as is mutually agreed upon by the Contractor and Jurisdiction. If the Contractor and Jurisdiction cannot agree upon a single arbitrator within twenty-one (21) days of the date of the Jurisdiction's notification to the Contractor of the Jurisdiction’s decision to pursue binding arbitration, the Arbitration shall be submitted to a three (3) member panel appointed as follows: the Contractor shall appoint one arbitrator; the Jurisdiction shall appoint one arbitrator; and the third arbitrator shall be chosen by the first two appointed arbitrators (for the sake of convenience, the arbitrator, or arbitrators as the case may be, shall be referred to hereinafter as the “Arbitrator”). The parties agree to work toward appointment of a three (3) member Arbitration panel within twenty-one (21) days after not being able to agree on a single arbitrator. The Arbitration shall be conducted in general accord with the Construction Industry Arbitration Rules of the American Arbitration Association then in effect. The parties reserve the right to alter and amend the rules for the Arbitration as they may mutually agree in writing.
(b) Jurisdiction of the Arbitrator shall not extend to setting aside or modifying the terms or requirements of the contract.

(c) Subject to agreement of the parties and the Arbitrator, the parties shall work in good faith to schedule the Arbitration and allow for the decision of the Arbitrator within two hundred forty (240) days after appointment of the Arbitrator.

(d) The Arbitrator shall render a written decision within twenty (20) days after the matter has been fully submitted. For Arbitrations before more than one arbitrator, the decision of a majority of the panel shall govern. The Arbitrator's decision shall provide a basis for the findings and legal conclusions and shall determine how the cost of the proceedings shall be borne by the parties.

(e) The decision of the Arbitrator shall be binding and final. There shall be no further appeal or judicial review, except under the limited circumstances as allowed by Iowa law.

2. Litigation.

(a) If the Jurisdiction elects not to use arbitration as the means to reach final resolution of the claim or fails to notify Contractor in writing within thirty (30) days of its election, then the sole and exclusive remedy for final resolution of the Claim shall be litigation which must be brought in Iowa District Court in and for the County where the Jurisdiction is located or in the United States District Court in and for the District where the Jurisdiction is located.

(b) To the fullest extent permitted by law, Contractor and Jurisdiction hereto waive any right each may have to a trial by jury in respect of litigation directly or indirectly arising out of or in connection with this Agreement.

B. Contractor further consents that it will require its subrogees and assigns to enter into an agreement to comply with the terms of Section, 1.12, and consent to the jurisdiction of either the Iowa District Court in and for the County where the Jurisdiction is located or the United States District Court in and for the District where the Jurisdiction is located, as to any causes of action brought against it arising out of this contract or any work performed under it by Contractor or its subcontractors, and further agrees, on behalf of itself, its subrogees and assigns, to waive any and all objections to the jurisdiction of said court as to any such cause of action. Contractor shall make such consent a condition of the retention of subrogees and assigns.

1070, 2.10 DUST CONTROL: Add the following paragraph:

The Contractor shall be responsible to remove any project-related construction materials deposited on a public street as well as related dust control measures. The Contractor shall employ all means necessary to prevent tracking soil, or loss of material, onto public streets; including but not limited to, rock ing private access roads and removing excess material from equipment before leaving the construction site. The Contractor shall promptly remove any material deposited on a public street utilizing mechanical scraping and street sweeping, or other means as required by the Jurisdictional Engineer.
**1070, 2.16 READY MIX CONCRETE WASTE:** New Section - Add the following 2.16:

**2.16 READY MIX CONCRETE WASTE**

Concrete trucks will be allowed to washout or discharge excess concrete only in specifically designated areas which have been prepared to minimize contact between the concrete and storm water discharge from the site. The hardened product from the concrete washout areas will be disposed of by the Contractor as other non-hazardous waste materials or may be broken up and used on the site for other appropriate uses.

**1070, 3.02 INSURANCE REQUIREMENTS, A:** Delete A and replace them with the following A

A. The contractor shall not purchase liability insurance in the name of the jurisdiction unless such purchase is allowed by special provision.

**1070, 3.02 INSURANCE REQUIREMENTS, C, 2. Commercial General Liability Insurance:** Revise the following limits on the Commercial General Liability Insurance:

- The Each Occurrence Limit shall be changed from $1,000,000 to $2,000,000.
- The Personal and Advertising Injury Limit, under Commercial General Liability, changed from $1,000,000 to $2,000,000.
- All other limits shall remain unchanged.

**1070, 3.02 INSURANCE REQUIREMENTS, C, 3. Automobile Liability Insurance:** Revise the following limits on the Automobile Liability Insurance:

- Minimum combined single limit per accident shall be changed from $1,000,000 to $2,000,000.

**1070, 3.02 INSURANCE REQUIREMENTS, C:** Add the following sentence at the end of 1, 2, 3, and 5: "Waiver of Subrogation in favor of Jurisdiction is required."

**1070, 3.02 INSURANCE REQUIREMENTS, C, 6. Additional Insured Endorsements:** Replace "Except for Workers Compensation, the insurance specified shall;", with "Except for Workers Compensation and Railroad Protective Liability Insurance, the insurance specified shall;".

**1070, 3.02 INSURANCE REQUIREMENTS, C:** Add the following new 8.

8. WAIVER OF SUBROGATION: To the fullest extent permitted by law, Contractor hereby releases the Jurisdiction, including their respective elected and appointed officials, agents, employees and volunteers and others working on their behalf from and against any and all liability or responsibility to the Contractor or anyone claiming through or under the Contractor by way of subrogation or otherwise, for any loss arising out of liability or occupational injury without regard to the fault of the Jurisdiction or the type of loss involved. This provision shall be applicable and in full force and effect only with respect to loss or damage occurring during the time of this Agreement. The Contractor's policies of insurance shall contain a clause or endorsement to the effect that such releases shall not adversely affect or impair such policies or prejudice the right of the Contractor to recover thereunder.

**1070, 3.03 CONTRACTOR'S INDEMNITY – CONTRACTUAL LIABILITY INSURANCE:** Delete B; and replace with the following B.

B. Except to the extent caused by or resulting from the negligent act or omission of the Jurisdiction or the Jurisdiction's employees, consultants, agents or other for whom the Jurisdiction is responsible, to the fullest extent permitted by law, the Contractor shall defend, indemnify, and hold harmless the Jurisdiction and its officers, agents, employees, and consultants from and
against all claims, damages, losses, and expenses, including but not limited to, attorney’s fees, arising out of or resulting from the performance or prosecution of the work by the Contractor, its subcontractors, agents, or employees; or arising from any neglect, default, or mismanagement or omissions by the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them in the performance of any duties imposed by the contract or by law; provided any such claim, damage, loss, or expense:

1. is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including economic damages and the loss of use resulting therefrom, and

2. is caused in whole or in part by any act or omission of the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them, or anyone for whose acts any of them may be liable.

Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity that would otherwise exist as to any party or person described in this subsection.

1070, 3.04 CONTRACTORS INSURANCE FOR OTHER LOSSES; WAIVER OF SUBROGATION, B:
Delete B and replace with the following B.

B. Contractor shall cause each of its subcontractors, consultants, suppliers, third parties, or the agents of any of them, to carry insurance sufficient to cover all loss to such materials, tools, motor vehicles, and equipment. All insurance carried by the Contractor, or its subcontractors, consultants, suppliers, third parties or the agents of any of them, covering risk of loss or damage to materials, tools, motor vehicles, and equipment used in the performance of the Work, shall provide a waiver of subrogation against the Jurisdiction, as specified in Section 1070, 3.02 Insurance Requirements, C.8. To the extent that any subcontractors, consultants, suppliers, third parties or the agents of any of them, do not provide such coverage, any uninsured loss shall be the sole responsibility of the Contractor.

1070, 3.05 PROPERTY INSURANCE: Delete A, D, and M; and replace them with the following A, D, and M.

A. Property Insurance Required: The Contractor shall purchase and maintain property insurance, being either Builder’s Risk Insurance or an Installation Floater, for the period of the contract: until final acceptance of the work by the Jurisdiction, on all construction contracts where a building, electrical, mechanical, or plumbing permit is required by the permitting entity.

1. Builder’s Risk Insurance by Contractor: On contracts for construction of new buildings or on contracts when Builder’s Risk Insurance is applicable to the contract by definition, the Contractor shall purchase and maintain Builder’s Risk Insurance for the duration of the contract; unless the Jurisdiction states by special provision that the Jurisdiction shall purchase and maintain the Builder’s Risk Insurance. This property insurance, Builder’s Risk Insurance, provided by the Contractor shall be in the amount of the initial bid amount, or in an amount equal to the estimated value of actual building construction, whichever is less, as well as applicable modifications thereto for the entire work at the site on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided in the contract documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final acceptance of the work by the Jurisdiction. The insurance shall include interests of the Jurisdiction, the Contractor, subcontractors, and sub-subcontractors in the work. If the Contractor’s property insurance covering the work has any deductible, the Contractor shall be responsible to pay the cost associated with the deductible. Flood and Earthquake Insurance shall be required as part of the Builder’s Risk Policy, and the minimum required policy limits shall be not less than 10% of the full amount of the contract. If Boiler and Machinery Insurance is required by the contract documents or by law, the Contractor shall purchase the Boiler and Machinery Insurance if the Contractor is required to purchase the Builder’s Risk Insurance. If Boiler and Machinery Insurance coverage is included in the
Contractor's Builders Risk Insurance policy, it may be used to satisfy the Boiler and Machinery Insurance requirement to the extent such coverage specifically covers such objects during installation, testing, and until final acceptance by the Jurisdiction.

2. Builder's Risk Insurance by the Jurisdiction: When stated in the special provisions, the Jurisdiction shall purchase and maintain property insurance, a.k.a. Builder's Risk Insurance in the amount of the initial bid amount, or in an amount equal to the estimated value of actual building construction, whichever is less, as well as applicable modifications thereto for the entire work at the site on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided in the contract documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final acceptance of the work by the Jurisdiction. The insurance shall include interests of the Jurisdiction, the Contractor, subcontractors, and sub-subcontractors in the work. The Jurisdiction will determine an appropriate deductible for the property insurance covering the work, however, the Contractor will be responsible for paying a deductible of up to $5,000 for each occurrence. Flood and Earthquake Insurance shall be required as part of the Builder’s Risk Policy, and the minimum required policy limits shall be not less than 10% of the full amount of the contract. If Boiler and Machinery Insurance is required by the contract documents or by law, the Jurisdiction shall purchase the Boiler and Machinery Insurance if the Jurisdiction is required to purchase the Builder’s Risk Insurance. If Boiler and Machinery Insurance coverage is included in the Jurisdiction’s Builders Risk Insurance policy, it may be used to satisfy the Boiler and Machinery Insurance requirement to the extent such coverage specifically covers such objects during installation, testing, and until final acceptance by the Jurisdiction.

3. Installation Floater: On the remainder of these contracts where Builder’s Risk Insurance is not applicable to a contract by definition and an Installation Floater is applicable by definition, the Contractor shall purchase and maintain an Installation Floater for the duration of the contract. This Installation Floater shall cover all materials, fixtures, equipment, and supplies provided for the job. Such insurance shall be on an “all risk” form in an amount equal to the maximum value of such materials, equipment, or supplies covered on the job site, off-premises at any temporary storage location, or in transit, and shall include coverage for hoisting and rigging. The Installation Floater shall be maintained until final acceptance of the work by the Jurisdiction. If the Contractor’s Installation Floater covering the equipment and work has any deductible, the Contractor shall be responsible to pay the cost associated with the deductible. If Boiler and Machinery Insurance is required by the contract or by law, the Contractor shall purchase the Boiler and Machinery Insurance; the Installation Floater may be used to satisfy this requirement to the extent the Boiler and Machinery Insurance coverage specifically covers such objects during installation, testing, and until final acceptance by the Jurisdiction.

D. Boiler and Machinery Insurance: When required by the contract documents or by law, Boiler and Machinery Insurance shall specifically cover such insured objects during installation, testing, and until final acceptance by the Jurisdiction; this insurance shall include interest of the Jurisdiction, Contractor, subcontractors, and sub-subcontractors in the work, and the Jurisdiction shall be named insureds. A Builders Risk Insurance policy or an Installation Floater, when also required by the contract documents or by law, may satisfy this requirement as indicated in 1070, 3.05 A.1, 2. and 3. above. If Boiler and Machinery Insurance is required by the contract documents or by law, the Contractor shall purchase the Boiler and Machinery Insurance. However, if the contract, requires the Jurisdiction to purchase the Builder's Risk Insurance, the Jurisdiction shall also purchase the Boiler and Machinery Insurance.

M. Installation Floater: See Section 1070, 3.05, A.3 above.

1070, 3.06 ENDORSEMENT NAMING JURISDICTION AS AN ADDITIONAL INSURED / CANCELLATION AND MATERIAL CHANGE/ GOVERNMENTAL IMMUNITIES
ENDORSEMENT: Under C. delete the first full paragraph regarding the Cancelation and Material Change Endorsement language and replace it with the following:

Thirty (30) days Advance Written Notice of Cancellation, ten (10) days Written Notification of Cancellation due to non-payment of premium and forty-five (45) days Advance Written Notification of Non-Renewal shall be sent to the Jurisdiction at the office and attention of the Certificate Holder. This endorsement supersedes the standard cancellation statement on the Certificate of Insurance to which this endorsement is attached.

1070, 3.06 ENDORSEMENT NAMING JURISDICTION AS AN ADDITIONAL INSURED / CANCELLATION AND MATERIAL CHANGE/ GOVERNMENTAL IMMUNITIES

ENDORSEMENT: Replace first sentence under E. with the following: If allowed, as specified in Section 1070, 3.02 Insurance Requirements A., all liability policies purchased in the Jurisdiction’s name shall include a Governmental Immunities Endorsement, pursuant to Iowa Code Section 670.4, which endorsement shall include the following provisions:

1070, 3.07 PROOF OF INSURANCE: Add the following sentence at the end of A: “Mail Certificate of Insurance to: Engineering Department, City of Des Moines, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa 50309.”

SECTION 1080 – PROSECUTION AND PROGRESS

1080, 1.03 WORK PROGRESS AND SCHEDULE: Add the following new D:

D. No person shall operate or permit the operation of any tools or equipment in construction, drilling or demolition work or in preventive maintenance work for public service utilities between the hours of 10:00 p.m. and 7:00 a.m. without the written permission of the Engineer.

1080, 1.09 EXTENSION OF TIME, B. – Request for Extension of Time: Add the following sentence before the last sentence in the first paragraph: “The request for an extension of time is the sole and exclusive remedy of the Contractor for the events listed below.

SECTION 1090 – MEASUREMENT AND PAYMENT

1090, 1.02 SCOPE OF PAYMENT, Add the following D.

D. If the Contractor fails to notify the Engineer or the Engineers representative prior to commencing work on various stages of work on the project, the work completed without notifying the City may not be compensated.

1090, 1.04 PAYMENT FOR CHANGE ORDERS, B: Add the following new 4:

4. Extra Work Performed by the Subcontractor: The maximum percentage of combined overhead, profit, and bond for changes in the work performed by the Contractor shall be 10%. If the changed work is performed by a Subcontractor, a maximum of 5% may be added by that Subcontractor on his work for combined overhead and profit and additional maximum of 5% may be added by the Prime Contractor for administration, coordination, and general conditions of said Subcontractor work.

1090, 1.05 PROGRESS PAYMENTS, B. Retainage: Delete B. in its entirety and replace with the following B.

B. Retainage: The Jurisdiction shall retain from each monthly progress payment 3% of the amount determined to be due according to the estimate of the Engineer. Early release of retained funds may be requested by the Contractor according to Iowa Code Section 573.28.
SECTION 2010 – EARTHWORK, SUBGRADE, AND SUBBASE

2010, 3.06 SUBGRADE PREPARATION, A. Uniform Composition: 1. Subgrade Compaction in Fill Sections: Add the following new e.

   e. Proof roll subgrade as specified in Section 3.06, B to locate soft or yielding areas prior to placement of top six-inch lift.

2010, 3.06 SUBGRADE PREPARATION, A. Uniform Composition: 2. Subgrade Compaction in Cut Sections: Add the following new d.

   d. Prior to scarify, mix, and re-compact the bottom six inches of subgrade (paragraph 2.b above), proof roll subgrade as specified in Section 3.06, B to locate soft or yielding areas.

SECTION 3010 – TRENCH EXCAVATION AND BACKFILL

3010, 3.02 ROCK OR UNSTABLE SOILS IN TRENCH BOTTOM: Delete B. and replace with the following new B.

   B. The Engineer will review the contractor’s request for the need for over-excavation and trench foundation stabilization and authorize the work prior to installation of pipes and structures.

3010, 3.05 PIPE BEDDING AND BACKFILL, E. Final Trench Backfill: 3. Class I and Class II Backfill Material: Delete a. and replace with the following new a.

   a. Compact to at least 65% relative density within right-of-way or under any paved surface or within two feet thereof.

3010, 3.05 PIPE BEDDING AND BACKFILL, E. Final Trench Backfill: 4. Class III and Class IVA Backfill Material: Delete a. and replace with the following new a.

   a. Compact to at least 95% of Standard Proctor Density within right-of-way or under any paved surface or within two feet thereof.

SECTION 4010 – SANITARY SEWERS

4010, 3.06 SANITARY SEWER SERVICE STUBS, C: Add the following new 7:

   7. Mark the location of all sanitary sewer service stubs at the time of installation by a two-inch wide detectable marking tape installed at a depth of 18 inches to 24 inches below finished grade, directly over the service stub, for its entire length and brought up to the surface at the end of the service stub adjacent to the post marking the stub location. The tape shall be green in color and marked “Sanitary Sewer Service Stub Buried Below”.

4010, 3.10 SANITARY SEWER CLEANOUT: Delete in its entirety and replace with the following:

   Cleanouts are not allowed on sanitary sewer mains in the City of Des Moines. Figure 4010.203 shall apply to services only.
SECTION 4020 – STORM SEWERS

4020, 2.01 STORM SEWERS, Parts A-L: Reinforced Concrete Pipe or Polypropylene Pipe shall be required for storm sewer construction in the Right-Of-Way or Public Easement areas. Minimum size of storm sewer pipe in the Right-Of-Way and Public Easement areas shall be 15-inch minimum diameter.

SECTION 4030 – PIPE CULVERTS

4030, 2.01 Pipe Culverts, Parts A-D: Reinforced Concrete Pipe shall be required for pipe culvert construction in the Right-Of-Way or Public Easement areas. Minimum size of pipe culverts in the Right-Of-Way and Public Easement areas shall be 15-inch minimum diameter.

SECTION 4040 – SUBDRAINS AND FOOTING DRAIN COLLECTORS

4040, 2.01 FOOTING DRAIN COLLECTORS: Use material for pipe and fittings complying with the current Adopted Edition of the Uniform Plumbing Code (UPC). In addition to the materials identified in the UPC, the pipe shall comply with ASTM D 3034, SDR 23.5 pipe will be allowed.

4040, 2.02 TYPE 1 SUBDRAINS (LONGITUDINAL SUBDRAIN), C. Corrugated Polyethylene Tubing and Fittings (Corrugated PE): Delete Type C and Type CP. Only Type S or Type SP are allowed in the City of Des Moines.

4040, 2.03 TYPE 2 SUBDRAINS (COMBINATION SUBDRAIN/FOOTING DRAIN COLLECTOR), B.3. HDPE Pipe: Delete Type CP. Only Type SP is allowed in the City of Des Moines.

4040, 2.09 FOOTING DRAIN SERVICE STUBS - Add this new 2.09 and the following note: Use material for pipe and fittings complying with the current Adopted Edition of the Uniform Plumbing Code (UPC). In addition to the materials identified in the UPC, the use of SDR 23.5 pipe will be allowed.

4040, 3.02 FOOTING DRAIN COLLECTORS, C: Add the following new 3:

3. Type B cleanouts should be used for footing drain collectors less than 5 feet in depth in the City of Des Moines. Footing drain collectors greater than 5 feet deep, a Type A cleanout shall be used.

4040, 3.03 FOOTING DRAIN SERVICE STUBS: Add the following new D and E.

D. Mark the location of all footing drain service stubs at the time of installation by a two-inch wide detectable marking tape installed at a depth of 18 inches to 24 inches below finished grade, directly over the service stub, for its entire length and brought up to the surface at the end of the service stub adjacent to the post marking the stub location. The tape shall be green in color and marked “Footing Drain Service Stub Buried Below”.

E. ABS, PVC and SDR 23.5 pipe shall be installed with a minimum bedding of 4” below and up all side with 3/8” clean smooth gravel or a bedding product approved by the Engineer.

4040, FIGURE 4040.232, SUBDRAIN CLEANOUTS: Add the following new Note 7 to Figure 4040.232.

7. Type B cleanouts should be used for footing drain collectors or combination subdrain/footing drain collectors less than 5 feet in depth in the City of Des Moines. Footing drain collectors greater than 5 feet deep, a Type A cleanout shall be used.
SECTION 4060 – CLEANING, INSPECTION, AND TESTING OF SEWERS

4060, 3.03 VIDEO INSPECTION, A. General: Delete 1. and replace with the following new 1.

1. Conduct video inspection of all new and rehabilitated sanitary sewers, storm sewers, pipe culverts, and footing drain collectors after all backfill and compaction operations are completed, but prior to paving, unless otherwise specified in the contract documents.

SECTION 6010 – STRUCTURES FOR SANITARY AND STORM SEWERS

6010, PARTS 1, 2, 3, and Figures: Unless specifically noted as precast construction on the construction drawings, all square or rectangular shaped intakes and manholes shall be cast-in-place. Circular precast intakes and manholes are allowed in the City of Des Moines.

6010, 2.03, B. REINFORCEMENT: Add the following second sentence: All reinforcement for cast-in-place structures shall be epoxy coated.

6010, 2.09 MANHOLE OR INTAKE ADJUSTMENT RINGS (Grade Rings): Add the following new C.

C. Manhole adjustment rings are not required to have pre-formed or pre-drilled holes for the anchor bolts.

6010, 2.10 CASTINGS (Ring, Cover, Grate, and Extensions), D. Casting Types: 2. - Intakes: Delete b. and replace it with the following b.

b. Castings shall include design shown in this General Supplemental for lids on Type E, F, and G storm sewer castings shown for Figure 6101.602.

6010, 2.13 STEPS: Delete entire Section as manhole steps are not allowed in the City of Des Moines.

6010, 2.15 ANCHOR BOLTS AND WASHERS, B. Diameter: Delete B. and replace it with the following B.: Provide bolts and washers 1/8 inch smaller than hole or slot in the casting frame but not less than 7/8 inch diameter.

6010, 3.01 GENERAL REQUIREMENTS FOR INSTALLATION OF MANHOLES AND INTAKES, J. Castings: Delete J. and replace with the following J.: Install the type of casting specified in the contract documents and adjust to proper grade. Where a manhole or intake is to be in a paved area, adjust the casting to match the slope of the finished surface. When castings with a bolt down cover (Type C or D) are specified, attach casting frame to the structure with four anchor bolts.

6010, 3.03 ADDITIONAL REQUIREMENTS FOR PRECAST CONCRETE STRUCTURES, Add new F following:

F. Field Modification of Precast Structures: Significant modifications to precast structures to adjust elevations to field conditions will not be allowed. Significant modifications include, but are not limited to, excessive saw cutting of precast structures. Any field modifications to the precast structure shall be approved by the Engineer, or the Engineer's representative, or the precast structure will not be accepted.

SECTION 7010 – PORTLAND CEMENT CONCRETE PAVEMENT

7010, 1.08 MEASUREMENT AND PAYMENT, Add new N following:

N. Cold Weather Protection: When any type of additional protection described in 7010.3.04.A is necessary, additional payment will be made as extra work at the rate of $1.00 per square yard of
surface protected. Payment will be limited to protection within the contract period. Protection necessary after November 15 will be paid only when the Engineer authorizes the work.

7010, 3.02 PAVEMENT CONSTRUCTION, E. Bar and Reinforcement Placement, 1. Tie Bars: Delete a. and replace it with the following a.

a. Place bars prior to vibration. Bars shall be supported by approved chairs. Placement in position by a machine is not allowed.

7010, 3.02 PAVEMENT CONSTRUCTION, E. Bar and Reinforcement Placement: Add the following new 5:

5. PCC pavement slabs with manhole castings, with or without boxouts, shall have reinforcement similar to PV-103 around the castings.

7010, 3.02 PAVEMENT CONSTRUCTION, F. Concrete Pavement Placement: Delete 1. and replace it with the following .

1. Use paving machine for all full-width paving, pavement widening, and pavement reconstruction 100 feet or more in length.

7010, 3.07 CURB AND GUTTER CONSTRUCTION: Delete B. and replace it with the following B.

B. Use curb and gutter machine for all curb and gutter construction 100 feet or more in length.

7010, 3.07 QUALITY CONTROL, D. Pavement Thickness: Add the following as the first sentences under 1: Coring of pavement will not be required by the City of Des Moines if depth checks of the plastic thickness of the pavement are within one-half inch of the design thickness. If the variance exceeds one-half inch this section shall apply.

7010, FIGURE 7010.101, JOINTS: On Sheet 2 of 8 under ‘C’ Joint in Curb add the following: The entire curb shall be sealed with Joint Sealant Material.

7010, FIGURE 7010.101, JOINTS: On Sheet 3 of 8 delete Note 11 and replace with the following Note 11.

11. Sawing and sealing of the joint is required. See Detail D-2. On Sheet 3 of 8 Joint Types KT-1, KT-2, and KT-3 shall not be used.

7010, FIGURE 7010.901, PCC PAVEMENT JOINTING: Add Note 6 with the following:

6. All new roadway pavements shall be a minimum width of 27 feet back to back with parking on one side and 33 feet with parking on two sides.

SECTION 7020 – HOT MIX ASPHALT PAVEMENT

7020, 3.01 HMA PAVEMENT, Add the following new H.:

H. The paver shall be capable of paving a minimum continuous width of twenty (20) foot wide strip without seam. Pavers in tandem will be acceptable; however, an adequate number of personnel shall be available to operate both pavers simultaneously.

7020, FIGURE 7020.901, HMA PAVEMENT: Add Note 3 with the following:

3. All new roadway pavements shall be a minimum width of 27 feet back to back with parking on one side and 33 feet with parking on two sides.

SECTION 7021 – HOT MIX ASPHALT OVERLAYS
7020, 3.01 HMA PAVEMENT, Add the following new C.:

C. The paver shall be capable of paving a minimum continuous width of twenty (20) foot wide strip without seam. Pavers in tandem will be acceptable; however, an adequate number of personnel shall be available to operate both pavers simultaneously.

SECTION 7030 – SIDEWALKS, SHARED USE PATHS, AND DRIVEWAYS

7010, 1.08 MEASUREMENT AND PAYMENT, Add new J following:

J. Cold Weather Protection: When any type of additional protection described in 7010.3.04.A is necessary, additional payment will be made as extra work at the rate of $1.00 per square yard of surface protected. Payment will be limited to protection within the contract period. Protection necessary after November 15 will be paid only when the Engineer authorizes the work.

7030, 2.07 DETECTABLE WARNINGS: Add the following sentence at the end: Only cast iron detectable warnings are allowed in the City of Des Moines.

7030, 3.04 PCC SIDEWALKS, SHARED USE PATHS, AND DRIVEWAYS, A. Form Setting: Add the following new 6:

6. The turning space for a sidewalk or shared use path shall be formed separately from the adjoining ramps and sidewalk or shared use path.

7030, 3.04 PCC SIDEWALKS, SHARED USE PATHS, AND DRIVEWAYS, B. Concrete Pavement Placement, 1. Shared Use Path: Add the following sentence at the end: “When the Portland Cement Concrete is delivered to the project on the prepared subgrade or subbase, the loads shall be limited to 5 tons for single axle vehicles or 10 tons for tandem axle or larger vehicles.”

7030, 3.04 PCC SIDEWALKS, SHARED USE PATHS, AND DRIVEWAYS, B. Concrete Pavement Placement, 2. Sidewalk: Add the following new g:

g. The turning space for a sidewalk or shared use path shall be placed separately from the adjoining ramps and sidewalk or shared use path.

7030, 3.04 PCC SIDEWALKS, SHARED USE PATHS, AND DRIVEWAYS, F. Jointing: 4. Isolation Joints: Delete b. and replace it with the following new b.

b. For a sidewalk constructed with a driveway, install a ½” expansion joint on the property side of the sidewalk and a ½” expansion joint on the street side of the sidewalk.

7030, 3.05 HMA SHARED USE PATHS AND DRIVEWAYS: Add the following second sentence: When Hot Mix Asphalt is delivered to the project on the prepared subgrade or subbase, the loads shall be limited to 5 tons for single axle vehicles or 10 tons for tandem axle or larger vehicles.

7030, FIGURE 7030.101, CONCRETE DRIVEWAY, TYPE A: Delete the references to “E Joint” on the property side of the sidewalk and “C or E Joint” on the street side of the sidewalk, and replace with “install a ½” expansion joint on the property side of the sidewalk and a ½” expansion joint on the street side of the sidewalk”. In addition, install a ½” expansion joint in the sidewalk at the extension of both edges of the driveway. Delete 7 and replace with the following 7; “Install a ½” expansion joint at the back of curb.”

7030, FIGURE 7030.102, CONCRETE DRIVEWAY, TYPE B: Delete the references to “E Joint” on the property side of the sidewalk and “C or E Joint” on the street side of the sidewalk, and replace with “install a ½” expansion joint on the property side of the sidewalk and a ½” expansion joint on the street side of the sidewalk.”
the sidewalk”. In addition, install a ½” expansion joint in the sidewalk at the extension of both edges of the driveway.

7030, FIGURE 7030.201, CLASSES OF SIDEWALKS: The detail for CLASS A SIDEWALK shall be revised to delete the “4” min.” thickness dimension of the sidewalk and replace with “5” min.”.

7030, FIGURE 7030.202, CURB DETAILS FOR CLASS A SIDEWALK: On Detail 3 delete the note “Sealed ‘E’ joint” and replace it with the following note “Sealed ‘B’ joint”. On Detail 1, 2, and 3 delete the “4 min.” thickness dimension of the sidewalk and replace with “5” min.”.

SECTION 9010 – SEEDING

9010, 3.02 – AREA OF SEEDING: Add A. and B.

A. Mobilize within 72 hours of a written order with sufficient labor, equipment, and materials to seeding work as ordered or approved by Engineer. Complete work within 7 calendar days of a written order.

B. Failure to mobilize and complete work within such time period, will result in a deduction of $750.00 per calendar day from payment due under the contract, except when Engineer extends such time period.

SECTION 9020 – SODDING

9020, 3.03 – SOD INSTALLATION: Delete A. and replace it with the following new A.

A. Do not install sod between the dates of June 1 and August 31, unless authorized by the Engineer.

B. Mobilize within 72 hours of a written order with sufficient labor, equipment, and materials to sod installation as ordered or approved by Engineer. Complete work within 7 calendar days of a written order.

C. Failure to mobilize and complete work within such time period, will result in a deduction of $750.00 per calendar day from payment due under the contract, except when Engineer extends such time period.

SECTION 9040 – EROSION AND SEDIMENT CONTROL

9040, 1.03 – SUBMITTALS: Add the following sentences: The Jurisdiction will not approve the contractor’s Stormwater Pollution Prevention Plan (SWPPP) or revisions to the SWPPP; instead, the Jurisdiction will only review and comment on the SWPPP and any revisions. The contractor shall submit to the Engineer a copy of the Iowa Department of Natural Resources authorization prior to the Jurisdiction’s issuance of the Notice to Proceed for the work.

9040, 1.08 – MEASUREMENT FOR PAYMENT, A. Stormwater Pollution Prevention Plan (SWPPP): Delete A. in its entirety and replace with the following A.

A. Stormwater Pollution Prevention: Item will be paid for as a lump sum for the project based on the following formula: 30% of the bid amount after review of the SWPPP by the Engineer and filing a Notice of Intent by the contractor, an additional 20% of the bid amount when 25% of the total original contract amount is earned, an additional 20% of the bid amount when 50% of the total original contract amount is earned, an additional 20% of the bid amount when 75% of the total original contract amount is earned, and the remaining 10% of the bid amount upon filing the Notice of Discontinuation by the contractor. Item shall include the following activities and work:

1. Stormwater Pollution Prevention Plan (SWPPP) Preparation: Item includes reviewing and preparation of any modifications necessary to the general SWPPP provided by the Jurisdiction based on the Contractor’s proposed scheduling and construction methods, filing a Notice of Intent for coverage of the project under the Iowa DNR NPDES General Permit No. 2, and payment of associated NPDES permit fees. The Jurisdiction will publish the Public Notice of
Storm Water Discharge and provide an affidavit of publication to the contractor.

2. **Management:** Item includes all work required to comply with the administrative provisions of the Iowa DNR NPDES General Permit No. 2; including record keeping, documentation, updating the SWPPP, filing the Notice of Discontinuation, etc. Item also includes weekly inspections required to satisfy the provisions of General Permit No. 2, unless otherwise stated in the contract documents.

3. **Inspection:** Item includes inspection of the disturbed areas, and erosion and sediment control measures performed by the contractor, at least once every seven (7) calendar days until the disturbed areas have been stabilized with a perennial vegetative cover of sufficient density to preclude erosion.

4. **Additional Erosion and Sediment Control Measures:** Item includes the cost of erosion and sediment control measures included in the contractor’s modifications to the general SWPPP provided by the Jurisdiction that are either not included as bid items on the proposal or exceed 20% of the proposal unit quantity for the measure, as well as replacement of these measures if needed. The contractor will be paid at the unit bid price for additional erosion and sediment control measures constructed that are included in the contractor’s modifications to the general SWPPP provided by the Jurisdiction when the quantity of these additional measures is less than or equal to 20% of the contract quantity for the measure.

**9040, 3.01 – SWPPP PREPARATION:** Delete in its entirety and replace with the following.

A. Review and prepare any modifications necessary to the general SWPPP provided by the Jurisdiction based on the Contractor’s proposed scheduling and construction methods. Prepare a Stormwater Pollution Prevention Plan (SWPPP) according to the requirements of the Iowa DNR NPDES General Permit No. 2.

B. Have the SWPPP prepared by an individual experienced in erosion and sediment control.

C. Ensure that controls utilized in the SWPPP conform to the type and quantity of erosion and sediment controls shown in the contract documents. See 9040,1.08, 4 above for measurement for payment of any erosion and sediment control measure used that is not shown in the contract documents or exceeds 20% of the contract quantity for the measure.

D. Submit the completed SWPPP to the Engineer for review and comment prior to filing the Notice of Intent.

E. The Jurisdiction will publish the Public Notice of Storm Water Discharge, as required by the NPDES General Permit No. 2 and provide an affidavit of publication to the contractor.

F. File the Notice of Intent and fee, as required by the NPDES General Permit No. 2.

G. Prior to beginning grading, excavation, or clearing and grubbing operations, all erosion and sediment control measures identified in the SWPPP shall be installed or constructed.

**9040, 3.02 – SWPPP MANAGEMENT:** Delete C. in its entirety and replace with the following C.

C. Submit all SWPPP revisions to the Engineer for review and comment.

**SECTION 9080 – CONCRETE STEPS AND HANDRAIL**

**9080, 2.01 – MATERIALS, B. Reinforcing Steel:** Add the following sentence at the end: “All reinforcement shall be epoxy coated.”