For The
“Repair and Expansion of Landfill Permanent Litter Fence” Project

Bid No. S-16-20

BID OPENING: Friday, July 10, 2020 at 2:00 p.m.

In the
City Purchasing Office
Room 307, Municipal Building
2101 O'Neil Avenue
Cheyenne, WY 82001

Inquiries Regarding This Bid Should Be Directed To:
City of Cheyenne, Purchasing Manager, TJ Barttelbort
Phone: (307) 773-1045, Email: tbarttelbort@cheyennecity.org
INVITATION FOR BID  
#S-16-20

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INVITATION FOR BIDS</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>INSTRUCTIONS TO BIDDERS</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>PROPOSAL FORMS</td>
<td>14</td>
</tr>
<tr>
<td>4</td>
<td>NOTICE OF AWARD, NOTICE TO PROCEED, AND OTHER FORMS</td>
<td>21</td>
</tr>
<tr>
<td>5</td>
<td>AGREEMENT AND PERFORMANCE PAYMENT BONDS</td>
<td>30</td>
</tr>
<tr>
<td>6</td>
<td>GENERAL CONDITIONS</td>
<td>35</td>
</tr>
<tr>
<td>7</td>
<td>SPECIFICATIONS</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>ADMINISTRATIVE INSTRUCTIONS</td>
<td>END OF BOOK</td>
</tr>
</tbody>
</table>

FY 2020
The Governing Body of the City of Cheyenne, Wyoming (“the Governing Body”) will receive sealed bid proposals at the Office of the City Purchasing Agent, located in Room 309 of the Municipal Building at 2101 O’Neil Avenue, Cheyenne, WY 82001, until 2:00 p.m. local time on the 10th day of July, 2020 for the “Repair and Expansion of Landfill Permanent Litter Fence” project.

At the aforementioned time and place, such bids that are received for the project shall be publicly opened and read aloud.

The work to be performed will be in accordance with the plans and specifications on file in the City Purchasing Agent’s office. Bidding documents may be downloaded online at https://www.cheyennecity.org/Bids.aspx.

An Optional pre-bid meeting will be held at 2:00 PM, on June 18th, 2020, at the Project Site Location, City of Cheyenne Landfill, 1461 Happy Jack Rd, Cheyenne, WY 82009.

A bid guarantee in the amount of five percent (5%) of the total bid shall accompany any bid submitted. See Section 8.00 of Instructions to Bidders. The successful bidder shall furnish and pay for satisfactory performance and payment bonds in the amount of one hundred percent (100%) of the accepted bid. See Section 19.00 of Instructions to Bidders.

The City of Cheyenne (“the City”) reserves the right to reject any or all bids or to waive any formalities in the bidding.

Prior to the award of the contract, the City may hold bids for a period not to exceed sixty (60) calendar days from the date of opening of bids for the purpose of reviewing the bids and investigating the qualifications of the bidders. Provisions of Wyo. Stat. § 15-1-113, incorporated by reference, are made an express part of the Contract Documents.

TJ Barttelbort
Purchasing Division

Publication Dates: June 12, 19, 2020
Published in: Wyoming Tribune Eagle
PART 2 - INSTRUCTIONS TO BIDDERS
CITY OF CHEYENNE, WYOMING

1.00 USE OF SEPARATE BID FORMS

These Contract Documents include a complete set of bidding and contract forms which are for the convenience of bidders. Bidders shall make proposals upon the forms furnished herein and pursuant to the instructions and requirements set forth herein.

2.00 INTERPRETATION OF DOCUMENTS

The City will not provide oral interpretations to any bidder as to the meaning of the Contract Documents or any part thereof. If any person contemplating submitting a proposal requires interpretation or clarification regarding the meaning of any part of the drawings, specifications, or other portions of the contract documents, or finds discrepancies in or omissions from the drawings or specifications, that bidder shall submit a written request for interpretation, clarification, or correction thereof to the City of Cheyenne, hereinafter “City”. The bidder submitting the request will be responsible for its prompt delivery. Questions shall be directed to the City Purchasing Manager, by e-mail at tbarttelbort@cheyennecity.org. Questions will be received until 5:00 pm local time on June 22, 2020, after which no additional questions will be accepted. The City will provide a response via Addendum no-later-than June 26, 2020 at 5:00 P.M. local time.

3.00 ADDENDA

The City will make every interpretation, clarification, or correction to bidders by written addendum to the Contract Documents. The City will make reasonable efforts to mail, e-mail, or fax addenda to persons identified on the City’s plan-holders list, but it shall be the bidder’s responsibility to make inquiry as to the addenda issued. It shall also be the bidder’s responsibility to confirm that it is included on the City’s plan-holders list. The bidder shall acknowledge all addenda issued during the time of bidding in the bid proposal and shall be made a part of the Contract. The City will consider as incomplete any bid proposal in which all addenda are not acknowledged.

4.00 DEFINITIONS AND TERMS

Contract Documents: All documents in the bidding packet, including addenda, as identified in Part V, Article 5.

Contract Modification: A written document that must, at minimum, be executed by the Contractor and by the Mayor of the City of Cheyenne. A Contract Modification may require the approval of the City’s Governing Body. A contract modification must be executed to change the Contract Price, Contract Time, or to otherwise modify the Contract Agreement.

Contract Price: The original amount bid by the contractor, as specified in Article 4 of the Agreement and modified by any Contract Modifications.
Contract Time: Begins upon the date specified in the Notice to Proceed and consists of the number of calendar days up to and including the date specified in Part V, Article 3.

Field Order: A form issued by the City Engineer (“Engineer”) to authorize the Contractor to proceed with changes or additions to the work as described in a Work Directive or a Request for Adjustment. A Field Order may either increase or decrease quantities or authorize work for payment under a Force Account, if included in the bid, but cannot increase the Contract Price.

Force Account: A method of payment for work performed by the Contractor at the Engineer’s discretion and calculated in accordance with Part VI, Section 14.

Request for Adjustment: A form issued by the Engineer to allow the Contractor to request an adjustment of the Contract Time, the Contract Price, or to request any other modification of the Contract Agreement. The Contractor shall also use this form for submitting pricing as a result of a Work Directive.

Work Directive: A form issued by the Engineer to inform the Contractor of a change in the Work which does not alter the Contract Time, the Contract Price, or any other provisions of the Contract Agreement. If a change in the Work will increase the Contract Price, the City must approve and execute a Contract Modification before the Contractor may proceed with the Work as modified.

5.00 SITE INSPECTION AND CONTRACT DOCUMENTS EXAMINATION

Each bidder shall visit the proposed work site and become acquainted with the existing conditions of the site. Then, in preparing and submitting bids, contractors should take into account the observed existing conditions, construction necessities, required labor, facilities involved, and difficulties and restrictions that may be encountered in contract performance. If possible, the City will conduct a tour of the work areas. All interested parties should contact Matt Theriault in the City’s Public Works Office, at 307-637-6279.

Each bidder should also thoroughly examine and become familiar with the Drawings, Technical Specifications, and all other Contract Documents.

The selected bidder, by executing a contract, shall in no way be relieved of any obligation under it due to the selected bidder’s failure to review or examine any form, legal instrument, or to become acquainted with existing conditions in the work area. The City will be justified in rejecting any claim based on facts which the selected bidder knew or should have been aware of as a result of inspecting the site and Contract Documents.

6.00 ALTERNATE BIDS

The City will not consider alternate bids unless alternate bid items are specifically requested by the Specifications and the bid proposal.
7.00 BID PROPOSAL REQUIREMENTS

Bidders shall submit all bids on forms supplied by the City, and all such bids are subject to the Contract Documents requirements. All bids shall be regular in every respect. The bidder shall not make or include any interlineation, excisions, or special conditions in the bid forms. The bidder shall explain or note, in conjunction with its signature, any erasures or other changes in the bids.

The bidder shall submit bid documents, including the Bid Proposal, Bid Guarantee, Non-Collusion Affidavit of Prime Bidders, and Sub-Contractors and Material Suppliers List, to the City Purchasing Division in a sealed envelope. The envelope shall bear the bidder’s name and address, the project name, bid number, and the date and time of bid opening in order to guard against premature opening of the bid proposal.

The City may consider as irregular any bid on which there is an alteration of or departure from the bid form provided and, at its option, may reject the bid.

Award of a contract resulting from this bid will be based on Section 15.00 below.

The bidder shall correctly fill in the blank spaces on the proposal form and state the unit or lump sum prices in the spaces provided. All proposals shall be totaled, and in the case of errors or discrepancies, the unit or lump sum prices shall govern.

Each bidder shall sign and display the name and address of the bidder in the blank spaces provided. If the bid is made by a sole proprietorship or partnership, the name and address of the sole proprietorship or partnership shall be shown, together with the names and addresses of the proprietor or partners. If the proposal is made by a corporation or other business entity, an official who is authorized to bind the corporation or other business entity shall sign in the name of such corporation or business entity.

The City will consider as incomplete and may reject any bid not displaying the information required by this Section.

City representatives and the successful bidder shall hold a pre-construction conference upon contract award. This conference will be for the purpose of reaching a complete understanding with the successful bidder concerning quality of work expected, work schedule and time of completion, work progress, and coordination of all construction.

8.00 BID GUARANTEE

Each bid proposal shall be accompanied by a bid guarantee which shall not be less than five percent (5%) of the bid amount.

The 5% bid guarantee may be in the form a bid bond secured and issued by a surety or guaranty company authorized to do business in the State of Wyoming or a cashier’s check made payable to the City of Cheyenne. Cash deposits, personal checks or company checks (unless certified) will not be accepted.
If the bid guarantee is to be submitted in the form of a bid bond, bidders must use the attached bid bond form. No deviation from the attached form will be allowed. If a surety company’s bid bond form is used, the wording shall be exactly as shown on the City’s bid bond form. No bid will be considered unless it is accompanied by the required guarantee. The bid guarantee shall ensure the execution of the agreement. The successful bidder shall furnish a surety bond as required by the Contract Documents.

If the Contractor (i) withdraws the bid within sixty (60) calendar days after bid opening, (ii) fails to provide performance and payment bonds, (iii) or fails to provide the minimum insurance certificates within the time required by Wyo. Stat. § 15-1-113 after the City accepts the proposal, then the bidder shall be liable to the City for default in the amount set forth on the bid bond as liquidated damages for said default.

Bid guarantees of unsuccessful bidders will be returned as soon as practicable after bid proposals are opened.

9.00 COLLUSIVE AGREEMENTS

Each bidder submitting a bid to the City for any portion of the work contemplated by the documents on which bidding is based shall execute and attach thereto an affidavit substantially in the form herein provided to the effect that he or she has not colluded with any other person, firm, or corporation in regard to any bid submitted.

10.00 STATEMENT OF BIDDER QUALIFICATIONS

Each bidder shall, upon the City’s request, submit satisfactory evidence that the bidder has practical knowledge of the particular work being bid upon, and has the necessary financial resources required to complete the proposed work. In awarding the contract, the City will give due consideration to the ability, reliability, work load, and general reputation of each bidder, as well as the City’s past experience with the bidders.

Each bidder, upon the City’s request, shall show that prior work performed by the bidder has been handled in such a manner that there are no just or proper claims against such work.

No bid proposal will be acceptable if the bidder is engaged in any other work which impairs his or her ability to finance this contract or provide equipment for the proper execution of the contract.

11.00 UNIT PRICES

If unit prices are called for, the unit price of each item in the proposal shall include the pro rata share of overhead and profit. As such, the sum of the products obtained by multiplying the quantity shown for each item by the unit price bid equals the total bid. The City may reject as irregular any bid not conforming to this requirement. Bidders should pay special attention to this provision.

If conditions make it necessary to revise bid quantities, no limit will be fixed for such quantity revisions, provided the net cash value of all such additive and subtractive changes shall not change the original, total contract price by more than twenty percent (20%). The
quantities appearing on the proposal form are approximate and are prepared for the comparison of bids. Payment to the contractor will be made only for the actual, accepted quantities of work performed and materials furnished in accordance with the contract.

The presence of any unit bid price that generates reasonable doubt that award to that bidder would result in the lowest ultimate cost to the City may be rejected as irregular.

12.00 TIME FOR RECEIVING BIDS

Bid proposals received before the advertised time for opening bids will be kept securely sealed until the time arrives to open bids. The officer whose duty it is to open bids will decide when the specified time has arrived, and no bid received thereafter will be considered.

13.00 BID OPENING

At the time and place fixed for opening bids, the City will open and publicly read aloud every bid received within the time set for receiving bids, irrespective of any irregularities therein. Bidders and other persons properly interested may be present in person or by representative.

14.00 BID WITHDRAWAL

Bids may be withdrawn by written or faxed request at any time prior to the scheduled closing time for receipt of proposals.

15.00 CONTRACT AWARD AND BID REJECTION

The City will award the contract to the most qualified and responsible bidder, as determined in the City’s sole discretion, who submits the lowest total responsive bid shown on Itemized Bid Sheet “A” plus “B”. This bid must also be less than funds available for this project. The City reserves the right to reject a bid if the total bid shown on the last Itemized Bid Sheet is not identical to the total bid shown on the Bid Proposal Sheet, included in this Bid Packet. The City reserves the right to reject a bid if the total bid price shown on the last Itemized Bid Sheet is not calculated correctly.

The City reserves the right to reject any or all proposals or to waive any formality or irregularity in any proposal in the interest of the City. No bidder may withdraw his proposal for a period of sixty (60) calendar days after the date of opening thereof.

16.00 FUNDS PROGRAMMED

The funds programmed for construction are estimated to be sufficient to provide for the proposed work shown on the plans. In the event contract unit prices indicate a total cost of the project in excess of the allotted funds, the project length may be shortened or quantities decreased to keep the cost of work within the funds allocated to the project. Similarly, if the contract unit prices indicate a total cost of the project less than the allotted funds, the length of the project may be increased and quantities added to ensure the allotted funds for the project are used.
17.00 PREFERENCE FOR STATE LABOR AND MATERIALS

Pursuant to Wyo. Stat. § 16-6-104, Wyoming made materials and products, and Wyoming suppliers of products and materials of equal quality and desirability shall have preference over materials or products produced or supplied outside the state and any contract let shall so provide. The City shall apply the preference created by Wyo. Stat. § 16-6-104 in a manner identical to the preference for resident contractors in Wyo. Stat. § 16-6-102.

Pursuant to Wyo. Stat. § 16-6-102, the City shall award the contract to the responsible, certified resident making the lowest responsible bid, if the certified resident’s bid is not more than five percent (5%) higher than the lowest responsible, nonresident bidder.

Pursuant to Wyo. Stat. § 16-6-103, a successful resident bidder shall not subcontract more than thirty percent (30%) of the work covered by the contract to nonresident contractors.

Pursuant to Wyo. Stat. § 16-6-106, preference is hereby given to materials, supplies, agricultural products, equipment, machinery, and provisions produced, manufactured, or grown in Wyoming, or supplied by a state resident, quality being equal to articles offered by the competitors outside of the state.

Pursuant to W.S.§ 16-6-107, the structure or structures to be constructed pursuant to this invitation to bidders shall be constructed and maintained by materials produced or manufactured in Wyoming if Wyoming materials are suitable and can be furnished in marketable quantities. Preference shall not be granted for materials of an inferior quality to those offered by competitors outside of the state, but a differential of five percent (5%) shall be allowed in cost of contracts Wyoming materials produced or manufactured in Wyoming.

Pursuant to Wyo. Stat. § 16-6-203, the successful bidder shall employ only Wyoming laborers on the project, and the contract awarded to the successful bidder shall contain a provision requiring that Wyoming labor be used, except other laborers may be used when Wyoming laborers are not available for employment within the state, or are not qualified to perform the work involved. In addition, the contract shall contain a provision requiring specific acknowledgement of the requirements of this section. The successful bidder may employ laborers other than Wyoming laborers if:

(i) The successful bidder informs the nearest state workforce center of his employment needs at least eleven (11) calendar days before work is commenced;

(ii) The state workforce center certifies that the bidder’s need for laborers cannot be filled from those Wyoming laborers listed with the Wyoming Department of Workforce Services. The department shall respond to a bidder’s request for certification within ten (10) calendar days of the date the information is filed; and
(iii) The successful bidder shall also agree to promptly respond to requests from the Wyoming Department of Workforce Services for the most recent construction schedule for the project.

18.00 CERTIFICATE OF RESIDENCY STATUS FOR IN-STATE PREFERENCE

Wyoming Contractors desiring residency status for the purpose of obtaining the five percent (5%) preference for resident bidders on public works projects must be so certified by the Wyoming Department of Workforce Services. No bidder may be considered a resident for the purpose of the five percent (5%) preference unless his residency has been certified as provided in Wyo. Stat. § 16-6-101.

19.00 AGREEMENT EXECUTION, PERFORMANCE, AND PAYMENT BONDS

Subsequent to the award and within fifteen (15) calendar days after the prescribed forms are presented for signature, the successful bidder shall execute and deliver to the City an agreement in the form included in the Contract Documents in such number of copies as the City may require and at the same time shall also provide the insurance, Workers Compensation and Unemployment insurance certificates, and the performance and payment bonds. The performance and payment bonds will remain active for the two (2) year warranty period, which is the two (2) year period following the City’s acceptance of the substantial completion certificate. If the Contractor is required to perform corrections in the work of the project in the two (2) year warranty period, the Contractor shall provide copies of their current insurance, Worker’s Compensation, and Unemployment Insurance Certificates as required in the original project.

Having satisfied all conditions of award as set forth elsewhere in these documents, the successful bidder shall, within the period specified in paragraph “a.” above, furnish a surety bond, not less than the amount of the contract as awarded, as security for the faithful performance of the contract and a bond in an equal sum as surety for the payment of all persons, firms, or corporations to whom the successful bidder may become legally indebted for labor, materials, tools, equipment, or services of any nature, including utilities and transportation services employed or used by him in performing the work. Such bond or bonds shall be in the same form as that included in the Contract Documents and shall bear the same date as that of the agreement. The current power of attorney for the person who signs for any surety company shall be attached to such bonds. These bonds shall be signed by an authorized agent of the surety company qualified to do business in the State of Wyoming. The successful bidder shall notify the surety of any changes affecting the general scope of the project or change in the Contract Price, and the amount of the bonds shall be adjusted accordingly. The successful bidder shall furnish proof of such adjustment to the City.

The successful bidder’s failure to execute such agreement, or to supply the required bond or bonds within thirty (30) calendar days after the prescribed forms are presented for signature, or within such extended period as the City may grant based upon reasons determined sufficient by the City, shall constitute a default. The City may then award the contract to the next lowest, responsible bidder or re-advertise for bids, and the bid guarantee of the bidder shall be forfeited to the City as liquidated damages as per Wyo. Stat. § 15-1-113(f). The City may also charge against the defaulting bidder the additional
difference between the amount of the original low bid and the amount for which the contract is subsequently let, if the amount exceeds the amount of the bid bond. If a more favorable bid is received by re-advertising, the defaulting bidder shall have no claim against the City for a refund.

If the cost of a payment and performance bond is included in the bid, the successful bidder may receive reimbursement for the costs of the bonds subject to the following requirements. If the bond cost is not included as a bid item, the bond cost shall be deemed to have been included in the Contract Price.

Subsequent to the contract award and compliance with the conditions stated in the preceding paragraph, the successful bidder may submit a written request to the engineer in charge of the project requesting the payment and performance bid item. The successful bidder shall include with this written request, a statement from the insuring firm, indicating the bond cost based on the preliminary estimate of the cost of the contract or as adjusted by the final contract price. Payment for the bond cost will be computed on the basis of the final Contract Price or on the basis of the preliminary cost estimate of the contract, whichever is less. The payment for a payment and performance bond may be adjusted upon project completion based on approved modifications to the Contract Price.

20.00 Sales and Use Tax Provisions

The successful bidder shall abide by Wyo. Stat. § 39-15-101 et seq., and Wyo. Stat. § 39-16-101 et seq., relating to Sales and Use Taxes. In particular, the successful bidder shall abide by the guidance provided in State of Wyoming, Department of Revenue Bulletin, “Use Tax and You” issued December 5, 2012, revised July 1, 2014. This Bulletin is available on-line through the Wyoming Department of Revenue’s website. If the Contractor has difficulty locating the Bulletin, they may contact the Wyoming Department of Revenue for assistance.

The successful bidder shall cause all subcontractors to abide by and perform their work on the same terms and conditions as provided above. The successful bidder shall cause the above statements to be inserted in any contract or agreement between the successful bidder and subcontractors.

The successful bidder shall notify the Wyoming Department of Revenue, Excise Tax Division, when they begin work on any project in the State of Wyoming. The notice shall include the project name, specific project location and contract amount. Questions regarding sales and use taxes should be directed to the Wyoming Department of Revenue, Excise Tax Division at (307) 777-5204.

21.00 Trade Name Provisions

When in the specifications or drawings, an item is identified by a manufacturer’s name, trade name, catalog number, or reference, the bidder proposes to furnish the item so identified and does not propose to furnish an “equal” unless the proposed “equal” is clearly communicated to the City by the bidder, and the bidder has obtained prior certification from the City for approval of the proposed “equal”.
The reference to a manufacturer’s name, trade name, or catalog number is intended to be descriptive, but not restrictive, and only to indicate to the bidder articles that will be satisfactory. Bids on other makes, catalog numbers, etc., will be considered, provided each bidder clearly states on the bid proposal exactly what the bidder proposes to furnish, and has submitted to the City, at least seven (7) calendar days prior to the bid opening date, illustrations, specifications, or other descriptive matter which clearly indicate the character of the article(s) to be covered by the bid, and has obtained the prior approval of the City for the proposed “equal”.

The City reserves the right to approve as an equal, or to reject as not being equal, any article the bidder proposes to furnish which contains major or minor variations from specifications but which may comply substantially therewith.

22.00 RETAINAGE ADMINISTRATION FOR CONTRACTS EXCEEDING $25,000.00

The City will withhold ten percent (10%) of the work’s dollar value completed throughout the contract term. For contracts more than $25,000.00, the successful bidder shall designate a depository to serve as custodian for the retained funds in accordance with Wyo. Stat. § 16-6-701 through § 16-6-706. The retainage will be deposited in an interest-bearing account in the successful bidder’s name. Interest income will be paid to the successful bidder as collected or as otherwise instructed by the successful bidder. All expenses incurred for this service will be charged to the successful bidder and deducted from payments due and retained funds.

No payments returning retainage from this fund will be made until the City has determined that satisfactory and substantial reasons exist for the payment, and the required Certificate of Completion; Affidavit of Release of Liens; Contractor’s Final Waiver of Liens; Sub-Contractor’s Final Waiver of Liens; Consent of Surety for final payment; Sworn Statement for Final Payment Pursuant to Wyo. Stat. § 16-6-116 and § 16-6-117; and Engineer’s Certificate of Completion have all been received by the City, and all the items on the punch list have been completed.

23.00 SUB-CONTRACTORS, MATERIALMEN PROTECTION UNDER A BOND OR GUARANTEE; LIMITATIONS.

For contracts of $50,000.00 or more, the Contractor shall post on the construction site a prominent sign citing Wyo. Stat. § 16-6-121 and stating that any Sub-Contractor or materialmen shall give notice to the Contractor of a right to protection under the bond or guarantee and that failure to provide the notice shall waive the Sub-Contractor or materialmen’s protection under the bond or guarantee and shall waive any right to a lien for material or services provided. The sign shall contain the following language:

“Notice of right to protection under a bond or guarantee:

- Any Sub-Contractor or materialmen entitled to bond protection or other form of guarantee approved by the State or any political subdivision under Wyo. Stat. § 16-6-112, shall give notice to the Contractor of the right to that protection.”
• The Sub-Contractor or materialman shall give notice to the Contractor no later than sixty (60) calendar days after the date on which the services or materials are first furnished.

• The Sub-Contractor or Materialman shall send notice to the Contractor by certified mail or hand-deliver to the Contractor or agent. Notice by certified mail is effective on the date the notice is mailed.

• The notice shall be in writing and shall state that it is notice of a right to protection under the bond or guarantee. The notice shall be signed by the Sub-Contractor or Materialmen and shall include the following information:
  o The Sub-Contractor’s or Materialmen’s name, address, and phone number and the name of a contact person;
  o The name and address of the Sub-Contractor’s or Materialmen’s vendor; and
  o The type or description of the materials or services provided.
  o Failure to give notice to the Contractor who has complied with subsections (f) and (g) of Wyo. Stat. § 16-6-121, waives the Sub-Contractor or Materialmen’s protection under the bond or guarantee and waives any right to a lien for materials or services provided.”

24.00 PERMITS AND LICENSES

The Contractor shall obtain all permits necessary to execute the work. Fees will be waived for permits issued by the City. Permits may be required by other entities which are not furnished or paid for by the City. The successful bidder and its subcontractors shall be required to hold and pay for any licenses required and shall also pay for all public utility charges.

25.00 PRE-BID CONFERENCE

An OPTIONAL pre-bid meeting will be held at 2:00 PM, on June 18th, 2020, at the Project Site Location, City of Cheyenne Landfill, 1461 Happy Jack Rd, Cheyenne, WY 82009. Representatives of the City will be present to discuss the Project.
PART 3 – PROPOSAL FORMS
CITY OF CHEYENNE, WYOMING

CITY OF CHEYENNE BID PROPOSAL FORM

<table>
<thead>
<tr>
<th>BID NO.</th>
<th>S-16-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN DATE:</td>
<td>July 10, 2020</td>
</tr>
<tr>
<td>TIME:</td>
<td>2:00 PM</td>
</tr>
<tr>
<td>PROJECT:</td>
<td>Repair and Expansion of Landfill Permanent Litter Fence</td>
</tr>
</tbody>
</table>

TO: GOVERNING BODY
CITY OF CHEYENNE
2101 O’NEIL AVENUE
CHEYENNE, WY 82001
(Submit bids to the City Purchasing Division, Room 309, Municipal Bldg. at 2101 O’Neil Avenue)

1. Pursuant to and in full compliance with all Bidding Documents, the undersigned Bidder hereby proposes to furnish all the labor and materials and to perform all the work required for the complete and prompt execution of everything described or shown in or reasonably implied by the Bidding Documents, including the Drawings and Specifications, for the work above indicated for the monies stated herein, which includes all State, County and local taxes normally payable in respect to such work when done for an entity not entitled to any exemption from such taxes. The amounts stated include all allowances for profit and overhead, taxes, fees and permits, transportation, services, tools and equipment, labor and materials and other incidental costs.

2. The Bidder has carefully examined the Bidding Documents, including the Drawings and Specifications and the work site, and has fully apprised him/her-self of the conditions affecting the work to be executed, and hereby proposes to construct and complete the above-referenced project, all in accordance with the Bidding Documents, at and for the following sum, as reflected in the total on the attached itemized bid sheets:

$______________________________Dollars

3. This Bid Proposal is accompanied by the required Bid Guarantee of five percent (5%) based upon the total cost of all items required to be bid. The City of Cheyenne is authorized to hold said Bid Guarantee for a period of not more than sixty (60) calendar days after the opening of the bids for the purpose of evaluating bids prior to award. If awarded the contract for this work, the undersigned Bidder agrees to execute the Agreement and furnish the required Bonds and Insurance Certificates within thirty (30) calendar days from the date of Notice of Award.

4. Attached hereto is an affidavit in proof that the undersigned has not entered into a collusive agreement with any person in respect to this bid or any other bid or the submitting of bids for which this bid is submitted.
5. The undersigned bidder has [ ] has not [ ] been granted a State of Wyoming Certificate of Residency Status. If the bidder has been granted a State of Wyoming Certificate of Residency Status, the undersigned bidder has [ ] has not [ ] subcontracted more than thirty percent (30%) of the work covered by this contract to nonresident bidders, as per Wyo. Stat. § 16-6-103 regarding limitations on subcontracting by resident contractors.

Dated this ___________ day of _________________, ___________.

(Month) (Year)

FIRM NAME:__________________________________________

Bidder’s Legal Stature:
☐ Corporation
☐ Partnership
☐ Individual Sole Proprietorship
☐ L.L.C.
☐ Other:_____________________

State of Incorporation:____________________________________

Bidder’s Address:_____________________________________

_____________________________________________________

_____________________________________________________

Telephone Number:_____________________________________

Email Address: _________________________________________

By:___________________________________________________

(Bidder’s Signature)

Title:_________________________________________________

Witness

The Bidder acknowledges receipt of the following addenda to the Bid Documents (if none, so state):_________________________________________

Addendum No. Dated
_____________________________________________________

City of Cheyenne / Bid S-16-20 / Repair and Expansion of Landfill Permanent Litter Fence / Page 15 of 113
### CITY OF CHEYENNE ITEMIZED BID SHEET FORM

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Unit</th>
<th>Est. Qty</th>
<th>Unit Price (in figures)</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – Option A</td>
<td>Forty (40) foot high litter fence, replacing six (6) 2/50 CCA treated Wood Poles, 350 feet of G295T netting by Christen Net Works and all hardware</td>
<td>LUMP SUM - LS</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 – Option B</td>
<td>Forty (40) foot high Litter Fence, replacing six (6) wooden poles and extending the litter fence an additional 600 feet</td>
<td>FIFTY (50) LINEAR FEET</td>
<td>12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BIDDER: ____________________________  TOTAL BID: ____________________________
CITY OF CHEYENNE NON-COLLUSION
AFFIDAVIT OF PRIME BIDDERS FORM

State of: ____________________________
County of: ____________________________

________________________________, being first duly sworn, deposes and says that:

1. S/he is (owner, partner, officer, representative, or agent) of ____________________________, the bidder that has submitted the attached bid;

2. S/he is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

3. Such bid is genuine and is not a collusive or sham bid;

4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other bidder, firm, or person to submit a collusive or sham bid in connection with the contract of which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement, collusion, communication, or conference with any other bidder, firm or person to fix the price or prices in the attached bid or of any other Bidder; to fix any overhead, profit, or cost element of the bid price or the bid price of any other Bidder; or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City or any person interested in the proposed contract; and

5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the bidder or any of the bidder’s agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed __________________________________________

Subscribed and sworn to before me this ______ day of ____________, ________.

__________________________________________
(Title)                                      (Signature)

My Commission expires________________________
KNOW ALL MEN BY THESE PRESENTS, that____________________________, as Principal, and________________________________________, as Surety, a corporation duly organized under the laws of the State of __________ and authorized to do business within the State of Wyoming, are held and firmly bound unto the City of Cheyenne, Wyoming, in the full and just 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, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal is herewith submitting a Proposal for_________________________________________________________________________.

_________________, and the City of Cheyenne, Wyoming has required as a condition for submitting said Proposal, that said Principal deposit specified Bid Security in an amount not less than five percent (5%) of the amount of said Proposal, conditioned that in event of failure of Principal to execute the contract and furnish the required performance and payment bonds if the contract is awarded to said Principal, that said sum be paid immediately to the City of Cheyenne, Wyoming as liquidated damages, and not as penalty, for the Principal’s failure to perform.

The condition of this obligation is such that if the aforesaid Principal will, within the time required, enter into a formal contract and give such bonds as are specified in the bidding documents with surety acceptable to the City; or if Principal shall fail to do so, pay to the City the sum determined herein as liquidated damages and not as a penalty, then this obligation shall be void; otherwise to remain in full force and effect.

Signed, sealed, and delivered this ______day of__________, _____.

__________________________________________
Witness

Principal (seal)

by_____________________________________

Title_____________________________________

__________________________________________
Witness

Surety (seal)

by_____________________________________

Attorney-in-fact

(Attach Power of Attorney)
List all materials suppliers and subcontractors proposed for this project and return list with bid:

**ATTENTION!**
Any Resident Bidder using Non-Resident subcontractors must fill in the percentage of work being done by the subcontractor.

<table>
<thead>
<tr>
<th>WORK</th>
<th>SUBCONTRACTOR OR MATERIAL SUPPLIER</th>
<th>CITY/STATE</th>
<th>% OF WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BID SUBMISSION CHECKLIST

THE FOLLOWING CHECKLIST REPRESENTS THE REQUIRED FORMS TO BE EXECUTED AND DOCUMENTS TO PREPARE. THESE FORMS AND DOCUMENTS ARE TO BE INCLUDED IN THE CONTRACTOR’S SUBMITTED BID PACKAGE.

COMPLETED & INCLUDED

1. City of Cheyenne Bid Proposal Form [ ]
2. Bid Price Total [ ]
3. Itemized Bid Schedule [ ]
4. Sub-Contractors and Material Suppliers List [ ]
5. Non-Collusion Affidavit of Prime Bidders [ ]
6. Bid Security / Bid Guarantee [ ]
7. Acknowledgement of Addenda (If Any) [ ]
8. Drawing of fence design (one panel’s worth) [ ]
9. Design specifications of hardware and other material [ ]
10. Assumptions for the fence design [ ]
11. Submit three references from the last five years [ ]
To Whom It May Concern:

The City of Cheyenne, having duly considered the proposals submitted on ___/____/____ for the construction of “Repair and Expansion of Landfill Permanent Litter Fence”, as outlined in these Contract Documents, and it appearing that your Proposal for performing the work outlined is fair, equitable, and in the City’s best interest, the bid items are hereby accepted at the bid prices contained therein.

In accordance with the terms of these Contract Documents, you are required to execute the formal Agreement and furnish the required Performance and Payment Bonds within thirty (30) calendar days from and including the date of this notice.

In addition, you are required to furnish at the same time a copy of Certificate of Insurance evidencing compliance with the requirements for insurance stated in the Bidding Documents, including unemployment insurance, and a copy of your Worker’s Compensation Certificate.

The Bid Guarantee submitted with your Proposal will be retained until the Agreement has been executed and the required Performance and Payment Bonds have been furnished and approved. In event that you should fail to execute the contract and furnish the Performance and Payment Bonds within the time limit specified, the said bid security will be retained as liquidated damages and not as penalty for the delay and extra work caused thereby.

CITY OF CHEYENNE, WYOMING

By____________________________________

Purchasing Manager
CITY OF CHEYENNE
NOTICE TO PROCEED FORM

<table>
<thead>
<tr>
<th>BID NUMBER:</th>
<th>S-16-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE:</td>
<td></td>
</tr>
<tr>
<td>TO:</td>
<td></td>
</tr>
</tbody>
</table>

You are hereby authorized to proceed on this date, _______________ with the construction of “Repair and Expansion of Landfill Permanent Litter Fence” as set forth in detail in the Contract Documents. No work may be done at the site prior to the date stated above.

CITY OF CHEYENNE, WYOMING

By__________________________

Purchasing Manager

The Contractor is required to return an acknowledged copy of this Notice to the City.

Acknowledged:

<table>
<thead>
<tr>
<th>Contractor:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>By [Printed Name]:</td>
<td></td>
</tr>
<tr>
<td>By: [Signature]:</td>
<td></td>
</tr>
<tr>
<td>Title:</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td></td>
</tr>
</tbody>
</table>
This is to certify that I, ______________________________, am an authorized official of ______________________________, working in the capacity of ______________________________, and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the contract drawings and specifications.

The contract work is now complete in all parts and requirements, and ready for your final inspection.

I understand that neither the determination by the Engineer/Architect that the work is complete, nor the acceptance thereof by the Owner, shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

BY:_____________________________________

TITLE:___________________________________

FOR:___________________________________
### CITY OF CHEYENNE
CONSENT OF SURETY FOR FINAL PAYMENT FORM

<table>
<thead>
<tr>
<th>PROJECT NAME:</th>
<th>Repair and Expansion of Landfill Permanent Litter Fence</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCATION:</td>
<td></td>
</tr>
<tr>
<td>PROJECT NUMBER:</td>
<td><strong>S-16-20</strong></td>
</tr>
<tr>
<td>TYPE OF CONTRACT:</td>
<td></td>
</tr>
<tr>
<td>AMOUNT OF CONTRACT:</td>
<td></td>
</tr>
</tbody>
</table>

In accordance with the provisions of the above-named contract between the Owner and the Contractor, the following named surety:

___________________________________________________________________
___________________________________________________________________
___________________________________________________________________

On the Payment Bond of the following named Contractor:

___________________________________________________________________
___________________________________________________________________
___________________________________________________________________

hereby approves of final payment to the Contractor, and further agrees that said final payment to the Contractor shall not relieve the Surety Company named herein of any of its obligations to the following named Owner as set forth in said Surety company’s bond:

___________________________________________________________________
___________________________________________________________________
___________________________________________________________________

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand and seal this ________ day of ________________________, ______.

______________________________________________
(Name of Surety Company)

______________________________________________
(Signature of Authorized Representative)

(Affix corporate seal here)

Title ________________________________________
TO ALL WHOM IT MAY CONCERN:

WHEREAS, the undersigned has been employed by

A. 

to furnish labor and materials for

B. 

work, under a contract

C. 

for the improvement of the premises described as

D. 

in the City of Cheyenne, Laramie County, Wyoming, of which the City of Cheyenne is the Owner.

NOW, THEREFORE, this ____ day of ______________, _____, for and in consideration of the sum of 

E. 
dollars, paid simultaneously herewith, the receipt whereof is hereby acknowledged by the undersigned, the undersigned does hereby waive and release any lien rights to, or claim of lien with respect to and on said above-described premises, and the improvements thereon, and on the monies or other considerations due or to become due from the owner, on account of labor, services, material, fixture, apparatus or machinery heretofore or which may hereafter be furnished by the undersigned to or for the above described premises by virtue of said contract.

(F)___________________________________ (SEAL)  

(Name of sole ownership, corporation or partnership)  

_____________________________________

(Signature of Authorized Representative)

TITLE: ________________________________

INSTRUCTIONS FOR FINAL WAIVER:

A. Person or firm with whom you agreed to furnish either labor, or services, or materials, or both.
B. Fill in nature and extent of work; strike the word labor or the word materials if not in your contract.
C. If you have more than one contract on the same premises, describe the contract by number if available, date and extent of work.
D. Furnish an accurate enough description of the improvement and location of the premises so that it can be distinguished from any other property.
E. Amount shown should be the amount actually received and equal to total amount of contract as adjusted.
F. If waiver is for a corporation, corporate name should be used, corporate seal affixed and title of officer signing waiver should be set forth; if waiver is for a partnership, the partnership name should be used, partner should sign and designate himself as partner.
CITY OF CHEYENNE

AFFIDAVIT OF RELEASE OF LIENS

FORM

TO ALL WHOM IT MAY CONCERN:

WHEREAS, the undersigned has been employed by ____________________________ to furnish labor and materials for _________________ work, under a contract _________________ for the improvement of the property described as ___________________________________________ in the city/town of _____________, County of _____________, State of __________________ of which ___________________ ______________________ is the Owner.

NOW, THEREFORE, this _______ day of ________________, _____, the undersigned, as the Contractor for the above-named contract pursuant to the conditions of the contract hereby certifies that to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of work, labor or services, who have or may have liens against any property of the Owner arising in any manner out of the performance of the contract referenced above.

Exceptions: (List names of suppliers and/or subcontractors and amounts owed. If none, write “None.”) The City will withhold the amounts listed below from final payment due the Contractor until these obligations have been satisfied.

CONTRACTOR __________________________________________ (SEAL)

(Name of sole ownership, corporation or partnership)

(Affix corporate seal here)

__________________________________(SEAL)

(Signature of Authorized Representative)

TITLE: ____________________________________

ATTACHMENTS:

1. Contractor’s Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers.
TO ALL WHOM IT MAY CONCERN:

WHEREAS, the undersigned has been employed by ___________________ to furnish labor and materials for ___________________ (work) under contract #_________ for the improvement of the property described as ___________________ in the city/town of _____________, County of ______________, State of ____________ of which ________________________________ is the Owner.

NOW, THEREFORE, this ____ day of ______________, ____, the undersigned, as the Contractor for the above-named Contract pursuant to the Conditions of the Contract hereby certifies that, except as listed below, he has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or his property might in any way be held responsible.

EXCEPTIONS: (If none, write “None.” If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

ATTACHMENTS:
I. Consent of Surety to Final Payment. (Whenever Surety is involved, Consent Of Surety is required.)
II. Contractor’s Release or Waiver of Liens, conditional upon receipt of final payment.
III. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers.
IV. Contractor’s Affidavit of Release of Liens.

CONTRACTOR ________________________________________(SEAL)
(Name of sole ownership, corporation or partnership)

(Affix corporate seal here)

____________________________________(SEAL)
(Signature of Authorized Representative)

TITLE: ______________________________
## CITY OF CHEYENNE
### CONTRACT PAYMENT REQUEST FORM

| DATE: |
| PROJECT: | Repair and Expansion of Landfill Permanent Litter Fence |
| CITY BID NUMBER: |
| CITY CONTRACT NUMBER: |
| CONTRACTOR: |
| CONTRACT PAYMENT REQUEST NUMBER: |
| FOR WORK COMPLETED THROUGH DATE OF: |

The present status of the account for this contract is as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Contract Amount</td>
<td>$</td>
</tr>
<tr>
<td>Net Change by Change Orders to Date</td>
<td>$</td>
</tr>
<tr>
<td>Current Contract Amount</td>
<td>$</td>
</tr>
<tr>
<td>Total Completed to Date</td>
<td>$</td>
</tr>
<tr>
<td>Less 10% Retainage</td>
<td>$</td>
</tr>
<tr>
<td>Total Earned Less Retainage</td>
<td>$</td>
</tr>
<tr>
<td>Less Previous Payments</td>
<td>$</td>
</tr>
<tr>
<td>Total Payment Due</td>
<td>$</td>
</tr>
<tr>
<td>Total Retainage Due</td>
<td>$</td>
</tr>
</tbody>
</table>

### Contractor’s Certification:

The undersigned Contractor certifies that: (1) all previous progress payments received from the City on account of work done under the Contract referred to above have been applied to discharge Contractor’s legitimate obligations incurred in connection with work covered by prior Contract Payment Request numbered one through _____ inclusive; (2) title of all work, materials and equipment incorporated in said work or otherwise listed in or covered by this Contract Payment Request will pass to Owner at the time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by Bond acceptable to owner indemnifying Owner against such liens, security interest or encumbrance); and (3) all work covered by this Contract Payment Request is in accordance with the Contract Documents and not defective.

Date

Authorized Signature

Print Name and Title

Payment of the above AMOUNT DUE THIS PAY REQUEST is recommended.

Project Manager Signature

Print Name and Title

Authorization by City Representative

City Representative Signature

Print Name and Title
This form must be submitted with the above pay request, or submit AIA document G702 and G703.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of Work/Material</td>
<td>Unit</td>
<td>Original QTY</td>
<td>Contract Unit Price</td>
<td>Original Contract Price</td>
<td>QTY Complete This period</td>
<td>Total Complete This period</td>
<td>QTY Complete from Previous Period</td>
<td>Total Complete From Previous Period</td>
<td>Total Complete (G+I)</td>
<td>Balance to finish</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature:_________________________________________  Print Name:__________________________________________
THIS AGREEMENT, entered into this ___ day of ___________, _____, by and between the CITY OF CHEYENNE, WYOMING, hereinafter referred to as the “CITY”, and ______________________________, hereinafter referred to as the “CONTRACTOR”.

WITNESSETH that the Contractor and the City, for the considerations stated herein, mutually agree as follows:

ARTICLE 1. STATEMENT OF WORK. The Contractor shall furnish all supervision, technical personnel, labor, materials, machinery, tools, equipment, and services, including utility and transportation services, and perform and complete all work in an efficient and workmanlike manner in the construction of the “Repair and Expansion of Landfill Permanent Litter Fence” project all in strict accordance with the Contract Documents including all addenda thereto, numbered and dated:

ARTICLE 2. RESPONSIBLE DESIGNEE FOR THE CITY. The Contractor shall in any and all matters relating to the scope of services to be provided under this Contract or any other provisions herein, contact the City Engineer, or his/her designated representative.

ARTICLE 3. TIME FRAME FOR COMPLETION. The services to be performed under this Agreement shall commence on the date stipulated in the “Notice to Proceed” that will be issued by the City. The work shall be completed by ________________. If the work has not been completed within the time stipulated above, including any extensions of time issued by the City for excusable delays, the Contractor and his/her sureties shall pay the City fixed, agreed liquidated damages, as stipulated in the Supplemental Conditions, for each calendar day of delay until the work is completed.

ARTICLE 4. COMPENSATION AND METHOD OF PAYMENT. The CITY will pay the Contractor for the performance of the Contract in current funds, the sum of ________________ Dollars ($______________). In the event there are changes in the estimated quantities shown on the Bid Proposal, the unit prices multiplied by the actual quantities shall govern, and the total contract amount will be adjusted accordingly. The City agrees to pay the above amount for contractual services in the following manner, upon receipt of appropriate documentation:

a. The Contractor will be paid on a monthly basis for percentage of estimated work completed. Submittal will be at least seven (7) business days prior to the payable due date as established
annually by the City Treasurer’s Office. The pay request shall be submitted on the Contract Payment Request Form and Itemized Pay Request or the AIA Documents G702 and G703. The engineer will review the estimate for approval prior to payment.

b. The City will withhold ten percent (10%) of the dollar value of the work completed for a minimum of ten (10) calendar days after Notice of Final Settlement has been published in accordance with Wyo. Stat. §15-1-113(h). Upon completion of the work under this Contract, the Contractor shall submit a Contractor’s Certificate of Completion; the Consent of Surety; Final Waivers of Lien from the Contractor, and all Sub-Contractors, Suppliers and Materialmen; Affidavit of Release of Liens; Affidavit of Payment; and a current Workers Compensation Certificate. Final payment will not be made until the above documents have been received by the City and all items on the Punch List have been completed, and the advertising requirements have been met.

**ARTICLE 5. CONTRACT.** The executed Contract Documents shall consist of the following:

1. This Agreement;
2. Addenda;
3. Invitation for Bids;
4. Instructions to Bidders;
5. Signed Bid Proposal;
6. General Conditions and Insurance;
7. Supplemental Conditions;
8. Part IV Forms & Notices;
9. Specifications and Special Provisions;
10. Drawings.

This Agreement, together with other documents enumerated in this Article 5, which said other documents are as fully a part of the Contract as if hereto attached or herein repeated, forms the Contract between the parties hereto.

IN WITNESS WHEREOF, THAT the governing body of the City of Cheyenne has authorized the Mayor as Executive Officer of the City to enter into this Agreement, and that the parties hereto have caused this Agreement to be executed on the day and year in the first part herein written.

ATTEST:

____________________________
Kristina F. Jones, City Clerk

____________________________
Marian J. Orr, Mayor

____________________________
Contractor
By

____________________________
Title

____________________________
Address
<table>
<thead>
<tr>
<th></th>
<th>Bond Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Signature of principal must be affixed to the bond.</td>
</tr>
<tr>
<td>2.</td>
<td>Signature of principal must be witnessed.</td>
</tr>
<tr>
<td>3.</td>
<td>Name of principal must be witnessed.</td>
</tr>
<tr>
<td>4.</td>
<td>The legal capacity of the principal must be stated in the caption of the bond (i.e., corporation, partnership or sole proprietorship).</td>
</tr>
<tr>
<td>5.</td>
<td>If the principal is jointly owned, all owners must sign the bond.</td>
</tr>
<tr>
<td>6.</td>
<td>If the principal is a partnership, at least two partners must sign the bond.</td>
</tr>
<tr>
<td>7.</td>
<td>Signature of the attorney-in-fact acting on behalf of the surety company must appear on the bond.</td>
</tr>
<tr>
<td>8.</td>
<td>The surety’s seal must be affixed to the signature of the attorney-in-fact (Facsimile seals are NOT acceptable).</td>
</tr>
<tr>
<td>9.</td>
<td>The surety company must be registered with the state insurance commission and qualified to do business in the State of Wyoming.</td>
</tr>
<tr>
<td>10.</td>
<td>Power of Attorney/Acknowledgment of Surety must be signed, sealed and dated with the same date as execution of bond.</td>
</tr>
<tr>
<td>11.</td>
<td>Date of written Agreement and date of bond must be same. Post-dated bonds are not acceptable.</td>
</tr>
<tr>
<td>12.</td>
<td>Bond form must be completely executed. Bonds with blank spaces, including dates, are unacceptable.</td>
</tr>
<tr>
<td>13.</td>
<td>The bond must be accompanied by a properly executed authorization of Power of Attorney. <strong>Note:</strong> The bond shall continue in force throughout the project and a two-year warranty period; and at the discretion of the City, for any additional warranty period specified in the contract documents.</td>
</tr>
<tr>
<td>14.</td>
<td>The person signing on behalf of the corporate principal must state his/her legal capacity and he/she must be either the president or the vice-president if it is a corporation. If the officer or person signing on behalf of the corporate principal is other than the president or vice-president, there must be attached to the bond a resolution or certified evidence of authority that such officer or person has authority to sign in behalf of the principal.</td>
</tr>
<tr>
<td>15.</td>
<td>The signature of the principal must be witnessed, or attested to if it is a corporate principal by ONLY the secretary or assistant secretary of the corporation.</td>
</tr>
<tr>
<td>16.</td>
<td>The corporate seal must be affixed to the signature of the principal. (Facsimile seals are NOT accepted).</td>
</tr>
<tr>
<td>17.</td>
<td>Each party is required to sign his/her own name.</td>
</tr>
<tr>
<td>18.</td>
<td>All changes or strike-throughs must be initialed by the resident agent or attorney-in-fact of the surety company. The surety company must be notified of such changes.</td>
</tr>
</tbody>
</table>
KNOW ALL MEN BY THESE PRESENTS:

That

_____________________________________________________________________
(Name of Contractor)

_____________________________________________________________________
(Address of Contractor)

a _____________________________ ___________________________________, hereinafter called Principal,

and ___________________________________ hereinafter called Surety, are

(Name of Surety)

held and firmly bound unto the City of Cheyenne, Wyoming, Municipal Building, 2101 O’Neil Avenue, hereinafter called City, in the penal sum of:

___________________________________________________________ Dollars

($____________________), in lawful money of the United States, for the payment of which sum

well and truly to be made, we bind ourselves, successors and assigns, jointly and severally,

firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a
certain contract with the City, dated the _____ day of ___________, _____, a copy of which is
hereto attached and made a part hereof for the

_____________________________________________________________________________

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the
undertakings, covenants, terms and conditions, and agreements, of said contract during the
original term thereof, and any extensions thereof which may be granted by the City, with or
without notice to the Surety and during the two-year guarantee period, and if the Principal shall
satisfy all the claims and demands incurred under such contact, and shall fully indemnify and
save harmless the City from all costs and damages which the City may suffer by reason of failure
to do so, and shall reimburse and repay the City all outlay and expense which the City may incur
in making good any default, then this obligation shall be void; otherwise to remain in full force
and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees
that no change, extension of time, alteration or addition to the terms of the Contract or to work to
be performed thereunder or the specifications accompanying the same shall in any wise affect its
obligation on this bond, and it does hereby waive notice of any such change, extension of time,
alteration or addition to the terms of this contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall
abridge the right of any beneficiary hereunder whose claim may be unsatisfied.
IN WITNESS WHEREOF, this instrument is executed in ____ counterparts, each one of which shall be deemed an original, this the ___ day of ____________, ____.

_____________________________                        ____________________________
(Witness)                                   (Principal)                                   (Seal)
                          By_______________________________
                                     (Title)

_____________________________                        ____________________________
______________________________
(Witness)                                   (Surety)                                   (Seal)
                          By_______________________________
                                     (Attorney-in-fact)

Countersigned by:

By_______________________________
(Wyoming Resident Agent)

______________________________
(Address)

NOTE: Date of Bond must be same date as date of Contract. If Contractor is a partnership, all partners must execute bond.

IMPORTANT: Surety companies executing bonds must hold a Certificate of Authority issued by the State of Wyoming Insurance Department.
PART 6 – GENERAL CONDITIONS
CITY OF CHEYENNE, WYOMING

1.00 PROJECT SITE

City of Cheyenne Landfill, 1461 Happy Jack Rd, Cheyenne, WY 82009

2.00 NOTICES

Any notice, correspondence, or billing required by the terms of this Agreement shall be delivered by hand or mail, prepaid, to the address of the respective party representative(s) named below:

CITY: Matt Theriault
Public Works, Landfill Manager
2101 O’Neil Ave.
Cheyenne, WY 82001
Ph: 307-637-6279

3.00 DRUG-FREE WORKPLACE

In compliance with the Drug Free Work Place Act of November 1988, the City has established an “Alcohol and Controlled Substance Policy” that pertains to alcohol and drug usage by City employees. All independent contractors under contract with the City and their employees and subcontractors are required to comply with the provisions of this policy for drug and/or alcohol usage on City property or other sites occupied by the Contractor while performing the duties and responsibilities of the contract. It is the responsibility of the Contractor to become familiar with the requirements of this policy and to inform all subcontractors and employees of their obligation to comply and to ensure their compliance therewith. If the Contractor, the Contractor’s employees, or subcontractors are found in violation of this policy, the contract may be terminated. The Contractor is an independent Contractor and shall comply with the City’s Alcohol and Controlled Substance Policy and the provisions of this section.

4.00 NONDISCRIMINATION

The parties shall comply with the Civil Rights Act of 1964, the Wyoming Fair Employment Practices Act (Wyo. Stat. § 27-9-105 et seq.), the Americans With Disabilities Act (ADA (42 U.S.C. § 12101 et seq.)), the Age Discrimination Act of 1975, and any properly promulgated rules and regulations thereto and all parties to this Agreement assure that no person shall be excluded from participation in, denied the benefits of, or otherwise discriminated against in connection with the award and performance of this Agreement on the grounds of age, sex, race, creed, color, national origin, ancestry, religion, pregnancy, qualifying disability, sexual orientation, or gender identity. The parties further assure that they will include the language of this paragraph in all agreements associated or connected in any way with this Agreement and shall cause all existing Agreements to similarly include this clause therein.
5.00 CONTRACTS FOR PUBLIC IMPROVEMENTS

Wyo. Stat. § 15-1-113 is expressly incorporated herein by this reference as though fully set forth herein.

6.00 SAFETY PROGRAMS

The City, as mandated by Occupational Safety and Health Administration (“OSHA”), has in place many safety programs. All independent contractors, their employees, and their subcontractors, under contract with the City, must be familiar with and comply with any and all applicable OSHA standards, regulations, and provisions.

7.00 INDEPENDENT CONTRACTOR

At all times during the term of this Agreement, the Contractor shall be considered an independent contractor. Neither Contractor nor any one employed by it shall represent, act, purport to act, or be deemed to be the agent, representative, employee, or servant of the City.

8.00 CONFIDENTIALITY

To the extent allowed by law, the City and the Contractor shall treat as confidential and not disclose to others information (including technical information, experience, or data) regarding either party’s plans, programs, plants, processes, products, costs, equipment, operations, or customers which come within the knowledge of the parties, without in each instance securing the prior written consent of the other party, unless such disclosure is required by law or legal process. However, nothing shall prevent either Contractor or the City from disclosing to others, or using in any manner, information which either party can show (a) has been published or has become part of the public domain other than by acts of Contractor or the City; (b) has been furnished or made known to Contractor or the City by third parties without restrictions on its disclosure; or (c) was in either party’s possession prior to the disclosure thereof by the City or Contractor to each other. Contractor shall not be restricted in any way from releasing information in response to a subpoena, court order, or legal process, but shall notify City of the demand for information before Contractor responds to such demand. The City reserves the right to prohibit the release of said information as provided by law.

9.00 CONFLICT OF INTEREST

In entering this Agreement, the Contractor covenants that it presently has no interest, and shall not acquire any interest, direct, indirect, financial, or otherwise, which would conflict in any manner or degree with performance of the services hereunder. Contractor further covenants that in the performance of the Agreement, no subcontractor, or person having such an interest, shall be employed by the City. Contractor certifies that no one who has or will have any financial interest under this Agreement is an officer or employee of the City.
10.00 **ACCEPTANCE NOT WAIVER**

The City’s approval of drawings, plans, specifications, reports, and incidental work, or materials furnished hereunder shall not in any way relieve Contractor from responsibility for the technical accuracy of the work. The City’s approval or acceptance of, or payment for, any services shall not be construed to operate as a waiver of any of the City’s rights under this Agreement or any of its legal rights under statute and common law arising out of the performance of this Agreement.

11.00 **INSURANCE REQUIREMENTS**

The Contractor shall file a Certificate of Insurance with the City verifying each type of insurance coverage listed below.

The Certificate of Insurance shall be submitted to and approved by the City before the Contractor begins to perform under this bid and the subsequent contract.

<table>
<thead>
<tr>
<th>TYPE OF COVERAGE</th>
<th>MINIMUM POLICY REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial General Liability (Including Products and Completed Operations; Explosion, Collapse and Underground if applicable to the hazards of a specific project.)</td>
<td>$1,000,000 per Occurrence $2,000,000 Aggregate</td>
</tr>
<tr>
<td>Business Automobile Liability</td>
<td>$1,000,000 (Combined Single Limit)</td>
</tr>
<tr>
<td>Workers’ Compensation</td>
<td>Statutory</td>
</tr>
<tr>
<td><strong>OR</strong></td>
<td></td>
</tr>
<tr>
<td>Employer’s Liability</td>
<td>$500,000 Each Accident $500,000 Each Disease-Policy Limit $500,000 Disease/Each Employee</td>
</tr>
</tbody>
</table>

It is understood and agreed that these policies are primary and not contributory. All policies required under this contract shall be in effect for the duration of the project and contract. The Contractor shall immediately notify in writing the City Risk Manager, City Clerk, and City Attorney of any fact, circumstance, or occurrence that has resulted in, or may result in, the cancellation or substantive change of any insurance coverage required by this contract, and failure to do so shall be construed to be a breach of this contract.

The Contractor shall name the City as an additional insured on the Contractor’s insurance policies, except workers’ compensation, and the Contractor shall provide a copy of the endorsements providing this coverage.

The City has the right to reject a certificate of insurance if the City determines that the Contractor’s insurance company is widely regarded in the insurance industry as financially unstable. Any insurance company providing coverage under this contract shall have a minimum A.M. Best rating of A- (excellent).
The City has the right to review the insurance certificates of any or all Sub-Contractors used by the Contractor. Further, the City requires that the Sub-Contractors’ insurance coverages be at least equivalent to that required of the Contractor.

The City has the right to increase the required minimum limit of liability on any contract project as warranted by an increase in hazard. Examples of increased hazard include, but are not limited to, handling of hazardous materials and activities involving large congregations of people.

The City shall have the right to consult with the Contractor’s insurance agent for disclosure of relevant policy information, but the City’s non-request or non-review such policies, endorsements, or certificates shall not affect the City’s rights or Contractor’s obligations hereunder. Disclosure of relevant policy information would specifically involve, but is not limited to, exclusions, deductibles, and claims in progress which could significantly reduce the annual aggregate limit.

12.00 INDEMNITY

In entering into the Agreement, the Contractor agrees to hold harmless, defend, and indemnify the City of Cheyenne, its officials, employees, agents, and authorized volunteers against any and all claims and costs, including attorneys’ fees, arising during or resulting from the Contractor’s performance of the contract. The Contractor shall carry insurance as set forth in these Contract Documents. The Contractor acknowledges its understanding of this paragraph and realizes it may have a financial responsibility to the City. The City does not waive any applicable defenses and expressly reserves the right to invoke governmental immunity pursuant to the Wyoming Governmental Claims Act, Wyo. Stat. § 1-39-101, et seq. for any claim arising out of performance of this agreement.

The Contractor expressly understands and agrees that although the City and the Engineer have the right under this Contract to observe and review the Contractor’s work and operations, this right shall not relieve the Contractor from any of its covenants, obligations, or duties hereunder. The Contractor shall be responsible for and hold harmless the City, the Engineer, and their representatives from all suits, actions, or claims of any character, due to injuries or damages sustained by any person or property, in consequence of any neglect in performing the work, observing safety standards or regulations, through the use of unsafe or unacceptable practices or materials in the performance of the work, the Contractor’s failure to comply with any law, ordinance or regulation or otherwise.

13.00 PROJECT RECORD DOCUMENTS

The Contractor shall maintain at the job site one copy of all Contract and project documents, each portion of which shall be clearly marked, “Project Record Copy”. These documents, including drawings, specifications, addenda, approved shop drawings, change orders, field orders, other Contract Modifications, and other approved documents submitted by the Contractor in compliance with various sections of the Contract Documents, shall be maintained in good condition, available at all times for inspection by the City, and not used for construction purposes.

The Contractor shall mark up the most appropriate document to show significant changes made during construction progress, and significant detail not shown in the original Contract
Documents. The information shall include, but shall not be limited to, location of underground utilities and appurtenances referenced to permanent surface improvements, and location of internal utilities and appurtenances concealed in building structures referenced to visible and accessible features of structures.

The Contractor shall keep the project record documents current and not permanently conceal any work until required information has been recorded. Upon completion of the project and prior to final acceptance, the Contractor shall submit the marked up set of project record documents to the Engineer for the City along with the “Contractor’s Certificate of Completion” found in the bidding documents. After the Engineer has inspected the work and has determined it to be substantially complete, the City will issue a “Certificate of Substantial Completion”, which will establish the date of commencement of the warranty period.

14.00 CONTRACT DOCUMENTS

The City will furnish to the Contractor, without charge, two (2) copies of the Contract Documents including technical specifications and drawings. Additional copies requested by the Contractor will be furnished at cost.

15.00 TIME FOR COMPLETION

The Contractor shall commence the work required under this contract at the time stipulated by the City in the Notice to Proceed. The Contractor shall complete the work by the following: **180 Calendar Days from Contract Award**

Time will not be counted when the project is officially suspended by the City due to acts of God, winter shutdown, and City-originated suspensions that are necessary through no fault of the Contractor. In the latter instance, if the City suspends the work for more than ninety (90) calendar days, the Contractor may apply for a price adjustment to compensate for reasonable expenses caused by the suspension. Any application for price adjustment or Contract Time extension will be submitted to the Governing Body of the City for its consideration in the form of a Contract Modification. It will be the responsibility of the Contractor to provide sufficient documentation to substantiate any claim.

16.00 JOB OFFICES AND STAGING AREA

The Contractor and Sub-Contractor(s) may maintain office and storage facilities on the site which are necessary to properly conduct the work. These facilities’ locations shall not cause any interference to any work performed on the site. The Contractor shall consult with the City regarding the locations. Upon completion of the improvements, or as directed by the City, the Contractor shall remove all such temporary structures and facilities from the site. The Contractor shall leave the site of the work in the condition required by the Contract.

On-site toilet facilities for employees of Contractors and Sub-Contractor(s) shall be provided and maintained in a sanitary condition. The Contractor shall remove all trace of these facilities prior to completion of the project.
17.00 **THE USE OF CITY OWNED REFUSE CONTAINERS**

All City contracts shall require all Contractors to use City-provided Sanitation services if available.

18.00 **REFERENCE POINTS**

Project survey points are provided by the City one time only, unless otherwise noted by the City in the appropriate project manual.

The Contractor shall make all surveys that will be necessary for the proper construction. The Contractor shall preserve all property pins and control points. If any of these are destroyed or disturbed due to the Contractor’s construction activities or negligence, the Contractor will be charged at the Engineer’s established hourly crew rate for replacing them, with payment for this extra work to be made directly to the Engineer by deduction from the monthly periodic estimate payments to the Contractor. The Contractor shall also be responsible for any mistakes or damage resulting from the unnecessary loss or disturbances of control points.

19.00 **SEQUENCE OF WORK**

The Contractor shall make every effort to complete the work in a manner and fashion that minimizes roadway closures and inconveniences to the traveling public and adjacent property owners. Once barricades are placed in the right-of-way, the Contractor shall show progress of work during normal Working Days and hours. If no progress of work is recorded for twenty-four (24) hours and no concrete is waiting for strength, the Contractor shall remove barricades, re-open the right-of-way, and provide a safe travel way for the public. If the Contractor does not re-open the right-of-way or show progress of work within twenty-four (24) hours, the City shall use any and all means necessary to re-open the area at the Contractor’s expense. The Contract Documents are compiled to support the efficient operations of the Contractor and are not intended to supplant the Contractor’s responsibility of superintendence. Special consideration regarding schedules or work sequences necessary or anticipated during the course of the project will be identified in the Special Provisions.

20.00 **GENERAL TRAFFIC REQUIREMENTS**

The Contractor shall provide adequate signs, barricades, lights, and flaggers, and take all necessary precautions to prevent accident or injury and to minimize inconvenience to the public during the progress of the work.

All traffic control or other protective devices shall be installed and maintained in accordance with the Uniform Manual of Traffic Control Devices or in conformance with the applicable requirements of the authority having jurisdiction in such matters. The Contractor shall provide an American Traffic Safety Services Association (“ATSSA”) certified work site supervisor to supervise all traffic control operations if the City deems necessary.
Material stored on or adjacent to public streets shall not obstruct or inconvenience the traveling public.

Streets, driveways, or other access points shall not be closed without the prior consent of the City, Engineer, and proper governmental authorities. Fire hydrants on or near the site of the work shall be accessible at all times. The Contractor shall notify affected property owners, the City and the Engineer at least 48 hours in advance of any proposed closure for construction operations including any work to be done by utility companies.

The Contractor shall submit a traffic control diagram to the City for approval before work begins. The diagram shall indicate location and type of signs, cones, flashers, flagging, reflective barricades, and all other devices deemed necessary for the proper protection of the work area.

21.00 EXISTING ROADWAYS AND OTHER PROPERTY

The Contractor shall take all necessary precautions to protect adjacent roadways, properties, improvements, and underground facilities affected by the Contractor’s operations, regardless of the facilities’ ownership.

Any existing improvements or facilities damaged by the Contractor’s operations in the performance of the work under this Agreement shall be repaired or replaced by and at the expense of the Contractor to the satisfaction of the City.

The Contractor shall be responsible for the preservation and maintenance of all existing roadways affected but not directly disturbed by the work. The Contractor shall repair, replace, or clean any roadway indirectly affected by his or her operations during the course of the project. Such work shall be accomplished by and at the expense of the Contractor without reimbursement by the City.

22.00 FINAL CLEANUP

The Contractor shall clean all sidewalks, streets and other areas affected by construction and ensure removal of all loose surface materials. All piles of excess excavation, rocks, rubbish, or other debris shall be cleaned up and disposed of. Damage to any areas by the Contractor will be repaired or replaced by the Contractor at no expense to the City. No extra compensation will be allowed for final cleaning of the site, but the cost thereof shall be included in the unit price bid for other items in the Proposal. If work is suspended for any reason, the Contractor will be required at the Contractor’s expense, prior to shut down, to provide for the public’s safety and use as directed by the City or Engineer.

23.00 ENGINEER OR INSPECTOR OVERTIME AND USE OF CITY RESOURCES:

Inspection work required beyond normal working hours by any Engineer or Inspector having authority on the project must have the City’s written approval twenty-four (24) hours in advance of scheduled work. In emergency situations, verbal approval may be given followed by written approval on the next working day. In an emergency situation, verbal approval will suffice until the next working day at which time written approval will be obtained.
The City of Cheyenne Board of Public Utilities ("BOPU") requires that requests for services on the weekend be made not later than 4:30 p.m. on the Thursday prior to need so that appropriate personnel arrangements can be made.

All costs for overtime inspection or professional services associated with the work will be paid for by the Contractor.

No City services, equipment, or personnel will be provided for this project unless specifically defined and stated in the bidding or contract documents, nor will any be provided free of charge unless expressly stated in these documents.

24.00 FORCE ACCOUNT, EXTRA WORK, AND WORK CHANGES

When the Contractor is required to do work or services under the force account or extra work, the cost for said work will be calculated using the provisions of the Wyoming Department of Transportation system for determining costs for equipment, operators and labor involved. Any extra work, additions, deletions or revisions in the work will be authorized by written Contract Modification or change orders. The Engineer may authorize minor changes or alterations in the work not involving extra cost and not inconsistent with the overall intent of the Contract Documents in the form of a Field Order.

25.00 CONTRACT MODIFICATIONS

  a. General: Contract Modifications are used to increase or decrease the total Contract Price, to alter the Contract Time, or to alter any other contract agreement provision. Each Contract Modification must be in writing, approved by the City’s Governing Body, and executed by the Mayor and Contractor.

  b. A Contract Modification does not invalidate the contract or release the surety. If the parties agree to a Contract Modification, the Contractor shall perform the work in the manner required by the contract as modified, except that the Contractor shall not perform any work which is subject to the Contract Modification, until such time as the City Engineer authorizes the Contractor to proceed. The City will initiate a request to modify the Contract by submitting the proposed Contract Modification to the Contractor for review and approval.

The City Engineer or agent thereof, e.g., a project manager, may issue a Field Order to authorize the work to be paid for under the Force Account bid item or to adjust existing bid item quantities without increasing the total Contract Price. See Section 24.00. The Contractor may not begin work under any Contract Modification until the City Engineer has authorized the Contractor to proceed.

The Contractor shall use a Request for Adjustment form to request an adjustment of the Contract Time or Contract Price. The City shall have no obligation to process oral requests for modification of the Contract Time or Contract Price, and no City official shall have the authority to approve oral modification requests. Proposed adjustments may be based upon extra work necessitated by an emergency, a change of conditions, or the City Engineer’s interpretation of the contract requirements. Requests for Adjustments shall not be valid unless the Contractor has filed the request with the Engineer within:
1. Two (2) Working Days after the occurrence of the emergency or the discovery of any change in conditions which necessitates Additional Work; or


The City will pay for adjustments and modifications based on contract unit bid prices. If the Contractor’s cost of production or the character of the work is materially changed, the City may adjust the contract as specified in this section or seek a Contract Modification. The City will not pay for loss of anticipated profits resulting from adjustments or modifications, unless so specified in the adjustment or modification.

Differing Site Conditions: Before the conditions are disturbed or the affected work is performed or continued, the Contractor shall notify the City in writing if either of the following is encountered: (1) latent physical conditions that differ materially from those indicated in the contract; or (2) unusual physical conditions that differ materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract. The City will not grant or consider Contract Modifications based on differing site conditions if the Contractor does not timely notify the City within two (2) Working Days after discovering latent or unusual physical conditions.

Significant Changes in the Character of Work: The Contract Unit Price of each bid item in the proposal shall include the pro rata share of overhead and profit so that the sum of the products obtained by multiplying the quantity shown for each item by the unit price bid represents the total bid. The City may alter the contract quantities, the Work, or both as necessary to complete the project, subject to the requirement that modifications to the Contract Price may be necessary in the event the alterations significantly change the character of the work. If alterations do not significantly change the character of the work specified in the contract, the City will pay for the altered work at contract unit prices and additional mark-ups for overhead and profit are not allowed.

Either of the following constitutes a “significant change” (1) when the character of the work, as altered, differs materially in kind or nature from that specified in the contract; or (2) in accordance with the relevant section in the Instruction to Bidders, when the net monetary value of all such additive and subtractive changes in quantities of such items increases or decreases the original total Contract Price by more than twenty percent (20%).

Extra and Force Account Work: When necessary or desirable to complete the project, the City may direct the Contractor to perform unforeseen work for which there is no pay item or unit price in the contract. The City shall seek a Contract Modification in the event the City’s direction to perform unforeseen work results in an increase in the Contract Price, the alteration of the Contract Time or required any other modification of the Contract Agreement. The City Engineer may direct the Contractor to perform work under the Force Account item for minor changes or alterations in the work that do not increase the original Contract Price. All Force Account Work shall be approved with a Field Order in accordance with the above procedures.

Extra work under the Force Account item shall be paid by one of the following methods: (1) Contract unit bid prices that are representative of the work being performed, as specified in item Significant Changes in the Character of Work; and (2) Negotiated unit bid prices for items where the Contractor’s cost of production or the character of the work is
materially changed. The negotiated unit bid prices shall include the \textit{pro rata} share of overhead and profit. Overhead and profit mark-up on Sub-Contractor unit bid prices shall be limited to five percent (5%); (3) lump sum, as stipulated in the order authorizing the work. Documentation for lump sum pricing shall be provided to a degree sufficient for the City Engineer to review for acceptability. Overhead and profit shall be limited to five percent (5%) on Sub-Contractor work and fifteen percent (15%) on work by Contractor’s own forces; and (4) Time and material basis utilizing approved materials, equipment, and labor costs calculated under the provisions of the latest edition of the Wyoming Department of Transportation Specifications Subsection 109.4.4.

26.00 \textbf{PARTIAL USE OF SITE IMPROVEMENTS}

The City may give notice to the Contractor and place in use those sections of the improvements which have been completed, inspected, and can be accepted as complying with the Contract Documents if, in its opinion, each section is reasonably safe, fit and convenient for the use and accommodation for which it was intended, provided:

The use of such sections of the improvements shall in no way impede the completion of the remainder of the work by the Contractor;

The Contractor will not be responsible for any damages or maintenance costs due directly to the use of such sections;

The use of such sections shall in no way relieve the Contractor of liability arising from having used defective materials or to poor workmanship.

Any guarantee period shall not commence until the date of the final acceptance of all work which the Contractor is required to construct under this contract.

27.00 \textbf{TWO YEAR WARRANTY PERIOD}

If after the approval of final payment and prior to the expiration of two (2) years after the date of Substantial Completion or such longer period as may be prescribed by law or by the terms of any applicable special guarantee, the Contractor shall promptly, without cost to the City and in accordance with the City’s written instructions, either correct such defective work or, if it has been rejected by the City, remove it from the site and replace it with non-defective work within thirty (30) calendar days of written notification by the City. If the Contractor does not promptly comply with the terms of such instruction, the City may have the defective work corrected or the rejected work removed and replaced, and all costs incurred therefore, including compensation for additional professional services, shall be paid by the Contractor and its sureties. The remedies provided in this section are in addition to all other remedies available to the City under applicable law and shall not be construed as exclusive of any other legal right or remedy available to the City.

28.00 \textbf{COMPLETION AND WARRANTY}

Substantial Completion. Shall be defined as when the project can be safely and effectively used by the public for its intended use, without further delays, disruptions, or other impediments and only clean up and work of a minor nature remains to be finished, as agreed to by the City Engineer or as otherwise specified. After written notice from the Contractor of Substantial Completion, the Engineer and the City shall make a determination of acceptance of substantial completion. If in agreement, the City will issue written notice of Substantial Completion at which date the contract time will stop. The Engineer will then make an inspection of the project and develop a punch list of items to be completed. The Contractor will have thirty (30) calendar days to complete all punch list items, with the exception of seasonal work item, which will be as agreed by the Engineer and the City. Liquidated damages may be assessed by the City, in accordance with Section 29.00, for every day that expires after the allotted time for the completion of the punch list.

Warranty. The specified date in the City’s Notice of Substantial Completion issued to the Contractor shall be the effective date for the beginning of the two-year warranty period.

Final Completion. After completion of the punch list, the Contractor shall issue the Contractor’s Certificate of Completion along with the marked-up Project Record Drawings in accordance with Project Documents. At that time the Engineer and the City shall inspect and if all construction provided for and contemplated by the contract is found to be complete to their satisfaction, this inspection shall constitute the final inspection and the Engineer shall make the final acceptance. The Contractor shall be notified in writing as to the date of the Final Completion.

Prior to the end of the Warranty Period, the City shall inspect the Project for defects in the workmanship or material. A written deficiency list shall be developed and provided to the Contractor. Normal wear and tear shall not be considered a deficiency. The Contractor shall promptly, without cost to the City and in accordance with the City’s written instructions, either correct such defective work or, if it has been rejected by the City, remove it from the site and replace it with non-defective work within thirty (30) calendar days of written notification by the City.

29.00 LIQUIDATED DAMAGES

For each calendar day that any work shall remain uncompleted after the contract time specified for the completion of the work provided for in the contract, the following liquidated damages charges will be deducted from any monies due the Contractor:

<table>
<thead>
<tr>
<th>ORIGINAL CONTRACT AMOUNT</th>
<th>LIQUIDATED DAMAGE CHARGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>From ($)</td>
<td>To and including ($)</td>
</tr>
<tr>
<td>0.00</td>
<td>25,000.00</td>
</tr>
<tr>
<td>25,000.01</td>
<td>50,000.00</td>
</tr>
<tr>
<td>50,000.01</td>
<td>100,000.00</td>
</tr>
<tr>
<td>100,000.01</td>
<td>500,000.00</td>
</tr>
<tr>
<td>500,000.01</td>
<td>1,000,000.00</td>
</tr>
<tr>
<td>1,000,000.01</td>
<td>1,500,000.00</td>
</tr>
<tr>
<td>1,500,000.01</td>
<td>and greater</td>
</tr>
</tbody>
</table>
Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the use of additional contract time, will in no way constitute a waiver on the part of the City to any of its rights under the contract.

Unless otherwise provided in the contract, liquidated damage charges will be calculated in accordance with the table. All time in excess of the required Contract Time will be calculated on a calendar day basis.

30.00 GOVERNMENTAL IMMUNITY

The City and its officials and employees do not waive governmental immunity by entering into this Agreement and specifically retain all immunities and defenses available to them as Governmental Entities pursuant to Wyo. Stat. § 1-39-101, et seq, and all other applicable laws. Further, the City fully retains all immunities and defenses provided by law with regard to any action, whether in tort, contract, or any other theory of law, based on this Agreement. The City does waive its governmental immunities solely for the enforcement of the terms and conditions of this Agreement.

31.00 GOVERNING LAW, JURISDICTION, AND VENUE

The construction, interpretation, and enforcement of this Agreement shall be governed by the laws of the State of Wyoming. The courts of the State of Wyoming shall have jurisdiction over any action arising out of this Agreement and over the parties, and the venue shall be the First Judicial District, Laramie County, Wyoming.

32.00 COMPLIANCE WITH LAWS

This Agreement shall be governed in all respects by the laws of the State of Wyoming. The parties hereto shall comply with all applicable federal, state, and local laws, rules, and regulations in the performance of this contract. The identified laws or regulations are included in this Agreement as mandated by statute or for the convenience of the Contractor. The Contractor’s attention is directed to the fact that all applicable federal and state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over design and construction of the project shall apply to the Agreement throughout, and they are deemed incorporated herein. Other laws and regulations apply which are not included herein, and are within the Contractor’s duty and responsibility for compliance therewith.

33.00 DEFAULT

Each and every term and condition herein shall be deemed a material element of this Agreement. In the event either party shall fail or refuse to perform according to the terms of this Agreement, such party may be declared in default.

34.00 REMEDIES

In the event a party declares the other party in default hereof, said party declaring default shall notify the defaulting party in writing, and such defaulting party shall be allowed a period of fifteen (15) calendar days to cure said default. In the event that the default
remains uncorrected, the party not in default may elect to: (a) terminate this Agreement and seek damages; (b) treat this Agreement as continuing and require specific performance; or (c) avail itself of any other remedy at law or equity.

In the event Contractor fails to strictly perform in accordance with this Agreement, the City may elect to make good such deficiencies and charge Contractor therefore.

35.00 TERMINATION

The City may, by written notice to Contractor, terminate this Agreement, in whole or in part, by giving Contractor fifteen (15) calendar days written notice. Upon receipt of such notice, Contractor shall discontinue all services affected (unless the notice directs otherwise), and deliver to the City representative within five (5) calendar days all documents belonging to the City, including but not limited to, data, drawings, specifications, reports, estimates, and summaries accumulated by the Contractor in the performance of this Agreement, whether completed or in progress. In the event of termination, the City shall pay Contractor for all work accepted as of the date of termination.

36.00 WAIVER

The waiver by either party of any term, condition, or covenant, or breach of any term, condition, or covenant, shall not constitute a waiver of any other term, condition, or breach thereof.

37.00 SEVERABILITY

If any provision, section, subsection, sentence, clause, or phrase of this Agreement is invalidated by any court of competent jurisdiction, such holding shall not affect the validity of the remainder of the Agreement, which shall continue in full force and affect.

38.00 SUCCESSORS AND ASSIGNS

All the terms, conditions, and provisions herein shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns.

39.00 ASSIGNMENT

Neither party shall assign this Agreement without prior written consent of the other party. Any delegation or assignment shall not operate to relieve either party of its responsibilities hereunder.

40.00 THIRD PARTY RIGHTS

The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Agreement shall not be construed so as to create such status. The rights, duties and obligations contained in this Agreement shall operate only between the parties to this Agreement, and shall inure solely to the benefit of the parties to this Agreement. The parties to this Agreement intend and expressly agree that only the parties signatory to this Agreement shall have any legal or equitable right to seek to enforce this
Agreement, to seek any remedy arising out of a party’s performance or failure to perform any term or condition of this Agreement. This paragraph is not intended nor shall it be construed to waive all the parties’ immunities.
PART 7 - SPECIFICATIONS
CITY OF CHEYENNE, WYOMING

THE STANDARD SPECIFICATIONS GOVERNING THIS PROJECT SHALL BE THE “CITY OF CHEYENNE/BOARD OF PUBLIC UTILITIES CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS, 2014” WITH APPROVED AMENDMENTS ISSUED BY THE CITY ENGINEER AT THE TIME OF THIS CONTRACT.

IT IS THE CONTRACTOR’S RESPONSIBILITY TO KEEP CURRENT ON THESE AMENDMENTS. COPIES OF THESE AMENDMENTS ARE AVAILABLE ON THE CITY’S WEBSITE AT http://www.cheyennecity.org.

SPECIAL PROVISIONS

THE SPECIAL PROVISIONS WILL ADD TO OR REVISE CERTAIN SECTIONS OF THE “CITY OF CHEYENNE/BOARD OF PUBLIC UTILITIES CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS, 2014”. REVISED PARAGRAPHS AND ADDITIONS WILL CORRESPOND TO THE STANDARD NUMERICAL AND TITLE DESIGNATIONS.

THE SPECIAL PROVISIONS MAY ALSO INCLUDE NEW SECTIONS OF SPECIFICATIONS NOT COVERED IN THE STANDARD SPECIFICATIONS AND WILL BE NUMBERED STARTING FROM SECTION 04000.
I. PROJECT DESCRIPTION
Currently the City of Cheyenne Landfill has 900 feet of a permanent litter fence that is 40 feet high. The litter fence sustained heavy damage from an ice storm, breaking 6 wood telephone poles. There is a 350-foot section of the existing fence line that needs to be replaced. The Landfill would also like to extend the permanent litter fence an additional 600 feet.

This proposal shall include two parts: “Option A” will consist of repairing the existing 350 feet of litter fence with the same material as originally constructed. “Option B” will consist of repairing the existing 350 feet of fence and adding an additional 600 feet of Litter Fence with upgraded material specifications. All replaced and newly constructed litter fence must be design and constructed to withstand a 100% covered fence with wind speeds up to 105 mph.

II. SCOPE OF WORK
A: Contractor shall provide and install all material and equipment needed for successful installation. The City of Cheyenne is requesting pricing for 2 Options (Option A & Option B). Bidders shall provide a price for both options.

B: Option A:
Forty foot high litter fence, replacing six (6) 2/50 CCA treated Wood Poles, 350 feet of G295T netting by Christen Net Works and all hardware with the following specifications:

1. All cable(s) are to be galvanized 9/16 inch or 3/8-inch 1x7 EHS steel cable or 7x19 Galvanized aircraft cable with a minimum breaking strength of 11,000 lbs.
2. All eyebolts and pole hardware are minimum 5/8-inch hot dipped galvanized steel.
3. Snap links are 5/16-inches and electro galvanized. Wire rope clips may be malleable and zinc plated or hot dipped galvanized,
4. Ground anchors for pole guying should be 10-inch helical anchors, set a minimum of 5 ft deep with a minimum holding capacity of 12,000 lbs.
5. Riblines in netting is 5/16 or 3/8 uv stabilized poly rope fastened to the netting with twine and or hog rings. Rope ends must be thimble and attached to cable or anchor at terminations. Rope must exceed a breaking strength of 3000 lbs.
6. Netting must be High Density Polyester HDPE mono filament netting.
   i. Netting must be designed to withstand 105 mph winds with 50% loading.
7. Poles are wood Southern Yellow Pine and Douglas Fir.
   i. Poles are Class 1 with a minimum circumference of 45 inches six feet from the bottom of the bottom of the pole.
   ii. Poles are 50 feet long.
8. Poles are placed in bored holes and packed with loose fill.
**Option B:**

Forty foot high Litter Fence, replacing six (6) wooden poles and extending the litter fence an additional 600 feet.

1. All cable(s) are to be galvanized 9/16 inch or 3/8-inch 1x7 EHS steel cable or 7x19 Galvanized aircraft cable with a minimum breaking strength of 11,000 lbs.
2. All eyebolts and pole hardware are minimum 5/8-inch hot dipped galvanized steel.
3. Snap links are 5/16-inches and electro galvanized. Wire rope clips may be malleable and zinc plated or hot dipped galvanized.
4. Ground anchors for pole guying should be 10-inch helical anchors, set a minimum of 5 ft deep with a minimum holding capacity of 12,000 lbs.
   a. Guy Wires attached to ground anchors must be adjustable and tightened from the ground level.
   b. Guy Wires will be on both the front and back of each pole installed.
5. Riblines in netting is 5/16 or 3/8 uv stabilized poly rope fastened to the netting with twine and or hog rings. Rope ends must be thimble and attached to cable or anchor at terminations. Rope must exceed a breaking strength of 3000 lbs.
   a. Each section of netting between poles: Riblines will be placed horizontally every ten feet, starting at ten feet, to the total height of the netting. Riblines will be attached to hardware, mounted on the poles.
   b. Two Riblines will be placed horizontally from each end of the net and attached to the poles, making an X pattern.
6. Top 30 feet of netting must be High Density Polyester HDPE mono filament netting. The bottom 10 feet of fence must be chain link fence, with metal poles spaced at a minimum of ten feet.
   a. Netting is to be attached to the chain link fence in a manner that does not damage any netting.
7. Poles should be Southern Yellow Pine or Douglas Fir, Class H1 with a minimum circumference at 6 feet from butt of 49.5 inches and a length no shorter than 55 feet.
   a. Pole borings will be filled with pea gravel, to help stabilize the poles.
8. The most important aspect of this fence repair and expansion is that the fence, netting, and hardware must be able to withstand a full trash load at wind speeds up to 90 miles per hour. The Contractor is encouraged to make suggestions at the pre-bid meeting that would help fortify the net from future damage, rendering it ineffective.

G: Contractor will submit a drawing of both Option A and Option B fence design to the City Representative in the Bid package.

H: Bid package will include the design specifications of hardware and other material and assumptions for the fence design.

I: “Option B” should be priced out by fifty foot section. The City may base length of expansion on the price of each section of fence.
J: Contractor must be aware of the two Wind Turbines that will be located near the Litter Fence and take all necessary precautions to ensure no damage or disruptions of operations occur while installing the fence.

K: Contractor will warranty the Fence Post, netting, and hardware for two years from installation.

L: Winning contractor will be responsible for obtaining all of the necessary Laramie County permits, including a site plan and all building permits

III. SCHEDULE AND COMPLETION DATE
The contractor will complete the job within 180 days of being awarded the contract.

IV. COORDINATION AND ACCESS
All coordination will be through the City Representative. Contractor will have access to the necessary site location during regular business hours. If additional hours are needed, times can be scheduled with the City Landfill Manager, phone # (307) 637-6279.

V. GENERAL REQUIREMENTS FOR CONTRACTOR
A: Contractor and Contractor personnel shall be licensed for the work they are performing.
B: All Contractor personnel shall be trained for the hazards present in the task they are performing (e.g. working at the required heights).
C: The Contractor shall have and follow a company safety plan.
D: The Contractor shall make any necessary adjustments to the air piping to ensure no existing piping or conduit is damaged.

VI. REQUIREMENTS FOR BID SUBMISSION
A: Submit three references from the last five years of successful Landfill Litter Fence projects. The References shall include Length of Fence, Height, Netting Material Used, and facility contact information.

VII. CLARIFICATION FOR AWARD & BID GUARANTEE
A: Bidders shall provide Pricing for Option A & Option B, however the City of Cheyenne will only be awarding One (1) of the Options. The Bid Guarantee (If Required) shall be submitted for the total of the highest priced Bid Option, but does not need to be submitted for Option A, Plus Option B.
Cheyenne Landfill
- Permanent Litter Fence

1461 Happy Jack Road
Cheyenne, WY 82009

DRAWING INDEX

For Installation
Job No. 18404-13
GENERAL NOTES

1. STRUCTURAL DRAWINGS OR PARTS OF STRUCTURAL DRAWING MAY NOT BE USED WITHOUT PRIOR CONSENT.

2. CONSTRUCTION SHOWN IS STABLE AFTER THE STRUCTURE IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING OF THE STRUCTURE DURING CONSTRUCTION.

DESIGN LOADS

1. REFERENCE STANDARD FOR LOADING ASCE 7-10

   A. BUILDING CLASSIFICATION

   1) WIND LOAD BASED ON W/ (1/2)
   2) BASIC WIND SPEED PER ASCE 7-10
   3) WIND EXPOSURE
   4) WIND PRESSURE
   5) FORCE COEFFICIENT (C)
   6) GUST FACTOR (G)
   7) SNOW AND ICE LOAD
   8) ICE DEAD LOAD - NET
   9) WIND ICE LOAD - NET
   10) SPM LOAD - NET
   11) OCCUPATION CATEGORY
   12) IMPORTANCE FACTOR

   FOUNDATIONS

   1. DIRECT EMBED POLES AS SHOWN, IN STABLE SOIL AND BACKFILL WITH COMPACTED SPOILS OR AGGREGATE.

   WOOD POLES

   1. WOOD POLES TO CONFIRM TO ANSI 65.1:2002 SOUTHERN YELLOW PINE
   2. PRESERVATIVE TREATMENT TO BE 0.6 CCA
   3. POLE TO BE CLASS 2/50 SYP

City of Cheyenne / Bid S-16-20 / Repair and Expansion of Landfill Permanent Litter Fence / Page 59 of 113
Geotechnical Engineering Report
Happy Jack Landfill Litter Control Fence
Cheyenne, Wyoming
May 31, 2016
Terracon Project No. 24185034

Prepared for:
City of Cheyenne
Cheyenne, Wyoming

Prepared by:
Terracon Consultants, Inc.
Cheyenne, Wyoming
May 31, 2018

City of Cheyenne
2101 O’Neil Avenue
Cheyenne, Wyoming 82001

Attn: Mr. Matt Theriault
P: (307) 637-6279
E: mtheriault@cheyennecity.org

Re: Geotechnical Engineering Report
Happy Jack Landfill Litter Control Fence
1461 Happy Jack Road
Cheyenne, Wyoming
Terracon Project No. 24185034

Dear Mr. Theriault:

We have completed the Geotechnical Engineering services for the project referenced above. This study was performed in general accordance with Terracon Proposal No. P24185034 dated May 9, 2018. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations for the proposed project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service, please contact us.

Sincerely,
Terracon Consultants, Inc.

[Signature]
Eric D. Bernhardt, P.E.
Senior Engineer
REPORT TOPICS

REPORT SUMMARY ........................................................................................................ i
INTRODUCTION ..................................................................................................... 1
SITE CONDITIONS .................................................................................................. 1
PROJECT DESCRIPTION .................................................................................. 2
GEOTECHNICAL CHARACTERIZATION ...................................................... 2
GEOTECHNICAL OVERVIEW ........................................................................ 3
EARTHWORK .......................................................................................................... 4
DEEP FOUNDATIONS .......................................................................................... 6
SPECIALTY FOUNDATIONS ........................................................................... 9
SEISMIC CONSIDERATIONS ........................................................................ 10
CORROSIIVITY .................................................................................................... 10
GENERAL COMMENTS ..................................................................................... 10

Note: This report was originally delivered in a web-based format. Orange Bold text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES
SITE LOCATION AND EXPLORATION PLANS
EXPLORATION RESULTS (Boring Logs and Laboratory Data)
SUPPORTING INFORMATION (General Notes and Unified Soil Classification System)

Responsive = Resourceful = Reliable
## REPORT SUMMARY

<table>
<thead>
<tr>
<th>Topic</th>
<th>Overview Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geotechnical Characterization</td>
<td>Subsoils generally consisted of sand with varying amount of silt, clay and gravel to the depths explored of approximately 25.5 with occasional lean clay layers. No groundwater was observed in the test borings during or shortly after completion of drilling to the depths explored.</td>
</tr>
<tr>
<td>Geotechnical Overview</td>
<td>The primary geotechnical condition that could impact design, construction and performance of the fence foundation is driving the pipe piles in the dense to very dense sand soils. This condition will require particular attention in project planning, design and during construction and is discussed in greater detail in the following sections.</td>
</tr>
<tr>
<td>Deep Foundations</td>
<td>Based on the lateral loading of the litter control fence, we understand the fence will be support on a deep foundation system consist of driven pipe piles and helical ground anchors.</td>
</tr>
<tr>
<td>Earthwork</td>
<td>On-site soils free of vegetation, organic matter and other unsuitable materials or low volume change import materials approved by Terracon may be used as fill/backfill material on the site provided they are place and compacted as described in this report. Import materials (if required) should be evaluated and approved by the geotechnical engineer prior to delivery to the site.</td>
</tr>
</tbody>
</table>

1. If the reader is reviewing this report as a pdf, the topics above can be used to access the appropriate section of the report by simply clicking on the topic itself.  
2. This summary is for convenience only. It should be used in conjunction with the entire report for decision making and design purposes. The section titled General Comments should be read for an understanding of the limitations of this geotechnical engineering report.  
3. Close monitoring of the construction operations and implementing drainage recommendations discussed in this report will be important in achieving the intended foundation, slab and pavement performance. We therefore recommend Terracon be retained to monitor this portion of the work.
Geotechnical Engineering Report
Happy Jack Landfill Litter Control Fence
1461 Happy Jack Road
Cheyenne, Wyoming
Terracon Project No. 24185034
May 31, 2018

INTRODUCTION

A geotechnical engineering report has been completed for the proposed litter control fence to be located at the Happy Jack Landfill location at 1461 Happy Jack Road in Cheyenne, Wyoming. Eight (8) borings, designated B-01 through B-08, were performed to depths of about 24.5 to 25.5 feet below existing ground surface near the proposed fence alignment. Maps showing the site and boring locations are shown in the Site Location and Exploration Plan sections, respectively. Boring logs and laboratory testing data are included in the Exploration Results section of this report.

The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil/bedrock conditions
- Groundwater conditions
- Site preparation and earthwork
- Foundation design and construction
- Seismic site classification

The recommendations contained in this report are based on the results of field and laboratory testing, engineering analyses, experience with similar soil conditions and structures, and our understanding of the proposed project.

SITE CONDITIONS

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>The project is located at 1461 Happy Jack Road in Cheyenne, Wyoming. The lot encompasses a little under 3 acres. The general location of the project site is 40.1385° N 104.9785° W. See Site Location</td>
</tr>
</tbody>
</table>

Responsive = Resourceful = Reliable
PROJECT DESCRIPTION

Our initial understanding of the project was provided in our proposal and was discussed in the project planning stage. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Provided</td>
<td>Our understanding of the project description is based off the information contained in the Bidding/Contract Documents for the City of Cheyenne Landfill Permanent Litter Fence (Bid No. S-15-18) and our conversation with you on May 3, 2018.</td>
</tr>
<tr>
<td>Project Description</td>
<td>The proposed litter control fence is planned to be approximately 40 feet in height and about 1,000 feet in length. The fence will be supported on a steel pole deep foundation with helical ground anchors.</td>
</tr>
<tr>
<td>Foundation</td>
<td>Foundation loads were not available at the time of this report as they will be developed by others. However, we understand the fence will be designed to support 105 mph winds at 50% capacity.</td>
</tr>
<tr>
<td>Grading</td>
<td>Assumed to be within 3 feet of existing grade.</td>
</tr>
</tbody>
</table>

GEOTECHNICAL CHARACTERIZATION

Subsurface Profile

The geotechnical characterization as described in the table and sections below forms the basis of our geotechnical calculations and evaluation of site preparation/earthwork and foundations. As noted in General Comments, the characterization is based upon widely spaced exploration points across the site, and variations are likely.

Subsurface conditions at the boring locations can be generalized as follows:
Conditions encountered at each boring location are indicated on the individual boring logs shown in the Exploration Results section and are attached to this report. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; in situ, the transition between materials may be gradual.

**Groundwater Conditions**

The boreholes were observed while drilling and after completion for the presence and level of groundwater. Groundwater was not observed in the borings while drilling, or for the short duration the borings were allowed to remain open. However, this does not necessarily mean these borings terminated above groundwater.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring logs. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

**GEOTECHNICAL OVERVIEW**

Based on geotechnical conditions encountered in our test borings, the site appears suitable for the proposed construction from a geotechnical point of view provided certain precautions and design and construction recommendations presented in this report are followed. The primary geotechnical condition that could impact design, construction and performance of the fence foundation is driving pipe piles in the dense to very dense sand soils. This condition will require particular attention in project planning, design and during construction and is discussed in greater detail in the following sections.
EARTHWORK

The following presents recommendations for site preparation, excavation, subgrade preparation and placement of engineered fills (if required) on the project. Earthwork on the project should be observed and evaluated by Terracon. The evaluation of earthwork should include observation and testing of engineered fill, subgrade preparation, foundation bearing soils, and other geotechnical conditions exposed during the construction of the project.

Site Preparation

Site preparation should commence with removal of existing vegetation, and topsoil from the proposed construction areas. Stripped materials consisting of vegetation and organic materials should be wasted from the site, or used to re-vegetate landscaped areas or exposed slopes after completion of grading operations.

Although evidence of underground facilities was not observed during the site reconnaissance, such features could be encountered during construction. If unexpected underground facilities are encountered, such features should be removed and the excavation thoroughly cleaned. Terracon should observe the excavation prior to backfill placement and/or construction.

Fill Material Types

On-site soils free of vegetation, organic matter and other unsuitable materials or low volume change import materials approved by Terracon may be used as fill/backfill material on the site. In general, imported materials meeting the properties presented below should be acceptable for use on the site. However, imported soils (if required) should be evaluated and approved by the geotechnical engineer prior to delivery to the site.

<table>
<thead>
<tr>
<th>Gradation/Property</th>
<th>Percent Finer by Weight (ASTM C136)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-inch</td>
<td>100</td>
</tr>
<tr>
<td>No. 4 Sieve</td>
<td>50 to 100</td>
</tr>
<tr>
<td>No. 200 Sieve</td>
<td>50 (max.)</td>
</tr>
<tr>
<td>Liquid Limit (LL)</td>
<td>30 (max.)</td>
</tr>
<tr>
<td>Plasticity Index (PI)</td>
<td>15 (max.)</td>
</tr>
</tbody>
</table>

Other import fill material types may be suitable for use on the site depending upon proposed application and location on the site and could be tested and approved for use on a case-by-case basis.
Compaction Requirements

Structural and general fill should meet the following compaction requirements.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fill lift thickness</td>
<td>9-inches or less in loose thickness when heavy, self-propelled compaction equipment is used</td>
</tr>
<tr>
<td></td>
<td>4 to 6 inches in loose thickness when hand-guided equipment (i.e. jumping jack or plate compactor) is used</td>
</tr>
<tr>
<td>Compaction requirements(^1)</td>
<td>At least 95% of the standard Proctor maximum dry density (ASTM D698)</td>
</tr>
<tr>
<td>Moisture content on-site or import sands(^2)</td>
<td>-2 to +2% of the optimum moisture content as determined by the standard Proctor test</td>
</tr>
</tbody>
</table>

1. Engineered fill should be placed and compacted in horizontal lifts, using equipment and procedures that will produce recommended moisture contents and densities throughout the lift. A construction disc or other suitable processing equipment will be needed to thoroughly process the materials and to aid in achieving uniform moisture content throughout the fill.

2. The contractor should expect some moisture adjustment and processing of the site soils or import materials will be needed prior to or during compaction operations.

3. Moisture conditioned cohesive soils (clays) should not be allowed to dry out. A loss of moisture within these materials will likely result in an increase of the materials swell potential. Subsequent wetting of these materials could result in undesirable movements.

4. Care should be taken during the fill placement process to avoid zones of dissimilar fill. Improvements constructed over varying fill types are at a higher risk of differential movement compared to improvements over a uniform fill zone.

Grading and Drainage

All grades must provide effective drainage away from the fence during and after construction and should be maintained throughout the life of the structure. Water retained next to the fence can result in soil movements greater than those discussed in this report. Greater movements can result in unacceptable foundation movements.

Earthwork Construction Considerations

As a minimum, excavations should be performed in accordance with OSHA 29 CFR, Part 1926, Subpart P, "Excavations" and its appendices, and in accordance with any applicable local, and/or state regulations.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.
Construction Observation and Testing and Foundation/Pile Observation

The earthwork efforts should be monitored under the guidance of Terracon. Monitoring should include documentation of adequate removal of vegetation and top soil, proof-rolling and mitigation of areas delineated by the proof-roll to require mitigation. Each lift of compacted fill should be tested, evaluated, and reworked as necessary until approved by the Geotechnical Engineer prior to placement of additional lifts.

In areas of foundation excavations, the bearing subgrade should be evaluated under the guidance of Terracon. In the event unanticipated conditions are encountered, we should prescribe mitigation options.

In addition to the documentation of the essential parameters necessary for construction, the continuation of Terracon into the construction phase of the project provides the continuity to maintain our evaluation of subsurface conditions, including assessing variations and associated design changes

DEEP FOUNDATIONS

Driven Pile Design Parameters

The following table can be used to estimate capacities for individual, driven pipe piles. The values are considered to be adequate for estimation of allowable (safety factor applied) load carrying capacity for driven piles ranging in depth from 10 to 30 feet. Driven piles should be spaced at least three pile widths apart (center-to-center) if side friction is used for compressive loads.

<table>
<thead>
<tr>
<th>Material Depth (feet)</th>
<th>Stratigraphy</th>
<th>Allowable Skin Friction (psf)</th>
<th>Allowable End Bearing Pressure (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 5</td>
<td>Sand / Lean Clay</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5 – 15</td>
<td>Dense to Very Dense Sand</td>
<td>100</td>
<td>5,000</td>
</tr>
<tr>
<td>15 – 25.5</td>
<td>Dense to Very Dense Sand</td>
<td>100</td>
<td>8,000</td>
</tr>
</tbody>
</table>
Drive Pipe Pile Design Summary

<table>
<thead>
<tr>
<th>Material Depth (feet)</th>
<th>Stratigraphy</th>
<th>Allowable Skin Friction (psf)</th>
<th>Allowable End Bearing Pressure (psf)</th>
</tr>
</thead>
</table>

1. Design capacities are dependent upon the method of installation, and quality control parameters. The values provided are estimates and should be verified when installation protocol have been finalized.

2. Design capacities can be increased by 33% for highly transient loads.

3. See Subsurface Profile in Geotechnical Characterization for more details on stratigraphy.

4. Applicable for compressive loading only. Reduce to 2/3 of values shown for uplift loading. Effective weight of pile can be added to uplift load capacity.

5. We recommend that skin friction in the upper 5 feet be neglected for calculations of drilled shaft capacity because of the effects of frost penetration and consideration of the potential wetting zone.

Driven Pile Lateral Loading

The following table lists input values for use in LPILE analyses. LPILE will estimate values of $k_n$ and $E_{50}$ based on strength; however, non-default values of $k_n$ should be used where provided, in particular for the sand strata. Since deflection or a service limit criterion will likely control lateral capacity design, no safety/resistance factor is included with the parameters.

<table>
<thead>
<tr>
<th>Stratigraphy</th>
<th>L-Pile Soil Model</th>
<th>$S_u$ (psf)</th>
<th>$\phi$</th>
<th>$\gamma$ (pcf)</th>
<th>$\varepsilon_{50}$</th>
<th>$K$ (pci)</th>
<th>$q_u$ (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dense to very dense sand</td>
<td>Sand (Reese)</td>
<td>---</td>
<td>36°</td>
<td>115</td>
<td>---</td>
<td>125</td>
<td>125</td>
</tr>
</tbody>
</table>

1. See Subsurface Profile in Geotechnical Characterization for more details on Stratigraphy.

2. Definition of Terms:
   - $S_u$: Undrained shear strength
   - $\phi$: Internal friction angle
   - $\gamma$: Moist unit weight
   - $\varepsilon_{50}$: Non-default E50 strain
   - $K$: Horizontal modulus of subgrade reaction
   - $q_u$: Non-default soil modulus — static. Refer to software guidelines for cyclic loading.

3. Buoyant unit weight values should be used below water table.

When piles are used in groups, the lateral capacities of the piles in the second, third, and subsequent rows of the group should be reduced as compared to the capacity of a single, independent pile. Guidance for applying p-multiplier factors to the p values in the p-y curves for each row of pile foundations within a pile group are as follows:
- Front row: $P_m = 0.8$;
- Second row: $P_m = 0.4$
- Third and subsequent row: $P_m = 0.3$.

The load capacities provided herein are based on the stresses induced in the supporting soil strata. The structural capacity of the piles should be checked to assure they can safely accommodate the combined stresses induced by axial and lateral forces. Lateral deflections of piles should be evaluated using an appropriate analysis method, and will depend upon the pile's diameter, length, configuration, stiffness and "fixed head" or "free head" condition. We can provide additional analyses and estimates of lateral deflections for specific loading conditions upon request. The load-carrying capacity of piles may be increased by increasing the section (for H-piles), diameter (for pipe piles) and/or length.

**Driven Pile Construction Considerations**

The contractor should select a driving hammer and cushion combination which can install the selected piling without overstressing the pile material. The hammer should have a rated energy in foot-pounds at least equal to 15 percent of the design compressive load capacity in pounds. The contractor should submit the pile driving plan and the pile hammer-cushion combination to the engineer for evaluation of the driving stresses in advance of pile installation. During driving a maximum of 10 blows per inch is recommended to reduce the potential of damage to the piles.

Difficult driving could also be encountered in the dense to very dense sand soils. The structural engineer and contractor should review this report and information contained in the boring logs to appropriately design and implement installation methods based on the subsurface conditions presented in this report. The contractor should be prepared to cut or splice piles, as necessary. Splicing of piles should be in accordance with specifications provided by the project Structural Engineer.

Pile driving conditions, hammer efficiency, and stress on the pile during driving could be better evaluated during installation using a Pile Driving Analyzer (PDA). A Terracon representative should observe pile driving operations. Each pile should be observed and checked for buckling, crimping and alignment in addition to recording penetration resistance, depth of embedment, and general pile driving operations.
SPECIALTY FOUNDATIONS

Helical Pile Foundations

We believe helical piles bottomed dense to very dense sand are appropriate for additional support of the proposed litter control fence. Design recommendations for helical pile foundations and related structural elements are presented in the following paragraphs.

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing material</td>
<td>Dense to very dense sand soil</td>
</tr>
<tr>
<td>Anticipated pile length</td>
<td>About 10 to 20 feet from the ground surface</td>
</tr>
<tr>
<td>Net allowable end-bearing pressure ¹</td>
<td>8,000 psf</td>
</tr>
<tr>
<td>Individual pile settlement</td>
<td>About ½ inch</td>
</tr>
<tr>
<td>Void thickness (between piles and below pile caps)</td>
<td>4 inches</td>
</tr>
</tbody>
</table>

We do not recommend using vertically installed helical piles to resist lateral loads without approved lateral load test data, as these types of foundations are typically designed to resist axial loads. Only the horizontal component of the allowable axial load should be considered to resist the lateral loading and only in the direction of the batten. Terracon should be retained to observe helical pile installation to verify that proper bearing materials have been encountered during installation.

In accordance with local building code requirements, a load test should be performed by the helical pile installer to validate achieving the allowable design load. Load tests should be performed using helical piles consistent in size and materials with those piles planned for use during construction. Similarly, the same installation techniques and equipment planned for use during installation of production piles should be used when installing piles for load testing.

If a helical pile foundation system is selected by the project team, we recommend the helical pile designer follow the recommendations presented in Chapter 18 of the 2009/2012 International Building Code (IBC). We recommend the helical bearing plates for each helical pile bear in the claystone bedrock encountered below the site. We do not recommend helical bearing plates bottomed in native clay soils. The helical pile designer should select the size and number of helical bearing plates for each helical pile based on planned loads and bearing materials described in our exploratory boring logs. Torque measurements during installation of helical piles should be used to verify the axial capacity of the helical piles. Terracon should be provided with the torque to capacity relationships for each type of pile used on the project for our review and comment prior to mobilization to the site. We recommend the helical pile installation contractor provide confirmation that the installation equipment has been calibrated within one year of installation at this project. The
helical foundations should be installed by a qualified specialty contractor per the manufacturer's recommendations.

SEISMIC CONSIDERATIONS

<table>
<thead>
<tr>
<th>Code Used</th>
<th>Site Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015 International Building Code (IBC)</td>
<td>D</td>
</tr>
</tbody>
</table>

1. In general accordance with the 2015 International Building Code, which refers to ASCE 7, Chapter 20 (Table 20.3-1 of ASCE 7-10). IBC Site Class is based on the average characteristics of the upper 100 feet of the subsurface profile.

2. The deepest boring for this project extended to a maximum depth of approximately 25.5 feet and this seismic site class definition considers that similar soil conditions continue below the maximum depth of the subsurface exploration.

CORROSIVITY

The table below lists the results of laboratory soluble sulfate, soluble chloride, electrical resistivity, Red-Ox, and pH testing. The values may be used to estimate potential corrosive characteristics of the on-site soils with respect to contact with the various underground materials which will be used for project construction.

<table>
<thead>
<tr>
<th>Corrosivity Test Results Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boring</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>B-09</td>
</tr>
</tbody>
</table>

1. Laboratory resistivity testing was performed on saturated soil.

Results of soluble sulfate testing indicate samples of the on-site soils tested possess moderate sulfate concentrations when classified in accordance with Table 4.3.1 of the ACI Design Manual. Concrete should be designed in accordance with the provisions of the ACI Design Manual, Section 318, Chapter 4.

GENERAL COMMENTS

As the project progresses, we address assumptions by incorporating information provided by the design team, if any. Revised project information that reflects actual conditions important to our services is reflected in the final report. The design team should collaborate with Terracon to confirm these assumptions and to prepare the final design plans and specifications. This facilitates the incorporation of our opinions related to implementation of our geotechnical recommendations.
Any information conveyed prior to the final report is for informational purposes only and should not be considered or used for decision-making purposes.

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Natural variations will occur between exploration point locations or due to the modifying effects of construction, and weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in the final report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our scope of services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third party beneficiaries intended. Any third party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client, and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.
EXPLORATION AND TESTING PROCEDURES

Field Exploration

<table>
<thead>
<tr>
<th>Number of Borings</th>
<th>Boring Depth (feet)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>24.5 to 25.5</td>
<td>Litter Fence Alignment</td>
</tr>
</tbody>
</table>

Boring Layout and Elevations: The borings were located in the field by the City of Cheyenne. The boring coordinates and elevations were provided to Terracon and accuracy of the locations should only be assumed to the level implied by the methods used by the City.

Subsurface Exploration Procedures: Borings were advanced with a CME-55 truck-mounted drilling rig, utilizing 4-inch diameter-solid-stem auger. A field scientist recorded lithologic logs of each boring during the drilling operations. At selected intervals, samples of the subsurface materials were taken by means of driving a standard split-spoon or 2.5-inch O.D. modified California barrel sampler. Penetration resistance measurements were obtained by driving the split-spoon or California barrel into the subsurface materials with a 140-pound hammer falling 30 inches. The penetration resistance value, when properly interpreted, is a useful index in estimating the consistency, relative density, or hardness of the materials encountered.

Groundwater levels were recorded in each boring shortly after completion of drilling. Due to safety considerations, the borings were backfilled following the completion of drilling operations; therefore subsequent groundwater measurements were not obtained. Some settlement of the backfill may occur over time and should be repaired as soon as possible.

A CME automatic SPT hammer was used to advance the split-spoon and/or California barrel sampler in the borings performed on this site. A greater efficiency is typically achieved with the automatic hammer compared to the conventional safety hammer operated with a cathead and rope. Published correlations between penetration values and soil properties are based on the lower efficiency cathead and rope method. This higher efficiency affects the penetration resistance blow count value by increasing the penetration per hammer blow over what would be obtained using the cathead and rope method. The effect of the automatic hammer's efficiency has been considered in the interpretation and analysis of the subsurface information for this report.

The penetration test provides a reasonable indication of the in-place density of sandy type materials, but only provides an indication of the relative stiffness of cohesive materials since the blow count in these soils may be affected by the soils moisture content.
Laboratory Testing

Samples retrieved during the field exploration were returned to the laboratory for observation by the project geotechnical engineer and were visually classified in general accordance with the Unified Soil Classification System described in the Supporting Information section of this report.

After sample review by the project engineer, an applicable laboratory testing program was formulated to determine engineering properties of the subsurface materials. Following completion of the laboratory testing, the field and visual descriptions were confirmed or modified as necessary, and Logs of Borings were prepared. These logs are presented in the Exploration Results section of this report.

Selected samples were tested for the following physical and/or engineering properties:

- Moisture Content
- Dry Unit Weight
- Percent Fines/Grain Size
- Atterberg Limits
- Water Soluble Sulfate Content
- Corrosion Potential
- pH and Resistivity

Laboratory test results are indicated on the boring logs and are presented in depth in the Exploration Results section. The test results are used for the geotechnical engineering analyses and the development of foundation recommendations. Laboratory tests are performed in general accordance with applicable local standards or other accepted standards. Procedural standards noted in this report are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Descriptive classifications of the soils indicated on the boring logs are in accordance with the enclosed General Notes and the Unified Soil Classification System. Also shown are estimated Unified Soil Classification Symbols. A brief description of this classification system as well as the General Notes can be found in the Supporting Information section. Classification was by visual-manual procedures. Selected samples were further classified using the results of Atterberg limit and percent fines testing. The Atterberg limit test results are also provided in the Exploration Results section.
SITE LOCATION AND EXPLORATION PLANS
EXPLORATION RESULTS
# ATTERBERG LIMITS RESULTS

**ASTM D4318**

<table>
<thead>
<tr>
<th>Boring ID</th>
<th>Depth</th>
<th>LL</th>
<th>PL</th>
<th>PI</th>
<th>Fines</th>
<th>USCS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-01</td>
<td>9 - 10.5</td>
<td>NP</td>
<td>NP</td>
<td>NP</td>
<td>2</td>
<td>SW</td>
<td>WELL-GRADED SAND</td>
</tr>
<tr>
<td>B-02</td>
<td>14 - 15</td>
<td>29</td>
<td>18</td>
<td>11</td>
<td>1</td>
<td>SP</td>
<td>POORLY GRADED SAND</td>
</tr>
<tr>
<td>B-04</td>
<td>2 - 3.5</td>
<td>26</td>
<td>16</td>
<td>10</td>
<td>10</td>
<td>SP-SC</td>
<td>POORLY GRADED SAND with CLAY</td>
</tr>
<tr>
<td>B-05</td>
<td>4 - 5.5</td>
<td>23</td>
<td>17</td>
<td>10</td>
<td>10</td>
<td>SC-SM</td>
<td>SILTY, CLAYEY SAND</td>
</tr>
<tr>
<td>B-07</td>
<td>9 - 10.5</td>
<td>NP</td>
<td>NP</td>
<td>NP</td>
<td>4</td>
<td>SW</td>
<td>WELL-GRADED SAND</td>
</tr>
<tr>
<td>B-08</td>
<td>14 - 15.5</td>
<td>NP</td>
<td>NP</td>
<td>NP</td>
<td>8</td>
<td>SP-SM</td>
<td>POORLY GRADED SAND with SILT</td>
</tr>
</tbody>
</table>
### Results of Corrosion Analysis

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Location</td>
<td>B-06</td>
</tr>
<tr>
<td>Sample Depth (ft.)</td>
<td>3.0-9.0</td>
</tr>
<tr>
<td>pH Analysis, ASTM G51</td>
<td>8.58</td>
</tr>
<tr>
<td>Water Soluble Sulfate (SO4), ASTM C 1580 (mg/kg)</td>
<td>90</td>
</tr>
<tr>
<td>Chlorides, ASTM D 512, (mg/kg)</td>
<td>47</td>
</tr>
<tr>
<td>Red-Ox, AWWA 2580, (mV)</td>
<td>+712</td>
</tr>
<tr>
<td>Resistivity, ASTM G 57, (ohm-cm)</td>
<td>1358</td>
</tr>
</tbody>
</table>

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

- Analyzed By: Trisha Campo
- Chemist
**WATER LEVEL**

- Water Initially Encountered
- Water Level After a Specified Period of Time
- Water Level After a Specified Period of Time

Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.

**FIELD TESTS**

- N Standard Penetration Test Resistance (Blows/Flt)
- (HP) Hand Penetrometer
- (T) Torvane
- (DCP) Dynamic Cone Penetrometer
- UC Unconfined Compressive Strength
- (PID) Photo-Ionization Detector
- (OVA) Organic Vapor Analyzer

---

**DESCRIPTIVE SOIL CLASSIFICATION**

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

---

**LOCATION AND ELEVATION NOTES**

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

---

**RELATIVE DENSITY OF COARSE-GRAINED SOILS**

<table>
<thead>
<tr>
<th>Descriptive Term (Density)</th>
<th>Standard Penetration or N-Value Blows/Flt</th>
<th>Descriptive Term (Consistency)</th>
<th>Unconfined Compressive Strength Cu, (psf)</th>
<th>Standard Penetration or N-Value Blows/Flt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Loose</td>
<td>0 - 3</td>
<td>Very Soft</td>
<td>less than 500</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Loose</td>
<td>4 - 9</td>
<td>Soft</td>
<td>500 to 1,300</td>
<td>2 - 4</td>
</tr>
<tr>
<td>Medium Dense</td>
<td>10 - 29</td>
<td>Medium Stiff</td>
<td>1,000 to 2,000</td>
<td>4 - 8</td>
</tr>
<tr>
<td>Dense</td>
<td>30 - 50</td>
<td>Stiff</td>
<td>2,000 to 4,000</td>
<td>8 - 15</td>
</tr>
<tr>
<td>Very Dense</td>
<td>&gt; 50</td>
<td>Very Stiff</td>
<td>4,000 to 8,000</td>
<td>15 - 30</td>
</tr>
<tr>
<td>Hard</td>
<td>&gt; 8,000</td>
<td>Hard</td>
<td>&gt; 30</td>
<td></td>
</tr>
</tbody>
</table>

**STRENGTH TERMS**

**CONSISTENCY OF FINE-GRAINED SOILS**

Consistency determined by laboratory linear strength testing, field visual-manual procedures or standard penetration resistance.

---

**RELATIVE PROPORTIONS OF SAND AND GRAVEL**

<table>
<thead>
<tr>
<th>Descriptive Term(s) of other constituents</th>
<th>Percent of Dry Weight</th>
<th>Descriptive Term(s) of other constituents</th>
<th>Percent of Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trace</td>
<td>&lt;15</td>
<td>Trace</td>
<td>&lt;5</td>
</tr>
<tr>
<td>With</td>
<td>15-25</td>
<td>With</td>
<td>5-12</td>
</tr>
<tr>
<td>Modifier</td>
<td>&gt;30</td>
<td>Modifier</td>
<td>&gt;12</td>
</tr>
</tbody>
</table>

---

**GRAIN SIZE TERMINOLOGY**

<table>
<thead>
<tr>
<th>Major Component of Sample</th>
<th>Particle Size</th>
<th>Term</th>
<th>Plasticity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boulders</td>
<td>Over 12 in. (300 mm)</td>
<td>Non-plastic</td>
<td>0</td>
</tr>
<tr>
<td>Cobblels</td>
<td>12 in. to 3 in. (300mm to 75mm)</td>
<td>Low</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Gravel</td>
<td>3 in. to #4 sieve (78mm to 4.75 mm)</td>
<td>Medium</td>
<td>11 - 30</td>
</tr>
<tr>
<td>Sand</td>
<td>#4 to #200 sieve (4.75mm to 0.475mm)</td>
<td>High</td>
<td>&gt; 30</td>
</tr>
<tr>
<td>Silt or Clay</td>
<td>Passing #200 sieve (0.075mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**PLASTICITY DESCRIPTION**

City of Cheyenne / Bid S-16-20 / Repair and Expansion of Landfill Permanent Litter Fence / Page 87 of 113
### Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests

<table>
<thead>
<tr>
<th>Soil Classification</th>
<th>Group Symbol</th>
<th>Group Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clean Gravels:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravels: Less than 5% fines</td>
<td>Cu ≥ 4 and 1 ≤ Cc &lt; 3</td>
<td>E</td>
</tr>
<tr>
<td>Gravels with Fines: More than 12% fines</td>
<td>Cu &lt; 4 and/or 1 &gt; Cc ≥ 3</td>
<td>E</td>
</tr>
<tr>
<td>Clean Sands: Less than 5% fines</td>
<td>Cu ≥ 6 and 1 ≤ Cc ≤ 3</td>
<td>E</td>
</tr>
<tr>
<td>Sands: More than 12% fines</td>
<td>Cu &lt; 6 and/or 1 &gt; Cc ≥ 3</td>
<td>E</td>
</tr>
<tr>
<td>Inorganic:</td>
<td>PI &gt; 7 and plots on or above &quot;A&quot;</td>
<td></td>
</tr>
<tr>
<td>Organic:</td>
<td>Liquid limit - oven dried</td>
<td></td>
</tr>
<tr>
<td>Slits and Clays: Liquid limit less than 50</td>
<td>Liquid limit - not dried</td>
<td></td>
</tr>
<tr>
<td>Inorganic:</td>
<td>PI plots on or above &quot;A&quot; line</td>
<td></td>
</tr>
<tr>
<td>Organic:</td>
<td>Liquid limit - oven dried</td>
<td></td>
</tr>
<tr>
<td>Slits and Clays: Liquid limit 50 or more</td>
<td>Liquid limit - not dried</td>
<td></td>
</tr>
</tbody>
</table>

### Highly organic soils:
- Primarily organic matter, dark in color, and organic odor
- Peat

- **Notes:**
  - A: Based on the material passing the 3-inch (75-mm) sieve
  - B: If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
  - C: Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
  - D: Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
  - E: Cu = D₁₀/D₆₀  Cc = (D₁₀)² / D₁₀ x D₆₀
  - F: If soil contains > 15% sand, add "with sand" to group name.
  - G: If fines classify as CL-ML, use dual symbol GC-GM, or SC-SC.
  - H: If fines are organic, add "with organic fines" to group name.
  - I: If soil contains ≥ 15% gravel, add "with gravel" to group name.
  - J: If Atterberg limits plot in shaded area, soil is a CL-ML, SILY clay.
  - K: If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
  - L: If soil contains ≥ 30% plus No. 200, predominantly sand, add "sandy" to group name.
  - M: If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravely" to group name.
  - N: PI ≥ 4 and plots on or above "A" line.
  - O: PI < 4 or plots below "A" line.
  - P: PI plots on or above "A" line.
  - Q: PI plots below "A" line.

---

**For classification of fine-grained soils and fine-grained fraction of coarse-grained soils**

- **Equation of "A" - line**
  - Horizontal at PI=4 to LL=25.5, then PI=0.73 (LL-20)

- **Equation of "U" - line**
  - Vertical at LL=16 to PI=7, then PI=0.9 (LL-8)
# TABLE OF CONTENTS

## 1.00 VALUE ENGINEERING

- 1.00 VALUE ENGINEERING .................................................................................................................. 1

## 2.00 REFERENCES

- 2.00 REFERENCES .................................................................................................................................. 1
  - 2.01 Coordination of Contract Documents ......................................................................................... 1
  - 2.02 Reference Specifications ............................................................................................................. 2

## 3.00 TRAFFIC CONTROL

- 3.00 TRAFFIC CONTROL ...................................................................................................................... 2
  - 3.01 Construction Phasing .................................................................................................................. 2
  - 3.02 Traffic Control Requirements ..................................................................................................... 3
  - 3.03 Notifying Affected Parties .......................................................................................................... 3
  - 3.04 Parking Restrictions .................................................................................................................... 3
  - 3.05 Traffic Disruption and Obstructions ............................................................................................ 3
  - 3.06 Property Access .......................................................................................................................... 4
  - 3.07 Emergency Access ...................................................................................................................... 4

## 4.00 CONTROL OF WORK

- 4.00 CONTROL OF WORK ..................................................................................................................... 4
  - 4.01 Construction Stakes, Lines, and Grades ...................................................................................... 4
  - 4.02 Land Provided by the City ......................................................................................................... 5
  - 4.03 Land Provided by the Contractor ............................................................................................... 5
  - 4.04 Protection and Restoration of Property, Markers, and Landscape ............................................. 6
  - 4.05 Cooperation by the Contractor .................................................................................................. 7
  - 4.06 Cooperation between Contractors ............................................................................................. 8
  - 4.07 Maintenance during Construction ............................................................................................... 8

## 5.00 CONTROL OF MATERIAL

- 5.00 CONTROL OF MATERIAL ............................................................................................................. 8
  - 5.01 Inspection and Testing for Quality Control.................................................................................. 8
  - 5.02 Unacceptable Materials .............................................................................................................. 9
  - 5.03 Storage of Materials ................................................................................................................... 10
  - 5.04 City-Furnished Material ............................................................................................................ 10
  - 5.05 Rights In and Use of Material Found in the Work .................................................................... 10
5.06 Removal and Salvage of Materials .............................................................. 11
5.07 Material Spoil Area/Waste Site ................................................................. 11
5.08 Load Restrictions ..................................................................................... 11

6.00 RESPONSIBILITY FOR UTILITY PROCEDURES AND SERVICES ........ 12
6.01 Location ........................................................................................................ 12
6.02 Utility Line Conflicts and Damage ............................................................... 12

7.00 WORK SCHEDULE AND CONDITIONS .................................................. 13
7.01 Pre-Construction Conference .................................................................... 13
7.02 Weekly Conference .................................................................................... 13
7.03 Work Progress ............................................................................................ 13
7.04 Working Days and Time ............................................................................ 13
7.05 Schedule ...................................................................................................... 15
7.06 Requirements for Workers, Methods, and Equipment ............................... 17
7.07 Suspension of Work .................................................................................... 17
7.08 Extension of Contract Completion Date .................................................... 19
7.09 Concurrent Delays ...................................................................................... 19
7.10 Weather Days ............................................................................................. 20

8.00 MEASUREMENT AND PAYMENT ............................................................ 20
8.01 Measurement of Quantities ......................................................................... 20
8.02 Compensation for Altered Quantities ......................................................... 21
8.03 Monthly Progress Payment ........................................................................ 21
8.04 Payment for Material on Hand ................................................................... 21

9.00 MOBILIZATION ........................................................................................... 22
1.00 VALUE ENGINEERING

A Value Engineering Proposal (“VEP”) is a creative proposal initiated by the Contractor to amend the Contract to use an alternate method, design, material, or similar element, to reduce the project’s cost or improve its outcome for both the City of Cheyenne’s (the “City’s”) and the Contractor’s benefit.

The Contractor may submit a VEP for consideration by the City and the City Engineer (the “Engineer”) after the City awards the contract. The Contractor shall submit a VEP in accordance with the procedure outlined in the current edition of the Wyoming Department of Transportation Standard Specifications for Road and Bridge Construction (“WYDOT Standard Specifications for Road and Bridge Construction”), Subsection 104.3.4, “Submitting a VECP”.

The City will not consider VEPs that are cost reductions resulting from corrections to design errors; that are inconsistent with the City’s design policies and criteria for the project; or that may require excessive time or cost for review.

If the City and the Engineer accept a VEP which results in a net reduction in the contract price, the Contractor will share proportionally with the City in the net savings (City 50%; Contractor 50%), less the cost of the Engineer’s time required to evaluate the VEP. Net savings are defined as savings available after deducting VEP evaluation costs.

2.00 REFERENCES

2.01 Coordination of Contract Documents. Revise City of Cheyenne & Board of Public Utilities Standard Construction Specifications and Standard Drawings, 2014 Edition (“City Standard Specifications and Drawings” or separately as “Standard Specifications” or “Standard Drawings”) Section 01090, REFERENCES, item 1.01.A. as follows, by deleting the hierarchy list included (items 1 thru 4), and replace with the following in order of precedence:

1. Permits from other agencies as required by law;
2. Successive change orders and contract modifications in order of issuance, most recent first;
3. Addenda;
4. Contract;
5. City-obtained agreements;
6. Special Provisions;
7. General Conditions;
8. Project Plans;
9. Standard Drawings;
10. Standard Specifications;
11. Electronic CADD Files; and

Detailed plans shall have precedence over general plans.

2.02 **Reference Specifications.** The City Standard Specifications and Drawings, and all revisions through the advertisement date, constitute the current Standard Specifications and Standard Drawings for this project. They are an integral part of the Contract and are incorporated herein by reference. The Contractor shall adhere to all requirements and provisions of said City Standard Specifications and Standard Drawings in the performance of this Contract, except where otherwise provided herein or otherwise shown on the Contract Drawings.

Contract references to standard test methods or specifications such as those from the American Association of State Highway and Transportation Officials (“AASHTO”), the American Society for Testing and Materials (“ASTM”), or similar professional organizations, refer to the methods and specifications in effect on the advertised date of the public bid opening. If a later change to a cited document affects successful completion of the project, the City will incorporate the new reference with a contract modification.

All work shown on the Contract Drawings and Standard Specifications which refer to the Wyoming Department of Transportation (“WYDOT”) shall be constructed in accordance with the current editions of the WYDOT Standard Specifications for Road and Bridge Construction and WYDOT Standard Plans and all revisions through the date of advertisement.

*It is the bidder’s responsibility to acquire the latest editions of all the Specifications, Standard Drawings, and Manuals.*

3.00 **TRAFFIC CONTROL**

3.01 **Construction Phasing.** When a construction phasing or traffic control plan is included in the project plans, this plan shall govern unless an alternate plan, acceptable to the City, is submitted to the Engineer by the Contractor. If no traffic control plan is provided or if the Contractor desires to deviate from the provisions for maintaining traffic as described in the contract documents, the Contractor shall submit to the Engineer for approval a proposed sequence of operations and a compatible method of maintaining vehicle, pedestrian, and bicycle traffic. The Contractor shall submit the proposal for review and approval at least ten (10) Working Days prior to its intended implementation. The City reserves the right, in its sole discretion, to reject any construction phasing or traffic control proposal for any reason whatsoever.
3.02 **Traffic Control Requirements.** The Contractor shall provide adequate signs, barricades, lights, flares, flaggers, take all necessary precautions to prevent accident or injury, and minimize the public’s inconvenience while the work is in progress. Any traffic control or construction phasing drawings shown in the project plans are conceptual only. The Contractor shall submit a detailed traffic control diagram to the City for prior approval before work begins. The diagram shall indicate location and type of signs, cones, flashers, flagging, reflective barricades, and all other devices the Contractor deems necessary for the proper protection of the work area. The Contractor shall install and maintain all traffic control and protective devices in accordance with the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways (“MUTCD”).

3.03 **Notifying Affected Parties.** The Contractor shall notify all homeowners and businesses it anticipates will be affected by any work no less than two (2) Working Days, as defined by section 7.04, “Working Days and Time”, before work is scheduled to commence. All written notifications shall be approved by the City prior to distribution. The Contractor shall notify all homeowners and businesses again if the work does not begin on the specified day, as anticipated. The notice shall be a written posting, hand delivered to the property, stating the anticipated start-date and duration of such work containing parking restriction information, and a phone number for the Superintendent or Project Manager. The Contractor shall not place notices in mailboxes.

3.04 **Parking Restrictions.** If work requires parking restrictions, the Contractor shall place “No Parking” signs along the affected area a minimum of forty-eight (48) hours prior to the beginning of work. The Contractor shall place “No Parking” signs a maximum of seventy-five (75) feet apart, but at no time fewer than two per block, per side. The City will only tow vehicles from the work area if they remain parked on the street after the Contractor provided proper written notice and placed “No Parking” signs. If the Contractor provides insufficient notice to affected parties, the Engineer must approve towing vehicles parked on the street, and such towing shall be at the Contractor’s expense.

3.05 **Traffic Disruption and Obstructions.** The Contractor shall minimize obstructions to vehicle, pedestrian, and bicycle traffic; minimize disruption to transit routes; and give consideration to the location of detours and provisions for handling traffic. The Contractor shall provide for the safety and convenience of both the general public and residents near the work. The Contractor’s travel rights do not supersede the public’s travel rights.

Whenever, in the Engineer’s opinion, the Contractor has not provided sufficient or proper safety precautions, the Contractor shall do so immediately and to whatever extent the Engineer requires. This provision shall not be construed as creating any duty on the part of the Engineer for traffic safety.

Fire hydrants on or near the site of the work shall be accessible at all times.
The Contractor shall not close any streets, driveways, access points, or any transit stops without prior consent of the City, Engineer, and proper governmental authorities affected by the closure or having authority over such area. The Contractor is required to request approval from the Engineer at least five (5) Working Days prior to the planned date of physical closure of any street or transit stop. Submittal or approval of a traffic control plan alone does not constitute notice or approval of the date of start of closure.

3.06 **Property Access.** The Contractor shall provide temporary approaches to businesses and residences adjacent to the roadway, intersections, detours, crossings, or similar features or facilities to safely accommodate customary vehicular or pedestrian traffic affected by the work.

3.07 **Emergency Access.** The Contractor shall be prepared at all times to provide immediate access for emergency vehicles to any buildings or other areas adjacent to the project and shall, upon emergency personnel request, construct temporary ramps and other facilities required for such emergency access. The City will make no additional payment to the Contractor for any delays or cost incurred by the Contractor in providing such emergency access.

4.00 **CONTROL OF WORK**

4.01 **Construction Stakes, Lines, and Grades.** The Contractor shall provide all construction surveying and stakeout required to accurately build and complete the project. The Engineer will establish primary project control only, but if the Engineer determines that additional project control is needed, the Engineer may direct the Contractor to establish additional project control under the direct supervision of a licensed Wyoming Professional Land Surveyor. The Engineer may provide an electronic point file or CADD files to the Contractor for use in construction staking.

The Contractor shall preserve all survey stakes and marks. If any of the primary project control survey marks are destroyed or disturbed due to the Contractor’s construction activities or negligence, the Contractor shall be charged at the Engineer’s established hourly crew rate for replacing them, with payment for this extra work made directly to the City’s Consultant by deduction from the monthly periodic estimate payments to the Contractor. The Contractor shall also be responsible for any mistakes or damage resulting from the unnecessary loss or disturbances of control points, offset line points, and stakes.

The Contractor is responsible for scheduling all surveying and shall consider all phasing, sequencing, and construction limits required by all specifications. The Contractor shall review the survey stakes to ensure there is no discrepancy between the drawings and the survey stakes. If there is a discrepancy, the Contractor shall stop work immediately and notify the Engineer without delay.
The Contractor shall provide the survey data to the Engineer to verify elevations, resolve grade issues, and to otherwise use as the Engineer deems necessary or appropriate. The Engineer has the right to review the project stakeout prior to staking. The Contractor shall arrange work to allow forty-eight (48) hours advance notice for the Engineer to review the lines and grades of those stakes set for the next step of the Contractor’s work. The Engineer shall have the right to make reasonable changes in the grades as shown on the drawings. The Engineer will be available for consultation and interpretations for staking operations.

The Contractor shall call to the Engineer’s attention any reference lines, points, or bench marks, which may have been disturbed or appear off line or grade.

A licensed Wyoming Professional Land Surveyor shall directly supervise all construction surveys. The costs for providing all construction surveying and staking shall be considered included in the cost of contract items.

4.02 Land Provided by the City. The City or Engineer will obtain all easements and franchises required for the work. The Contractor shall limit operations to the area obtained and shall not trespass on private property. The City may provide access to certain lands, as indicated in connection with the work under the contract. The Contractor shall not conduct any activity on any land which may result in the imposition of any lien or encumbrance. The Contractor shall use said land in accordance with conditions established by the City.

4.03 Land Provided by the Contractor. If the Contractor requires additional area required for temporary construction facilities or storage of materials, the Contractor shall obtain written consent and agreement from the landowner on whose land the Contractor seeks to expand the Contractor’s operation. The Contractor must provide a copy of this agreement to the Engineer, who may grant or deny permission to expand to additional land. The agreement, if accepted by the Engineer, must describe the activity for which the land will be used and how the Contractor will restore the land.

The Contractor shall construct all access roads, detour roads, or other temporary works, as required by the operations. The Contractor shall confine its equipment, materials storage, and worker operations to those areas shown and described, and such additional areas as the Contractor may provide. The Contractor shall provide such land, and access thereto, without liability to the City.

Prior to final payment, the Contractor shall furnish the Engineer with a written statement of clearance from the landowner for those properties on which work, equipment, or material staging took place.
4.04 **Protection and Restoration of Property, Markers, and Landscape.**

**General:** All construction work under this contract on rights-of-way, easements, or franchise, shall be confined to the limits of such rights-of-way, easements, or franchise. The Contractor shall accomplish all work so as to cause the least amount of disturbance and a minimum amount of damage. The Contractor shall take all necessary precautions to preserve and protect adjacent roadways, public and private properties and improvements, and underground facilities during work on the project. The Contractor shall take responsibility for any damage or injury resulting from:

1. Any act, omission, negligence, or misconduct in the execution of the work;
2. Defective work or materials; and
3. The work of a Subcontractor.

Except for damage due to unforeseeable causes beyond the control of, and without fault of negligence of the Contractor, the Contractor shall rebuild, repair, restore, and make good damages to any portion of the project or real property injured in the course of the work, from any cause before final acceptance, and without additional cost to the City.

The Contractor shall coordinate such repairs, replacements, or both, of real property with the affected property owner, and obtain the property owner’s written approval when the final work is complete. A copy of the property owner’s approval shall be submitted to the City. If the Contractor fails to perform such restoration within a reasonable time, the City may do so and deduct the cost from monies due the Contractor or bill the Contractor, as appropriate.

The Contractor’s responsibility for the work lasts until final written acceptance of the project by the City, in accordance with General Conditions regarding Completion and Warranty.

**Site security:** The Contractor shall provide site security in accordance with Special Provisions Section 01231, SAFETY. Suspension of work does not relieve the Contractor of responsibility for the project, except in accordance with General Conditions provisions on Suspension of Work.

**Vehicle Damage Claims:** If a vehicle owner makes a vehicle damage claim, the Contractor shall send a written response to the claimant addressing the claim and the actions the Contractor has taken or intends to take. The Contractor shall send a copy of the response letter to the following address:

City of Cheyenne Risk Management
Attn: Risk Manager
2101 O’Neil Ave
Cheyenne, WY 82001
**Trenches:** The Contractor shall not leave trenches open across travel ways for more than twenty-four (24) hours or over weekends or holidays. Trenches that present a danger to vehicular or pedestrian traffic shall be backfilled or barricaded at the end of each day's work.

**Structures:** The Contractor shall remove such existing structures as may be necessary for the performance of the work and, if required, shall rebuild the structures thus removed in as good a condition as found with minimum requirements as herein specified. The Contractor shall also repair all existing structures damaged as a result of the work under this contract.

**Cultivated Areas and Other Surface Improvements:** All cultivated areas, either agricultural or lawns, and other surface improvements damaged by Contractor’s actions shall be restored as nearly as possible to their original condition and in accordance with Standard Specification, Section 02900, Landscaping. Prior to excavation on an easement or private right-of-way, the Contractor shall strip topsoil from the trench or construction area and stockpile it in such a manner that it may be replaced by the Contractor upon completion of construction. Ornamental trees and shrubbery shall be carefully removed, with the earth surrounding their roots, wrapped in burlap and replanted in their original positions within twenty-four (24) hours. The Contractor shall replace all shrubbery or trees destroyed or damaged with material of equal quality at no additional cost to the City or property owner.

In the event that it is necessary to trench through any lawn areas, the sod shall be carefully cut, rolled, and replaced after the trenches are backfilled. The Contractor shall then clean the lawn area of debris by raking or other means. All fences, markers, mail boxes, or other temporary structures shall be removed by the Contractor and immediately replaced after the trench has been backfilled, in their original positions. The Contractor shall notify the Engineer and property owner at least twenty-four (24) hours in advance of any work done on easements or private rights-of-way.

**Streets:** The Contractor shall assume all responsibility for restoration of the surface of all streets (travel ways) used by the Contractor and damaged.

**4.05 Cooperation by the Contractor.** Contact and Emergency Response: The Contractor shall maintain a telephone for the duration of the contract, at the Contractor’s own expense, where the Contractor or the Contractor’s authorized representative may be reached directly or by message at all times, including weekends and holidays. The Contractor shall cooperate with the Engineer and inspectors at all times and shall respond to requests for emergency repairs to the contract work no later than two (2) hours of the request.

If the Contractor does not respond to requests for emergency repairs within the time allotted, the City reserves the right to enter the work area and conduct repairs with
City forces or City-hired forces. The Contractor will be responsible for all costs incurred by the City in responding to the emergency repairs and will also be responsible for restoring all work back to the required contract conditions. The City will not be responsible for any damages to the Contractor’s work or equipment that results from the City responding to the emergency repair.

Superintendence: When work is underway, including work by a Subcontractor, the Contractor shall ensure the presence of a competent project superintendent, who is an employee of the Contractor, at the worksite at all times, unless otherwise agreed to by the City. The project superintendent shall have the ability to communicate clearly; to read, interpret, and implement the relevant contract documents; have experience in the work included in the project; have authority to represent and act for the Contractor, including authority to execute the Engineer’s directions; and authority to obtain and provide sufficient materials, equipment, tools, labor, and incidentals to complete the project as specified.

4.06 Cooperation between Contractors. The City may contract with separate Contractors for additional work on or near the worksite. When separate contracts are let, the City requires each Contractor to cooperate with and work without hindering each other.

Each Contractor assumes liability, financial or otherwise, for its own errors, acts, or omissions and holds the City harmless, in accordance with the General Conditions of the Contract, from damages or disputes arising from inconvenience, delay, or loss due to the presence and operations of other persons, contractors or public entities on or near the worksite.

4.07 Maintenance during Construction. The following shall be added to Standard Specification Section 01054.1.09:

The Contractor is responsible for snow removal within all barricaded areas of the project. The Contractor will be responsible for snow removal within the travel way of the project area unless a minimum of a 16’ lane is provided for the City plows.

5.00 CONTROL OF MATERIAL

5.01 Inspection and Testing for Quality Control. Requirements: All materials and work shall be tested and inspected in accordance with the specifications. The Contractor shall provide testing and inspection services to verify compliance with requirements specified or indicated. The Contractor shall be responsible for scheduling inspections and tests and notifying the laboratory.

The Contractor shall provide advance notification to the Engineer of any testing or sampling to be conducted. The Engineer may provide Quality Assurance testing to prevent against defects and deficiencies in the Contractor’s work by verifying that
the Contractor’s Quality Control testing is accurate and adequate. However, furnishing such Quality Assurance testing shall not relieve the Contractor of responsibility for providing Quality Control testing or responsibility for the Contractor’s failure to perform the work in accordance with the contract documents.

**Laboratory Requirements:** The Contractor shall retain the services of an Independent AASHTO-accredited testing laboratory to inspect, sample and test the related work. The testing laboratory shall cooperate with the Engineer and the Contractor in performing its duties and shall provide qualified and/or certified personnel to perform inspections and tests.

Tests shall be performed in accordance with the most recent cited standard methods of AASHTO or ASTM, approved AASHTO Interim Specifications, or ASTM Tentative Specifications in effect on the advertised date of the public bid opening or more stringent Quality Control requirements where specified in the Special Provisions.

The testing laboratory shall promptly notify the Engineer and the Contractor of deficiencies in the work observed during the performance of its duties. The testing laboratory shall not approve or accept any portion of the work nor shall it perform any duties of the Contractor.

**Submittals:** The testing laboratory shall submit a certified written report of each inspection and test to the Engineer, Contractor, and any other entities designated by the City. Copies of all test results shall be provided to the City within twenty-four (24) hours of the availability of the test results with written report to follow within seven (7) Working Days. Reports of each inspection, test, or similar service shall include the following:

1. Name, address, and telephone number of testing laboratory.
2. Project title and project number.
3. Date of report and designation (number).
4. Dates of testing and maps with sufficient detail to accurately identify locations where samples were taken or inspections and field tests made.
5. Ambient conditions at the time of sample taking and inspecting, or field testing.
6. Names of individuals taking the sample or making the inspection or test.
7. Product and test method.
8. Inspection or test data including interpretation of test results and comments or professional opinion on whether inspected or tested work complies with requirements.
9. Recommendations on retesting or re-inspections.
10. Name and signature of laboratory inspector.

**5.02 Unacceptable Materials.** The Contractor shall not undertake any work in which untested or non-conforming materials are used without prior, written, express approval from the Engineer. Any such work undertaken using untested or non-
conforming materials without the prior, written, express approval of the Engineer may be considered in material breach of this contract and, if directed by the City, shall be removed at no additional cost to the City.

5.03 **Storage of Materials.** Materials shall be stored, in accordance with manufacturer’s recommendations, and handled in a manner that facilitates inspections and preserves the materials’ quality and suitability for use. Material shall be transported in vehicles built to prevent loss, contamination, or segregation after loading and measuring. The Engineer may re-inspect stored, previously inspected materials before approving their use in the work.

As approved by the City, that portion of the right-of-way within the project limits not required for public travel may be used for storage purposes and for placing of the Contractor’s plant and equipment. Material stored on or adjacent to public streets shall not create a safety hazard, obstruct, or inconvenience the traveling public. Any additional space required must be provided by the Contractor at the Contractor’s expense. Private or public property shall not be used for storage purposes without written permission of the owner or lessee. All storage sites shall be restored to their original condition by the Contractor at the Contractor’s sole expense. Construction materials may not be stored in streets, roads, or highways for more than five (5) days after unloading. All materials or equipment not installed or used in the construction within five (5) days after unloading shall be stored elsewhere by the Contractor at the Contractor’s expense, unless the Engineer authorizes additional storage time.

Excavated material, except that which is to be used as backfill in the adjacent trench, may not be stored in public streets, roads, or highways unless the Engineer authorizes such storage. Erosion control shall be provided around all excavated or backfill material. After placing backfill, all excess material shall be removed immediately from the site.

5.04 **City-Furnished Material.** If specified in the Special Provisions, the City will provide material for incorporation into the project. Materials furnished by the City will be delivered, or made available to the Contractor, at the locations specified in the Special Provisions.

The cost of handling and placing all materials supplied by the City shall be considered as included in the contract price for the item in connection with which they are used.

The Contractor shall be held responsible for all material delivered to him, and deductions shall be made from any money due to make good any shortages or deficiencies, from any cause whatsoever and for any damage which may occur after such delivery and for any demurrage charges.

5.05 **Rights In and Use of Material Found in the Work.** The City may authorize the
use of aggregate or other material found in excavation for use in another pay item. The City will pay the established contract unit price for excavation of such material and for the pay item for which it was used. If the excavated material is used for another pay item but was otherwise needed for embankments, backfills, approaches, or other purposes, the Contractor shall provide an acceptable replacement at no additional cost to the City.

The Contractor shall not excavate or take material outside the slope stake limits without the City’s prior written approval. The right to use and process material found within the project limits excludes use and processing for noncontract work. If the Contractor produces or processes more material from the project than is required for the contract, without additional compensation to the Contractor, the City may take possession of the excess material and direct its use; or require removal of the material and restoration of the land to a satisfactory condition.

5.06 **Removal and Salvage of Materials.** Any equipment, hardware, structures, inlet grates, valve boxes, manhole rings, covers and lids, traffic control standards, signs and posts, fence and any other miscellaneous items designated for removal from the site and salvage to the City shall be removed from the site and taken to a location designated by the City. All such materials shall be the property of the City unless otherwise specified. Diligent care shall be taken during the removal of all materials to prevent damage.

Manhole covers and manhole rings designated for salvage shall be both plainly marked with a durable, exterior paint for easy identification as individual pairs.

5.07 **Material Spoil Area/Waste Site.** The Contractor shall notify the Engineer at the preconstruction conference as to the location selected to dispose of the excess, waste and unsuitable materials and a map indicating the haul route for the removal from the project.

Lost and spilled materials onto the route taken by the Contractor shall be promptly removed. The route shall be maintained as deemed necessary by the Engineer by the use of water trucks, motor grader, hand labor and related equipment to alleviate the problem of lost spills, tracked mud, and dust control. Prompt restoration of the route is required.

No extra compensation shall be allowed for the disposal of the waste and surplus material; including but not exclusively; dump fees, extra haul distances and time, changed haul routes, and haul road maintenance.

5.08 **Load Restrictions.** The Contractor shall be responsible for all damage to the work caused by the Contractor’s hauling equipment. The Contractor shall comply with legal load restrictions when moving equipment or hauling materials on public roads that remains in service. A permit to operate an overweight, oversized, or over-width vehicle does not relieve the Contractor of liability for damage to public roads due
to the moving of equipment or materials.

The Contractor shall not allow loads on concrete pavement, base, or structures before the strength or time requirements for the concrete have been met. In case of pipes, the Contractor shall not allow loads before placing the specified cover fill.

6.00 RESPONSIBILITY FOR UTILITY PROCEDURES AND SERVICES

6.01 Location. Where underground main distribution conduits such as water, gas, sewer, electric power, telephone or cable are shown on the plans, the Contractor, for the purpose of preparing the Contractor’s bid, shall assume that every property parcel is served by a service connection for each type of utility. Failure by the Engineer to show the location of any utility on the plans shall not relieve the Contractor from the responsibilities below.

Before proceeding with the work, the Contractor shall confirm the final grade and locations of such facilities in accordance with the “Wyoming Underground Facilities Notification Act” and the “Wyoming High Voltage Power Lines and Safety Restrictions Act.”

The Contractor shall notify utility and pipeline companies of the proposed construction schedule at least two (2) Working Days before the start of work. The Contractor shall ask for the nature, location, and depth of pipes and cables and areas where they may conflict with the work. If a company cannot or will not provide this information, the Contractor shall obtain it by alternate means. Where conflicts may exist, the Contractor shall locate the relevant pipes or cables in three dimensions.

The Contractor shall not begin excavation until all such features have been located, their owners notified, and the Engineer has approved. The Contractor shall not interrupt the service function or disturb the supporting base of any utility without authority from the utility owner or an order from the City. Where protection is required to ensure support of utilities, the Contractor shall, unless otherwise provided, furnish and place the necessary protection at no cost to the City.

6.02 Utility Line Conflicts and Damage. If utility lines are determined to be in conflict with or are damaged during the work, the Contractor shall stop work in the immediate area, notify the Engineer and the utility owner, and cooperate with the owner to move or repair the utility. The Contractor shall be solely responsible for any damage done to such utilities due to failure to preserve original locate marks or to properly protect the utilities when their location is known.
**7.00 WORK SCHEDULE AND CONDITIONS**

**7.01 Pre-Construction Conference.** The Contractor will schedule and convene, at a mutually convenient time before the start of work, a Preconstruction Conference with, all Subcontractors, Design Engineer and/or City’s Representative, Board of Public Utilities, Power Company, Telephone Company, Gas Company, Cable Television, and other interested parties. Before or at the meeting, the Contractor shall provide the following, if applicable:

1. A letter providing the names, phone numbers and addresses, of material suppliers and Subcontractors;
2. Project Schedule in accordance with the item **7.05 Schedule** below;
3. Spill contingency and storm water pollution prevention plans in accordance with Standard Specification Section 01563 Erosion Control and Storm Water Management;
4. A traffic control plan in accordance with Section 01050 Traffic Control;
5. A list with names and phone numbers of key personnel, including the project superintendent and subordinates, authorized to sign contract documents and project records;
6. A list of phone numbers for the Contractor’s personnel the Engineer should call in case of emergency in accordance with item **4.05 Cooperation by the Contractor** above; and
7. Other items the Engineer may request.

**7.02 Weekly Conference.** Subsequently a representative of the Contractor and the Contractor’s Subcontractors (if requested) shall attend a weekly conference at a mutually convenient time and at a place designated by the City to review progress and discuss any problems that may arise or have incurred.

**7.03 Work Progress.** The Contractor shall make every effort to complete work in a manner and fashion that minimizes roadway closures and inconveniences to the traveling public and adjacent property owners. Progress will be continuously prosecuted on all roadways and drive approaches that have been closed for construction in accordance with Section 01041.1.01.I. of the Standard Specifications.

The Contractor shall not open up work to the prejudice or detriment of work already started. The City may require the Contractor to finish a section on which the work is in progress before work is started on any additional sections if the opening of such section is essential to public convenience.

**7.04 Working Days and Time.** Normal working hours shall be 7:00 am to 6:00 pm. No work shall be allowed on Saturdays without the City’s prior written permission. For the purposes of time limitations specified in these instructions, a Saturday shall count as a “Working Day” if the City has approved work on that Saturday. No work, except for City-approved emergency repairs, shall be allowed on Sundays or
Holidays. For the purposes of the time limitations in these instructions, neither a Sunday nor a Holiday will count as a “Working Day” even if the City has authorized emergency repairs to be performed on that Sunday or Holiday. If the Contractor desires to perform work beyond the City’s normal working hours, the Contractor must obtain the City's written approval forty-eight (48) hours in advance of scheduled work. In an emergency situation, verbal approval will suffice until the next working day at which time written approval shall be obtained before further inspection work beyond normal working hours will be provided.

Holidays. Normal City holidays are as follows:

<table>
<thead>
<tr>
<th>HOLIDAY</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Year’s Day</td>
<td>January 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>Martin Year’s Day</td>
<td>Third Monday in January</td>
</tr>
<tr>
<td>President’s Day</td>
<td>Third Monday in February</td>
</tr>
<tr>
<td>Memorial Day</td>
<td>Last Monday of May</td>
</tr>
<tr>
<td>Independence Day</td>
<td>July 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Labor Day</td>
<td>First Monday in September</td>
</tr>
<tr>
<td>Veteran’s Day</td>
<td>November 11&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Thanksgiving Day</td>
<td>Fourth Thursday in November</td>
</tr>
<tr>
<td>Day after Thanksgiving</td>
<td>Day after Thanksgiving</td>
</tr>
<tr>
<td>Christmas Day</td>
<td>December 25&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

With the Engineer’s prior written approval, no work shall be permitted the day before, during, and the day after said holidays. The Engineer may require the Contractor to cease construction operations at any other time if the Contractor’s operations are of such nature, the project is so located, or the traffic is of such volume that the Engineer deems it expedient to do so.

Frontier Days. During Cheyenne Frontier Days (CFD), typically the last full week in July, and the week immediately preceding, special rules shall apply in the following designated areas:

1. All roadways contained in the area bounded by 15th St. on the south, Snyder Ave. on the west, Pershing Blvd. on the north, and Van Lennen Ave. on the east, including the roadways making up the boundaries.

2. All roadways contained in the area bounded by Pershing Blvd. on the south, Interstate 25 on the west, the extensions of Manewal Dr. on the north, and Warren Ave./Yellowstone Rd. on the east, including the roadways making up the boundaries.

3. All roadways designated on the functional classification map as “Principal Arterial” or “Minor Arterial”.

City of Cheyenne / Bid S-16-20 / Repair and Expansion of Landfill Permanent Litter Fence / Page 104 of 113
4. All roadways located north of the Union Pacific Railroad tracks designated on the functional classification map as “Major Collector” or “Minor Collector”.

Functional classification maps are available from the Engineer’s Office or the Cheyenne Metropolitan Planning Organization’s website at www.plancheyenne.org.

During the week immediately preceding CFD, the special rules are as follows:

1. Work in the designated areas shall be in a state whereby all facilities are available to the public no later than 5 pm Wednesday of the week immediately preceding CFD;

2. After Wednesday of the week immediately preceding CFD, the only work allowed in designated areas are emergency repairs and operations having a duration of less than one (1) hour (including moving operations, such as striping or street sweeping).

3. All equipment, materials, traffic control devices, and other construction items shall be removed from the designated areas prior to 5 pm Wednesday of the week immediately preceding CFD.

4. All roadways and pedestrian ways shall be in such a condition that there shall be no interference with parades or other CFD event operations.

During CFD:

1. No work will be allowed in the designated areas with the exception of City-approved emergency repairs and moving operations, such as striping or street sweeping.

2. All moving operations must be approved in writing, in advance by the Engineer.

3. Work and traffic control operations can recommence during normal working hours on the Monday morning following the end of CFD.

Exceptions to the above will be made at the Engineer’s sole discretion.

7.05 Schedule. The Contractor shall submit a project schedule to the Engineer for review and discussion at the Pre-Construction meeting. This schedule shall be sufficiently detailed to show the following:

1. The activities needed to perform and complete the work, activities that might delay contract completion, and critical activities such as street closures or major traffic restrictions.
2. Sequence of each activity required to complete the project within the contract time allotted and in the manner specified. Interrelationships among activities shall be shown without lead or lag time.

3. The planned start and completion dates for each activity, the duration of each activity with activities of more than fifteen (15) Working Days in duration broken into two or more activities distinguished by location or some other feature.

4. Interim, milestone, and project completion dates specified in the contract.

5. An indication of how the schedule accommodates adverse weather days for each month.

6. Dates related to the procurement of materials, equipment, articles of special manufacture, etc.

7. Dates related to the submission of working drawings, plans, and other data specified for review or approval by the Engineer.

8. Dates related to required special inspections of structural steel fabrications and other specified activities by the City or third parties.

The Contractor shall submit monthly updates to the Project Schedule at the time of the submittal of the monthly Pay Estimate. The schedule update shall include any revised planned start and finish dates for each activity shown on the most recent accepted schedule. For newly started or finished activities, the Contractor shall include the actual start or finish date. For activities previously started and still ongoing, the Contractor shall show the remaining duration and planned finish dates. The City may withhold processing the monthly Pay Estimate until the Contractor submits the monthly update to the Project Schedule.

The Engineer may request a schedule revision at any time for any reason. Circumstances leading to such a request include, but are not limited to, the following:

1. A delay (actual or projected) of partial or contract completion dates by fourteen (14) calendar days or more;

2. A difference between the actual rate of progress and that depicted in the schedule; and

3. Issuance of a contract modification that, by adding, deleting, or revising activities, changes the planned sequence of work or the method and manner of its performance.
7.06 Requirements for Workers, Methods, and Equipment. The Contractor shall at all times provide enough qualified labor and enough capable equipment to complete the project in accordance with the contract.

The Contractor shall provide workers that are sufficiently skilled to perform the work assigned to them. In writing, the City may direct removal from the project of any person, regardless of employer, who is unsafe, incompetent, intemperate, disorderly, or insubordinate. Through written notice, the City may suspend the work for failure of the Contractor to comply with such a directive or for failure to provide enough qualified workers.

All equipment proposed to be used on the work shall be of sufficient size and in such mechanical condition as to meet requirements of the work and to produce a satisfactory quality of work. Equipment used on any portion of the project shall be such that no injury to the roadway, adjacent property, or other improvement will result from its use.

When the methods and equipment to be used by the Contractor in accomplishing the construction are not prescribed in the contract, the Contractor is free to use any methods or equipment that the Contractor demonstrates to the satisfaction of the Engineer will accomplish the contract work in conformity with the requirements of the contract. When the contract specifies that the construction be performed by the use of certain methods and equipment, such methods and equipment shall be used unless others are authorized by the Engineer.

If the Contractor desires to use methods or types of equipment other than those specified in the contract, the Contractor may request authority from the Engineer to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed to be used and an explanation of the reasons for desiring to make the change. Approval does not relieve the Contractor from the requirement to produce work in accordance with the contract documents. The use of alternative methods or equipment resulting in work that fails to meet contract requirements may lead the Engineer to, in writing:

1. Direct a stop in their use;
2. Order the completion of remaining work using the original specified methods or equipment; or
3. Require the removal, at no additional cost to the City, of the unsatisfactory work and its replacement using the original specified methods and equipment.

7.07 Suspension of Work. The City shall have the authority to suspend the work wholly or in part, for such period as may be deemed necessary due to unsuitable weather, due to such other conditions as are considered unfavorable for the suitable prosecution of the work, for failure of the Contractor to correct unsafe conditions,
for failure of the Contractor to carry out orders given, or for failure of the Contractor to perform any provision of the contract.

If the City suspends the work for more than ninety (90) days, through no fault of the Contractor, the Contractor may apply, in writing, for a price adjustment to compensate for reasonable expenses caused by the suspension. Any application for price adjustment or contract time extension will be submitted to the governing body of the City for its consideration in the form of a Contract Modification. It will be the responsibility of the Contractor to provide sufficient documentation to substantiate any claim.

The City will not grant or consider contract modifications based upon City-ordered suspension:

1. Without timely written notice from the Contractor;

2. To the extent that the suspension is overlapped or falls within a suspension or delay due to any other cause, including delays caused by the Contractor; or

3. That includes profit.

The Contractor may ask the City to suspend the project in writing due to unsuitable weather or due to such other conditions as are considered unfavorable for the suitable prosecution of the work. The Contractor shall not suspend operations or remove necessary equipment or materials without approval from the City.

During delays or suspensions, if the traveling surface is a leveling course or non-paved surface, the Contractor shall maintain the roadway for traffic use (including snow removal and placing of sand) and the quality of the surface course until the placement of additional course or temporary surfacing, at no additional cost to the City. If placement of concrete pavement or a full lift of plant mix pavement is not completed before delays or suspension of work, the Contractor shall provide, place, and maintain the temporary plant mix pavement and then remove it at the end of the suspension.

During suspensions, the Contractor shall store materials and equipment, at no additional cost to the City as far from the travel way as possible; at a location that will not cause maintenance or safety problems for the roadway; and at a location where they will be protected from damage. The Contractor shall maintain all living material in new plantings, seeding, and sods in an acceptable growing condition and protect from injury, at no additional cost to the City.

During suspensions, the Contractor shall provide roadway drainage, temporary structures needed for public travel throughout the project, any required temporary traffic control, along with removal of such temporary structures, traffic control, and surfacing, at the end of the suspension at no additional cost to the City. Before
suspension, the Contractor shall protect slopes without vegetation in accordance with Section 01563 Erosion Control and Storm Water Management.

If during a suspension the Contractor fails to accommodate traffic or maintain the project, including temporary traffic control devices, the Engineer may direct other organizations to do so. The City shall deduct the cost from monies due the Contractor or bill the Contractor, as appropriate.

During suspensions, the Contractor shall complete necessary measures to protect the work and the roadway during the suspension. The Contractor shall repair or replace materials lost or damaged during the suspension at no additional cost to the City.

The Contractor shall resume work when conditions are favorable or when approved by the Engineer.

7.08 Extension of Contract Completion Date. The contract time for completion shall be fixed by the City and stated in the Contract Agreement, either as a calendar date or as a specified number of calendar days.

The Contractor shall perform the work in an acceptable manner within the time stated in the contract except that the contract time for completion may be adjusted as follows:

1. If the satisfactory completion of the contract shall require performance of work in greater quantities than those set forth in the proposal, the time allowed for performance shall be increased in the same ratio as the final estimate bears to the original contract amount, except that the final monetary amount of any contract modification for which an extension of contract time was previously allowed shall be deducted from the final estimate prior to making the pro-rata time adjustment.

2. If delays beyond the Contractor’s control are caused solely by action or inaction by the City, or are for unforeseen causes beyond the control and without fault or negligence of the Contractor, such delays will entitle the Contractor to an extension of time which will be based upon the effect of delays to the project as a whole and will not be granted for non-controlling delays to minor included portions of work, unless it can be shown that such delays did, in fact, delay the progress of the project as a whole. Written request for such extension of time must be made by the Contractor within ten (10) calendar days after the beginning of such delay.

No allowance shall be made for delay or suspension of the work due to fault of the Contractor. Nor will the City grant an extension based on pleas that the contract specified insufficient time for completion of the project.

7.09 Concurrent Delays. Concurrent delays are delays occurring at the same time to separate critical activities. When concurrent delays occur, the City will use only the
longer delay, and/or the excusable delay, to determine extensions to the contract completion date. Non-excusable delays will not be considered for extensions.

7.10 **Weather Days.** The Adverse Weather Table shows the number of working days included in the contract time in anticipation of weather that may preclude work. If the Contractor believes that it is entitled to additional time for adverse weather, the Contractor must submit written documentation to the Engineer and City within five (5) working days of the end of month that adverse weather was experienced. The Engineer may extend the completion date if the actual number of adverse weather days exceeds the expected number and the Contractor has pursued the work diligently during the month. The determination as to whether a day is to be considered an adverse weather day shall be at the discretion of the Engineer for when work on critical path items cannot be accomplished. The Engineer shall not count or treat Sundays or holidays as adverse weather days. Any weather days not used during any month are invalid and cannot be considered cumulative. For partial months, the Engineer shall prorate the number of expected lost workdays due to adverse weather.

**ADVERSE WEATHER TABLE**

<table>
<thead>
<tr>
<th>MONTH</th>
<th>DAYS</th>
<th>MONTH</th>
<th>DAYS</th>
<th>MONTH</th>
<th>DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>8</td>
<td>May</td>
<td>4</td>
<td>September</td>
<td>2</td>
</tr>
<tr>
<td>February</td>
<td>8</td>
<td>June</td>
<td>3</td>
<td>October</td>
<td>4</td>
</tr>
<tr>
<td>March</td>
<td>7</td>
<td>July</td>
<td>2</td>
<td>November</td>
<td>5</td>
</tr>
<tr>
<td>April</td>
<td>6</td>
<td>August</td>
<td>2</td>
<td>December</td>
<td>7</td>
</tr>
</tbody>
</table>

8.00 **MEASUREMENT AND PAYMENT**

8.01 **Measurement of Quantities.** The Engineer shall measure pay items in the units of measure specified in the contract using methods of measurement and computation that meet generally recognized good engineering practice. The Engineer shall measure pay items when in place and complete. The actual work performed shall be measured, excluding work outside the construction limits unless adjusted by the City. The Engineer shall measure pay item quantities using the following methods, unless otherwise provided elsewhere in the contract documents:

1. **Area.** Computed from linear distances measured horizontally. Individual fixtures occupying areas equal to or less than 9 sq. ft. shall not be deducted from the computation.

2. **Linear.** Items measured by the foot shall be measured parallel to the surface on which the items are installed.

3. **Lump Sum.** Although actual quantities of the components in a lump sum pay item used in the work may differ from the estimated quantities specified, the City will not change the amount of payment.
4. Volumes of Excavation, Embankment, and Similar Pay Items. The average end area method shall be used unless otherwise specified or agreed to.

5. Asphalt Materials. Measured by the gallon or short ton, subject to correction for foaming, shipping loss, or other reasons for nonuse.

6. Delivery Tickets. All delivery tickets that are required for the purpose of calculating quantities for payment must be received by the Engineer at the time of delivery. Payment shall not be made for delivery tickets which do not show type of material, gross weight, tare weight, truck number, and date. Delivery tickets shall utilize automatic printer systems. Scale certification shall be submitted before their use. In no case shall materials weighed on non-certified scales be accepted for payment.

8.02 Compensation for Altered Quantities. Unless otherwise provided, payments to the Contractor shall be made for the actual quantities of contract items performed in accordance with the plans and specifications, and if, upon completion of the construction, these actual quantities show either an increase or decrease from quantities given in the bid schedule, the contract unit prices shall still prevail. Except as provided otherwise, the City shall not allow for increased expense, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor from any cause, including directly from alterations or indirectly from unbalanced allocation by the bidder of overhead expense among the pay items.

8.03 Monthly Progress Payment. The City shall make payments at least once each month in accordance with Article 4. Compensation and Method of Payment of the Contract Agreement as work progresses. The Contractor shall supply supporting billing documentation, including as a minimum, a spreadsheet (form to be approved by the Engineer) which lists each item of work included in the Bid Proposal form and shows quantities and amounts currently being invoiced and previously invoiced. Payments shall be based on the Engineer’s approval of the estimate of the value of work performed and materials complete-in-place, in accordance with the contract, and for materials delivered, in accordance with item 8.04 Payment for Material on Hand below.

8.04 Payment for Material on Hand. The City may pay for materials stockpiled or stored for later use on the project and for which the Contractor provides acceptable documentation indicating the materials meet contract requirements. Stockpiled or stored materials may be located on the project or at facilities approved by the City, which the City reserves the right to inspect. Materials shall be stored in accordance with manufacturer’s recommendations. The City shall not make such payment without a written request received at least ten (10) calendar days before the date of the next scheduled progress payment, and in no case will it pay more than fifty (50) percent of the item’s original bid extension. The Contractor shall include with the written request documentation, such as copies of invoices, freight bills, or other information required by the Engineer, that supports material and shipping costs.
9.00 MOBILIZATION

Payment shall be made for mobilization to cover the costs of preparatory work and operations including but not limited to those necessary for the movement of personnel, equipment, supplies and incidentals to the project site; for the establishment of all field offices, storage buildings, and other facilities necessary for the work on the project, and for all other work and operations which must be performed, or costs incurred, prior to beginning work on the various items on the project.

Mobilization shall be measured on a lump sum basis and payment shall be made with the monthly estimate based on the percentage of the original contract amount earned in accordance with the following:

1. On the first estimate following award, 10 percent of the Mobilization pay item or 1 percent of the original contract amount, whichever is less will be paid.

2. When 5 percent of the original contract amount is earned, 25 percent of the amount bid for Mobilization or 2 percent of the original contract amount, whichever is less will be paid.

3. When 10 percent of the original contract amount is earned, 50 percent of the amount bid for Mobilization or 5 percent of the original contract amount, whichever is less will be paid.

4. When 25 percent of the original contract amount is earned, 60 percent of the amount bid for Mobilization or 6 percent of the original contract amount, whichever is less will be paid.

5. When 50 percent of the original contract amount is earned, 70 percent of the amount bid for Mobilization or 7 percent of the original contract amount, whichever is less will be paid.

6. When 70 percent of the original contract amount is earned, 100 percent of the amount bid for Mobilization or 10 percent of the original contract amount, whichever is less will be paid.

7. Upon completion of all work on the project, payment on any amount bid for Mobilization in excess of 10 percent of the original contract amount will be paid.

The total sum of all payments will not exceed the original contract amount bid for Mobilization, regardless of the fact that the contractor may have shut down work on the project or moved equipment away from the project and then back again.

Mobilization is subject to the retainage that shall be withheld for final payment.
The payment schedule for mobilization shall be utilized for construction staking, contractor materials testing, and similar items, when the method of measurement and basis of payment is not otherwise specified in the contract documents.