



**2010 – MH REHAB – 1
SANITARY SEWER MANHOLE REHABILITATION PROJECT**

**ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
GRAND ISLAND, NEBRASKA**

JUNE 2010

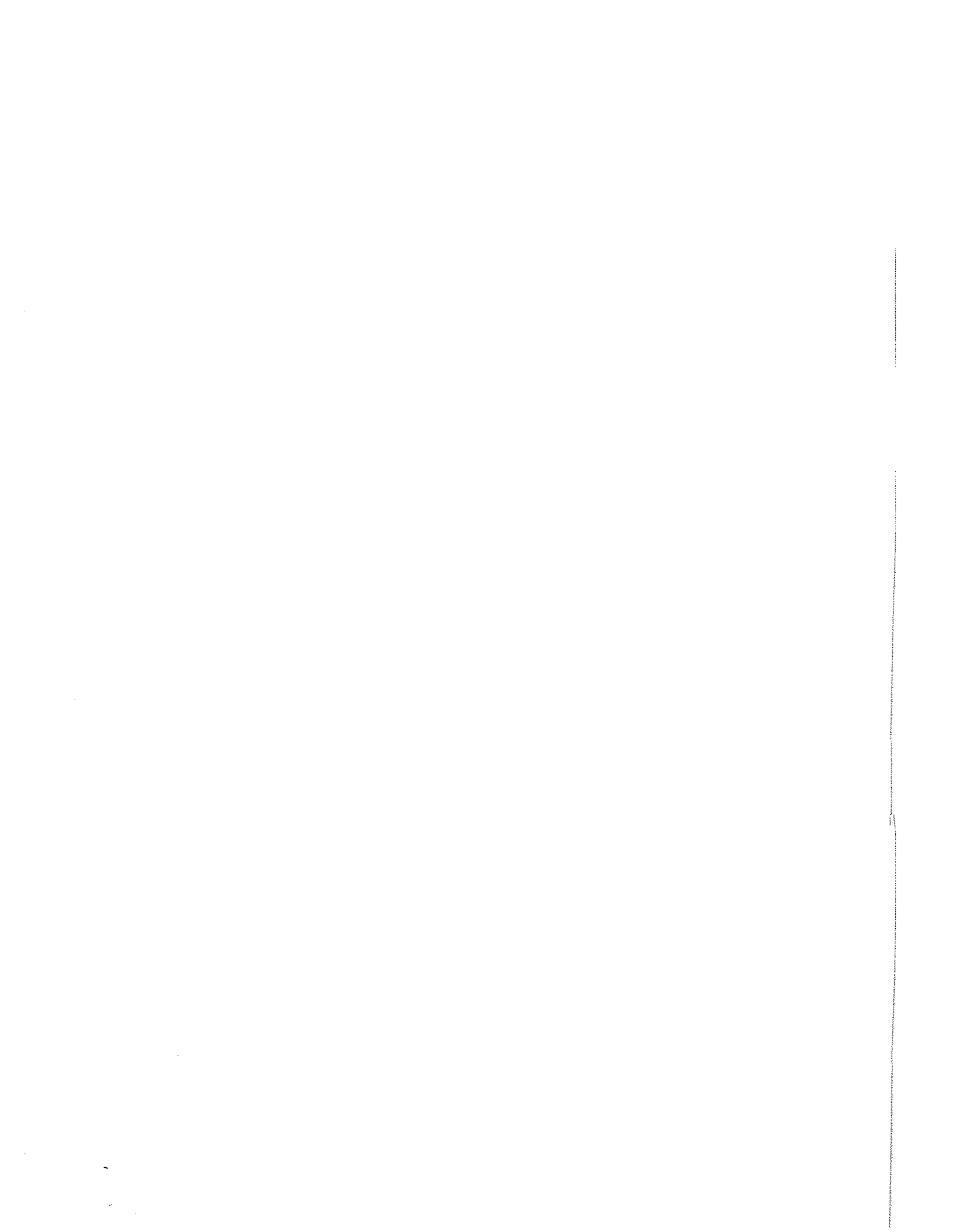


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Sanitary sewer Manhole Rehabilitation Project

City of Grand Island, Nebraska

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Bidder Checklist

For

2010-MH REHAB-1
Sanitary Sewer Manhole Rehabilitation Project
City of Grand Island, Nebraska

Bids must be received by 2:00p.m.on Wednesday, July 14, 2010.

The following items must be completed for your bid to be considered:

___ A completed bidder checklist form.

___ A signed original and two copies of the bidding documents.

___ Acknowledgement of Addenda Number(s) _____.

___ Firm unit pricing; or lump sum pricing as applicable.

___ A certified check, cashier's check or bid bond in a separate envelope attached to the outside of the envelope containing the bid. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened.

___ Attendance at the pre-bid meeting is required to be a qualified bidder on this project.

___ One copy of the manufacturer's published literature for the proposed manhole rehabilitation system. The name of the manufacturer is _____.

___ One copy of the manufacturer's published specification/data sheet for patching material. The name of the manufacturer and product name is _____
_____.

___ One copy of the manufacturer's published specification/data sheet for elimination of leaks. The name of the manufacturer and product name is _____
_____.

___ One copy of the manufacturer's published specification/data sheet for prevention of the colonization and growth of acid-producing bacteria on concrete surfaces. The name of the manufacturer and product name is _____
_____.

___ One copy of the manufacturer's published specification/data sheet for cementitious lining. The name of the manufacturer and product name is _____

___ One copy of the manufacturer's published specification/data sheet for epoxy lining. The name of the manufacturer and product name is _____

___ Manufacturer's certification that the proposed rehabilitation system meets the requirements of the specifications.

___ Manufacturer's documentation of product experience including owner contact information.

___ Documentation certifying contractor has received manufacturer's training for the proposed rehabilitation system and products.

___ A reference list of projects (sanitary sewer and other work) the contractor has completed within the past two years including contact information. At least two of these projects shall include a manhole lining system.

Bidder Company Name: _____ Date _____

Print - Name of Person Completing Bid _____

Signature of Bidder: _____

ADVERTISEMENT TO BIDDERS

**Advertisement to Bidders
for
2010-MH REHAB-1
SANITARY SEWER MANHOLE REHABILITATION PROJECT**

For
CITY OF GRAND ISLAND, NEBRASKA

Sealed bids will be **received at the office of the City Clerk**, 100 E. First St., Grand Island, NE 68801 or P.O. Box 1968, Grand Island, Nebraska **until; 2:00 p.m., (Local Time), Wednesday, July 14, 2010** for the **2010-MH REHAB-1 SANITARY SEWER MANHOLE REHABILITATION PROJECT** for the City of Grand Island. Bids will be publicly opened at this time in the Conference room #1 located on 1st floor of City Hall. Bids received after specified time will be returned unopened to sender.

A pre-bid meeting will be held for this project at 10:00 a.m., Local Time, Tuesday, July 6, 2010 at the Waste Water Treatment Plant conference room located at 3013 East Swift Road, Grand Island, NE. Bidder attendance at this meeting is required in order to be qualified to bid on the project.

Bids shall be submitted on forms which will be furnished by the City. Each bidder shall submit with his bid a certified check, a cashier's check or bid bond payable to the City. Treasurer in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within 15 days, at the bid price, if accepted by the City. **"Your certified check, cashiers check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid."** Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened or considered. Bid bonds must be issued by surety companies authorized to do business in the State of Nebraska.

The successful bidder will be required to comply with fair labor standards as required b Nebraska R.R.S. 73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

Successful bidder shall comply with the City's insurance requirements, and supply performance and payment bonds. Successful bidder shall maintain a Drug Free Workplace Policy.

Bids will be evaluated by the Purchaser based on price, quality, adherence to schedule, plan and specification, economy and efficiency of operation, experience and reputation of bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The Purchaser reserves the right to reject any or all bids and to waive irregularities therein and to accept whichever bid that may be in the best interest of the City, at its sole discretion.

No bidder may withdraw his bid for a period of forty-five (45) days after date of opening bids.

Plans and specifications for use in preparing bids may be obtained from WWTP, 3013 East Swift Road, Grand Island, NE or by contacting Fred Tustin at 308-385-5430.

Gratuities and Kickbacks. City Code states that it is unethical for any person to offer, give or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

Budget Year. The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

LB 403. Every public contractor and their subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

TITLE VI: The City of Grand Island, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notified all bidden that it will affirmatively insure that in any contact entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, sex, age and disability/handicap in consideration for an award.

SECTION 504/ADA NOTICE TO THE PUBLIC: The City of Grand Island does not discriminate on the basis of disability in admission of its programs, services, or activities, in access to them, in treatment of individuals with disabilities, or in any aspect of their operations. The City of Grand Island also does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information or accommodation regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

RaNae Edwards
Cit Clerk

REVISED May 3, 2010

CONTRACTOR'S BID

2010-MH REHAB-1

Sanitary Sewer Manhole Rehabilitation Project

CITY OF GRAND ISLAND, NEBRASKA

CONTRACTOR'S BID

TO THE MEMBERS OF THE COUNCIL
CITY OF GRAND ISLAND
GRAND ISLAND, NEBRASKA

THE UNDERSIGNED BIDDER, having examined the plans, specifications, general and special conditions, and other proposed contract documents, and all addenda thereto and being acquainted with and fully understanding (a) the extent and character of the work covered by this Bid, (b) the location, arrangement, and specified requirements for the proposed work, (c) the location, character, and condition of existing streets, roads, highways, railroad, pavements, surfacing, walks, driveways, curbs, gutters, trees, sewers, utilities, drainage courses and structures, and other installations, both surface and underground which may affect or be affected by the proposed work, (d) the nature and extent of the excavations to be made and the handling and re-handling of excavated materials, (e) the location and extent of necessary or probable dewatering requirements, (f) the difficulties and hazards to the work which might be caused by storm and flood water, (g) local conditions relative to labor, transportation, hauling and rail delivery facilities, and (h) all other factors and conditions affecting or which may be affected by the work.

HEREBY PROPOSES to furnish all required materials, supplies, equipment, tools and plans, to perform all necessary labor and supervision, and to construct, install, erect, equip and complete all work stipulated in, required by and in accordance with the contract documents and the plans, specifications and other documents referred to therein (as altered, amended or modified by all addenda thereto) for and in consideration of the following prices:

Base Bid

No.	Item	Estimated Quantity		Firm Unit Price	Total Price
1.	Mobilization	1.0	Each	\$ _____	\$ _____
2.	Replace Manhole Riser Adjustment Ring	5.5	V.F.	\$ _____	\$ _____
3.	Replace Manhole Cast Iron Frame & Cover	4.0	Each	\$ _____	\$ _____
4.	Replace Manhole Cone Section	4.0	Each	\$ _____	\$ _____

5.	Remove and Reset Existing Manhole Frame and Cover	174.0	Each	\$ _____	\$ _____
6.	Install Polyethylene Grade Ring Infiltration Barrier	9.0	Each	\$ _____	\$ _____
7.	Removal of Manhole Step	1.0	Each	\$ _____	\$ _____
8.	Stop Infiltration Leak Manhole Sidewall	18.0	Each	\$ _____	\$ _____
9.	Stop Infiltration Leak Manhole Bench and Invert	237.0	V.F.	\$ _____	\$ _____
10.	Manhole Repair (Patching)	29.0	V.F.	\$ _____	\$ _____
11.	Manhole Rehabilitation (Cementitious Lining)	44.0	V.F.	\$ _____	\$ _____
12.	Cementitious Lining Additional Thickness	20.0	V.F.	\$ _____	\$ _____
13.	Manhole Rehabilitation (Epoxy Lining)	309.0	V.F.	\$ _____	\$ _____
14.	Pavement Removal and Replacement	12.0	S.Y.	\$ _____	\$ _____
15.	Traffic Control 1-Lane with Flagmen Crew	18.0	Each	\$ _____	\$ _____
16.	Remove & Replace Manhole Inside Drop Piping	6.0	Each	\$ _____	\$ _____
	Total <u>Base Bid</u> for all Unit Prices			\$ _____	

Additive Bid

No.	Item	Estimated Quantity		Firm Unit Price	Total Price
17A.	Mobilization	1.0	Each	\$ _____	\$ _____
18A.	Replace Manhole Riser Adjustment Ring	112.0	Each	\$ _____	\$ _____
19A.	Replace manhole Cast Iron Frame and Cover	1.0	Each	\$ _____	\$ _____
20A.	Replace Manhole Cone Section	3.0	Each	\$ _____	\$ _____
21A.	Remove and Reset Existing Manhole Frame and Cover	10.25	Each	\$ _____	\$ _____
22A.	Install Polyethylene Grade Ring Infiltration Barrier	189.1	V.F.	\$ _____	\$ _____
23A.	Removal of Manhole Step	30.0	V.F.	\$ _____	\$ _____
24A.	Stop Infiltration Leak Manhole Sidewall	39.0	V.F.	\$ _____	\$ _____
25A.	Stop Infiltration Leak Manhole Bench	1.0	V.F.	\$ _____	\$ _____
26A.	Manhole Repair (Patching)	189.1	V.F.	\$ _____	\$ _____
27A.	Manhole Rehabilitation (Cementitious Lining)	4.0	Each	\$ _____	\$ _____
	Total <u>Additive Bid</u> for all Unit Prices			\$ _____	
	Total Bid for Project 2010-MH REHAB-1 (Base Bid + Additive Bid)			\$ _____	

EXPERIENCE DATA:

Each bidder shall supply the following data on his experience:

Name of Bidder: _____

Project Owner/Contact/Phone No. Project Location Completion Date

Additional Data: _____

INSURANCE: Bidder acknowledges that bid includes compliance with the attached insurance requirements.

ADDENDA:

Bidder acknowledges that the following Addendums were received and considered in Bid preparation.

<u>ADDENDUM NO.</u>	<u>DATE</u>	<u>SIGNATURE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Bidder acknowledges that Addenda Number(s) _____ were received and considered in Bid preparation.

Exceptions shall be listed in the following blanks. If additional space is required for exception explanation, please reference and attach a letter to bid. Reference shall not be made to other attachments for exceptions and supplementary terms. Failure to outline such exceptions as specifically stated herein will require the successful bidder to comply with these specifications. In case of conflict between the bid and these specifications, these specifications shall govern unless specific exceptions are listed by the bidder.

Exceptions to specifications, pages _____

The undersigned bidder agrees to furnish the required bond and to enter into a contract within 15 days after acceptance of this Bid, and further agrees to complete all work covered by the foregoing bid in accordance with specified requirements. **No work shall commence until the Certificate of Insurance and bonds (when required) are approved by the City and the contract is executed.** The proposed work can commence after the contract is signed and the required bond is approved. This work shall be completed 60 calendar days after issuance of Notice to Proceed.

Enclosed herewith is the required bid guarantee in the amount of _____ Dollars (\$ _____)

which the undersigned bidder agrees is to be forfeited to and become the property of the City of Grand Island, Nebraska, as damages should this Bid be accepted and a contract be awarded to them and they fail to enter into a contract in the form prescribed and to furnish the required bond within 15 days, but otherwise the aforesaid bid guarantee will be returned upon his signing the contract and delivering the approved bond.

In submitting this bid it is understood that the right is reserved by the City to reject any and all bids; to waive irregularities therein and to accept whichever bid that may be in the best interest of the City. It is understood that this bid may not be withdrawn until after 45 days from bid opening.

In submitting this bid, the bidder states that bidder fully complies with, and will continue to comply with, applicable State fair labor standards as required by section 73-102 RRS, 1943 and also complies with, and will continue to comply with, section 48-657 RRS, 1943 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

The undersigned bidder hereby certifies (a) that this bid is genuine and is not made in the interest of or in the behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation, (b) that they have not directly or indirectly induced or solicited any person, firm or corporation to refrain from bidding, (c) that they have not sought, by collusion or otherwise, to obtain for himself an advantage over any other bidder or over the City of Grand Island, and (d) that they have not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.

DATED _____

SIGNATURE OF BIDDER:

If an Individual: _____ doing business
as _____

If a Partnership: _____

By _____, member of firm.

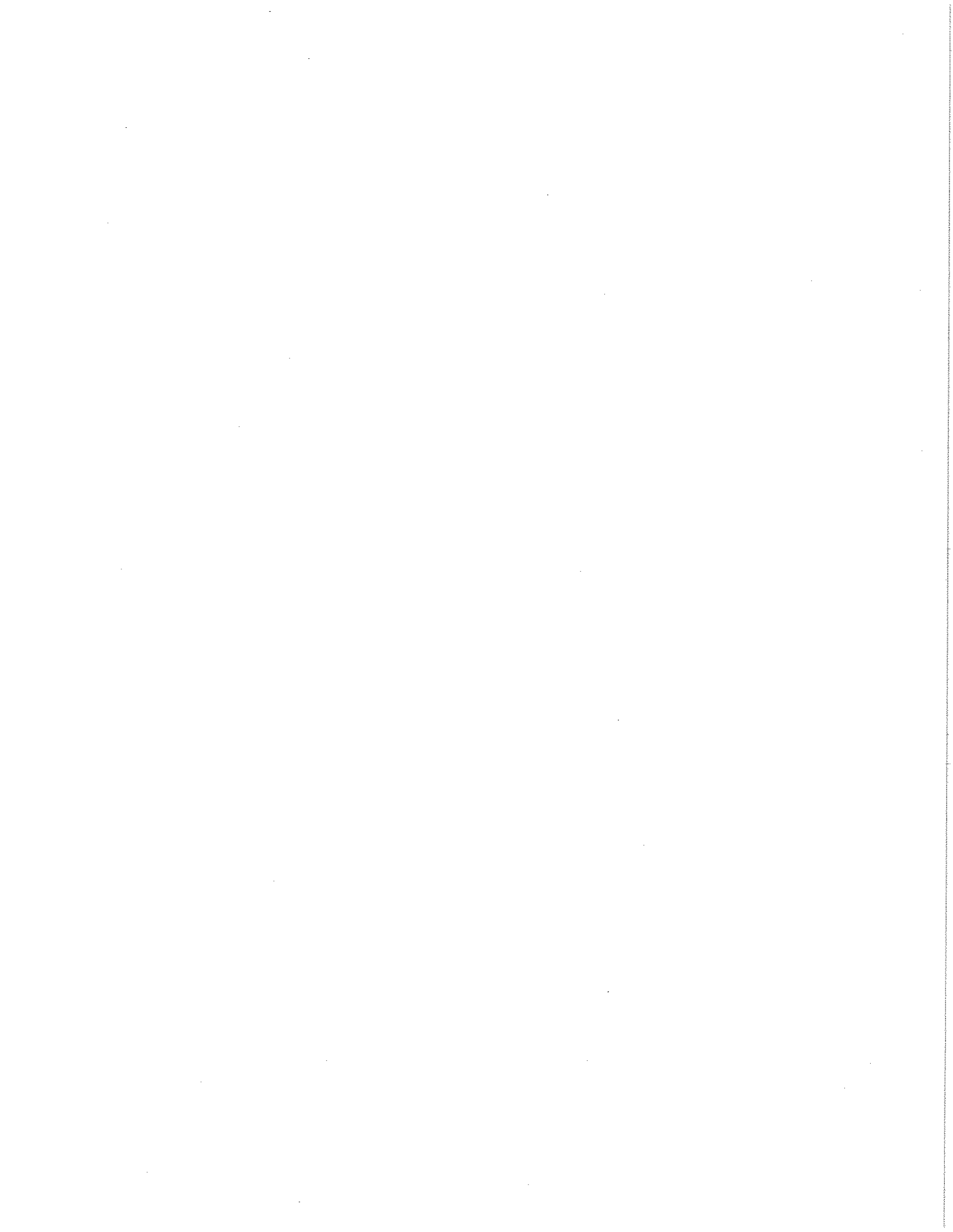
If a Corporation: _____

by _____ (Seal)
Title

BUSINESS ADDRESS OF BIDDER

TELEPHONE NUMBER OF BIDDER

FAX NUMBER OF BIDDER



INSTRUCTIONS TO BIDDERS

**INSTRUCTIONS TO BIDDERS
for**

2010-MH REHAB-1

SANITARY SEWER MANHOLE REHABILITATION PROJECT

CITY OF GRAND ISLAND, NEBRASKA

EXCEPTIONS TO SPECIFICATIONS: Each bidder shall carefully check all requirements herein set forth and shall offer items which fully comply with these requirements or shall plainly set forth all points, features, conditions, specifications, etc., wherein his items offered do not meet these specifications.

SUBMISSION OF BIDS: All bids shall be submitted using the City's bid form. Bids shall be **addressed to the City Clerk** and plainly marked, **"2010-MH REHAB-1, SANITARY SEWER MANHOLE REHABILITATION PROJECT"**.

INSURANCE COVERAGE: The Contractor shall purchase and maintain at his expense as a minimum insurance coverage of such types and in such amounts as are specified herein to protect Contractor and the interest of Owner and others from claims which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. Failure of Contractor to maintain proper insurance coverage shall not relieve him of any contractual responsibility or obligation.

BASE BID: The bidder is expected to base his bids on materials and items complying fully with these specifications, and in the event he names in his bid materials or items which do not conform, he will be responsible for furnishing materials and items which fully conform at no change in his bid price.

BIDDER QUALIFICATION: Bids will be received only from qualified bidders. A bidder will be considered qualified if he is a recognized manufacturer or supplier of materials and items similar to that specified herein with complete factory facilities in the United States and has had experience in the design and manufacture of items of equal or greater size than that specified herein. If requested, the Bidder shall supply experience data. Such data will be used to assist in determining the qualifications of the Bidder. Bidder must comply with all applicable Federal, State and Local rules and regulations. **Attendance at the pre-bid meeting is a requirement to become a qualified bidder.**

CHECKS OR BID BONDS: Checks or bid bonds of the unsuccessful bidders will be returned when their bids have been rejected and not to exceed 45 days from the date bids are opened. All bids shall remain in force for this 45-day Period. The check or bid bond of the successful bidder will be returned when the Contracts are signed by both parties and necessary bonds supplied. Should the Purchaser make an award to a Contractor who refuses to enter into Contract and furnish the required bonds within 15 days after notification of acceptance, then the bid security

which has been deposited with the Purchaser will be forfeited to the Purchaser as liquidated damages.

PERFORMANCE BOND: When required, on award of the Contract, the successful Contractor shall furnish a Performance Bond which shall be in an amount equal to the full Contract price, guaranteeing faithful compliance with all requirements of the Contract Documents and complete fulfillment of the Contract, and payment of all labor, material and other bills incurred in carrying out this Contract. According to Nebraska Law, the surety company executing the Performance Bond must be authorized to do business in the State of Nebraska.

PAYMENT BOND: When required, on award of the Contract, the successful Contractor shall furnish a Payment Bond which shall be in an amount equal to the full Contract price, guaranteeing protection of all persons supplying labor and materials to the Contractor or its subcontractors for the performance of the work provided for in the Contract. In accordance with Nebraska Law, the surety company executing the Payment Bond must be authorized to do business in the State of Nebraska.

TAXES: The City of Grand Island is exempt from paying local City and State Sales Tax. Refer to Exempt Sale Certificate enclosed for your information. Contractor must pay any other tax which might be applicable.

REQUESTS FOR PAYMENT: The City of Grand Island will make payments only after approval at regularly scheduled City Council meetings. These meetings typically occur the second and fourth Monday each month. Requests for payment must be received no less than ten working days prior to the designated meeting to allow proper review and consideration. Payments will only be made after final completion of the project to City's satisfaction unless otherwise stated in bidding documents.

REQUEST FOR INTERPRETATION: If any person, contemplating submitting a bid for this Contract is in doubt as to the true meaning of any part of the specifications or other proposed Contract documents, he may submit to the Purchasing Department a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by addendum only issued and/or delivered to each person receiving a set of such documents. The addenda upon closing shall become a part of the Contract. The Purchasing Department will not be responsible for any other explanation or interpretation of the proposed documents.

TIME OF COMPLETION: Time of completion is the essence of the Contract. Construction work shall be completed on or before **October 29, 2010**.

CLEANING UP: Contractor shall maintain a clean and safe work area while on site.

ADDENDA: Any addendum to the specifications issued during the time allowed for preparation of bids shall be covered in the bid and shall become a part of the specifications. One copy of each addendum issued before the date of the letting will be sent to all bidders. One signed copy

is to be returned immediately to the Purchasing Department (or other department if so designated in the Addendum) as acknowledgment of receipt.

MODIFICATION OF BIDS: Bids may be modified or withdrawn by an appropriate document duly executed in the manner that a bid must be executed and delivered to the place where bids are to be submitted at any time prior to the final time set for receiving bids. Bidders may modify or withdraw bids by Fax communication at any time prior to the time set for receiving bids provided this instruction is positively identified. Any Fax modification should not reveal the amended bid price but should provide only the addition, subtraction or other modifications. A duly-executed document confirming the Fax modification shall be submitted within three days after bids are opened.

BID DATA: Bidders shall submit bid data, if required, on items offered in the Bid by filling in one set of data sheets supplied by the Purchasing Department. The bid sheets shall be filled out legibly in ink to permit reproduction.

BIDDER SECURITY: Bidder security, when required, shall be enclosed in a special envelope marked. "**BIDDER SECURITY/BID FOR 2010-MH REHAB-1, SANITARY SEWER MANHOLE REHABILITATION PROJECT**". The envelope shall contain only a cashier's check, certified check or bidders bond.

This special envelope shall be attached to a sealed envelope containing the bid and any other bid materials. This second envelope shall be "BID FOR 2010-MH REHAB-1, SANITARY SEWER MANHOLE REHABILITATION PROJECT" and be addressed to the City Clerk." Bids of an incomplete nature or subject to multiple interpretation may, at the option of the Purchaser, be rejected as being irregular.

FINANCIAL STATEMENT: The bidder shall furnish upon request a complete financial statement signed by the bidder, if an individual, by all partners if the bidder is a partnership and, by the President or Secretary, if the bidder is a corporation.

DRUG FREE WORKPLACE POLICY: Bidders shall furnish, upon request, a copy of their Drug Free workplace Policy.

EQUAL EMPLOYMENT OPPORTUNITY: The Contractor agrees that during the performance of this Contract not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, disability, age or national origin, and to comply with Executive Order 11,246 of September 24, 1965, and the rules, regulations and relevant orders of the Secretary of Labor, and Chapter 20 of the Reissue Revised Statutes of the State of Nebraska.

LOCAL CONDITIONS: Each bidder shall have an authorized representative visit the site of the work and thoroughly inform himself of all conditions and factors which would affect the work and the cost thereof, including the arrangement and conditions of existing or proposed structures affecting or affected by the proposed work; the procedure necessary for maintenance of uninterrupted operation; the availability and cost of labor and facilities for transportation, handling, and storage of materials and equipment.

It must be understood and agreed that all such factors have been investigated and considered in the preparation of every bid submitted. No claims for financial adjustment (to any Contract awarded for the work under these Specifications and documents) will be permitted by the City, which are based on lack of such prior information, or its effect on the cost of the work.

CORRESPONDENCE: Correspondence regarding drawings, instruction manuals, and other engineering data shall be clearly marked "FOR ENGINEERING DEPARTMENT" and sent through:

City of Grand Island
Waste Water Division – Fred Tustin
P.O. Box 1968
Grand Island, NE 68802-1968
(308) 385-54430

LOCAL BIDDER PREFERENCE: In case of tied low bids, all other things being equal, preference shall be given in the following order:

1. To those bidders who manufacture their products within the limits of the City of Grand Island.
2. To those bidders who manufacture their products within the limits of the County of Hall.
3. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the City of Grand Island.
4. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the County of Hall.
5. To those bidders who maintain a bona fide business office in the City of Grand Island, whose products may be made outside the confines of the City of Grand Island.
6. To those bidders who maintain a bona fide business office in the County of Hall, whose products may be made outside the confines of the County of Hall.
7. To those bidders whose commodities are manufactured, mined, produced, or grown within the State of Nebraska, and to all firms, corporations, or individuals doing business as Nebraska firms, corporations or individuals, when quality is equal or better, and delivered price is the same or less than the other bids received.
8. To those bidders whose commodities are manufactured, mined, produced, or grown within the United States of America, and to all firms, corporations, or individuals doing business as firms registered in states other than Nebraska, when quality is equal or better, and delivered price is the same or less than the other bids received.

Gratuities and Kickbacks. City Code states that it is unethical for any person to offer, give or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

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TITLE VI: The City of Grand Island, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notified all bidden that it will affirmatively insure that in any contact entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, sex, age and disability/handicap in consideration for an award.

SECTION 504/ADA NOTICE TO THE PUBLIC: The City of Grand Island does not discriminate on the basis of disability in admission of its programs, services, or activities, in access to them, in treatment of individuals with disabilities, or in any aspect of their operations. The City of Grand Island also does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information or accommodation regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

CONTRACT AGREEMENT

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this _____ day of _____
2010, by and between _____
hereinafter called the Contractor, and the City of Grand Island, Nebraska, hereinafter called the City.

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for bids to be published, for construction of **2010-MH REHAB-1 SANITARY SEWER MANHOLE REHABILITATION PROJECT** and WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the proposals submitted, and has determined the aforesaid Contractor to be the lowest responsive bidder, and has duly awarded to the said Contractor a contract therefore, for the sum or sums named in the Contractor's bid, a copy thereof being attached to and made a part of this contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself, himself, or themselves, and its, his, or their successors, as follows:

ARTICLE I. That the Contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other construction materials, services and facilities; (b) furnish, as agent for the City, all materials, supplies and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as listed in the attached General Specifications, said documents forming the contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's bid;

ARTICLE II. That the City shall pay to the contractor for the performance of the work embraced in this contract and the contractor will accept as full compensation therefore the sum (subject to adjustment as provided by the contract) of

_____ Dollars
Words

_____ \$
Number

for all services, materials, and work covered by and included in the contract award and designated in the foregoing Article I; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

CONTRACT AGREEMENT (Continued)

ARTICLE III. The contractor hereby agrees to act as agent for the City in purchasing materials and supplies for the City for this project. The City shall be obligated to the vendor of the materials and supplies for the purchase price, but the contractor shall handle all payments hereunder on behalf of the City. The vendor shall make demand or claim for payment of the purchase price from the City by submitting an invoice to the contractor. Title to all materials and supplies purchased hereunder shall vest in the City directly from the vendor. Regardless of the method of payment, title shall vest immediately in the City. The contractor shall not acquire title to any materials and supplies incorporated into the project. All invoices shall bear the contractors name as agent for the City. This paragraph will apply only to these materials and supplies actually incorporated into and becoming a part of the finished product of **2010-MH REHAB-1 SANITARY SEWER MANHOLE REHABILITATION PROJECT.** ARTICLE IV. That the contractor shall start work as soon as possible after the contract is signed and the required bond is approved. All work shall be completed on or before **October 29, 2010.**

ARTICLE V. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. During the performance of this contract, the contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, national origin, age or disability. The Contractor agrees to comply with all applicable Local, State and Federal rules and regulations.

ARTICLE VI. The Contractor shall perform the work within the period of time stipulated above, unless an extension of time is granted by the City Council.

Gratuities and Kickbacks. City Code states that it is unethical for any person to offer, give or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

Budget Year. The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

LB 403. Every public contractor and their subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

TITLE VI: The City of Grand Island, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notified all bidden that it will affirmatively insure that in any contact entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, sex, age and disability/handicap in consideration for an award.

SECTION 504/ADA NOTICE TO THE PUBLIC: The City of Grand Island does not discriminate on the basis of disability in admission of its programs, services, or activities, in access to them, in treatment of individuals with disabilities, or in any aspect of their operations. The City of Grand Island also does not discriminate on the basis of disability in its hiring or employment practices.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information or accommodation regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

IN WITNESS WHEREOF, the parties hereto have executed this Contract Agreement as of the date and year first above written.

Contractor _____

By _____

Date _____

Title _____

CITY OF GRAND ISLAND, NEBRASKA,

By _____
Mayor

Date _____

Attest: _____
City Clerk

The contract and bond are in due form according to law and are hereby approved.

Attorney for the City

Date _____

Special Provisions

2010-MH REHAB-1 Sanitary Sewer Manhole Rehabilitation Project

City of Grand Island, Nebraska

DIVISION IA – SPECIAL PROVISIONS

SECTION 200 – GENERAL

200.01 Description of Work. The work to be performed under the provisions of this contract consists of furnishing all equipment, materials, labor, and appurtenances thereto and performing all related work as specified and shown on the plans for the complete rehabilitation of sanitary sewer manholes.

200.02 Location of Work. The location of the work to be performed is as follows:

- 1) **Base Bid** Capital Avenue from the BNRR to Geddes Street, manhole #'s 177-16, 177-15, 177-14, 177-13, 177-12, 177-11, 177-10, 177-9, 177-8, 177-7A, 177-7, 177-6, 177-5, 177-4, 177-3, 177-2, 177-1, 177.
- 2) **Additive Bid** Geddes Street from Capital Avenue to 7th Street, manhole #'s 176, 175, 174, 173, 172, 171, 170.
- 3) **Additive Bid** 7th Street from Geddes Street to Sky Park Road, manhole #'s 169, 168, 167.

The City reserves the right to add to or delete from this list of locations in order to match available funds budgeted for the purpose of manhole rehabilitation.

200.03 Specifications. The specifications which govern the materials and equipment to be furnished and the work to be performed under this contract are listed herein and in Division I – General Provisions, Division IA – Special Provisions, Division II Portland Cement Concrete Pavement, Division V Storm and Sanitary Sewers, Division VII PVC Gravity Sanitary Sewers, and Division VIII Standard Plan Drawings #129, 129A, #130 and #130A.

No attempt has been made in the specifications to segregate work to be performed by any trade or subcontract. Any segregation between the trades or crafts will be solely a matter for agreement between the Contractor and their employees and their subcontractors.

The specifications as a whole will govern the construction of the entire work. The applicable provisions thereof will govern the work to be performed under each section.

The general conditions are general in scope and may refer to conditions not encountered on the work covered by this contract. Any provisions of the General Provisions which

pertain to a non-existent condition and is not applicable to the work to be performed hereunder, or which conflicts with any provisions of the Special Provisions shall have no meaning in the contract and shall be disregarded.

200.04 Exempt Sales Certificate. The Contractor performing work under this contract will be issued a Purchasing Agent Appointment and Sales Certificate signed by the authorized representative of the City. This is to be used by the Contractor when purchasing tangible personal property to be actually incorporated into the contract work. It does not apply to either (1) the purchase of materials to be used, but not incorporated into the contract work, including but not limited to form lumber, scaffolding, etc. or (2) the purchase or rental of machinery, equipment or tools owned or leased by the Contractor and used in performing the contract work. The contractor may produce copies of the Purchasing Agent Appointment and Exempt Sales Certificate to furnish their supplies on each invoice or order.

200.05 Award of Bid. After bid opening it is anticipated the Manhole Rehabilitation Contract will be awarded at the next scheduled Council Meeting.

200.06 Public Relations. Public relations are a very important part of this type of work. The Contractor and their employees need to recognize the necessity to be courteous to the public and especially to landowners and businesses on whose property or near whose property they are working.

200.07 Progress Payments. Progress payments may be made after regularly scheduled council meetings upon request from the Contractor.

200.08 Materials. There will be no payments made for materials on hand.

200.09 Schedule of Operations. Prior to starting work the contractor shall prepare a detailed schedule indicating both the sequence of work and the date for starting and completing each phase of work. The schedule of operations shall be submitted to Fred Tustin of the Public Works Department - Waste Water Division (308-390-2503).

200.10 Traffic Control. It is anticipated closure of one traffic lane will be required while performing this work. The Contractor shall provide and maintain barricades, warning signs, flares and flashing lights as required in accordance with the "Manual on Uniform Traffic Control Devices". In addition the Contractor shall provide flagmen to facilitate traffic through the work zone as required. No separate payment will be made for maintenance of barricades, warning signs, flares, flashing lights or general maintenance of traffic, but shall be considered subsidiary to the applicable items for which payment is made. Separate payment will be made for "traffic control 1-lane with flagmen crew".

200.11 Street Closing. When it becomes necessary to close any street during the execution of this work, the Contractor shall notify the Public Works Department 72 hours in advance at 308-385-5444 extension 260. The City of Grand Island Street and Transportation Division will be responsible for signing detour routes.

200.12 Completion. The base bid work shall be completed on or before September 30, 2010. The additive work shall be completed October 29, 2010 or 60 calendar days after issuance of notice to proceed if notice to proceed is issued after August 2, 2010.

200.13 Liquidated Damages. It is understood and agreed that time is of the essence. Should the Contractor fail to perform the work within the period of time stipulated, the Contractor shall pay to the City \$100.00 per calendar day of default unless extension of time granted by the City specifically waives the payment of liquidated damages.

200.14 Warranty. The Contractor shall guarantee his work for a warranty period of five (5) years from date of acceptance. If, at any time during the warranty period, any leakage, cracking, loss of bond, or other discontinuity is identified, the Contractor shall make repairs acceptable and at no additional cost to the owner.

200.15 Safety. The Contractor shall conduct their operations in accordance with applicable OSHA standards, including those safety requirements involving entry into a confined space. In addition the contractor shall make suitable precautions to eliminate hazards to personnel near the construction zone.

200.16 Additive Bid. The additive bid is for a body of work the City may award if there are sufficient funds available in the Waste Water Division budget at or near the end of the current fiscal year (October 1, 2010). This work is in addition to the base bid work.

200.17 Evaluation of Bids. In addition to cost, bids will be evaluated by the City based on the following: 1) Products used for the proposed rehabilitation system, 2) Track record of product experience on similar projects. The City reserves the right to reject any or all bids, to waive technicalities, and to accept whichever bid that may be in the best interest of the City at its sole discretion.

200.18 Pre-Bid Meeting. Attendance at the pre-bid meeting is a requirement to be qualified to bid on this project.

SECTION 201 – MANHOLE REHABILITATION

201.1 Description. This work consists of all work, materials, labor, and equipment required for manhole rehabilitation for the purpose of eliminating infiltration, providing corrosion protection, adjustment of manhole top to final grade, repair of voids, and restoration of the structural integrity of the manhole.

201.2 Submittals. The Contractor shall submit the following information as part of the bid package:

- 1) Product data for patching, elimination of leaks, prevention of acid producing bacteria, cementitious lining, and epoxy lining.

- 2) Manufacturer's published literature for the proposed manhole rehabilitation system.
- 3) Manufacturer's certification that the proposed rehabilitation system meets the requirements of the specifications
- 4) Documentation of product experience. This documentation shall include at least ten jobs of similar size and scope within the last ten years, and owner contact information. Five of the jobs shall be at least five years since completion.
- 5) Documentation of Contractor training. This documentation shall include manufacturer's certification of Contractor training
- 6) A reference list of Contractor experience (i.e. manhole lining and general construction). This documentation shall include project description and owner contact information.

201.03 Materials. The Contractor shall use the following product/products for each phase of the manhole rehabilitation and shall comply with all manufacturer recommendations for utilization of each product. Use of a manufacturer brand name and specific product name is for the purpose of establishing known quality and functionality. Other manufacturer brands and specific products may be substituted if approved by the Engineer as an equal product.

- 1) Manhole Riser Adjusting Ring. Manhole riser adjusting rings shall be either precast concrete conforming to ASTM C478 or polyethylene conforming to ASTM D1248. Concrete adjusting rings shall be not less than four (4) inches and not more than six (6) inches. Polyethylene adjusting rings shall be not greater than four (4) inches. Grade rings are to be installed with a Butyl Rubber sealant/adhesive.
- 2) Cast Iron Frame and Cover. Cast iron frame and covers shall be Deeter No. 1030 w/"SANITARY SEWER" raised letters.
- 3) Manhole Cone Section. Manhole cone sections shall be Type 2 precast as per section 27.04, Division V Storm and Sanitary Sewers. The exterior of the manhole shall receive a bituminous or coal tar coating.
- 4) Polyethylene Grade Ring Infiltration Barrier. Polyethylene infiltration barriers shall be a molded polymer shield incorporated into the manhole chimney and conform to ASTM 1248.
- 5) Leak Plugging. A quick setting hydraulic compound suitable for either interior or exterior application shall be used to stop running water or seepage leaks. PERMACAST PLUG manufactured by AP/M Permaform and Strong Seal QSR are acceptable products.
- 6) Patching Material. A fast setting cement based concrete and masonry compound suitable for underwater use shall be used to repair voids. PERMACAST PATCH manufactured by AP/M Permaform and Strong Seat QSR are acceptable products. The patch material shall also contain Con Shield for additional protection against deterioration.
- 7) Cementitious Lining Material. The cementitious lining material shall be a spray applied high strength corrosion resistant mortar suitable for severely corrosive

- environments. MS-10,000 Fortified with Con Shield manufactured by Con Shield Technologies Inc. and Strong Seal MS-2A are acceptable products.
- 8) Epoxy Lining Material. The epoxy lining material shall be a spray applied two component 100% solids epoxy impermeable to liquids and vapors. COR+GARD manufactured by AP/M Permaform and Raven Lining Systems are acceptable products.
 - 9) Pavement. All pavement shall be replaced with 47-B Modified as per Division II Portland Cement Concrete Pavement.

201.04 Equipment. The contractor shall utilize approved equipment designed and manufactured by the material supplier for the specific application. Application to hard to reach areas and touch-up may be done using approved hand tools. The Contractor shall have received training on the operation and maintenance of the equipment and shall also be trained and certified by the coating manufacturer for handling, mixing, application and inspection of the coating products.

201.05 General Preparation. The contractor shall place plugs over inverts to prevent foreign material from entering the sewer system. All steps shall be removed by cutting flush with the wall.

201.06 Preparation for Cementitious Lining. All foreign material shall be removed from the manhole wall and bench using a sufficiently high pressure water spray to etch the existing surface (minimum 3,500 psi). Loose and protruding brick, mortar, and concrete shall be removed from the wall and bench using a masons hammer, chisel, and scraper. Large voids are to be filled with a fast setting patching material as per manufacturer recommendations.

The manhole invert shall also be patched and sealed where visible damage or infiltration is present. The finished invert surfaces shall be finished smooth and free of ridges.

Control of sewage flow to include bypass pumping if necessary will be performed as a joint effort between the Contractor and the City Waste Water Division. 1) The Contractor shall adjust their work hour to avoid peak sewage flows. This may require the Contractor to work early morning hours and or weekends to avoid high flows from Lift Station #19 and from McCain Foods. 2) The Contractor is also responsible for isolating their work area during periods of low sewage flow. This may require the contractor to plug off the upstream side of the manhole or furnish and install a flow through plug. 3) The City shall shut down Lift Station #19 for a period of several hours. The number of hours the station can be shut down is dictated by the incoming flow of sewage and ground water. It is anticipated the station can typically be shut down for a period of 8 hours. 4) The City shall negotiate with McCain Foods to allow for shut down periods. Shutdown periods are seasonal to operations at the plant. The time of day, number of hours, and days of the week shall be determined at the time construction schedule is submitted. 5) The City shall negotiate with the Central Nebraska Regional Airport to allow for shut down periods. It is anticipated the Airport flow can typically be shut down for a period of 8 hours. 6) The

City shall bypass pump sewage in the event the above efforts are not adequate. No separate or additional payment will be made for control of sewage flow.

Active leaks, either running water or seepage, shall be stopped using a quick setting hydraulic compound. It may be necessary to inject water plug sealant through ports in the manhole wall to seal heavy leaks. Application shall be as per manufacturer recommendations.

The final step of preparation is application of a Con Shield rinse to kill any remaining bacteria.

Prior to application of cementitious lining the Engineer and Contractor shall measure the inside diameter of the manhole at various points to determine the thickness of cementitious lining to be applied. The Engineer shall utilize the "Manhole Work Sheet" in Appendix "A" to detail the vertical feet of each thickness to be applied.

201.07 Application of Cementitious Lining. The surface shall be clean, free of any foreign material, and saturated without any free water droplets. The mortar is then spray applied beginning at the lowest point and applying a uniform thickness around the interior. The minimum application thickness measured at the manhole wall shall be 0.5 inch. Additional layers, measured in multiples of 0.5 inches, may be applied at any time to achieve the desired thickness. Material may be hand applied to the bench surface tapering from the wall to the edge of the channel. Application shall be as per manufacturer recommendations.

201.08 Preparation for Epoxy Lining. All grease, oil, laitance, coatings, loose bricks, mortar, unsound brick or concrete and other foreign materials shall be completely removed using a high pressure water spray (minimum 3,500 psi). Voids shall be filled as per paragraph 201.06. All surfaces to receive lining shall be thoroughly rinsed, scrubbed, and neutralized to remove cleaning agents and their reactant products. All leaks shall be stopped as per paragraph 201.06. Surfaces that have not received Permacast mortar shall be primed with Permacast B-1 primer to seal pores and strengthen the surface for epoxy lining.

The final step of preparation is application of a Con Shield rinse to kill any remaining bacteria if greater than 24 hours have passed since application of Permacast mortar or priming of the substrate.

201.09 Application of Epoxy Lining. The epoxy lining shall be applied with a rotating Spin Caster or a spray directly over the cementitious lining. Material may be hand applied by brush in difficult to reach areas. Application of epoxy lining can begin 60 minutes after completion of the cementitious lining or after the liner has set. Application shall be as per manufacturer recommendations. The epoxy lining shall be a minimum of 100 mil thickness.

201.10. Remove & Replace Manhole Inside Drop Piping. There are several manholes with inside drops as per Standard Plan No.129A. The contractor shall remove the piping to include the “tee” fitting if possible along with the straps & anchors. After application of cementitious lining and prior to application of epoxy lining the contractor shall install new stainless steel wall anchors. After application of the epoxy lining the contractor shall restore the inside drop piping as per Standard Plan No. 129A.

SECTION 202 – TESTING

202.01 Visual Inspection. The Engineer and Contractor shall make a visual inspection. Any visible deficiencies found in the finished system shall be repaired.

202.02 Wet Film Thickness Gauge. The thickness of liner coatings shall be verified with a wet gage at random points of the new interior surface.

202.03 Holiday Detection. When completely cured the epoxy liner shall be spark tested to assure a pinhole free lining. Defects shall be marked and repaired per the manufacturer instructions.

SECTION 203 – MEASUREMENT AND PAYMENT

203.01 Mobilization. Payment for mobilization is a onetime lump sum payment for costs of work not attributable to any specific bid item in advance of construction operations required for the contractor to move on site. The Contractor may mobilize at periods deemed necessary to complete the work throughout the construction dates established in the agreement. In the event the City stops work due to unforeseen circumstances, a remobilization fee shall be negotiated at that occurrence time.

203.02 Replace Manhole Riser Adjustment Ring. Payment for either precast concrete or preformed plastic manhole riser adjustment rings will be full compensation for all labor, materials, and equipment, excavation, backfill, compaction necessary to remove and dispose of existing deteriorated adjusting rings and replace with new precast or preformed concrete or plastic riser rings including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Sawcut, removal, and restoration of pavement and base material shall be paid for under the bid item “Pavement Removal and Replacement”. Measurement and payment shall be by the vertical foot at the contract unit price measured from the top of the manhole cone section to the bottom of the cast iron frame.

203.03 Replace Manhole Cast Iron Frame and Cover. Payment for manhole cast iron frame and cover shall be full compensation for all labor, materials, and equipment excavation, backfill, compaction necessary to remove and dispose of existing deteriorated cast iron frame and cover and replace with new cast iron manhole frame including all incidentals thereto for which separate payment is not provided under any other item in the bid document. City will supply ring cover. Sawcut, removal, and restoration of

pavement and base material shall be paid for under the bid item "Pavement Removal and Replacement". Measurement and payment shall be the actual count for each.

203.04 Replace Manhole Cone Section. Payment for manhole cone sections shall be full compensation for all labor, materials, and equipment, excavation, backfill, necessary to remove and dispose of existing deteriorated cone and replace with new concrete precast cone including all incidentals thereto for which separate payment is not provided under any other items in the bid documents. Sawcut, removal, and restoration of pavement and base material shall be paid for under the bid item "Pavement Removal and Replacement". Measurement and payment shall be the actual count for each.

203.05 Remove and Reset Existing Manhole Frame and Cover. Payment for removing and resetting existing manhole frame and cover shall be full compensation for all labor, materials, and equipment, excavation, backfill, necessary to remove and reset existing cast iron frame and cover including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Sawcut, removal, and restoration of pavement and base material shall be paid for under the bid item "Pavement Removal and Replacement". Measurement and payment shall be the actual count for each.

203.06 Install Polyethylene Grade Ring Infiltration Barrier. Payment for installing a grade ring polyethylene infiltration barrier shall be full compensation for all labor, materials, and equipment, excavation, backfill, necessary to install a grade ring infiltration barrier including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Sawcut, removal, and restoration of pavement and base material shall be paid for under the bid item "Pavement Removal and Replacement". Measurement and payment shall be the actual count for each.

203.07 Removal of Manhole Step. Payment for removal of manhole step shall be full compensation for all labor, materials, and equipment necessary to remove and dispose of existing deteriorated manhole steps and patch any voids created by the removal process including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Measurement and payment shall be the actual count for each step removed.

203.08 Stop Infiltration Leak Manhole Sidewall. Payment for stopping running water or seepage leaks in the manhole sidewall excluding the joint between the bench and sidewall shall be full compensation for all labor, materials, and equipment including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Measurement and payment shall be the actual count of manholes with sidewall infiltration leaks.

203.09 Stop Infiltration Leak Manhole Bench and Invert. Payment for stopping running water or seepage leaks in the manhole bench or invert including the joint between the bench and sidewall shall be full compensation for all labor, materials, and equipment necessary including all incidentals thereto for which separate payment is not provided

under any other item in the bid documents. Control of sewage flow to include bypass pumping if necessary shall be as per paragraph 201.06. Measurement and payment shall be the actual count of manholes with bench and/or invert infiltration leaks.

203.10 Manhole Repair (Patching). Payment for manhole repair shall be full compensation for cleaning and preparing manhole wall, bench, and trough surfaces, furnishing and applying patching and preparatory items, all labor, materials, and equipment required to complete the work including all incidentals thereto for which separate payment is not provided under any other item in the bid documents for a standard four-foot diameter manhole. Measurement and payment shall be the actual count for each. Where manhole diameter is greater than standard (i.e., 5' or 6'), payment will be adjusted to account for the additional diameter (i.e., 5' diameter = 1.25 x bid price for standard; 6' diameter = 1.50 x bid price for standard, etc.). Control of sewage flow to include bypass pumping if necessary shall be as per paragraph 201.06. No separate or additional payment will be made for control of sewage flow.

203.11 Manhole Rehabilitation (Cementitious Lining). Payment for cementitious lining shall be full compensation for furnishing & applying cementitious lining to the manhole wall & bench surfaces including mortar & preparatory items, all labor, materials, & equipment necessary including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Control of sewage flow to include bypass pumping if necessary shall be as per paragraph 201.06. Measurement for payment shall be based on the actual number of vertical feet of one-half (1/2) inch cementitious lining manhole rehabilitated for a standard four-foot diameter manhole measured from the manhole invert to the top of the cementitious lining. Where manhole diameter is greater than standard (i.e., 5' or 6'), the vertical footage will be adjusted to account for the additional square footage of area (i.e., 5' diameter = 1.25 x vertical footage of standard; 6' diameter = 1.50 x vertical footage of standard, etc.). Structures that have other than circular geometric shape shall be adjusted to provide a consistent method of accounting for actual square footage of wall requiring rehabilitation.

203.12 Cementitious Lining Additional Thickness. Payment for cementitious lining additional thickness shall be full compensation for all labor, materials, and equipment necessary including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Additional thickness shall be applied in one-half (1/2) inch increments. Measurement and payment shall be based on the actual number of vertical feet of one-half (1/2) inch, 1 (one) inch, or 1 ½ (one and one half) inch etc., cementitious lining of additional thickness applied over the initial one-half (1/2) inch rehabilitation lining for a standard four-foot diameter manhole measured from the manhole invert to the top of the cementitious lining. Where manhole diameter is greater than standard or the structure is other than circular geometric shape, measurement and payment shall be as per paragraph 203.11 Manhole Rehabilitation Cementitious Lining.

203.13 Manhole Rehabilitation (Epoxy Lining). Payment for epoxy lining shall be full compensation for furnishing & applying epoxy lining to the manhole wall & bench

surfaces including epoxy & preparatory items, all labor, materials, & equipment necessary including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Control of sewage flow to include bypass pumping if necessary shall be as per paragraph 201.06. Measurement for payment shall be based on the actual number of vertical feet of manhole rehabilitated for a standard four-foot diameter manhole measured from the manhole invert to the top of the epoxy lining. Where manhole diameter is greater than standard (i.e., 5' or 6'), the vertical footage will be adjusted to account for the additional square footage of area (i.e., 5' diameter = 1.25 x vertical footage of standard; 6' diameter = 1.50 x vertical footage of standard, etc.). Structures that have other than circular geometric shape shall be adjusted to provide a consistent method of accounting for actual square footage of wall requiring rehabilitation.

203.14 Pavement Removal and Replacement. Payment for pavement removal and replacement shall be full compensation for furnishing all materials, labor, and equipment, sawcut, excavation, backfill, subgrade preparation, and disposal of removed pavement necessary including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Measurement for payment shall be the actual square yards of pavement removed and replaced.

203.15 Traffic Control 1-Lane with Flagman Crew. Payment for traffic control 1-lane with flagman crew shall be full compensation for all barricades, warning signs, flashing lights, channelization, all labor, and equipment necessary including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Measurement and payment shall be the actual count each of the number of manholes requiring a flagman crew.

203.16 Remove & Replace Manhole Inside Drop Piping. Payment for inside drop manhole piping shall be full compensation for all materials, labor, and equipment, anchors, straps, piping, fittings necessary including all incidentals thereto for which separate payment is not provided under any other item in the bid documents. Measurement for payment shall be the actual count each of the number of manholes with inside drop piping regardless of pipe size.