



BIDDING DOCUMENTS

for

WHITEHORSE CREEK DRAINAGE PROJECT LINCOLN COUNTY, NEBRASKA

Prepared for
Platte River Recovery Implementation Program (PRRIP)
Kearney, Nebraska

Prepared by
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September 2013

EA Project Number 1482203
Plan Set No. _____

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ADVERTISEMENT FOR BIDS

The Nebraska Community Foundation, Inc. (Foundation) of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program (Program) will receive sealed bids for the Whitehorse Creek Drainage Project in Lincoln County, Nebraska. These activities are generally described as follows:

Re-grading sections of the road ditch north and south of North River Road, re-grading sections of the road ditch north of East Hall School Road, installing twelve new 24" round equivalent CMP culverts, and lowering six existing culverts.

Sealed bids shall be received at the office of the Platte River Implementation Program located at the following address:

Platte River Recovery Implementation Program
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845

Bids will be accepted by mail or in person at the above address no later than 5 p.m. Central Time on Thursday, October 17, 2013. Bids will also be accepted in person from 1:30 to 2:00 p.m Central time at the location of the bid opening. No bids will be accepted after that time. **Bids will be opened and read aloud beginning at 2:00 p.m. Central time on Friday, October 18, 2013 at the address below.** All bids shall be submitted in accordance with and on the forms included in the bidding documents.

Bid Opening Information:

Time: 2:00 p.m. Central time

Location: Council Chambers, North Platte City Hall
211 W. Third Street, North Platte, NE

Contract Documents, including proposal bid forms, drawings and specifications, have been placed on file and may be examined at the Program Office. Electronic copies of the Contract Documents can be downloaded from the Program website at

<http://www.platteriverprogram.org/contractors> or obtained by email from the Point of Contact identified below:

Justin Brei
Headwaters Corporation
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845
breij@headwaterscorp.com

A **PRE-BID CONFERENCE** will be held on Wednesday, October 9, 2013 at 1:00 p.m. Central time and will be held at the west end of the project site, north of the intersection of North River Road and Washboard Road. Project site location is shown on the construction drawings. **Potential bidders must attend the pre-bid conference.**

No bidder may withdraw its bid after the scheduled time of the bid opening. Bids are to remain open for 60 days after the bid opening.

The Program reserves the right to reject any and all bids or parts thereof, and to waive any irregularities of any bid. The Program also reserves the right to award the contract to such responsible bidders as may be determined by the Program.

Once the contract is awarded, the Program will issue a Notice to Proceed.

END OF SECTION 00010

SECTION 00 21 13 - INSTRUCTIONS TO BIDDERS

1.0 DEFINED TERMS.

Terms used in these Instructions to Bidders which are defined in the General Conditions of the Construction Contract, have the meanings assigned to them in the General Conditions. The term "BIDDER" means one who submits a Bid directly to the OWNER, as distinct from a sub-BIDDER, who submits a bid to a BIDDER. The term "Successful BIDDER" means the lowest, qualified, responsible and responsive BIDDER to whom the OWNER (on the basis of the OWNER's evaluation as hereinafter provided) makes an award. The term "Bidding Documents" includes the Advertisement for Bids, Instructions to Bidders, the Bid Form, Statement of Qualifications, Anticipated Subcontractors, and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

In this section on "Instructions to Bidders", the term BIDDER is used to describe a prospective CONTRACTOR. When the term BIDDER is used, it refers to the company that could become the CONTRACTOR; therefore all requirements of the CONTRACTOR also pertain to the BIDDER, and vice versa.

The OWNER as defined in the General Conditions is the Nebraska Community Foundation, Inc. (FOUNDATION) of Lincoln, Nebraska representing all signatories to the Platte River Recovery Implementation Program (PROGRAM). For this construction contract, the OWNER shall be responsible for the financial aspects; the technical aspects of the construction contract will be the responsibility of the ENGINEER. The ENGINEER for the construction contract is defined as Headwaters Corporation.

2.0 COPIES OF BIDDING DOCUMENTS.

- 2.1 Complete sets of the Bidding Documents may be obtained as stated in the "Advertisement for Bids".
- 2.2 Complete sets of Bidding Documents must be used in preparing Bids. Neither the OWNER nor ENGINEER assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.3 OWNER and ENGINEER, in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids on the Work, and do not confer a license or grant for any other use.

3.0 QUALIFICATIONS OF BIDDERS.

To demonstrate qualifications to perform the Work, each BIDDER must submit with the Bid (or within 48 hours of the Bid) written evidence, such as financial data, previous experience, record of performance on previous projects, equipment, information on their permanent place of business, and other such data as may be called for on the Statement of Qualifications contained in the Bidding Documents. If a BIDDER has not previously completed and submitted a PROGRAM Contractor Prequalification packet, each BIDDER must do so prior to submittal of a bid. Prequalification packets are available on the PROGRAM's website (www.platteriverprogram.org/contractors).

Each BIDDER must be prepared to submit evidence of the BIDDER's qualifications to do business in Nebraska, prior to the Notice of Award.

4.0 LIST OF SUBCONTRACTORS.

Each BIDDER shall submit a list of subcontractors on the form included in the bidding documents with his Bid.

Prior to the award of Contract, the OWNER shall notify the BIDDER if the OWNER, after due investigation, has reasonable objection to any Subcontractor listed and does not accept him. Acceptance of any or all listed Subcontractors by the OWNER does not relieve the CONTRACTOR from any responsibility for its Subcontractors.

5.0 BIDDER INQUIRIES.

All questions regarding the Bid Documents shall be addressed to the ENGINEER in writing or via email. No questions regarding the Bid Documents will be answered by phone. Inquiries shall be directed to:

Justin Brei, P.E.
Headwaters Corporation
4111 4th Ave., Suite 6
Kearney, NE 68845
breij@headwaterscorp.com

All written questions shall be answered in writing and provided to all BIDDERS in possession of a bid package. A current list of questions and answers will be maintained on the Program website during the bidding period at <http://www.platteriverprogram.org/contractors>.

6.0 PRE-BID CONFERENCE AND SITE SHOWING.

To assist BIDDERS with the development of a bid price, the ENGINEER will conduct a Site Showing at the location of the construction project. **Attendance at the Site Showing is mandatory for the submission of a bid. Bids received from BIDDERS who did not attend the Site Showing will not be accepted. BIDDERS must be on time for the Site Showing, and must remain until such time that the Site Showing is completed.**

Interested BIDDERS shall meet for the Site Showing at the time and location stated in the Advertisement for Bids.

7.0 EXAMINATION OF CONTRACT DOCUMENTS AND SITE.

- 7.1 It is the responsibility of each BIDDER, before submitting a Bid, to (a) examine the Contract Documents thoroughly, (b) visit the site to become familiar with local conditions that may affect cost, progress, performance or furnishing of the Work, (c)

consider federal, state and local laws and regulations that may affect cost, progress, performance or furnishing of the Work, (d) study and carefully correlate BIDDER's observations with the Contract Documents, and (e) notify ENGINEER of all conflicts, errors or discrepancies in the Contract Documents.

- 7.2 Information and data reflected in the Contract Documents, with respect to Underground Facilities at or contiguous to the site, is based upon information and data furnished to the ENGINEER by owners of such Underground Facilities or others, and the ENGINEER does not assume responsibility for the accuracy or completeness thereof, unless it is expressly provided otherwise in the Supplementary Conditions.
- 7.3 Provisions concerning responsibilities for the adequacy of data furnished to prospective BIDDERS on subsurface conditions, Underground Facilities and other physical conditions, and possible changes in the Contract Documents, due to differing conditions, appear in the General Conditions and Supplementary Conditions.
- 7.4 The lands upon which the Work is to be performed, rights-of-way and easements for access thereto, and other lands designated for use by the CONTRACTOR in performing the Work, are identified in the Contract Documents. All additional lands, and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by the CONTRACTOR.
- 7.5 The submission of a Bid will constitute an incontrovertible representation by the BIDDER that the BIDDER has complied with every requirement of this Article 7, and that without exception, the Bid is premised upon performing and furnishing the Work required by the Contract Documents, and such means, methods, techniques, sequences or procedures of construction as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

8.0 INTERPRETATIONS AND ADDENDA.

- 8.1 All questions about the meaning or intent of the Contract Documents are to be directed to the ENGINEER. Interpretations or clarifications considered necessary by the ENGINEER in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by the ENGINEER as having received the Bidding Documents. Questions received within five days prior to the date for opening of Bids will normally not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 8.2 Addenda may also be issued to modify the Bidding Documents, as deemed advisable by the OWNER or ENGINEER.

9.0 BID SECURITY.

9.1 NOT REQUIRED.

10.0 CONTRACT TIME.

Due to the nature of the work, BIDDERS must be prepared to complete the work within the time frames contained in the Agreement and Special Provisions of the Bid Documents.

11.0 LIQUIDATED DAMAGES.

Provisions for liquidated damages are set forth in the Agreement.

12.0 SUBSTITUTE OR "OR-EQUAL" ITEMS.

The Contract, if awarded, will be on the basis of materials and equipment described in the Drawings or specified in the Specifications. A substitute or "or-equal" item of material or equipment may be furnished or used by the CONTRACTOR, if acceptable to the ENGINEER. Application for such acceptance will not be considered by the ENGINEER until after the effective date of the Agreement. The procedure for submission of any such application by the CONTRACTOR, and consideration by the ENGINEER, is set forth in paragraph 6.05 of the General Conditions, and may be supplemented in the Supplementary Conditions.

13.0 SUBCONTRACTORS, SUPPLIERS, AND OTHERS.

13.1 If requested by the ENGINEER, the BIDDER shall provide information on the qualifications, experience and financial or other data of any Subcontractors proposed on this project. If ENGINEER, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, other person or organization, they may, before the Notice of Award is given, require the apparent Successful BIDDER to submit an acceptable substitute without an increase in Bid price. If apparent Successful BIDDER declines to make any such substitution, OWNER may award the contract to the next lowest BIDDER that proposes to use acceptable Subcontractors, Suppliers and other persons and organizations. The declining to make requested substitutions will not constitute grounds for sacrificing the Bid security of any BIDDER. Any Subcontractor, Supplier, or other person or organization listed and to whom the OWNER or ENGINEER does not make written objection prior to giving of the Notice of Award will be deemed acceptable to the OWNER and ENGINEER, subject to revocation of such acceptance after the Effective Date of the Agreement as provided in Paragraph 6.06 of the General Conditions.

13.2 No CONTRACTOR shall be required to employ any Subcontractor, Supplier, other person or organization against whom CONTRACTOR has reasonable objection.

14.0 BID FORM.

- 14.1 The Bid Form is included with the Bidding Documents; additional copies may be obtained from the ENGINEER. Bids must be submitted on the forms provided.
- 14.2 All blanks on the Bid Form must be completed in ink or by typewriter. The Bidder must include both unit prices and extended prices. In case of a difference between the unit price and the extended price, the unit price shall be used in computing the total amount of the bid. In case of a difference between the total bid price and the sum of the extended prices, the sum of the extended prices shall govern.
- 14.3 Bids by corporations must be executed in the corporate name by the president or vice president (or other corporate officer accompanied by evidence of authority to sign), and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.
- 14.4 Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature, and the official address of the partnership must be shown below the signature.
- 14.5 All names must be typed or printed below the signature.
- 14.6 The Bid shall contain an acknowledgement of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).
- 14.7 The address, telephone and fax numbers for communications regarding the Bid must be shown.
- 14.8 Work included in each Bid Item is as covered in the discussion on Measurement and Payment in each applicable section of the Construction Specifications.

15.0 SUBMISSION OF BIDS.

Contractors shall submit sealed proposals to the Platte River Recovery Implementation Program Office located at the following address:

**Platte River Recovery Implementation Program
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845.**

Bids will be placed in a sealed envelope marked “**Whitehorse Drainage Project**” and must include the Contractors name, contact person, address and phone number clearly visible on the exterior of the envelope.

All bids must be submitted on the Bid Form provided in this document and accompanied by the Bid Security and other required documents. Bid Forms must include an original signature(s). Unsigned Bid Forms or bids not provided on the Bid Form will be

automatically rejected.

All bids must be delivered to the PROGRAM Office no later than the date and time shown in the Advertisement for Bids. Faxed bids will not be accepted.

16.0 MODIFICATION AND WITHDRAWAL 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 time of opening of Bids, as called for in the Advertisement for Bids. No BIDDER may withdraw his Bid for a period as specified in the Advertisement for Bids after the date and hour set for the opening declared therein.

17.0 OPENING OF BIDS.

Bids will be opened and read aloud publicly. An abstract of the amounts of the Bids will be made available to BIDDERS within one week after the opening of Bids.

18.0 BIDS TO REMAIN SUBJECT TO ACCEPTANCE.

All bids will remain subject to acceptance for sixty days (60) after the day of the Bid Opening, but the OWNER may, in its sole discretion, release any Bid, and return the Bid Security prior to that date.

19.0 AWARD OF CONTRACT.

- 19.1 The PROGRAM reserves the right to reject any and all Bids, to waive any and all informalities not involving price, time, or changes in the Work, to negotiate contract terms with the successful BIDDER, and to disregard all nonconforming, nonresponsive, unbalanced, or conditional Bids. Also, the PROGRAM reserves the right to reject the Bid of any BIDDER if the PROGRAM believes that it would not be in the best interest of the project to make an award to that BIDDER, whether because the Bid is not responsive or the BIDDER is unqualified, or of doubtful financial ability, or fails to meet any other pertinent standard or criteria established by the PROGRAM. Discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures, and the correct sum thereof, will be resolved in favor of the correct sum.
- 19.2 In evaluating Bids, the PROGRAM will consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form, or prior to the Notice of Award.
- 19.3 PROGRAM may conduct such investigations as the OWNER deems necessary to assist in the evaluation of any Bid, and to establish the responsibility,

qualifications and financial ability of BIDDERS, proposed Subcontractors, Suppliers, and other persons and organizations to perform and furnish the Work in accordance with the Contract Documents to the PROGRAM's satisfaction within the prescribed time. The PROGRAM may also use previous experience with the BIDDER in evaluating qualifications.

- 19.4 If the Contract is to be awarded, it will be awarded to the lowest responsible, responsive BIDDER, whose evaluation by the PROGRAM indicates to PROGRAM that the award will be in the best interests of the Project.

20.0 CONTRACT SECURITY.

NOT REQUIRED.

21.0 INSURANCE CERTIFICATES.

The successful BIDDER shall be required to furnish, with the executed Agreement, Insurance Certificates called for in the Supplementary Conditions.

22.0 SIGNING OF AGREEMENT.

When the PROGRAM gives a Notice of Award to the successful BIDDER, it will be accompanied by the required number of unsigned counterparts of the Agreement with all other written Contract Documents attached. Within five (5) days thereafter, the CONTRACTOR shall sign and deliver the required number of counterparts of the Agreement and attached documents to the PROGRAM with the required Bonds. Within five (5) days thereafter, the PROGRAM shall deliver one fully signed counterpart to the CONTRACTOR. No contract shall be considered as effective until it has been fully executed by all parties.

If the BIDDER to whom the Notice of Award is given does not properly execute the Agreement within the time allowed, the PROGRAM may withdraw the Notice of Award, and the BIDDER will forfeit his Bid Security.

Following the execution of the Contract by the OWNER and the CONTRACTOR, written Notice to Proceed with the Work shall be given by the PROGRAM to the CONTRACTOR. The Contract Time will commence to run with the Notice to Proceed. A Notice to Proceed may be given at any time within thirty days after the effective date of the Agreement.

23.0 SALES AND USE TAXES.

The CONTRACTOR must pay all State Sales and Use Tax on materials and equipment to be incorporated in the Work.

24.0 RETAINAGE.

Provisions concerning retainage are set forth in the Agreement.

25.0 STATE LAWS AND REGULATIONS.

All applicable laws, ordinances and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout.

END OF SECTION

Project Identification: Whitehorse Creek Drainage Project.

This Bid is submitted to:

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM
4111 4th Avenue, Suite 6
KEARNEY, NEBRASKA 68845

On behalf of: Nebraska Community Foundation, Inc.

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with the OWNER, in the form included in the Contract Documents, to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price, and within the Contract Time indicated in this Bid, and in accordance with the other terms and conditions of the Contract Documents.
2. The BIDDER accepts all of the terms and conditions of the Advertisement for Bids, and Instructions to Bidders, including without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for sixty (60) days after the day of the Bid Opening. The BIDDER will sign and submit the Agreement with the Construction Performance Bond and Payment Bond, and other documents required by the Bidding Requirements, within five (5) days after the date of the Notice of Award.
3. In submitting this BID, BIDDER represents, as more fully set forth in the Agreement, that:
 - (a) BIDDER has examined copies of all the Bidding Documents, and of the following Addenda (receipt of all which is hereby acknowledged):

NUMBER

DATE

- (b) BIDDER has familiarized itself with the nature and extent of the Contract Documents, work, work site, locality, and all local conditions, regulations and permits, local laws or ordinances that in any manner may affect cost, progress, performance, or furnishing of the Work.
- (c) BIDDER has given the ENGINEER written notice of all conflicts, errors, or discrepancies that it has discovered in the Contract Documents, and the written resolution thereof by the ENGINEER is acceptable to the BIDDER.
- (d) This Bid is genuine and not made in the interest of, or on 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; the BIDDER has not directly or indirectly induced or solicited any other BIDDER to submit a false or sham Bid; the BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and the BIDDER has not sought, by collusion, to obtain for itself any advantage over any other BIDDER or over the OWNER.

4. The BIDDER agrees to perform all the Work described in the Contract Documents and on the following Bid Schedule. The Method of Measurement and Payment shall be as stated in the applicable specifications.
5. The BIDDER hereby agrees to accept an award of a contract for the Bid Schedule as determined under Section 00 21 13 – Instructions to Bidders, paragraph 19.
6. The BIDDER agrees that the unit prices shall govern in checking the bid, and, should a discrepancy exist in the sum of extended prices and Total Amount of Bid after extensions are checked and corrections made, if any, the sum of extended prices shall be used in considering the award of this Contract.
7. The BIDDER will complete the Work for the following unit or lump sum prices(s):

Bid Schedule					
No.	Item	Unit	Estimated In Place Quantity	Unit Price	Total Price
1	Mobilization/ Demobilization	LS	1	\$	\$
2	Excavation and Disposal	LS	1	\$	\$
3	Replace or Lower CMP Culvert	EA	18	\$	\$
4	Seeding and Mulching (2.5 Acres)	LS	1	\$	\$
5	Turf Reinforcement Mat	SY	1020	\$	\$
Total					\$

8. The BIDDER understands that the OWNER reserves the right to reject any or all bids or to waive any informality or technicality in any proposal in the interest of the OWNER. If an award is made, it will be made to the lowest bidder that is determined qualified and responsible at the sole discretion of the OWNER.

9. BIDDER agrees that the Work, Whitehorse Creek Drainage Project, will be substantially complete in accordance with paragraph 3.1 of the Agreement. BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.
10. The following documents are attached to and made a condition of this bid:
(a) None
11. Communications concerning this Bid shall be addressed to:
Contractor _____
Address _____
City/State/Zip _____
Phone _____
Fax _____
E-mail _____
12. The terms used in this Bid, which are defined in the General Conditions and Supplementary Conditions of the Construction Contract included as part of the Contract Documents, have the meanings assigned to them in the General Conditions and Supplementary Conditions.

SUBMITTED ON _____, 20____

BY _____
Name (Individual, Partnership, Corporation, or Joint Venture)

(State of Residency)

BY _____
(Name of Person Authorized to Sign) (Signature and Printed)

(Title)

Corporate Seal (If Applicable)

Attest _____
(Secretary)

Business Address: _____

Phone No.: _____ Fax No.: _____

License No.: _____

ANTICIPATED SUBCONTRACTORS

1. Type of Work to be Sublet _____

Approximate Dollar Amount of Subcontract \$ _____
Probable Subcontractor _____
Address _____
2. Type of Work to be Sublet _____

Approximate Dollar Amount of Subcontract \$ _____
Probable Subcontractor _____
Address _____
3. Type of Work to be Sublet _____
Approximate Dollar Amount of Subcontract \$ _____
Probable Subcontractor _____
Address _____

Statement of Qualifications: The CONTRACTOR shall submit a statement of the subcontractor's qualifications and shall obtain written permission from the OWNER prior to the actual subletting or assignment of any portion of the contract as per Section 6.06 of the General Conditions.

PREVIOUS EXPERIENCE OF BIDDER

SIMILAR PROJECTS COMPLETED (List at least three)

1. DATE _____ VALUE _____
Name of Project, Address, Type of Improvement _____

Name/Phone of Owner _____
Name/Phone of Engineer _____

2. DATE _____ VALUE _____
Name of Project, Address, Type of Improvement _____

Name/Phone of Owner _____
Name/Phone of Engineer _____

3. DATE _____ VALUE _____
Name of Project, Address, Type of Improvement _____

Name/Phone of Owner _____
Name/Phone of Engineer _____

SIMILAR PROJECTS UNDER CONTRACT (List at least one)

DATE _____ VALUE _____

Name of Project, Address, Type of Improvement _____

Name/Phone of Owner _____

Name/Phone of Engineer _____

END OF SECTION

NOTICE OF AWARD

Dated _____

TO: _____

(BIDDER)

ADDRESS: _____

PROJECT: Whitehorse Creek Drainage Project

You are notified that your Bid dated _____ for the above Contract has been considered. You are the apparent successful bidder and have been awarded a contract for the work to include:

Re-grading sections of the road ditch north and south of North River Road, re-grading sections of the road ditch north of East Hall School Road, installing twelve new 24" round equivalent CMP culverts, and lowering six existing culverts.

The Amount of your Contract is _____

Three copies of each of the proposed Contract Documents accompany this Notice of Award. Also included are three copies of the Contract Agreement.

You must comply with the following within five (5) days of the date of this Notice of Award:

1. Deliver to the ENGINEER three fully executed counterparts of the Agreement.
2. Deliver the required Insurance Certificates and Performance and Payment Bonds as specified in the Contract Documents.
3. (List other conditions) _____

Failure to comply with these conditions within the time specified will entitle OWNER to consider your bid abandoned, to annul this Notice of Award and to declare your Bid Security forfeited.

Within five (5) days after you comply with those conditions, OWNER will return to you one fully signed counterpart of the Agreement with the Contract Documents attached.

Please acknowledge your receipt of this notice in the space provided below and return a copy along with any and all future project correspondence to Platte River Recovery Implementation Program, 4111 4th Avenue, Suite 6, Kearney, Nebraska 68845

By: Program

(Owner's Authorized Representative)

Title

Receipt Acknowledged:

By: _____

Representative

Title

Date

THIS AGREEMENT is dated as of the _____ day of _____ in the year 2013, by and between the Nebraska Community Foundation, Inc. (hereinafter called OWNER) representing all signatories to the Platte River Recovery Implementation Program (PROGRAM), and _____ (hereinafter called CONTRACTOR). The following persons are authorized to represent the parties through this Agreement: Diane Wilson representing the OWNER, Dr. Jerry Kenny representing the PROGRAM; and _____ representing the CONTRACTOR.

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK.

CONTRACTOR shall complete all Work as specified or indicated in the Contract. The Work is generally described as follows:

Re-grading sections of the road ditch north and south of North River Road, re-grading sections of the road ditch north of East Hall School Road, installing twelve new 24" round equivalent CMP culverts, and lowering six existing culverts.

ARTICLE 2. ENGINEER.

Headwaters Corporation will serve as the ENGINEER. The ENGINEER may in writing designate a representative(s) who shall carry out the ENGINEER's functions as set forth in the Contract Documents. In all cases as provided for in this Agreement, the powers, authorities, rights and responsibilities of the ENGINEER shall also extend to the ENGINEER's representative(s).

ARTICLE 3. CONTRACT TIME.

- 3.1 Substantial Completion. Substantial Completion of all Work is to be completed as soon as possible following issuance of the Notice to Proceed, and shall be completed no later than **December 6, 2013**.
- 3.2 Final Completion. Final Completion of all Work shall be completed no later than **December 20, 2013**.
- 3.3 In determining whether an extension of time will be granted, consideration will be given to unusual weather conditions that may delay the completion of the Work, providing the CONTRACTOR has notified the OWNER, in writing, that an extension of time is needed.
- 3.4 Liquidated Damages. The OWNER and CONTRACTOR recognize that time is of the essence of this Agreement, and that the OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 3.1 above, plus any extensions thereof

allowed, in accordance with Article 12 of the General Conditions. They also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by the OWNER if the Work is not completed on time.

Accordingly, instead of requiring any such proof, the OWNER and CONTRACTOR agree that, as liquidated damages for delay, (but not as a penalty), the CONTRACTOR shall pay the OWNER \$500.00 for each calendar day that expires after the time specified in paragraph 3.1 for Substantial Completion, until the Work is substantially complete. After Substantial Completion, if the CONTRACTOR shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by the OWNER, the CONTRACTOR shall pay the OWNER \$500.00 for each calendar day that expires after the time specified in paragraph 3.1 for final completion and readiness for final payment of all work.

The provisions in Section 3.3 regarding declaration of weather shutdown and suspension of counting days shall apply to this section.

ARTICLE 4. CONTRACT PRICE.

The OWNER shall pay the CONTRACTOR for completion of the Work, in accordance with the Contract Documents according to the Bid, which is attached as an Exhibit. The total awarded sum is \$ _____. The total price can vary due to the actual quantities of the unit price items installed, or due to Change Orders. Measurement and payment for bid items shall be per information provided in the applicable specifications.

ARTICLE 5. PAYMENT PROCEDURES.

The CONTRACTOR shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by the ENGINEER, as provided in the General Conditions.

- 5.1 A semi-final payment will be made only upon substantial completion of all work. Substantial completion shall have been achieved when, based upon the recommendation of the ENGINEER, all work required in the Contract Documents has been completed with the exception of minor corrections or adjustments.

The amount of the semi-final payment to be provided will be the balance of the amount remaining under the Contract minus two times the value of any items remaining to be corrected or adjusted as well as any amount necessary to satisfy any claims, liens or judgments against the CONTRACTOR which have not been suitably discharged.

Upon satisfactory completion of the corrections and/or adjustments, the PROGRAM shall, upon receipt of a requisition approved by the OWNER, promptly pay these items. The PROGRAM shall retain any funds as may be required to satisfy claims, liens and judgments against the CONTRACTOR arising in connection with of the project and which have not been suitably discharged.

Reduction of the balance of the amount due under the Contract, does not relieve the CONTRACTOR of the responsibility for corrective work or adjustments required during the guarantee period.

Prior to issuance of the semi-final payment, the CONTRACTOR shall furnish to the OWNER (on forms supplied in the Bidding Documents), a sworn statement that all materials, labor, equipment etc. that have been furnished performed or otherwise included under the Contract, have been paid for. In the event all CONTRACTOR costs have not been paid, the CONTRACTOR must provide a statement of the balance due to each and every supplier of labor, materials, equipment, etc.

If required by the OWNER, the CONTRACTOR shall provide similar statements from Subcontractors or suppliers, etc. to the same effect that they have paid for all labor, materials etc. furnished by them and used in connection with the Contract or a statement of any unpaid balances.

- 5.2 Final Payment will be made upon certification issued by the OWNER, in consultation with the ENGINEER, that all work has been completed in accordance with the Contract and upon proof that any claims, liens or judgments have been suitably discharged.

The PROGRAM shall make the final payment promptly upon receipt of a Certification of Final Completion from the ENGINEER, and signed by the CONTRACTOR and OWNER.

ARTICLE 6. CONTRACTOR'S REPRESENTATIVES

In order to induce the OWNER to enter into this Agreement, the CONTRACTOR makes the following representations:

- 6.1 CONTRACTOR has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance, or furnishing of the Work.
- 6.2 CONTRACTOR has studied carefully all reports of investigations and tests of latent physical conditions at the site or otherwise affecting cost, progress or performance of the Work which were relied upon by ENGINEER in the preparation of the Drawings and Specifications and which have been identified in the Contract Documents.
- 6.3 CONTRACTOR has made or caused to be made examinations, investigations and tests and studies of such reports and related data in addition to those referred to above as he deems necessary for the performance of the Work at the Contract Price, within the Contract Time, and in accordance with the other terms and conditions of the Contract Documents; and no additional examinations, investigations, tests, reports or similar data are or will be required by CONTRACTOR for such purposes.
- 6.4 CONTRACTOR has correlated the results of all such observations, examinations, investigations, tests, reports and data with the terms and conditions of the Contract Documents.
- 6.5 CONTRACTOR has carefully reviewed and checked all information and data shown or indicated on the Contract Documents, with respect to existing Underground Facilities at or

contiguous to the site, and assumes responsibility for the accurate location of said Underground Facilities.

- 6.6 CONTRACTOR has given ENGINEER written notice of all conflicts, errors, or discrepancies that he has discovered in the Contract Documents, and the written resolution thereof by the ENGINEER is acceptable to the CONTRACTOR.

ARTICLE 7. CONTRACT DOCUMENTS

The Contract Documents, which comprise the entire agreement between the OWNER and the CONTRACTOR concerning the Work, consists of the following:

- 7.1 This Agreement
- 7.2 Certificates of Substantial and Final Completion, Affidavit on Behalf of Contractor, and Final Waiver of Lien.
- 7.3 Notice of Award and Notice to Proceed.
- 7.4 Storm Water Pollution Prevention Plan
- 7.5 General Conditions and Supplementary Conditions to the General Conditions.
- 7.6 General Requirements, Construction Specifications, and Special Provisions
- 7.7 Drawings and Details.
- 7.8 Addenda listed on the Bid forms.
- 7.9 Supplemental Sheets and Attachments
There are no other Supplemental Sheets and Attachments.
- 7.10 CONTRACTOR'S executed Bid forms.
- 7.11 Any Modification, including Change Orders, duly delivered after execution of Agreement.

There are no Contract Documents, other than those listed above, in this Article 7. The Contract Documents may only be amended, modified, or supplemented, as provided in Article 3 of the General Conditions.

The Contract Documents listed above are intended to be complementary and to describe and provide for a complete work. The CONTRACTOR will not take advantage of an apparent error or omission in the plans and specifications. If the CONTRACTOR discovers such an error or omission, he will immediately notify the ENGINEER. The ENGINEER will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the Contract Documents.

ARTICLE 8. MISCELLANEOUS

- 8.1 Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.
- 8.2 No assignment by a party hereto of any rights under, or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically, but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.
- 8.3 The OWNER and the CONTRACTOR each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.
- 8.4 The OWNER has delegated signature authority to the PROGRAM for the Notice of Award, Notice to Proceed and Substantial Completion Forms. The OWNER retains signature authority for the Agreement and Final Completion Forms.

ARTICLE 9. OTHER PROVISIONS.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in triplicate. One counterpart each has been delivered to OWNER, CONTRACTOR, and ENGINEER. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or by ENGINEER on their behalf.

This Agreement will be effective on _____, 20__.

OWNER:

CONTRACTOR:

By: _____

By: _____

Title: _____

Title: _____

(CORPORATE SEAL)

Attest: _____

Attest: _____

Address for giving notices:

Address for giving notices:

License No. _____

Agent for service of process:

(If the CONTRACTOR is a corporation, attach evidence of authority to sign).

END OF SECTION

NOTICE TO PROCEED

TO: _____ DATED: _____
(CONTRACTOR)

ADDRESS: _____

PROJECT NAME: Whitehorse Creek Drainage Project

OWNER'S CONTRACT NO.: _____

You are notified that the Contract Time under the above contract will commence to run on _____. By that date, you are to start performing your obligations under the Contract Documents. In accordance with Article 3 of the Agreement, the date of Substantial Completion is December 6, 2013, the date of completion and readiness for final payment is December 20, 2013 (completion dates may be subject to need for weather shutdown).

Before you may start any Work at the site, you must (add requirements):

Program

By: _____
(Owner's Authorized Representative)

(ENGINEER)

SECTION 00 65 16 – CERTIFICATE OF SUBSTANTIAL COMPLETION

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project: Whitehorse Creek Drainage Project

CONTRACTOR: _____ ENGINEER: _____

Contract For: _____ Contract Date: _____

This Certificate of Substantial Completion applies to Work under the Contract Documents, or to the following specified parts thereof:

To: Nebraska Community Foundation, Inc. (OWNER)

And to: _____
CONTRACTOR

The Work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on:

DATE OF SUBSTANTIAL COMPLETION

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be complete or corrected by CONTRACTOR within _____ days of the above date of Substantial Completion.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as follows:

RESPONSIBILITIES:

OWNER: _____

CONTRACTOR: _____

The following documents are attached to and made a part of this Certificate:

SECTION 00 65 16 – CERTIFICATE OF SUBSTANTIAL COMPLETION

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER on _____, 20____

(Engineer)

By _____
(Authorized Signature)

CONTRACTOR accepts this Certificate of Substantial Completion on _____, 20____

(Contractor)

By _____
(Authorized Signature)

OWNER accepts this Certificate of Substantial Completion on _____, 20____

Program

By _____

SECTION 00 65 16 – CERTIFICATE OF FINAL COMPLETION

CERTIFICATE OF FINAL COMPLETION

Project: Whitehorse Creek Drainage Project

CONTRACTOR: _____ ENGINEER: _____

Contract For: _____ Contract Date: _____

This Certificate of Final Completion applies to Work under the Contract Documents, or to the following specified parts thereof:

To: Nebraska Community Foundation, Inc. (Owner)

And To _____
(Contractor)

The Work to which this Certificate applies has been inspected by authorized representatives of the OWNER, CONTRACTOR, and ENGINEER, and that Work is hereby declared to be complete in accordance with the Contract Documents on:

(Date of Final Completion)

The Affidavit on Behalf of Contractor is attached to and made a part of this Certificate.

Executed by ENGINEER on _____, 20__

(Engineer)

By: _____
(Authorized Signature)

CONTRACTOR accepts this Certificate of Final Completion on _____, 20__

(Contractor)

By: _____

OWNER accepts this Certificate of Final Completion on _____, 20__

(Nebraska Community Foundation, Inc.)

By: _____

SECTION 00 65 19.13 – AFFIDAVIT ON BEHALF OF CONTRACTOR

AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF _____

COUNTY _____

CITY _____

DATE _____

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT ALL WORK HAS BEEN performed and materials supplied in strict accordance with the terms and conditions of the corresponding Contract Documents between NEBRASKA COMMUNITY FOUNDATION, INC., the OWNER, AND _____ THE CONTRACTOR, DATED _____ for the Whitehorse Creek Drainage Project.

And further declare that all bills, for materials, supplies, utilities and for all other things furnished or caused to be furnished by the above named CONTRACTOR and used in the execution of the above contract have been fully paid, and that there are no unpaid claims or demands of State Agencies, sub-contractors, material men, mechanics, laborers or any other resulting from or arising out of any work done or ordered to be done by said CONTRACTOR under the above identified contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the CONTRACTOR releases and forever discharges the OWNER from any and all obligations and liabilities arising by virtue of said contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the OWNER, arising out of or in any way relating to said contract and authorized changes.

This statement is made for the purpose of inducing the OWNER to make FINAL PAYMENT under the terms of the Contract, relying on the truth and statement contained therein.

CONTRACTOR: _____ DATE: _____

ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____

SIGNATURE AND PRINTED NAME _____

TITLE: _____

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____
20 _____ .

NOTARY PUBLIC _____
My Commission Expires: _____

FINAL WAIVER OF LIEN

To All Whom It May Concern:

WHEREAS, the undersigned has been employed by _____ (Contractor) to furnish labor and/or materials for work, under a contract **DATED** _____ for the Whitehorse Creek Drainage Project (Project) in Lincoln County, **STATE OF** Nebraska of which the Nebraska Community Foundation, Inc. is the Owner.

NOW, THEREFORE, this _____ day of _____, 20____, for and in consideration of the sum of _____

Dollars paid simultaneously herewith (if any payment is due at this time), 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 to become due from the OWNER, on account of labor, services, material, fixtures, 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.

_____(SEAL)
(Name of Sole Ownership, Corporation
Partnership)

Affix Corporate
Seal here

_____(SEAL)
(Signature of Authorized Representative)

Printed Name

Title

SECTION 00 73 00 - SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the 2002 Edition of the Standard General Conditions of the Construction Contract Documents (Section 00700) as indicated below. All provisions, which are not so amended or supplemented, remain in full force and effect.

SC-1.01 Definitions

The terms used in these Supplementary Conditions are defined in the Standard General Conditions.

Add the following language at the end of the definition of "Agreement":

The definition of the word "Contract" is synonymous with the word "Agreement" and is used interchangeably in the Contract Documents.

Add the following language at the end of the definition of "Drawings":

The definition of the word "plans" is synonymous with the word "drawings" and is used interchangeably in the Contract Documents.

SC-2.01B Bonds and Insurance

Delete paragraph 2.01 B in its entirety.

SC-2.02 Copies of Documents

Amend the first sentence of paragraph 2.02 to read as follows:

OWNER shall furnish to CONTRACTOR up to five copies of the Contract Documents as are reasonably necessary for the execution of the Work. Additional copies will be furnished, upon request, at the cost of reproduction.

SC-2.06 Preconstruction Conference

Add two new paragraphs immediately after paragraph 2.06 which read as follows:

A list of supervisory and responsible-in-charge personnel working on the project shall be provided by the CONTRACTOR for the Preconstruction Conference.

The CONTRACTOR shall also submit at least one name who will be the CONTRACTOR's representative to respond to emergency conditions. CONTRACTOR shall provide the ENGINEER with the representative's telephone number prior to commencement of construction.

SC-2.07 Initial Acceptance of Schedules

Delete the first sentence of 2.07A in its entirety and insert the following in its place:

Prior to the first application for payment, all schedules and documents identified in paragraph 2.05 shall be finalized and acceptable to the ENGINEER and OWNER. No progress payment

shall be made to CONTRACTOR until the schedules are submitted to and acceptable to ENGINEER and OWNER.

SC-3.01 Contract Documents Intent:

Add the additional paragraphs to 3.01A:

The CONTRACTOR shall not take advantage of an apparent error or omission in the Contract Documents. If a discrepancy is discovered, the CONTRACTOR is to notify the ENGINEER for an interpretation and correction. The following will be the governing order for conflicts discrepancies:

1. Plans (Details over other plans)
2. Specifications (Divisions in order)

Any Work that may reasonably be inferred from the Specifications or Drawings as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials, or equipment described in words which so applied have a well-known technical or trade meaning shall be deemed to refer to such recognized standards.

SC-4.01A Availability of Lands

Delete paragraph 4.01A in its entirety and insert the following in its place:

The CONTRACTOR shall confine his construction operations to the immediate vicinity of the location shown on the drawings, and shall use due care in placing construction tools, equipment, excavated materials, and materials to be installed, and supplies, so as to cause the least possible damage to property and interference with traffic and property, and to stay within the OWNER's property or easements obtained for the project.

If it is necessary or desirable that the CONTRACTOR use land outside of the OWNER's easement, the CONTRACTOR shall obtain consent from the OWNER and tenant of the land. The CONTRACTOR shall not enter for materials delivery or occupy for any other purpose with men, tools, equipment, construction materials, or with materials excavated from the site, any private property outside the designated construction easement boundaries without written permission from the landowner.

SC-4.01B Availability of Lands

Delete paragraph 4.01B in its entirety.

SC-4.06 Hazardous Environmental Condition on Site

Delete Section 4.06 in its entirety.

SC-5.03A Certificates of Insurance

Certificates of insurance shall be conveyed to the OWNER.

SC-5.03B Certificates of Insurance

Delete paragraph 5.03B in its entirety.

SC-5.04 Contractor's Insurance

Amend the insurance requirements of Paragraph 5.04 by adding the following:

The limits of liability for the insurance required by Paragraph 5.04 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by law or regulations:

1. Workers' Compensation under 5.04.A.1 and 5.04.A.2:
 - A. State Statutory
 - B. Applicable Federal (e.g. Longshoreman's) Statutory
 - C. Employer's Liability \$1,000,000
 - D. Workers Compensation Insurance shall include an "All States" endorsement.
2. Commercial General Liability under 5.04.A.3 - 5.04.A.5:
 - A. GENERAL AGGREGATE \$2,000,000
 - B. Products - Completed Operations (Aggregate) \$2,000,000
 - C. Bodily Injury and Property Damage
\$1,000,000 Each Occurrence
\$2,000,000 Annual Aggregate
 - D. Coverage will Include:
 1. Premises - Operations
 2. Operations of Independent Contractors
 3. Products and Completed Operations
 4. Contractual
 5. Personal Injury
 6. Broad Form Property Damage will include explosion, collapse and underground coverages where applicable.
 - E. Commercial General Liability Insurance may be satisfied by primary insurance or a combination of primary and excess or "umbrella" insurance. Primary occurrence limit cannot be less than \$2,000,000.
 - F. Include umbrella liability coverage for \$1,000,000 (may include with E above, if umbrella policy is used there).
3. Commercial Automobile Liability under 5.04.A.6 (include "all owned", "hired" and "non-owned"):

Bodily Injury:	
<u>\$1,000,000</u>	Each Person
<u>\$1,000,000</u>	Each Occurrence
Property Damage:	
<u>\$1,000,000</u>	Each Occurrence

or a combined single limit of \$1,000,000.

4. Add a new paragraph at the end of Paragraph 5.04B.1 as follows:

The CONTRACTOR'S insurance coverage shall name the OWNER and ENGINEER as additional insured under Commercial General Liability, Automobile Liability, Excess or Umbrella policies.

In addition to being named as an additional insured on the above policies the CONTRACTOR shall purchase and maintain a separate \$1,000,000 protective liability policy covering OWNER and ENGINEER.

5. The Contractual Liability coverage required by 5.04.B.4 of the General Conditions shall provide for not less than the following limits:

<u>\$1,000,000</u>	Each Occurrence
<u>\$2,000,000</u>	Annual Aggregate

SC-5.04B.5 Cancellation Notice:

Amend paragraph 5.04B5 by deleting the words "thirty days" and replacing them with the words "45 days" and as so amended paragraph 5.04B5 remains in effect.

SC-5.04B Qualifications of Insurance Company

Add a new paragraph immediately after paragraph 5.04B7 which reads as follows:

5.04B.8. Without limiting any of the other obligations or liabilities of the CONTRACTOR, CONTRACTOR shall secure and maintain such insurance from an insurance company (or companies) licensed to write insurance in Nebraska, with minimum "A. M. Best Rating" of B+, VI, as will protect himself, his subcontractors, the OWNER and the ENGINEER and their respective agents and employees and ENGINEER'S Consultants from claims for bodily injury, death or property damage which may arise from operations and completed operations under this Agreement. Such coverage shall be written for claims arising out of all premises/operations, subcontracted operations, products/completed operations, and all liability assumed by the CONTRACTOR under any contract or agreement. CONTRACTOR shall not commence work until required insurance has been obtained and certificate of insurance, with binders or certified copies of insurance policies have been filed with the OWNER, ENGINEER and named Additional Insureds.

SC-5.05 Owner's Liability Insurance

Delete paragraph 5.05 in its entirety and insert the following in its place:

The CONTRACTOR shall obtain and pay the entire premium for Owners Protective Liability Coverage to protect the OWNER and ENGINEER for their liability against claims that may arise from operations under this Agreement.

SC-5.06 Property Insurance

Delete Paragraph 5.06A in its entirety and insert the following in its place:

1. CONTRACTOR shall purchase and maintain property insurance upon the work at the site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in these Supplementary Conditions or required by Laws and Regulations). This insurance shall:
 - A. include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other persons or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured;
 - B. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss and damage to the Work, temporary buildings, falsework, materials and equipment, and Work in transit and shall insure against at least the following perils: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, and other perils as may be specifically required by the Supplementary Conditions;
 - C. include expenses incurred in the repair or replacement of any insured property (including but not limited to the fees and charges of engineers and architects);
 - D. cover materials and equipment in transit for incorporation in the Work or stored at the site or at another location prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by ENGINEER; and
 - E. be endorsed to allow occupancy and partial utilization of the Work by OWNER;
 - F. include testing and start-up; and
 - G. be maintained in effect throughout the life of the Agreement unless otherwise agreed to in writing by OWNER, CONTRACTOR, and ENGINEER with 45-days written notice to each other additional insured to whom a certificate of insurance has been issued.
2. CONTRACTOR shall be responsible for any deductible or self-insured retention.
3. The policies of insurance required to be purchased and maintained by CONTRACTOR in accordance with this paragraph 5.06A shall comply with the requirements of 5.06C. The qualifications of the insurance company shall comply with the requirements of 5.02A.

SC-5.06B&E Property Insurance

Delete paragraphs 5.06B and E in their entirety.

SC-5.07 Waiver of Rights

Delete Section 5.07 in its entirety.

SC-5.08 Receipt and Application of Insurance Proceeds

Delete Section 5.08 in its entirety.

SC-5.09 Acceptance of Insurance

Add the following paragraph at the end of Section 5.09:

Failure of the OWNER to object to the coverage of CONTRACTOR'S insurance within the time provided, shall not relieve CONTRACTOR from his obligation to provide insurance that complies with the contract documents.

SC-5.10 Partial Utilization

Delete Paragraph 5.10 in its entirety.

SC-6.04A Progress Schedule

Add the following Paragraph 3 to 6.04A:

3. CONTRACTOR shall submit to ENGINEER with each application for payment an updated progress schedule reflecting the amount of work completed and adjustments to future work. Such adjustments will be acceptable to ENGINEER as providing an orderly progression of the Work to completion within any specified milestones and the Contract Time. No progress payment will be made to CONTRACTOR until the updated schedules are submitted to and acceptable to ENGINEER and OWNER. Review and acceptance of progress schedules by the ENGINEER will neither impose on ENGINEER responsibility for the sequencing, scheduling or progress of the Work, nor interfere with or relieve CONTRACTOR from CONTRACTOR'S full responsibility therefore. If the CONTRACTOR is behind schedule, he shall submit a plan for getting back on schedule.

SC-6.06B Subcontractors

Add the following paragraph at the end of Section 6.06B.

The Bidder to whom the Contract may be awarded shall submit to OWNER and ENGINEER a list of all proposed subcontractors, manufacturers and suppliers of principal items of equipment and materials, as detailed herein, within 5 days after the day of the Bid Opening, if requested by the ENGINEER. The list shall identify all proposed Subcontractors and which items of work, or components of the project, on which that Subcontractor will work. CONTRACTOR shall submit to OWNER, upon request, a copy of all appropriate agreements between CONTRACTOR and its Subcontractors. Said agreements are to be provided to OWNER, who assumes no responsibility for the form and content of subcontract agreements.

Add a new paragraph H at the end of Section 6.06 which reads as follows:

Any subcontractor or material man entitled to the protection of a bond or other form of guarantee approved by the OWNER shall give notice of his right to that protection to the prime CONTRACTOR. Failure to give notice to a prime CONTRACTOR who has complied with subsections (e) and (f) of this article waives the subcontractor or material man's protection under the bond or guarantee and waives any right to a lien for materials or services provided.

- (a) The notice shall be given no later than sixty (60) days after the date on which services or materials are first furnished.
- (b) The notice shall be sent to the prime CONTRACTOR by certified mail or delivered to and receipted by the prime CONTRACTOR or his agent. Notice by certified mail is effective on the date the notice is mailed.
- (c) The notice shall be in writing and shall state that it is a notice of a right to protection under the bond or guarantee. The notice shall be signed by the subcontractor or material man and shall include the following information.
 - (i) The subcontractor or material man's name, address and phone number and the name of a contact person;
 - (ii) The name and address of the subcontractor's or material man's vendor; and
 - (iii) The type or description of the materials or services provided.
- (d) This section shall only apply where the prime CONTRACTOR's contract is for fifty thousand dollars (\$50,000) or more.
- (e) The prime CONTRACTOR shall post on the construction site a prominent sign stating that any subcontractor or material man shall give notice to the prime CONTRACTOR of a right to protection under the bond or guarantee and that failure to provide this notice shall waive the subcontractor or material man's protection under the bond or guarantee and shall waive any right to a lien for materials or services provided.
- (f) The OWNER or his agent shall provide written notice of the information required by this section in the project specifications.

Add a new paragraph I at the end of Section 6.06 which reads as follows:

By submitting a bid or proposal to the Contractor, every prospective subcontractor and materialman acknowledges that their sole claim for non-payment for Work performed on the Project shall be to assert a claim against the Labor and Materials Payment Bond in accordance with the terms of the Contract Documents and that all other claims against the Owner, the real property upon which the Project is located, or the owner of such property are expressly waived. This provision shall be effective notwithstanding the use of the term "lien" or other related terms within the Contract Documents or any other papers or forms utilized in connection with the Project.

Add a new paragraph J at the end of Section 6.06 which reads as follows:

Contractor shall take measures reasonably necessary to (1) inform all prospective subcontractors and materialmen of the provisions of Section 6.06 and obtain their consent thereto prior to the submission of any bid or proposal to the Contractor and (2) incorporate the terms and conditions of Section 6.06 into any agreement with such subcontractor or materialman.

SC-6.13 Safety and Protection

Add new paragraphs to the end of Section 6.13 as follows:

It is expressly understood by the parties to this Agreement that the CONTRACTOR is solely responsible for initiating, maintaining, and supervising safety precautions and programs in connection with the Work. The right of the OWNER and ENGINEER to observe or otherwise review the Work and operations shall not relieve the CONTRACTOR from any of his

covenants and obligations hereunder. CONTRACTOR shall incorporate all safety requirements into his construction progress and work schedules including preconstruction and scheduled safety meetings, posted safety rules, tailgate meetings, and site inspections by safety and other inspectors employed by the CONTRACTOR.

The CONTRACTOR shall be responsible for and shall take necessary precautions and provide all material and equipment to protect, shore, brace, support and maintain all underground pipes, conduits, drains, sewers, water mains, gas mains, cables, etc., and other underground construction uncovered in the proximity, or otherwise affected by the construction work performed by him. All pavement, surfacing, driveways, curbs, walks, buildings, grass areas, trees, utility poles or guy wires damaged by the CONTRACTOR's operations in the performance of this work shall be repaired and/or replaced to the satisfaction of the OWNER, ENGINEER, and effected property owner at the CONTRACTOR's expense. The CONTRACTOR shall also be responsible for all damage to streets, roads, highways, shoulders, ditches, embankments, culverts, bridges, or other public or private property or facility, regardless of location or character, which may be caused by moving, hauling, or otherwise transporting equipment, materials, or men to and from the work or any part of site thereof; whether by him or his subcontractors. The CONTRACTOR shall make satisfactory and acceptable arrangements with owner of, or the agency or authority having jurisdiction over, the damaged property or facility concerning its repair or replacement or payment of costs incurred in connection with said damage.

The CONTRACTOR shall conduct his work so as to interfere as little as possible with public travel, whether vehicular or pedestrian. Whenever it is necessary to cross, obstruct, or close roads, driveways, and walks, whether public or private, the CONTRACTOR shall obtain approval from the governing party and shall, at his own expense, provide and maintain suitable and safe bridges, detours, and other temporary expedients for the accommodation of public and private drives before interfering with them. The provisions for temporary expedients will not be required when the CONTRACTOR has obtained permission from the owner and tenant of the private property, or from the authority having jurisdiction over public property involved, to obstruct traffic at the designated point.

Safety provisions must be entirely adequate and meet with County or State and Federal regulations to protect the public on these streets and roads.

SC-6.18A Continuing the Work

Add the following to the end of this paragraph:

The provisions of this paragraph do not limit the right of the OWNER to order additions, deletions or revisions in the Work per the General Conditions including additions, deletions or revisions to the Work affected by the disputes or disagreements.

SC-6.20 Indemnification

Add a new paragraph immediately after paragraph 6.20A which reads as follows:

It is expressly understood and agreed that, while OWNER and ENGINEER may have the right under this Contract to observe or otherwise review the work, progress and operations of the CONTRACTOR, it is expressly understood and agreed that such observation shall not relieve the CONTRACTOR from any of its covenants and obligations hereunder. The CONTRACTOR shall be solely responsible and save the OWNER and ENGINEER and their

consultants, agents and employees harmless from all suits, actions or claims of any character brought on account of any injuries or damages sustained by any person or property in consequence of any neglect in safeguarding the work, observing safety standards or regulations, or otherwise. This indemnification would include the use of unsafe or unacceptable materials in the construction or completion of the project, or the CONTRACTOR's failure to comply with any law, ordinance, or regulation, even though such act, omission, or work was done under the direct or indirect review of, or was observed by the OWNER or ENGINEER.

Add the following language at the end of paragraph 6.20B:

Nor shall the CONTRACTOR'S obligations under Section 6.20 be in any way limited by any insurance coverage which the CONTRACTOR may have or which may insure to his benefit.

Add the following language at the end of paragraph 6.20C:

If legal action shall be commenced to enforce the terms and provisions of this Agreement, the prevailing party shall be entitled to reasonable costs incurred as allowed by Nebraska law.

SC-7.02 Coordination

Delete Section 7.02 in its entirety.

SC-8.02 Replacement of Engineer

Add the following sentence to the end of Section 8.02:

Work shall stop and will not be resumed until the new ENGINEER is on site.

SC-9.03 Project Representative

Add a new paragraph after paragraph 9.03.A as follows:

B. The Resident Project Representative (RPR) is the Engineer's Agent at the site, and will act as directed by and under the supervision of the Engineer. RPR's dealings in matters pertaining to the CONTRACTOR's work in progress shall in general be with ENGINEER and CONTRACTOR, keeping the OWNER informed as necessary. RPR's dealings with subcontractors shall be through or with the full knowledge and approval of the CONTRACTOR.

RPR shall not:

1. Authorize any deviation from the Contract Documents or substitution of materials or equipment (including "or-equal" items).
2. Exceed limitations of Engineer's authority as set forth in the General Conditions.
3. Undertake any of the responsibilities of CONTRACTOR, subcontractors, suppliers, or CONTRACTOR's superintendent.
4. Advise on, issue directions relative to or assume control over any aspect of the

means, methods, techniques, sequences or procedures of CONTRACTOR's Work unless such advice or directions are specifically required by the Contract Documents.

5. Advise on, issue directions regarding or assume control over safety precautions and programs in connection with the activities or operations of OWNER or CONTRACTOR.

6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by ENGINEER.

7. Accept Shop Drawings or Samples submittals from anyone other than the CONTRACTOR.

8. Authorize OWNER to occupy the Project in whole or part.

RPR may do the following:

1. Schedules. Review the progress schedule, schedule of Shop Drawing submittals and schedule of values prepared by the CONTRACTOR and consult with the ENGINEER concerning acceptability.

2. Conferences and Meetings. Attend meetings with the CONTRACTOR, such as Pre-Construction Conference, progress meetings, job conferences, and other project-related meetings, and prepare and circulate copies of minutes thereof.

3. Liaison. Serve as the ENGINEER'S liaison with the CONTRACTOR, working principally through the CONTRACTOR's superintendent, and assist in understanding the intent of the Contract Documents; and assist the ENGINEER in serving as the OWNER's liaison with the CONTRACTOR when the CONTRACTOR's operations affect the OWNER's on-site operations. assist in obtaining, from the OWNER, additional details or information, when required, for proper execution of the Work.

4. Shop Drawings. Receive and keep record of Shop Drawings, submittals and samples. Advise ENGINEER and CONTRACTOR of Work that may be commencing that does not have approved submittals.

5. Review of Work, Rejection of Defective Work, Inspections and Tests.

- a. Conduct on-site observations of the Work in progress to assist the ENGINEER in determining if the Work is, in general, proceeding in accordance with the Contract Documents.
- b. Report to the ENGINEER whenever the RPR believes that any Work is unsatisfactory, faulty, or defective, or does not conform to the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; and advise the ENGINEER of Work that the RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection, or approval.
- c. Verify that tests, equipment and systems start-up and operating and maintenance training are conducted in the presence of appropriate personnel, and that the CONTRACTOR maintains adequate records

- thereof, and observe, record and report to the ENGINEER appropriate details relative to the test procedures and start-ups.
- d. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, record the results of these inspections and report to the ENGINEER.
6. Interpretation of Contract Documents. Report to ENGINEER when clarifications and interpretations of the Contract Documents are needed, and transmit, to the CONTRACTOR, clarifications and interpretations as issued by the ENGINEER.
7. Modifications. Consider and evaluate the CONTRACTOR's suggestions for modifications in Drawings or Specifications, and report with RPR's recommendations to the ENGINEER. Transmit to the CONTRACTOR decisions issued by the ENGINEER.
8. Records.
- a. Maintain orderly files for correspondence, reports of job conferences, Shop Drawings and samples, re-productions of original Contract Documents, including all Work Directive Changes, Addenda, Change Orders, Field Orders, additional Drawings issued subsequent to the execution of the Contract, the ENGINEER's clarifications and interpretations of the Contract Documents, progress reports, and other Project related documents.
- b. Keep a diary or log book, recording the CONTRACTOR hours on the job site, weather conditions, data relative to questions of Work Directive Changes, Change Orders or changed conditions, list of job site visitors, daily activities, decisions, observations in general, and specific observations in more detail, as in the case of observing test procedures; and send copies to the ENGINEER.
9. Reports.
- a. Furnish the ENGINEER periodic reports, as required, on progress of the Work and of the CONTRACTOR's compliance with the progress schedule and schedule of Shop Drawing and sample submittals.
- b. Consult with the ENGINEER, in advance of scheduled major tests, inspections or start of important phases of the Work.
- c. Draft proposed Change Orders and Work Directive Changes, obtaining backup material from the CONTRACTOR and recommend to the ENGINEER Change Orders, Work Directive Changes, and Field Orders.
- d. Report immediately to the ENGINEER and OWNER, upon the occurrence of any accident.
10. Payment Requests. Review applications for payment with the CONTRACTOR for compliance with the established procedure for their submission, and forward with recommendations to the ENGINEER, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the site, but not incorporated in the Work.
11. Certificates, Maintenance and Operation Manuals: During the course of the Work, verify that certificates, maintenance and operating manuals, and other data

required to be assembled and furnished by the CONTRACTOR are applicable to the items actually installed and in accordance with the Contract Documents, and have this material delivered to the ENGINEER for review and forwarded to the OWNER prior to final payment for the Work.

12. Completion:

- a. Before the ENGINEER issues a Certificate of Substantial Completion, submit to the CONTRACTOR a list of observed items requiring completion or correction.
- b. Conduct final inspection in the company of the ENGINEER, OWNER, and CONTRACTOR, and prepare a final list of items to be completed or corrected.
- c. Observe that all items on a final list have been completed or corrected, and make recommendations to the ENGINEER concerning acceptance.

SC-10.01A Changes in Work

Add the following paragraph at the end of Section 10.01A which reads as follows:

A Change Order or Written Amendment when executed, constitutes a modification to the Agreement and all provisions of the Agreement, except as modified by Written Amendment or Change Order, shall apply to said documents. The CONTRACTOR accepts a Written Amendment or Change Order as full compensation, both time and cost, for the additional work and any delays caused thereby.

SC-10.05 Claims

Add new paragraphs at the end of Section 10.05 which read as follows:

10.05.G. The CONTRACTOR agrees to make no claim for damages for delay in the performance of this contract caused by any act or failure act of the OWNER, ENGINEER or designated agents or representatives, whether such delays are avoidable or unavoidable that the CONTRACTOR agrees that such delays shall solely and fully be compensated for by an extension of time to complete performance of the work as provided herein. This includes any delays attributable to actions or lack of action by utility owners to locate or move their utilities.

10.05.H. Any claim for an increase or decrease in the Contract Price originated by a Subcontractor shall be evaluated by the CONTRACTOR. The CONTRACTOR shall determine the validity of said claim, and if the CONTRACTOR determines that said claim is valid, the CONTRACTOR shall so state in writing to the OWNER in accordance with all the requirements of the General Conditions.

SC-11.01 Cost of the Work

Delete paragraph 11.01 .A.5.c in its entirety and insert the following in its place:

11.01.A.5.c The cost for the use of all construction equipment and machinery and parts thereof whether owned by the CONTRACTOR or rented from others. The cost shall be calculated as follows and will include the costs of transportation, loading, unloading, assembly, dismantling and removal thereof for equipment involved only in the changed portion of the work covered under the cost of the Work method. Transportation, loading and assembly costs will not be included for equipment already on the site which is being used

for other portions of the Work. The cost of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work. Hourly equipment and machinery rates shall be calculated from the latest edition of the Rental Rate Blue Book for Construction Equipment, and the Equipment List submitted according to GC-2.05 and GC-2.07, and as follows:

1. For working equipment, the hourly rate shall be the monthly rental rate divided by 176 hours per month plus the hourly operating cost.
2. For equipment on standby, the hourly rate shall be 50% of the monthly rental rate divided by 176 hours per month, and the hourly operating cost shall not be applied.
3. For specialized equipment rented for a short duration used for change order work or additional work not part of the scope of work bid, the equipment rental rates will be negotiated prior to the work being performed.
4. Equipment and machinery rates shall be provided and approved prior to commencing work. Blue Book rates shall apply without CONTRACTOR fee, per the General Conditions.

SC-11.01A5 Cost of Work

Add a new paragraph immediately after paragraph 11.01.A.5 which reads as follows:

11.01.A.5.j. For Force Account work (if any), if requested to be performed on a time and materials basis by the ENGINEER, shall be done using the approved rates for labor and equipment.

SC-11.03D Unit Price Work

Delete paragraph 11.03.D.1 and 2 in their entirety and insert the following in its place:

1. The quantity of a particular item of Unit Price Work performed by CONTRACTOR differs by more than 25% from the estimated quantity of such item indicated in the Agreement, and
2. the total cost of the particular individual item of Unit Price Work amounts to 10% or more of the Contract Price which is the total sum of all schedules (if any), and

SC-12.02 Contract Time Extension

Add the following language at the end of paragraph 12.02:

The CONTRACTOR shall schedule the work to be completed within the Contract Time stipulated in the Agreement including an allowance for time lost due to rain, snow, cold weather or other natural phenomenon. A natural phenomenon is defined as a weather event that prohibits work from progressing in a satisfactory manner. Such events will not constitute justification for an extension of the contract time unless agreed upon by the ENGINEER during the event, and the total of time lost to such events exceeds 5% of the contract time.

SC-12.04 Liquidated Damages

Add the following paragraph as item 12.04:

Provisions for liquidated damages are set forth in the Agreement. The liquidated damages identified therein include among the other costs to the OWNER, an amount for maintaining the necessary engineering forces engaged beyond the time identified in the Agreement for Substantial Completion. The liquidated damages will be deducted from the CONTRACTOR's progress estimates and/or final payment and the engineering fees shall be paid by the OWNER to the ENGINEER from the monies withheld.

SC-13.07 Correction Period

Add the following as paragraph 13.07.F.

All costs incurred by the OWNER for the inspection and documentation of warranty repairs shall be the responsibility of the CONTRACTOR. Such costs shall include, but are not limited to all fees and charges of inspectors, testing and testing personnel, engineers, and other professionals as determined by the ENGINEER. The costs incurred shall be deducted from monies due the CONTRACTOR.

Prior to commencing warranty repair work, the CONTRACTOR shall provide submittals to the ENGINEER detailing repair procedures for each separate type of repair, if requested by the ENGINEER.

SC-14.02 Application for Progress Payment

Add the following language at the end of paragraph 14.02.A as new items 4, 5 and 6:

4. Each application for progress payment shall be accompanied by the CONTRACTOR's updated Progress Schedule in accordance with Articles GC 6.04 and SC 6.04. The OWNER reserves the right to require submission of monthly certified payrolls from the CONTRACTOR.
5. The CONTRACTOR shall make his books and records relating to the items used for the determination of billings available for review by the Legislative Auditor and OWNER or his representatives. After resolution of any billing dispute where OWNER is due a refund, such refund shall be made to OWNER including interest. Interest shall be compounded monthly.
6. If the CONTRACTOR desires to receive payment for materials in storage for any assembly or lump sum bid item the CONTRACTOR shall provide a breakout of all materials and their actual costs for that item. This breakout shall be in spreadsheet or database form showing "period" and "to date" totals of materials in storage and materials incorporated into work. The CONTRACTOR shall attach invoices relating to the breakout to verify all materials being requested for payment under that item.

SC-14.02.A Applications for Payments

Add the following language at the end of paragraph 14.02.A.1:

Payments for materials in storage shall be based only upon the actual cost of the materials and equipment to CONTRACTOR and shall not include any overhead or profit. Bill of Sale, invoice or other document warranting clear title for materials in storage will be waived for the material in storage included in the first progress payment application. However, proof of payment and clear title must be submitted with Application No. 2 for all material included in Application No. 1. Without such documentation, amounts paid for materials in storage will be deducted from subsequent payments. Beginning with the second application, all requests for payment for materials in storage shall be accompanied by Bill of Sale, invoice or other document warranting clear title as required above.

SC-14.03 Contractor's Warranty of Title

Add the following at the end of paragraph 14.03:

Neither recommendation of any progress payment by ENGINEER nor payment by the OWNER to CONTRACTOR, nor any use or occupancy of the Work or any part thereof will release the CONTRACTOR from complying with the Contract Documents. Specifically the CONTRACTOR shall maintain in accordance with Article 5, property insurance on all Work, materials, and equipment whether incorporated in the project or not and whether included in an application for payment or not, for the full insurable value thereof. Passing title to OWNER for materials and equipment included in an application for payment does not relieve the CONTRACTOR of the CONTRACTOR's obligation to provide insurance (including property insurance), as required in Article 5 of the General Conditions and these Supplementary Conditions. All insurance shall remain in effect as provided in Article 5.

SC-14.07 Final Payment

Delete 14.07.C and insert the following in its place:

If no claims or liens have been filed within a forty (40) day period after advertisement for completion and acceptance of the project, the retained percentage will be paid (final estimate) within sixty (60) days of the expiration thereof, provided contract closeout requirements have been completed. Should any liens or claims be filed, retainage equal to the amount of the lien or claim will be held until a satisfactory agreement is reached between the OWNER, CONTRACTOR, and CONTRACTOR'S surety.

SC-14.09 Waiver of Claims

Delete Section 14.09 in its entirety.

SC-15.03 Owner May Terminate

Add new paragraphs immediately after paragraph 15.03.B which read as follows:

15.03C. Termination for Acts of God or OWNER's Convenience.

1. Should an act of God result in substantial damage to all or a portion of the Work, or should the OWNER'S convenience necessitate termination, the OWNER shall have the option of terminating the Agreement. If the OWNER exercises the option to terminate, a Notice to Terminate so providing will be issued. Such Notice to Terminate may provide for the CONTRACTOR to perform any work deemed by the OWNER as necessary to put the project in satisfactory condition for the termination

of all work. The CONTRACTOR shall be relieved of further responsibilities for damage to the

Work (excluding materials not already incorporated into the Work) which responsibilities are specified in the General Conditions, and will not be required to perform any further Work on the project other than that specified in the Notice of Termination.

2. When the ENGINEER determines that the Work specified in the Notice of Termination has been completed, the ENGINEER shall accept the project, and immediately upon such acceptance, the CONTRACTOR will not be required to perform any further Work thereon, and shall be relieved of his responsibility for injuries to persons or property.
3. After acceptance of the Work pursuant to the General Conditions, the CONTRACTOR will be paid for the Work done prior to termination. The OWNER will determine the value of the partially completed Work as follows: The CONTRACTOR will be paid for all Work to the date of the Notice of Termination in accordance with the General Conditions. This amount shall be computed by determining the percentage of the total contract Work completed prior to termination and multiplying that percentage against the total contract amount. The amount to be paid shall not exceed the amounts previously paid or due the CONTRACTOR from the amounts retained. The CONTRACTOR shall not be entitled to his anticipated profits for the Work, which would have been performed, but for termination.
4. If the CONTRACTOR has placed an order, prior to such termination, for materials specially manufactured for the project, which materials are not suitable for use in other projects of the OWNER or sale to others in the ordinary course of the vendors' business, the CONTRACTOR will be paid the actual cost to the CONTRACTOR or the cancellation charges, if any, assessed by the vendor. The determination of whether the order shall be completed or canceled shall be made by the OWNER. Any material paid for shall become the property of the OWNER and the actual cost of the any further handling will be paid for by the OWNER.
5. No payment will be made to vendor for materials which have been damaged and are not acceptable for incorporation in the work in accordance with the requirements of the Agreement. The CONTRACTOR shall reimburse the OWNER for any amounts previously paid by the OWNER for such unacceptable material, and agrees that the OWNER may deduct the amount of such previous payments made by the OWNER from any monies due or which may become due the CONTRACTOR. If the OWNER has paid for acceptable materials not incorporated into the Work under the General Conditions, the OWNER will have the option of taking title to all or any portion of such materials or of receiving reimbursement from the CONTRACTOR for any amounts previously paid to the CONTRACTOR. The CONTRACTOR agrees to pay to the OWNER upon demand any amounts previously paid for such materials, and agrees that the OWNER may deduct the amount of such previous payments from any monies due or which become due the CONTRACTOR.

15.03D. CONTRACTOR's Responsibility on Receipt of Notice of Termination.

On receipt of a notice of termination from the OWNER, whether for default or convenience of the OWNER, the CONTRACTOR shall:

1. Stop all Work under the Agreement on the date of and to the extent specified in the Notice of Termination;
2. Place no further orders or subcontracts for materials, equipment or services except as may be necessary for completion of such portions of the work expressly excluded under the Notice of Termination;
3. Cancel or terminate all orders of subcontracts to the extent that they relate to the performance of Work covered by the Notice of Termination; and,
4. Comply with all other requirements of the OWNER as may be specified in the Notice of Termination.

15.03E. Subcontract Provision.

The CONTRACTOR shall insert in all subcontracts a provision that the Subcontractor shall stop all work on the date of or to the extent specified in a Notice of Termination from the OWNER and shall require the Subcontractors to insert the same provision in their subcontracts.

15.03F. Duty To Notify Subcontractors.

The CONTRACTOR shall immediately, upon receipt, communicate any Notice of Termination issued by the OWNER to the affected Subcontractors and Sub-subcontractors.

SC-16 Dispute Resolution

Delete section in its entirety.

END OF SECTION

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by **ENGINEERS JOINT CONTRACT DOCUMENTS**

COMMITTEE

and Issued and Published

Jointly By



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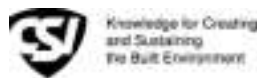
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These General Conditions have been prepared for use with the Suggested Forms of Agreement Between Owner and Contractor Nos. C-520 or C-525 (2002 Editions). Their provisions are interrelated and a change in one may necessitate a change in the other. Comments concerning their usage are contained in the EJCDC Construction Documents, General and Instructions (No. C-001) (2002 Edition). For guidance in the preparation of Supplementary Conditions, see Guide to the Preparation of Supplementary Conditions (No. C-800) (2002 Edition).

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GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

A. Wherever used in the Bidding Requirements or Contract Documents and printed with initial capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.

1. *Addenda*--Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.

2. *Agreement*---The written instrument which is evidence of the agreement between Owner and Contractor covering the Work.

3. *Application for Payment*---The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

4. *Asbestos*---Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

5. *Bid*--- The offer or proposal of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

6. *Bidder*--The individual or entity who submits a Bid directly to Owner.

7. *Bidding Documents*---The Bidding Requirements and the proposed Contract Documents (including all Addenda).

8. *Bidding Requirements*---The Advertisement or Invitation to Bid, Instructions to Bidders, bid security of acceptable form, if any, and the Bid Form with any supplements.

9. *Change Order*---A document recommended by Engineer which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.

10. *Claim*---A demand or assertion by Owner or Contractor seeking an adjustment of Contract Price or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.

11. *Contract*---The entire and integrated written agreement between the Owner and Contractor concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.

12. *Contract Documents*--- Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop Drawings, other Contractor's submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.

13. *Contract Price*---The moneys payable by Owner to Contractor for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of Paragraph 11.03 in the case of Unit Price Work).

14. *Contract Times*---The number of days or the dates stated in the Agreement to: (i) achieve Milestones, if any, (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Engineer's written recommendation of final payment.

15. *Contractor*---The individual or entity with whom Owner has entered into the Agreement.

16. *Cost of the Work*--See Paragraph 1 LOLA for definition.

17. *Drawings*--That part of the Contract Documents prepared or approved by Engineer which graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop Drawings and other Contractor submittals are not Drawings as so defined.

18. *Effective Date of the Agreement*---The date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

19. *Engineer*---The individual or entity named as such in the Agreement.

20. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.

21. *General Requirements*—Sections of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.

22. *Hazardous Environmental Condition*—The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto in connection with the Work.

23. *Hazardous Waste*--The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.

24. *Laws and Regulations; Laws or Regulations*--Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

25. *Liens*—Charges, security interests, or encumbrances upon Project funds, real property, or personal property.

26. *Milestone*—A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.

27. *Notice of Award*--The written notice by Owner to the Successful Bidder stating that upon timely compliance by the Successful Bidder with the conditions precedent listed therein, Owner will sign and deliver the Agreement.

28. *Notice to Proceed*—A written notice given by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work under the Contract Documents.

29. *Owner*—The individual or entity with whom Contractor has entered into the Agreement and for whom the Work is to be performed.

30. *PCBs*--Polychlorinated biphenyls.

31. *Petroleum*--Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.

32. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to accomplish the Work within the Contract Times.

33. *Project*—The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part.

34. *Project Manual*—The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one or more volumes, is contained in the table(s) of contents.

35. *Radioactive Material--Source*, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

36. *Related Entity* — An officer, director, partner, employee, agent, consultant, or subcontractor.

37. *Resident Project Representative*—The authorized representative of Engineer who may be assigned to the Site or any part thereof.

38. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

39. *Schedule of Submittals*--A schedule, prepared and maintained by Contractor, of required submittals and the time requirements to support scheduled performance of related construction activities.

40. *Schedule of Values*—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

41. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.

42. *Site*—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.

43. *Specifications*—That part of the Contract Documents consisting of written requirements for materials, equipment, systems, standards and workmanship as applied to the Work, and certain

administrative requirements and procedural matters applicable thereto.

44. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work at the Site.

45. *Substantial Completion*--The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.

46. *Successful Bidder*—The Bidder submitting a responsive Bid to whom Owner makes an award.

47. *Supplementary Conditions*--That part of the Contract Documents which amends or supplements these General Conditions.

48. *Supplier*—K manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or any Subcontractor.

49. *Underground Facilities*—AW underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.

50. *Unit Price Work*--Work to be paid for on the basis of unit prices.

51. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

52. *Work Change Directive*—A written statement to Contractor issued on or after the Effective Date of the Agreement and signed by Owner and recommended by Engineer ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times

but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.

1.02 Terminology

A. The following words or terms are not defined but, when used in the Bidding Requirements or Contract Documents, have the following meaning.

B. Intent of Certain Terms or Adjectives

1. The Contract Documents include the terms "as allowed," "as approved," "as ordered", "as directed" or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action or determination will be solely to evaluate, in general, the Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of Paragraph 9.09 or any other provision of the Contract Documents.

C. Day

1. The word "day" means a calendar day of 24 hours measured from midnight to the next midnight.

D. Defective

1. The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it:

a. does not conform to the Contract Documents, or

b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents, or

c. has been damaged prior to Engineer's - recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 14.04 or 14.05).

E. Furnish, Install, Perform, Provide

1. The word "furnish," when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.

2. The word "install," when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words "perform" or "provide," when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.

4. When "furnish," "install," "perform," or "provide" is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of Contractor, "provide" is implied.

F. Unless stated otherwise in the Contract Documents, words or phrases which have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 - PRELIMINARY MATTERS

2.01 Delivery of Bonds and Evidence of Insurance

A. When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds as Contractor may be required to furnish.

B. *Evidence of Insurance:* Before any Work at the Site is started, Contractor and Owner shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which Contractor and Owner respectively are required to purchase and maintain in accordance with Article 5.

2.02 Copies of Documents

A. Owner shall furnish to Contractor up to ten printed or hard copies of the Drawings and Project Manual. Additional copies will be furnished upon request at the cost of reproduction.

2.03 Commencement of Contract Times; Notice to Proceed

A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement

or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

2.04 Starting the Work

A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

2.05 Before Starting Construction

A. *Preliminary Schedules:* Within 10 days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), Contractor shall submit to Engineer for timely review:

1. a preliminary Progress Schedule; indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;

2. a preliminary Schedule of Submittals; and

3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.06 Preconstruction Conference

A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in Paragraph 2.05.A, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

2.07 Initial Acceptance of Schedules

A. At least 10 days before submission of the first Application for Payment a conference attended by Contractor, Engineer, and others as appropriate will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.05.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until acceptable schedules are submitted to Engineer.

1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work nor interfere with or relieve Contractor from Contractor's full responsibility therefor.

2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.

3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the Work.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.01 *Intent*

A. The Contract Documents are complementary; what is required by one is as binding as if required by all.

B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to Owner.

C. Clarifications and interpretations of the Contract Documents shall be issued by Engineer as provided in Article 9.

3.02 *Reference Standards*

A. Standards, Specifications, Codes, Laws, and Regulations

1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard, specification, manual or code, or any instruction of a Supplier shall be effective to change the duties or

responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees from those set forth in the Contract Documents. No such provision or instruction shall be effective to assign to Owner, or Engineer, or any of, their Related Entities, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

3.03 *Reporting and Resolving Discrepancies*

A. Reporting Discrepancies

1. *Contractor's Review of Contract Documents Before Starting Work:* Before undertaking each part of the Work, Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures therein and all applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy which Contractor may discover and shall obtain a written interpretation or clarification from Engineer before proceeding with any Work affected thereby.

2. *Contractor's Review of Contract Documents During Performance of Work:* If, during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier, Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in Paragraph 3.04.

3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor knew or reasonably should have known thereof.

B. Resolving Discrepancies

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:

a. the provisions of any standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or

b. the provisions of any Laws or Regulations applicable to the performance of the Work

(unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 *Amending and Supplementing Contract Documents*

A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof by either a Change Order or a Work Change Directive.

B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways:

A Field Order;

2. Engineer's approval of a Shop Drawing or Sample; (Subject to the provisions of Paragraph 6.17.D.3); or

3. Engineer's written interpretation or clarification.

3.05 *Reuse of Documents*

A. Contractor and any Subcontractor or Supplier or other individual or entity performing or furnishing all of the Work under a direct or indirect contract with Contractor, shall not:

1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or Engineer's consultants, including electronic media editions; or

2. reuse any of such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaption by Engineer.

B. The prohibition of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

3.06 *Electronic Data*

A. Copies of data furnished by Owner or Engineer to Contractor or Contractor to Owner or Engineer that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's

sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

B. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the transferring party..

C. When transferring documents in electronic media format, the transferring party makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the data's creator.

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS; REFERENCE POINTS

4.01 *Availability of Lands*

A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work. Owner will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If Contractor and Owner are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in Owner's furnishing the Site or a part thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.

C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.02 *Subsurface and Physical Conditions*

A. *Reports and Drawings:* The Supplementary Conditions identify:

1. those reports of explorations and tests of subsurface conditions at or contiguous to the Site that Engineer has used in preparing the Contract Documents; and

2. those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) that Engineer has used in preparing the Contract Documents.

B. *Limited Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," Contractor may not rely upon or make any claim against Owner or Engineer, or any of their Related Entities with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or

2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

3. any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.

4.03 *Differing Subsurface or Physical Conditions*

A. *Notice:* If Contractor believes that any subsurface or physical condition at or contiguous to the Site that is uncovered or revealed either:

1. is of such a nature as to establish that any "technical data" on which Contractor is entitled to rely as provided in Paragraph 4.02 is materially inaccurate; or

2. is of such a nature as to require a change in the Contract Documents; or

3. differs materially from that shown or indicated in the Contract Documents; or

4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16. A), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.

B. *Engineer's Review:* After receipt of written notice as required by Paragraph 4.03.A, Engineer will promptly review the pertinent condition, determine the necessity of Owner's obtaining additional exploration or tests with respect thereto, and advise Owner in writing (with a copy to Contractor) of Engineer's findings and conclusions.

C. Possible Price and Times Adjustments

1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

a. such condition must meet any one or more of the categories described in Paragraph 4.03.A; and

b. with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of Paragraphs 9.07 and 11.03.

2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times if:

a. Contractor knew of the existence of such conditions at the time Contractor made a final commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or

b. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such final commitment; or

c. Contractor failed to give the written notice as required by Paragraph 4.03.A.

3. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be made therefor as provided in Paragraph 10.05. However, Owner and Engineer, and any of their Related Entities shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

4.04 *Underground Facilities*

A. Shown or Indicated: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:

1. Owner and Engineer shall not be responsible for the accuracy or completeness of any such information or data; and

2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:

a. reviewing and checking all such information and data,

b. locating all Underground Facilities shown or indicated in the Contract Documents,

c. coordination of the Work with the owners of such Underground Facilities, including Owner, during construction, and

d. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

B. Not Shown or Indicated

1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 6.16. A), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer. Engineer will

promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

2. If Engineer concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, Owner or Contractor may make a Claim therefor as provided in Paragraph 10.05.

4.05 *Reference Points*

A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.06 *Hazardous Environmental Condition at Site*

A. Reports and Drawings: Reference is made to the Supplementary Conditions for the identification of those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that have been utilized by the Engineer in the preparation of the Contract Documents.

B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," Contractor may not rely upon or make any claim against Owner or Engineer, or any of their Related Entities with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or

2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or

3. any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions or information.

C. Contractor shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. Contractor shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible.

D. If Contractor encounters a Hazardous Environmental Condition or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 6.16.A); and (iii) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any.

E. Contractor shall not be required to resume Work in connection with such condition or in any affected area until after Owner has obtained any required permits related thereto and delivered to Contractor written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, either party may make a Claim therefor as provided in Paragraph 10.05.

F. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work. If Owner and Contractor cannot agree as to

entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in Paragraph 10.05. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 7.

G. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition: (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be included within the scope of the Work, and (ii) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06. G shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

H. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.H shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

I. The provisions of Paragraphs 4.02, 4.03, and 4.04 do not apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 5 - BONDS AND INSURANCE

5.01 *Performance, Payment, and Other Bonds*

A. Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all of Contractor's obligations under the Contract Documents. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified

in Paragraph 13.07, whichever is later, except as provided otherwise by Laws or Regulations or by the Contract Documents. Contractor shall also furnish such other bonds as are required by the Contract Documents.

B. All bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All bonds signed by an agent must be accompanied by a certified copy of the agent's authority to act.

C. If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of Paragraph 5.01.B, Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the requirements of Paragraphs 5.01.B and 5.02.

5.02 *Licensed Sureties and Insurers*

A. All bonds and insurance required by the Contract Documents to be purchased and maintained by Owner or Contractor shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

5.03 *Certificates of Insurance*

A. Contractor shall deliver to Owner, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Owner or any other additional insured) which Contractor is required to purchase and maintain.

B. Owner shall deliver to Contractor, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Contractor or any other additional insured) which Owner is required to purchase and maintain.

5.04 *Contractor's Liability Insurance*

A. Contractor shall purchase and maintain such liability and other insurance as is appropriate for the Work being performed and as will provide protection

from claims set forth below which may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;

2. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;

3. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;

4. claims for damages insured by reasonably available personal injury liability coverage which are sustained:

a. by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or

b. by any other person for any other reason;

5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and

6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

B. The policies of insurance required by this Paragraph 5.04 shall:

1. with respect to insurance required by Paragraphs 5.04.A.3 through 5.04.A.6 inclusive, include as additional insured (subject to any customary exclusion regarding professional liability) Owner and Engineer, and any other individuals or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, partners, employees, agents, consultants and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;

2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;

3. include completed operations insurance;

4. include contractual liability insurance covering Contractor's indemnity obligations under Paragraphs 6.11 and 6.20;

5. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to Paragraph 5.03 will so provide);

6. remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.07; and

7. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment.

a. Contractor shall furnish Owner and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

5.05 *Owner's Liability Insurance*

A. In addition to the insurance required to be provided by Contractor under Paragraph 5.04, Owner, at Owner's option, may purchase and maintain at Owner's expense Owner's own liability insurance as will protect Owner against claims which may arise from operations under the Contract Documents.

5.06 *Property Insurance*

A. Unless otherwise provided in the Supplementary Conditions, Owner shall purchase and maintain property insurance upon the Work at the Site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:

1. include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured;

2. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, false work, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, (other than caused by flood) and such other perils or causes of loss as may be specifically required by the Supplementary Conditions;

3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);

4. cover materials and equipment stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer;

5. allow for partial utilization of the Work by Owner;

6. include testing and startup; and

7. be maintained in effect until final payment is made unless otherwise agreed to in writing by Owner, Contractor, and Engineer with 30 days written notice to each other additional insured to whom a certificate of insurance has been issued.

B. Owner shall purchase and maintain such boiler and machinery insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.

C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with Paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with Paragraph 5.07.

D. Owner shall not be responsible for purchasing and maintaining any property insurance specified in this Paragraph 5.06 to protect the interests of Contractor, Subcontractors, or others in the Work to the extent of any

deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

E. If Contractor requests in writing that other special insurance be included in the property insurance policies provided under Paragraph 5.06, Owner shall, if possible, include such insurance, and the cost thereof will be charged to Contractor by appropriate Change Order. Prior to commencement of the Work at the Site, Owner shall in writing advise Contractor whether or not such other insurance has been procured by Owner.

5.07 *Waiver of Rights*

A. Owner and Contractor intend that all policies purchased in accordance with Paragraph 5.06 will protect Owner, Contractor, Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereunder. Owner and Contractor waive all rights against each other and their respective officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them for all losses and damages caused by, arising out of or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insured or additional insured (and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them) under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by Owner as trustee or otherwise payable under any policy so issued.

B. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them for:

1. loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other perils whether or not insured by Owner; and

2. loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by Owner during partial utilization pursuant to Paragraph 14.05, after Substantial Completion pursuant to Paragraph 14.04, or after final payment pursuant to Paragraph 14.07.

C. Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 5.07.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against Contractor, Subcontractors, or Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them.

5.08 *Receipt and Application of Insurance Proceeds*

A. Any insured loss under the policies of insurance required by Paragraph 5.06 will be adjusted with Owner and made payable to Owner as fiduciary for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause and of Paragraph 5.08.B. Owner shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order.

B. Owner as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to Owner's exercise of this power. If such objection be made, Owner as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, Owner as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, Owner as fiduciary shall give bond for the proper performance of such duties.

5.09 *Acceptance of Bonds and Insurance; Option to Replace*

A. If either Owner or Contractor has any objection to the coverage afforded by or other provisions of the bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract

Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates (or other evidence requested) required by Paragraph 2.01.B. Owner and Contractor shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

5.10 *Partial Utilization, Acknowledgment of Property Insurer*

A. If Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to Paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

6.01 *Supervision and Superintendence*

A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.

B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances. The superintendent will be Contractor's representative at the Site and shall have authority to act on behalf of Contractor. All communications given to or

received from the superintendent shall be binding on Contractor.

6.02 *Labor; Working Hours*

A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.

B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours. Contractor will not permit the performance of Work on a Saturday, Sunday, or any legal holiday without Owner's written consent (which will not be unreasonably withheld) given after prior written notice to Engineer.

6.03 *Services, Materials, and Equipment*

A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.

B. All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.

C. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

6.04 *Progress Schedule*

A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.07 as it may be adjusted from time to time as provided below.

1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.07) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times. Such adjustments will comply with any provisions of the General Requirements applicable thereto.

2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 12. Adjustments in Contract Times may only be made by a Change Order.

6.05 *Substitutes and "Or-Equals"*

A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to Engineer for review under the circumstances described below.

1. *"Or-Equal" Items:* If in Engineer's sole discretion an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by Engineer as an "or-equal" item, in which case review and approval of the proposed item may, in Engineer's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this Paragraph 6.05.A.1, a proposed item of material or equipment will be considered functionally equal to an item so named if:

a. in the exercise of reasonable judgment Engineer determines that:

1) it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;

2) it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole,

3) it has a proven record of performance and availability of responsive service; and

b. Contractor certifies that, if approved and incorporated into the Work:

1) there will be no increase in cost to the Owner or increase in Contract Times, and

2) it will conform substantially to the detailed requirements of the item named in the Contract Documents.

2. Substitute Items

a. If in Engineer's sole discretion an item of material or equipment proposed by Contractor does not qualify as an "or-equal" item under Paragraph 6.05.A.1, it will be considered a proposed substitute item.

b. Contractor shall submit sufficient information as provided below to allow Engineer to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. Requests for review of proposed substitute items of material or equipment will not be accepted by Engineer from anyone other than Contractor.

c. The requirements for review by Engineer will be as set forth in Paragraph 6.05.A.2.d, as supplemented in the General Requirements and as Engineer may decide is appropriate under the circumstances.

d. Contractor shall make written application to Engineer for review of a proposed substitute item of material or equipment that Contractor seeks to furnish or use. The application:

1) shall certify that the proposed substitute item will:

a) perform adequately the functions and achieve the results called for by the general design,

b) be similar in substance to that specified, and

c) be suited to the same use as that specified;

2) will state:

a) the extent, if any, to which the use of the proposed substitute item will prejudice Contractor's achievement of Substantial Completion on time;

b) whether or not use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item; and

c) whether or not incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty;

3) will identify:

a) all variations of the proposed substitute item from that specified, and

b) available engineering, sales, maintenance, repair, and replacement services;

4) and shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including costs of redesign and claims of other contractors affected by any resulting change,

B. *Substitute Construction Methods or Procedures:* If a specific means, method, technique, sequence, or procedure of construction is expressly required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, technique, sequence, or procedure of construction approved by Engineer. Contractor shall submit sufficient information to allow Engineer, in Engineer's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The requirements for review by Engineer will be similar to those provided in Paragraph 6.05. A.2.

C. *Engineer's Evaluation:* Engineer will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to Paragraphs 6.05.A and 6.05.B. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No "or equal" or substitute will be ordered, installed or utilized until Engineer's review is complete, which will be evidenced by either a Change Order for a substitute or an approved Shop Drawing for an "or equal." Engineer will advise Contractor in writing of any negative determination.

D. *Special Guarantee:* Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

E. *Engineer's Cost Reimbursement:* Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor pursuant to Paragraphs 6.05.A.2 and 6.05.B. Whether or not Engineer approves a substitute item so proposed or submitted by Contractor, Contractor shall reimburse Owner for the charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the charges of Engineer for making changes in the Contract

Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.

F. *Contractor's Expense:* Contractor shall provide all data in support of any proposed substitute or "or-equal" at Contractor's expense.

6.06 *Concerning Subcontractors, Suppliers, and Others*

A. Contractor shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to Owner as indicated in Paragraph 6.06.B), whether initially or as a replacement, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom Contractor has reasonable objection.

B. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or entities to be submitted to Owner in advance for acceptance by Owner by a specified date prior to the Effective Date of the Agreement, and if Contractor has submitted a list thereof in accordance with the Supplementary Conditions, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the basis of reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and an appropriate Change Order will be issued. No acceptance by Owner of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of any right of Owner or Engineer to reject defective Work.

C. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the Contract Documents:

1. shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier or other individual or entity, nor

2. shall anything in the Contract Documents create any obligation on the part of Owner or Engineer to pay or to see to the payment of any moneys due any such Subcontractor, Supplier, or other individual

or entity except as may otherwise be required by Laws and Regulations.

D. Contractor shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with Contractor.

E. Contractor shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with Engineer through Contractor.

F. The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

G. All Work performed for Contractor by a Subcontractor or Supplier will be pursuant to an appropriate agreement between Contractor and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in Paragraph 5.06, the agreement between the Contractor and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against Owner, Contractor, and Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, Contractor will obtain the same.

6.07 *Patent Fees and Royalties*

A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of Owner or Engineer its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.

B. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

6.08 *Permits*

A. Unless otherwise provided in the Supplementary Conditions, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

6.09 *Laws and Regulations*

A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.

B. If Contractor performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work. However, it shall not be Contractor's primary responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.

C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work shall be the subject of an adjustment in Contract Price or Contract Times. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

Taxes
6.10

A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

6.11 *Use of Site and Other Areas*

A. Limitation on Use of Site and Other Areas

1. Contractor shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.

2. Should any claim be made by any such owner or occupant because of the performance of the Work, Contractor shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.

3. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused by or based upon Contractor's performance of the Work.

B. *Removal of Debris During Performance of the Work:* During the progress of the Work Contractor shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

C. *Cleaning:* Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

D. *Loading Structures:* Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 *Record Documents*

A. Contractor shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to Engineer for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to Engineer for Owner.

6.13 *Safety and Protection*

A. Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. all persons on the Site or who may be affected by the Work;

2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and

3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.

B. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

C. All damage, injury, or loss to any property referred to in Paragraph 6.13.A.2 or 6.13.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor (except damage or loss attributable to the fault of Draw-

ings or Specifications or to the acts or omissions of Owner or Engineer or , or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).

D. Contractor's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.14 *Safety Representative*

A. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.15 *Hazard Communication Programs*

A. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

6.16 *Emergencies*

A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

6.17 *Shop Drawings and Samples*

A. Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the acceptable Schedule of Submittals (as required by Paragraph 2.07). Each submittal will be identified as Engineer may require.

1. Shop Drawings

a. Submit number of copies specified in the General Requirements.

b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 6.17.D.

2. *Samples*: Contractor shall also submit Samples to Engineer for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals.

a. Submit number of Samples specified in the Specifications.

b. Clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 6.17.D.

B. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals , any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.

C. Submittal Procedures

1. Before submitting each Shop Drawing or Sample, Contractor shall have determined and verified:

a. all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

b. the suitability of all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;

c. all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto; and

d. shall also have reviewed and coordinated each Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents.

2. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents

with respect to Contractor's review and approval of that submittal.

3. With each submittal, Contractor shall give Engineer specific written notice of any variations, that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be both a written communication separate from the Shop Drawing's or Sample Submittal; and, in addition, by a specific notation made on each Shop Drawing or Sample submitted to Engineer for review and approval of each such variation.

D. Engineer's Review

1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

3. Engineer's review and approval shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 6.17.C.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer's review and approval shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 6.17. C. 1.

E. Resubmittal Procedures

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.

6.18 Continuing the Work

A. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or

disagreements with Owner. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by Paragraph 15.04 or as Owner and Contractor may otherwise agree in writing.

6.19 Contractor's General Warranty and Guarantee

A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its Related Entities shall be entitled to rely on representation of Contractor's warranty and guarantee.

B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

1. abuse, modification, or improper maintenance or operation by persons other than Contractor, Sub contractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or

2. normal wear and tear under normal usage.

C. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:

1. observations by Engineer;

2. recommendation by Engineer or payment by Owner of any progress or final payment;

3. the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;

4. use or occupancy of the Work or any part thereof by Owner;

5. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by Engineer;

6. any inspection, test, or approval by others; or

7. any correction of defective Work by Owner.

6.20 Indemnification

A. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or

arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable .

B. In any and all claims against Owner or Engineer or any of their respective consultants, agents, officers, directors, partners, or employees by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 6.20.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

C. The indemnification obligations of Contractor under Paragraph 6.20. A shall not extend to the liability of Engineer and Engineer's officers, directors, partners, employees, agents, consultants and subcontractors arising out of:

1. the preparation or approval of, or the failure to prepare or approve, maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or
2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

6.21 *Delegation of Professional Design Services*

A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable law.

B. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal

shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.

C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.

D. Pursuant to this Paragraph 6.21, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 6.17.D. 1.

E. Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

ARTICLE 7 - OTHER WORK AT THE SITE

7.01 *Related Work at Site*

A. Owner may perform other work related to the Project at the Site with Owner's employees, or via other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:

1. written notice thereof will be given to Contractor prior to starting any such other work; and
2. if Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in Paragraph 10.05.

B. Contractor shall afford each other contractor who is a party to such a direct contract, each utility owner and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work, and shall properly coordinate the Work with theirs. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and

properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of Engineer and the others whose work will be affected. The duties and responsibilities of Contractor under this Paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between Owner and such utility owners and other contractors.

C. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 7, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

7.02 *Coordination*

A. If Owner intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:

1. the individual or entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;

2. the specific matters to be covered by such authority and responsibility will be itemized; and

3. the extent of such authority and responsibilities will be provided.

B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

7.03 *Legal Relationships*

A. Paragraphs 7.01.A and 7.02 are not applicable for utilities not under the control of Owner.

B. Each other direct contract of Owner under Paragraph 7.01.A shall provide that the other contractor is liable to Owner and Contractor for the reasonable direct delay and disruption costs incurred by Contractor as a result of the other contractor's actions or inactions.

C. Contractor shall be liable to Owner and any other contractor for the reasonable direct delay and disruption costs incurred by such other contractor as a result of Contractor's action or inactions.

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8.01 *Communications to Contractor*

A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

8.02 *Replacement of Engineer*

A. In case of termination of the employment of Engineer, Owner shall appoint an engineer to whom Contractor makes no reasonable objection, whose status under the Contract Documents shall be that of the former Engineer.

8.03 *Furnish Data*

A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

8.04 *Pay When Due*

A. Owner shall make payments to Contractor when they are due as provided in Paragraphs 14.02.C and 14.07.C.

8.05 *Lands and Easements; Reports and Tests*

A. Owner's duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in Paragraphs 4.01 and 4.05. Paragraph 4.02 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site that have been utilized by Engineer in preparing the Contract Documents.

8.06 *Insurance*

A. Owner's responsibilities, if any, in respect to purchasing and maintaining liability and property insurance are set forth in Article 5.

8.07 *Change Orders*

A. Owner is obligated to execute Change Orders as indicated in Paragraph 10.03.

8.08 *Inspections, Tests, and Approvals*

A. Owner's responsibility in respect to certain inspections, tests, and approvals is set forth in Paragraph 13.03.B.

8.09 *Limitations on Owner's Responsibilities*

A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

8.10 *Undisclosed Hazardous Environmental Condition*

A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 4.06.

8.11 *Evidence of Financial Arrangements*

A. If and to the extent Owner has agreed to furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents, Owner's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION

9.01 *Owner's Representative*

A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract Documents and will not be changed without written consent of Owner and Engineer.

9.02 *Visits to Site*

A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep

Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.

B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 9.09. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

9.03 *Project Representative*

A. If Owner and Engineer agree, Engineer will furnish a Resident Project Representative to assist Engineer in providing more extensive observation of the Work. The authority and responsibilities of any such Resident Project Representative and assistants will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 9.09. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer's consultant, agent or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

9.04 *Authorized Variations in Work*

A. Engineer may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on Owner and also on Contractor, who shall perform the Work involved promptly. If Owner or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, and the parties are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

9.05 *Rejecting Defective Work*

A. Engineer will have authority to reject Work which Engineer believes to be defective, or that Engineer believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Engineer will also have authority to require special inspection or testing of the Work as provided in Paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

9.06 *Shop Drawings, Change Orders and Payments*

A. In connection with Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, see Paragraph 6.17.

B. In connection with Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, see Paragraph 6.21.

C. In connection with Engineer's authority as to Change Orders, see Articles 10, 11, and 12.

D. In connection with Engineer's authority as to Applications for Payment, see Article 14.

9.07 *Determinations for Unit Price Work*

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of Paragraph 10.05.

9.08 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. Engineer will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. All matters in question and other matters between Owner and Contractor arising prior to the date final payment is due relating to the acceptability of the Work, and the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, will be referred initially to Engineer in writing within 30 days of the event giving rise to the question

B. Engineer will, with reasonable promptness, render a written decision on the issue referred. If Owner or Contractor believe that any such decision entitles them to an adjustment in the Contract Price or Contract Times or both, a Claim may be made under Paragraph 10.05. The date of Engineer's decision shall be the date of the event giving rise to the issues referenced for the purposes of Paragraph 10.05.B.

C. Engineer's written decision on the issue referred will be final and binding on Owner and Contractor, subject to the provisions of Paragraph 10.05.

D. When functioning as interpreter and judge under this Paragraph 9.08, Engineer will not show

partiality to Owner or Contractor and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity.

9.09 *Limitations on Engineer's Authority and Responsibilities*

A. Neither Engineer's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 14.07. A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with the Contract Documents.

E. The limitations upon authority and responsibility set forth in this Paragraph 9.09 shall also apply to, the Resident Project Representative, if any, and assistants, if any.

ARTICLE 10 - CHANGES IN THE WORK; CLAIMS

10.01 *Authorized Changes in the Work*

A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work by a Change Order, or a Work Change Directive. Upon receipt of any such document, Contractor shall

promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

B. If Owner and Contractor are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in Paragraph 10.05.

10.02 *Unauthorized Changes in the Work*

A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in Paragraph 3.04, except in the case of an emergency as provided in Paragraph 6.16 or in the case of uncovering Work as provided in Paragraph 13.04.B.

10.03 *Execution of Change Orders*

A. Owner and Contractor shall execute appropriate Change Orders recommended by Engineer covering:

1. changes in the Work which are: (i) ordered by Owner pursuant to Paragraph 10.01.A, (ii) required because of acceptance of defective Work under Paragraph 13.08.A or Owner's correction of defective Work under Paragraph 13.09, or (iii) agreed to by the parties;

2. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive; and

3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by Engineer pursuant to Paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, Contractor shall carry on the Work and adhere to the Progress Schedule as provided in Paragraph 6.18. A.

10.04 *Notification to Surety*

A. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any bond to be given to a surety, the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

10.05 *Claims*

A. *Engineer's Decision Required:* All Claims, except those waived pursuant to Paragraph 14.09, shall be referred to the Engineer for decision. A decision by Engineer shall be required as a condition precedent to any exercise by Owner or Contractor of any rights or remedies either may otherwise have under the Contract Documents or by Laws and Regulations in respect of such Claims.

B. *Notice:* Written notice stating the general nature of each Claim, shall be delivered by the claimant to Engineer and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. The responsibility to substantiate a Claim shall rest with the party making the Claim. Notice of the amount or extent of the Claim, with supporting data shall be delivered to the Engineer and the other party to the Contract within 60 days after the start of such event (unless Engineer allows additional time for claimant to submit additional or more accurate data in support of such Claim). A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of Paragraph 12.01.B. A Claim for an adjustment in Contract Time shall be prepared in accordance with the provisions of Paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to Engineer and the claimant within 30 days after receipt of the claimant's last submittal (unless Engineer allows additional time).

C. *Engineer's Action:* Engineer will review each Claim and, within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any, take one of the following actions in writing:

1. deny the Claim in whole or in part,

2. approve the Claim, or

3. notify the parties that the Engineer is unable to resolve the Claim if, in the Engineer's sole discretion, it would be inappropriate for the Engineer to do so. For purposes of further resolution of the Claim, such notice shall be deemed a denial.

D. In the event that Engineer does not take action on a Claim within said 30 days, the Claim shall be deemed denied.

E. Engineer's written action under Paragraph 10.05.C or denial pursuant to Paragraphs 10.05.C.3 or 10.05.D will be final and binding upon Owner and Contractor, unless Owner or Contractor invoke the dispute resolution procedure set forth in Article 16 within 30 days of such action or denial.

F. No Claim for an adjustment in Contract Price or Contract Times will be valid if not submitted in accordance with this Paragraph 10.05.

ARTICLE 11 - COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

11.01 *Cost of the Work*

A. *Costs Included:* The term Cost of the Work means the sum of all costs, except those excluded in Paragraph 11.01.B, necessarily incurred and paid by Contractor in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed to Contractor will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by Owner, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items, and shall not include any of the costs itemized in Paragraph 11.01.B.

1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time at the Site. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.

3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and

Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 11.01.

4. Costs of special consultants (including but not limited to Engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.

5. Supplemental costs including the following:

a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.

b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.

c. Rentals of all construction equipment and machinery, and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.

d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, imposed by Laws and Regulations.

e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 5.06.D), provided such losses and damages have

resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.

g. The cost of utilities, fuel, and sanitary facilities at the Site.

h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, expresses, and similar petty cash items in connection with the Work.

i. The costs of premiums for all bonds and insurance Contractor is required by the Contract Documents to purchase and maintain.

B. Costs Excluded: The term Cost of the Work shall not include any of the following items:

1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 11.01.A.1 or specifically covered by Paragraph 11.01.A.4, all of which are to be considered administrative costs covered by the Contractor's fee.

2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.

3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.

5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraphs 11.01. A and 11.01.B.

C. Contractor's Fee: When all the Work is performed on the basis of cost-plus, Contractor's fee shall

be determined as set forth in the Agreement. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 12.01.C.

D. Documentation: Whenever the Cost of the Work for any purpose is to be determined pursuant to Paragraphs 1 LOLA and 11.01.B, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

11.02 Allowances

A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

B. Cash Allowances

1. Contractor agrees that:

a. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and

b. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

C. Contingency Allowance

1. Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.

D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

11.03 Unit Price Work

A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by Contractor will be made by Engineer subject to the provisions of Paragraph 9.07.

C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.

D. Owner or Contractor may make a Claim for an adjustment in the Contract Price in accordance with Paragraph 10.05 if:

1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and

2. there is no corresponding adjustment with respect any other item of Work; and

3. Contractor believes that Contractor is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 12 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

12.01 *Change of Contract Price*

A. The Contract Price may only be changed by a Change Order. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

B. The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

1. where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 11.03); or

2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an

allowance for overhead and profit not necessarily in accordance with Paragraph 12.01.C.2); or

3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under Paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in Paragraph 11.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 12.01.C).

C. *Contractor's Fee:* The Contractor's fee for overhead and profit shall be determined as follows:

1. a mutually acceptable fixed fee; or

2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:

a. for costs incurred under Paragraphs 11.01.A.1 and 11.01.A.2, the Contractor's fee shall be 15 percent;

b. for costs incurred under Paragraph 11.01.A.3, the Contractor's fee shall be five percent;

c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraph 12.01.C.2.a is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under Paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and Contractor will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;

d. no fee shall be payable on the basis of costs itemized under Paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;

e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and

f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 12.01.C.2.a through 12.01.C.2.e, inclusive.

12.02 *Change of Contract Times*

A. The Contract Times may only be changed by a Change Order. Any Claim for an adjustment in the Contract Times shall be based on written notice submitted

by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

B. Any adjustment of the Contract Times covered by a Change Order or any Claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Article 12.

12.03 *Delays*

A. Where Contractor is prevented from completing any part of the Work within the Contract Times due to delay beyond the control of Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in Paragraph 12.02.A. Delays beyond the control of Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.

B. If Owner, Engineer, or other contractors or utility owners performing other work for Owner as contemplated by Article 7, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

C. If Contractor is delayed in the performance or progress of the Work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Contractor, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays described in this Paragraph 12.03.C.

D. Owner, Engineer and the Related Entities of each of them shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

E. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Contractor. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor.

ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

13.01 *Notice of Defects*

A. Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 *Access to Work*

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 *Tests and Inspections*

A. Contractor shall give Engineer timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

B. Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

1. for inspections, tests, or approvals covered by Paragraphs 13.03.C and 13.03.D below;

2. that costs incurred in connection with tests or inspections conducted pursuant to Paragraph 13.04.B shall be paid as provided in said Paragraph 13.04.C; and

3. as otherwise specifically provided in the Contract Documents.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

D. Contractor shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Engineer's acceptance of materials or equipment to

be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to Owner and Engineer.

E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, it must, if requested by Engineer, be uncovered for observation.

F. Uncovering Work as provided in Paragraph 13.03.E shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.

13.04 *Uncovering Work*

A. If any Work is covered contrary to the written request of Engineer, it must, if requested by Engineer, be uncovered for Engineer's observation and replaced at Contractor's expense.

B. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, furnishing all necessary labor, material, and equipment.

C. If it is found that the uncovered Work is defective, Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05.

D. If, the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

13.05 *Owner May Stop the Work*

A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

13.06 *Correction or Removal of Defective Work*

A. Promptly after receipt of notice, Contractor shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by Engineer, remove it from the Project and replace it with Work that is not defective. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

B. When correcting defective Work under the terms of this Paragraph 13.06 or Paragraph 13.07, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

13.07 *Correction Period*

A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.1 1.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

1. repair such defective land or areas; or
2. correct such defective Work; or
3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom.

B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Contractor.

C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications .

D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this Paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

E. Contractor's obligations under this Paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this Paragraph 13.07 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

13.08 *Acceptance of Defective Work*

A. If, instead of requiring correction or removal and replacement of defective Work, Owner (and, prior to Engineer's recommendation of final payment, Engineer) prefers to accept it, Owner may do so. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness) and the diminished value of the Work to the extent not otherwise paid by Contractor pursuant to this sentence. If any such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to Owner.

13.09 *Owner May Correct Defective Work*

A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work or to remove and replace rejected Work as required by Engineer in accordance with Paragraph 13.06.A, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.

B. In exercising the rights and remedies under this Paragraph 13.09, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the Site, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this Paragraph.

C. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 13.09 will be charged against Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, Owner may make a Claim therefor as provided in Paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 13.09.

ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 *Schedule of Values*

A. The Schedule of Values established as provided in Paragraph 2.07.A will serve as the basis for progress

payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 *Progress Payments*

A. Applications for Payments

1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

2. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.

3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

B. Review of Applications

1. Engineer will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to Owner or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.

2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations on the Site of the executed Work as an experienced and qualified design professional and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:

a. the Work has progressed to the point indicated;

b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under Paragraph 9.07, and to any other qualifications stated in the recommendation); and

c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

3. By recommending any such payment Engineer will not thereby be deemed to have represented that:

a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract Documents; or

b. that there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:

a. to supervise, direct, or control the Work, or

b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or

c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or

d. to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or

e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.

5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 14.02.B.2. Engineer may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent

inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Engineer's opinion to protect Owner from loss because:

- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- b. the Contract Price has been reduced by Change Orders;
- c. Owner has been required to correct defective Work or complete Work in accordance with Paragraph 13.09; or
- d. Engineer has actual knowledge of the occurrence of any of the events enumerated in Paragraph 15.02.A.

C. Payment Becomes Due

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

D. Reduction in Payment

1. Owner may refuse to make payment of the full amount recommended by Engineer because:

- a. claims have been made against Owner on account of Contractor's performance or furnishing of the Work;
- b. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
- c. there are other items entitling Owner to a set-off against the amount recommended; or
- d. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 14.02.B.5.a through 14.02.B.5.c or Paragraph 15.02.A.

2. If Owner refuses to make payment of the full amount recommended by Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, when Contractor corrects to Owner's satisfaction the reasons for such action.

3. If it is subsequently determined that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 14.02.C.1.

14.03 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens.

14.04 Substantial Completion

A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete (except for items specifically listed by Contractor as incomplete) and request that Engineer issue a certificate of Substantial Completion.

B. Promptly after Contractor's notification, , Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the tentative certificate during which to make written objection to Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Engineer concludes that the Work is not substantially complete, Engineer will within 14 days after submission of the tentative certificate to Owner notify Contractor in writing, stating the reasons therefor. If, after consideration of Owner's objections, Engineer considers the Work substantially complete, Engineer will within said 14 days execute and deliver to Owner and Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Engineer believes justified after consideration of any objections from Owner.

D. At the time of delivery of the tentative certificate of Substantial Completion, Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Engineer in writing prior to Engineer's issuing the definitive certificate of Substantial

Completion, Engineer's aforesaid recommendation will be binding on Owner and Contractor until final payment.

E. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to complete or correct items on the tentative list.

14.05 *Partial Utilization*

A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions.

1. Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor will certify to Owner and Engineer that such part of the Work is substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

2. Contractor at any time may notify Owner and Engineer in writing that Contractor considers any such part of the Work ready for its intended use and substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 5.10 regarding property insurance.

14.06 *Final Inspection*

A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals

that the Work is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.07 *Final Payment*

A. *Application for Payment*

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance certificates of inspection, marked-up record documents (as provided in Paragraph 6.12), and other documents, Contractor may make application for final payment following the procedure for progress payments.

2. The final Application for Payment shall be accompanied (except as previously delivered) by:

- a. all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 5.04.B.7;
- b. consent of the surety, if any, to final payment;
- c. a list of all Claims against Owner that Contractor believes are unsettled; and
- d. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of or Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in Paragraph 14.07.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (ii) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner or Owner's property might in any way be responsible have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien.

B. *Engineer's Review of Application and Acceptance*

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations

under the Contract Documents have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of payment and present the Application for Payment to Owner for payment. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable subject to the provisions of Paragraph 14.09. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

C. Payment Becomes Due

1. Thirty days after the presentation to Owner of the Application for Payment and accompanying documentation, the amount recommended by Engineer, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and , will be paid by Owner to Contractor.

14.08 *Final Completion Delayed*

A. If, through no fault of Contractor, final completion of the Work is significantly delayed, and if Engineer so confirms, Owner shall, upon receipt of Contractor's final Application for Payment (for Work fully completed and accepted) and recommendation of Engineer, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by Owner for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by Contractor to Engineer with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

14.09 *Waiver of Claims*

A. The making and acceptance of final payment will constitute:

1. a waiver of all Claims by Owner against Contractor, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from Contractor's continuing obligations under the Contract Documents; and

2. a waiver of all Claims by Contractor against Owner other than those previously made in accordance

with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 *Owner May Suspend Work*

A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to Contractor and Engineer which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Contractor makes a Claim therefor as provided in Paragraph 10.05.

15.02 *Owner May Terminate for Cause*

A. The occurrence of any one or more of the following events will justify termination for cause:

1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule established under Paragraph 2.07 as adjusted from time to time pursuant to Paragraph 6.04);

2. Contractor's disregard of Laws or Regulations of any public body having jurisdiction;

3. Contractor's disregard of the authority of Engineer; or

4. Contractor's violation in any substantial way of any provisions of the Contract Documents.

B. If one or more of the events identified in Paragraph 15.02.A occur, Owner may, after giving Contractor (and surety) seven days written notice of its intent to terminate the services of Contractor:

1. exclude Contractor from the Site, and take possession of the Work and of all Contractor's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion),

2. incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and

3. complete the Work as Owner may deem expedient.

C. If Owner proceeds as provided in Paragraph 15.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Owner arising out of or relating to completing the Work, such excess will be paid to Contractor. If such claims, costs, losses, and damages exceed such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this Paragraph Owner shall not be required to obtain the lowest price for the Work performed.

D. Notwithstanding Paragraphs 15.02.B and 15.02.C, Contractor's services will not be terminated if Contractor begins within seven days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of said notice.

E. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by Owner will not release Contractor from liability.

F. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 5.01. A, the termination procedures of that bond shall supersede the provisions of Paragraphs 15.02.B, and 15.02.C.

15.03 *Owner May Terminate For Convenience*

A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;

3. all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and

4. reasonable expenses directly attributable to termination.

B. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

15.04 *Contractor May Stop Work or Terminate*

A. If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (iii) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the Contract and recover from Owner payment on the same terms as provided in Paragraph 15.03.

B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this Paragraph 15.04 are not intended to preclude Contractor from making a Claim under Paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this Paragraph.

ARTICLE 16 - DISPUTE RESOLUTION

16.01 *Methods and Procedures*

A. Either Owner or Contractor may request mediation of any Claim submitted to Engineer for a decision under Paragraph 10.05 before such decision becomes final and binding. The mediation will be

governed by the Construction Industry Mediation Rules of the American Arbitration Association in effect as of the Effective Date of the Agreement. The request for mediation shall be submitted in writing to the American Arbitration Association and the other party to the Contract. Timely submission of the request shall stay the effect of Paragraph 10.05.E.

B. Owner and Contractor shall participate in the mediation process in good faith. The process shall be concluded within 60 days of filing of the request. The date of termination of the mediation shall be determined by application of the mediation rules referenced above.

C. If the Claim is not resolved by mediation, Engineer's action under Paragraph 10.05.C or a denial pursuant to Paragraphs 10.05.C.3 or 10.05.D shall become final and binding 30 days after termination of the mediation unless, within that time period, Owner or Contractor:

1. elects in writing to invoke any dispute resolution process provided for in the Supplementary Conditions, or

2. agrees with the other party to submit the Claim to another dispute resolution process, or

3. gives written notice to the other party of their intent to submit the Claim to a court of competent jurisdiction.

ARTICLE 17 - MISCELLANEOUS

17.01 *Giving Notice*

A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:

1. delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or

2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 *Computation of Times*

A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.03 *Cumulative Remedies*

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 *Survival of Obligations*

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

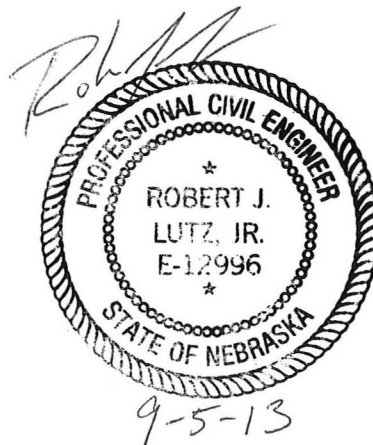
17.05 *Controlling Law*

A. This Contract is to be governed by the law of the state in which the Project is located.

17.06 *Headings*

A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

CONSTRUCTION SPECIFICATIONS



SECTION 01 00 00
GENERAL REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Project summary.
 - 2. Price and Payment Procedures.
 - 3. Administrative Requirements.
 - 4. Submittals.
 - 5. Quality Requirements.
 - 6. Execution Requirements.

1.2 CONTRACT DESCRIPTION

- A. Work of the Project includes construction as shown in Construction Drawings.
- B. Perform Work of Contract under a fixed unit price contract with Owner in accordance with Conditions of Contract.

1.3 APPLICATIONS FOR PAYMENT

- A. Submit three copies of each application.
- B. Payment Period: Monthly.
- C. Allow for 30 days of ENGINEER review to conduct survey and verify measurement for payment before approval of invoice, after CONTRACTOR notifies ENGINEER of substantial completion of construction.

1.4 UNIT PRICES

- A. Unit Price Schedule: as shown on Bid Form.

1.5 FIELD ENGINEERING

- A. The Contractor is responsible for construction staking.

1.6 SUBMITTAL PROCEDURES

- A. Apply Contractor's stamp, signed or initialed, certifying that review, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.

- B. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of completed Work.
- C. Revise and resubmit submittals as required; identify changes made since previous submittal.

1.7 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial progress schedule in duplicate within 15 days after date established in Notice to Proceed for ENGINEER review.
- B. Submit revised schedules with each Application for Payment.

1.8 QUALITY CONTROL

- A. Verify grades and elevations meet construction specifications and final design elevations.

1.9 BARRIERS AND FENCING

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage.

1.10 POLLUTION AND ENVIRONMENTAL CONTROL

- A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.
- B. Provide dust control, erosion and sediment control, noise control, pest control and rodent control to allow for proper execution of the Work.
- C. Provide erosion controls and repairs as required by the SWPPP.
- D. Post SWPPP, CSW-NOI Form, and CSW General NPDES Permit near entrance at project site. Protect documents from rainfall.

1.11 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Clean and repair damage caused by installation or use of temporary work.

1.12 CLOSEOUT PROCEDURES

- A. Submit written certification Contract Documents have been reviewed, Work has been inspected, and Work is complete in accordance with Contract Documents and ready for ENGINEER's inspection.
- B. Submit final Application for Payment identifying total adjusted Contract Sum/Price, previous payments, and amount remaining due.

1.13 FINAL CLEANING

- A. Execute final cleaning prior to final inspection.

1.14 PROTECTING INSTALLED CONSTRUCTION

- A. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 012000

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SCOPE

- A. This section specifies the method of measurement and payment for each Bid Item listed on the Bid Form.
- B. Items for work called for by the Drawings and Specifications, but for which no Bid Item is described, shall be considered subsidiary to the cost of the related bid items.
- C. Costs for all work to be conducted under this contract shall be included under one of the Bid Items.
- D. Payment will be made to the Contractor in accordance with the specified methods of measurement and the unit or lump sum prices stipulated in the accepted bid. Payment will constitute complete compensation for all work required by the Contract Documents including all costs of accepting the general risks, liabilities and obligations, expressed or implied. Payment under all tasks will include, but not necessarily be limited to, compensation for furnishing all supervision, labor, equipment, overhead, profit, material, services, applicable taxes, and for performing all other related work required. No other payment will be made.
- E. No payment shall be made for work performed by the Contractor to replace defective work, work which is not required by the Contract Documents, work outside the limits of the contract and additional work necessary due to actions of the Contractor, unless ordered by the Engineer in writing.

1.2 ENGINEER'S ESTIMATE OF QUANTITIES

- A. The estimated quantities for unit price items, as listed in the Bid Form, are only approximate and are included solely for the purpose of comparison of Bids. The Engineer does not expressly, or by implication, agree that the nature of the materials encountered or required shall correspond therewith and reserves the right to increase or decrease any such quantity or to eliminate any quantity as the Engineer may deem necessary.

1.3 QUANTITIES

- A. The estimated quantities indicated in the Bid Schedule are the quantities estimated for the evaluation of bids. The actual quantities of items to be paid for on a unit price basis may vary significantly from the quantities indicated in the Bid Schedule.

- B. Contractor shall not exceed quantities listed in the Bid Form for any item without written permission of the Engineer. Work that results in changes in quantities that result in an increase in the Contract cost of any item shall be addressed by Change Order, and such work shall not commence until the Change Order is issued. No compensation will be allowed for work completed in excess of the Contract quantities for which prior approval was not granted and a Change Order was not issued.

PART 2 MEASUREMENT

2.1 TOTAL JOB BASIS

- A. Measurement of all lump sum items will be on a total job basis.

2.2 AREA BASIS

- A. Where items are specified to be measured on an area basis, the area will be measured as the actual surface area within the specified limits based on a plan view. If a specified width of an item is indicated, the area will be determined by the actual length along the centerline multiplied by the specified width. No adjustments will be made for the required overlap of materials.

2.3 LENGTH BASIS

- A. Where items are specified to be measured on a length basis, the length will be measured as the actual length along the centerline within specified limits based on a plan view. No adjustments will be made for the required overlap of materials.

2.4 UNIT BASIS

- A. Where items are specified to be measured on a unit basis, measurement will be of each particular unit as specified.

PART 3 BID ITEMS

The scope of the work included in each item and measurement and payment shall be as follows:

3.1 BID ITEM 1 – MOBILIZATION/DEMobilIZATION

- A. Work under this item shall consist of the mobilization and demobilization of the Contractor's forces and equipment necessary to perform the work required under the Contract. This item shall include all bonds, permits, insurance, administration, transportation to and from the site, operating supplies, construction staking, post construction survey, detailed construction layouts, and coordination necessary for the Contractor to provide and maintain a construction force at the project site complete and ready to perform all work required under the Contract.

- B. This pay item is a Lump Sum. Payment of the Contract Lump Sum amount will be made as the work proceeds and will be prorated based on the percentage of work under this item that has been completed. This payment shall be full compensation for all material, equipment, labor, disposal, and incidentals required to complete the work.

3.2 BID ITEM 2 –EXCAVATION AND DISPOSAL

- A. Work under this item shall consist of excavating as shown on the Drawings or as approved by Engineer, as defined in the Specifications and Drawings.
- B. This pay item is a Lump Sum. Payment of the Contract Lump Sum amount will be made as the work proceeds and will be prorated based on the percentage of work under this item that has been completed. This payment shall be full compensation for all material, equipment, labor, disposal, and incidentals required to complete the work.

3.3 BID ITEM 3 – REPLACE OR LOWER CMP CULVERT

- A. Work under this item shall consist of all preparation, removal of existing pipe, excavation, bedding fill, backfill, compacting, assembly, repair of damaged coating and other materials, restoration of the driveway above the pipe, and incidental items necessary to install the pipe, as defined in the Specifications and Drawings.
- B. New 24” round equivalent CMP culverts are being provided by the Lincoln County Highway Department. Contractor is responsible for transporting pipe to job site from Lincoln County Highway Department facility at: 2010 Rodeo Road, North Platte, NE. Existing in-place culverts which are removed and replaced are the property of the Lincoln County Highway Department and are to be transported to the same address after removal.
- C. The pay unit for this item is made on a unit basis. Payment for this Unit Price item will be made at the Contract Unit Price given in the Bid Form as the work proceeds. Payment shall be full compensation for all equipment, fuel, labor, materials, analysis, and performing all operations necessary for installing the pipe, and all related requirements as indicated in the Specifications and Drawings.

3.4 BID ITEM 4 – SEEDING AND MULCHING

- A. Work under this item shall consist of all preparation, seed, other materials, and incidental items necessary to seed and mulch areas as defined on the Specifications and Drawings.
- B. This pay item is a Lump Sum. Payment of the Contract Lump Sum amount will be made as the work proceeds and will be prorated based on the percentage of work under this item that has been completed. This payment shall be full compensation for all material, equipment, labor, disposal, and incidentals required to complete the work.

3.5 BID ITEM 5 – TURF REINFORCEMENT MAT

- A. Work under this item shall consist of installation of turf reinforcement mat, required accessories, and other materials, and incidental items necessary to install the material, as defined in the Specifications and Drawings.
- B. Measurement is on the area basis, in accordance with the Drawings and Specifications.
- C. The pay unit for this item is one square yard. Payment for this Unit Price item will be made at the Contract Unit Price given in the Bid Form as the work proceeds. Payment shall be full compensation for all equipment, fuel, labor, materials, analysis, and performing all operations necessary for installing the mat, and all related requirements as indicated on the Drawings and as specified.

END OF SECTION

SECTION 31 23 16

EXCAVATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes all excavation required for the construction of the project.

1.2 REFERENCES

- A. Local utility standards when working within 24 inches of utility lines.
- B. The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.
 - 1. U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)
 - a. 29 CFR 1926 Safety and Health Regulations for Construction

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 PREPARATION

- A. Identify utilities.
- B. Identify required lines, levels, contours, and datum.
- C. Prevent damage to trees.
- D. Protect bench marks and survey control points from excavating equipment and vehicular traffic.

3.2 SURVEY

- 1. Contractor shall place construction layout stakes.

3.3 EXCAVATION

- A. Underpin adjacent structures which may be damaged by excavation work.
- B. Grade top perimeter of excavation to prevent surface water from draining into excavation.
- C. Trim excavation. Remove loose matter.
- D. Notify Engineer of unexpected subsurface conditions.
- E. Stockpile topsoil to be spread over areas of fill.
- F. Utilize suitable material for the fill required by the plans.
- G. Remove excess and unsuitable material from site.
- H. Repair or replace items indicated to remain damaged by excavation.

3.4 FIELD QUALITY CONTROL

- A. Request visual inspection of bearing surfaces by Engineer before installing subsequent work.

3.5 PROTECTION

- A. Prevent displacement or loose soil from falling into excavation; maintain soil stability.
- B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.
- C. Protect structures, utilities and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth operations.

END OF SECTION

SECTION 31 23 23

FILL

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Back fill for pipe culverts.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort.

PART 2 PRODUCTS

2.1 FILL MATERIALS

- A. Fill materials shall be excavated on site.
- B. Top soil excavated on site shall be used for topdressing fill areas.

PART 3 EXECUTION

3.1 PREPARATION

- A. Foundations for fill shall be stripped to remove vegetation and other unsuitable material.

3.2 SURVEY

- A. The Contractor is responsible for construction staking and providing post construction survey data to the Engineer to verify slopes, grades, and pipe elevations.

3.3 BACKFILL

- A. Backfill areas to existing contours and elevations with unfrozen material.
- B. Do not backfill over porous, wet, frozen or spongy subgrade surfaces, unless Engineer has authorized the fill.
- C. Employ placement method that does not disturb or damage other work.

3.4 COMPACTION

- A. The Contractor shall compact fill to a minimum of 95% of the maximum dry density in accordance with ASTM D698. Material that is shown to be less than 95% of the maximum dry density shall be reworked by the Contractor and retested until the material meets the compaction requirement at no additional cost to the Owner.

3.5 MOISTURE CONTENT

- A. The fill material shall have a moisture content sufficient to obtain compaction.
- B. The following field tests will identify materials with a sufficient moisture content.
 - 1. For clays and silts, the moisture content shall be such that a ball formed with the hands does not crack or separate when struck sharply and will easily ribbon out between the thumb and finger.
 - 2. For sand-silt and sand-clay mixtures, the moisture shall be such that a mold can be formed which readily breaks and crumbles with pressure.
 - 3. For sand containing a small percentage of clay or silt, moisture is not required to be adjusted.
- C. The application of water to the fill materials shall be accomplished at the borrow areas insofar as possible.

3.6 TESTING

- A. During the course of the work, the Contractor shall perform quality control tests, as required by the Engineer, to identify earthfill materials; determine the reference maximum density and optimum moisture content; and document that the moisture content of material at the time of compaction and the density of earthfill in place conform to the requirements of this specification. Testing reports shall be submitted to the Engineer.

END OF SECTION

SECTION 32 92 19

SEEDING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Placing topsoil.
 - 2. Seeding.
 - 3. Mulching.
 - 4. Turf reinforcement and erosion control.
 - 5. Maintenance.
- B. Related Sections:
 - 1. Section 312323 - Backfill: Topsoil material.

1.2 DEFINITIONS

- A. Weeds: Vegetative species other than specified species to be established in given area.

1.3 SUBMITTALS

- A. Product Data: Submit data for seed mix, fertilizer, mulch, geotextiles, and other accessories.
- B. Test Reports: Indicate topsoil nutrient and pH levels with recommended soil supplements and application rates.
- C. Manufacturer's Certificate: Certify seed mix and geotextiles meet or exceed specified requirements.
- D. Seed tags, certifications and weigh tickets.
- E. Mulch certifications and weigh tickets.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Include maintenance instructions, cutting method and maximum grass height; types, application frequency, and recommended coverage of fertilizer.

1.5 QUALITY ASSURANCE

- A. Provide seed mixture in containers showing percentage of seed mix, germination percentage, inert matter percentage, weed percentage, year of production, net weight, date of packaging, and location of packaging.

1.6 QUALIFICATIONS

- A. Seed Supplier: Company specializing in manufacturing Products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing work of this section with minimum 3 years documented experience or approval of Owner.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver grass seed mixture in sealed containers. Seed in damaged packaging is not acceptable.

1.8 MAINTENANCE SERVICE

- A. Maintain seeded areas immediately after placement until grass is well established and exhibits vigorous growing condition over 80% of seeded area.
- B. Reseed areas as needed until 80% of areas required to be seeded exhibit vigorous growing conditions.

PART 2 PRODUCTS

2.1 SEED MIXTURE

- A. The seed mixture shall be “Dryland Pasture Mix” interseeded with 15-20% winter wheat as a cover crop (or approved equivalent).

2.2 MULCH

- A. Native grass hay (certified noxious weed free) with viable seed; 4,000 lb/acre.
- B. Native or introduced grass hay (certified noxious weed free); 4,000 lb/acre.
- C. Legume hay (certified noxious weed free); 4,000 lb/acre.
- D. Straw (certified noxious weed free); 4,000 lb/acre.

2.3 SOIL MATERIALS

- A. Topsoil: Excavated from site in accordance with Section 31 23 23 – Fill.

2.4 ACCESSORIES

- A. Water: Clean, fresh and free of substances or matter capable of inhibiting vigorous growth of grass.

- B. Turf Reinforcement Mat: North American Green P300 Permanent Turf Reinforcement Mat, or equivalent.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify prepared soil base is ready to receive the Work of this section.

3.2 PREPARATION OF SATISFACTORY EARTHFILL

- A. Prepare sub-soil to eliminate uneven areas and low spots. Maintain lines, levels, profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
- B. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated sub-soil.
- C. Scarify subsoil to depth of 3 inches where topsoil is to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted sub-soil.

3.3 PLACING TOPSOIL

- A. Spread topsoil to minimum depth of 3 inches over area to be seeded. Rake until smooth.
- B. Place topsoil during dry weather and on dry unfrozen subgrade.
- C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
- D. Grade topsoil to eliminate rough, low or soft areas, and to ensure positive drainage.
- E. Place in accordance with erosion control mat, turf reinforcement mat and articulating concrete mat manufacturer's recommendations and the Drawings.

3.4 SEEDING

- A. Apply seed at rate specified.
- B. Do not sow immediately following rain, when ground is too dry, or when winds are over 12 mph.
- C. Place seed in accordance with erosion control mat, turf reinforcement mat and articulating concrete mat manufacturer's recommendations and the Drawings.
- D. Seed all disturbed areas.
- E. Mulch all disturbed areas other than areas with erosion control mat, turf reinforcement mats and articulating concrete mat.

3.5 MAINTENANCE

- A. Control growth of weeds. Apply herbicides. Remedy damage resulting from improper use of herbicides.
- B. Immediately reseed areas showing bare spots.
- C. Repair washouts or gullies.

END OF SECTION

SECTION 33 42 13

PIPE CULVERTS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Corrugated steel pipe culvert.
 - 2. Joints and accessories.
 - 3. Bedding.
- B. Related Sections
 - 1. Section 31 23 16 - Excavation and Fill: Excavating for culvert piping.
 - 2. Section 31 23 23 - Fill: Backfilling over piping up to final elevation.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM A929/A929M - Standard Specification for Steel Sheet, Metallic-Coated by the Hot-Dip Process for Corrugated Steel Pipe.

1.3 SUBMITTALS

- A. Product Data: Submit data on pipe, fittings and accessories.
- B. Manufacturer's Installation Instructions: Submit special procedures required to install Products specified.

PART 2 PRODUCTS

2.1 STEEL CULVERT PIPE & RISER

- A. 24" round equivalent CMP culverts are being provided by the Lincoln County Highway Department. Contractor is responsible for transporting pipe to job site from Lincoln County Highway Department facility at: 2010 Rodeo Road, North Platte, NE.

2.2 BEDDING AND COVER MATERIALS

- A. Bedding and Cover: Fill, as specified in Section 31 23 23.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify backfill is ready to receive work and excavations, dimensions, and elevations are as indicated on layout Drawings.

3.2 PREPARATION

- A. Remove large stones or other hard matter which could damage piping or impede consistent backfilling or compaction.

3.3 EXCAVATION AND BEDDING

- A. Excavate culvert trench to 6 inches below pipe invert, in accordance with Section 312316 for work of this Section. Hand trim excavation for accurate placement of pipe to elevations indicated.
- B. Place bedding material at trench bottom, level fill materials in one continuous layer not exceeding 8 inches compacted depth, compact in accordance with Section 312323.
- C. Maintain optimum moisture content of bedding material to attain required compaction density.

3.4 INSTALLATION - PIPE

- A. At locations shown on Drawings.
- B. Lift or roll pipe into position. Do not drop or drag pipe over prepared bedding.
- C. Shore pipe to required position; retain in place until after compaction of adjacent fills. Ensure pipe remains in correct position and to required slope.
- D. Repair surface damage to pipe protective coating with two coats of compatible bituminous paint coating.
- E. Install cover at sides and over top of pipe. Install top cover to minimum compacted thickness of 12 inches in accordance with Section 312323 - Backfill.
- F. Maintain moisture content of bedding material to attain required compaction density in accordance with Section 312323 – Backfill.

3.5 ERECTION TOLERANCES

- A. Lay pipe to alignment and slope gradients noted on Drawings; with maximum variation from indicated slope of 1/8 inch in 10 feet.
- B. Maximum Variation From Intended Elevation of Culvert Invert: 1/2 inch.

C. Maximum Offset of Pipe From Indicated Alignment: 3 feet.

D. Maximum Variation in Profile of Structure From Intended Position: 1 percent.

3.6 FIELD QUALITY CONTROL

A. When tests indicate Work does not meet specified requirements, remove Work, replace and retest.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

A. Protect pipe and bedding from damage or displacement until backfilling operation is in progress.

3.8 DRIVE RESTORATION

A. Drives that are disturbed for culvert installation shall be restored similar to the original condition (including thickness and material)

1. Concrete drives shall be removed and replaced in full panels. No partial panels shall be cut out. Culvert alignment may be adjusted slightly to avoid replacement of two panels.
2. Asphalt drives shall be replaced with Lincoln County Type B Asphalt.
3. A minimum of 12 inches of cover over the culverts shall be provided.

END OF SECTION

SPECIAL PROVISIONS

These Special Provisions amend or supplement the Technical Specifications of the Construction Contract, and other provisions of the Contract Documents as may be indicated below. All Technical Specifications so referenced that are not so amended or supplemented remain in full force and effect.

1. DEFINITIONS AND PRINCIPLES

FOUNDATION

For the purpose of this Contract, FOUNDATION refers to the Nebraska Community Foundation, Inc. of Lincoln, Nebraska.

PROGRAM

For the purpose of this Contract, PROGRAM refers to the Platte River Recovery Implementation Program.

Engineer

For the purpose of this Contract, Headwaters Corporation will serve as the Engineer. The Engineer may in writing designate a Resident Project Representative (RPR) who shall carry out the Engineer's functions as set forth in the Supplementary Conditions (00 73 00).

Contracting Officer

For the purpose of this Contract, the Executive Director of the PROGRAM will serve as the Contracting Officer. The Contracting Officer may designate, in writing, a representative(s) who shall carry out the Contracting Officer's functions as set forth below. In all cases as provided for in this document, the powers, authorities, rights and responsibilities of the Contracting Officer shall also extend to the Contracting Officer's designated representative(s). Reference to the Contracting Officer herein shall apply to the Contracting Officers designated representative if any.

The Contracting Officer will appoint a representative that will function as the coordinator between the CONTRACTOR and the PROGRAM.

The Contracting Officer shall assist the Engineer with the execution of the technical aspects of the project, to include inspection, and shall, supervise the administrative and other non-technical aspects of the Contract Documents.

The Contracting Officer shall have the authority to stop the work, or to require and direct the CONTRACTOR to properly comply with the Contract Documents. In the event of a dispute as to the intent of non-technical portions of the Contract Documents, the Contracting Officer shall have the right to correct any errors or omissions at any time such corrections are necessary. In the case of any dispute

or disagreement in regard to the drawings, specifications or other technical documents, the Contracting Officer, upon consultation with the Engineer, shall provide for amendments to the Contract Documents as required.

2. PROGRAM RIGHT TO DO WORK

The PROGRAM and/or its employees, agents or assigns shall be responsible for the following items related to the work

- Obtaining the Construction Storm Water General NPDES Permit Number NER110000
- Obtaining permit to occupy right of way from Nebraska Department of Roads
- Obtaining a lease from Tenant for work to be completed by CONTRACTOR

3. UNEMPLOYMENT AND WORKMEN'S COMPENSATION INSURANCE

Before issuing a Notice to Proceed, the CONTRACTOR and all subcontractors shall furnish proof of registration with the Employment Security Commission and the Workmen's Compensation Division as required by Nebraska Statutes.

A current letter obtained directly from the Employment Security Commission and the Workers Compensation Division shall be submitted as evidence of compliance with this requirement. Proof that the CONTRACTOR and all Subcontractors are still registered at the time of completion of construction shall be submitted prior to Final Acceptance of the Project.

4. PROJECT ACCESS

CONTRACTOR access the site is presented on the construction drawings. The CONTRACTOR shall be responsible to keep access roads graded and suitable for use by the CONTRACTOR and/or their Subcontractors as well as by the PROGRAM and/or its representatives.

In the event that the PROGRAM and/or their representatives discover equipment, appliances or tools that are leaking excessive petrochemical products (i.e., fuel, oil or other lubricants), the CONTRACTOR and/or their sub-contractors shall be instructed to remove the vehicle, equipment, appliance or tool with the leak until such time that the leak is repaired.

If access through the adjoining private properties becomes necessary, it must be done with extreme caution. The PROGRAM, on the information provided by the landowners, will mark known underground items such as septic systems, residential drainage and wells. The CONTRACTOR shall take every precaution to prevent damage to said properties and shall be held responsible for repairs to septic systems, drainage pipes or wells.

The CONTRACTOR shall be responsible for reviewing the site and informing themselves fully regarding site peculiarities and limitations of space available.

5. STAGING AND STORAGE AREA

The primary staging area will be identified in the field by the Engineer.

The CONTRACTOR shall at all time keep their staging area clean and free of an accumulation of debris and rubbish. All areas used for storage or staging will be cleaned and restored within ten (10) days of completion of the project.

6. REMOVAL OF MATERIALS

Unless a specific item or material is noted to remain the property of the PROGRAM's and/or the effected private property owners, or said item is specified as being owed by the CONTRACTOR, all items will be inspected by the Contracting Officer to determine to need to retain the item. If the material is designated as scrap, the CONTRACTOR will remove the item from site.

7. CONTROL OF PERSONS AND TRAFFIC ON SITE

The CONTRACTOR shall control the actions of its employees, agents or assigns, as well as its subcontractors and their employee, agents or assigns working on the site working and shall enforce all regulations.

The CONTRACTOR shall be responsible for traffic control on the public roadways as may be necessary to access the work site with trucks, equipment and/or materials.

The PROGRAM and NPPD retains the right to visit the site with other agencies and interested parties when needed. The PROGRAM will coordinate access with the CONTRACTOR and will access the site such that the work of the CONTRACTOR is not hindered or delayed.

8. PROTECTION OF PERSONS AND PROPERTY

The CONTRACTOR shall take special precautions to insure that adequate safety is provided to personnel at all times during construction operations.

Temporary items such as, but not limited to, staging, lifting and hoisting devices, excavation barricades, and safety and construction procedures necessary to complete the project shall be the responsibility of the CONTRACTOR and its subcontractors, and shall comply with all applicable codes and regulations. Nebraska Occupational Health and Safety Rules and Regulations shall be complied with in their entirety. It shall not be the responsibility of the OWNER to determine if the CONTRACTOR, subcontractors or their representatives are in compliance with the aforementioned regulations.

9. CONSTRUCTION LIMITS

Construction limits for the Work are defined on the construction drawings. CONTRACTOR shall coordinate with OWNER to confirm construction limits associated with the work at each project site. Lincoln County Highway Department will stake right of way extents. All work is

to take place within county right of way.

No other disturbance shall be allowed on private property unless specifically authorized. Care shall be taken to protect existing structures and fences. CONTRACTOR shall be liable for all damages to private property.

10. HOURS OF WORK

From December 15 to February 15 and within a 0.25 mile area around a known eagle roost, site activity should occur beginning one (1) hour after sunrise and finishing one hour (1) before sunset to minimize disturbance of the roost.

If one contractor requires the service of another contractor beyond the standard working hours, the CONTRACTOR requiring the extra service shall be responsible for any costs associated with the other contractor working extra hours.

11. EXISTING UNDERGROUND UTILITIES

There are no utilities known to the PROGRAM (buried) in the work area.

The CONTRACTOR shall be responsible for contacting Diggers Hotline of Nebraska five (5) days prior to the start of construction at (800) 331-5666, for the purpose of locating any underground utilities. Identification and location of utilities is the sole responsibility of the CONTRACTOR.

12. PRE-CONSTRUCTION MEETING

Within five (5) days of award of this Contract, the Contracting Officer shall arrange a meeting at the job site. This meeting shall include the CONTRACTOR in addition to the Engineer, Contracting Officer and all substantial subcontractors.

At the Pre-construction Meeting, each CONTRACTOR shall explain their anticipated procedures on site in detail and shall provide a progress schedule for review.

13. TIME OF COMPLETION AND SEQUENCE OF OPERATIONS

Time frames as contained in this section are the product of the Engineer's estimate. Reasonable adjustments in the time frames allowed for each component may be approved by the PROGRAM upon review of the CONTRACTOR's schedule for progression of work which is to be reviewed at the pre-construction meeting.

Work shall be completed As Soon As Possible but no later than the dates listed in the Agreement unless approved by the PROGRAM.

The final sequencing of construction items will be according to a schedule mutually agreed upon by all parties.

14. PROJECT LAYOUT AND CONTROLS

The PROGRAM is responsible for verification of CONTRACTOR's work against the

Project Drawings and specifications.

15. CONTACTS

Administrative Point of Contact (Foundation):

Diane M. Wilson
Chief Financial and Administrative Officer
Nebraska Community Foundation
PO Box 83107
Lincoln, Nebraska 68501-3107
Phone: (402) 323-7330
Fax: (402) 323-7349
Email: dwilson@nebcommfound.org

Admin. Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director
Platte River Recovery Implementation Prog.
Headwaters Corporation
4111 4th Ave., Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Fax: (308) 237-4651
Email: kennyj@headwaterscorp.com

Technical Point of Contact (Program):

Justin Brei, P.E., Biosystems Engineer
Platte River Recovery Implementation Prog.
Headwaters Corporation
4111 4th Ave., Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Fax: (308) 237-4651
Email: breij@headwaterscorp.com

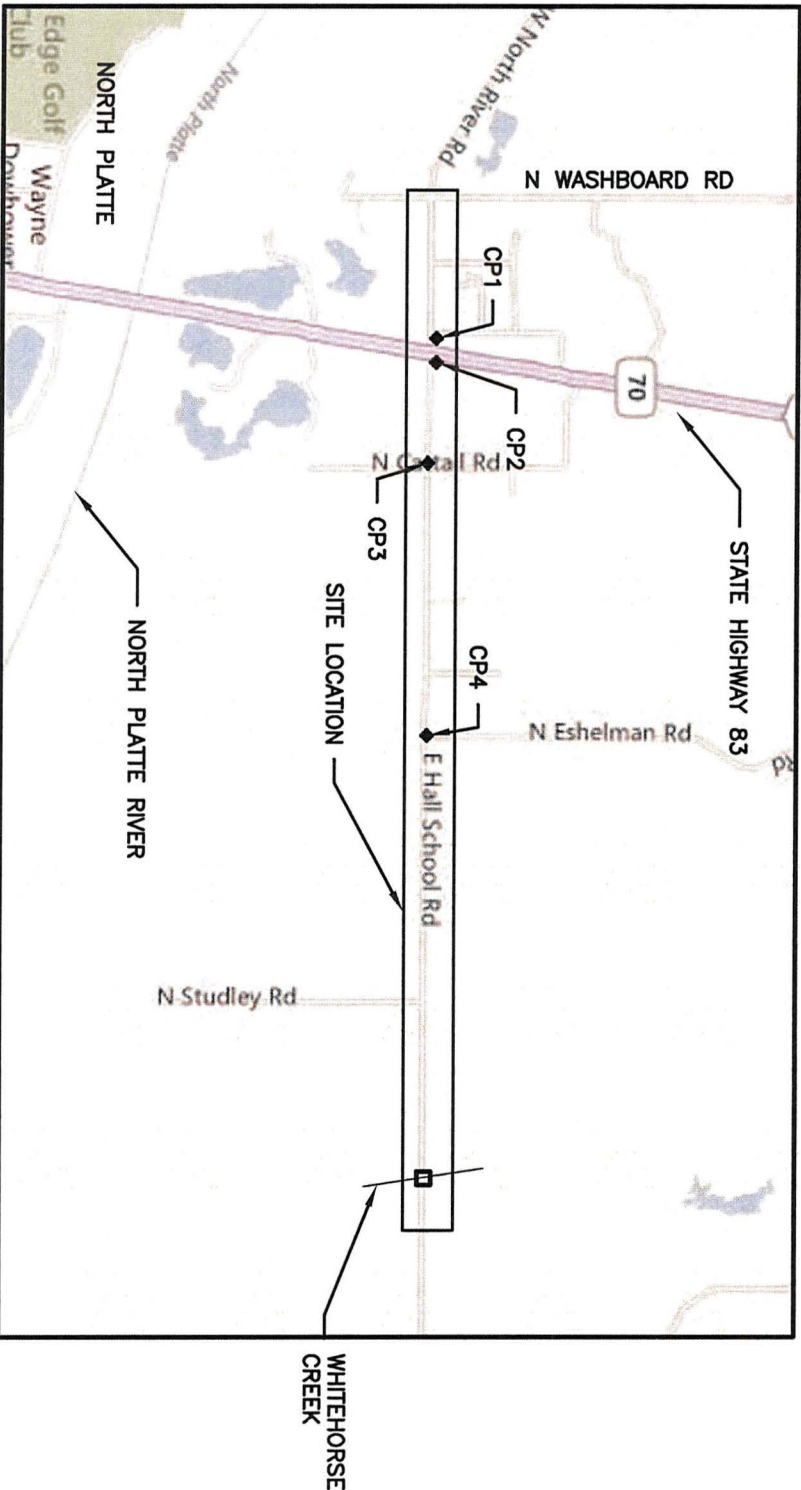
Media Point of Contact (Program):

Dr. Bridget Barron, Director of Outreach
Platte River Recovery Implementation Prog.
Headwaters Corporation
4111 4th Ave., Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Fax: (308) 237-4651
Email: barronb@headwaterscorp.com

END OF SPECIAL PROVISIONS

DRAWINGS

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM WHITEHORSE CREEK DRAINAGE PROJECT NORTH PLATTE, NEBRASKA

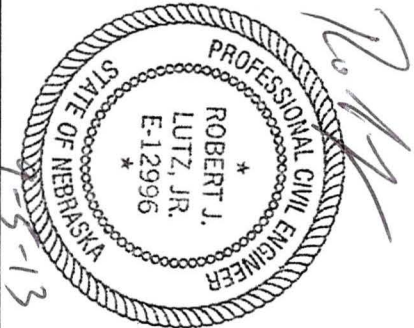



SOURCE: GOOGLE MAPS

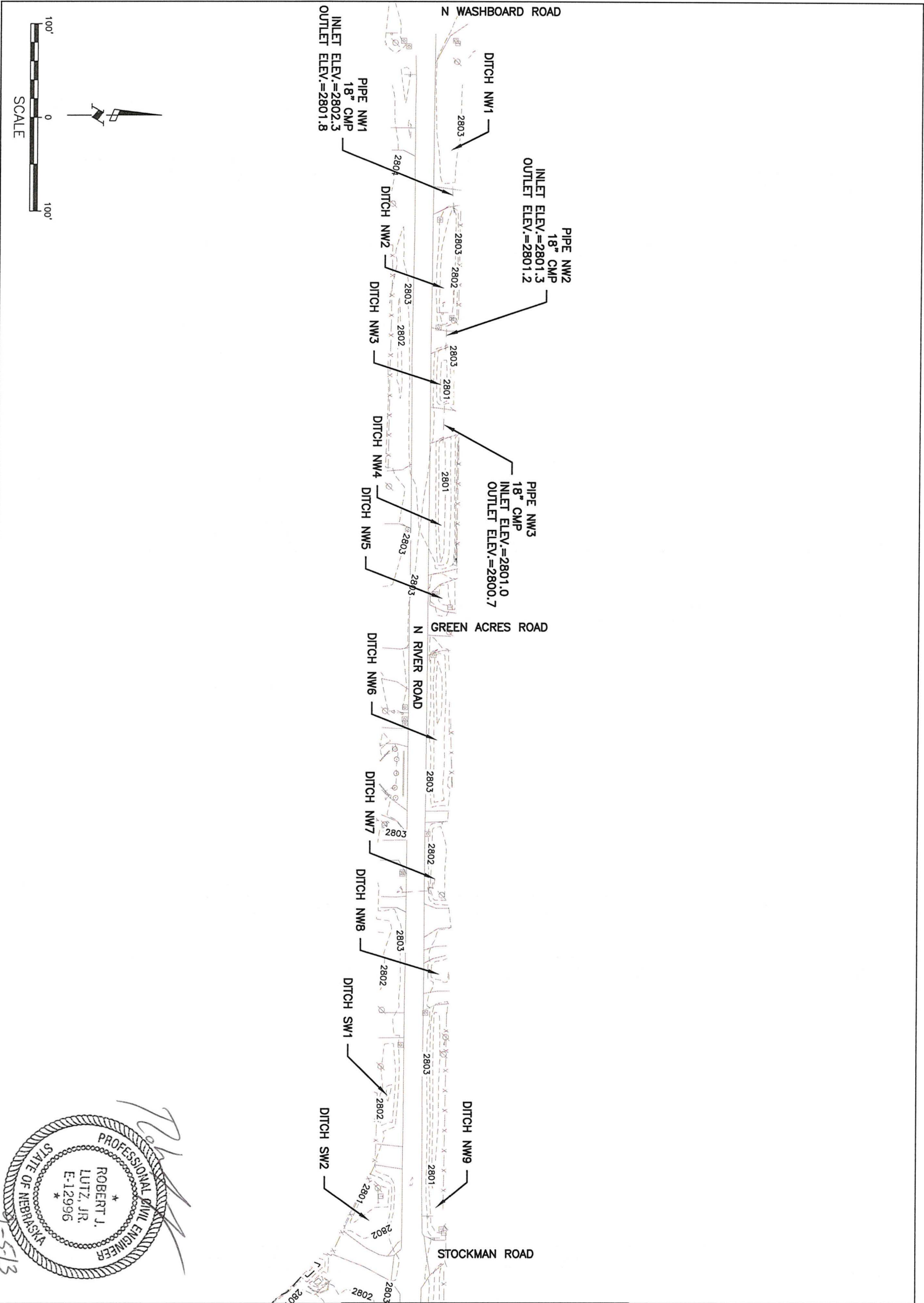
VICINITY MAP

CAUTION!
BEFORE YOU DIG CALL
IT IS CONTRACTOR'S RESPONSIBILITY TO NOTIFY
THE NEBRASKA "ONE CALL" SYSTEM REGARDING
UTILITIES IN THE CONSTRUCTION SITE.
DIGGER'S HOTLINE OF NEBRASKA
1-800-331-5666


INDEX OF SHEETS	
FIGURE	DESCRIPTION
1	COVER SHEET
2-9	EXISTING CONDITIONS
10-18	PROPOSED IMPROVEMENTS & PROFILES
19	CONSTRUCTION STAKING POINT TABLES
20	DETAILS
21	PIPE AND DITCH SUMMARY TABLES



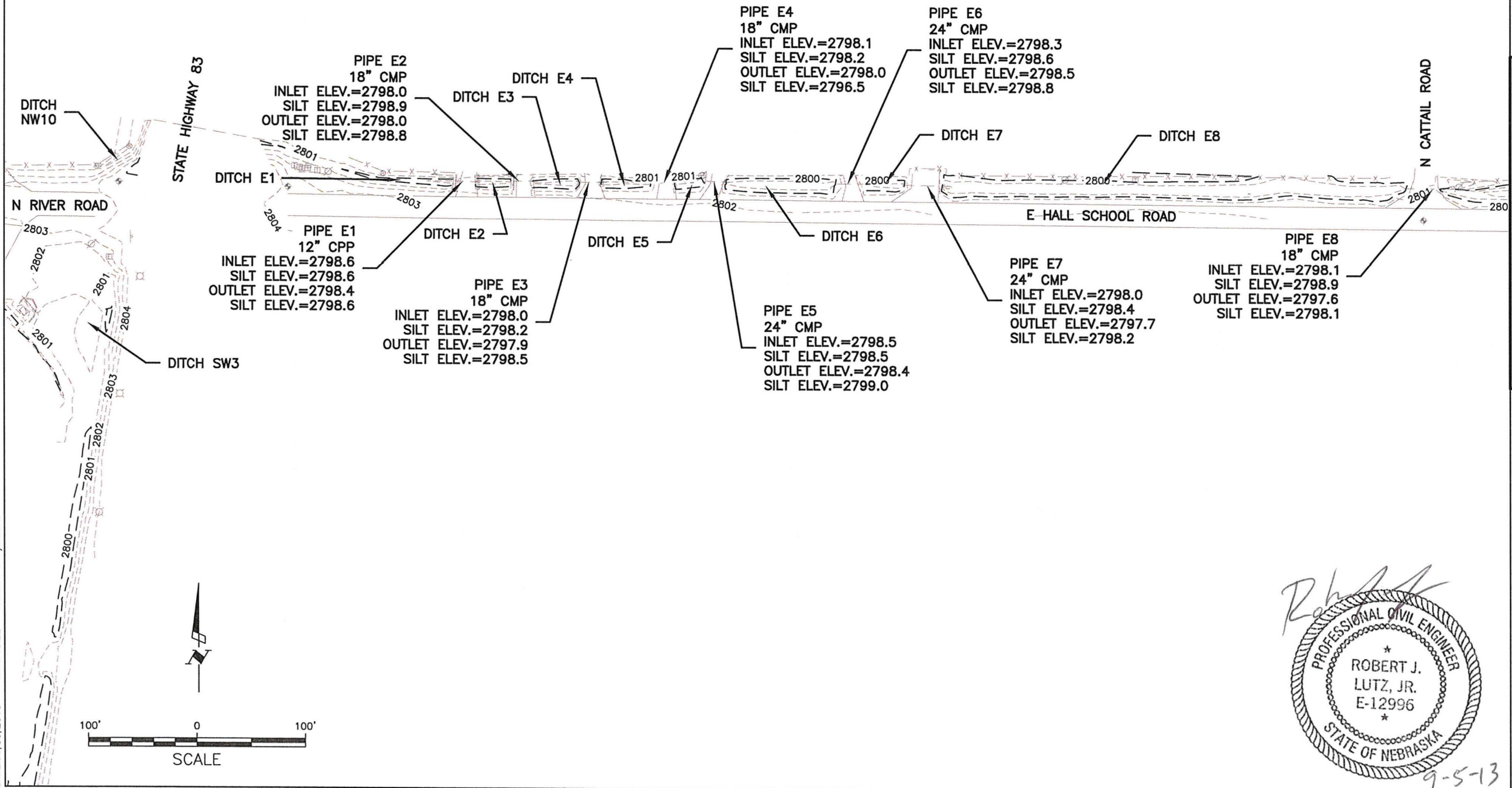
 EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.			PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM WHITEHORSE CREEK DRAINAGE PROJECT NORTH PLATTE, NEBRASKA			COVER SHEET			
PROJECT MGR. DS	DESIGNED BY RJL	DRAWN BY JRM	CHECKED BY DS	DATE SEPT. 2013	SCALE AS SHOWN	PROJECT NO. 1482203	FILE NAME —	DRAWING NO. —	FIGURE 1



PROFESSIONAL CIVIL ENGINEER
ROBERT J. LUTZ, JR.
E-12996
STATE OF NEBRASKA

 EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.			PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM WHITEHORSE CREEK DRAINAGE PROJECT NORTH PLATTE, NEBRASKA			EXISTING CONDITIONS			
PROJECT MGR. DS	DESIGNED BY RJL	DRAWN BY JRM	CHECKED BY DS	DATE SEPT. 2013	SCALE AS SHOWN	PROJECT NO. 1482203	FILE NAME —	DRAWING NO. —	FIGURE 2

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DATE: 06/03/2013 TIME: 13:22 DRAWN BY: jmath



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WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

EXISTING CONDITIONS

PROJECT MGR. DS
DESIGNED BY RJL
DRAWN BY JRM
CHECKED BY DS

DATE SEPT. 2013

SCALE AS SHOWN

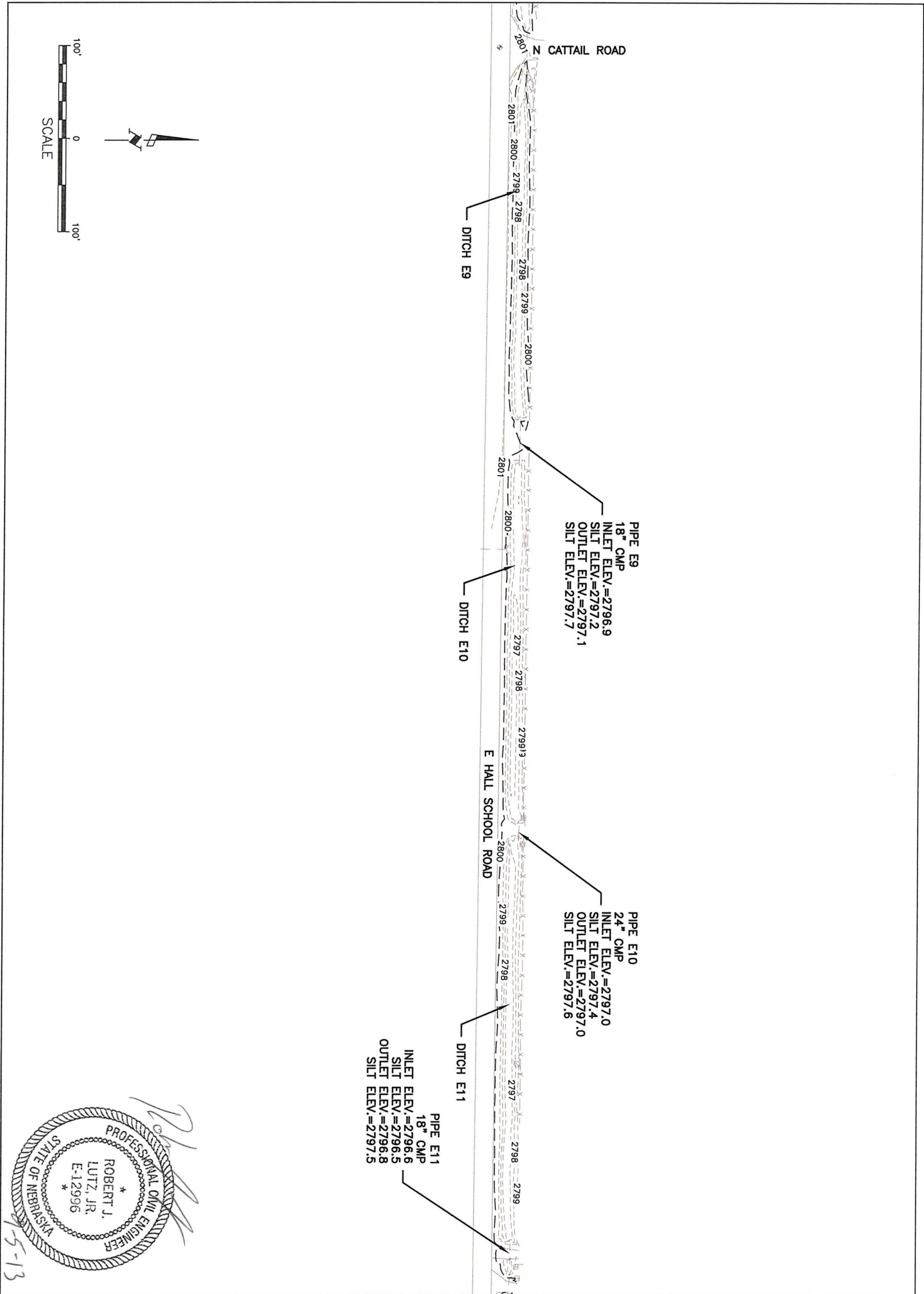
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DRAWING NO. -

FIGURE -

3



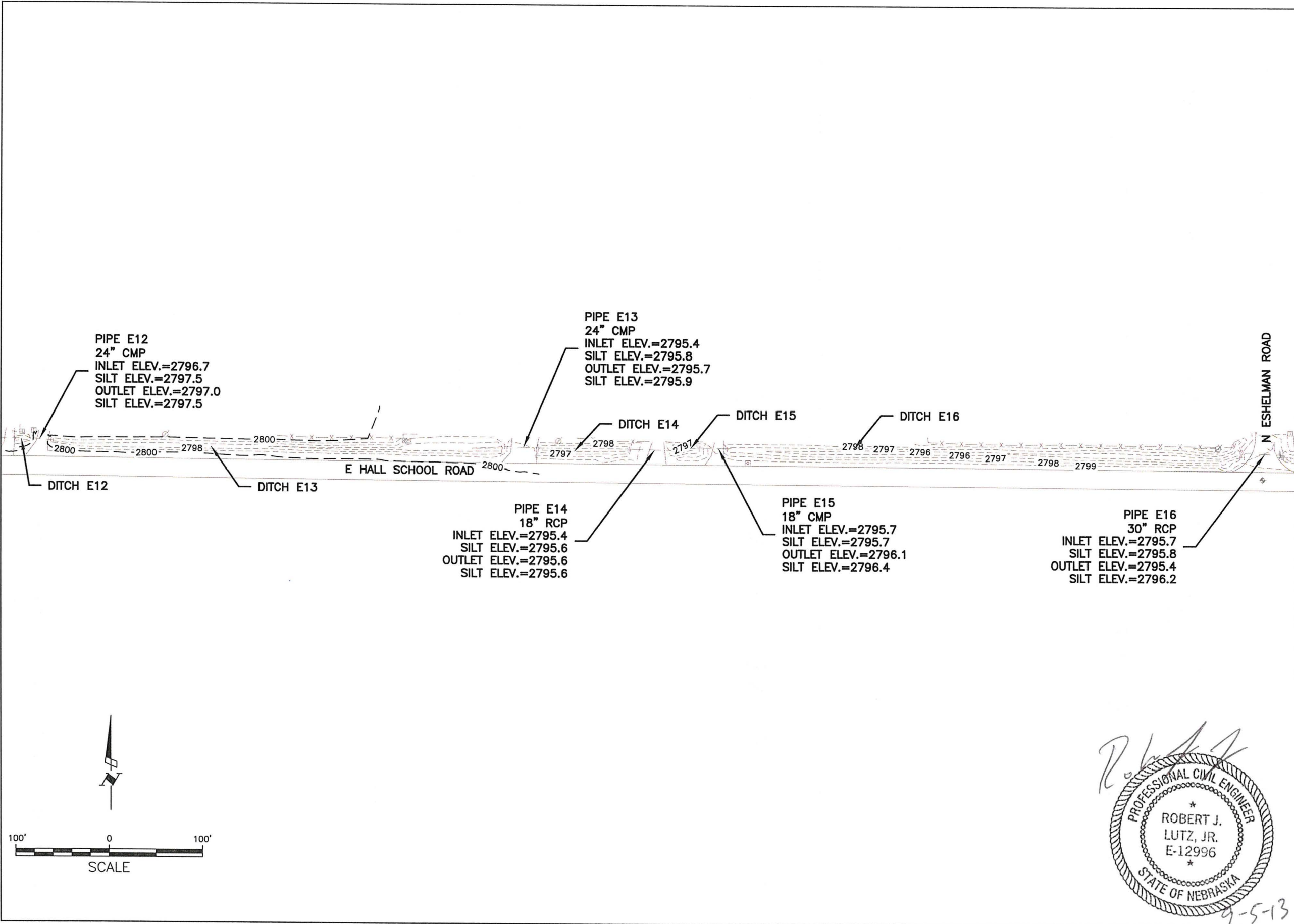
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WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

EXISTING CONDITIONS

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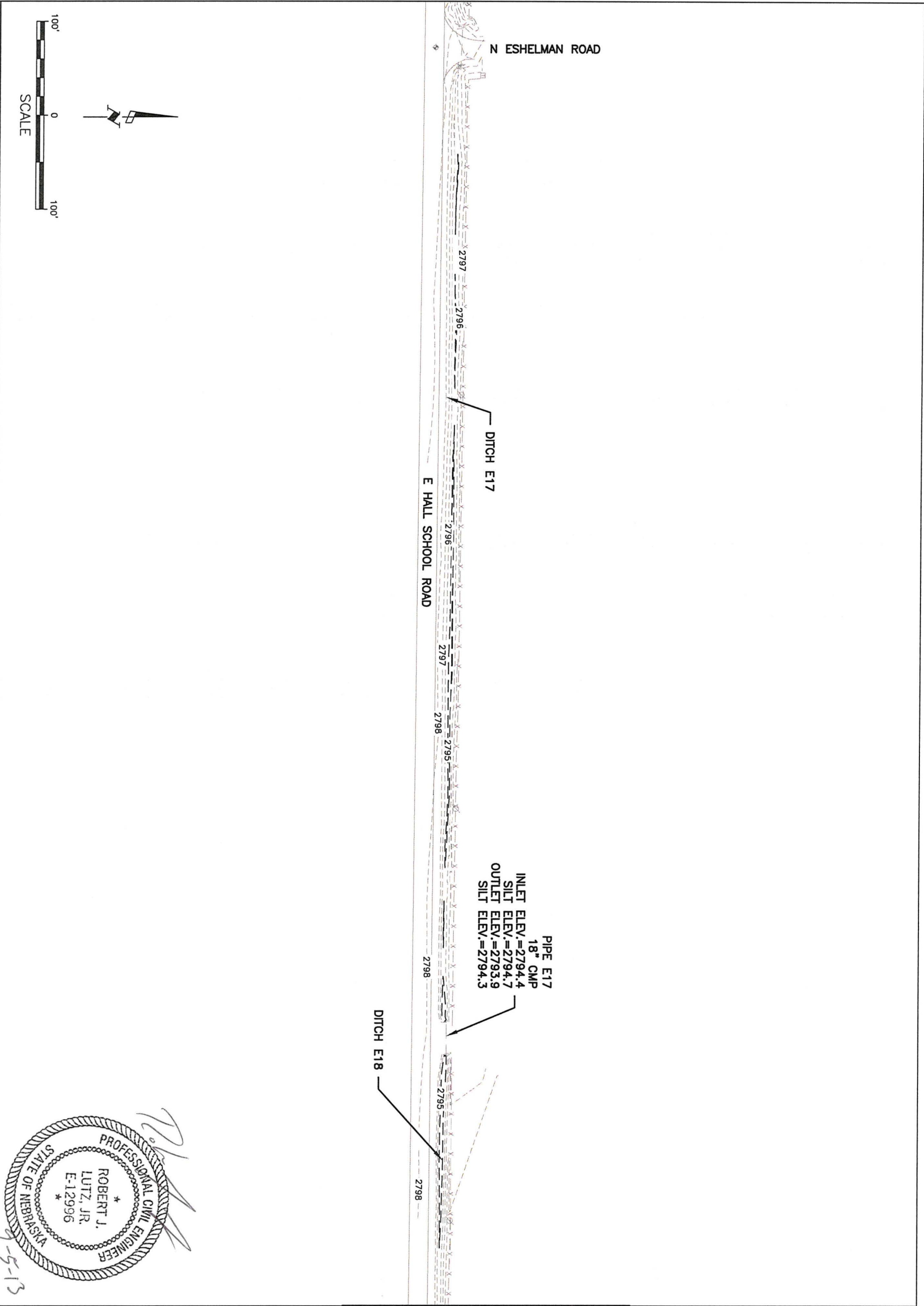



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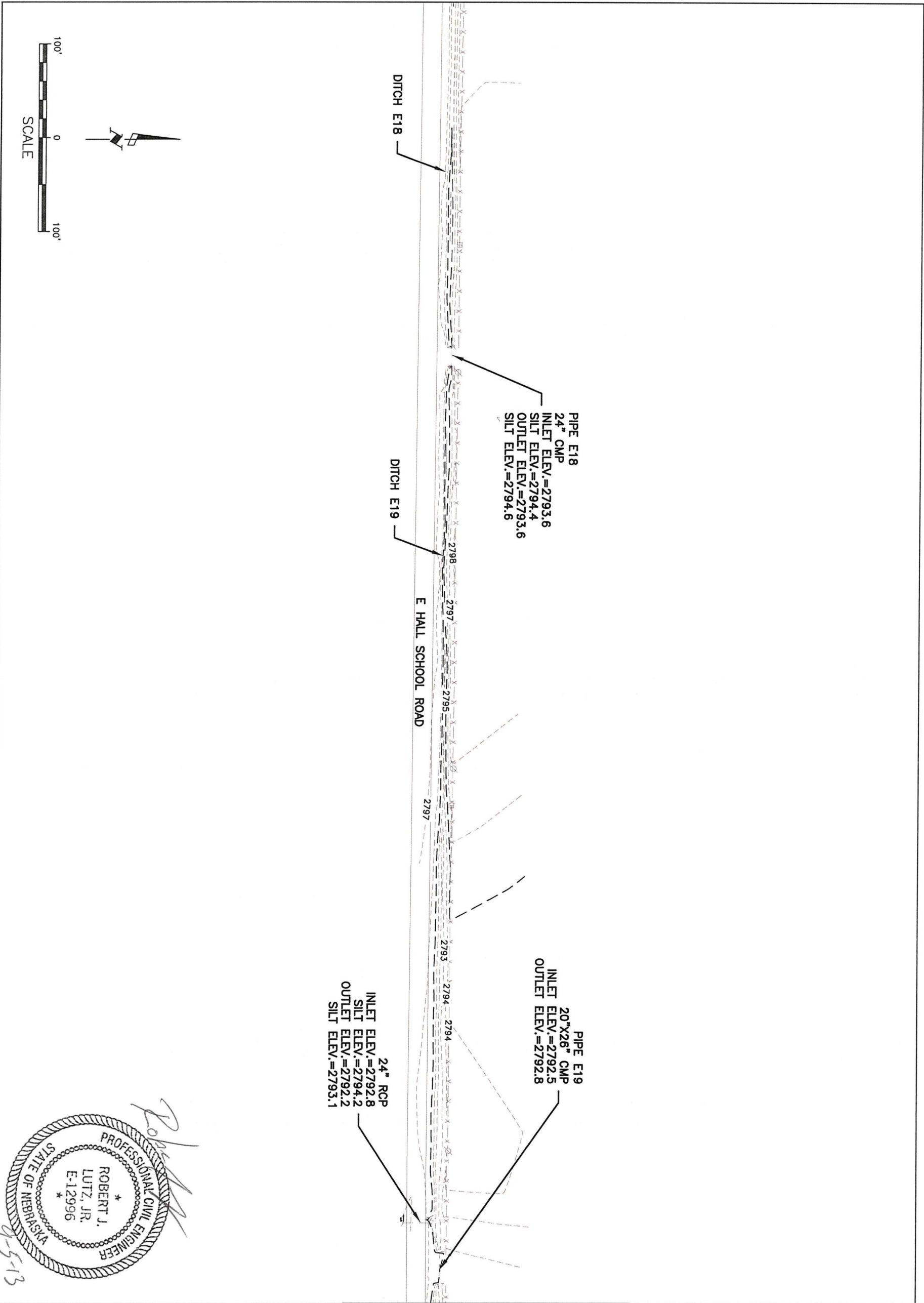
PLATTE RIVER RECOVERY
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WHITEHORSE CREEK DRAINAGE PROJECT
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EXISTING CONDITIONS

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 EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.			PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM WHITEHORSE CREEK DRAINAGE PROJECT NORTH PLATTE, NEBRASKA				EXISTING CONDITIONS		
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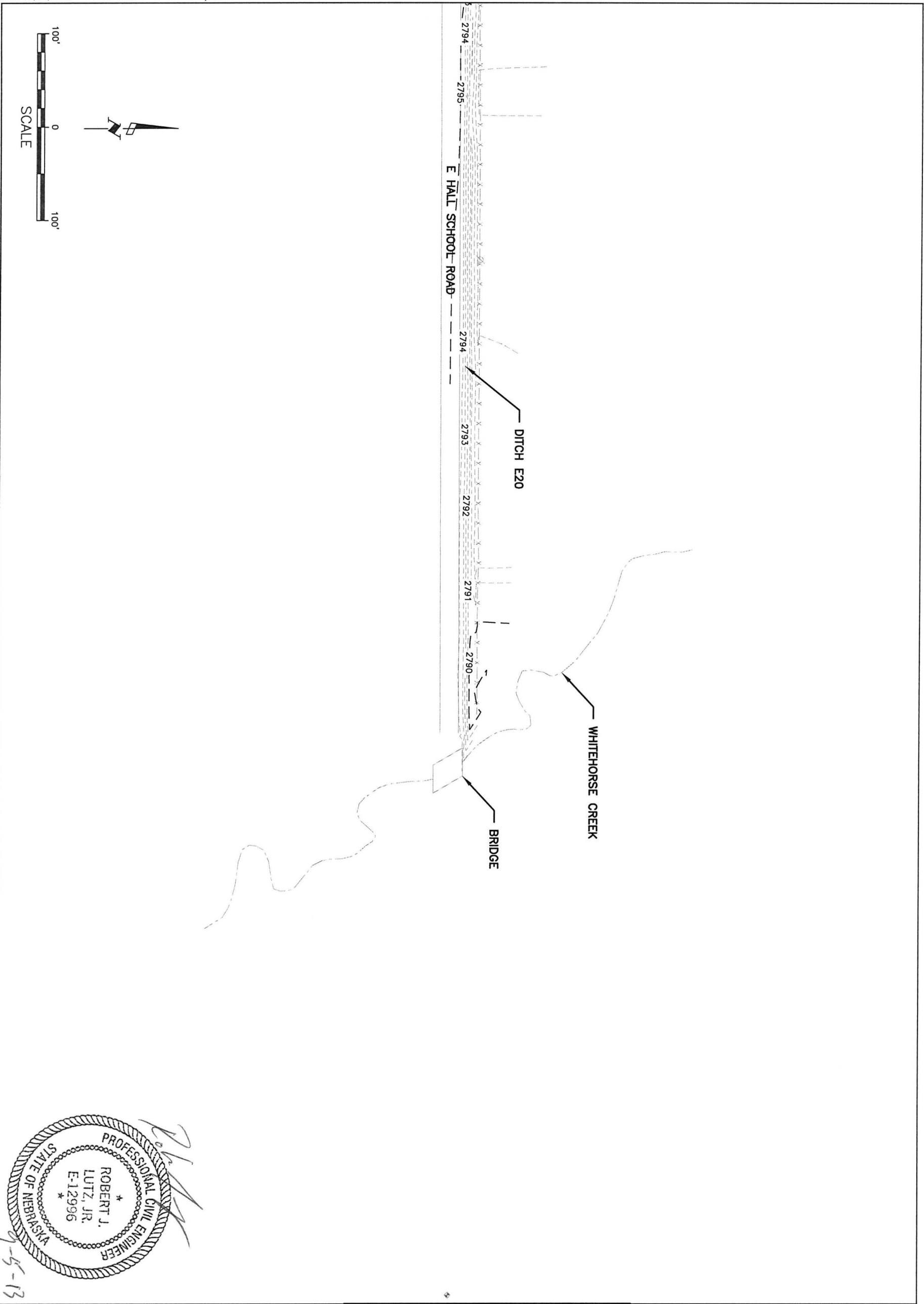



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WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

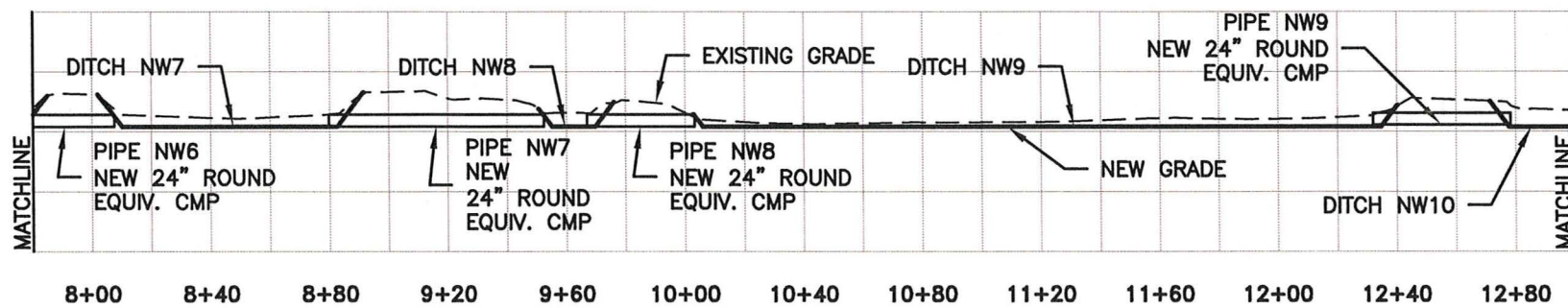
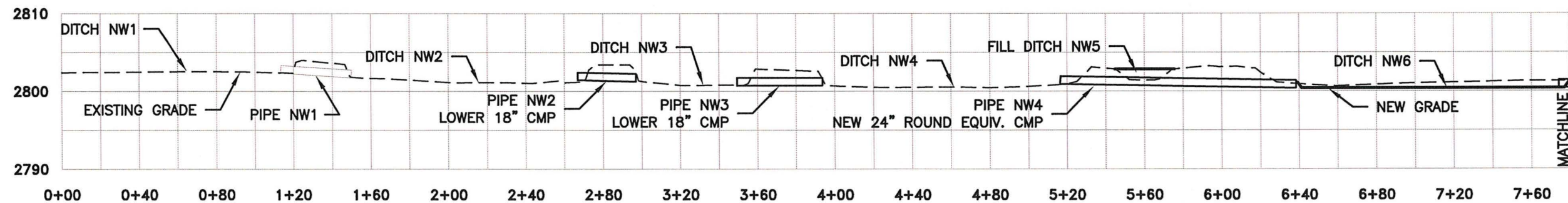
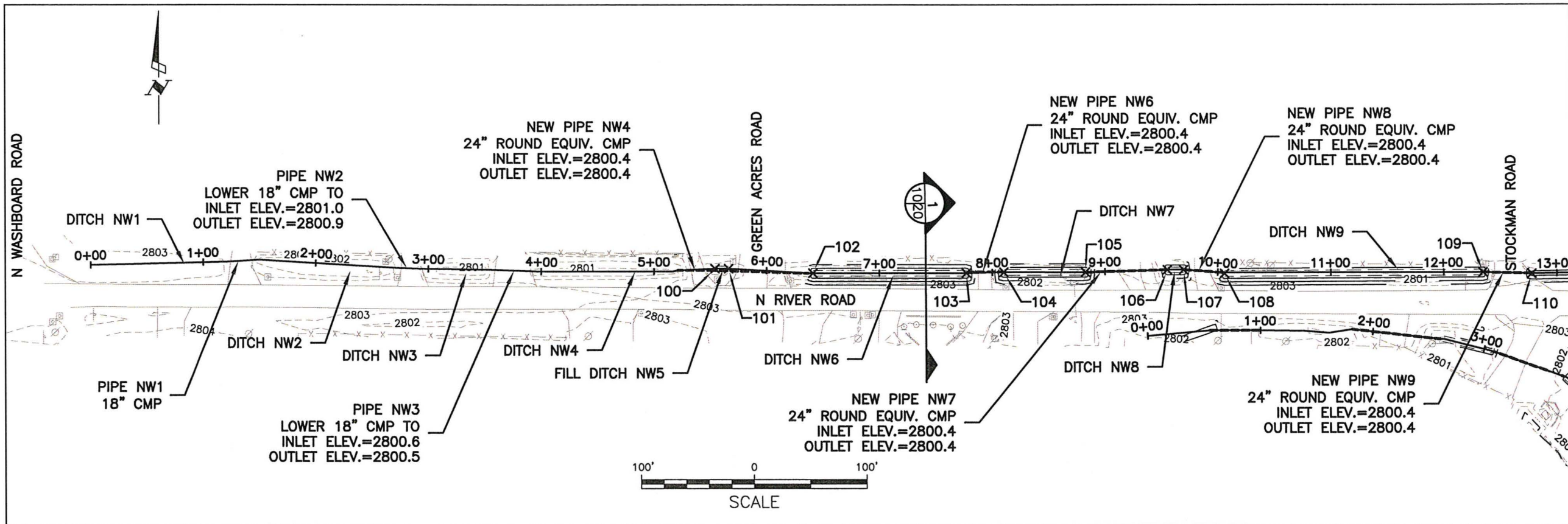
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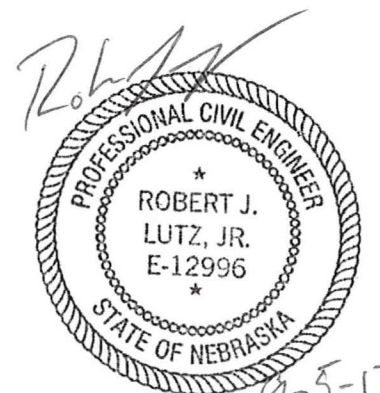
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PROJECT MGR. DS	DESIGNED BY RJL	DRAWN BY JRM	CHECKED BY DS	DATE SEPT. 2013	SCALE AS SHOWN	PROJECT NO. 1482203	FILE NAME —	DRAWING NO. —	FIGURE 9

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NORTHWEST DITCH PROFILE
HORIZONTAL 1"=60'
VERTICAL 1"=15'

- NOTES:
1. SEE FIGURE 19 FOR CONSTRUCTION STAKING POINT TABLES.
 2. 24" ROUND EQUIVALENT CMP IS 20" X 28" CMP THAT WILL BE SUPPLIED BY LINCOLN COUNTY HWY DEPT. THE CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING THE PIPE FROM 2010 RODEO ROAD, NORTH PLATTE, NE TO THE SITE.



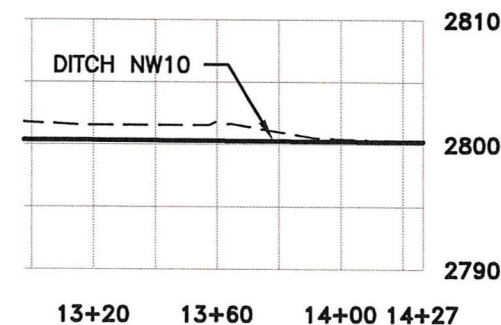
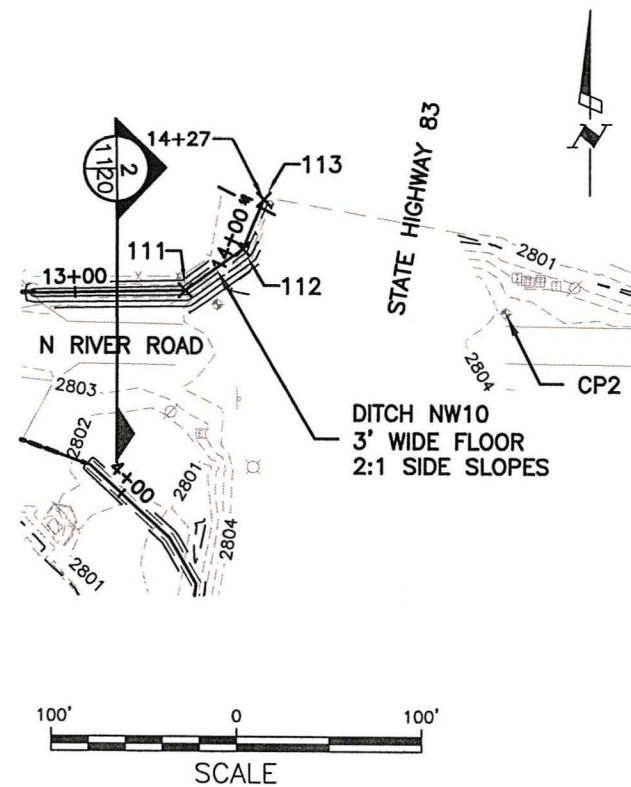
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PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

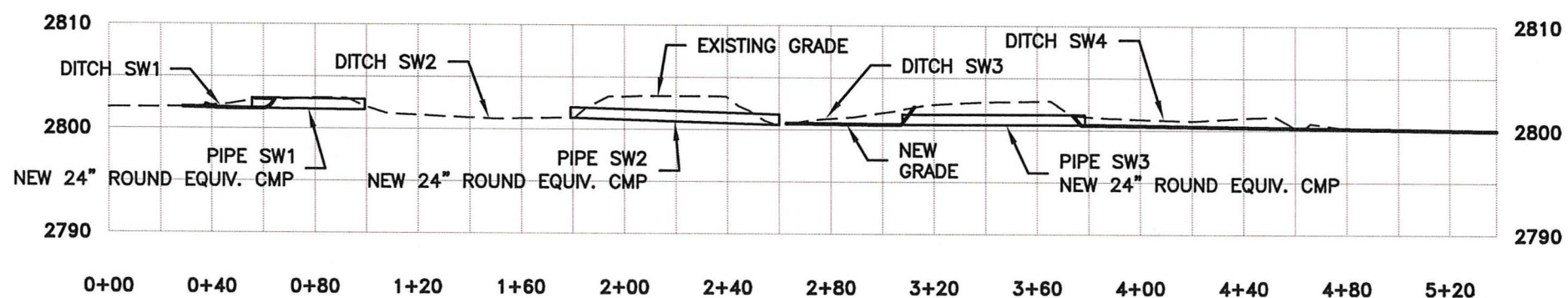
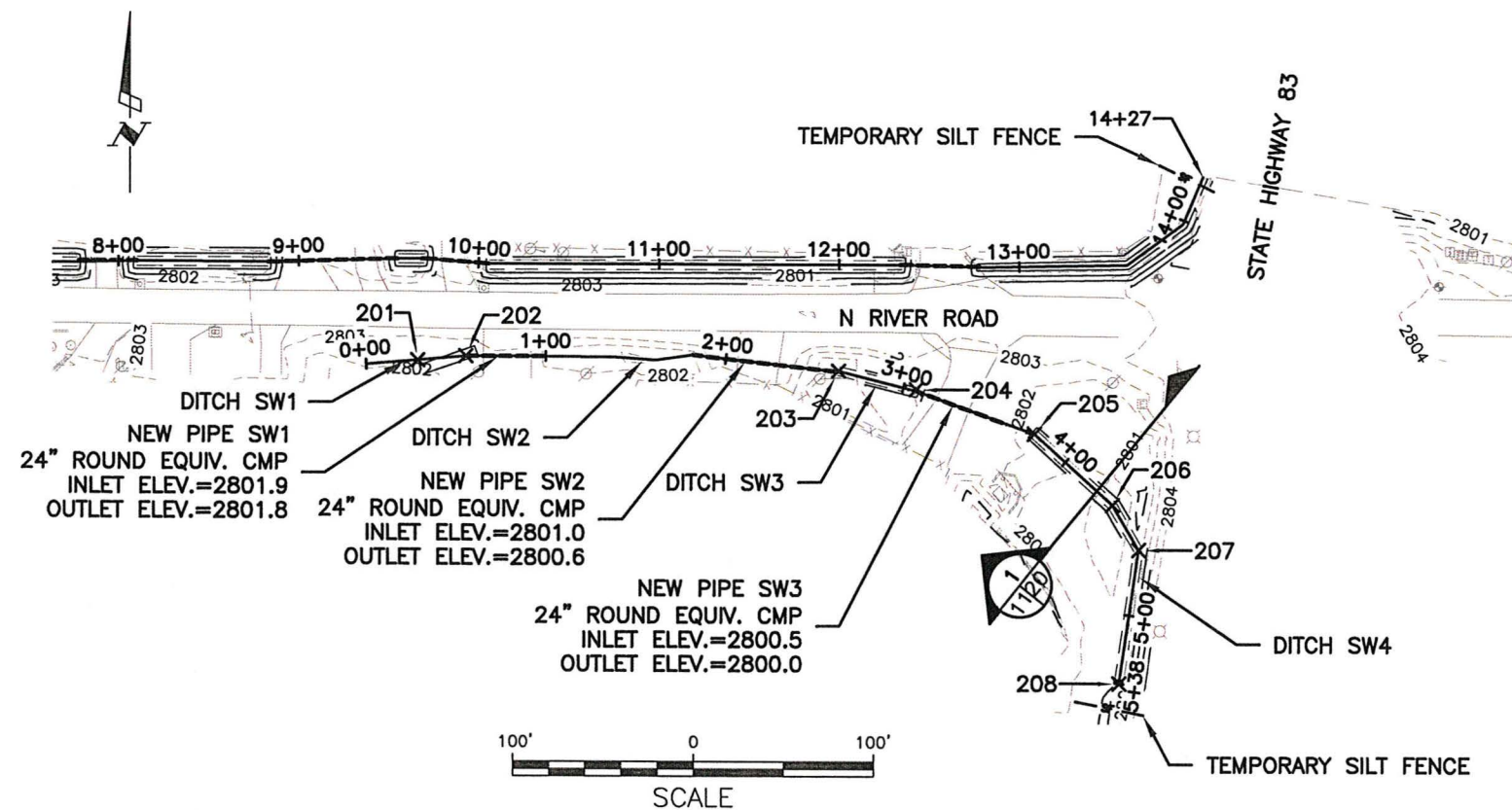
PROJECT NO.	1482203	FILE NAME	-	DRAWING NO.	-	FIGURE	10
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DRAWN BY	JRM						
PROJECT MGR.	DS						

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NORTHWEST DITCH PROFILE (CONT)

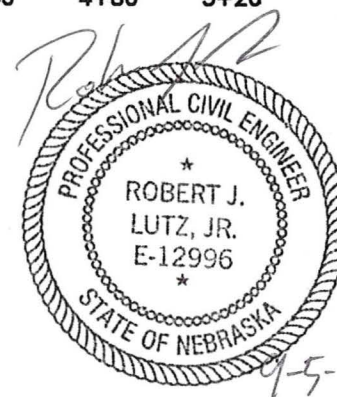
HORIZONTAL 1"=60'
VERTICAL 1"=15'



SOUTHWEST DITCH PROFILE

HORIZONTAL 1"=60'
VERTICAL 1"=15'

- NOTES:
1. SEE FIGURE 19 FOR CONSTRUCTION STAKING POINT TABLES.
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NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

PROJECT MGR. DS
DESIGNED BY RJL
DRAWN BY JRM
CHECKED BY DS

DATE SEPT. 2013

SCALE AS SHOWN

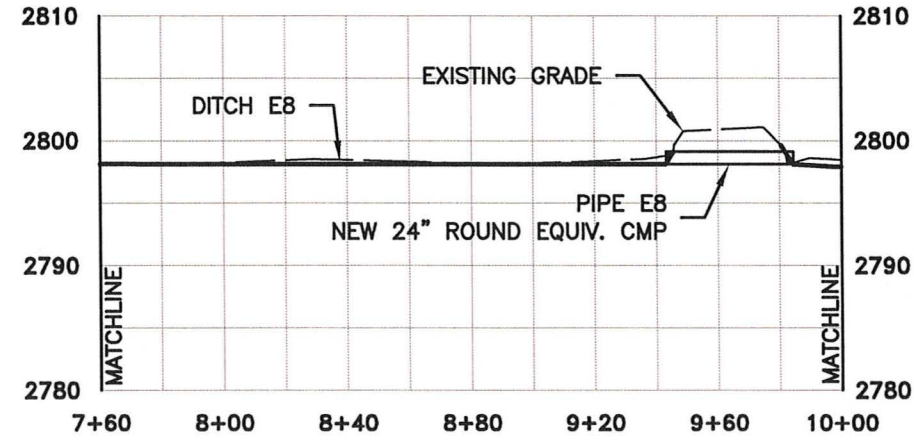
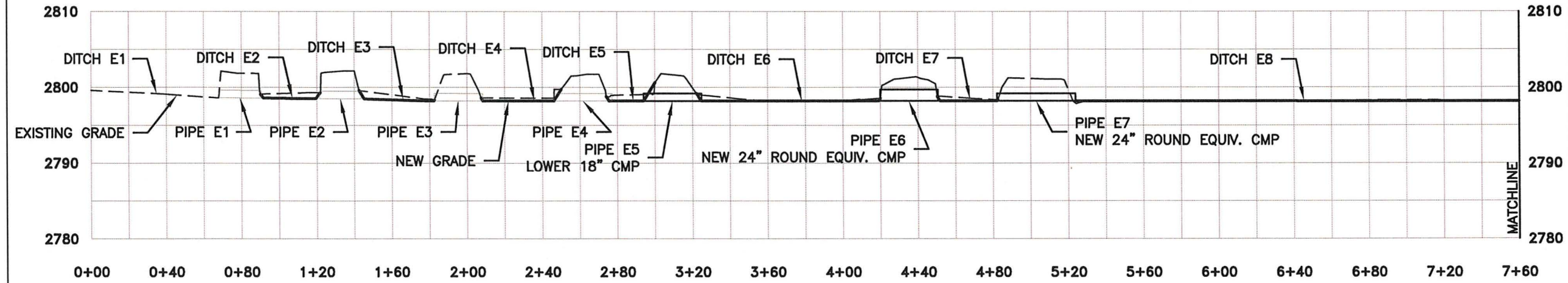
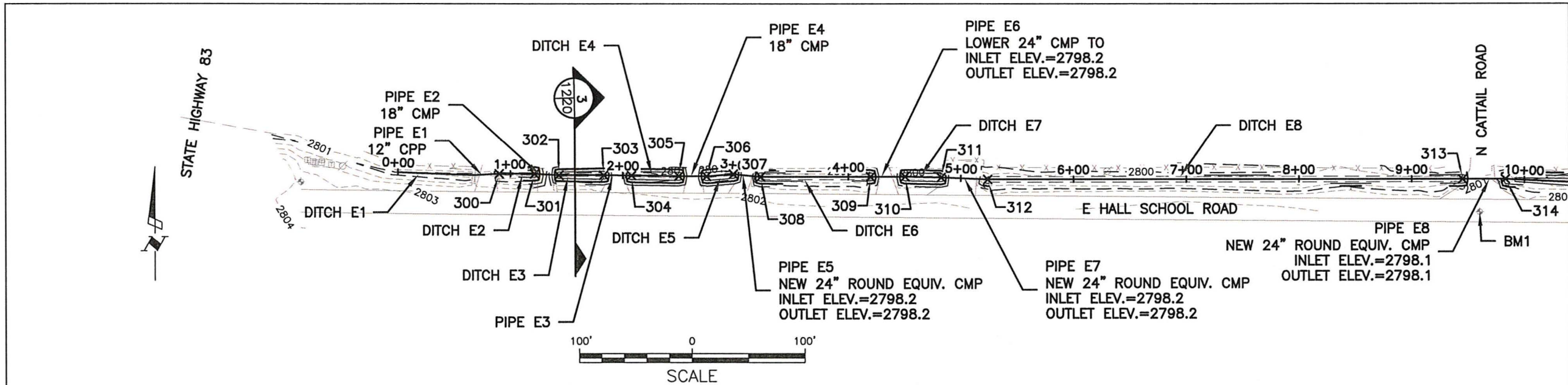
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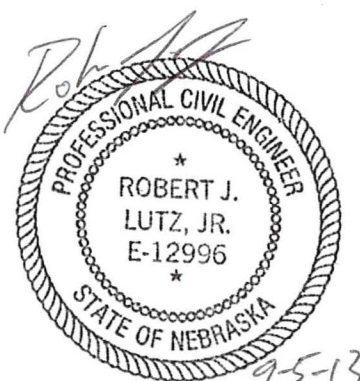
FIGURE 11

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EAST DITCH PROFILE
HORIZONTAL 1"=60'
VERTICAL 1"=15'

- NOTES:
1. SEE FIGURE 19 FOR CONSTRUCTION STAKING POINT TABLES.
 2. 24" ROUND EQUIVALENT CMP IS 20" X 28" CMP THAT WILL BE SUPPLIED BY LINCOLN COUNTY HWY DEPT. THE CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING THE PIPE FROM 2010 RODEO ROAD, NORTH PLATTE, NE TO THE SITE.



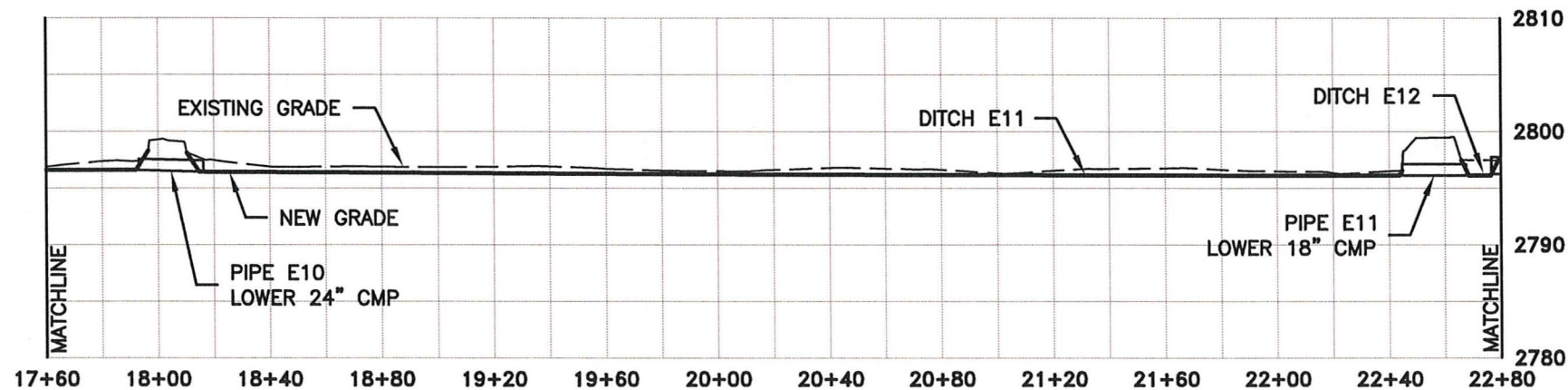
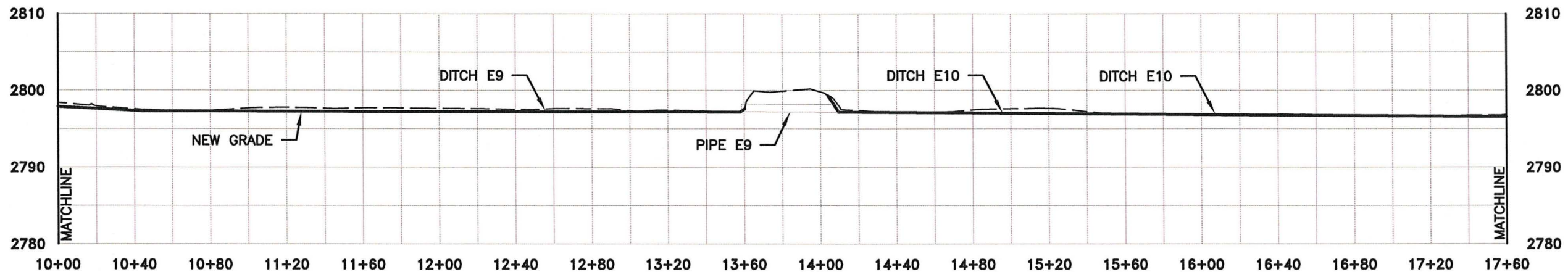
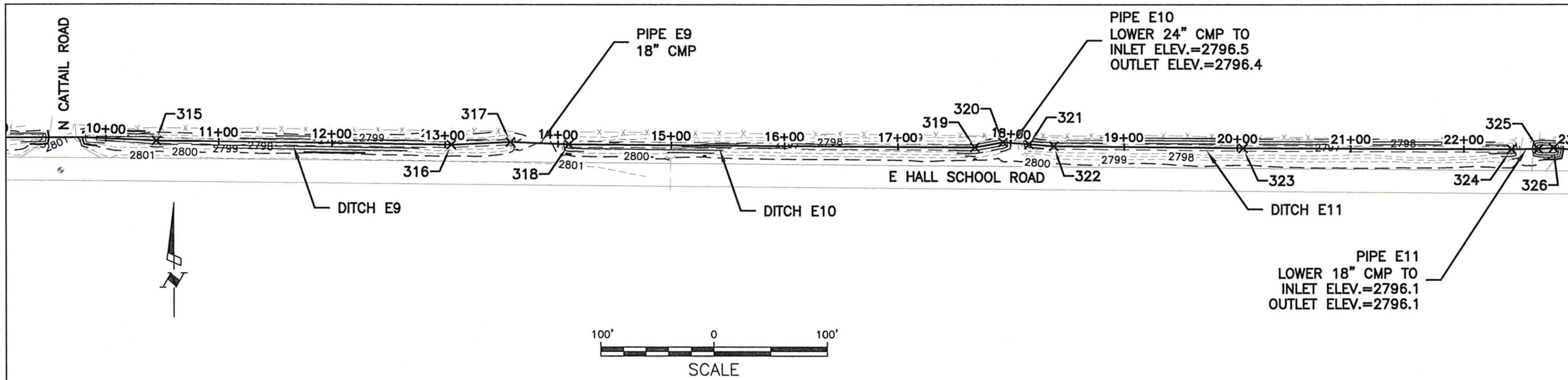
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TECHNOLOGY, INC.

PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
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DATE:06/03/2013 TIME:13:14 DRAWN BY: jmather



EAST DITCH PROFILE (CONT)

HORIZONTAL 1"=60'
VERTICAL 1"=15'

NOTE:
SEE FIGURE 19 FOR CONSTRUCTION
STAKING POINT TABLES.



EA ENGINEERING,
SCIENCE, AND
TECHNOLOGY, INC.

PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

PROJECT MGR. DS
DESIGNED BY RJL
DRAWN BY JRM
CHECKED BY DS

DATE SEPT. 2013
SCALE AS SHOWN

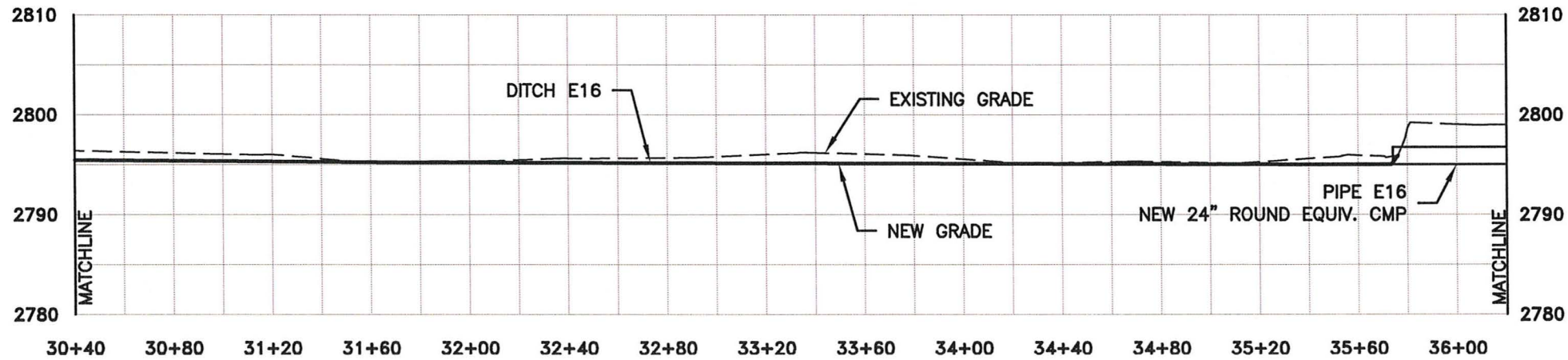
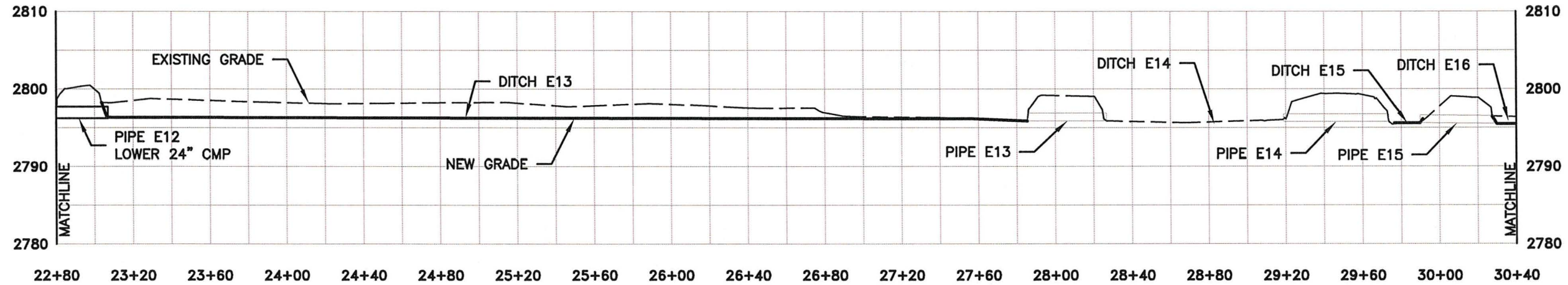
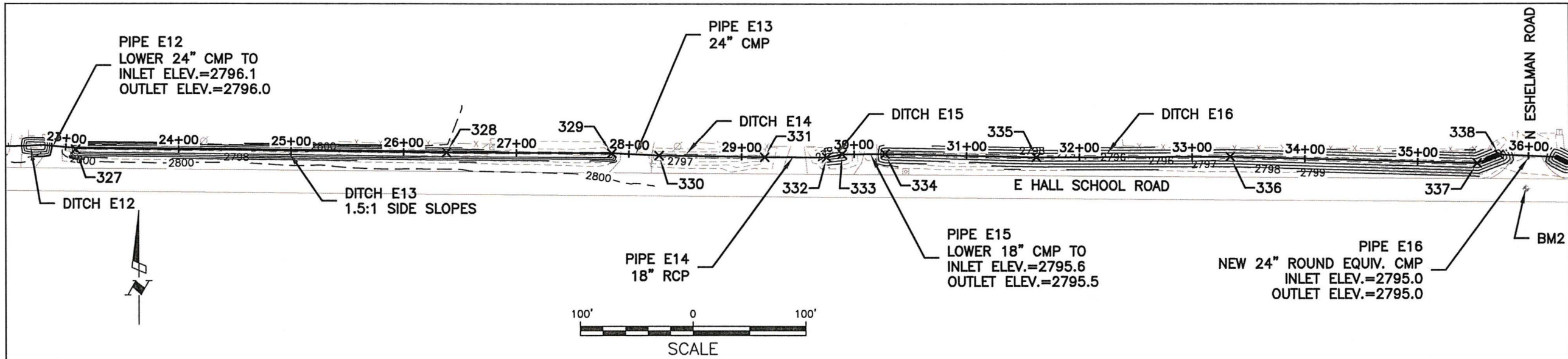
PROJECT NO. 1482203

FILE NAME -

DRAWING NO. -

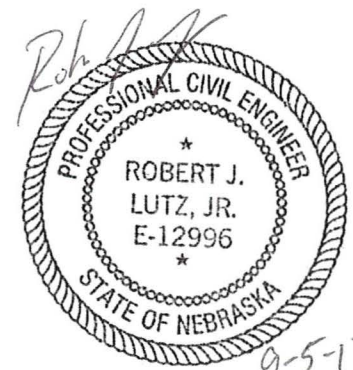
FIGURE 13

DRAWING NAME: F:\State & Local\Other\Platte River Recovery Program\Projects\1482203 - North Platte Flood Proofing\Figures\Whitehorse\Proposed Improvements.dwg
DATE: 06/03/2013 TIME: 1:31:14 DRAWN BY: jmather



EAST DITCH PROFILE (CONT)
HORIZONTAL 1"=60'
VERTICAL 1"=15'

- NOTES:
1. SEE FIGURE 19 FOR CONSTRUCTION STAKING POINT TABLES.
 2. 24" ROUND EQUIVALENT CMP IS 20" X 28" CMP THAT WILL BE SUPPLIED BY LINCOLN COUNTY HWY DEPT. THE CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING THE PIPE FROM 2010 RODEO ROAD, NORTH PLATTE, NE TO THE SITE.



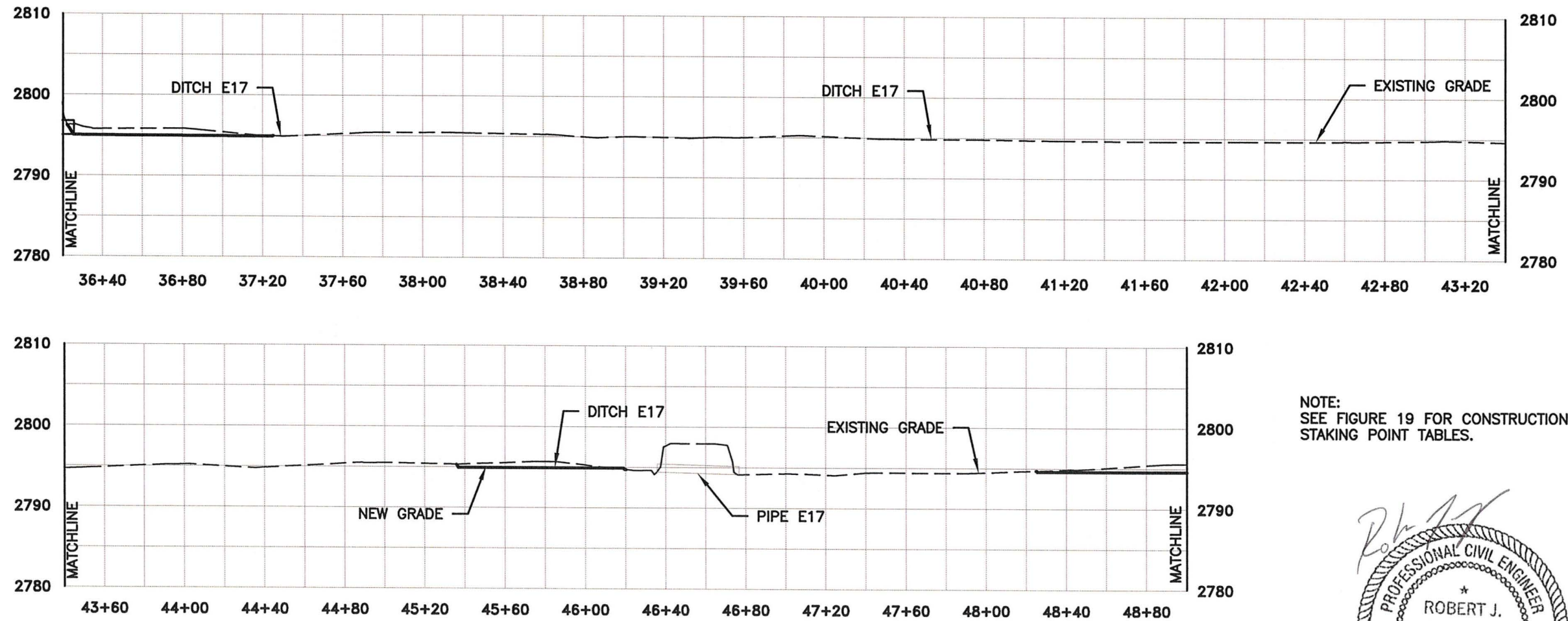
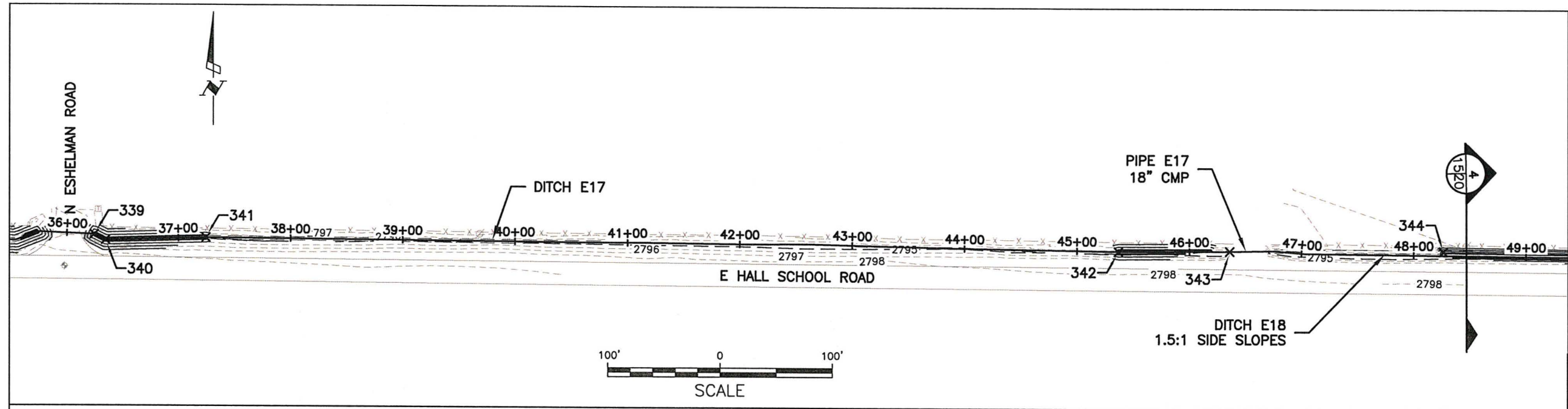
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PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

PROJECT MGR.	DS	DESIGNED BY	RJL	DRAWN BY	JRM	CHECKED BY	DS	DATE	SEPT. 2013	SCALE	AS SHOWN	PROJECT NO.	1482203	FILE NAME	-	DRAWING NO.	-	FIGURE	14
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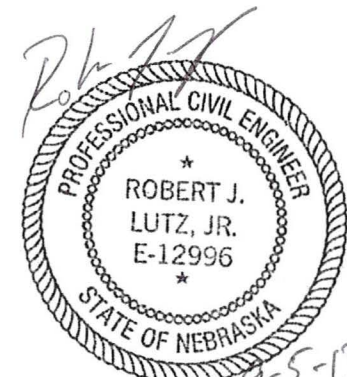
DRAWING NAME: F:\State & Local\Other\Plate River Recovery Program\Projects\1482203 - North Platte Flood Proofing\Figures\Whitehorse\Whitehorse Proposed Improvements.dwg
DATE: 06/03/2013 TIME: 1:31:14 DRAWN BY: jmather



EAST DITCH PROFILE (CONT)

HORIZONTAL 1"=60'
VERTICAL 1"=15'

NOTE:
SEE FIGURE 19 FOR CONSTRUCTION
STAKING POINT TABLES.



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WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

PROJECT MGR. DS
DESIGNED BY RJL
DRAWN BY JRM
CHECKED BY DS

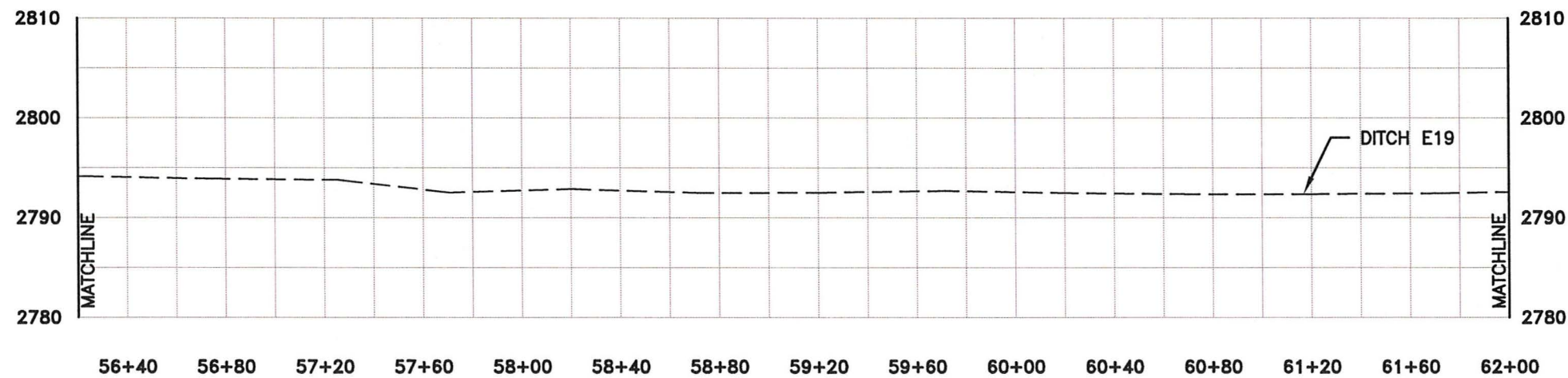
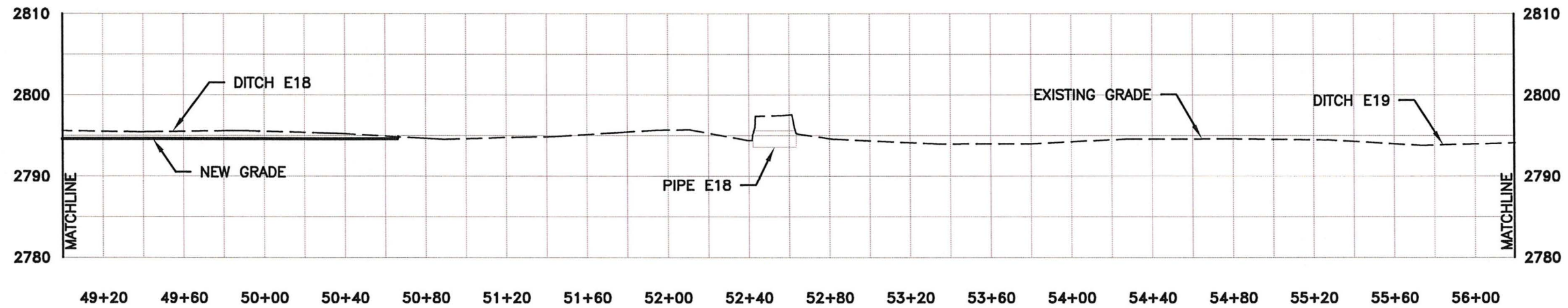
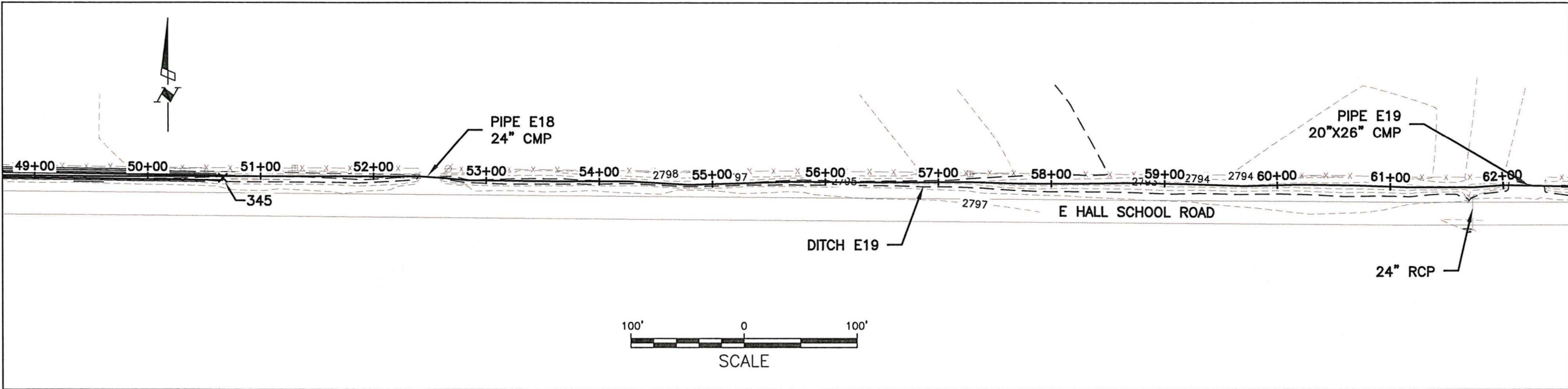
DATE SEPT. 2013
SCALE AS SHOWN

PROJECT NO. 1482203

FILE NAME -
DRAWING NO. -

FIGURE 15

DRAWING NAME: F:\State & Local\Other\Platte River Recovery Program\Projects\1482203 - North Platte Flood Proofing\Figures\Whitehorse\Whitehorse Proposed Improvements.dwg
DATE:06/03/2013 TIME:13:14 DRAWN BY:jmath



EAST DITCH PROFILE (CONT)

HORIZONTAL 1"=60'
VERTICAL 1"=15'

NOTE:
SEE FIGURE 19 FOR CONSTRUCTION
STAKING POINT TABLES.



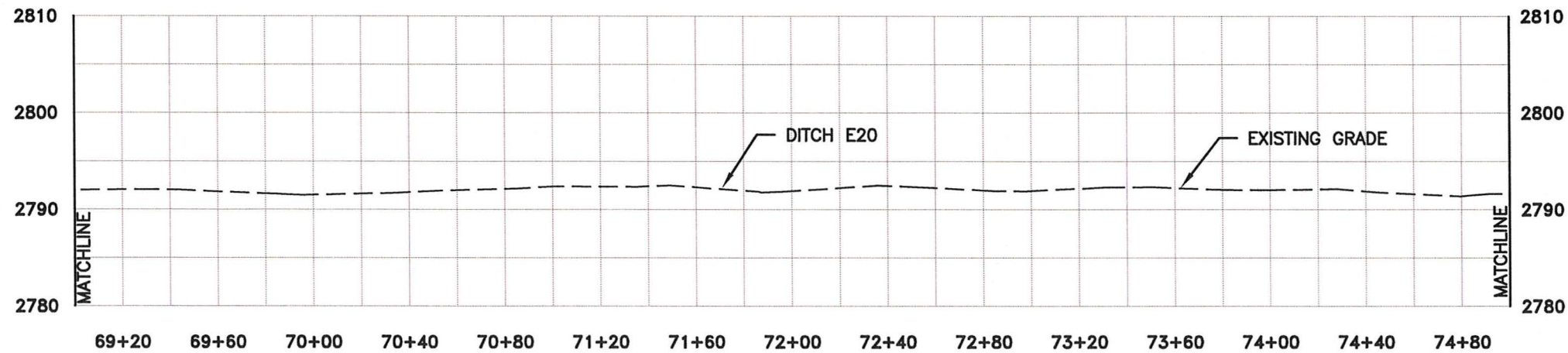
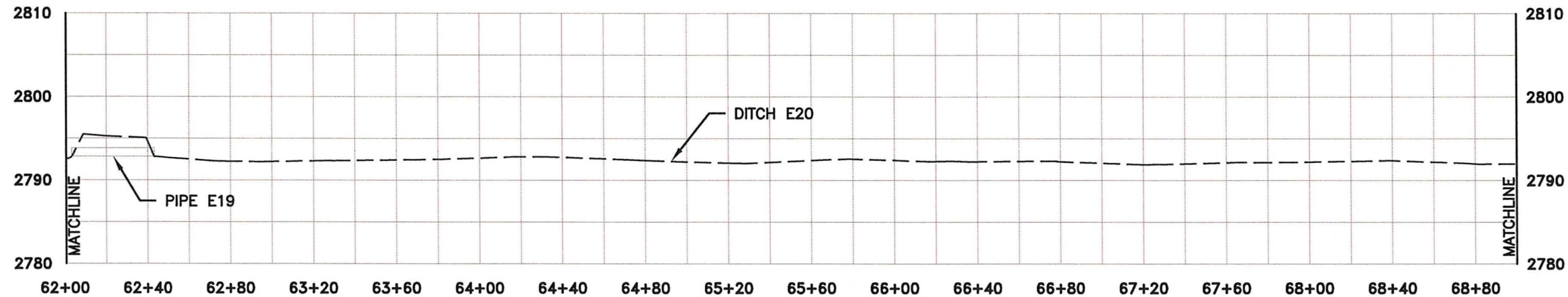
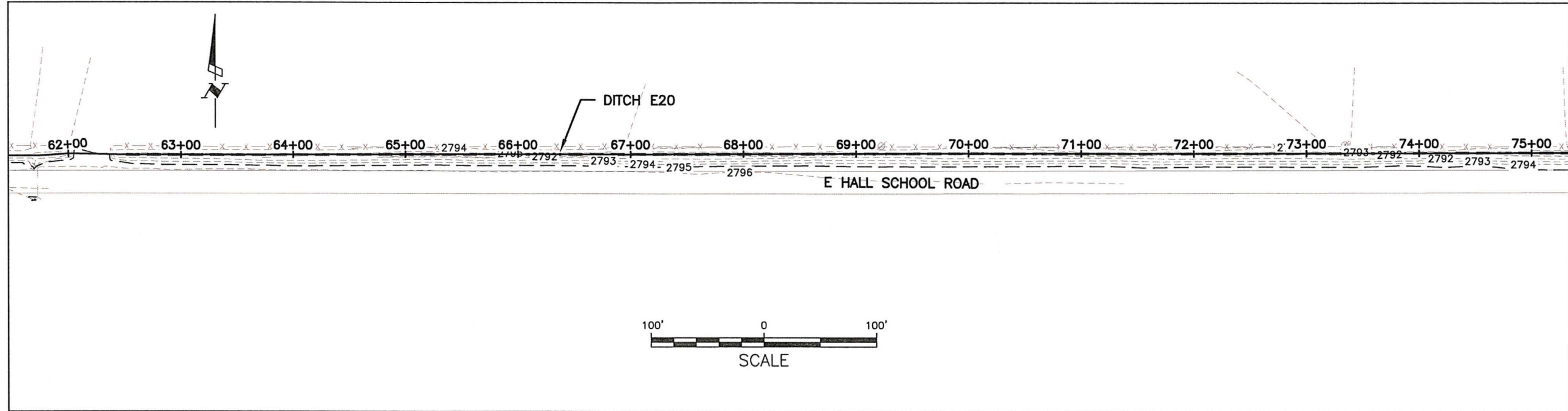
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WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

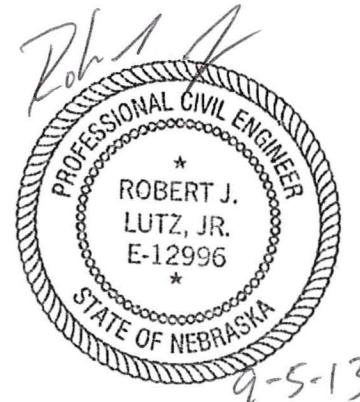
PROPOSED IMPROVEMENTS

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DS	RJL	JRM	DS	SEPT. 2013	AS SHOWN	1482203	-	-	16

DRAWING NAME: F:\State & Local\Other\Platte River Recovery Program\1482203 - North Platte Flood Proofing\Figures\Whitehorse\Proposed Improvements.dwg
DATE: 06/03/2013 TIME: 13:14 DRAWN BY: jrmather



EAST DITCH PROFILE (CONT)
HORIZONTAL 1"=60'
VERTICAL 1"=15'



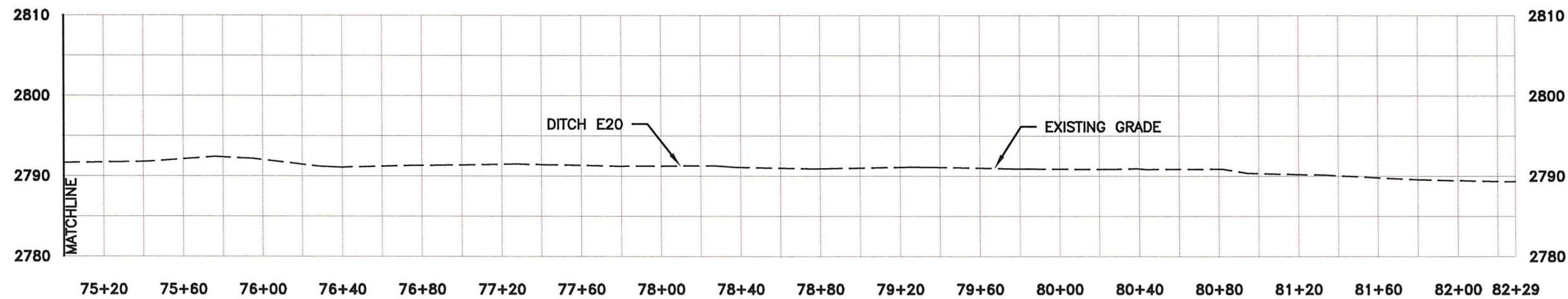
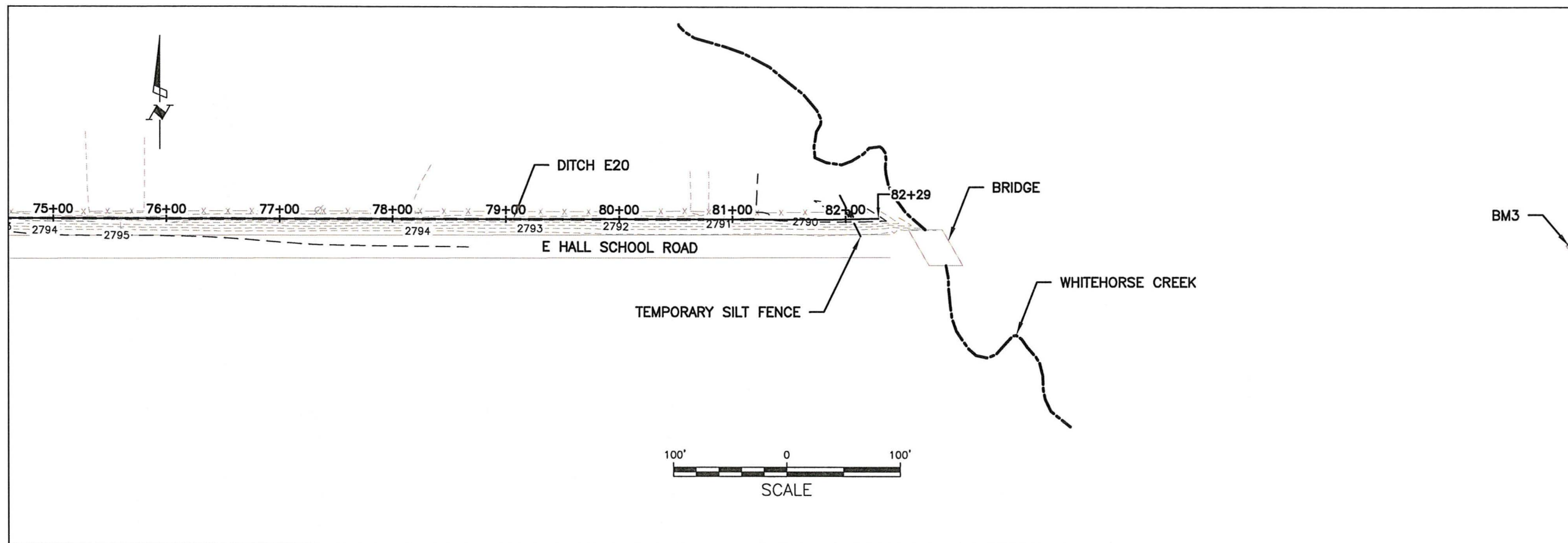
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PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PROPOSED IMPROVEMENTS

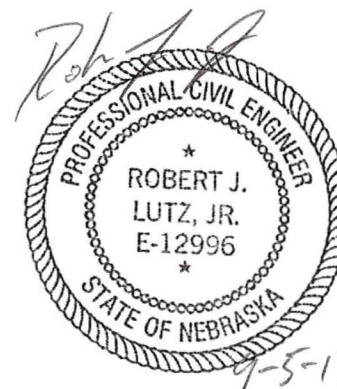
PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DS	RJL	JRM	DS	SEPT. 2013	AS SHOWN	1482203	-	-	17

DRAWING NAME: F:\State & Local\Other\Platte River Recovery Program\Projects\1482203 - North Platte Flood Proofing\Figures\Whitehorse\Proposed Improvements.dwg
DATE:06/03/2013 TIME:13:14 DRAWN BY: jmather



EAST DITCH PROFILE (CONT)

HORIZONTAL 1"=60'
VERTICAL 1"=15'



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PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

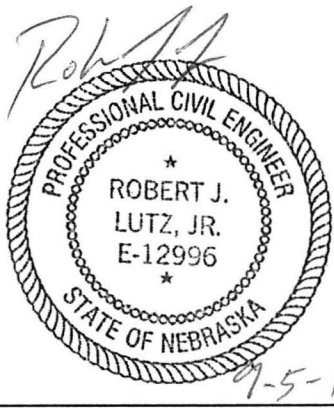
PROPOSED IMPROVEMENTS

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DS	RJL	JRM	DS	SEPT. 2013	AS SHOWN	1482203	-	-	18

DRAWING NAME: F:\State & Local\Other\Platte River Recovery Program\Projects\1482203 - North Platte Flood Proofing\Figures\Whitehorse\Whitehorse Proposed Improvements.dwg
DATE:06/03/2013 TIME:13:14 DRAWN BY:jmather

CONSTRUCTION STAKING POINTS FIGURE 10				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	484968.1	1430974.3	2803.0	DITCH NW5
101	484968.1	1430986.3	2803.0	DITCH NW5
102	484964.2	1431061.3	2800.4	DITCH NW6
103	484964.2	1431196.9	2800.4	DITCH NW6
104	484964.9	1431230.1	2800.4	DITCH NW7
105	484964.9	1431302.5	2800.4	DITCH NW7
106	484966.9	1431375.1	2800.4	DITCH NW8
107	484966.9	1431389.6	2800.4	DITCH NW8
108	484963.7	1431425.8	2800.4	DITCH NW9
109	484964.5	1431654.5	2800.4	DITCH NW9
110	484963.3	1431697.6	2800.4	DITCH NW10
CONSTRUCTION STAKING POINTS FIGURE 11				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
111	484964.9	1431779.3	2800.3	DITCH NW10
112	484987.2	1431810.4	2800.2	DITCH NW10
113	485013.6	1431821.6	2800.2	DITCH NW10
201	484911.3	1431386.0	2801.9	DITCH SW1
202	484913.6	1431412.7	2801.9	DITCH SW1
203	484906.0	1431619.4	2800.6	DITCH SW3
204	484895.9	1431662.3	2800.5	DITCH SW3
205	484871.8	1431728.1	2800.5	DITCH SW4
206	484832.9	1431771.1	2800.3	DITCH SW4
207	484808.2	1431785.7	2800.2	DITCH SW4
208	484734.7	1431774.7	2800.0	DITCH SW4
CONSTRUCTION STAKING POINTS FIGURE 12				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
300	484960.6	1432129.0	2798.6	DITCH E2
301	484960.6	1432160.2	2798.5	DITCH E2
302	484959.4	1432181.8	2798.5	DITCH E3
303	484959.4	1432221.8	2798.2	DITCH E3
304	484959.1	1432246.5	2798.2	DITCH E4
305	484958.5	1432288.3	2798.2	DITCH E4
306	484958.3	1432312.9	2798.2	DITCH E5
307	484960.3	1432336.7	2798.2	DITCH E5
308	484957.9	1432360.9	2798.2	DITCH E6
309	484957.9	1432458.4	2798.2	DITCH E6
310	484958.0	1432489.2	2798.2	DITCH E7
311	484957.4	1432521.1	2798.2	DITCH E7
312	484955.7	1432562.3	2798.2	DITCH E8
313	484955.7	1432983.5	2798.1	DITCH E8
314	484955.7	1433021.6	2798.1	DITCH E9

CONSTRUCTION STAKING POINTS FIGURE 13				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
315	484952.7	1433083.1	2797.3	DITCH E9
316	484949.4	1433343.8	2797.2	DITCH E9
317	484951.8	1433396.2	2797.2	DITCH E9
318	484949.7	1433447.9	2797.2	DITCH E10
319	484947.1	1433806.1	2796.6	DITCH E10
320	484951.6	1433831.0	2796.5	DITCH E10
321	484949.8	1433854.0	2796.4	DITCH E11
322	484948.2	1433875.8	2796.4	DITCH E11
323	484946.3	1434042.7	2796.2	DITCH E11
324	484945.2	1434279.7	2796.1	DITCH E11
325	484945.5	1434303.5	2796.1	DITCH E12
326	484946.5	1434316.8	2796.1	DITCH E12
CONSTRUCTION STAKING POINTS FIGURE 14				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
327	484942.6	1434346.4	2796.0	DITCH E13
328	484939.9	1434675.6	2795.9	DITCH E13
329	484939.3	1434822.2	2795.8	DITCH E13
330	484937.3	1434864.3	2795.8	DITCH E14
331	484935.9	1434957.9	2795.7	DITCH E14
332	484935.7	1435013.0	2795.6	DITCH E15
333	484938.5	1435026.8	2795.6	DITCH E15
334	484938.8	1435064.7	2795.5	DITCH E16
335	484935.7	1435199.0	2795.2	DITCH E16
336	484936.1	1435371.1	2795.1	DITCH E16
337	484930.3	1435590.1	2795.0	DITCH E16
338	484937.8	1435609.6	2795.0	DITCH E16
CONSTRUCTION STAKING POINTS FIGURE 15				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
339	484935.7	1435659.7	2795.0	DITCH E17
340	484930.7	1435669.6	2795.0	DITCH E17
341	484933.1	1435759.2	2794.9	DITCH E17
342	484924.1	1436571.3	2794.9	DITCH E17
343	484924.6	1436670.4	2794.9	DITCH E17
344	484924.9	1436860.6	2794.6	DITCH E18
CONSTRUCTION STAKING POINTS FIGURE 16				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
345	484918.6	1437100.8	2794.6	DITCH E18
BENCHMARKS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM1	484926.8	1432998.7	2801.4	SECTION CORNER
BM2	484907.6	1435633.3	2799.5	SECTION CORNER
BM3	484891.0	1440885.3	2794.4	SURVEY MONUMENT



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PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

CONSTRUCTION STAKING
POINT TABLES

PROJECT MGR. DS
DESIGNED BY RJL
DRAWN BY JRM
CHECKED BY DS

DATE SEPT. 2013

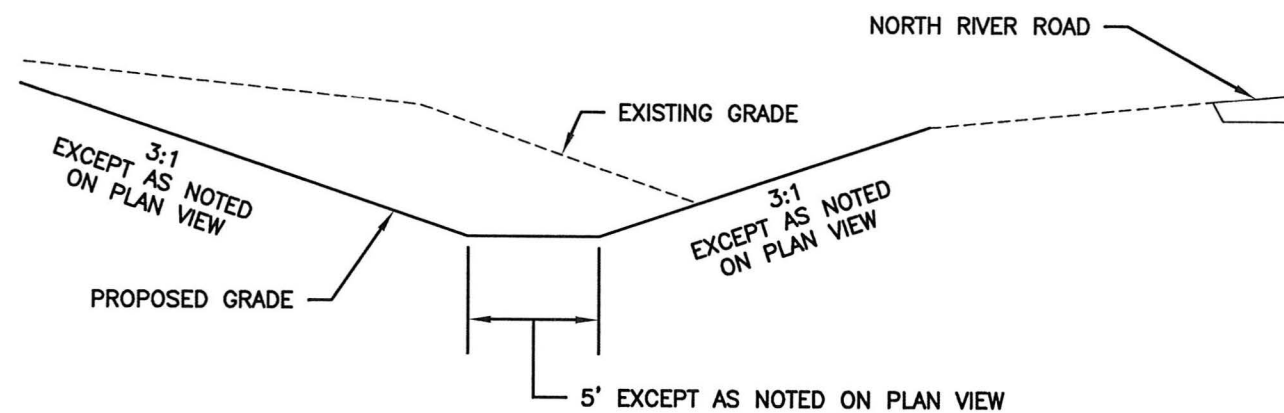
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PROJECT NO. 1482203

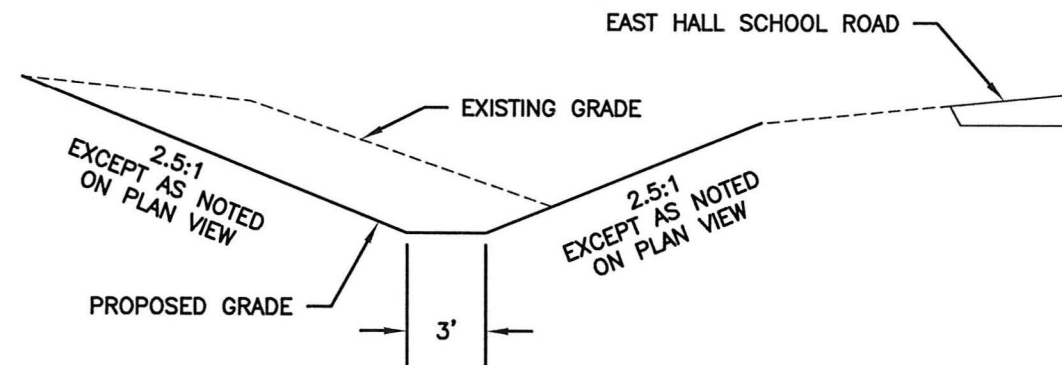
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DRAWING NO. -

FIGURE 19

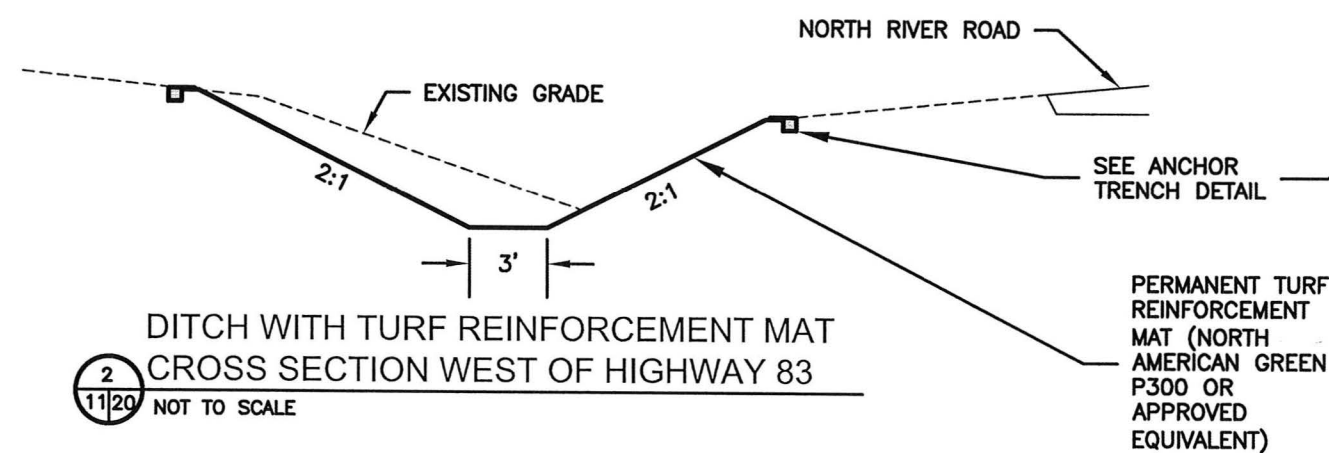
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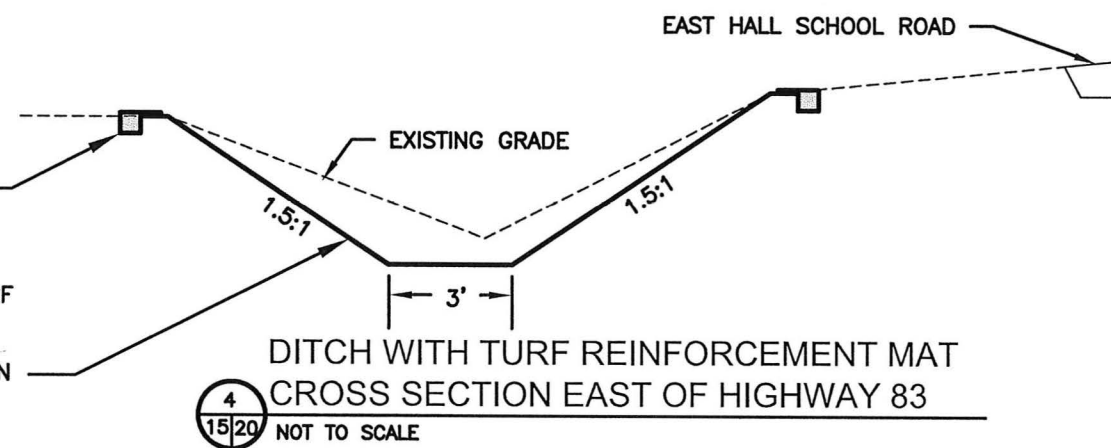
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11/10/20
TYPICAL DITCH CROSS SECTION WEST OF HIGHWAY 83
NOT TO SCALE



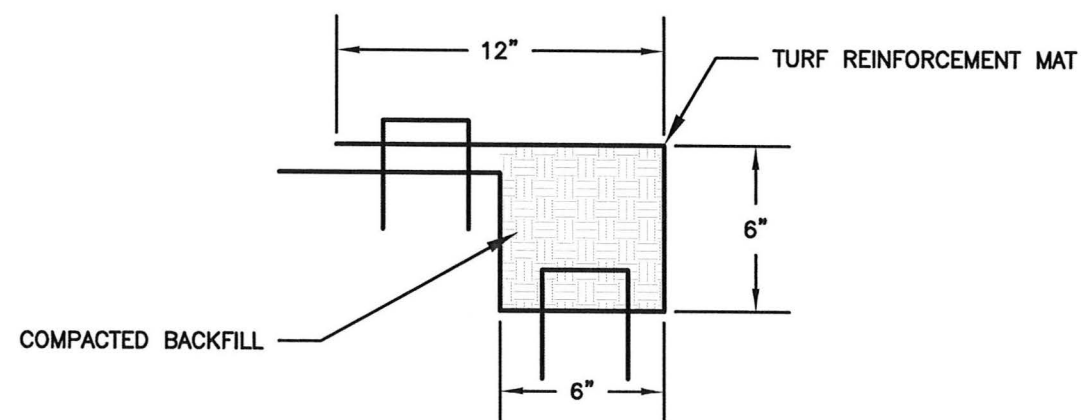
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12/12/20
TYPICAL DITCH CROSS SECTION EAST OF HIGHWAY 83
NOT TO SCALE



2
11/11/20
DITCH WITH TURF REINFORCEMENT MAT
CROSS SECTION WEST OF HIGHWAY 83
NOT TO SCALE

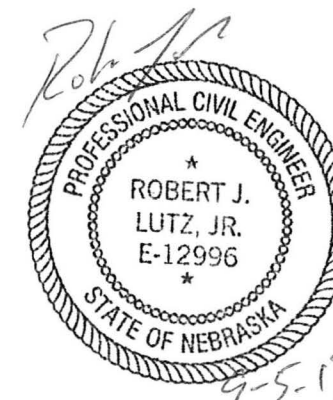


4
15/15/20
DITCH WITH TURF REINFORCEMENT MAT
CROSS SECTION EAST OF HIGHWAY 83
NOT TO SCALE



TURF REINFORCEMENT MAT ANCHOR TRENCH DETAIL
NOT TO SCALE

NOTE:
1. STAPLE THE TURF REINFORCEMENT MAT ACCORDING TO MANUFACTURER'S INSTALLATION GUIDELINES.
2. MAINTAIN A MINIMUM 4' SHOULDER ALONG NORTH RIVER ROAD AND EAST HALL SCHOOL ROAD.



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IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

DETAILS

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DS	RJL	JRM	DS	SEPT. 2013	AS SHOWN	1482203	-	-	20

NORTH RIVER ROAD NORTH DITCH PIPE INFORMATION			
PIPE	ACTION	SIZE	LENGTH
NW1	NONE	18 INCH	-
NW2	LOWER	18 INCH	23 ft
NW3	LOWER	18 INCH	40 ft
NW4	NEW	24 INCH EQ	120 ft
NW6	NEW	24 INCH EQ	32 ft
NW7	NEW	24 INCH EQ	72 ft
NW8	NEW	24 INCH EQ	37 ft
NW9	NEW	24 INCH EQ	44 ft

NORTH RIVER ROAD SOUTH DITCH PIPE INFORMATION			
PIPE	ACTION	SIZE	LENGTH
SW1	NEW	24 INCH EQ	44 ft
SW2	NEW	24 INCH EQ	79 ft
SW3	NEW	24 INCH EQ	67 ft

EAST HALL SCHOOL ROAD DITCH PIPE INFORMATION			
PIPE	ACTION	SIZE	LENGTH
E1	NONE	18 INCH	-
E2	NONE	18 INCH	-
E3	NONE	18 INCH	-
E4	NONE	18 INCH	-
E5	NEW	24 INCH EQ	22 ft
E6	LOWER	24 INCH	31 ft
E7	NEW	24 INCH EQ	40 ft
E8	NEW	24 INCH EQ	40 ft
E9	NONE	18 INCH	-
E10	LOWER	24 INCH	15 ft
E11	LOWER	18 INCH	22 ft
E12	LOWER	24 INCH	23 ft
E13	NONE	24 INCH	-
E14	NONE	18 INCH	-
E15	NONE	18 INCH	-
E16	NEW	24 INCH EQ	50 ft
E17	NONE	18 INCH	-
E18	NONE	18 INCH	-
		20 INCH X	
E19	NONE	26 INCH	-
E20	NONE	18 INCH	-

NOTE:
"24 INCH EQ" IS 24 INCH
ROUND EQUIVALENT PIPE

NORTH RIVER ROAD NORTH DITCH CONSTRUCTION INFORMATION		
DITCH	FLOOR WIDTH	SIDE SLOPES
NW5	5 FEET	3:1
NW6	5 FEET	3:1
NW7	5 FEET	3:1
NW8	5 FEET	3:1
NW9	5 FEET	3:1
NW10	3 FEET	2:1

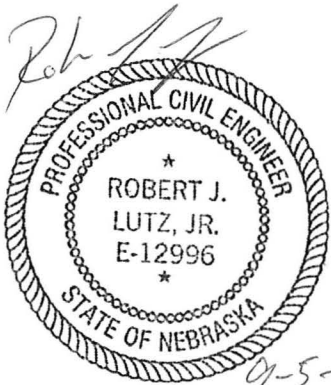
NORTH RIVER ROAD SOUTH DITCH INFORMATION		
DITCH	FLOOR WIDTH	SIDE SLOPES
SW1	5 FEET	3:1
SW2	5 FEET	3:1
SW3	5 FEET	3:1
SW4	5 FEET	3:1

EAST HALL SCHOOL ROAD DITCH INFORMATION		
DITCH	FLOOR WIDTH	SIDE SLOPES
E2	3 FEET	2.5:1
E3	3 FEET	2.5:1
E4	3 FEET	2.5:1
E5	3 FEET	2.5:1
E6	3 FEET	2.5:1
E7	3 FEET	2.5:1
E8	3 FEET	2.5:1
E9	3 FEET	2.5:1
E10	3 FEET	2.5:1
E11	3 FEET	2.5:1
E12	3 FEET	2.5:1
E13	3 FEET	1.5:1*
E14	3 FEET	2.5:1
E15	3 FEET	2.5:1
E16	3 FEET	2.5:1
E17	3 FEET	2.5:1
E18	3 FEET	1.5:1*

*PERMANENT TURF REINFORCEMENT MAT
SHALL BE INSTALLED

GENERAL NOTES:

- EXTRA FILL MATERIAL THAT IS NOT NEEDED ON SITE SHALL BE TRANSPORTED TO THE LINCOLN COUNTY HIGHWAY DEPARTMENT AT 2010 RODEO ROAD, NORTH PLATTE, NE BY THE CONTRACTOR
- THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED TRAFFIC CONTROL. TRAFFIC CONTROL SHALL CONFORM TO THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- WORK SHALL BE SCHEDULED SUCH THAT TRAFFIC CONTROL IS KEPT TO A MINIMUM DURING SCHOOL TRAVEL HOURS: 7:15-8:15 AM AND 3:15-4:15 PM.
- DRIVES THAT ARE DISTURBED FOR CULVERT INSTALLATION SHALL BE RESTORED SIMILAR TO THE ORIGINAL CONDITION. CONCRETE DRIVES SHALL BE REMOVED ONLY IN FULL PANELS. NO PARTIAL PANELS SHALL BE CUT OUT. CULVERT ALIGNMENT MAY BE ADJUSTED SLIGHTLY TO AVOID REPLACEMENT OF TWO PANELS. ASPHALT DRIVES SHALL BE REPLACED WITH LINCOLN COUNTY TYPE B ASPHALT.



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PLATTE RIVER RECOVERY
IMPLEMENTATION PROGRAM
WHITEHORSE CREEK DRAINAGE PROJECT
NORTH PLATTE, NEBRASKA

PIPE AND DITCH SUMMARY TABLES
AND GENERAL NOTES

PROJECT MGR.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE	PROJECT NO.	FILE NAME	DRAWING NO.	FIGURE
DS	R/JL	JRM	DS	SEPT. 2013	AS SHOWN	1482203	-	-	21

STORMWATER POLLUTION PREVENTION PLAN

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN
Whitehorse Creek Drainage Project

PROJECT NAME: Whitehorse Creek Drainage Project

NPDES AUTHORIZATION NUMBER:

PERMIT NUMBER:

PROPERTY OWNER: State of Nebraska

ADDRESS:

CITY: North Platte

STATE: Nebraska

ZIP: 69101

OWNER'S SITE CONTACT PERSON:

TITLE:

PHONE NUMBER:

FAX NUMBER:

MOBILE PHONE NO:

PAGER:

GENERAL DESCRIPTION OF THE PROJECT:
--

The project includes lowering culverts and re-grading the road ditch adjacent to North River Road and East Hall School Road from Washboard Road to Whitehorse Creek to improve drainage to Whitehorse Creek.

PROJECT LOCATION:

North River Road from Washboard Road to Highway 83 and
East Hall School Road from Highway 83 to Whitehorse Creek at North Platte, Nebraska
S27 and S28, T14N, R30W, Lincoln County, Nebraska

PROJECT DESIGN:

CONSULTANT'S NAME: Robb Lutz, P.E.

COMPANY: EA Engineering, Science, and Technology

ADDRESS: 221 Sun Valley Blvd., Suite D

CITY: Lincoln

STATE: Nebraska

ZIP: 68528

PHONE NO: 402-476-3766

FAX NO: 402-476-7825

TYPE OF SOIL DISTURBING ACTIVITIES:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clearing and grubbing of existing vegetation
<input type="checkbox"/> Stripping of topsoil within construction limits
<input type="checkbox"/> Stockpiling and re-spreading topsoil
<input type="checkbox"/> Utility trench and backfill
<input checked="" type="checkbox"/> Preparing sub grade of streets and sidewalks
<input type="checkbox"/> Backfilling curbs and sidewalks | <input type="checkbox"/> Construction of sediment / stormwater basins
<input type="checkbox"/> Disposal areas for excess excavated material
<input checked="" type="checkbox"/> Borrow areas for fill materials
<input checked="" type="checkbox"/> Construction of compacted fill areas
<input type="checkbox"/> Excavation of foundations
<input type="checkbox"/> Other |
|---|---|

TOTAL SITE AREA: 3.0 Acres

ESTIMATED AREA DISTURBED BY THIS PROJECT: 3.0 Acres

NAME OF RECEIVING STREAM: Whitehorse Creek

DISTANCE FROM PROJECT OUTFALL TO RECEIVING WATER: 0 Feet

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project PROJECT PLANNING AND DESIGN (cont.)

SEDIMENT & EROSION CONTROLS TO BE USED:

(To be used with the construction plan set)

TEMPORARY CONTROLS:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Silt Fence | <input type="checkbox"/> Straw / Hay Bale Dike |
| <input type="checkbox"/> Silt Containment Berm | <input type="checkbox"/> Sedimentation Basin |
| <input type="checkbox"/> Diversion Berm or Swale | <input type="checkbox"/> Temporary Gravel Entrance |
| <input type="checkbox"/> Vegetative Buffers | <input type="checkbox"/> Other |

TEMPORARY STABILIZATION

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> Temporary seeding | <input type="checkbox"/> Mulching |
| <input type="checkbox"/> Other | |

PERMANENT CONTROLS

- | | |
|--|--|
| <input type="checkbox"/> Diversion Berm | <input type="checkbox"/> Diversion Swale |
| <input type="checkbox"/> Rip-Rap or Paved Chute | <input type="checkbox"/> Rip-Rap Outlet Protection |
| <input type="checkbox"/> Rip-Rap Channel Lining | <input type="checkbox"/> Reinforced Sod Channel Lining |
| <input type="checkbox"/> Sod Channel Lining | <input type="checkbox"/> Concrete Trickle Channel |
| <input type="checkbox"/> Concrete channel Lining | <input type="checkbox"/> Vegetative Buffers |
| <input type="checkbox"/> Other | <input type="checkbox"/> Detention Basin |

PERMANENT STABILIZATION

- | | |
|---|--|
| <input checked="" type="checkbox"/> Seeding | <input type="checkbox"/> Pavement or Other Permanent Surface |
| <input type="checkbox"/> Hydro mulch | <input type="checkbox"/> Straw Mulch |
| <input type="checkbox"/> Other | |

GENERAL DESCRIPTION OF STORMWATER MANAGEMENT PLAN:

All soil disturbing activities performed by the contractor will be accomplished in such a manner as to prevent the loss of sediment from the construction site during rainfall events. Silt fence permanent turf reinforcement mats shall be installed as shown on the plans. Good housekeeping measures and diligent inspections and maintenance actions will be performed to ensure Best Management Practices and structural controls are effective.

Owner will maintain vegetation after construction.

GENERAL SEQUENCE OF CONSTRUCTION:

1. Post permit sign
2. Clearing
3. General excavation and backfill
4. Seeding

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

CONSTRUCTION PHASE

(To be completed by General Contractor and/or Owner)

GENERAL CONTRACTOR'S NAME:

ADDRESS:

CITY: STATE: ZIP:

PHONE NUMBER: FAX NUMBER:

MOBILE PHONE NO: PAGER:

CONTRACTOR'S SEDIMENT CONTROL CONTACT:

PHONE NUMBER: FAX NUMBER:

MOBILE PHONE NO: PAGER:

SUBCONTRACTORS: Check all land disturbance items for which subcontractors are to be used and attach a list of sub contractors.

- ☐ Grading
- ☐ Storm Sewers
- ☐ Paving
- ☐ Concrete Flat Work
- ☐ Sanitary Sewers
- ☐ Concrete Drainage Structures
- ☐ Curb & Gutter
- ☐ Sediment Controls
- ☐ Seeding & Mulching
- ☐ Water
- ☐ Electric
- ☐ Gas
- ☐ Blasting
- ☐ Other: _____

SEQUENCE OF CONSTRUCTION:

The General Contractor should complete the following sequence of construction for land disturbance activities.

ITEM:

SUBCONTRACTOR

1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

GENERAL SEDIMENT CONTROL PRACTICES

1. EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION WORK AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE ROCKING OR VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
2. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY FEDERAL, STATE OR LOCAL AUTHORITIES.
3. NO SLOPES SHALL BE GRADED STEEPER THAN 3:1 (HORIZONTAL: VERTICAL). UNLESS OTHERWISE NOTED.
4. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/3 THE HEIGHT OF THE SILTATION FENCE.
5. STRAW BALES SHALL BE INSPECTED PERIODICALLY FOR DETERIORATION. BALES WHICH HAVE ROTTED OR FAILED SHALL BE REPLACED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE BALES.
6. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASS OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
7. PRACTICES ARE SHOWN ON THE PROJECT STORM WATER POLLUTION PREVENTION PLAN SHEET (NPDES 1 AND 2).

MAINTENANCE / INSPECTION PROCEDURES

The following maintenance and inspection practices will be required by the General Contractor to maintain sediment and erosion controls:

1. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE ADDRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. ALL EXPOSED SLOPES WHETHER TEMPORARY OR PERMANENT SHALL BE SEEDED PER SPECIFICATIONS IMMEDIATELY UPON COMPLETION.
7. ALL FLOW LINES OF DIVERSION DITCHES AND SWALES SHALL BE PROTECTED AS NEEDED.
8. THE CONTRACTOR WILL INSPECT ALL SPECIFIED AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND AFTER EACH RAINFALL EVENT OF 0.5 INCHES OR GREATER TO INSURE THAT THE INTEGRITY OF EACH PRACTICE IS INTACT. ANY DAMAGE NOTED WILL BE PROMPTLY REPAIRED TO ORIGINAL SPECIFICATIONS.
9. THE CONTRACTOR SHALL MAINTAIN A LOG BOOK OF INSPECTIONS, REPAIRS, OR REPLACEMENT OF SILTATION CONTROL BARRIERS. THE LOG SHALL BE DATED AND SIGNED AFTER EACH ENTRY AND THEN TURNED OVER TO THE NPPC PROJECT ENGINEER AT THE COMPLETION OF THE PROJECT.
10. ANY ADDITIONAL REQUIREMENTS LISTED IN THE GENERAL PERMIT.

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- Fertilizers
- Gravel and stone bedding material
- Petroleum based products

SPILL PREVENTION / MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

GOOD HOUSKEEPING

- * An effort will be made to store only enough product required to do the job.
- * All materials stored on site will be stored in a neat, orderly manner in their appropriate containers and under cover.
- * Products will be kept in their original containers with the original manufacturer's label.
- * Whenever possible, all of a product will be used up before disposing of the container.
- * The manufactures recommendations for proper use and disposal will be followed.
- * All vehicles kept on site will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage.
- * Petroleum products will be stored in tightly sealed containers that are clearly labeled.
- * The General Contractor is responsible for keeping mud cleaned from the adjoining street and parking area. Mud will be cleaned up on a daily basis if needed.
- * No fueling, servicing, maintenance, or repair of equipment or machinery may be done within fifty (50) feet of a defined drainage course.
- * The General Contractor will provide trash containers and regularly clean up solid waste such as scrap building or product material, material shipping waste, food containers, and cups.

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

GOOD HOUSEKEEPING

(Continued)

- * The General Contractor will use designated toilets or provide portable toilets for proper disposal of sanitary sewerage.
- * Construction materials will be stored away from drainage courses or low lying areas.

HAZARDOUS PRODUCTS

- * All petroleum and hazardous materials stored on site will be stored in a neat, orderly manner in their appropriate containers and under cover. At anytime the contractor will not store more than 500 gallons of petroleum on site.
- * Drip pans or containment areas will be provided at petroleum and liquid storage tanks and containers.
- * Products will be kept in their original containers UNLESS they are not resealable.
- * The original manufacturer's labels and material safety sheets will be retained; they contain important product information.
- * Whenever possible, all of a product will be used up before disposing of the container. If surplus product must be disposed of, the manufactures' or local and State recommendations for proper use and disposal will be followed.

SPILL CONTROL PRACTICES

The following practices will be followed for spill prevention and cleanup:

- * The manufactures' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information & cleanup supplies.
- * Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite.
- * Spills will be cleaned up **immediately** after discovery.
- * Spills of fuels, paints, or hazardous materials will be immediately reported to the Owner. The Contractor will report spills to government agencies as necessary in accordance with all federal, state, and local regulations.
- * The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if another one occurs. A description of the spill, what caused it, and the cleanup measures will also be included.

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

OWNER'S CERTIFICATION

I hereby certify, that I am or acting as the authorized agent of the owner of the property described in this plan, and that I assume full responsibility for the performance of the operation stated on this plan.

OWNER State of Nebraska

By: _____ Title: Owner

Date: _____

GENERAL CONTRATOR'S CERTIFICATION

I hereby certify that I understand the requirement s stated in this plan, that I am responsible for completing the requirements set forth in the plan and that I am responsible for the performance of the subcontractors listed in the plan.

GENERAL CONTRACTOR

By: _____ Title: _____

Date: _____

SUBCONTRACTOR'S CERTIFICATION

I hereby certify that I understand the requirement s stated in this plan, that I am responsible for completing the requirements, which have been listed in the plan as being a part of my scope of work.

SUBCONTRACTOR _____

By: _____ Title: _____

Date: _____

SUBCONTRACTOR _____

By: _____ Title: _____

Date: _____

SUBCONTRACTOR _____

By: _____ Title: _____

Date: _____

SUBCONTRACTOR _____

By: _____ Title: _____

Date: _____

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

INSPECTION & MAINTENANCE REPORT

(To be filled out weekly or after each rainfall event)

PROJECT NAME: Whitehorse Creek Drainage Project

PROPERTY OWNER: State of Nebraska

ADDRESS:

CITY: North Platte

STATE: NE

ZIP: 69101

INSPECTOR: _____

Date: _____

INSPECTOR'S COMMENTS:

DAYS SINCE LAST RAINFALL _____

AMOUNT OF LAST RAINFALL _____ **IN.**

INSPECTION ITEM	Yes or No	COMMENTS
Are the siltation control fences in good working order?		
Are the siltation control fence support stakes secure?		
Is there evidence of leaking under the fabric?		
Is there evidence of overtopping any siltation control fences?		
Is there evidence of siltation near culvert that crosses county roads?		
Is there evidence of siltation near on-site culvert inlets?		
Is there evidence of siltation into trenches?		

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

Whitehorse Creek Drainage Project

Is there evidence of siltation into Detention Pond?		
Is mud being tracked onto the drop lot or access roads?		
Is there evidence of soil erosion within the project area?		
Were any spills reported? <i>(If yes explain)</i>		

MAINTENANCE REQUIRED:

TO BE PERFORMED BY: _____ on or BEFORE: _____

CHANGES REQUIRED TO THE SWPPP:

REASON FOR CHANGE:

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature: _____

Date: _____

Note: Inspection forms are to be retained by Contractor on-site for the duration of the project. Copies of inspection reports are to be submitted to the Owner at the end of the project.