



ADDENDUM NO. 1

Project: NDOT Nebraska City Weigh Station Scale

Issued: 10/23/2026

Bid Date: 3:00PM Local Time on October 29th, 2026

This Addendum is issued to all known plan holders before receipt of proposals.

The following shall be included with, and considered a part of, the original contract documents to the same extent as if they were included therein, for the construction of the above mentioned project. The Project Manual and Drawings shall be modified or revised as herein described. Where at variance with the original work, this Addendum shall have precedence.

This Addendum modifies the original Bidding Documents. The Bidder must acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject bidder to disqualification.

GENERAL ADDENDA ITEMS:

- A. Drawing A101: Updated dimensions, added doweling detail, added coordination notes. Added Additional 12' camera pole. Details to come on pole type and foundation sizing. Location to be determined during construction by NDOT.
- B. Specification Section 01 10 00 Summary: Modified General Project section individual sheet attached
- C. Specification Section 00 20 00: Interpretation or Correction of Bidding documents section individual sheet attached
- D. Sign In Sheet: Attached
- E. Agenda: Attached

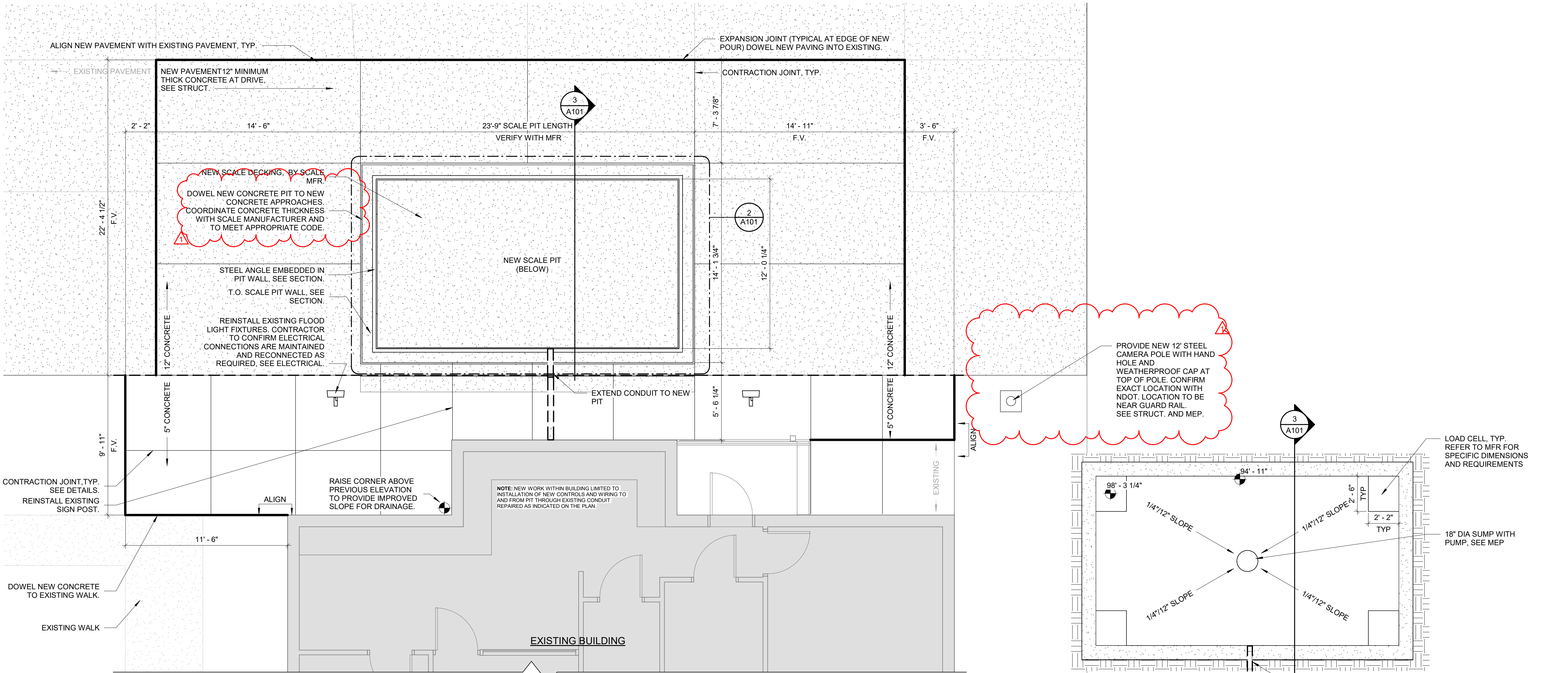
ARCHITECTURAL ADDENDA ITEMS:

- A. Specification Section 11 99 00 Scale Pit and Equipment: Added Warranty information, Modified scale design section. Scale should meet or exceed all applicable codes.

APPROVED SUBSTITUTIONS:

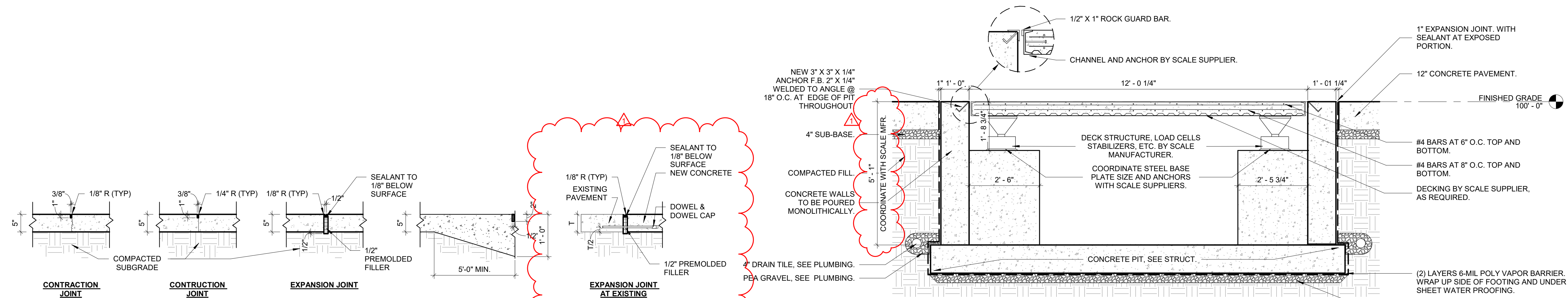
None to Date

END OF ADDENDUM NO. 1



1 SITE PLAN
SCALE: 1/4" = 1'-0"

2 SCALE PIT PLAN
SCALE: 1/4" = 1'-0"



4 PAVEMENT JOINTS
SCALE: 3/4" = 1'-0"

3 SCALE SECTION
SCALE: 1/2" = 1'-0"

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Note: Original drawing format is 22" x 34". Any other sheet size will affect drawing scale.
Erickson Sullivan Architects
Certificate of Authorization No: CA-4491

CONSULTANTS:

STRUCTURAL ENGINEER:
RO YOUKER
STRUCTURAL ENGINEERING
811 S. 13th Street, Lincoln, NE 68508
p.402.477.7640
www.royouker.com
Certificate of Authorization No: CA-0025

MEP ENGINEER:
AES ADVANCED ENGINEERING SYSTEMS
811 S. 13th Street, Lincoln, NE 68508
p.402.477.7640
www.royouker.com
Certificate of Authorization No: CA-1800



NDOT NEBRASKA CITY SCALE REPLACEMENT

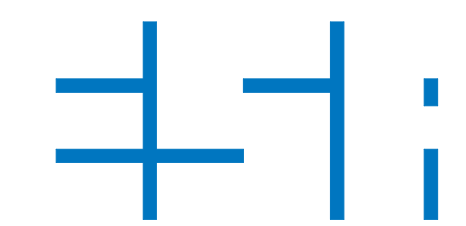
M3F4+Q2,
NEBRASKA CITY, NE 68410

PROJECT NO. 19026
NDOT PROJECT NO. AFE 1-078

CONSTRUCTION DOCUMENTS

DATE: OCTOBER 2, 2026

REV.	DATE	REF.
1	10/23/26	



ERICKSON SULLIVAN
ARCHITECTS

110 S. 14TH STREET, SUITE 200
LINCOLN, NE 68508 TEL. 402.475/787

A101
SITE PLAN

SECTION 01 10 00

SUMMARY

PART 1 GENERAL

1.01 RELATED SECTIONS

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 PROJECT

- A. Project Name: NDOT - Nebraska City Scale Replacement
- B. Owner Name: Nebraska Department of Transportation.
- C. Project Description: Project includes removal of existing scale, pit, other equipment, and surrounding concrete. Replacement is to be a new scale, pit, equipment and drive in a position a few feet north of the existing scale
- D. Include all material, labor, tools, expendable equipment, utility and transportation services, and all incidental items necessary to perform and complete, in a workmanlike manner, the work required for general construction including the miscellaneous work as shown in the Plans, Specifications, and Bid Documents.
- E. Architect/Engineer: Erickson Sullivan Architects, 110 S. 14th Street, Suite 200, Lincoln, NE 68508

1.03 CONTRACT DESCRIPTION

- A. Contract Type: A single prime contract based on a Stipulated Price

1.04 OWNER OCCUPANCY

- A. Owner intends to occupy the Project upon issuance of Substantial Completion Certification.
- B. Cooperate with the Owner to minimize conflict and to facilitate Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy. Nebraska Department of Transportation operations will be ongoing on the project site. Access to the Nebraska Department of Transportation yard and facilities shall remain open at all times.

1.05 WORK BY OWNER

- A. **Owner will supply the following to be installed by the contractor.**
 - 1. N/A
- B. **Owner will supply and install the following:**
 - 1. NDOT will re-stripe the drive lanes as necessary.

1.06 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
- B. The Department will provide the Contractor any available information, which it develops concerning the project, the site, including any surveys concerning physical characteristics, utility locations, legal

3.01 DOCUMENT SETS

- A. Bidders may obtain a complete set of the Bidding Documents from A & D Technical Supply. Contact them at (402) 474.5454 to obtain documents for a refundable deposit of \$100.00.
- B. Documents are also available for viewing at the Lincoln Builders Bureau, Omaha Builders Exchange, Kearney Builders Bureau, Hastings Chamber of Commerce, and Builders Plan Service in Grand Island.

3.02 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

- A. The Bidder shall carefully study and compare the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall at once report to the Architect errors, inconsistencies or ambiguities discovered.
- B. Bidders and Sub-bidders requiring clarification or interpretation of the Bidding Documents shall request such clarification from the Architect at least seven (7) calendar days prior to the bid opening date. Direct inquiries to the Architect, Trevor Hull by Telephone at (402)-475-1787
- C. Interpretations, corrections, and changes of the Bidding Documents shall be made by published Addendum. Interpretations, corrections, and changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon them.
- D. The Architect, working to serve the interests of the Owner, has prepared the plans and specifications and shall make written or verbal interpretations of them. The Architect shall approval all samples of materials which are specified to be submitted for approval, approve the use of any equipment offered in lieu of that mentioned in the specifications and shall check and approve all shop drawings and details. The Architect shall decide all questions which may arise as to the fulfillment of the Contract by the Contractor. Decisions by the Architect with regard to plans and specifications, work and materials, and contract questions shall be made after consultation with the Department.

3.03 SUBSTITUTIONS

- A. Where Bidding Documents refer to any items, materials, products, and equipment by means of one or more manufacturer's trade name, catalog reference, or similar means of identification or manufacturer, such references establishes standard of required quality, appearance, dimension or function.
- B. Request for proposed substitutions shall be received by the Architect no later than seven (7) calendar days prior to the receipt of bids.
- C. All approved substitutions shall meet the requirements of Specification Section 16000, Product Requirements and shall be set forth in published Addenda. No Bidder shall rely upon approvals made in any other manner.
- D. Bidder shall assume and bear all responsibility for coordinating and performing related changes in the Work necessitated by such substitution and has included such costs in the Bid.

3.04 ADDENDA

- A. Addenda are written and/or graphic instruments prepared by the Architect and issued prior to the Bid opening date, which modify or interpret the Bidding documents by additions, deletions, clarifications, or corrections. Addenda shall be binding and shall become part of the Contract Documents.

	Name:	Company/Firm/Agency:	Phone Number:	E-Mail Address:
1.	Martin Bena	NDOT – Operations CAP FAC	531.510.8777	Martin.bena@nebraska.gov
2.	Trevor Hull	ERICKSON SULLIVAN ARCHITECTS	402.475.1787	trevor@ericksonsullivan.net
3.	Jan Albin	Booge General Contractors	402-441-3100	Bids@roggeinc.com
4.	Ryan Taylor	CROSS ARCHITECTURE, MANASSA	405-850-0189	RYAN.TAYLOR@CROSSCO.COM
5.	Sean Deardon	Fairbanks	402-871-3540	sdeardon@fairbanks.com
6.	Don Borsh	Fairbanks Scales	402-506-0433	DBorsh@Fairbanks.com
7.	Jeff Boring	Accurate Super Scale	816-365-5814	JeffBoring@ACScale.com
8.	Brian Claycomb	Cohlinghorst Excavation	402.937.2632	brianeghlinghorstexcavation.com
9.	Casey Leif	Genesis Contracting	402-366-5119	caseyleifgenesiscontractinggroup.com
10.				

Name:

Company/Firm/Agency:

**Phone
Number:**

E-Mail Address:

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21.



Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION

PRE-BID CONFERENCE

District 1

Nebraska City Weigh Station, Scale Replacement

PROJECT AFE I-W078

Wednesday, October 21st 2026, 10:00 am local time

INTRODUCTORY REMARKS:

INTRODUCE SELF – GOOD AFTERNOON! I am Martin Bena – Facilities Construction Coordinator II for the Nebraska Department of Transportation. I would like to THANK YOU for your interest in the above mentioned project.

The Purpose of this conference is to answer any Administrative or Technical questions you may have and to provide you with an opportunity to look at the Project Site.

INTRODUCTIONS – I would like to make some Introductions:

Additional Attendees

SIGN IN SHEET– Has everyone had a chance to sign the Sign In Sheets that are circulating? Be sure and sign in before you leave.

ADDENDUMS

Be sure to check at the officially designated plan room service for any addendums prior to bidding.

BID FORM

On completing the Bid Proposal Form contained in the Bid Packet (Section 00 40 00):

1. Please fill out the Bid form completely for all applicable items.
2. Sign the Bid Form in [Blue Ink](#).
 - Bids received without original signature or
 - signed in pencil will not be accepted.
3. Return all pages of the Bid Form.
4. On the Bid Form, there is a Total Base Bid Amount, ~~three~~ alternates and ~~one~~ unit price requested.
5. Be sure to enter your Bid Proposal amounts correctly in both words and figures as required on the Bid Proposal Form.
6. The Bid Review Committee will review the Bids for any discrepancies.
7. Provide the bid in an envelope marked "BID".

BID

NDOT District 1

Nebraska City Weigh Station, Scale Replacement

BIDS DUE

1. The Bids are due
 - a. NO LATER THAN 3:00:00 PM
 - b. on Thursday, October 29th 2026

Bids mailed to this office shall be addressed to: Nebraska Dept. of Transportation
Operations Division-attn: CAP FAC
PO Box 94759
Lincoln, NE 68509-4759

Bids delivered in person shall be delivered to: Nebraska Dept. of Transportation
Operations Division-attn: CAP FAC
5001 South 14th Street
Lincoln, NE 68512

2. Parking is available in the South Parking Lot.
3. The Bids will be publicly opened and recorded.

You are welcome to stay and attend the Bid Opening.

DRUG POLICY

By signing the Bid Proposal, the Bidder is committed to provide a drug free workplace environment. If requested by the Nebraska Department of Transportation, the Bidder must furnish evidence that they have a Drug Free Workplace Policy.

BID REVIEW COMMITTEE

The "Bid Review Committee" will meet within one week after the Public Bid Opening to review the bids for any irregularities and to award the contract on the Project.

CONTRACT REVIEW

Contracts will then be prepared by CAP FAC and reviewed by a representative of the Nebraska Attorney General. The contract review takes about two weeks. Once the contract review is complete, the contracts will go to the Contractor for signature.

LIQUIDATED DAMAGES

Liquidated damages will be assessed for this project in the amount of \$500/day for every calendar day the work remains unfinished after the established date of substantial completion which is June 1st 2027.

MANDATORY MEETINGS

After the Contract is fully executed, a PRE-CONSTRUCTION MEETING will be held at a Nebraska Department of Transportation facility near the project location after the Contracts, Performance Bonds, and Certificate of Insurance have been received.

INVOICE PAYMENTS ON PROJECT

1. Payments will be made by DIRECT DEPOSIT on the project in accordance with State of Nebraska procedures. Payments will be made within 45 days after the invoices are received at the CAP FAC Office.

2. The Nebraska State Treasurer requires that payments in excess of \$25,000 will be made by direct deposit instead of State Warrants (checks).
3. The Contractor must establish a direct deposit payments enrollment with the State Treasurer (ACH – Automated Clearing House). The enrollment form will be provided at the Pre-Construction Meeting.

EQUIPMENT STORAGE & MATERIAL STORAGE AT THE SITE

The Contractor is responsible for the security of their equipment and any materials left at the site.

The Contractor is expected to keep the construction site clean and free of trash and debris during the project. Daily cleaning shall be completed.

USE OF SITE

The Contractor is responsible for the security and safety of the site at all times.

The construction area should be kept neat and tidy, and adjacent space and roads to be kept clean and clear. Contractor responsible for repair of any damages to facilities and property on a Daily basis.

HOURS OF OPERATION AT THE PROJECT LOCATION:

The Contractor will have full control of the project site and will not have any limitations on Hours of Operations.

COORDINATION ON OTHER CONSTRUCTION AT FACILITY

None at this time

USE OF SANITARY FACILITIES:

Supply and upkeep of appropriate Sanitary Facilities will be the responsibility of the Contractor for Contractor staff and sub-contractors working at the site.

Or

Contractor is allowed to use facilities on-site on a contingent basis that the

facilities remain as clean as kept by NDOT staff. Failure to maintain cleanliness may result in the request to provide temporary facilities for project.

This project is a high visibility project, and communication is critical to this project.

ALTERNATIVE/ADDITIVE BID ITEMS

There are 0 Alternate Bids Items and 0 Unit Price Item called out for in this project.

Alternate Number 1 – None

CONSULTANT COMMENTS

Contact for questions was incorrectly listed in the Instructions to Bidders in the Specifications as another architect and firm. Questions should be sent to:

Trevor Hull, Erickson Sullivan Architects: trevor@ericksonsullivan.net

or

Ben Brewer, Erickson Sullivan Architect: ben@ericksonsullivan.net

CONTRACTOR QUESTIONS AND COMMENTS

It was asked when Notice To Proceed is anticipated to be issued - NDOT intends to issue NTP as soon as a contract is completed and all required information is received from the low bidder (bond, insurance, etc.). This is anticipated to be as soon as mid-November if possible.

MEETING ADJOURNED TO PROJECT SITE FOR ADDITIONAL QUESTIONS:

PROJECT SITE EXAMINATION

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There is no handwriting or other markings on the paper.

SECTION 11 99 00

SCALE PIT AND EQUIPMENT

PART 1 – GENERAL

1.1 PROJECT SCOPE SUMMARY: THE SCOPE OF WORK IS FOR THE COMPLETE, TURNKEY REPLACEMENT OF THE EXISTING 12' X 20' TRUCK SCALE AND SCALE PIT WITH A NEW, COMMERCIALLY CERTIFIED VEHICLE WEIGHING SYSTEM. THIS INCLUDES THE DESIGN, SUPPLY, INSTALLATION, INTEGRATION, AND CALIBRATION OF A NEW WEIGHBRIDGE, LOAD CELLS, PIT, FOUNDATION, FOUNDATION INTERFACE, AND IF NECESSARY, THE COMPLETE REPLACEMENT OF ALL ASSOCIATED SCALE HOUSE ELECTRONICS, HARDWARE, AND SOFTWARE TO ENSURE A FULLY OPERATIONAL, INTEGRATED, AND RELIABLE WEIGHING SOLUTION.

1.2 GENERAL

- A. The design, detailing, fabrication, and installation of the truck scale and associated pit structure shall be provided under delegated design by the manufacturer or specialty engineer. The delegated designer shall be a professional engineer licensed in the state of Nebraska and shall submit sealed calculations and shop drawings for review and approval prior to fabrication or construction.
- B. Governing Standards. The scale systems shall have been issued a Certificate of Conformance by the National Type Evaluation Program, (N.T.E.P.) and shall conform to the following federal, state, local, and industrial standards.
 - 1. National Institute of Standards and Technology (NIST), Handbook 44, "Specifications, Tolerances, and Technical Requirements for Weighing and Measuring Devices".
 - 2. Applicable state regulations for commercial weighing devices.
 - 3. American Welding Society AWS D1.1, latest edition.
 - 4. Weighbridge structural steel and structural steel embedments shall conform to ASTM A36.
 - 5. Reinforcing steel shall conform to ASTM A615, Grade 40 or Grade 60.
- C. Anchor Bolts. All anchor bolts, nuts, and washers shall be made of carbon steel or comparable and may be plated.
- D. Edge Grinding. Sharp projections of cut or sheared edges of ferrous metals, which are not to be welded, shall be ground as required to ensure paint adherence.
- E. Surface Preparation. All ferrous metal surfaces, except stainless steel or plated steel, shall be blast cleaned in the shop in accordance with the paint manufacturer's recommendations. All mill scale, rust, and contaminants shall be completely removed before shop primer is applied. The components of each module shall be cleaned to an SSPC-SP6 finish prior to painting.
- F. Shop Painting. All steel surfaces, except stainless steel or plated steel, shall be coated with a PPG AUE-370 high solids acrylic urethane, a two component chemically cross-linked commercial coating system. The paint system will be applied per the manufacturer's recommendations. See attached data sheet.
 - 1. Additional field painting other than touchup painting of damaged surfaces will not be required.
- G. Power Supply. Unless otherwise specified, the power supply to the equipment will be a dedicated 120 volt, single phase, 60 Hz connection. Where control voltages lower than the power supply voltage is required, suitable control power transformers shall be furnished.
- H. Surge Voltage Protection. The scale system shall be surge and lightning protected. This protection shall include a surge protection device which plugs into a standard 115 VAC outlet. The load cells shall be optically isolated, and surge protected. The scale shall have a dual point ground rod system for the

grounding of the weighbridge, power supply, and the sectional controllers. Electrical diagrams of the scale grounding and surge protection shall be supplied with submittals. The surge voltage package shall be provided as a unit and be tested and approved by the scale manufacturer.

1. Surge protection devices or components not designed or tested by the scale manufacturer as a unit are unacceptable.

1.3 SCALE HOUSE ELECTRONICS AND INTEGRATION (IF NECESSARY)

1.4 THE BIDDER SHALL SUPPLY AND INSTALL NEW, CURRENT-MODEL ELECTRONICS THAT ARE 100% COMPATIBLE WITH THE PROPOSED LOAD CELL SYSTEM AND WILL REPLACE THE EXISTING FAIRBANKS INDICATOR AND ASSOCIATED COMPUTER INTERFACES.

1.5 SOFTWARE AND SUBSCRIPTIONS

- A. Provide the latest version of the scale manufacturer's or approved third-party Scale Data Management Software.
- B. Software must be a permanent, licensed copy.
- C. The Bidder shall provide a detailed schedule of all recurring financial obligations (including, but not limited to, software licenses, annual support contracts, and cloud subscriptions) that the Owner will incur subsequent to the initial project term.
- D. All Recurring Financial Obligations (including, but not limited to, software licenses, annual support contracts, and cloud subscriptions) that the Owner will incur subsequent to the initial project term shall be explicitly detailed by the Bidder in their submission. The impact and total cost of these obligations will be a significant factor in the evaluation process and may result in the non-acceptance of the proposed scale system, regardless of the overall bid price.
- E. The bid price shall include any mandatory cloud subscriptions, annual licenses, or renewal fees required for the first 36 months (3 years) of operation.

1.6 EXISTING INFRASTRUCTURE

- A. The Bidder shall be solely responsible for ensuring the new weighing system is fully compatible with, and correctly integrated into, the existing site infrastructure.
- B. The new weight indicator and software must generate the correct signals and data streams to maintain the designed functionality of all pre-existing systems, including, but not limited to: Stop-and-Go Traffic Lights, Communication Speakers/Intercoms, Pre-Pass Transponder Readers, Infrared Detection (IRD) Systems, and Weigh-In-Motion (WIM) Systems.
- C. The Bidder shall provide all necessary converters, interface modules, programming, and wiring to achieve seamless, day-one operational compatibility without degradation of existing system performance.

1.7 WARRANTY REQUIREMENTS

- A. Term: The Bidder shall provide the most comprehensive warranty commercially available for the proposed equipment, but in no case less than three (3) years on the new weighbridge structure and ten (10) years on all new load cells and electronics. Warranty shall cover load cells from moisture and lighting
- B. Coverage: Warranty shall cover parts, labor, and travel costs associated with the repair or replacement of defective components.
- C. Calibration Guarantee: The Bidder shall include **one free re-calibration service** during the first year of

operation, scheduled at the Owner's discretion, to correct any drift or minor adjustments that may occur after the initial break-in period.

1.8 SUBMITTALS

- A. Complete foundation and installation drawings, together with detailed specifications and data covering materials, parts, devices, and accessories forming a part of the equipment furnished, shall be submitted in accordance with the submittals section.
- B. Drawings shall cover all scale components, foundation details, and pier loading information necessary for installation.
- C. Contractor to provide a copy of product warranty. Warranty to comply with section listed below.

PART 2 – PRODUCTS

2.1 SCALE DESIGN

- A. General Description. The scale manufacturer (model) shall be Fairbanks (Tundra Series), Rice Lake, Survivor OTR or Mettler Toledo (7541). Equipment is to consist of parts designed to act as a unit by a manufacturer experienced in design, construction, manufacture of electronic components, and operation of equipment for the purpose required.
- B. Scale Capacity and CLC. The N.T.E.P. approved scale shall have a minimum concentrated load capacity (CLC) of 100,000 lbs.
- C. Weighbridge Design. The platform shall be 20 feet long and 12 feet (304.8 cm) wide and be comprised of 6" thick concrete deck poured on-site using 4000 psi (27579.04 kPa) compressive strength concrete. The deck is to be lined along the bottom with corrugated steel, a reinforcing mat shall be set into place the length and width of the scale deck and the deck channel is to have studs welded to the steel to form a composite structure when the concrete is added. The scale shall have one (1) 24" manholes and an access panel above the sand/oil interceptor where indicated on drawings.
- D. Checking. The scale shall utilize longitudinal and lateral bumper checking. The scale shall be completely self-checking. No check rods or flexure checking plates are to be used. Checking shall be mechanically isolated from the load cell, or load cell stands/base plates.
- E. Load Cell and Controller/Junction Box Specifications. The scale shall have a rocker column load cells. Each rocker column load cell shall have a minimum gross rated capacity of 75,000 lbs each. The load cells shall be constructed of stainless steel and shall be completely hermetically sealed to prevent moisture from entering the cell. Load cells shall be nitrogen filled to retard internal corrosion. Load cells shall meet the following specifications:
 - 1. Design Rocker column
 - 2. Load cell material: Stainless Steel, 17-4 PH
 - 3. Minimum capacity: 75,000 lbs
 - 4. Maximum Height: 5.5"
 - 5. Protection: NEMA 6P/IP69K
 - 6. Excitation voltage: 5 to 15 Volts
 - 7. Input resistance (ohms): 1150 +/- 50
 - 8. Output resistance (ohms): 1000 +/- 2
 - 9. Operating temperature: -40 to 176oF (-40 to 80oC)
 - 10. Safe load limit (% of Capacity): 200%
 - 11. Ultimate load (% of Capacity): 300%
 - 12. Minimum dead load: 0
 - 13. Rated Output (mV/V): 2.0
 - 14. Load cell cable: Stainless steel braid.
 - 15. Junction boxes shall not be permitted in the scale or between the building exterior and the

- scale foundation
16. NTEP Accuracy Class: IIL, 10,000 divisions
 17. The load cell shall have a minimum 10-year warranty against defects in materials and workmanship and failure resulting from moisture and lightning or surge voltages. The warranty shall cover all costs associated with replacement parts, travel, mileage, on-site labor, and recalibration after repair, the full cost of which shall be supported solely by the manufacturer and not in part by any other third party.
 18. The load cell shall be provided with a shielded, 4 conductor cable with a polyurethane jacket. Load cell cabling shall be protected by a stainless steel armor to protect against abrasion or rodent damage. Load cell cables must be hard wired to the load cell. "Quick disconnect" load cell cable connectors on cells or on junction boxes are not acceptable.
 19. Load cell output shall be a DC analog signal. Load cells with digital output shall not be acceptable. Each load cell shall be optically isolated via a smart sectional controller. PC boards shall be encapsulated in epoxy or similar material. A board that is not protected in this fashion is unacceptable. Furthermore, each encapsulated board shall be housed in a type 304 Stainless steel enclosure rated NEMA 4X. Access to the encapsulated board within the smart sectional controller enclosure shall be achieved without the use of tools. Bolts, screws or other hardware shall not be used to seal the smart sectional controller enclosure.
 20. The scale shall have self-diagnostic capabilities able to identify load cell problems, failure, and predict failure before it occurs to prevent downtime. The diagnostics are to measure load cell counts (not weight) and will be used to determine reliability. Should a load cell fail, the instrumentation shall identify the specific load cell that has failed. All trouble shooting shall be done from within the scale house.

2.2 PLATFORM AND FOUNDATION PIT REQUIREMENTS

- A. The weighbridge and load cell assemblies shall be supported by a reinforced concrete pier type or full slab foundation as indicated on the drawings.
- B. The dimensions for the scale foundation and platform shall be as recommended by the equipment manufacturer and accepted by the Engineer.
- C. Reinforcing steel placement and structural steel embedment placement shall be performed as shown on the manufacturer's foundation drawings.
- D. The scale manufacturer shall furnish the following items for construction of the scale platforms and pits:
 1. Weighbridge modules
 2. Longitudinal and lateral bumper checking devices
 3. Load cells and load cell assemblies.
 4. Anchor bolts.
 5. Platform and end wall painted structural steel embedment's.
- E. The scale pit shall be provided by delegated design and shall include, but not be limited to:
 1. Soils testing as required upon demolition of existing scale to confirm minimum bearing conditions of 1,500psf.
 2. Scale foundation and pit system, including load-bearing and lateral load design.
 3. Integrated approach and exit pad design. See plans for size.
 4. Connection details to adjacent structural and civil elements.
 5. Accommodation of drainage, conduit penetrations, and access requirements. See mechanical plans for additional information.
 6. Coordination of dimensional and elevation requirements with site civil and electrical drawings.
- F. Scale Pit design requirements: All design loads, including dead, live, vehicle, and environmental loads, shall comply with applicable local codes and the latest AASHTO and ASTM standards.

- G. Scale Pit Special Inspection requirements: All testing shall be performed by qualified testing specialist. All cost of special inspections by contractor. See plans for listing of required special inspections.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install the pit and foundation as approved by the structural engineer through the shop drawing process. Refer the plans for ancillary items that are required to be integrated into the overall design and installation of the pit/foundation.
- B. The scale shall be manufactured, provided, and installed by a scale company that has a minimum of five years of experience installing similar truck scale systems.
- C. The installer shall configure the scale system as indicated on the certified drawings. All concrete work shall be as indicated on the drawings and as specified in the cast-in-place concrete section. Anchor bolts shall be set as required by the scale manufacturer's drawings.

3.2 STARTUP, CERTIFICATION, AND TRAINING

- A. Start-up: The Bidder shall perform all necessary functional testing and startup procedures.
- B. Certification: The Bidder shall provide all test weights, labor, and documentation required to successfully obtain **Legal for Trade (LFT) certification** from the governing Weights and Measures authority. The scale shall be calibrated and certified as accurate and ready for commercial use prior to substantial completion. **The date of substantial completion will not be established until the certification is complete.**
- C. Training: Provide complete hands-on training for Owner's personnel on the operation, basic maintenance, and software utilization of the new scale system.

END OF SECTION 11 99 00



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