

TOWN OF GLASTONBURY

INVITATION TO BID

<u>BID #</u>	<u>ITEM</u>	<u>DATE & TIME REQUIRED</u>
GL-2018-23	Vehicle Weighing Scale	June 27, 2018 @ 11:00AM

The Town of Glastonbury is currently seeking bids for a vehicle weighing scale.

Bid Forms may be obtained from the Town's website at www.glastonbury-ct.gov or at the Office of the Purchasing Agent, Town Hall, 2155 Main Street, Glastonbury, Connecticut 06033, (second level).

The Town reserves the right to waive informalities or reject any part of, or the entire bid, when said action is deemed to be in the best interest of the Town. All Sealed Bids must be submitted to the Office of the Purchasing Agent no later than the time and date indicated. All bids will be publicly opened and read.

The Town of Glastonbury is an Affirmative Action/Equal Opportunity Employer. Minority / Women / Disadvantaged Business Enterprises are encouraged to bid.

Mary F. Visone
Purchasing

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1. Sealed bids (**one original and one copy**) on the attached Bid Forms will be received at the Office of the Purchasing Agent, Town Hall, 2155 Main Street, Glastonbury, Connecticut, 06033 (second level). At the designated time of opening, they will be publicly opened, read, recorded and placed on file.
2. Whenever it is deemed to be in the best interest of the Town, the Town Manager, Purchasing Agent or designated representative shall waive informalities in any and all bids. The right is reserved to reject any bid, or any part of any bid, when such action is deemed to be in the best interest of the Town of Glastonbury.
3. The award will be on the basis of the total bid cost received from the lowest qualified, responsible and responsive bidder unless otherwise specified. The total bid cost for the vehicle weighing scale shall be furnished and installed as per the bid specifications herein. (Reference Bid Proposal Form – BP-1)
4. Bids will be carefully evaluated as to conformance with stated specifications.
5. The envelope enclosing your bid should be clearly marked by bid number, time of bid opening, and date, bidder's company name and address.
6. Specifications must be submitted complete in every detail and, when requested, samples shall be provided. If a bid involves any exception from stated specifications, they must be clearly noted as exceptions, underlined, and attached to the bid.
7. The Bid Documents contain the provisions required for the requested item. Information obtained from an officer, agent, or employee of the Town or any other person shall not affect the risks or obligations assumed by the Bidder or relieve him/her from fulfilling any of the conditions of the bid.
8. Each Bidder is held responsible for the examination and/or to have acquainted themselves with any conditions at the job site which would affect their work before submitting a bid. Failure to meet these criteria shall not relieve the Bidder of the responsibility of completing the bid without extra cost to the Town of Glastonbury.
9. Any bid may be withdrawn prior to the above-scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and the date specified shall not be considered. No Bidder may withdraw a bid within sixty (60) days after the actual date of the opening thereof. Should there be reasons why a bid cannot be awarded within the specified period, the time may be extended by mutual agreement between the Town and the Bidder.
10. Each bid must be accompanied by a bid bond payable to the Town for ten percent (10%) of the total amount of the bid. The bid bond of the successful Bidder will be retained until the payment bond and performance bond have been executed and approved, after which it will be returned. A certified check may be used in lieu of a bid bond. The Town of Glastonbury

will not be liable for the accrual of any interest on any certified check submitted. Cashier's checks will not be accepted.

11. **THIS ITEM WAIVED:** A 100% Performance and Payment bond is required of the successful bidder. This bond shall cover all aspects of the specification and shall be delivered to the Purchasing Agent prior to the issuance of a purchase order. The Performance and Payment Bond will be returned upon the delivery and acceptance of the bid items.
12. The Bidder agrees and warrants that in the submission of this sealed Bid, they will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religion, national origin, sex, or physical disability including, but not limited to blindness, unless it is shown by such Bidder that such disability prevents performance of that which must be done to successfully fulfill the terms of this sealed Bid or in any manner which is prohibited by the laws of the United States or the State of Connecticut: and further agrees to provide the Human Relations Commission with such information requested by the Commission concerning the employment practices and procedures of the Bidder. An Affirmative Action Statement will be required by the successful Bidder.
13. Bidder agrees to comply with all of the latest Federal and State Safety Standards and Regulations and certifies that all work required in this bid will conform to and comply with said standards and regulations. Bidder further agrees to indemnify and hold harmless the Town for all damages assessed against the Town as a result of Bidder's failure to comply with said standards and/or regulations.
14. All correspondence regarding any purchase made by the Town of Glastonbury shall reference the Town purchase order number. Each shipping container shall clearly indicate both purchase order number and item number.
15. Bidder is required to review the Town of Glastonbury Code of Ethics adopted July 8, 2003 and effective August 1, 2003 and revised October 29, 2013 and effective November 8, 2013. Bidder shall acknowledge that they have reviewed the document in the area provided on the bid/proposal response page (BP). The selected Bidder will also be required to complete and sign an Acknowledgement Form prior to award. The Code of Ethics and the Acknowledgement Form can be accessed at the Town of Glastonbury website at www.glastonbury-ct.gov. Upon entering the website click **Bids & Proposals Icon** which will bring you to the links for the Code of Ethics and the Acknowledgement Form. If the Bidder does not have access to the internet, a copy of these documents can be obtained through the Purchasing Department at the address listed within this bid/proposal.
16. Non-Resident Contractors:
Upon award the Town is required to report names of nonresident (out of state) Contractors to the State of Connecticut, Department of Revenue Services (DRS) to ensure that Employment Taxes and other applicable taxes are being paid by Contractors. A single surety bond for 5% of the entire contract price is required to be filed with DRS by any

unverified nonresident prime or general contractor (if awarded) where the contract price for the project is \$250,000 or more. The contractor will be required to promptly furnish to the Town a copy of the Form AU-968 - Certificate of Compliance issued by the State of Connecticut, DRS. See State of Connecticut Notice SN 2012 (2).

17. Bidder shall include on a sheet(s) attached to its proposal a complete disclosure of all past and pending mediation, arbitration and litigation cases that the bidder or its principals (regardless of their place of employment) have been involved in for the most recent five years. Please include a statement of the issues in dispute and their resolution. Acceptability of Bidder based upon this disclosure shall lie solely with the Town.
18. Bidder or its principals, regardless of their place of employment, shall not have been convicted of, nor entered any plea of guilty, or nolo contendere, or otherwise have been found civilly liable or criminally responsible for any criminal offense or civil action. Bidder shall not be in violation of any State or local ethics standards or other offenses arising out of the submission of bids or proposals, or performance of work on public works projects or contracts.
19. The Town of Glastonbury is dedicated to waste reduction and the practice of using and promoting the use of recycled and environmentally preferred products. Bidders are encouraged to submit bid responses that are printed double-sided (except for the signed proposal page) on recycled paper, and to use paper dividers to organize the bid for review. All bid pages should be secured with a binder clip, staple or elastic band, and shall not be submitted in plastic binders or covers, no shall the bid contain any plastic inserts or pages. We appreciate your efforts towards a greener environment.
20. Technical questions regarding this bid shall be made in writing and directed to Michael Bisi, Superintendent of Sanitation, email mike.bisi@glastonbury-ct.gov. For administrative questions regarding this Bid, please contact Mary F. Visone, Purchasing Agent, email purchasing@glastonbury-ct.gov. All questions, answers, and/or addenda, as applicable will be posted on the Town's website at www.glastonbury-ct.gov. (Upon entering the website click on Bids & Proposals Icon, click the Bid Title to view all bid details and document links.). The request must be received at least three (3) business days prior to the advertised response deadline. **It is the respondent's responsibility to check the website for addenda prior to submission of any bid/proposal.**

IMPORTANT:

- **Failure to comply with general rules may result in disqualification of the Bidder.**
- **Municipal projects are exempt from Federal Excise Taxes, as well as, State of Connecticut Sales, Use and Service Taxes and should not be include in the Bidder's proposal.**

1.0 GENERAL

1.1 Scope. The Town of Glastonbury, Refuse Disposal Division is seeking bids for the purchase and installation of a replacement electronic above ground vehicle scale system for use at its Bulky Waste Landfill Facility located at 1145 Tryon St., South Glastonbury, CT. The scale shall be furnished and installed complete as specified in the following paragraphs, including platform, foundation, load cells, indicator, surge voltage protection system, and the services of the manufacturer's service representative.

All work must be performed during regular business hours Monday through Friday, 7:00 am through 3:30 pm unless other arrangements are made and approved by the Town. As a condition of Bid award this facility must remain operational during the work and existing system removal and new installation must be done as expeditiously as possible. A detailed schedule of all work shall be provided with submission of the Bid.

1.1.1. Acceptable Manufacturer. The truck scales furnished under this section shall be manufactured by Fairbanks Scales or Town approved equal. All bidders must provide complete and detailed drawings and specifications on all equipment with submission of the Bid. The scale shall be manufactured, provided and installed by a scale company that has a minimum of five (5) years experience with the installation and service of similar truck scale systems as specified. A reference list of at least four (4) similar systems within the New England area shall be provided with submission of the Bid.

1.2 General. Equipment furnished and installed under this section shall be assembled, erected, and placed in proper operating condition in full conformity with drawings, specifications, engineering data, instructions, and recommendations of the equipment manufacturer unless exceptions are noted by the Engineer.

1.2.1. General Equipment Stipulations. The General Equipment Stipulations shall apply to all equipment furnished under this section.

1.2.2 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.

- National Institute of Standards and Technology (NIST), Handbook 44, "Specifications, Tolerances, and Technical Requirements for Weighing and Measuring Devices".
- Applicable state regulations for commercial weighing devices.
- American Welding Society AWS D1.1, 2008.
- Weighbridge structural steel and structural steel embedments shall conform to ASTM A36. Reinforcing steel shall conform to ASTM A615, Grade 60.

- Concrete mix for scale deck shall be tested in accordance with ASTM standards for air entrainment (ASTM C231), slump (ASTM C143), temperature (ASTM C1064), and compressive strength (ASTM C39).
 - Concrete flatwork for scale deck shall be placed, consolidated and finished in accordance with, and conform to the requirements of ACI 301 (American Concrete Institute). Finishing work shall be performed utilizing high-quality techniques conforming to the ACI standards as set forth in ACI CP-10 and shall be supervised by an ACI certified concrete flatwork technician.
- 1.2.3. Anchor Bolts.** All anchor bolts, nuts, and washers shall be made of carbon steel or comparable, and may be plated.
- 1.2.4. 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.
- 1.2.5. 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.
- 1.2.6. 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. Additional field painting other than touchup painting of damaged surfaces will not be required.
- 1.2.7. 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
- 1.2.8. 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 Volt AC 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. Surge protection devices or components not designed or tested by the scale manufacturer as a unit are unacceptable.

- 1.3 Submittals.** 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. Drawings shall cover all scale components, foundation details, and pier loading information necessary for the design of the scale foundation or installation.

2.0 PRODUCTS

2.1. Scale Design

2.1.1. General Description. The scale shall be a 60 feet x 11 feet Fairbanks Trident or Town approved equal precast concrete deck, fully-electronic truck scale with rocker column load cells. Scale shall be a “flat top” orthotropic design and not require side beams above the surface of the deck. Equipment is to consist of parts designed to act as a unit by a manufacturer experienced in design, construction, manufacture of electronic components, as well as operation of equipment for the purpose required.

2.1.2 Scale Capacity and CLC. The N.T.E.P. approved scale shall have a minimum capacity of 100 tons and have a minimum concentrated load capacity (CLC) of 80,000 pounds.

2.1.3. Weighbridge Design. The platform shall be 60 feet long and 11 feet wide and be comprised of nominal 4 inch factory poured and cured concrete deck reinforced by 8 inch structural steel wide flange beam stringers which run the full length of the module. Side beams shall be 12 inch structural steel members having nelson studs attached to the internal sides of each beam to create a composite connection between the concrete and the steel. The scale shall be an open bottom design. There shall be no corrugate sheeting entombed within the modules. There shall be no “cover plates” built into the deck for top access of load cells. Understructure components consisting of formed U’s, bent plates, or a bottom pan shall not be used. Steel deck scales or “poured in place” concrete deck scales will not be considered with the mind state of safety and down time.

The maximum deflection for legal highway loads shall not exceed $1/1300^{\text{th}}$ of span and the bending stress in any member shall not exceed 20,000 psi at the rated CLC of 80,000 pounds.

The scale shall be built to be on the existing foundation with minimal modifications.

The truck scale deck shall be a factory poured and steam cured concrete deck and shall be delivered on-site ready to use. The factory poured deck

shall include an ultimate 8,000 psi compressive strength concrete deck. The weighbridge deck concrete system shall contain silicate fume at a rate of at least 10% of the cementitious material and shall contain steel fiber reinforcement for tensile strength and impact protection. A poured in place design will not be accepted.

2.1.4. Rub rails. The scale shall include one set of dual pipe rub rails installed in the field. Rub rails shall be painted safety yellow and sit 24 inches from the top of the deck to the top of the rail and flair outward. Rub rails will be attached to the left side of the scale on the entrance end of the scale for one 60 foot length, and 40 feet on the right side (end module and center module) allowing the first module to not incorporate rub rails on the right side for customer egress to scale house. Rub rails shall be painted in the same manner as the weighbridge.

2.1.5. 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 and load cell stands/base plates.

2.1.6. 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 66,000 pounds 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:

Minimum capacity:	66,000 pounds
Design	Rocker column
Rated Output (mV/V):	2 ± 0.1%
NTEP Accuracy Class:	III, 10,000 divisions
Combined error (%RO):	≤ ± 0.0200%
Temperature effect on sensitivity (%/°C):	...≤ ± 0.0166%
Excitation voltage:	5 to 15 Volts
Zero balance (%RO):	≤ ± 5.0%
Insulation resistance (megaohms):	≥5000
Compensated temperature range (°C):	...-10° to +40°
Operating temperature range (°C):	...-40° to +80°
Safe load limit (% of Capacity):	200%
Ultimate load (% of Capacity):	300%
Load cell material:	Stainless steel
Sealing:	Hermetically sealed; cable entry sealed by glass to metal header
Protection:	NEMA 6P/IP69K

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 braided 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.

Load cells shall have a 25 year warranty including surge or lightning damage that may occur while the scale is serviced by an authorized manufacturers agent per manufactures warranty statement.

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.

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, Foundation, and Demolition Requirements.

The scale contractor shall prepare the existing foundation to accept one new 60 foot x 11 foot pit style scale. This work shall include:

- Removal of existing 60 foot x 10 foot weighbridge with disposal on site as directed by the Town (existing concrete dead-men to be moved by the Town of Glastonbury). Existing scale to be disconnected and removed from foundation, crane service to be included in scope of work.
- Scale contractor to cap existing 10 foot x 12 foot approaches 12 inch elevating scale enabling scale to utilize 5-3/4 inch riser plates. Riser plates will enable 10 inch of clearance between top of existing piers and bottom of scale deck. Work includes: drilling into existing approaches, pin with new rebar, build rebar mats in each approach per manufactures certified drawings, furnish and pour 4000 psi concrete with broom finish.
- Smoothing out/cleaning up existing piers for installation of specified riser plates on existing piers.

- Construct two new 3 foot x 3 foot x 12 inch thick pedestals for remote displays. Each pedestal shall include two 2 inch conduit stubs for hook up by others including one conduit for AC power and one conduit for interface cable.

3.0 SCALE INSTRUMENT DESIGN. The scale instrument shall be a Fairbanks Scales Model FB2550 digital scale or Town approved equal.

3. The scale instrument shall be N.T.E.P. approved with an Accuracy Class of III / IIIL.

3.1.1. The scale instrument shall feature a Category II Audit Trail.

3.2 SCALE INSTRUMENT HARDWARE SPECIFICATIONS

3.2.1. Processor shall be a 1.6 GHz processor minimum.

3.2.2. Memory shall be 1 GB RAM minimum.

3.2.3. Serial Ports shall be a minimum of three (3) externally accessible RS232 ports.

3.2.3.1. One RS232 port shall be capable of being configured for RS485.

3.2.4. Minimum of four (4) externally accessible USB 2.0 ports standard.

3.2.5. Dedicated 20 mA interface for interfacing with remote displays. Interface shall support both active and passive remote displays.

3.2.6. External QWERTY keyboard interface shall support USB keyboards.

3.2.7. Ethernet Interface shall be through an external IEEE 802.3, 100Base-T compatible, 10/100 Mbps RJ45 connection.

3.2.8. Instrument shall be accessible through a standard PC browser using standard ethernet interface. Use of any special software application for access instrument is prohibited. Use of serial converters or similar means to obtain ethernet connectivity is prohibited.

3.2.9. The scale instrument display shall be a full color graphics display.

3.2.10. The scale instrument display shall provide minimum resolution of 800 x 480.

3.2.11. Display size shall be a minimum of 6.0 inch x 3.5 inch (7.0 inch diagonal)

3.2.12. Display shall be a TFT LCD with LED backlighting.

- 3.2.13. Display shall be an active matrix with touch screen standard.
 - 3.2.14. The display shall be capable of displaying real time IP camera feed on the scale instrument weigh screen.
 - 3.2.15. Still images can be captured and stored as part of the completed transaction record.
 - 3.2.16. Still images shall be available for printing on transaction ticket.
 - 3.2.17. The scale instrument shall display graphic image of vehicle on weigh screen when scale platform is loaded. Image shall be full color graphic image, line drawing or outline drawing of a vehicle are not acceptable. Vehicle type and color shall be selectable from a library of available images residing on the instrument.
 - 3.2.18. The scale instrument shall include one external VGA Interface to provide connectivity to external VGA monitors.
 - 3.2.19. The scale instrument load cell interfaces shall include support for Fairbanks Scales Intalogix Technology or Town approved equal (digital interface for analog load cell communication) or standard analog load cell interfaces. Use of proprietary load cells to obtain a digital interface is not acceptable.
 - 3.2.20. The scale instrument shall be capable of interfacing to serial or USB printers for the purpose of producing tickets or reports.
 - 3.2.21. Instrument shall be manufactured in the United States.
 - 3.2.22. The Instrument shall interact with existing printer.
- 3.3 SCALE INSTRUMENT FUNCTIONS. The scale instrument shall be a self-contained, operating unit providing a digital weight instrument driven by appropriate conditioning and control circuitry. The scale instrument shall provide the capability to directly print a certified weight ticket.
- 3.3.1 The scale instrument shall feature a programmable Display rate with settings from 0.1 to 10 seconds in 0.1 second intervals.
 - 3.3.2 The scale instrument shall feature programmable Zero button settings from 0 to 100% Zero capability. The Zero button shall also have the capability to be completely disabled. Zero settings must also allow for a

programmable Zero band threshold to be established based on weight, to facilitate a single print per weighment.

- 3.3.3.** The scale instrument shall include a blind counter to track scale activity when platform is loaded, but no transaction is processed.
- 3.3.4.** The instrument shall have the ability to automatically control traffic lights based on threshold weight settings, selectable time delays and transaction status.
- 3.3.5.** The scale instrument shall have the ability to control combination remote display and traffic light devices through a single 20 mA interface.
- 3.3.6.** The instrument shall have the ability to manually control traffic lights by touching the red/green traffic light icon on the instrument touch screen display.
- 3.3.7.** The scale instrument shall have the ability to automatically assign an ID to a new In bound transaction.
- 3.3.8.** The scale instrument shall have the ability to store 500,000 individual tare weights. Each stored Tare will include the Tare ID, unit of measure, date stored and vehicle description.
- 3.3.9.** The scale instrument shall have the ability to store 250,000 individual Product or Material records. Each stored Product will include the Product ID, unit of measure, net weight running total, Product description and two programmable conversion factors.
- 3.3.10.** The scale instrument shall have the ability to display the stored Product list during the transaction by pressing a single key.
- 3.3.11.** The scale instrument shall display the description of the selected Product on screen when processing a transaction.
- 3.3.12.** The scale instrument shall have the ability to create Product Groups to associate and limit specific Products with specific Customer records.
- 3.3.13.** The scale instrument shall have the ability to store 250,000 individual Customer records. Each stored Customer will include the Customer ID, unit of measure, net weight running total, four lines of text for description, address, etc.
- 3.3.14.** The scale instrument shall have the ability to display the stored Customer list during the transaction by pressing a single key.

- 3.3.15.** The scale instrument shall display the four lines of description for the selected Customer on screen when processing a transaction.
- 3.3.16.** The scale instrument shall have the ability to store 1,000,000 (one million) completed transactions or a minimum of 10,000 with two (2) images per transaction
- 3.3.17.** The scale instrument shall have the ability to display the Open/Inbound transaction list during the Outbound transaction by pressing a single key.
- 3.3.18.** The scale instrument shall have the ability to create ten (10) additional transaction based Operator prompts for capturing additional information during the transaction process. Data captured shall be available for printing on tickets and included in exported transaction data.
- 3.3.19.** Transaction data can be printed or exported.
- 3.3.20.** The scale instrument shall produce the following reports:
 - 3.3.20.1. Completed Transactions by date range
 - 3.3.20.2. Incomplete Transactions by date range
 - 3.3.20.3. Transactions Sorted by Product ID, by date range
 - 3.3.20.4. Transactions Sorted by Product ID, by date range
 - 3.3.20.5. Summary by Product
 - 3.3.20.6. Summary by Customer
 - 3.3.20.7. Voided Transactions
 - 3.3.20.8. Scale activity
 - 3.3.20.9. List of stored Tares
 - 3.3.20.10. List of stored Products
 - 3.3.20.11. List of Product groups
 - 3.3.20.12. List of Stored Customers
 - 3.3.20.13. List of Calibration report
- 3.3.21.** The scale instrument shall have the ability to export the following data:
 - 3.3.21.1. Completed Transactions by date range
 - 3.3.21.2. Incomplete Transactions by date range
 - 3.3.21.3. Transactions Sorted by Product ID, by date range
 - 3.3.21.4. Transactions Sorted by Customer ID, by date range
 - 3.3.21.5. Summary by Product
 - 3.3.21.6. Summary by Customer
 - 3.3.21.7. Voided Transactions
 - 3.3.21.8. Scale activity
 - 3.3.21.9. List of stored Tares

- 3.3.21.10. List of stored Products
- 3.3.21.11. List of Product groups
- 3.3.21.12. List of List of Stored Customers
- 3.3.21.13. List of Calibration report

3.3.22. Data shall be exportable in the following formats:

- 3.3.22.1. PDF
- 3.3.22.2. HTML
- 3.3.22.3. CSV

3.3.23. The scale instrument shall provide the means to turn data headers turned on and off in exported CVS data.

3.3.24. Data shall be accessible through a standard PC browser.

3.3.25. The instrument shall support the means to email exported transaction data.

3.3.26. The scale instrument shall support the means to automatically email a completed ticket once a transaction is completed.

3.3.27. The scale instrument shall have the ability to manually email a specific transaction, by ticket number.

3.3.28. The scale instrument shall have the means to capture up to two (2) static images from IP cameras. Images are to be stored by ticket number.

3.3.29. Stored images shall be viewable by ticket number or by date range. Individual images can be emailed or copied to a USB jump drive.

3.3.30. The scale instrument shall have the means to self-diagnose and email the following conditions at a minimum:

- 3.3.30.1. Calibration Change
- 3.3.30.2. Float Switch Condition = ON
- 3.3.30.3. Load Cell Ghosted
- 3.3.30.4. Load Cell Failure
- 3.3.30.5. Routine Maintenance Required
- 3.3.30.6. Remote Access Enabled
- 3.3.30.7. Time and Date change
- 3.3.30.8. Scale Behind Zero
- 3.3.30.9. Blind Counter Increment
- 3.3.30.10. Instrument Configuration Change
- 3.3.30.11. Unauthorized Access Attempted
- 3.3.30.12. Sectional Error

- 3.3.30.13 Cell Motion Error
- 3.3.30.14. Zero Shift
- 3.3.30.15. Scale Capacity Exceeded

- 3.3.31. The scale instrument shall have the ability to drive up to eight (8) 1000 load cells at a distance of 1,800 feet.
- 3.3.32. The scale instrument shall visually ‘flag’ identified problem load cell(s) in diagnostic screen until flag is manually cleared to identify intermittent problems.
- 3.3.33. The scale instrument shall provide the means to view all load cells for a single platform at the same time to allow for proper scale system analysis. Individual viewing of cells is not acceptable.
- 3.3.34. The scale system shall have the ability to be 100% calibrated from the instrument. No calibration adjustments or trimming shall be allowed at the scale platform.
- 3.3.35. The scale instrument shall have the means to calibrate the scale using the mV output of the connected load cells.
- 3.3.36. The scale instrument shall have the ability to electronically ‘ghost’ a failed load cell when equipped with the digital interface for load cell communication.
- 3.3.37. The scale instrument shall support remote troubleshooting by means of a standard PC browser. Use of any special software application to access the instrument is prohibited
- 3.3.38. The scale instrument shall have the means to provide continuous weight data. Weight data shall be provided serially or through the ethernet port.
- 3.3.39. The scale instrument shall feature the ability to backup to internal flash memory card or USB jump drive.
- 3.3.40. The scale instrument shall feature the ability to be backed up remotely using a standard PC browser. Use of any special software application to backup instrument is unacceptable.

4. SCALE DATA MANAGEMENT SOFTWARE. The scale data management software application shall be a self-contained, operating application providing the capability to directly print a certified weight ticket and report on stored transactions. Two (2) seats of Software shall be included and installed on customer supplied Windows XP compatible computers. The Town of Glastonbury is responsible for providing LAN.

The Town of Glastonbury will provide laser printers to run reports generated by the specified software.

- 4.1.01** The scale data management software application shall obtain weight data serially from a NTEP approved scale instrument via a hardware serial port or a virtual serial port on board the scale instrument.
- 4.1.02** The scale data management software application shall feature the ability to process Inbound/Outbound weighments with or without the use of stored Tare weights.
- 4.1.03** The scale data management software application shall feature the ability to process simple Gross-Tare-Net weighments.
- 4.1.04** The scale data management software application shall simultaneously display Gross, Tare and Net weights on the Weigh Screen when processing transactions.

The scale data management software application shall feature the ability to share data with up to eight (8) other seats of Interact Inside running on a common LAN through mapping to a common shared Interact database.

The scale data management software application shall feature one (1) stored Tare table for storing Truck Tare weights. This feature shall be upgradeable to a maximum of three (3) stored Tare tables with programmable legends. Stored Tare Weights shall have a programmable expiration date.

- 4.1.05** The scale data management software application shall feature the ability to store Customer Accounts and Hauler Accounts limited in number only by hard disk capacity.
- 4.1.06** The scale data management software application shall feature the ability to store and associate Trucks with Customer Accounts.
- 4.1.07** The scale data management software application shall feature the ability to store Product (or Material) descriptions and unit price for use in processing transactions.
- 4.1.08** The scale data management software application shall have the ability to be upgraded to include up to two (2) more category tables.
- 4.1.09** The scale data management software application shall feature the ability to assign a specific default Product to a specific Customer Account or group of Customer Accounts.

- 4.1.10** The scale data management software application shall have the ability to be upgraded to include Job or Order tracking.
- 4.1.11** The scale data management software application shall have the ability when upgraded to provide Job quoting and translated sold quotes into Jobs.
- 4.1.12** The scale data management software application shall have the ability to be upgraded to include a rate table.
- 4.1.13** The scale data management software application shall have the ability to be upgraded to include conversion factors based off Net weight result of completed transactions.
- 4.1.14** The scale data management software application shall feature the ability to display the running total for current Truck and Product selected at Weigh Screen.
- 4.1.15** The scale data management software application shall feature the ability to set maximum 'global' application Gross and Net weights.
- 4.1.16** The scale data management software application shall feature the ability to set maximum Gross weights and Tare weights by Truck ID.
- 4.1.17** The scale data management software application shall feature 23 text fields with programmable legends accessible from the weigh screen for the purpose of adding additional information to transactions.
- 4.1.18** The scale data management software application shall feature completely formattable text on ticket formats by means of a text editor.
- 4.1.19** The scale data management software application shall feature the ability to assign a specific default ticket format to a specific Customer Account or group of Customer Accounts. This functionality can be overridden during the weighing process if required.
- 4.1.20** The scale data management software application shall feature the ability to complete a transaction without printing a ticket.
- 4.1.21** The scale data management software application shall feature the ability to assign a specific text message to print on each ticket printed.
- 4.1.22** The scale data management software application shall feature the ability to assign a specific text message to print unique to a specific Customer or Hauler Account ticket.

- 4.1.23** The scale data management software application shall feature the ability to generate reports from a minimum of nine (9) preconfigured reports with a minimum of twelve (12) sorting and grouping options per report. Custom reports and completely configurable reports shall be optional.
- 4.1.24** The scale data management software application shall feature the ability to backup and restore all application configuration settings.
- 4.1.25** The scale data management software application shall feature on board Help file complete with screen illustrations, index and search functions.
- 4.1.26** The scale data management software application shall require a User Login ID to access application.
- 4.1.27** The scale data management software application shall feature four (4) levels of password protection assigned to established Login IDs.
- 4.1.28** A software module for capturing drive signature for ticket printing, displaying and storing in the transaction record shall be optional.
- 4.1.29** A software module for capturing up to two (2) images using ethernet cameras for ticket printing, displaying and storing in the transaction record shall be optional.
- 4.1.30** The software package shall include a minimum four (4) hours of phone support toll free calls during normal working hours Monday – Friday 7AM - 3:30PM EST.

5.0 PRINTER

5.1.01 The providing scale partner shall include one 295 series ticket printer and interface cable. This printer prints two part tickets for the customer and shall serve as a backup if the Network goes down. Printer shall work on 110 Volt AC power.

6.0 REMOTE DISPLAYS

6.1.01 Two Pole mounted Remote Display with integrated traffic light and manual switch box. The providing scale vendor will provide a Remote display with integrated red/green traffic light as one unit for one way traffic viewing. The purpose of this display is for the driver to see the scale is at zero before driving onto the platform, to acknowledge their weight while on the platform, and to be signaled on or off the scale via a manual switch located on the specified indicator controlled by the scale operator located in the “attendant shelter”. The remote display shall be mounted onto a 10 foot x 4.5 inch (O.D.) brushed aluminum pole with base, anchor bolts, and pole cap with

respective conduits for AC power, Switch, and weight interface cable shall be provided by the scale vendor.

6.1.02 Remote display features:

Remote display shall have the minimum features.

- Bright red, high-intensity light emitting diode (LED) with 5.0 inch characters.
- Large 5 inch Diameter green DOT/ Red X.
- NEMA 3 rated enclosure for outdoor use.
- Auto intensity sensor that automatically adjusts weight display brightness for existing lighting conditions
- Gross and Net legends (GR-NT).
- LB and KG legends.
- Wireless RS232.
- Programmable learning interface.
- Time and date capability (standard).
- Temperature module.

6.1.03 Remote Display Specifications:

Display type	High-intensity, light emitting diode (LED)
Digit color/size	Bright red, 5.0 inch
Traffic light color/size	5 inch diameter green DOT/Red X
LED life expectancy	More than 11 years
Time/Date functions	Standard
Power	117 Volt AC +/- 15% 50/60 Hz, 100 mA (required at 1605T RF)
Storage Temperature	0° F to 150° F
Interface to RF modem	RS232
Enclosure material	Painted steel, black, powder coat
Enclosure rating	NEMA 3
Viewing distance	Up to 300 feet
RF Range	Indoors - Up to 300 feet; Outdoors - Up to 1000 feet
Mounting options	Pole or wall mount (see accessories below)
Humidity	0% to 95% non-condensing
Shipping weight	39 pounds

Scoreboard Display shall be domestically manufactured. Display must include LED traffic light integrated into design. Integrated traffic light shall be controlled by Specified indicator.

6.1.04 AC power

AC Power (20 amp service) at instrument location for switch and remote display/traffic light provided by Owner.

7. EXECUTION

7.1 Installation. The installer shall configure the scale system as indicated on the manufacturers certified drawings. All concrete flat work finishing shall be performed utilizing high-quality techniques conforming to American Concrete Institute standards as set forth in ACI CP-10 and shall be supervised by an ACI certified concrete flatwork technician. Anchor bolts shall be set as required by the scale manufacturer's drawings.

7.2 Manufacturer's Field Services. Where scheduled in the equipment schedule section, an experienced, competent, and authorized representative of the manufacturer shall provide field services for equipment furnished under this section. Field services shall meet the requirements of Manufacturer's Field Services in the quality control section.

7.3 Field Testing and Acceptance. An authorized manufacturer's representative shall provide the required scale certification for capacity and accuracy to the Engineer as required by the applicable state department of weights and measures and any other applicable state or county agency. Scale will be certified as legal for trade weighing by the State of Connecticut after install and calibration by Installer.

7.4 Scale off-loading and Installation. The serving scale installation company shall off load and set scale in prepared foundation with minimum 40 ton crane.

7.5 Personnel Training. An experienced, competent, and authorized representative of the manufacturer shall train the Owner's personnel in operating, maintaining, and repairing the equipment specified in this section. The training provided shall meet the requirements of Personnel Training Services in the quality control section. The number of training sessions and duration of each session shall be as scheduled in the equipment schedule section.

8. WARRANTY

The warranty on the scales load cells including damage that may occur from lightning shall be 25 years. The weighbridge shall include a five (5) year warranty. The Instrumentation and printer shall be warranted for one year. Bidder shall attach warranty information to the bid response.

9. MAINTENANCE AGREEMENT

A maintenance agreement will be required from the awarded scale contractor. The agreement shall commence after final acceptance by the Town including calibration with heavy capacity test unit, paper work for legal for trade operation in the state of Connecticut, and adjustments as needed. Annual cost of the maintenance agreement shall be identified and attached to the bid proposal (cost of agreement shall not be part of the basis of award).

10. DELIVERY/INSTALLATION

Delivery shall be no longer than 6 weeks upon receipt of order from the Town. Upon delivery, the scale foundation shall be constructed and ready to accept the new scale weighbridge and load cells. The scale shall be installed and operational in two (2) days. The bidder's submission shall include the freight amount FOB from point of origin to Glastonbury, Connecticut. Bidder shall indicate whether they can deliver and perform the installation as required per the specifications herein.

INSURANCE

The Bidder shall, at its own expense and cost, obtain and keep in force during the entire duration of the Project or Work the following insurance coverage covering the Bidder and all of its agents, employees and sub-contractors and other providers of services and shall name the **Town of Glastonbury and its employees and agents as an Additional Insured** on a primary and non-contributory basis to the Bidders Commercial General Liability and Automobile Liability policies. All policies shall contain a waiver of subrogation. **These requirements shall be clearly stated in the remarks section on the Bidder's Certificate of Insurance.** Insurance shall be written with insurance carriers approved in the State of Connecticut and with a minimum Best's Rating of A-VIII. In addition, all carriers are subject to approval by the Town. Minimum Limits and requirements are stated below:

- 1) Worker's Compensation Insurance:
 - Statutory Coverage
 - Employer's Liability
 - \$500,000 each accident/\$500,000 disease-policy limit/\$500,000 disease each employee
 - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents.

- 2) Commercial General Liability:
 - Including Premises & Operations, Products and Completed Operations, Personal and Advertising Injury, Contractual Liability and Independent Contractors.
 - Limits of Liability for Bodily Injury and Property Damage
Each Occurrence \$1,000,000
Aggregate \$2,000,000 (The Aggregate Limit shall apply separately to each job.)
 - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents.

- 3) Automobile Insurance:
 - Including all owned, hired, borrowed and non-owned vehicles
 - Evidence a Combined Single Limit of Liability for Bodily Injury and Property Damage: Per Accident \$1,000,000
 - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents.

The Bidder shall direct its Insurer to provide a Certificate of Insurance to the Town before any work is performed. The Contractor shall be responsible to notify the Town 60 days in advance with written notice of cancellation or non-renewal. The Certificate shall evidence all required coverage including the Additional Insured on the General Liability and Auto Liability policies. The Bidder shall provide the Town copies of any such insurance policies upon request.

INDEMNIFICATION

To the fullest extent permitted by law, the Bidder shall indemnify and hold harmless the Town of Glastonbury and its consultants, agents, and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, attorneys and other professionals and court and arbitration costs) to the extent arising out of or resulting from the performance of the Bidder's work, provided that such claim, damage, loss or expense is caused in whole or in part by any negligent act or omission by the Bidder, or breach of its obligations herein or by any person or organization directly or indirectly employed or engaged by the Bidder to perform or furnish either of the services, or anyone for whose acts the Bidder may be liable.



TOWN OF GLASTONBURY * 2155 MAIN STREET * GLASTONBURY * CT

BID / PROPOSAL NO: GL-2018-23 DATE DUE: 06-27-18

DATE ADVERTISED: 06-14-18 TIME DUE: 11:00 AM

NAME OF PROJECT: VEHICLE WEIGHING SCALE

In compliance with this Invitation to Bid, the Bidder hereby proposes to provide goods and/or services as per this solicitation in strict accordance with the Bid Documents, within the time set forth therein, and at the prices submitted with their bid response.

It is the responsibility of the Bidder to clearly mark the outside of the bid envelope with the Bid Number, Date and Time of Bid Opening, and it also **THE RESPONSIBILITY OF THE BIDDER TO CHECK THE TOWN'S WEBSITE BEFORE SUBMITTING BID FOR ADDENDA POSTED PRIOR TO BID OPENING.**

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA AS REQUIRED:

Addendum #1 _____ (Initial/Date) Addendum #2 _____ (Initial/Date) Addendum #3 _____ (Initial/Date)

OTHER ITEMS REQUIRED WITH SUBMISSION OF BID PROPOSAL:

The following bid checklist describes items required for inclusion with the above-referenced bid proposal package. It is provided for the convenience of the bidders and, therefore, should not be assumed to be a complete list.

- _____ 1. Bid Bond as per Section 10 on page IB-1 (10% of total bid amount).
- _____ 2. Disclosure of Past and Pending Mediation, Arbitration, and Litigation cases against the Bidder or its Principals as per Section 17 on page IB-3.
- _____ 3. Included detailed schedule as per Section 1.1 on page DS-1.
- _____ 4. Included detailed drawings and specifications as per Section 1.1.1 on page DS-1.
- _____ 5. Included at least four references as per Section 1.1.1 on page DS-1.
- _____ 6. Included warranty information as per Section 8 on page DS-16.
- _____ 7. Included delivery/installation schedules as per Section 10 on page DS-17.
- _____ 8. Checked Town web site for Addenda and acknowledged Addenda on page BP-1.
- _____ 9. Acknowledgement of Code of Ethics and Non-Collusion Affidavit on page BP-2.
- _____ 10. Clearly marked envelope with Bid Number, Date, Time of opening, Bidder's Company Name and address.

Bidder Name: _____

TOTAL LUMP SUM BID AMOUNT

Furnish and install a vehicle weighing scale as specified
in the specifications as described herein.

\$ _____
(Numeric Amount)

(Written Bid Amount)

Manufacturer: _____ **Delivery:** _____

Maintenance Agreement: Indicate cost for an option of a yearly maintenance agreement (with two inspections per year) for five years effective as per the bid specifications:

Year 1: \$ _____

Year 2: \$ _____

Year 3: \$ _____

Year 4: \$ _____

Year 5: \$ _____

NON-COLLUSION AFFIDAVIT:

By submission of this bid, the Bidder certifies, and in the case of a joint bid each party thereto certifies as to their own organization that this bid has been arrived at independently without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor.

CODE OF ETHICS:

I / We have reviewed a copy of the Town of Glastonbury's Code of Ethics and agree to submit a Consultant Acknowledgement Form if I / We are selected. Yes _____ No _____ *

*Bidder is advised that effective August 1, 2003, the Town of Glastonbury cannot consider any bid or proposal where the bidder has not agreed to the above statement.

Print Name, Title of Individual

Doing Business as (Trade Name)

Signature of Individual

Street Address

Date

City, State, Zip Code

E:mail Address

Telephone Number / Fax Number

(Seal – If bid is by a Corporation)

Attest

Bidder Name: _____