SPECIFICATIONS ONE (1) NEW (2023) 12.35 CU.YD. DUMP BODY WITH WING AND ONE (1) TRIP EDGE PLOW

GENERAL:

It is the intent of this specification to provide the Town of New Windsor with one (1) new (2023) 12.35 cu.yd. dump body with wing and one (1) trip edge plow. The units to be furnished and installed on a new 2023 International Ten (10) wheel cab and chassis provided by the Town. In addition, all manufacturer standard equipment and accessories, whether or not specified herein, unless specifically modified or deleted by the specifications, shall be furnished. All components, equipment and accessories hereinafter specified shall be fabricated, constructed, manufactured or assembled and installed in accordance with the requirements of the severity of service to which such vehicles are normally subjected.

Each bid will be submitted with a guarantee(s)/warranty(ies) for the equipment and installation provided clearly defining the terms and conditions of the warranty(ies).

All proposed truck equipment must meet or exceed all of the following minimum specifications before consideration for award. Any deviation from the specification shall be provided in typed form clearly shown on the form in the right-hand column provided. All bids shall include catalog information for the dump bodies and plow assemblies with wings, clearly identifying the model to be provided and the specifications proposed for the equipment.

PROVISION FOR CAB ROOF-MOUNTED LAMP/BEACON:

Instrument panel-mounted switch and electrical wiring tucked beneath the headliner for a body upfitter to connect a bodymounted warning or emergency lamp. 30-amp nominal rating (included with (VYU) Snow Plow Prep Package.)

LIGHTS:

All DOT required clearance lights and reflectors shall be installed on the body.

PLOW LIGHTS:

The unit shall be equipped with a set of plow lights installed on the top cross member of the custom truck attachment.

ROOF STROBE:

There shall be an amber strobe light installed on the chassis.

BODY STROBES:

There should be amber oval shaped strobe lights installed in the rear corner posts of the dump body.

WORK LIGHTS:

There shall be two (2) wing lights and one (1) spinner light installed.

CONTROLS:

Air controls for all plow/wing body functions, joy stick type for the plow and wing on a pedestal and a floor mount stand for body hoist and side tilt with a safety lockout for hoist.

DUMP BODY:

TENCO model TCB – 14-T-CL-C-CL-LF 14' (12.35 yards) Combination dump body/material spreader body with ½ cab-shield, ladder, air tailgate, double acting 34 ton front telescopic hoist, top grate screens, bolt on asphalt pan and three (3) chutes in tailgate, THE FRONT/SIDES/ENDS/AND FLOOR SHALL BE HARDOX 450, 205,000PSI Yield Strength Steel, Stainless Steel Rear Corner Posts.

PIONEER model EDD1500 ELECTRIC DIRECT DRIVE load cover with wind deflector, asphalt tarp.

The body shall be a traditional dump as well as a material spreader in one.

It shall be 14' X 88" inside dimensions.

The side shall have a capacity of 12.35 yards water level

The entire body with shall be manufactured of 3/16" steel.

The floor, sides, tailgate, bulkhead shall be of 3/16" 205,000 P.S.I. (HARDOX – 450) steel with radius sides.

Rear Corner Posts SHALL BE 201 STAINLESS STEEL There shall be a cab shield mounted integrally with the headboard.

The top rails of the body shall be a minimum 4" X 3" structural tubing.

There shall be provisions for side boards at the top of the top rails.

The curb side rear post shall be tied to the front post with a structural tubing located near the top of the posts.

There shall be a ladder mounted roadside at the front of the body.	
The tailgate shall be a 6 panel design and shall be double-acting.	
The tailgate shall be level with the floor when horizontal.	
There shall be an air tailgate locking system.	
The air tailgate controls shall be installed within reach of the operator.	
Spreader chains shall be provided.	
There shall be a body up safety prop for servicing the body.	
There shall be mud flaps both front and rear of the wheels.	
The front flaps shall have anti-sail brackets.	
The understructure shall have a 10" I-beam 25.4#/ft. long-member or greater (NO CHANNEL).	
There shall be a conveyor assembly road side.	
This conveyor shall move the material forward to the spinner frame-mounted behind the driver's door.	
The material conveyor shall run roadside of the body and shall be 18" wide.	
The chain shall be pintle type and shall have 3/8" x 1 1/4" bar flights.	
The chain shall have a break-formed cover and not be exposed to the load material.	
The drive shall have bronze gears and shall have a 25:1 ratio.	
The conveyor gearbox shall be superior aluminum.	
This aluminum drive box shall be driven with a hydraulic motor of ample size.	
The torque capacity shall be 13,740 psi/inch at 100 RPMs.	
The body shall be constructed to allow the gearbox, bearings, drive shaft and sprockets to be removed in one piece.	
Material shall flow forward through an adjustable door with hand crank jack for adjustment.	

Door opening shall be a minimum of 182 cu./ins.

There shall be a built-in 2 section hinged cover plate for the conveyor.	
The chain adjustment shall be accomplished with grease cylinders, not screw type adjuster.	
The grease cylinders shall be nitrated and have grease fitting to 600 PSI.	
There shall be a trap door at the rear of the body to allow the entire rear chain idler assembly to be removable.	
There shall be a truck frame-mounted spinner with the hydraulic motor mounted at the top of the drive shaft and a polyurethane spinner disc to spread the material.	
The spinner shall have hydraulic quick couplers for ease of removal.	
Extended grease bit for side tilt hinge of side tilt body.	
The material shall be fed to the spinner with a plastic tenelene or equal material chute.	
There shall be five (5) 3" structural channel cross members at the cylinder attachment points and a series of two (2) 15/16" X 3/16" break formed cross members making a honeycomb design for floor supports.	
The long members shall be tied at the top with 3" X 3" structural tubing and at the bottom with break-formed plate for added strength.	
The floor and curbside of the body shall be designed to lift and move material to the roadside conveyor.	
The floor and hinge shall be bolted to the body long members, welded hinges are not acceptable.	
The three hinge blocks shall be held by 4" X 5/8" grade 5 bolts.	
The floor hinge shall be a minimum of one 1-3/4" hard chrome induction rod with cast steel blocks.	
These hinges shall be bolted directly to the 10" I-beam long members.	
The entire floor and curb side shall be removable with bolts.	
There shall be grease fittings on each block.	
The remaining stationary outside long member shall be 3" X 4" structural tubing.	

There shall be two (2) 3-1/2" X 28" double acting cylinders to lift the floor.
The combined lifting capacity of the floor cylinders shall be 19 tons at
These cylinders shall be factory-plumbed to the rear of the body with
For safety and strength, these cylinders shall attach to the outside of the
The cylinder rods shall be manufactured using the HYDRAUNITE method
The cylinders shall have a full two (2) year warranty from its original
25-ton Pintle hook on ship channel, gland hands, 7 wire trailer plug
The floor in the full-lift position shall be at approximately 40 degrees.
The body-lift hoist shall be telescopic three-stage.
The barrels of each stage shall be manufactured using HYDRAUNITE
It shall have a capacity of 34 tons double-acting.
It shall be saddle mounted to the truck frame.
At the rear of the body there shall be a 12" bolt-on spreader plate.
There shall be stop, turn, tail, back-ups and amber L.E.D. strobe lights
LOAD COVER:
There shall be a Pioneer Model EDD150D Electric Load Cover with
ASPHALT PAN:
There shall be a 12" wide bolt on asphalt pan.

PAINTING:

The body shall be painted to match chassis cab, under side and 6" up sides of the body shall be painted with 26P. The plow/wing attachments shall be painted gloss black. The plow frame shall be painted black with with an orange polymer moldboard and the wind moldboard shall be painted orange. The underbody and chassis shall have Ziebart Coating applied.

INSTALLATION:

TOP GRADE SCREENS: BY TENCO MACHINERY, LTD.:

The body shall be fitted with four (4) section top grate screens supported by a heavy-duty tubular center brace. The design of the screen system shall allow the tailgate to be operated with the top grate screens installed on the body.

PLOW WITH WING:

PLOW FRONT HITCH: VIKING CUSTOM "POWER TILT" HITCH: The plow frame shall be designed so as to keep the plow attachment points as close to the front of the truck as feasible. The custom truck attachment shall consist of minimum 1/2" side plates, reinforced and bolted as far back on the truck frame as possible. The vertical risers of the "A" frame shall be from minimum 4" by 3" by ½" A-36 structural steel angle material. The horizontal member to which the base of the lift cylinder pins shall be a minimum of 4" by 4" by $\frac{1}{2}$ " angle boxed in with $\frac{1}{4}$ " by 5" bar. The hitch shall provide a minimum of three (3) plow drive heights on thirty (30) $\frac{1}{2}$ " push lug centers. The bottom of the hitch behind the connecting lugs shall be adequately braced and reinforced to transmit plowing forces to the truck frame. The hitch shall be designed to accommodate a front wing post of either patrol or full leveling design. The front hitch shall be of "power tilt" design with the plow lift cylinder being capable of being locked out for tilting. Hitch must be capable of full power tilt to allow for routine engine maintenance.

POWER REVERSIBLE TRIP-EDGE PLOW: TENCO MODEL TCP-11-T-42-E2-HA2

The two (2) plows shall be 11' long by 40" high and shall clear a path of 9'-0" at 30°. The top of the moldboard shall have a 2-1/2" x 1'1/2" tubular reinforcement running the full length parallel to the ground. Welded to the top reinforcement shall be a minimum of seven (7) 3/8" flame cut plate ribs. The bottom of the ribs shall be welded to a 6" x 4" x 5/8" boxed hinge and spring support. The hinge shall be from minimum 4" x 4" x $\frac{3}{4}$ " angle supported by a minimum of six (6) plate

hinges from flame cut 5/8" plate. The trip section shall be utilized as either a one (1) piece unit or three (3) piece section by removal of 1" section bolts. The trip-edge shall be reset after hitting an obstruction by six (6) vertically mounted coil springs installed behind the trip edge. The springs shall be of compression type from minimum 7/8" spring wire with a minimum of (8) coils each. There shall be two (2) spring retainer holes to allow spring tension adjustment. The backer angle for the cutting edge shall be punched to accept either 8" of 3" - 3" - 12" (AASHO) punched blades. There shall be two (2) moldboard shoes and two (2) curb shoes, one (1) on each side of the plow moldboard. The curb shoes shall be a minimum 65K Rockwell hardness. The moldboard skin material shall be a minimum of 3/8" polymer material. The A-frame sector ______ shall be fabricated from 4" x 4" x 3/8" structural tubing and shall pin to the main frame support through a 1" pin. The main frame support shall be 4" x'4" x 3/8" structural tubing. The A-frame reversing table shall be fabricated from flame cut $\frac{1}{2}$ " steel plate and shall be a minimum of 9" wide. Welded to the truck side of the A-frame shall be a $\frac{3}{4}$ x 4" x 36" plate which forms the pivot point for the evener plate. The evener plate shall also be fabricated from $\frac{3}{4}$ " x 4" plate. The evener plate shall have stops to restrict the plow from listing more than 25°. There shall be 1" thick ears for attachment to the plow to the chassis located on the evener plate assembly. These ears shall be 31" centers.

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OIL RESERVOIR: FRAME MOUNT OIL RESERVOIR:

The shall a thirty (30) gallons stainless steel frame mounted oil reservoir with Hydraulic valve enclosure. The reservoir shall be equipped with a return line filter assembly, oil level sight gauge magnetic drain plug and vented 2" fill cap with integral strainer.

RESERVOIR Thirty (30) gallon Stainless Steel frame mount oil reservoir, and valve enclosure, with return line filter assembly, oil level sight gauge and six spool valve. REXROTH Valve Assemblies provided for: PLOW LIFT, PLOW ANGLE, DUMP BODY HOIST, BODY FLOOR TILT, FRONT OF WING AND REAR OF WING.

Stainless steel hydraulic lines with hydraulic hose at flex points, stainless steel quick connects for plow.

REXROTH CS 430 Spreader control pipe to combination dump body material spreader.

DEL: Air Controls for all Plow/Wing Body functions, JOY STICK Type for plow and wing on a pedestal, and floor mounted controls For the dump body with a hoist lockout.

Set of metal frame plow lights installed with labeled switch.

Amber strobe light installed on cab roof.

Amber, oval shaped, strobe lights installed in rear corner post of
Back-up alarm as specified.
VIKING patrol wing front mast assembly with full-trip "D" (FH20).
VIKING patrol wing rear support with differential relief. (OVER FRAME.)
VIKING model 144W-HD wing with pair of HD full-trip arms.
TENCO Model TCP-11-T-42-E2-HA2 power reverse trip-edge plow
Unit to be complete with proper installation/hydraulic fluids.
Paint: Body to be painted to match color of chassis cab, all frame
Two (2) Tailgates for the body. One (1) with (3) three tailgate
POLY FENDERS OVER REAR AXLES.
ALL ELECTRIC Wires for body lights-ECT, shall be HEAT SHRUNK.
TENCO: 160 gal pre-wet liquid tank with a Cirus electric pre-wet pump.
Work Lights (2) Wing and (1) Spinner.
Stop-Turn-Tail-Back Up LED lights rear corner posts of body
Fold Out Ladder front left side of body.
Z-Bart Chassis and underside of body.
Two (2) tailgates for the body with three (3) tailgate chutes and
SOLID & PRE-WET CONTROLLER:
Spreader controller must be capable of 3 proportional PWM

RF Immunity Conducted Immunity	ISO 11452-2 400-100 MHz, 80% mod. 1kHz ISO 7637-2 (2004) System Pulse1, 2a, 2b, 3b, 4								
RF Emissions	CISPR 25:2002-08 30 MHz-1GHz acc. To 72/245/EC EN 55025								
Vibration Operating Temperature Storage Temperature	ISO 16750-3 10-2000 Hz at 58m/s; IEC 60068-2 72 40G for 11ms -3085°C -4085°C								
UV Resistance Media Resistance Protection Category	DIN 75220 ISO 16750-5 IEC 60529, IP63								
The controller shall have 5 modes of operation for solid material									
The controller shall have the following modes of operation for liquid									
They should be closed loop manual, groundspeed, triggered manual, 12 volt triggered manual, fixed and anti-ice.									
The spreader control shall have a 5.5" organic light emitting diode OLED) display which shows Auger/Conveyor application rates, Spinner setpoint, Liquid application rate and Ground Speed.									
The controller shall have 9 Material and liquids.									
The controller shall have 4 different material options for solid and liquid.									
The controller shall have a USB key or password-prot Operating parameters and stick.									
On-screen display of storm and season totals.									
Audible error indication with text explanation Current compensated and protected outputs Solenoid and cable failure detection Firmware upgradeable via USB To ensure complete system compatibility, spreader controller, hydraulic valve and hydraulic pump shall be from a single manufacturer. Items that									
valve and hydraulic pump shall be from a single manufacturer. Items that									

are manufactured by one entity and "branded" with another manufacturer's name shall not be accepted as being from a single manufacturer
Compu-Spread CS 530 Solids & Liquid Controller
HYDRAULIC VALVES: Valve Layout
Valve Must be stackable up to 9 sections Valve is to be cast iron design Must be capable of working pressures of 6000 psi Use of spreader blocks or hybrids are unacceptable Inlet must be capable of open center or closed center hydraulic systems
Pump will be 80cc Wet spline pump
There will be a low oil sensor in the tank to protect the pump from
There will be low oil control console that will allow the pump to be
The electric pump shall be mounted near the liquid reservoir, in a NEMA
The enclosure shall be mounted in a location that will not hinder normal
A 5-PSI check valve shall be installed as close to the nozzle as possible
Two nozzles shall be located inside the conveyor discharge box just
Plumbing components shall be constructed of heavy-duty glass reinforcedpolypropylene or brass, except check valves.
The hose for the suction line to the pump shall be ¾" EPDM. All pressure

BID SHEET

Gentlemen:

The undersigned, as bidder, declares that he has carefully examined the specifications attached hereto and that he proposes and agrees, if this proposal is accepted, to contract with the Town of New Windsor for furnishing the following:

ONE (1) new (2023) – 12.35 CU.YD. DUMP BODY WITH WING AND ONE (1) TRIP EDGE PLOW INSTALLED.

		\$	
WRITING	NO CENTS	FIGURES	

TIME OF DELIVERY AND INSTALLATION:

The bidder shall state a guaranteed delivery and installation date _____ Days.

Date: _____

Address: _____

Telephone: _____

Authorized Signature

Date

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Company

NON-COLLUSION FORM

Pursuant to Section 103-d of the General Municipal Law of the State of New York; the undersigned in connection with the annexed bid of the Town of New Windsor does hereby affirm under penalty of perjury as follows:

- A. This bid or proposal has been independently arrived at without collusion with any other bidder or with any competitor or potential competitor;
- B. This bid or proposal has not been knowingly disclosed and will not be knowingly disclosed, prior to the opening of bids or proposal for this project, to any other bidder, competitor or potential competitor.
- C. No attempt has been or will be made to induce any other person, partnership, or corporation to submit or not to submit a bid or proposal:
- D. The person signing this bid or proposal certifies that he/she has fully informed themselves regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as well as the person signing in its behalf.
- E. The attached hereto (if a corporate bidder) is a certified copy of resolution authorizing the execution of this certificate by the signator of this bid or proposal in behalf of the corporate bidder. Resolved that ______, be authorized to sign and submit the bid or proposal of this corporation for the following project:

ONE (1) NEW (2023) – 12.35 CU.YD. DUMP BODY WITH WING & TRIP EDGE PLOW

And to include in such bid or proposal the certificate as to non-collusion required by Section 103–d of the General Municipal Law as the act and deed of such corporation, and for any inaccuracies or misstatements in such certificate this corporate bidder shall be liable under the penalties of perjury.

	The	foregoing	is	а	true	and	correct	сору	of	the	resolution	adopted	by
						C	orporatio	n at a n	neeti	ing of	its Board of	Directors h	neld
on the		da	ay of	: 				, 2_					

Secretary

Bidder

Date: _____

THIS FORM MUST BE COMPLETED BY BIDDER

ADVERTISEMENT FOR BIDS

THE TOWN OF NEW WINDSOR, ORANGE COUNTY, NEW YORK, WILL RECEIVE SEALED BIDS FOR: ONE (1) – 12.35 CU.YD. DUMP BODY WITH WING AND TRIP EDGE PLOW

At The Office of The Town Clerk, 555 Union Avenue, Town of New Windsor, Orange County, New York, Until <u>10:00 A.M. Eastern Time, on February 21, 2023</u> at which time all bids received will be publicly opened and read aloud.

Information For Bidders, form of Bid And Specifications will be <u>available on February 3, 2023</u> and may be examined at, and copies thereof obtained, at said Town Clerk's Office.

STATEMENT OF NON-COLLUSION: Bidders on Contracts are required to execute a non-collusive bidding affidavit pursuant to Section 103(d) of the General Municipal Law of the State of New York.

IRAN DIVESTMENT ACT: By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of section 165-a of the State Finance Law.

EQUAL OPPORTUNITY: Town of New Windsor is an Equal Opportunity Employer. Bidders are required to comply with the provisions of Section 291-299 of the Executive Law of the State of New York.

The Town of New Windsor encourages Disadvantaged Business Enterprises; Minority and Women Owned Businesses; Service Disable Veteran Owned Businesses to apply.

The Town of New Windsor hereby notifies all bidders that it will affirmatively ensure that in regard to any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the ground of race, gender, color or national origin in consideration of an award.

THE TOWN BOARD OF THE TOWN OF NEW WINDSOR RESERVES THE RIGHT TO WAIVE ANY INFORMALITIES IN, OR TO REJECT ANY OR ALL OF THE BIDS RECEIVED.

BIDS FOR SERVICES SHALL NOT INCLUDE EXCISE, SALES, OR COMPENSATING USE TAXES.

Subject to the provisions of Article 28, Part III of the New York State Tax Law, the Owner is exempt from payment of sales and compensating use taxes of the State of New York and cities and counties on all materials supplied to the Owner pursuant to this contract.

NO BIDDER MAY WITHDRAW HIS BID WITHIN 60 DAYS AFTER ACTUAL DATE OF BID OPENING.

BY ORDER OF THE TOWN BOARD TOWN OF NEW WINDSOR KELLY ALLEGRA, TOWN CLERK TOWN OF NEW WINDSOR