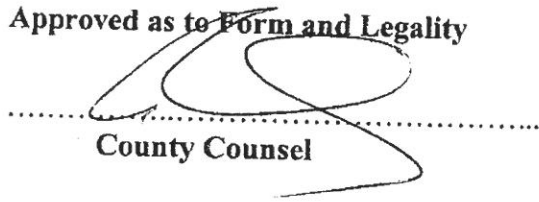


CONTRACT AWARD	
CK09MERCER2020-12 ONE (1) 2020 OR NEWER INTERNATIONAL MODEL #MV607 SBA-4X2 OR EQUIVALENT WITH GRAPPLE SAW (INSTALLED) FOR USE BY SHADE TREE	
BID OPENING DATE : MARCH 6, 2020	
CONTRACT TERM: MARCH 31, 2020 THROUGH MARCH 30, 2021	
NAME OF BIDDER	W.E. TIMMERMAN CO., INC.
ADDRESS	3554 ROUTE 22 WEST
CITY, STATE, ZIP	WHITEHOUSE, NJ 08888
CONTACT	EDWARD K. BIXBY
TELEPHONE	908 534 4126
FAX	908 534 2320
E-MAIL	MAIL@TIMMERMANEQUIPMENT.COM
UNIT COST FOR ONE (1) 2020 OR NEWER INTERNATIONAL MODEL #MV607 SBA-4X2 OR EQUIVALENT WITH GRAPPLE SAW	\$ 391,850.00
MANUFACTURER	ALTEC
MODEL	HEARTLAND 225
YEAR	2020
DELIVERY DATE	210 DAYS ARO
EXCEPTIONS	NONE
FATAL FLAW	NO

Approved as to Form and Legality

Date



 County Counsel

April 23, 2020

AWARD OF BID RECEIVED MARCH 6, 2020 TO W.E. TIMMERMAN CO., INC., FOR ONE (1) 2020 OR NEWER INTERNATIONAL MODEL #MV607 SBA-4X2 OR EQUIVALENT WITH GRAPPLE SAW (INSTALLED) FOR USE BY the SHADE TREE DIVISION AND THE MERCER COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM. PERIOD: MARCH 31, 2020 THROUGH MARCH 30, 2021. TOTAL AMOUNT NOT TO EXCEED \$391,850.00 (CK09MERCER2020-12)

WHEREAS, the Mercer County Purchasing Department has advertised for bids for one (1) 2020 or newer International Model #MV607 SBA-4X2 or equivalent with Grapple Saw (Installed) or equivalent for use by the Shade Tree Division and the Mercer County Cooperative Contract Purchasing System for a period of one (1) year, as authorized by Resolution No. 2018-89, adopted February 8, 2018; and,

WHEREAS, two (2) sealed bids was received on March 6, 2020 in connection with the aforementioned procurement; and,

WHEREAS, the bidder hereinafter designated is the lowest qualified bidder; and,

.....
 Clerk to the Board

RECORD OF VOTE													
FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.	FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.
Cannon	X				✓		Melker	X					
Cimino	X						Walter	X					
Colavita	X						Koontz	X					
Frisby	X					✓							

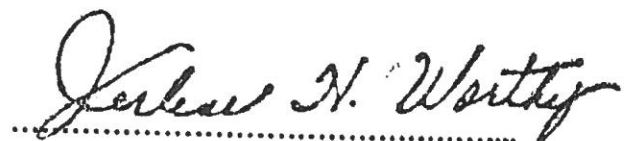
X—Indicates Vote Abs.—Absent N.V.—Not Voting
 Res.—Resolution Moved Sec.—Resolution Seconded

WHEREAS, the bid received From W.E. Timmerman Co., Inc., 3554 Route 22 West, Whitehouse, NJ 08888 shall be awarded for one (1) 2020 or newer International Model #MV607 SBA-4X2 or equivalent with Grapple Saw (Installed) for a period of March 31, 2020 through March 30, 2021, in an amount not to exceed \$391,850.00; and,

WHEREAS, the Chief Financial Officer of Mercer County has certified in writing the availability of funds for the purposes set forth in this Resolution, said certification is on file with the Clerk to the Board, now, therefore,

BE IT RESOLVED, that the County Executive and Clerk to the Board be and are hereby authorized to execute said contracts when presented in a form approved by County Counsel; and,

BE IT FURTHER RESOLVED, that the Clerk to the Board shall forward a copy of this Resolution to the Mercer County Department of Transportation and Infrastructure, Highway Division, and the Mercer County Purchasing Department for further distribution.


.....
Clerk to the Board

**SPECIFICATIONS TO PROVIDE
ONE (1) 2020 OR NEWER INTERNATIONAL MODEL #MV607 SBA-4X2
OR EQUIVALENT WITH GRAPPLE SAW (INSTALLED)
FOR USE BY SHADE TREE**

INTENT

The County of Mercer requests bids for One (1) 2020 or Newer International Model #MV607 SBA-4X2 or Equivalent with Grapple Saw (Installed) Or Equivalent for use by Shade Tree. The County requests the bid price to be held for one year. Bids shall be for new, current year production equipment. Demonstrator, used or lessor model equipment will not be accepted. All references to brand name shall be interpreted as brand name or equivalent. All questions shall be directed to the department of Purchasing; please email all questions to smceachern@mercercounty.org.

EXCEPTIONS

If bidding an equivalent manufacturer, provide the manufacturer's published literature and list all exceptions with descriptions of each exception.

A certificate of origin will be provided with the equipment upon delivery. Any questions regarding the bid must be directed to purchasing.

Upon delivery, vendors must provide set-up, operating training by an authorized manufacturer's representative and two sets of training manuals. All equipment shall include standard safety features.

As this is a cooperative bid, the awarded vendor(s) may provide the equipment herein bid upon to local governmental contracting units located within the County of Mercer without substitution or deviation from specifications, size, features, quality, price or availability as herein set forth. It is understood that orders will be placed directly by the contracting units, subject to the terms of the contract to be awarded by the County of Mercer, and that no additional service or delivery charges will be allowed. References to brand names shall be interpreted as brand or equivalent.

All equipment shall be delivered F.O.B destination with delivery charge included, within 60 days from receipt of purchase order. All equipment shall be delivered as stated above with to the **Mercer County Highway Division at 300 Scotch Road, West Trenton, NJ 08628.**

WARRANTY

The awarded vendor shall provide the warranty as stated in the specifications.

AWARDED CONTRACTOR SHALL PROVIDE OPERATING TRAINING BY AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE UPON DELIVERY OF EQUIPMENT. VENDORS MUST SPECIFY THE MANUFACTURER'S CUT-OFF DATE.

VENDOR WILL HOLD PRICING FIRM FOR ONE YEAR

SPECIFICATIONS
ONE (1) 2020 OR NEWER INTERNATIONAL MODEL #MV607 SBA-4X2
OR EQUIVALENT WITH GRAPPLE SAW (INSTALLED)
FOR USE BY SHADE TREE

INTENT: It is the intent of this specification to describe and govern the purchase and installation of an International Chassis 2020 Model Year or Newer. (Or Equivalent)

Together with other associated equipment as described herein. The manufacturer, make, exact model and literature shall be submitted with bidder's proposal. The following specifications describe our minimum requirements for the quality and type of equipment to be furnished. Bidder may offer equipment which exceeds these requirements. Bids which fail to meet these requirements will be considered non-responsive to our needs.

The unit shall be new and of the latest design and be in current production at the time of the submission of the bid. The chassis manufacturer, whose equipment or products are bid, shall have a factory authorized service warranty and parts distribution facility located within approximately a 25 mile radius of the using agency. All chassis bids must be offered by an authorized truck dealer for the purposes for warranty, parts and service. All subcontractors installing equipment for components must also be an authorized stocking distributor of that equipment for the purposes of warranty, parts and service.

CHASSIS CAB SPECIFICATIONS: International Model #MV607 SBA-4 x 2 (or an approved equivalent) 2-Man Cab. Chassis Factory built with a one piece roof.

All standard and optional equipment listed shall be Original Equipment Manufacturer's (OEM) items, when available.

DIMENSIONS:

Wheel Base	187"
Cab to Axle	120 "
GVWR	35000 lbs. (minimum)
Bumper to Back of Cab	107" Inches
Shoulder Room	71 Inches
Hip Room	70 Inches
Door Width	37 Inches
Cab Height, Interior	56 Inches (minimum)
Cab Width	82 Inches
Overall Width	80 Inches

Note: Door to open a minimum of 60 degrees.

Comply: Yes_____ No_____

Exceptions:_____

COMPATABILITY CLAUSE:

The successful vendor shall be responsible to ensure compatibility with body components.

Comply: Yes_____ No_____

Exceptions:_____

ENGINE AND RELATED EQUIPMENT:

- Diesel-Six (6) Cylinder 300HP @2000 RPM, fully electronic, in-line turbo-charged, air to air intercooler, wet sleeve, electronically controlled unit injectors.
- Federal Emissions: Cummins L9, EPA, OBD, and GHG certified for calendar year 2020
- 300 Peak HP (minimum), 860 lb/ft torque @ 1300 RPM (minimum)
- Emission compliant: low NOx idle engine, complies with Calif. Clean air Regulations, includes-“Certified Clean Idle” decal located on door
- Engine Control: Remote mounted provision for; includes wiring for body Builder installation of PTO controls; switch control for L9 engines
- Block heater, 1250 Watt (minimum), with socket receptacle located below driver’s door.
- Electronic road speed governor.
- Throttle Hand Control: Engine speed control for PTO, Electronic, Mobile, variable speed, range 2-20 MPH, mounted on steering column
- Heavy-Duty Cooling. 1045 square inch radiator and 373 square inch charge air cooler
- Fan Drive (Borg-Warner) viscous type, screw on
- Air cleaner, single element with service protection element
- Air cleaner restriction gage: Mounted on air cleaner
- Fuel/Water Separator to be provided, Racor 400 or Equivalent 12 VDC Electric Heater, includes pre-heater, with Primer Pump Includes Water-in-Fuel sensor
- Fuel / Water Separator location: Mounted inboard of 5 gallon DEF tank
- Antifreeze Red (extended life type), -40 degrees F protection, with “low coolant” level warning light and alarm.

Comply: Yes_____ No_____

Exceptions:_____

ELECTRICAL SYSTEM:

- Computer controlled wiring system with self-diagnostics and data link connector in the cab for vehicle programming.
- Wiring shall be color-coded and continuously numbered
- Jump Start Terminal-Remote mounted with clear access.
- Batteries-(3) 12-Volt, 2850CCA (minimum) International (or approved equivalent). NOTE: Battery mounting shall not interfere with the installation of hydraulic and body components.
- The battery box shall be mounted right side undercab, below exhaust, provide clean CA
- Alternator-160 amp (minimum) Delco-Remy 28SI (or approved equivalent). Pad mounted W/Remote sense
- Lights- Cab Marker (5) LED Type
 - Headlamp (2) Halogen
 - Daytime Running (2)
 - Directional Marker (2) Front Corner of Hood (AmberRed Front/Rear)
 - Tail with integral stop, turn, backup and license plate (2)
 - Truck Lite Super 44 w/LED

NOTE: The vehicle's exterior lighting system is to be L.E.D. Type with exception of the headlights. Must including headlamp, tail marker lights. Headlights must automatically activate whenever the wiper switch is engaged. In addition a pre trip inspection switch must be dash mounted. This switch will cycle all exterior lights to aid in driver pre-trip inspection.

- Engine control, remote mounted. Wiring for body builder installation of PTO controls
- Flasher-40 amp, rated no load, solid state flasher with self protection and self-diagnostics.
- Battery disconnect switch: 300 amp, cab mounted, locks w/padlock
- Circuit Protectors-manual reset, SAE Type III, with trip indicators. Body Builder Electrical Connector-connection plug is to be located at the rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed and ground.
- Back-up alarm chassis supplied 102 DBA
- Starting motor Delco Remy 38 MT less thermal over crank

- Cigar lighter w/ash tray
- Indicator Low Coolant level w/audible alarm
- Alarm Parking brake-electric horn sounds when vehicle park brake is "NOT" set with ignition off and any door opened
- Test Exterior Lights-pre trip inspection. Will cycle all exterior lights except back-up
- Headlights On Wiper-headlights will automatically turn on if windshield wipers are turned on

Comply: Yes_____ No_____

Exceptions:_____

EXHAUST SYSTEM:

- Single horizontal after-treatment device; frame mounted right side of under cab; short horizontal pipe
- Exhaust brake for Cummins L9 engine

FRAME:

- Main Frame-10.375 inches x 3.705 inches x 0.438 inches, 120,000 PSI. 21.05 SM---2,526,000 RBM
- Front Tow Hooks-Two (2)
- Front Bumper-full width aerodynamic-heavy duty steel
- License plate holder

NOTE: CHASSIS SHALL HAVE CLEAN FRAME RAILS FROM BACK OF CAB TO SPRING HANGER.

Comply: Yes_____ No_____

Exceptions:_____

FUEL TANK:

- 50 gallon capacity, non polished aluminum mounted on the left side under the cab door.
- DEF Tank 5 gallon, frame mounted outside left rail, under cab

Comply: Yes_____ No_____

Exceptions:_____

TRANSMISSION:

- Allison 3000 RDS wide ratio 6spd transmission with double overdrive, P.T.O provision, Oil level sensor with read-out display. Stalk shift control dash mtd. Transmission TCM located inside cab
- Automatic Neutral: Transmission shifts to neutral when parking brake is engaged and remains in neutral when parking brake is disengaged
- Transmission Oil synthetic lube (or approved equivalent).
- Dipstick relocated to right side of transmission
- Transmission Oil Temperature Gage-dash mounted
- Transmission Oil Sensor, readout at shift lever
- Neutral at stop—shifts to neutral when service brake is depressed PTO Control---dash control with switch & electric/air solenoid

Comply: Yes_____ No_____

Exceptions:_____

FRONT AXLE AND RELATED EQUIPMENT

- 13,000 lbs. Meritor MFS-13-143A (or approved equivalent).
- Front Axle shall be set back configuration.
- Shock Absorbers.
- Spring Pins, rubber bushed, maintenance free.
- Drag Link and Tie Rods, greaseable.
- Power Steering-Gear Driven. Sheppard HD-94

Comply: Yes_____ No_____

Exceptions:_____

REAR AXLE AND RELATED EQUIPMENT

- 23,000 lbs. capacity- Meritor MS-23-161 (or approved equivalent) Driver controlled differential
- Ratio 6.14-Vehicle shall be geared to obtain a speed of approximately 65 MPH
- Magnetic Oil Drain Plug.

Comply: Yes_____ No_____

Exceptions: _____

SUSPENSION-FRONT:

- 13,000 lbs. capacity-Taper-leaf type front Springs.
- Auxillary front springs-rubber

SUSPENSION-REAR:

- 23500 lbs. capacity, single vari-rate 23,500 lbs. capacity, with 4500 lb. multileaf auxillary rubber springs (or approved equivalent).
- Rear shock absorbers (2)

Comply: Yes _____ No _____

Exceptions: _____

DRIVE SHAFT:

- Heavy-Duty---Dana-Spicer SPL170

Comply: Yes _____ No _____

Exceptions: _____

BRAKE SYSTEM AND RELATED EQUIPMENT:

- Anti-Lock Brake System-Four channel control.Bendix system
- Air Brakes-Front, Cam Type 16.5 Inches x 5 Inches with 20" long-stroke cambers.
- Rear, Cam Type 16.5 Inches x 7 Inches. 30/30 chambers long stroke Brake Chambers Must meet asphalt spreader clearance
- Compressor-18.7 CFM, Gear Driven, with air supply piped from air cleaner.
- Automatic Slack Adjusters-Front & Rear.
- Brake Lines-All Colored Coded Nylon.

- Manual Drain valve (Berg). with pull chains.
- Dual Air Pressure Gauges.
- Low Air Pressure Warning Light and Alarm.
- Air Activated, Spring-Loaded Parking Brake w/Dash-Mounted Control.
- Air Dryer, Heated -Bendix AD-IP (or approved equivalent).
- Dual Air Reservoirs.

- Air tank location: One mounted under each frame rail, front of rear suspension parallel to frame rails
- Dust Shields-front and rear

NOTE: All brake lining material shall be non-asbestos. The successful vendor shall be required to furnish certification from the manufacturer stating that all brake linings are non-asbestos.

Comply: Yes_____ No_____

Exceptions:_____

CAB AND RELATED EQUIPMENT:

- Conventional Style Cab. Cab to be galvanized steel, with tilting three (3) piece construction for ease of replacement. hood and stationary grille. Fenders are to be replace-able, independently of hood. Cab Air Suspension with shock absorbers. Cab must include integral exterior sun-visor L.E.D lighted and painted cab color.
- Grille Assembly-Bright Finished. Stationary.
- Horn-Both dual electric and air horns shall be provided. Horn activation shall be located on the steering wheel for both.

NOTE: THE AIR HORN SHALL BE MOUNTED UNDER THE HOOD.

- Glass tinted with power windows and door locks.
- Body Builder Pass Through-A knockout opening shall be provided in the cab floor for the body builder.
- Mirrors-Two (2) Rectangular Heads, approximately 14 Inches x 7.5 Inches with additional integral convex mirrors mounted on a "break-away" type "C" bracket. Both the main and convex mirrors are to be heated and thermostatically controlled. An additional 6 Inches x 10 Inches "look-down" convex mirror is to be mounted on the upper rightside mirror bracket. Power & Heated
- Windows: Power (2) left & right includes power door locks
- Windshield Wipers-2 Speed electric, single motor with intermittent switch (or approved equivalent). Headlights must activate with wiper activation
- Gauges-Air pressure (2), oil pressure, voltmeter, engine coolant temperature, fuel, hour meter, tachometer, transmission oil temperature, odometer, trip hours, trip miles, ammeter.
- Warning Lights and Alarms-Low Pressure, low fuel, low oil pressure, low coolant level, high coolant temperature with an audible alarm, low battery voltage, low windshield wiper fluid.
- Grab Handles-Entry assist; located inside the cab, left and right, one additional exterior grab handle mounted left and right side (towel bar

type). Seating-Driver-National Air Suspension (or approved equivalent), vinyl high back with integral headrest, fully adjustable with air-operated lumbar support.

- Passenger-Two man, vinyl high-back w/integral headrest stationary base.
- Under seat storage compartment
- Transmission oil temp gage
- Gage DEF tank fluid level
- Heater/Defroster/Air Conditioner chassis manufacturer installed.
- Overhead Console-With dual storage pockets.
- Full Headliner and Padded Door Panels.
- Adjustable Steering Column-Tilting position type.
- Radio—AM/FM/WB/Clock Bluetooth

NOTE: CAB SHALL ALSO INCLUDE ALL MANUFACTURER'S STANDARD EQUIPMENT.

Comply: Yes_____ No_____

Exceptions:_____

TIRES AND WHEELS:

- Front-11R22.5 Tubeless Type, Radical Load, Range H (16 Ply), highway tread Continental HSR2 ECO PLUS (or approved equivalent). Disc, 8.25Inches x 22.5 Inches Painted white powder coat steel, 10 stud hub piloted, flanged nut wheels with steel hubs.
 - Full size spare mounted on rim to be included
- Rear-11 R22.5 Tubeless Type, Radical Load, Range H (16 Ply), Mud& Snow Continental HDL2 (or approved equivalent), Disc, 8.25 Inches x 22.5 Inches Powder coat white steel ,10 stud hub piloted, flanged nut wheels with steel hubs.
 - Full size spare mounted on rim to be included

Comply: Yes_____ No_____

Exceptions:_____

PAINT:

- All painting shall be done in conjunction with manufacturer's specifications. Cab shall be painted with a high quality, high solid, White base coat and clear polyurethane overcoat.

NO EXCEPTIONS: Paint shall be applied at the factory. After market refinishing will not be accepted.

- Exterior Color-Must Match current fleet colors –Green Metallic-Code 5047 Sikkens base coat clear coat, or approved equivalent Chassis Color: Wheel Color to match current fleet colors.

Comply: Yes_____ No_____

Exceptions:_____

SERVICE SUBSCRIPTION:

- Government Municipal Package: Two year limited subscription "On Command Service Information" service and parts catalog

Comply: Yes_____ No_____

Exceptions:_____

DELIVERY:

- The units shall receive **all** pre-delivery preparation at successful vendors facility, **prior** to final delivery to the county. The successful vendor shall be responsible for final deliveries to the county.
- Each truck must be delivered with a New Jersey motor vehicle new vehicle inspection sticker in place as prescribed by law. Each truck must also be delivered with a New Jersey Motor Vehicle Commission title, registration and CG plates.
- Delivery to include a 55 gallon drum of DEF fluid

Comply: Yes_____ No_____

Exceptions:_____

PARTS & SUPPLIES:

- The successful bidder shall supply a list of recommended parts and supplies which the county should stock at a Central Warehouse. The list shall be prepared for the first through eight years of operation. The list shall

include part number, quantity, description, price and possible source of supply.

Comply: Yes_____ No_____

Exceptions:_____

DEALER NETWORK:

- The successful bidder shall supply a list of authorized service facilities for heavy-duty trucks which are near the county maintenance facility.

Additional to be included:

- Body Intg. Remote Start/Stop to start and stop the vehicle engine, will start emergency pump motor, programmable time intervals
- Trailer Brakes: Truck must be equipped with electric set-up
- Trailer brake/lights, accommodation package to rear of frame: for separate trailer stop, tail, turn, marker light circuits.
- Electric brake controller-To be supplied and functioning at time of delivery

Comply: Yes_____ No_____

Exceptions:_____

WARRANTIES:

- Towing: 60 month with unlimited miles \$550 per warranty incident
- Engine & after-treatment---60 month or 150,000 miles
- Extended vehicle coverage---60 month or 150,000 miles
- Allison transmission---60 month with unlimited miles
- **Switch body circuits:** remote power module with 6 outputs & 6 inputs located behind driver seat

Comply: Yes_____ No_____

Exceptions:_____

TECHNICAL SUPPORT:

- Technical Support is to be provided by factory authorized technical representatives and is to be the original equipment Manufacturers' industry standard technical presentation in a classroom setting.
- The support provided shall be at the journeyman/equipment technician level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.
- Technical support may be requested in the following areas:
 - Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
 - Transmission – 1 day at each location
 - Electrical – 1 day at each location
 - Brakes – 1 day at each location
 - Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
 - Upfitter (dump body, sweeper, etc.) – 1 day at each location
- A technical representative(s) shall be made available for a total of 180 training/support hours (anticipated to be scheduled in six (6) hour blocks). Shorter training days will be allowed only with consent of Motor Pool. The total training hours will be required to be provided and no additional compensation will be considered. The actual time to be spent on each area will be by mutual agreement of the Motor Pool and the successful bidder.
- For the purposes of determining materials and other training costs, class size is anticipated to be comprised of six (6) to ten (10) DOT Employees.
- Actual class size will be determined by the Motor Pool at the time the classes are scheduled.
- Before the training is scheduled, Motor Pool and the contractor will agree on the scope of the training, and the type and quantity of manuals, etc. that are necessary for proper coverage.
- Technical Support for Motor Pool may be provided at the following fleet maintenance facility location as scheduled by a Motor Pool representative:
 - Mercer County, 300 Scotch Rd, Trenton, N.J. (Two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)
- Technical Support for other Departments will be held at a location within Mercer County. The requesting Department will notify the successful bidder of the location.
- Training at the successful bidder's site, rather than the designated locations, will be by mutual consent only.
- Technical support will be requested and scheduled on an as needed basis up to but not exceeding the 180 hours total during a period not to

exceed twelve (12) months from the date of placing the last unit in service.

Comply: Yes_____ No_____

Exceptions:_____

DIAGNOSTICS:

- Successful bidder may be required to supply between one (1) to three (3) complete sets of test/diagnostic/ programming equipment (i.e. laptop, software, cabling, and adapters) and special tools required to perform the full range of diagnostic and maintenance actions necessary to maintain vehicle operability. This equipment will cover the vehicle chassis, engine, transmission, brakes, hydraulics, and all additional equipment (if applicable).
- All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software.
- Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid.
- All software installations and activations will be completed by the successful bidder at no cost to the County.
- All software updates and renewal will be provided at no cost to the County for a period of five (5) years from the acceptance of the equipment.
- All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the County for a period of five (5) years from the acceptance of the equipment.
- Training shall be provided on all items in this section at a County location.
- This equipment shall be the OEM equipment as available by the chassis manufacturer.

Comply: Yes_____ No_____

Exceptions:_____

SPECIFICATIONS FOR GRAPPLE SAW TO BE INSTALLED ON TRUCK PRIOR TO DELIVERY

It is the intent of this specification to provide for the purchase of one (1) new and unused truck mounted grapple saw for use in tree care operations. The lift shall have a maximum hook height of not less than 67 ft.

The following specification is based upon a grapple saw as manufactured by ALTEC INDUSTRIES, INC. CREEDMOOR PRODUCT LINE, mounted on an International MV607 chassis and cab. The County's Public Works Department has evaluated different types of grapple saw trucks and has determined that this product is best suited for the County's needs in safety, quality, performance, and standardization. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all grapple saw trucks bid will be compared.

In comparing proposals, consideration will not be confined to price only. The successful bidder will be one whose product is judged to best serve the interests of the County when price, product, safety, quality and delivery are considered. The County of Mercer reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements of this specification.

GENERAL GRAPPLE SAW

- Articulating crane featuring five boom sections shall be provided
- Ft. lbs rating shall be 145,800 for the six-section machine
- Six (6) section crane with capacity of 1,860 lbs. shall be @ 55.7" horizontal
- Single size Danfoss, proportionally compensated with six (6) function control bank shall be provided
- Self-supported single stage extension cylinders with sequence valves, end stroke shock absorbers, HSS (High Speed System) and regenerating valves shall be provided.
- Overload safety device to comply with the regulations with mechanical limiting device of the slewing (working angle 190°), torque limiter with Effer DMU 3000 Plus.
- Effer Stability System shall be provided
- Scanreco radio remote control system with additional battery and charger shall be provided
- Continuous rotation by rack & pinion, with bronze bushings, and centralized greasing shall be provided
- Centralized greasing for the slewing group shall be provided
- Two (2) additional control valves, and hose reels to the end of the boom tip with Multifaster coupler shall be provided

- Exclusive ETL (Effer twin links) double link rod system for improved lifting curve shall be provided
- Second boom with 15° ExtraLift System shall be provided
- Hydraulic out and hydraulic down crane base stabilizers with swing ball joint adaptors shall be at a 259" spread
- 42-gallon oil reservoir mounted in the crane space shall be provided
- Holding valves directly flanged to cylinder barrels shall be provided
- 11.5-ton load hook shall be provided
- Oil cooler mounted in the crane space shall be provided
- Shall be painted Effer yellow with two stage paint
- Shall be designed according to UNI EN 12999 HC1 S1 regulations

Comply: Yes_____ No_____

Exceptions:_____

UNIT & HYDRAULIC ACCESSORIES

- Subbase Weldment shall be provided.
- HVI-22 Hydraulic Oil (Standard) shall be provided
- Hot shift PTO for automatic transmission shall be provided.
- Standard PTO/Machine Functionality with Winch Recovery shall be provided. - Machine functions aren't enabled until parking brake is set. - PTO is able to be activated before parking (holding) brake is engaged. - Once parking (holding) brake is set, machine functions are enabled. - Once parking (holding) brake is disengaged, machine functions are disabled but PTO is still available
- Gierkink GMT 035 Felling Grapple shall be provided
- Head must be fully hydraulically controlled. With all functions controlled by the factory remote supplied with the Effer crane.
- Grapple Rotator for use with GMT 035 Grapple shall be provided.
- Grapple Attachment for EC225-6S FG Knuckleboom Crane shall be provided. Banana arm attaches geirkink head to crane. Has orbital link to dissipate potential shock loading from the head to the boom. Attaches with (1) quick pin connection
- Maximum grapple load shall be 3,307 lbs
- Maximum cutting capacity shall be 13.9 inches
- Unit shall include tool kit, 6 spare bars and 12 spare chains

Comply: Yes_____ No_____

Exceptions:_____

BODY

- 128 Inch Ox Bodies Flatbed, suitable for installing on any 4x2 or 4x4 chassis with an approximate clear CA dimension of 145-150 inches, built to the following specifications
- Flatbed shall be finished with black paint color
- All steel flatbed, shall be 128 inches long x 96 inches wide
- Floor shall be made from 7-gauge diamond plate
- An open top log style dump body shall be provided

Comply: Yes_____ No_____

Exceptions:_____

BODY AND CHASSIS ACCESSORIES

- Cabguard shall be mounted on front winch
- Rear window guard shall be 62" L x 20" H
- ICC (underride protection) bumper shall be installed at rear
- T-100 Style Pintle Hitch (30,000 LB MGTW with 6,000 LB MVL) shall be provided
- Set Of Safety Chain Loops, Fixed Mounting (Forestry Applications), shall be provided
- Flatbed Access Ladder From Ground With Grab Handles shall be installed
- Custom Platform Access Step Or Ladder, Ladder to access cab guard, shall be installed curbside of front of flatbed
- No platform rest
- Plastic Outrigger Pad shall be black with handle and 24" x 24" x 2"
- Outrigger Pad Holder, 25" L x 25" W x 3" H, Fits 24.5" x 24.5" x 2" and Smaller Pads, Bolt-On, Bottom Washout Holes, 3/4" Lip Retainer, Two (2) installed under flatbed curbside, three (3) installed under flatbed streetside.
- Chain retainers for outrigger pad holders shall be provided
- Two (2) Mud Flaps with logo shall be provided
- Wheel Chock Holders (2), shall be Rubber, 9.75" L x 7.75" W x 5.00" H, with 4" L Metal Hairpin Style Handle
- Two (2) Wheel Chock Holders shall be Installed Under Flatbed or Dump Body
- Post Style Cone Holder (Holds up to four 15"x15" large cones) shall be provided
- Fold Over, Post Style Cone Holder (Holds up to four 15"x15" large cones), shall be installed on curbside of winch bumper
- Water Cask Bracket Only, For 3 or 5 Gallon (Wire Type) shall be provide.

- Horizontal Storage Box Mounted Underbody, One Drop Down Door, Chain Door Holders, Keyed Latch, shall be 44"L X 22"W X 15"H
- Triangular reflector kit shall be provided
- 10 LB Fire Extinguisher With Heavy Duty Bracket, shall be provided
- Vinyl manual pouch for storage of all operator and parts manuals shall be provided
- 10 Turf Protection Mats, shall be 8' L x 3' W.
- Turf Protection Mat Holder, shall be 95.74" L x 18.25" W x 36.19" H with Chain Retainers on Both Sides. (holds 10 mats)

Comply: Yes_____ No_____

Exceptions:_____

ELECTRICAL ACCESSORIES

- Lights and reflectors shall be in accordance with FMVSS #108 lighting package. (Complete LED, including LED reverse lights), Security Mounted
- 4-Corner Strobe Lighting, Amber LED, Two (2) Round Lights in Front Corners of Cab Guard and Two (2) Round Lights at Rear, shall be provided. Security mounted
- Dual Tone Back-Up With Outrigger Motion Alarm shall be provided.
- PTO Hour Meter, Digital, with 10,000 Hour Display shall be provided
- 6-Way Trailer Receptacle (Pin Type) shall be Installed At Rear
- Electric Trailer Brake Controller (Tekonsha Voyager #9030) shall be provided
- Electrical panel & switches shall be provided
- Power Distribution Module Is A Compact Self-Contained Electronic System That Provides A Standardized Interface with The Chassis Electrical System. (Includes Operator's Manual)
- Rear view vision camera shall be provided

Comply: Yes_____ No_____

Exceptions:_____

CHASSIS SPECIFICATIONS

- The chassis shall be a current model International MV607 (or equal) having a GVWR of 35,000 lbs. or equal as per the attached specifications

Comply: Yes_____ No_____

Exceptions: _____

TEST AND CERTIFICATION

- Each of the following tests are to be completed and documented and submitted at the time of delivery
- Stability Test 1: 1-1/2 times rated load on level ground
- Stability test 2: 1-1/3 times rated load on a 5o slope
- State the name and address of the facility where the stability tests required by the bid specification were performed.

Facility: _____

Address:) _____

- Electrical Test 1: Upper boom @ 100 KVAC for three minutes
- Electrical Test 2: Lower boom @ 50 KVAC for five minutes
- Electrical Test 3: Combined upper and lower boom @ 100 KVAC for three minutes
- Electrical Test 4: Basket liner @ 50 KVAC for one minute
- State the name and address of the facility where the electrical test required by this specification were performed

Facility: _____

Address:) _____

- Holding Valve Test 1: Upper boom both directions.
- Holding Valve Test 2: Lower boom both directions.
- Holding Valve Test 3: Rotation both directions
- Speed Test 1: Upper boom.
- Speed Test 2: Lower boom.
- Speed Test 3: Rotation

Comply: Yes _____ No _____

Exceptions: _____

PAINT

- Color of cab shall be the County of Mercer's color of "Yellow".
- Front and Rear Frame or Under Body Mounted Components shall be Painted Black
- Non-Skid Coating shall be applied to all walking surfaces
- English Safety And Instructional Decals shall be provided
- Vehicle height placard shall be installed in cab

- Stability test unit shall be in accordance with ANSI requirements
- Delivery of completed unit shall be provided
- Final assembly shall be provided
- Stock unit shall be provided

Comply: Yes____ No____

Exceptions:_____

TRAINING

- A qualified technician shall provide complete training to County personnel at the county garage. Training shall include safety, operation, maintenance and service

Comply: Yes____ No____

Exceptions:_____

WARRANTY

- Manufacturer's warranty on device and components shall be one for (3) year on parts, labor and travel time
- Manufacturer's warranty with stipulations requiring expensive annual inspections by a distributor will be rejected without further review
- Warranty compliance is mandatory. Bids taking any exception to the full terms of the warranty will be rejected without further review
- Annual PM Inspection to be included once annually for 3 years

Comply: Yes____ No____

Exceptions:_____
