



## Ocean County Board of Commissioners

OFFICE OF THE  
OCEAN COUNTY COMMISSIONERS

Director John P. Kelly  
Deputy Director Frank Sadeghi  
Commissioner Robert S. Arace  
Commissioner Jennifer Bacchione  
Commissioner Virginia E. Haines

101 Hooper Avenue  
Toms River, New Jersey  
08754-2191  
(732)929-2005  
(732)505-1918

### Board Meeting Agenda

Date: August 6, 2025 - 4:00 PM  
Location: Administration Building  
Room 119  
101 Hooper Avenue  
Toms River, NJ 08754

Agenda: Awarding a Contract for the furnishing and delivery of MOTOR VEHICLE-SOIL COMPACTOR to Foley, Incorporated, the lowest qualified bidder. (B2025-118)

<b>Official Resolution#</b>	<b>2025001106</b>
Meeting Date	08/06/2025
Introduced Date	08/06/2025
Adopted Date	08/06/2025
Agenda Item	k-7
CAF #	
Purchase Req. #	B2025-118
Result	Adopted

COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Kelly	✓				✓		
Sadeghi	✓				✓		
Arace	✓		✓		✓		
Bacchione	✓			✓	✓		
Haines		✓					

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

*Michelle I. Gunther*

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Clerk Of The Board

RESOLUTION

August 6, 2025

WHEREAS, on July 8, 2025, pursuant to legal advertisements therefor, sealed bids were received for the MOTOR VEHICLE - SOIL COMPACTOR for the County of Ocean; and

WHEREAS, at the advertised time, responses were received from the following bidders:

<u>Name and Address of Bidder</u>	<u>Name and Address of Bidder</u>
Foley, Incorporated 855 Centennial Avenue Piscataway, NJ 08854 (732) 885-5555	Best Line Leasing, Inc. 2582 Gateway Drive State College, PA 16801 (814) 237-5156

; and

WHEREAS, after the receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the lowest qualified bid, according to specifications, namely that of, FOLEY, INCORPORATED be accepted.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract accepting the bid for the Motor Vehicle: Soil Compactor, for the County of Ocean, for the contract period shall be one (1) year from date of award, or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract, pursuant to N.J.S.A 40A:11-15.

A. FOLEY, INCORPORATED for five (5) items, to wit:

ITEM NOS. 1, 1A, 1B, 1C and 1D.

For a Total Lump Sum Award (Item Nos 1 - 1D) of \$244,859.00.

This vendor has extended this contract to County Cooperative Contract System Participants, Identifier No. CK-02-OC.

2. Payments for the materials and services to be acquired by these contracts shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

3. Funds for the materials or services described herein shall be made available through operating and expense (O&E) accounts, trust accounts, grant accounts, or capital

accounts maintained by, but not limited to, the following departments: Solid Waste Management.

4. Payments for the materials to be acquired by these contracts shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

5. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2025-118.

BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, Department of Purchasing, Department of Finance, Solid Waste Management and the successful bidder.

## MOTOR VEHICLE – SOIL COMPACTOR

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL****COMPLIANCE**  
**YES**                      **NO****BASIC SPECIFICATIONS**

The self-propelled vibratory soil compactor shall be specifically designed to compact cohesive, semi-cohesive and non-cohesive materials.

                    

Engine shall provide a rated ISO 14396 gross power of 74.4 kW (99.8 hp).

                    

Operating weight of the machine equipped with ROPS/FOPS canopy shall be at least 7,179 kg (15,826 lb).

                    

Overall length shall be at least 5.1 m (16' 7").

                    

Overall width shall be at least 1.8 m (5' 9").

                    

Height to ROPS/FOPS canopy shall be at least 2.8 m (9' 2").

                    

Curb clearance shall be at least 369mm ( 14' 5")

                    

Ground clearance shall be at least 391mm (15' 4").

                    

**ENGINE**

Engine shall provide a rated ISO 14396 engine power of at least 74.4 kw (99.8 hp)

                    

Engine shall meet US EPA Tier 4 Final and EU Stage IV engine emission standards.

                    

Engine shall be equipped with a muffler, dual-element, dry-type air cleaner with a visual restriction indicator and a port designed for collecting engine oil and coolant samples.

                    

Engine compartment shall be enclosed and have two gas charged struts to raise the hood for unrestricted access.

                    

Electrical system shall be 12 volts with a 120-Amp alternator.

                    

One maintenance free battery supplying 1000 cold cranking amps shall be standard.

                    

Wiring harness shall be protected with nylon-braided wrap with all wired numbered, color-coded and labeled with component identifiers.

                    

Cooling system shall be located at the rear of the machine.

                    

Cooling System shall be at least 15.3L ( 4.0 Gallons)

                    

Engine shall provide a travel speed of at least 6.8 mph

                    

**POWERTRAIN/TRANSMISSION**

The self-propelled compactor shall be hydrostatically driven by two variable displacement pumps, one to provide flow for the rear axle motor and the other to drive the drum drive motor.

                    

Both drive motors shall have dual-displacement for the creation of two speed ranges with electronic over hydraulic control changeable from the operators console.

                    

The hydrostatic drive shall provide infinitely variable speed in forward and reverse through a single lever control.

                    

Ground speed ranges shall be 0 – 11 km/h (0 – 6.8 mph) in high range.

                    

Two speed Hydrostatic Transmission

MOTOR VEHICLE – SOIL COMPACTOR

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**STEERING**

The self-propelled compactor shall have fully articulated steering with horizontal oscillation provided at the steer pivot point.	☒	☐
The articulation angle shall be at least 37 degrees in either direction.	☒	☐
The machine shall oscillate 15 degrees in either direction.	☒	☐
The steering shall be fully hydraulic using one double-acting steering cylinder and have a separate steering pump.	☒	☐
Inside turning radius shall not exceed 3.1 m (10' 0").	☒	☐
Outside turning radius shall not exceed 4.8 m (15' 6").	☒	☐

**BRAKES**

All brake controls shall be located at the operator's station.	☒	☐
Primary braking shall be dynamic through the hydrostatic closed-loop propel system.	☒	☐
The secondary brake shall be part of the drum drive gearbox and shall be a wet disc-type brake which shall be spring applied and hydraulically-released.	☒	☐
The secondary brake shall be activated by a switch on the operators console or loss of hydraulic pressure in the brake circuit or when the engine is shut down.	☒	☐
An interlock valve shall prevent propelling the machine when the secondary brake is engaged.	☒	☐
All braking systems shall conform to SAE practice J1472 and EN 500 and ISO 3450:2011.	☒	☐

**HYDRAULIC SYSTEM**

A hydraulic oil cooler that controls hydraulic oil temperature shall be included.	☒	☐
Hydraulic oil service interval shall be 3000 hours.	☒	☐
Hydraulic system filtration shall include one 200 mesh strainer and a single charge filter that serves both the propel circuit and the vibratory circuit.	☒	☐
Hydraulic connections shall be of an O-ring face seal design.	☒	☐

**STRUCTURE**

The frame shall be of articulated design.	☒	☐
The articulation of the frame and yoke shall be joined by two shafts, one vertical and one horizontal.	☒	☐
Each shaft shall be supported by tapered roller bearings of no less than 76 mm (3") in diameter.	☒	☐
All mounting hardware shall be grade 8 or better.	☒	☐

**AXLE**

The wheel drive axle shall be equipped with a limited slip differential.	☒	☐
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**WHEELS/TIRES**

The tires shall be at least 14.9" X 24" 6 ply flotation tread.	☒	☐
The tires shall be ballasted with approximately 140 liters (37 gal) of a 30 – 35% calcium chloride/water solution per tire.	☒	☐

## MOTOR VEHICLE – SOIL COMPACTOR

Page 3 of 7

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)****COMPLIANCE**  
**YES**                      **NO****OPERATOR'S STATION**

The operator's station shall be attached to the frame by four rubber mounts.

                    

Machine shall include Heat & Air Conditioning

                    

A floor mat shall be attached to the operator's platform.

                    

Operators station shall include a vinyl adjustable seat with 3-way adjustment, flip-up arm rests, an integrated console with a multifunction, color LCD display unit, lockable vandalism guard, and a 76 mm (3") wide retractable seat belt.

                    

Propel and vibratory system controls shall be located on the integrated console with the LCD display serving as a gauge cluster.

                    

The machine shall be equipped with a three-level warning system viewed through the LCD display to alert the operators to abnormal machine conditions and shall include alternator malfunction, start aid indicator, high combustion air temperature, low engine oil pressure, high engine coolant temperature, high hydraulic oil temperature, air filter constriction, check engine/electrical fault and action lamp.

                    

A backup alarm shall emit an audible alarm whenever the propel lever is moved into reverse.

                    

The unit shall be equipped with a Roll Over Protection Structure/Falling Object Protection (ROPS/FOPS) that meets ISO 3471-2008 and ISO 3449-2005

                    

A ROPS/FOPS cab shall be equipped with the machine

                    

Anti-vandalism protection shall be provided for the operators gauge console, all external fluid fill necks and the engine/radiator compartment cover.

                    

The same key that operates the ignition shall also operate and open all other locking devices.

                    

Operator environment must have at least one 12 volt power outlet

                    

Operator environment shall be provided with rear vision camera system with color touchscreen display

                    

**DRUM/VIBRATORY SYSTEM**

The vibratory drum shall have a compaction width of not less than 1676 mm (66") wide.

                    

The drum shall be smooth and not be less than 1221 mm (48.1") diameter and a shell thickness not less than 25 mm (1").

                    

The vibratory hydraulic system shall consist of a variable displacement hydraulic pump driving a fixed displacement hydraulic motor coupled to an in-the-drum eccentric shaft type vibrator.

                    

The eccentric shaft shall be supported by two heavy-duty, anti-friction bearings in an oil bath lubrication with an oil change interval of 3 years/3000 hours.

                    

The eccentric weight shall be sealed and have interior cavity partially filled with steel shot for the purpose of changing amplitude.

                    

The vibratory system shall be located in one pod-style housings.

                    

The pods shall have dual seals to help prevent oil contamination.

                    

The pod-style housings shall be removable.

                    

The vibratory system shall have as standard two amplitude ranges for compaction of a wide range of materials and lift thicknesses.

                    

Centrifugal force shall not exceed a maximum of 133.4 kN (29,989.7 lb).

## MOTOR VEHICLE – SOIL COMPACTOR

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**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)****COMPLIANCE**  
**YES**                      **NO****DRUM/VIBRATORY SYSTEM (Cont'd)**Centrifugal force shall have a minimum of 67 kN (15,056.3 lb).  Amplitude change shall be made from a rocker switch located on the right control console.  Frequency shall be 31.9 Hz (1915 vpm) at maximum engine rpm.  Variable frequency independent of engine rpm shall be available as an option.  An adjustable steel drum cleaning device shall be mounted on the frame structure (or yoke) and is often referred to as a scraper  Front and rear polyurethane drum scrapers shall be available as well as a rear drum steel scraper.  A two-piece padfoot shell kit shall be available.  The drum and its vibratory components shall be isolated from the machine by resilient supports that isolate vibration during normal operation.  **FEATURED EQUIPMENT**ROPS/FOPS cab shall have a cloth suspension seat with integrated console and LCD display, one access door, tinted safety glass windows, electric wipers front and rear, heater/defroster, side windows for ventilation, rear view mirrors, two front facing and two rear facing working lights, interior dome light all available. Sun visor, a roll-down sun screen and internal rear view mirrors shall also be available.  Two-piece padfoot shell kit shall bolt onto the smooth drum for compaction of cohesive and semi-cohesive soils. This shall feature a 88.9 mm (3.5") high pads and heavy duty scraper teeth and a special bumper that provides a secure area to store drum scraper plates when not in use. A choice of pad designs shall be available. Oval pads shall provide deep lift penetration. Square pads shall provide good surface sealing performance.  Steel drum scraper shall be available to be mounted at the rear of the drum.  Flexible drum scrapers shall be available for mounting at the front and rear of the drum and shall be made of polyurethane and designed to contact the drum and completely clean debris from the drum surface.  Cat Compaction Control compaction measurement system shall be available with a choice of either Compaction Meter Value (CMV, accelerometer based)  Transmission Guard that bolts on the underside of the machine shall be available.  Variable vibration frequency shall allow the operator to vary drum frequency.  Rotating beacon shall include an amber beacon and mount that can be attached to machines with a ROPS/FOPS canopy or ROPS/FOPS cab.  **SERVICEABILITY**The hydraulic oil system shall include a SOS port for the purpose of collecting hydraulic oil samples.  The engine enclosure shall pivot forward with the aid of two gas charged struts.  Drains for the cooling system, engine oil, hydraulic tank and fuel tank shall be provided.  Hydraulic oil level shall be checked with a sight gauge.

MOTOR VEHICLE – SOIL COMPACTOR

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**MINIMUM SERVICE FILL CAPACITIES**

Fuel tank shall have a lockable fill cover and shall have a minimum capacity of 140 liters (37 gallons).

                    

Minimum engine oil capacity including filter shall be 10.6 liters (2.8 gallons).

                    

The hydraulic oil reservoir shall have a minimum capacity of 26 liters (6.9 gallons) and shall be common to the propulsion and vibratory systems.

                    

**PRODUCT SUPPORT**

The machine shall be equipped with a literature compartment and include a complete Operation and Maintenance Manual and Parts Manual. A service manual which covers Systems Operation, Testing and Adjusting and Disassembly/Assembly shall also be available through the seller.

                    

**ISO CERTIFICATION**

The quality system implemented by the manufacturer shall be certified to Quality Standard ISO 16714:2008

                    

ISO certifying agency and ISO Certificate Number shall be available upon request.

                    

**OPTIONS**

**1A. Diagnostic Tools / Test Equipment**

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment

1. Successful bidder may be required to supply between one (1) to three (3) complete sets of OEM 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)

                    

2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software.

                    

3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid.

                    

4. All software installations and activations will be completed by the successful bidder at no cost to the County.

                    

5. 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.

                    

6. 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.

                    

7. Training shall be provided on all items in this section at a County location.

MOTOR VEHICLE – SOIL COMPACTOR

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**OPTIONS (Cont'd)**

**1B. Two-Way Radio Power and Wiring Requirements for New Vehicles**

For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
2. #12 AWG BLACK wire connected to chassis ground.
3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle and secured in the vicinity of the operator. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The wires shall be unterminated. The 12VDC sources shall be protected from making contact with grounded metal surfaces

                    

**1C. Installation of County Supplied Two Way Radio and Accessories**

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
2. #12 AWG BLACK wire connected to chassis ground.
3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The 12VDC sources shall be protected from making contact with grounded metal surfaces.

                    

**1D. Technical Support**

Technical Support is to be provided by factory authorized technical representatives and is to be the original equipment Manufacturer's industry standard technical presentation in a classroom setting

                    

Technical support may be requested in the following areas:

1. Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
2. Transmission – 1 day at each location
3. Electrical – 1 day at each location
4. Brakes – 1 day at each location
5. Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
6. Upfitter (dump body, sweeper, etc.) – 1 day at each location

MOTOR VEHICLE – SOIL COMPACTOR

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**OPTIONS (Cont'd)**

**1D. Technical Support (Cont'd)**

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 Vehicle Services. 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 Vehicle Services Department 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) Vehicle Services Department personnel. Actual class size will be determined by the Vehicle Services Department at the time the classes are scheduled.

                    

Before the training is scheduled, Vehicle Services 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 Vehicle Services may be provided at the following fleet maintenance facility location as scheduled by a Vehicle Services Department representative:

a. Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (Two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)

b. Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

                    

Technical Support for other Departments will be held at a location within Ocean 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.

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL**

**COMPLIANCE**  
**YES**                      **NO**

**BASIC SPECIFICATIONS**

The self-propelled vibratory soil compactor shall be specifically designed to compact cohesive, semi-cohesive and non-cohesive materials.

                    

Engine shall provide a rated ISO 14396 gross power of 74.4 kW (99.8 hp).

                    

Operating weight of the machine equipped with ROPS/FOPS canopy shall be at least 7,179 kg (15,826 lb).

                    

Overall length shall be at least 5.1 m (16' 7").

                    

Overall width shall be at least 1.8 m (5' 9").

                    

Height to ROPS/FOPS canopy shall be at least 2.8 m (9' 2").

                    

Curb clearance shall be at least 369mm ( 14' 5")

                    

Ground clearance shall be at least 391mm (15' 4").

                    

**ENGINE**

Engine shall provide a rated ISO 14396 engine power of at least 74.4 kw (99.8 hp)

                    

Engine shall meet US EPA Tier 4 Final and EU Stage IV engine emission standards.

                    

Engine shall be equipped with a muffler, dual-element, dry-type air cleaner with a visual restriction indicator and a port designed for collecting engine oil and coolant samples.

                    

Engine compartment shall be enclosed and have two gas charged struts to raise the hood for unrestricted access.

                    

Electrical system shall be 12 volts with a 120-Amp alternator.

                    

One maintenance free battery supplying 1000 cold cranking amps shall be standard.

                    

Wiring harness shall be protected with nylon-braided wrap with all wired numbered, color-coded and labeled with component identifiers.

                    

Cooling system shall be located at the rear of the machine.

                    

Cooling System shall be at least 15.3L ( 4.0 Gallons)

                    

Engine shall provide a travel speed of at least 6.8 mph

                    

**POWERTRAIN/TRANSMISSION**

The self-propelled compactor shall be hydrostatically driven by two variable displacement pumps, one to provide flow for the rear axle motor and the other to drive the drum drive motor.

                    

Both drive motors shall have dual-displacement for the creation of two speed ranges with electronic over hydraulic control changeable from the operators console.

                    

The hydrostatic drive shall provide infinitely variable speed in forward and reverse through a single lever control.

                    

Ground speed ranges shall be 0 – 11 km/h (0 – 6.8 mph) in high range.

                    

Two speed Hydrostatic Transmission

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**STEERING**

- The self-propelled compactor shall have fully articulated steering with horizontal oscillation provided at the steer pivot point.
- The articulation angle shall be at least 37 degrees in either direction.
- The machine shall oscillate 15 degrees in either direction.
- The steering shall be fully hydraulic using one double-acting steering cylinder and have a separate steering pump.
- Inside turning radius shall not exceed 3.1 m (10' 0").
- Outside turning radius shall not exceed 4.8 m (15' 6").

**BRAKES**

- All brake controls shall be located at the operator's station.
- Primary braking shall be dynamic through the hydrostatic closed-loop propel system.
- The secondary brake shall be part of the drum drive gearbox and shall be a wet disc-type brake which shall be spring applied and hydraulically-released.
- The secondary brake shall be activated by a switch on the operators console or loss of hydraulic pressure in the brake circuit or when the engine is shut down.
- An interlock valve shall prevent propelling the machine when the secondary brake is engaged.
- All braking systems shall conform to SAE practice J1472 and EN 500 and ISO 3450:2011.

**HYDRAULIC SYSTEM**

- A hydraulic oil cooler that controls hydraulic oil temperature shall be included.
- Hydraulic oil service interval shall be 3000 hours.
- Hydraulic system filtration shall include one 200 mesh strainer and a single charge filter that serves both the propel circuit and the vibratory circuit.
- Hydraulic connections shall be of an O-ring face seal design.

**STRUCTURE**

- The frame shall be of articulated design.
- The articulation of the frame and yoke shall be joined by two shafts, one vertical and one horizontal.
- Each shaft shall be supported by tapered roller bearings of no less than 76 mm (3") in diameter.
- All mounting hardware shall be grade 8 or better.

**AXLE**

- The wheel drive axle shall be equipped with a limited slip differential.

**WHEELS/TIRES**

- The tires shall be at least 14.9" X 24" 6 ply flotation tread.
- The tires shall be ballasted with approximately 140 liters (37 gal) of a 30 – 35% calcium chloride/water solution per tire.

Adopted on: August 6, 2025  
 Official Resolution#: 2025061188

MOTOR VEHICLE – SOIL COMPACTOR

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**OPERATOR'S STATION**

The operator's station shall be attached to the frame by four rubber mounts.	<input type="checkbox"/>	<input type="checkbox"/>
Machine shall include Heat & Air Conditioning	<input type="checkbox"/>	<input type="checkbox"/>
A floor mat shall be attached to the operator's platform.	<input type="checkbox"/>	<input type="checkbox"/>
Operators station shall include a vinyl adjustable seat with 3-way adjustment, flip-up arm rests, an integrated console with a multifunction, color LCD display unit, lockable vandalism guard, and a 76 mm (3") wide retractable seat belt.	<input type="checkbox"/>	<input type="checkbox"/>
Propel and vibratory system controls shall be located on the integrated console with the LCD display serving as a gauge cluster.	<input type="checkbox"/>	<input type="checkbox"/>
The machine shall be equipped with a three-level warning system viewed through the LCD display to alert the operators to abnormal machine conditions and shall include alternator malfunction, start aid indicator, high combustion air temperature, low engine oil pressure, high engine coolant temperature, high hydraulic oil temperature, air filter constriction, check engine/electrical fault and action lamp.	<input type="checkbox"/>	<input type="checkbox"/>
A backup alarm shall emit an audible alarm whenever the propel lever is moved into reverse.	<input type="checkbox"/>	<input type="checkbox"/>
The unit shall be equipped with a Roll Over Protection Structure/Falling Object Protection (ROPS/FOPS) that meets ISO 3471-2008 and ISO 3449-2005	<input type="checkbox"/>	<input type="checkbox"/>
A ROPS/FOPS cab shall be equipped with the machine	<input type="checkbox"/>	<input type="checkbox"/>
Anti-vandalism protection shall be provided for the operators gauge console, all external fluid fill necks and the engine/radiator compartment cover.	<input type="checkbox"/>	<input type="checkbox"/>
The same key that operates the ignition shall also operate and open all other locking devices.	<input type="checkbox"/>	<input type="checkbox"/>
Operator environment must have at least one 12 volt power outlet	<input type="checkbox"/>	<input type="checkbox"/>
Operator environment shall be provided with rear vision camera system with color touchscreen display	<input type="checkbox"/>	<input type="checkbox"/>

**DRUM/VIBRATORY SYSTEM**

The vibratory drum shall have a compaction width of not less than 1676 mm (66") wide.	<input type="checkbox"/>	<input type="checkbox"/>
The drum shall be smooth and not be less than 1221 mm (48.1") diameter and a shell thickness not less than 25 mm (1").	<input type="checkbox"/>	<input type="checkbox"/>
The vibratory hydraulic system shall consist of a variable displacement hydraulic pump driving a fixed displacement hydraulic motor coupled to an in-the-drum eccentric shaft type vibrator.	<input type="checkbox"/>	<input type="checkbox"/>
The eccentric shaft shall be supported by two heavy-duty, anti-friction bearings in an oil bath lubrication with an oil change interval of 3 years/3000 hours.	<input type="checkbox"/>	<input type="checkbox"/>
The eccentric weight shall be sealed and have interior cavity partially filled with steel shot for the purpose of changing amplitude.	<input type="checkbox"/>	<input type="checkbox"/>
The vibratory system shall be located in one pod-style housings.	<input type="checkbox"/>	<input type="checkbox"/>
The pods shall have dual seals to help prevent oil contamination.	<input type="checkbox"/>	<input type="checkbox"/>
The pod-style housings shall be removable.	<input type="checkbox"/>	<input type="checkbox"/>
The vibratory system shall have as standard two amplitude ranges for compaction of a wide range of materials and lift thicknesses.	<input type="checkbox"/>	<input type="checkbox"/>
Centrifugal force shall have a maximum of 133.4 kN (29,989.7 lb).	<input type="checkbox"/>	<input type="checkbox"/>

Introduced on: August 6, 2025  
Approved on: August 6, 2025  
Official Resolution #: 2025081106

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**DRUM/VIBRATORY SYSTEM (Cont'd)**

Centrifugal force shall have a minimum of 67 kN (15,056.3 lb).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Amplitude change shall be made from a rocker switch located on the right control console.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency shall be 31.9 Hz (1915 vpm) at maximum engine rpm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Variable frequency independent of engine rpm shall be available as an option.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
An adjustable steel drum cleaning device shall be mounted on the frame structure (or yoke) and is often referred to as a scraper	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front and rear polyurethane drum scrapers shall be available as well as a rear drum steel scraper.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A two-piece padfoot shell kit shall be available.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The drum and its vibratory components shall be isolated from the machine by resilient supports that isolate vibration during normal operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**FEATURED EQUIPMENT**

ROPS/FOPS cab shall have a cloth suspension seat with integrated console and LCD display, one access door, tinted safety glass windows, electric wipers front and rear, heater/defroster, side windows for ventilation, rear view mirrors, two front facing and two rear facing working lights, interior dome light all available. Sun visor, a roll-down sun screen and internal rear view mirrors shall also be available.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two-piece padfoot shell kit shall bolt onto the smooth drum for compaction of cohesive and semi-cohesive soils. This shall feature a 88.9 mm (3.5”) high pads and heavy duty scraper teeth and a special bumper that provides a secure area to store drum scraper plates when not in use. A choice of pad designs shall be available. Oval pads shall provide deep lift penetration. Square pads shall provide good surface sealing performance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steel drum scraper shall be available to be mounted at the rear of the drum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flexible drum scrapers shall be available for mounting at the front and rear of the drum and shall be made of polyurethane and designed to contact the drum and completely clean debris from the drum surface.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cat Compaction Control compaction measurement system shall be available with a choice of either Compaction Meter Value (CMV, accelerometer based)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Transmission Guard that bolts on the underside of the machine shall be available.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Variable vibration frequency shall allow the operator to vary drum frequency.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rotating beacon shall include an amber beacon and mount that can be attached to machines with a ROPS/FOPS canopy or ROPS/FOPS cab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**SERVICEABILITY**

The hydraulic oil system shall include a SOS port for the purpose of collecting hydraulic oil samples.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The engine enclosure shall pivot forward with the aid of two gas charged struts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drains for the cooling system, engine oil, hydraulic tank and fuel tank shall be provided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil level shall be checked with a sight gauge.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**MINIMUM SERVICE FILL CAPACITIES**

Fuel tank shall have a lockable fill cover and shall have a minimum capacity of 140 liters (37 gallons).

                    

Minimum engine oil capacity including filter shall be 10.6 liters (2.8 gallons).

                    

The hydraulic oil reservoir shall have a minimum capacity of 26 liters (6.9 gallons) and shall be common to the propulsion and vibratory systems.

                    

**PRODUCT SUPPORT**

The machine shall be equipped with a literature compartment and include a complete Operation and Maintenance Manual and Parts Manual. A service manual which covers Systems Operation, Testing and Adjusting and Disassembly/Assembly shall also be available through the seller.

                    

**ISO CERTIFICATION**

The quality system implemented by the manufacturer shall be certified to Quality Standard ISO 16714:2008

                    

ISO certifying agency and ISO Certificate Number shall be available upon request.

                    

**OPTIONS**

**1A. Diagnostic Tools / Test Equipment**

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment

1. Successful bidder may be required to supply between one (1) to three (3) complete sets of OEM 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)

                    

2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software.

                    

3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid.

                    

4. All software installations and activations will be completed by the successful bidder at no cost to the County.

                    

5. 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.

                    

6. 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.

                    

7. Training shall be provided on all items in this section at a County location.

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**            **NO**

**OPTIONS (Cont'd)**

**1B. Two-Way Radio Power and Wiring Requirements for New Vehicles**

For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
2. #12 AWG BLACK wire connected to chassis ground.
3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle and secured in the vicinity of the operator. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The wires shall be unterminated. The 12VDC sources shall be protected from making contact with grounded metal surfaces

          

**1C. Installation of County Supplied Two Way Radio and Accessories**

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
2. #12 AWG BLACK wire connected to chassis ground.
3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The 12VDC sources shall be protected from making contact with grounded metal surfaces.

          

**1D. Technical Support**

Technical Support is to be provided by factory authorized technical representatives and is to be the original equipment Manufacturer's industry standard technical presentation in a classroom setting

          

Technical support may be requested in the following areas:

1. Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
2. Transmission – 1 day at each location
3. Electrical – 1 day at each location
4. Brakes – 1 day at each location
5. Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
6. Upfitter (dump body, sweeper, etc.) – 1 day at each location

**ITEM 1 – CURRENT MODEL YEAR, OR NEWER, CATERPILLAR CS7 SOIL COMPACTOR, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**      **NO**

**OPTIONS (Cont'd)**

**1D. Technical Support (Cont'd)**

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 Vehicle Services. 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 Vehicle Services Department 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) Vehicle Services Department personnel. Actual class size will be determined by the Vehicle Services Department at the time the classes are scheduled.

    

Before the training is scheduled, Vehicle Services 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 Vehicle Services may be provided at the following fleet maintenance facility location as scheduled by a Vehicle Services Department representative:

a. Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (Two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)

b. Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

    

Technical Support for other Departments will be held at a location within Ocean 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.

[FOLEY INCORPORATED] RESPONSE DOCUMENT REPORT  
Bid No. TBD  
MOTOR VEHICLE: SOIL COMPACTOR

13. Acknowledgement of Submission of Forms from Current Bid Package\*

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

Confirmed

14. Submission of Bid Package\*

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Confirmed

PRICE TABLES

MOTOR VEHICLE: SOIL COMPACTOR

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model:	Delivery, A.R.O.:	Warranty:	Comments:
1	Current Model Year, Or Newer, Caterpillar CS7 Soil Compactor, As Specified Or Equal	1	EA	\$178,000.00	\$178,000.00				
OPTIONS									

[FOLEY INCORPORATED] RESPONSE DOCUMENT REPORT  
Bid No. TBD  
MOTOR VEHICLE: SOIL COMPACTOR

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model:	Delivery, A.R.O.:	Warranty:	Comments:
1A	Diagnostic Tools/Test Equipment, As Specified	3	SET	\$10,333.00	\$30,999.00				
1B	Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified	1	EA	\$1,000.00	\$1,000.00				
1C	Installation of County-Supplied Two Way Radio and Accessories, As Specified	1	EA	\$1,200.00	\$1,200.00				
1D	Technical Support, As Specified	180	HOUR	\$187.00	\$33,660.00				
<b>TOTAL</b>					<b>\$244,859.00</b>				