#### \*\*RE-ADVERTISEMENT\*\*

#### **INVITATION FOR BIDS**

### CUSTOM BUILT 500-GALLON FUEL/LUBE SYSTEM

#### TO FIT 2024 MACK CAB AND CHASSIS

IFB NO: 24-1032



# catawba county

MAKING, LIVING, BETTER.

Date of Issue: May 20, 2024

**Bid Opening Date: June 13, 2024** 

**Time: 3:00 PM ET** 

#### **Issued for:**

Catawba County Utilities & Engineering Department 25 Government Drive Newton, North Carolina 28658

Issued by:

Catawba County Purchasing Manager 25 Government Drive Newton, North Carolina 28658 (828) 465-8224

#### **SECTION I - PURPOSE AND BACKGROUND**

#### 1.1 PURPOSE

Catawba County (hereinafter "County") is in need of a Custom Built Enclosed Air Driven 500-Gallon Fuel Lube Box System to fit on a 2024 Mack Cab and Chassis. Catawba County has the 2024 Mack Cab and Chassis onsite. The specifications for the County's 2024 Mack Cab and Chassis is attached hereto as Attachment B.

#### **SECTION 2 - GENERAL INFORMATION / INSTRUCTIONS**

#### 2.1 INVITATION FOR BIDS

County is hereby soliciting bids from qualified Vendor(s) to provide an Enclosed Air Driven Fuel Lube box system to fit on a 2024 Mack Cab and Chassis. The enclosed box will be 16 feet long, have insulated walls and ceiling, rear dual roll up doors, separated reel compartment to keep dust free and heat in. A minimum of 6 LED Interior lights will be installed in the enclosure. A 500-gallon DOT approved, Semi Elliptical fuel tank mounted to the truck frame rails behind the cab and in front of the enclosed box. This Invitation for Bids (hereinafter "IFB") is comprised of the base IFB document, any attachments, and any addenda released before Contract award, which are incorporated herein by reference.

#### 2.2 NOTICE TO VENDORS REGARDING TERMS AND CONDITIONS

It shall be the Vendor's responsibility to read the General Information / Instructions, terms and conditions, all relevant exhibits and attachments, and any other components made a part of this IFB and comply with all requirements and specifications herein. Vendors also are responsible for obtaining and complying with all Addenda and other changes that may be issued in connection with this IFB.

If Vendors have questions, issues, or exceptions regarding any term, condition, instruction or other component within this IFB, those shall be submitted as questions in accordance with in the instructions in Section 2.4 BID QUESTIONS. If the County determines that any changes will be made as a result of the questions asked, then such decisions will be communicated in the form of an IFB addendum. Vendor's bid shall constitute a firm offer. Offer is valid for Sixty (60) days from date of bid opening. By execution and delivery of a Bid in response to this Invitation for Bids, Vendor agrees that any additional or modified terms and conditions, including Instructions to Vendors, whether submitted purposely or inadvertently, or any purported condition to the offer shall have no force or effect, and will be disregarded. Noncompliance with, or any attempt to alter or delete, this paragraph shall constitute sufficient grounds to reject Vendor's Bid as nonresponsive.

#### 2.3 IFB SCHEDULE

The table below shows the *intended* schedule for this IFB. Catawba County will make every effort to adhere to this schedule.

Event	Responsibility	Date and Time
Issue IFB	County	May 20, 2024
Submit Written Questions	Vendor	May 28, 2024 at 5:00 PM
Provide Responses to Questions	County	May 29, 2024 at 5:00 PM

Submit Sealed Bid	Vendor	June 13, 2024 at 3:00 PM
Contract Award	County	TBA

Catawba County will receive sealed Bids until 3:00 PM ET on June 13, 2024, at which time the Bids will be publicly opened and read aloud in the Catawba County Purchasing Department Conference Room, Government Center, located at 25 Government Drive, Newton, North Carolina 28658.

#### 2.4 IFB QUESTIONS

Upon review of the IFB documents, Vendor(s) may have questions to clarify or interpret the scope of work in order to submit the best bid response possible. To accommodate the IFB Questions process, Vendor shall submit any such questions by the above due date. Written questions shall be emailed to tinawright@catawbacountync.gov by the date and time specified above. Vendor should enter "IFB #: 24-1032 - Questions" as the subject for the email. Questions received prior to the submission deadline date, the County's response, and any additional terms deemed necessary by the County will be posted in the form addendum Catawba County of to the https://www.catawbacountync.gov/county-services/purchasing/bid-notices/ and shall become an Addendum to this IFB. No information, instruction or advice provided orally or informally by any County personnel, whether made in response to a question or otherwise in connection with this IFB, shall be considered authoritative or binding. Vendor shall rely only on written material contained in an Addendum to this IFB.

#### 2.5 BID SUBMITTAL

Sealed Bids, subject to the conditions made a part hereof, shall be received at the address indicated in the table below, no later than 3:00 PM on June 13, 2024.

Mailing address for delivery of bid via US Postal Service	Office Address of delivery by any other method (hand delivery, overnight, or any other carrier)
IFB No: 24-1032	IFB No: 24-1032
Catawba County Government Center	Catawba County Government Center
Attn: Purchasing Department	Attn: Purchasing Department
Post Office Box 389	25 Government Drive
Newton, North Carolina 28658	Newton, North Carolina 28658

It is the responsibility of the Vendor to have the signed Bid physically in this Office by the specified time and date of opening, regardless of the method of delivery. This is an absolute requirement. The time and delivery will be marked on each bid when received, and any bid received after the bid submission deadline will not be accepted or evaluated.

All risk of later arrival due to unanticipated delay – whether delivered by hand, U.S. Postal Service, courier or other delivery service method – is entirely on the Vendor. All Vendors are urged to take the possibility of delay into account when submitting a Bid.

Vendors shall deliver one **(1) signed, original executed** bid response to the address identified in the table in this Section. Include only Bids in response to this IFB in a sealed package. Address package and insert IFB number as shown in the table in this Section.

Bids shall be marked on the outside of the sealed envelope with the Vendor's name, IFB number and date and time of opening. If Vendor is submitting more than one bid, each bid shall be submitted in separate sealed envelopes and marked accordingly.

Attempts to submit a Bid via telephone or electronic means, including but not limited to email, in response to this Invitation for Bids will **not** be accepted. Bids are subject to rejection unless submitted with the information above included on the outside of the sealed bid package.

Critical updated information may be included in Addenda to this IFB. It is important that all Vendors proposing on this IFB periodically check the County website for any Addenda that may be issued prior to the bid opening date. All Vendors shall be deemed to have read and understood all information in this IFB and all Addenda thereto.

#### 2.6 BID CONTENTS

For the sealed bid, Vendor(s) shall populate all attachments of this IFB that require the Vendor to provide information and include an authorized signature where requested, as outlined below. Vendor IFB responses shall include the following items and they should be arranged in the following order:

- a) Completed and signed version of ATTACHMENT A: VENDOR PRICING FORM AND OFFER CERTIFICATION.
- b) ATTACHMENT C: REFERENCE DISCLOSURE FORM.

#### SECTION 3 - METHOD OF AWARD AND BID EVALUATION PROCESS

#### 3.1 METHOD OF AWARD

All qualified bids will be evaluated and an award will be based on the lowest responsive and responsible bidder meeting specifications.

Catawba County reserves the right to reject any and all Bid responses and to waive informalities as may be permitted by law.

#### 3.2 PROHIBITED COMMUNICATIONS DURING EVALUTION

While this IFB is under evaluation, the responding Vendor, including any subcontractors and suppliers, is prohibited from engaging in conversations intended to influence the outcome of the evaluation.

#### 3.3 BID EVALUATION PROCESS

The County shall review all Vendor responses to this IFB to confirm that they meet the specifications and requirements of the IFB.

- a) Bids are requested for the items as specified, or item(s) equivalent in design, function and performance. The County reserves the right to reject any bid on the basis of fit, form and function as well as cost. All information furnished on this bid may be used as a factor in determining the award of this contract.
- b) Bids will be received from each responsive Vendor in a sealed envelope or package.
- c) All bids shall be received by the issuing agency not later than the date and time specified on the cover sheet of this IFB.
- d) At that date and time specified as the bid opening, the package containing the bids from each responding firm will be opened publicly and the name of the Vendor and the price(s) bid announced.
- e) The County shall review all Vendor responses to this IFB to confirm that they meet the specifications and requirements of the IFB.

- For all responses that pass the initial review process, the County will review and assess the Vendors' pricing. The County may request additional formal responses or submissions from any or all Vendors for the purpose of clarification or to amplify the materials presented in any part of the bid. Vendors are cautioned, however, that the County is not required to request clarification, and often does not. Therefore, all bids should be complete and reflect the most favorable terms available from the Vendor. Prices bid cannot be altered or modified as part of a clarification.
- g) Bids will be evaluated, based on the award criteria identified in Section 3.1 METHOD OF AWARD.

Vendors are cautioned that this is a request for offers, not an offer or request to contract, and the County reserves the unqualified right to reject any and all offers at any time if such rejection is deemed to be in the best interest of the County.

Upon completion of the evaluation process, the County will make an award based on the evaluation. Award of a Contract to one Vendor does not mean that the other bids lacked merit, but that, all factors considered, the selected bid was deemed most advantageous and represented the best value to the County.

#### 3.4 INTERPRETATION OF TERMS AND PHRASES

This Invitation for Bids serves two functions: (1) to advise potential Vendors of the parameters of the solution being sought by the County; and (2) to provide (together with other specified documents) the terms of the Contract resulting from this procurement. As such, all terms in the Invitation for Bids shall be enforceable as contract terms in accordance with the General Contract Terms and Conditions. The use of phrases such as "shall," "must," and "requirements" are intended to create enforceable contract conditions. In determining whether bids should be evaluated or rejected, the County will take into consideration the degree to which Vendors have proposed or failed to propose solutions that will satisfy the County's needs as described in the Invitation for Bids. Except as specifically stated in the Invitation for Bids, no one requirement shall automatically disqualify a Vendor from consideration. However, failure to comply with any single requirement may result in the County exercising its discretion to reject a bid in its entirety.

#### **SECTION 4 - REQUIREMENTS**

This Section lists the requirements related to this IFB. By submitting a bid, the Vendor agrees to meet all stated requirements in this Section as well as any other specifications, requirements and terms and conditions stated in this IFB. If a Vendor is unclear about a requirement or specification or believes a change to a requirement would allow for the County to receive a better bid, the Vendor is urged and cautioned to submit these items in the form of a question during the question and answer period in accordance with Section 2.4.

#### 4.1 PRICING

Bid price shall constitute the total cost to County including but not limited to, all applicable charges for shipping, delivery, handling, sales tax, administrative and other similar fees. Vendor shall not invoice for any amounts not specifically allowed for in this IFB. Complete ATTACHMENT A: VENDOR PRICING AND OFFER CERTIFICATION FORM and include with Bid Response.

#### 4.2 PRODUCT IDENTIFICATION - SUITABILITY FOR INTENDED USE

Vendors are requested to offer only items directly complying with the specifications herein or comparable items which will provide the equivalent capabilities, features and diversity called for herein. The County reserves the right to evaluate all bids for suitability for the required use and to award the one best meeting requirements and considered to be in the County's best interest.

#### 4.3 TRANSPORT OF TRUCK

County will transport the 2024 Mack Cab and Chassis to Vendors location for the work to be completed. When the work is complete, the County will pick up the vehicle from Vendors location.

#### 4.4 REFERENCES

Vendor shall include in bid response a completed ATTACHMENT C: REFERENCE DISCLOSURE FORM. The County may contact these users to determine quality level of the offered; as well as, but not limited to user satisfaction with Vendor performance. Such information may be considered in the evaluation of the bid. Vendor shall use ATTACHMENT C: REFERENCE DISCLOSURE FORM to provide the required information for a minimum of three references.

#### **SECTION 5 - PRODUCT SPECIFICATIONS**

#### **5.1 GENERAL SPECIFICATIONS**

Items offered by the Vendor must meet or exceed the minimum specifications as detailed below. Technical specifications define the minimum acceptable standard. When the specification calls for "Brand Name or Equal", the brand name product is acceptable. Alternates will be considered upon demonstrating the other product meets stated specifications and is equivalent to the brand product in terms of quality, performance and desired characteristics. Burden of proof that the product meets the minimum standards or is equal to the brand name product is on the bidder. The County reserves the right to reject bids that the County deems unacceptable. The specific quantity of items, unit of measure and item descriptions are listed in the chart below.

ITEM #	QTY	UOM	DESCRIPTION		
	OIL SYSTEM				
1	7	EA	Graco 5:1 Oil Pump		
2	7	EA	CO7 Regulator		
3	7	EA	327033 Adapters		
4	7	EA	Graco Mechanical Oil Meters		
5	7	EA	Alemite 50' x ½" Oil Reels		
6	7	EA	NPN Host Hit		
7	7	EA	NPN Ball Valves & Nipples		
8	7	EA	Inline Product Filters		
			ANTIFREEZE SYSTEM		
9	1	EA	3/8" Air Operated Pump		
10	1	EA	C07 Regulator		
11	1	EA	180685 Water Bib		
12	1	EA	8078F 3/8" Alemite Reel		
13	1	EA	NPN Conn Hose Kit		
	DEF SYSTEM				
14	1	EA	3/8" Air Operated DEF Pump		
15	1	EA	C07 Regular		

16	1	EA	DEF 50' Reel		
17	1	EA	Nozzle with Swivel		
18	1	EA	NPN Stainless and Poly Conn Hose Kit		
19	1	EA	Heated and Insulated Tank		
			GREASE SYSTEM		
20	1	EA	8540-A1 Air Operated 70:1 120lb Pump		
21	1	EA	Alemite 50' x 3/8" Reel		
22	1	EA	NPN Conn Hose Kit		
23	1	EA	C07 Combo Kit		
24	1	EA	6320 Control with Swivel		
25	1	EA	Tie Downs		
26	1	EA	Insulated Blanket		
27	1	EA	Heated Grease Base		
			AIR SYSTEM		
28	1	EA	TPL Hydraulic Compressor 32CFM, PTO Driven		
29	1	EA	NPN Air Manifold Kit		
30	1	EA	Alemite 50' x ½" Air Reel		
			WASTE OIL		
31	1	EA	1" Air Operated Diaphragm Pump		
32	1	EA	1" x 30' Alemite Waste Oil Reel		
33	1	EA	NPN Y-strainers		
34	1	EA	NPN Coupler Kits		
35	1	EA	NPN Conn Hose Kits		
36	1	EA	½" Regulators		
37	1	EA	4-way Valves		
<b>J</b> .	FUEL SYSTEM				
38	1	EA	1 ½" Hydraulic Operated Fuel Pump		
39	1	EA	1" Fuel Reel with 50' Hose		
40	1	EA	1" Tuthill Fuel Meter		
41	1	EA	NPN Connecting Hose		
	_		TANKS WITH VENT FILL		
42	7	EA	55-Gallon Drum Oil System (County to supply oil drums)		
43	1	EA	200-Gallon Waste Tank		
44	1	EA	55-Gallon DEF Stainless Tank		
45	1	EA	55-Gallon Anti-Freeze Stainless Tank		
			500-Gallons Diesel Semi Elliptical Tank in Front of		
46	1	EA	Enclosed Body		
47	4	EA	Spot Lights		
48	4	EA	4100 Lum Spots on Side of Truck		
49	4	EA	Amber & Clear Strobes Front and Rear		
	· ·		16' ENCLOSED BOX		
50	4	EA	Insulated Walls		
51	1	EA	Insulated Ceilings		
52	1	EA	Rear Roll Up Doors		
			Separated Reel Compartment to Keep Rear Dust Free		
53	1	EA	and Heat In		
54	6	EA	LED Interior Lights		
			Paint Body White with Black Skirting and Rubber		
55	1	EA	Federates		
	OTHER COMPONENTS				
56	1	EA	3-Drawer Tool Box Mounted at Bumper		
		בולו	o Diawei 1001 Dox mounted at Dumper		

57	1	EA	4-Drawer Tool Box Mounted at Bumper
58	5	EA	Storage Boxes Underbody (Dimensions to be determined
36 3			but to will fill all available space)
59	1	EA	Heavy Duty 12-Drawer Tool Box Mounted at Driver's
39	1		Side Rear
60	2	EA	Interior Cabinets with Flip Up Door Running Down Each
00	4		Side with Center Angle Shelf
61	1	EA	Used Filter Insert with Suction Adaptor Mounted at Rear
01	1		of Passenger Side of Truck
62	1	EA	Rear Vision Back Up Camera with LCD Screen
63	1	EA	Catch Pan Storage Box in Rear Center of Bumper. Box to
03	1		be Fully Enclosed.
64	1	EA	Aluminum Catch Pan for Above Box.
65	1	EA	5lb Fire Extinguisher
66	2	EA	Grab Handles on Rear Sides, added to Rear
67	1	EA	115 Volt Heater to Plug In or Plug On Outside of Box for
07	1	LA	Night Heating
68	1	EA	Espar Diesel Fired Heater for Rear of Truck with
00	1	ĽA	Controls in Cab

#### 5.2 COUNTY'S 2024 MACK CAB AND CHASSIS

Attached to this IFB as Attachment B are the County's 2024 Mack Cab and Chassis Specifications. If necessary, Vendor may come onsite to verify measurements of the 2024 Mack Cab and Chassis by scheduling an appointment with Rodney Hamby, Catawba County Landfill Superintendent, at (828) 312-1672.

The nature of all deviations from the Specifications listed in Section 5. Product

#### **5.3 DEVIATIONS**

Specifications shall be clearly described by the Vendor. Otherwise, it will be considered that items offered by the Vendor are in strict compliance with the Specifications provided herein, and the successful Vendor shall be required to supply conforming goods. Deviations shall be explained in detail below or on an attached sheet. For any deviation to be accepted, it must be approved by the County. However, no implication is made or intended by the County that any deviation will be acceptable.
intended by the County that any deviation will be acceptable.
<del></del>

#### **SECTION 6 - CONTRACT ADMINISTRATION**

All Contract Administration requirements are conditioned on an award resulting from this solicitation. This information is provided for the Vendor's planning purposes.

#### **6.1 ACCEPTANCE OF WORK**

Performance of the work and/or delivery of Goods shall be conducted and completed in accordance with the Contract requirements and recognized and customarily accepted industry practices. Performance shall be considered complete when the Services or Goods are approved as acceptable by the County.

Acceptance of work products shall be based on the following criteria: See Section 5 Product Specifications.

The County shall have the obligation to notify Vendor, in writing ten (10) calendar days following completion of such work or delivery of a deliverable described in the Contract that it is not acceptable. The notice shall specify in reasonable detail the reason(s) it is unacceptable. Acceptance by the County shall not be unreasonably withheld; but may be conditioned or delayed as required for reasonable review, evaluation, installation, or testing, as applicable to the work or deliverable. Final acceptance is expressly conditioned upon completion of all applicable assessment procedures.

#### **6.2 INVOICES**

Vendor shall invoice the Catawba County Utilities and Engineering Department. The standard format for invoicing shall be Single Invoices meaning that the Vendor shall provide the Department with an invoice for each order. Invoices shall include detailed line item information to allow the Department to verify pricing at point of receipt matches the correct price from the original date of order.

At a minimum, the following fields shall be included on all invoices: Vendor's Billing Address, Customer Account Number, Order Date, Buyer's Order Number, Manufacturer Part Numbers, Vendor Part Numbers, Item Descriptions, Price, Quantity, and Unit of Measure.

INVOICES MAY NOT BE PAID UNTIL AN INSPECTION HAS OCCURRED AND THE GOODS ACCEPTED.

#### **6.3 WARRANTY**

The Contractor shall guarantee and warrant all materials purchased pursuant to this Invitation for Bids against defect due to faulty material, workmanship and/or negligence for a minimum period of one (1) year from acceptance.

#### **6.4 PRODUCT RECALL**

Vendor expressly assumes full responsibility for prompt notification to the Buyer listed on the face of this IFB of any product recall in accordance with the applicable state or federal regulations. The Vendor shall support the County, as necessary, to promptly replace any such products, at no cost to the County.

#### 6.5 E-VERIFY

Vendor shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Further, if Vendor uses a subcontractor, Vendor shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes.

#### **SECTION 7 - ATTACHMENTS**

# ATTACHMENT A VENDOR PRICING AND OFFER CERTIFICATION

IFB No: 24-1032 FOR CUSTOM BUILT 500-GALLON FUEL/LUBE SYSTEM TO FIT 2024 MACK CAB AND CHASSIS

The Total Contract Bid Amount, included on this Vendor Pricing and Offer Certification Form, shall constitute the total cost to the County, no deviations for cost increases will be accepted. If Vendor is offering an equivalent Manufacturer / Brand, please list that Manufacturer / Brand name in the column below. Vendor agrees to furnish and deliver the following:

ITEM#	QTY	UOM	DESCRIPTION	MANUFACTURER/ BRAND OFFERED		
	OIL SYSTEM					
1	7	EA	Graco 5:1 Oil Pump			
2	7	EA	CO7 Regulator			
3	7	EA	327033 Adapters			
4	7	EA	Graco Mechanical Oil Meters			
5	7	EA	Alemite 50' x ½" Oil Reels			
6	7	EA	NPN Host Hit			
7	7	EA	NPN Ball Valves & Nipples			
8	7	EA	Inline Product Filters			
			ANTIFREEZE SYST	EM		
9	1	EA	3/8" Air Operated Pump			
10	1	EA	C07 Regulator			
11	1	EA	180685 Water Bib			
12	1	EA	8078F 3/8" Alemite Reel			
13	1	EA	NPN Conn Hose Kit			
			DEF SYSTEM			
14	1	EA	3/8" Air Operated DEF Pump			
15	1	EA	C07 Regular			
16	1	EA	DEF 50' Reel			
17	1	EA	Nozzle with Swivel			

1	18	1	EA	NPN Stainless and Poly Conn Hose Kit				
20	19	1	EA	Heated and Insulated Tank				
Pump		GREASE SYSTEM						
22	20	1	EA	-				
23	21	1	EA	Alemite 50' x 3/8" Reel				
24	22	1	EA	NPN Conn Hose Kit				
25	23	1	EA	C07 Combo Kit				
Section	24	1	EA	6320 Control with Swivel				
The continue of the continue	25	1	EA	Tie Downs				
AIR SYSTEM	26	1	EA	Insulated Blanket				
BA	27	1	EA	Heated Grease Base				
Property   Property				AIR SYSTEM				
Section	28	1	EA					
WASTE OIL   STATE OIL   WASTE OIL   WAST	29	1	EA	NPN Air Manifold Kit				
31	30	1	EA	Alemite 50' x ½" Air Reel				
32       1       EA       1" x 30" Alemite Waste Oil Reel         33       1       EA       NPN Y-strainers         34       1       EA       NPN Coupler Kits         35       1       EA       NPN Conn Hose Kits         36       1       EA       ½" Regulators         37       1       EA       4-way Valves         FUEL SYSTEM         38       1       EA       1 "Yell Reel with 50" Hose         40       1       EA       1" Tuthill Fuel Meter         41       1       EA       NPN Connecting Hose         TANKS WITH VENT FILL         42       7       EA       55-Gallon Drum Oil System (County to supply oil drums)         43       1       EA       200-Gallon Waste Tank				WASTE OIL				
33	31	1	EA	1" Air Operated Diaphragm Pump				
34	32	1	EA	1" x 30' Alemite Waste Oil Reel				
35	33	1	EA	NPN Y-strainers				
36	34	1	EA	NPN Coupler Kits				
Tanks with vent fill   Fill	35	1	EA	NPN Conn Hose Kits				
Second	36	1	EA	½" Regulators				
38       1       EA       1 ½" Hydraulic Operated Fuel Pump         39       1       EA       1" Fuel Reel with 50' Hose         40       1       EA       1" Tuthill Fuel Meter         41       1       EA       NPN Connecting Hose         TANKS WITH VENT FILL         42       7       EA       55-Gallon Drum Oil System (County to supply oil drums)         43       1       EA       200-Gallon Waste Tank	37	1	EA	4-way Valves				
39       1       EA       1" Fuel Reel with 50' Hose         40       1       EA       1" Tuthill Fuel Meter         41       1       EA       NPN Connecting Hose         TANKS WITH VENT FILL         42       7       EA       55-Gallon Drum Oil System (County to supply oil drums)         43       1       EA       200-Gallon Waste Tank				FUEL SYSTEM				
40       1       EA       1" Tuthill Fuel Meter         41       1       EA       NPN Connecting Hose         TANKS WITH VENT FILL         42       7       EA       55-Gallon Drum Oil System (County to supply oil drums)         43       1       EA       200-Gallon Waste Tank	38	1	EA	1 ½" Hydraulic Operated Fuel Pump				
41 1 EA NPN Connecting Hose  TANKS WITH VENT FILL  42 7 EA 55-Gallon Drum Oil System (County to supply oil drums)  43 1 EA 200-Gallon Waste Tank	39	1	EA	1" Fuel Reel with 50' Hose				
TANKS WITH VENT FILL  42 7 EA 55-Gallon Drum Oil System (County to supply oil drums)  43 1 EA 200-Gallon Waste Tank	40	1	EA	1" Tuthill Fuel Meter				
42 7 EA 55-Gallon Drum Oil System (County to supply oil drums) 43 1 EA 200-Gallon Waste Tank	41	1	EA	NPN Connecting Hose				
to supply oil drums)  43				TANKS WITH VENT	FILL			
	42	7	EA					
44 1 EA 55-Gallon DEF Stainless Tank	43	1	EA	200-Gallon Waste Tank				
	44	1	EA	55-Gallon DEF Stainless Tank				

45	1	EA	55-Gallon Anti-Freeze Stainless Tank	
46	1	EA	500-Gallons Diesel Semi Elliptical Tank in Front of Enclosed Body	
47	4	EA	Spot Lights	
48	4	EA	4100 Lum Spots on Side of Truck	
49	4	EA	Amber & Clear Strobes Front and Rear	
			16' ENCLOSED BO	OX
50	4	EA	Insulated Walls	
51	1	EA	Insulated Ceilings	
52	1	EA	Rear Roll Up Doors	
53	1	EA	Separated Reel Compartment to Keep Rear Dust Free and Heat In	
54	6	EA	LED Interior Lights	
55	1	EA	Paint Body White with Black Skirting and Rubber Federates	
			OTHER COMPONE	NTS
56	1	EA	3-Drawer Tool Box Mounted at Bumper	
57	1	EA	4-Drawer Tool Box Mounted at Bumper	
58	5	EA	Storage Boxes Underbody (Dimensions to be determined but to will fill all available space)	
59	1	EA	Heavy Duty 12-Drawer Tool Box Mounted at Driver's Side Rear	
60	2	EA	Interior Cabinets with Flip Up Door Running Down Each Side with Center Angle Shelf	
61	1	EA	Used Filter Insert with Suction Adaptor Mounted at Rear of Passenger Side of Truck	
62	1	EA	Rear Vision Back Up Camera with LCD Screen	
63	1	EA	Catch Pan Storage Box in Rear Center of Bumper. Box to be Fully Enclosed.	
64	1	EA	Aluminum Catch Pan for Above Box.	
65	1	EA	5lb Fire Extinguisher	

66	2	EA	Grab Handles on Rear Sides, added to Rear	
67	1	EA	115 Volt Heater to Plug In or Plug On Outside of Box for Night Heating	
68	1	EA	Espar Diesel Fired Heater for Rear of Truck with Controls in Cab	

TOTAL CONTRACT BID AMOUNT (I numerical forms.	Lump Sum): Write bid amounts in both written a	and
	Dollars (\$	_)
Number of days for time of completion?ACKNOWLEGEMENT: Addendum, if	(Days) issued, received and used in computing bid:	
Addendum No. 1	Addendum No. 3	
Addendum No. 2	Addendum No. 4	

#### **OFFER CERTIFICATION**

In compliance with this Invitation for Bid (IFB), and subject to all the conditions herein, the undersigned Vendor offers and agrees to furnish and deliver any or all items upon which prices are bid, at the prices set opposite each item and contained in this Pricing Sheet.

By executing this bid, the undersigned Vendor understands that false certification is a Class I felony and certifies that:

- this bid is submitted competitively and without collusion (G.S. 143-54),
- none of its officers, directors, or owners of an unincorporated business entity has been convicted of any violations of Chapter 78A of the General Statutes, the Securities Act of 1933, or the Securities Exchange Act of 1934 (G.S. 143-59.2), and
- it is not an ineligible Vendor as set forth in G.S. 143-59.1.
- it and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal or State department or agency.

By executing this bid, Vendor certifies that it has read and agreed to the instruction to bidders and the terms and conditions included in the IFB. If your bid is accepted, all provisions of this IFB, along with the written results of any negotiations, shall constitute the written agreement between the parties ("Contract"). Failure to execute/sign bid prior to submittal shall render bid invalid and bid WILL BE REJECTED. ACCEPTED AND AGREED TO:

Company Name:			
1 2			ъ

Signature:	
Printed Name:	
Title:	Date:

#### BID ACCEPTANCE.

If your bid is accepted, all provisions of this IFB, along with the written results of any negotiations, shall constitute the written agreement between the parties ("Contract").

END OF BID FORM

# ATTACHMENT B SPECIFICATIONS FOR COUNTY'S 2024 MACK CAB AND CHASSIS

# TECHNICAL SPECIFICATION GRANITE 64FR MACK SPEC



	ICATION PACKAGES	DESCRIPTION
	CHASSIS CONFIGURATION PACKAGE	ONEBOX EATS, LH BATTERY BOX, 6.6 GALLON (25L) SLEEVED DEF, 22" SLEEVED LH FUEL TANK
CUST	OMER/VEHICLE INFO	DESCRIPTION
s	CHASSIS (BASE MODEL)	GRANITE 64FR MACKSPEC
s	ASSEMBLY PLANT	Made in Macungie, PA USA
	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND
s	TYPE OF SERVICE	COMMERCIAL
s	WARRANTY REGISTRATION LOCATION	USA - WARRANTY REGISTRATION LOCATION
	EMISSION WARRANTY CERTIFICATION	EPA (only) for Mack MP7 / MP8 Diesel
	INTENDED REGISTRATION LOCATION	NORTH CAROLINA
s	INITIAL REGISTRATION LOCATION	USA REGISTRATION
	BRAND ORNAMENT	BULLDOG BRAND ORNAMENT, GOLD
s	LANGUAGE-PUBS/DECAL/SIGNS	ENGLISH
s	ROAD CONDITION	WELL MAINTAINED SURFACED ROADS >95% DRIVING DISTANCE
	VEHICLE USE & BODY/TRAILER TYPE	SERVICE/UTILITY TRUCK
	TRAILER TYPE	WITHOUT TRAILER TYPE
s	GROSS COMBINATION WEIGHT (CA in PC29 only)	TRUCK ONLY - NO TRAILER TOWING PROVISIONS PROVIDED
s	BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 94M (310FT)
	TOPOGRAPHY	GRADES <3% GREATER THAN 98% OF DRIVING DISTANCE MAX GRADE 8%
s	AMBIENT TEMP UPPER LIMIT (GTA)	AMBIENT TEMPERATURE HOT. WARMER THAN 104 F (40 C) ALLOWED UP TO 25 HOURS PER YEAR
s	OPERATING TERRAIN GRADE CONDITIONS	ON-OFF HIGHWAY, STARTING GRADES<18%
s	LOADING SURFACE FACTOR	CONCRETE LOADING AND / OR UNLOADING SURFACE
	VEHICLE VOCATION	CONSTRUCTION SERVICE
ENGI	NE/TRANSMISSIONS	DESCRIPTION
ENGI	NE/TRANSMISSIONS	AND THE CONTROL OF TH
	ENGINE PACKAGE, COMBUSTION	MP7-425C MACK 425HP @ 1500-1800 RPM (PEAK) 2100 RPM (GOV) 1550 LB-FT, US'21
S	GHG APPLICATION, VEHICLE	GREEN HOUSE GAS VOCATIONAL APPLICATION  MACK TMD14AFO-HD mDRIVE HD 14 SP, ULTRA-LOW CREEPER/ MULTI-SPEED REVERSE
	TRANSMISSION	(OVERDRIVE)
S	GEARBOX 12TH GEAR LOCK-OUT	WITHOUT 12TH GEARBOX GEAR LOCK-OUT
EXHA	UST/EMISSIONS	DESCRIPTION
	NOX LIMITS	CARB LEGACY / EPA (200MG/HP/HR), 50 State Idle Compliance
	DPF DIESEL PARTICULATE FILTER	CLEARTECH ONE BOX E.A.T.S. RH SIDE UNDER CAB US17 / US21
S		W/O DEE COVER & PAINTED DPE COVER
	CHASSIS MOUNTED EMISSIONS FINISH	
s s	CHASSIS MOUNTED EMISSIONS FINISH DIESEL EXHAUST FLUID TANK	6.6 GALLON (25 L) 22° LEFT SIDE FUEL TANK MTD
s		6.6 GALLON (25 L) 22" LEFT SIDE FUEL TANK MTD SINGLE VERTICAL RIGHT SIDE OUTBOARD MOUNTED STRAIGHT EXHAUST STACK TURNED OUT
s s	DIESEL EXHAUST FLUID TANK EXHAUST	6.6 GALLON (25 L) 22" LEFT SIDE FUEL TANK MTD SINGLE VERTICAL RIGHT SIDE OUTBOARD MOUNTED STRAIGHT EXHAUST STACK TURNED OUT END
s s	DIESEL EXHAUST FLUID TANK	6.6 GALLON (25 L) 22" LEFT SIDE FUEL TANK MTD SINGLE VERTICAL RIGHT SIDE OUTBOARD MOUNTED STRAIGHT EXHAUST STACK TURNED OUT

# TECHNICAL SPECIFICATION (cont.)



ENG	NE EQUIPMENT	DESCRIPTION
s	AIR CLEANER	UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR INTAKE FROM BOTH SIDES OF HOOD
,	BUG SCREEN	BLACK ALUMINUM BUG SCREEN MOUNTED BEHIND GRILLE, WITHOUT WINTER FRONT COVER
	AIR COMPRESSOR/DRYER	WABCO HEATED SS-HP AIR DRYER W/ WABCO 636 (37.4 CFM) AIR COMPRESSOR
	ALTERNATOR	DELCO 12V 160A (28SI) BRUSH-TYPE
	BATTERIES	(3) MACK 12V 760/2280 CCA THREADED STUD TYPE
	BATTERY BOX - MOUNTING (x)	LH RAIL UNDER CAB FORWARD OF FUEL TANK (3 BATTERY MAX)
	BATTERY BOX COVER	MOLDED PLASTIC
	EMERGENCY START CONNECTIONS	EMERGENCY START STUDS, BATTERY BOX MOUNTED
	BATTERY DISCONNECT SWITCH	FLAMING RIVER BIG SWITCH WIRED TO POSITIVE SIDE
	STARTER MOTOR	12 VOLT DELCO 39MT-MXT
	ENGINE BRAKE	MACK MP7 POWERLEASH
	ENGINE BRAKE LIGHTING (CA)	VEHICLE AND TRAILER (IF APPLICABLE) STOP LAMPS ACTIVATE UPON SERVICE BRAKE APPLICATION ONLY(3899000)
3	FAN DRIVE	BEHR FAN AND ELECTRONIC MODULATING VISCOUS FAN DRIVE
,	COOLANT PROTECTION	ETHYLENE GLYCOL FULLY FORMULATED COOLANT (50/50 MIX DYED PINK) TO -34DEG, W/ FILTE
	HOSES - RADIATOR/HEATER	MACK EPDM RADIATOR & HEATER HOSES, w/ 1/4 TURN BALL VALVE HEATER HOSE
	FUEL-WATER SEPARATOR	MACK W/MANUAL DRAIN VALVE V2 (INTEGRAL W/ PRIMARY FUEL FILTER)
	ENGINE HEATERS	120v 1500w BLOCK HEATER ONLY (120v-15A PLUG)
	OIL SUMP	OIL PAN
3	ENGINE STOP, EMERGENCY (CA in PC29 only)	WITHOUT ENGINE STOP, EMERGENCY
Secret in		
		DESCRIPTION
4000	CH/TRANS EQUIPMENT	
	GEAR SHIFTER	MACK mDRIVE-PREMIUM SHIFTER
3	GEAR SHIFTER CLUTCH	MACK mDRIVE-PREMIUM SHIFTER ZF/SACHS SINGLE PLATE 17" (430MM) ORGANIC MATERIAL
3	GEAR SHIFTER	MACK mDRIVE-PREMIUM SHIFTER ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL
3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL	MACK mDRIVE-PREMIUM SHIFTER ZF/SACHS SINGLE PLATE 17" (430MM) ORGANIC MATERIAL
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER  CLUTCH  CLUTCH ACTUATION SYSTEM & PEDAL PAD	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)
	GEAR SHIFTER  CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD  DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17° (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER
i i i i i i i i i i i i i i i i i i i	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER
i i i i i i i i i i i i i i i i i i i	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17° (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER
FROM	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS
FROM	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST  NT AXLE EQUIPMENT FRONT AXLE SPRINGS - FRONT	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17° (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS  MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST  NT AXLE EQUIPMENT FRONT AXLE SPRINGS - FRONT FRONT AXLE BRAKES	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS  MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS  MERITOR "S" CAM TYPE 16.5" x 6" Q+
S S S S S S S S S S S S S S S S S S S	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST  NT AXLE EQUIPMENT FRONT AXLE SPRINGS - FRONT FRONT AXLE BRAKES BRAKE, FRONT	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17" (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS  MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS  MERITOR "S" CAM TYPE 16.5" x 6" Q+  CAST IRON
FROM	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST  AT AXLE EQUIPMENT FRONT AXLE SPRINGS - FRONT FRONT AXLE BRAKES BRAKE, FRONT FRONT BRAKE ADJ. MANUFACTURE	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17" (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS  MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS  MERITOR "S" CAM TYPE 16.5" x 6" Q+  CAST IRON  HALDEX - AUTOMATIC
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST  NT AXLE EQUIPMENT FRONT AXLE SPRINGS - FRONT FRONT AXLE BRAKES BRAKE, FRONT FRONT BRAKE ADJ. MANUFACTURE FRONT BRAKE CHAMBER MFG. HUB MATERIAL, FRONT FRONT AXLE LUBRICANT	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS  MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS  MERITOR "S" CAM TYPE 16.5" x 6" Q+  CAST IRON  HALDEX - AUTOMATIC  FRONT BRAKE CHAMBER MANUFACTURER, MGM
S S S S S S S S S S S S S S S S S S S	GEAR SHIFTER CLUTCH CLUTCH ACTUATION SYSTEM & PEDAL PAD DRIVELINE - MAIN DRIVELINE - INTERAXLE PROPELLR SHAFT MAIN, UNVSL JNT PROP SHAFT INTERAXL UNIV JOINT TRANSMISSION OUTPUT TORQUE LUBRICANTS, TRANSMISSION TRANSMISSION OIL COOLER HILL START ASSIST  NT AXLE EQUIPMENT FRONT AXLE SPRINGS - FRONT FRONT AXLE BRAKES BRAKE, FRONT FRONT BRAKE ADJ. MANUFACTURE FRONT BRAKE CHAMBER MFG. HUB MATERIAL, FRONT	MACK mDRIVE-PREMIUM SHIFTER  ZF/SACHS SINGLE PLATE 17* (430MM) ORGANIC MATERIAL  WITHOUT CLUTCH CABLE SYSTEM  MERITOR RPL35, WITH CROSS SERRATED YOKE (PROPS-XL)  MERITOR RPL25  UNIVERSAL JOINT CROSS SERRATED YOKE  HALF-ROUND UNIVERSAL JOINT  TRANSMISSION OUTPUT TORQUE BASIC  75W - 90 (SYNTHETIC LUBRICANT)  MACK mDRIVE TRANSMISSION OIL COOLER MOUNTED LH SIDE OIL TO WATER COOLER  GRADE GRIPPER  DESCRIPTION  18000# (8200 KG) MACK FXL18 STRAIGHT SPINDLE/UNITIZED BEARINGS  MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS  MERITOR "S" CAM TYPE 16.5" x 6" Q+  CAST IRON  HALDEX - AUTOMATIC  FRONT BRAKE CHAMBER MANUFACTURER, MGM  FERROUS

## TECHNICAL SPECIFICATION (cont.)



FRONT AXLE EQUIPMENT		DESCRIPTION	SIL
S	STEERING	SHEPPARD SD110	-

REAL	R AXLE EQUIPMENT	DESCRIPTION
S	REAR AXLE	38000# (17200kg) MACK S38R FABRICATED STEEL HOUSING
S	DRIVE AXLE LUBRICANT	DRIVE AXLE LUBE, SHELL 75W90 SYNTHETIC OIL
s	CARRIER - REAR AXLE	150/151 SERIES (Tandem Mack Rear Axles up to 150,000lb GCW)
	TRACTION DIFFERENTIAL	INTERWHEEL DIFFERENTIAL LOCK, ALL REAR AXLES w/ INDEPENDENT SWITCHES
S	POWER DIVIDER LOCKOUT	INTERAXLE POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT
	REAR AXLE RATIO	3.96 RATIO
s	REAR SUSPENSION	SS38 MACK CAMELBACK MULTILEAF 38,000 lb, HEAVY DUTY
s	BOGIE SPREAD, REAR	50° AXLE SPACING (BOGIE WHEELBASE)
	TRANSVERSE TORQUE RODS, R SUSP	TRANSVERSE TORQUE ROD (REAR AXLE ONLY)
:	AUX.SPRING BRAKE QTY	AUX SPRING BRAKE QTY, 4 CHAMBERS
	BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+ (Total for QTY = 2)
	BRAKE, DRIVE, REAR	CAST IRON
	REAR BRAKE ADJ MANUFACTURE	HALDEX - AUTOMATIC (Total for QTY = 2)
	REAR BRAKE CHAMBER SIZE	REAR SPRING BRAKE CHAMBERS 30/30 TYPE
	BRAKE ORI REAR-MOST DRIVE AXLE	DRUM BRAKE CHAMBER ORIENTATION: High Mount - Rear of Axle - Chamber Down
	PARKING BRAKE CHAMBER	MGM TR3030LP3THD BRAKE CHAMBERS (Total for QTY = 2)
3	HUB MATERIAL, DRIVE	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT
3	ANTILOCK BRAKE SYSTEM	BENDIX WITH TRACTION CONTROL 4S4M
	BRAKE VALVE VERSION	BENDIX SWITCHES AND VALVES WHERE POSSIBLE
3	TRACTION CONTROL DISABLE (CA in PC29 only)	AUTOMATIC TRACTION CONTROL (ATC) FULL DISABLE SWITCH

FRAN	IE EQUIPMENT/FUEL TANKS	DESCRIPTION
	WHEELBASE	234'
	AF (OVERHANG)	75"
	FRAME RAILS & LINERS	8 x 90 x 300mm - (0.31" x 3.54" x 11.81")W/ Partial Liner; RBM 3,230,000 LB-IN
s	FRONT FRAME EXT. (BOLTED ON)	6" BOLT ON FRAME EXTENSION
s	FRONT FRAME LENGTH	FRONT FRAME LENGTH 725MM
S	CROSSMEMBERS	BOC AND INTERMEDIATE(S) STEEL HD BACK-TO-BACK CHANNEL
	AUX CROSSM. IN REAR OVERHANG	STEEL SINGLE CHANNEL (1)
s	REAR CROSSMEMBER OPTIONS	STEEL CLOSING REAR CROSSMEMBER
s	REAR FRAME TREATMENT	WITHOUT TAPERED FRAME RAIL ENDS
s	FRONT BUMPER	EXTENDED-SWEPT BACK-STEEL
s	CROSSMEMBER, BOGIE TYPE	BASIC SOLUTION TRUNNION BRACKET, STD HEIGHT
s	TOWING DEVICE, FRONT	HOOKS
s	FUEL LEVEL SENDER UNIT, LIQUID	BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK
s	FUEL TANK - LH	66 GALLON (250 L) 22" ALUMINUM, SLEEVED D-SHAPED
s	FUEL TANK - RH	W/O RH FUEL TANK
S	FUEL HOSES, LIQUID	BRAIDED HOSE
s	FUEL FILLER NECK OPTIONS	WITHOUT FILLER NECK SCREEN, WITH NON-LOCKABLE FUEL TANK CAP
	FUEL LINE OPTIONS, LIQUID	W/O FUEL LINE OPTION
s	CAB INSTEP VERSION	STANDARD 2 STEP CAB ACCESS
S	STEPS (BRIGHT) - FUEL TANK	STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS

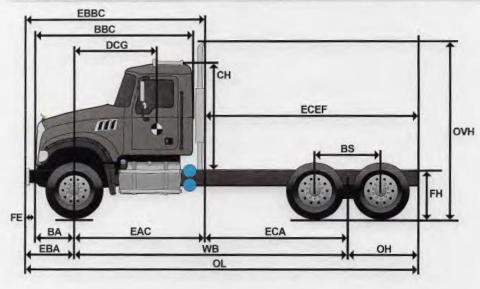
### TECHNICAL SPECIFICATION (cont.)



AIR/BR	RAKE	DESCRIPTION
S	AIRTANK DRAIN VALVE	MANUAL (PETCOCK) DRAIN VALVES ON ALL TANKS
S	AIRTANK MATERIAL	STEEL AIR TANK PAINTED CHASSIS COLOR
S	RELOCATE AIR RESERVOIRS	W/O RELOCATED AIR TANKS
S	PARKING BRAKE VALVE	SINGLE VALVE SYSTEM
ELECT	RICAL	DESCRIPTION
	BACK-UP ALARM	ECCO BACK-UP ALARM 575 CONSTANT SOUND LEVEL 107 dB
	DASH MOUNTED SWITCHES	TWO (2) EXTRA DASH MOUNTED ILLUMINATED SWITCHES
s	ROOF & SIDE MARKER LIGHTS	(5) TRUCKLITE CHROME BULLET ROOF MARKER & STANDARD MARKER / DIRECTIONAL SIGNAL
S	HEADLAMP BULB TYPE	HEADLAMP BULB TYPE, LED, HEATED
s	DAYTIME RUNNING LIGHTS	W/OVERRIDE SWITCH, PARK BRAKE & ENGINE RUNNING ACTIVATED
s	DRL OVERRIDE SPEED THRESHOLD	DRL OVERRIDE SPEED THRESHOLD 8 KMPH (5 MPH)
s	TAIL LAMPS	INCANDESCENT TAIL LAMPS
	WORK LIGHTS - CHASSIS MOUNTED	RH/LH LED WORK LIGHT (STEPS & GROUND) ON BOTH SIDES TRUCK
РТО		DESCRIPTION
s	PTO - REAR MOUNTED	mDRIVE Without PTO, Removable Block Off Plate
S	AMT/AUTOMATIC TRANS PTO FUNCT.	TRANSMISSION PTO FUNCTIONS BASIC
s	POWER TAKE OFF CONTROL	mDRIVE SINGLE PTO PREP KIT W/ ILLUMINATED DASH MOUNTED SWITCH & PIPING FOR LOCAL INSTALL
s	BODY BUILDER INTERFACE	BODY LINK III W/CAB PASS-THRU
SPECIA	ALTY FOUIPMENT	DESCRIPTION
	ALTY EQUIPMENT  LANE SUPPORT SYSTEM (LSS)	DESCRIPTION WITHOUT LANE SUPPORT SYSTEM
s	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE	DESCRIPTION WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE
s s	LANE SUPPORT SYSTEM (LSS)	WITHOUT LANE SUPPORT SYSTEM
s s s	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE
S S S CAB IN	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  (TERIOR (A THRU G)  SPEEDOMETER -& GAUGES - UNIT(s)	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION
S S S CAB IN	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE CAMERA, SURVEILLANCE  STERIOR (A THRU G) SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION U.S. UNITS (PREDOMINANT)
S S S CAB IN	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  (TERIOR (A THRU G)  SPEEDOMETER -& GAUGES - UNIT(s)	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)
S S S CAB IN	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE CAMERA, SURVEILLANCE  ITERIOR (A THRU G) SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only)	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT
S S S CAB IN	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE  GAUGE OIL TEMP-REAR AXLE  AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/*ATC* TEMP REGULATION
S S S CAB IN S	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  SPEEDOMETER -& GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT)  REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)  AUX. INCAB PNEUMATIC LINE CLEANOUT  BLEND AIR HVAC W/* ATC* TEMP REGULATION  CUPHOLDER
S S S S S S S S S S S S S S S S S S S	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/*ATC* TEMP REGULATION CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED
S S S S S S S S S S S S S S S S S S S	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  SPEEDOMETER -& GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/* ATC* TEMP REGULATION CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"
S S S S S S S S S S S S S S S S S S S	LANE SUPPORT SYSTEM (LSS)  DATA CAPTURE  CAMERA, SURVEILLANCE  ITERIOR (A THRU G)  SPEEDOMETER -&- GAUGES - UNIT(s)  OF MEASURE  GAUGE OIL TEMP-REAR AXLE  AUXILIARY PNEUMATIC OUTLET CAB  (CA family in PC29 only)  AIR CONDITIONING/HEATER  CUPHOLDER  DOME LAMP, INTERIOR  DASH INDICATOR - LAMP BODY OUT	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/*ATC* TEMP REGULATION CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED
S S S S S S S S S	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE CAMERA, SURVEILLANCE  SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR DASH INDICATOR - LAMP BODY OUT OF POS	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/*ATC* TEMP REGULATION CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED DASH MTD, INDICATOR BODY/HOIST UP *BODYBUILDER LAMP*
S S S S S S S S S	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE CAMERA, SURVEILLANCE  SPEEDOMETER -& GAUGES - UNIT(S) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR DASH INDICATOR - LAMP BODY OUT OF POS FIRE EXTINGUISHER	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/*ATC* TEMP REGULATION CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED DASH MTD, INDICATOR BODY/HOIST UP *BODYBUILDER LAMP* 5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD
S S S S S S S S S S S S S S S S S S S	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE CAMERA, SURVEILLANCE  SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR DASH INDICATOR - LAMP BODY OUT OF POS FIRE EXTINGUISHER FLOOR COVERING	WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT)  REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)  AUX. INCAB PNEUMATIC LINE CLEANOUT  BLEND AIR HVAC W/*ATC* TEMP REGULATION  CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED  DASH MTD, INDICATOR BODY/HOIST UP *BODYBUILDER LAMP*  5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD  POLYURETHANE FLOOR MAT WITHOUT REMOVABLE INSERTS
S S S S S S S CAB IN S	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE CAMERA, SURVEILLANCE  SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR DASH INDICATOR - LAMP BODY OUT OF POS FIRE EXTINGUISHER FLOOR COVERING	WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT)  REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)  AUX. INCAB PNEUMATIC LINE CLEANOUT  BLEND AIR HVAC W'*ATC* TEMP REGULATION  CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED  DASH MTD, INDICATOR BODY/HOIST UP *BODYBUILDER LAMP*  5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD  POLYURETHANE FLOOR MAT WITHOUT REMOVABLE INSERTS
S S S S S S S S S S S S S S S S S S S	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE CAMERA, SURVEILLANCE  SPEEDOMETER -&- GAUGES - UNIT(s) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR DASH INDICATOR - LAMP BODY OUT OF POS FIRE EXTINGUISHER FLOOR COVERING  INSTMNT CLUSTER LANGUAGE	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT) REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY) AUX. INCAB PNEUMATIC LINE CLEANOUT BLEND AIR HVAC W/* ATC* TEMP REGULATION CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP" 5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD POLYURETHANE FLOOR MAT WITHOUT REMOVABLE INSERTS  DESCRIPTION DEFAULT: ENGLISH, SPANISH, FRENCH ALL CHASSIS KEYED AT RANDOM W/O ELECTRONIC KEYLESS ENTRY
S S S S S S S S S	LANE SUPPORT SYSTEM (LSS) DATA CAPTURE CAMERA, SURVEILLANCE  SPEEDOMETER -& GAUGES - UNIT(S) OF MEASURE GAUGE OIL TEMP-REAR AXLE AUXILIARY PNEUMATIC OUTLET CAB (CA family in PC29 only) AIR CONDITIONING/HEATER CUPHOLDER DOME LAMP, INTERIOR DASH INDICATOR - LAMP BODY OUT OF POS FIRE EXTINGUISHER FLOOR COVERING  STERIOR (H THRU R) INSTMNT CLUSTER LANGUAGE KEY TYPES FOR DOORS	WITHOUT LANE SUPPORT SYSTEM WITHOUT DATA CAPTURE WITHOUT CAMERA  DESCRIPTION  U.S. UNITS (PREDOMINANT)  REAR AXLE OIL TEMP GAUGE IN DID (DRIVER INFORMATION DISPLAY)  AUX. INCAB PNEUMATIC LINE CLEANOUT  BLEND AIR HVAC W/* ATC* TEMP REGULATION  CUPHOLDER  (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED  DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"  5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD  POLYURETHANE FLOOR MAT WITHOUT REMOVABLE INSERTS  DESCRIPTION  DEFAULT: ENGLISH, SPANISH, FRENCH  ALL CHASSIS KEYED AT RANDOM

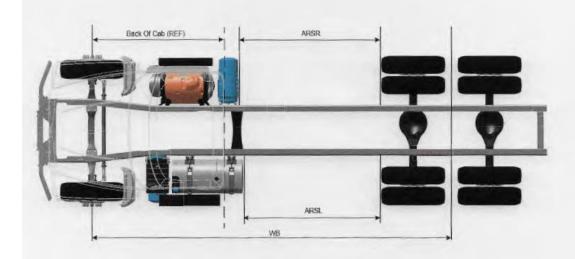


Description				
Front Frame Extension	N/A	FE	6.1	INCHES
Bumper to Front Axle	N/A	BA	29.0	INCHES
Eff. Bumper to Front Axle	N/A	N/A	35.1	INCHES
Wheelbase	N/A	WB	234.1	INCHES
Rear Overhang	N/A	OH	75.2	INCHES
Overall Length	N/A	OL	344.4	INCHES
Bumper to Back of Cab	N/A	BBC	116.5	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	134.1	INCHES
Eff. Cab to Rear Axle	N/A	ECA	135.0	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	99.0	INCHES
Eff. Cab to End of Frame	N/A	ECEF	210.2	INCHES
Unladen Frame Height	N/A	FH	43.4	INCHES
Cab Height	N/A	CH	70.9	INCHES
Overall Height	N/A	OVH	141.4	INCHES
Driver CG	N/A	DCG	70.9	INCHES
)* AXLE SPACING (BOGIE WHEELBASE)	GWXABX	BS	50.0	INCHES





Description				
Wheelbase	N/A	WB	234.1	234.1
Available Rail Space Right	N/A	ARSR	N/A	104.6
Available Rail Space Left	N/A	ARSL	85.6	N/A
Eff. Front Axle to Back of Cab	N/A	REF	99.0	99.0
Front Axle To Fender	CDX23X	N/A	35.4	35.4
Cleartech One Unit	DPF04F	N/A	0.0	48.0
Battery Box	393AA2	N/A	15.0	0.0
66 GALLON (250 L) 22" ALUMINUM, SLEEVED D- SHAPED / W/O RH FUEL TANK	288AF2 / 290AA1	N/A	44.6	0.0
Ad-Blue Tank	DF10O1	N/A	7.5	0.0
Drive Tire Radius	901AJ6	N/A	21.0	21.0

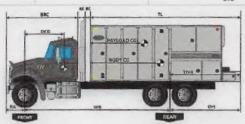


Top View image is intended for illustration purposes only and is not presented to scale. Wheelbase, Axle Spacing and After frame are not shown as specified, but are a representation. Customer Adaptation (CA) options and relocated components are not represented in these images. Most CA options impact the variation of the Image, thus an image may not populate. Calculations are approximate to a tolerance of ± 4 inches due to component mounting variation. Certain chassis component options are NOT represented in the Top View image, such as, but not exclusive to, Front Frame Extensions, Fuel Water Separators, Air Dryers, PTOs, Fifth Wheels, Chassis Fairings, Toolboxes, Trailer Connections. For further information on these items and their respective locations on your specification, please refer to the data sheets associated with those items in the configurator.



Inputs Required	DWGRef	Inputs	UOM
Driver(s) & Equipment Weight		201	LB
Total Body Length	TL	16.4	FEET
Body Tare Weight		3501	LB
Front of Body to Body CG	BODY CG	96.0	INCHES
Additional Clearance from Back of Exhaust to Front of Body	BC	6.0	INCHES

VEHICLE SPECIFICATION SUMMARY					
				NOM	
Bumper to Front Axle	N/A	BA	29.0	INCHES	
Wheelbase	N/A	WB	234.1	INCHES	
Rear Overhang	N/A	OH	75.2	INCHES	
Bumper to Back of Cab	N/A	BBC	116.5	INCHES	
BOC Exhaust Space	130AB6	N/A	11.5	INCHES	
Driver CG from Front Axle	N/A	DCG	70.9	INCHES	
First Pusher Axle Spacing			0.0	INCHES	



		Rear Axle		UON
Chassis	9282	8319	17600	LB
Driver	140	61	201	LB
Fuel	312	141	452	LB
Body/Trailer	494	3008	3501	LB
Total Tare	10227	11527	21754	LB
Payloads			-	
First Body Payload	4828	29420	34247	LB
Total - Lift Axles Down	15054	40947	56000	LB
GAWR	18000	38000	56000	LB

# ATTACHMENT C REFERENCE DISCLOSURE FORM

Firm shall provide information regarding experience in work similar to this scope of work by listing THREE (3) RECENT CLIENTS, ONLY ONE OF WHICH MAY BE A CATAWBA COUNTY GOVERNMENT LISTING. References should be clients of a similar scale as the services requested in this IFB.

1.	COMPANY NAME:		
	PERSON TO CONTACT:		
	TELEPHONE NUMBER:		
	EMAIL ADDRESS:		
	TYPE OF SERVICE PROVIDED:		
	SIZE:		
	JOB DATES: BEGINNING	END	
2.	COMPANY NAME:		
	PERSON TO CONTACT:		
	TELEPHONE NUMBER:		
	EMAIL ADDRESS:		
	TYPE OF SERVICE PROVIDED:		
	SIZE:		
	JOB DATES: BEGINNING	END	
3.	COMPANY NAME:		
	PERSON TO CONTACT:		
	TELEPHONE NUMBER:		
	EMAIL ADDRESS:		
	TYPE OF SERVICE PROVIDED:		
	SIZE:		
	JOB DATES: BEGINNING	END	