ST. CHARLES PARISH
PROCUREMENT

MATTHEW JEWELL
PARISH PRESIDENT

DAVID FERRARO
PROCUREMENT OFFICER

ST. CHARLES PARISH PROCUREMENT OFFICE

BID FORM

DELIVER TO:

ST. CHARLES PARISH
PRESIDENT'S OFFICE
PURCHASING OFFICE
3RD FLOOR (ROOM 3400)
P. O. BOX 302,
15045 RIVER ROAD,
HAHNVILLE, LA 70057
(985) 783-5000

ON-LINE - www.centralbidding.com

ITEM:

WESTERN STAR 4700SB W/VACTOR 2100i
CULVERT TRUCK – NEW AND CURRENT
OR APPROVED EQUAL

BID DATE: APRIL 08 , 2021

BID TIME: 11:00 A.M.

BID OPENING LOCATION:

ST. CHARLES PARISH
COURTHOUSE
COUNCIL CHAMBERS 2ND
FLOOR, 15045 RIVER ROAD
HAHNVILLE, LA 70057

DEPARTMENT: PUBLIC WORKS
AND/OR ST. CHARLES PARISH

PLEASE READ BID CAREFULLY!

LATE BIDS WILL NOT BE ACCEPTED

NOTE: ONLY BIDS IN INK WILL BE ACCEPTED. BIDS CONTAINING CORRECTIONS WILL BE DISQUALIFIED.

TERM OF CONTRACT: **Date of Award good through till December 31, 2021**

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. THIS BID PACKAGE MUST BE RETURNED IN ITS ENTIRETY. ALL BIDS SHALL BE PREPARED ON THE BID FORM AND RETURNED IN A SEALED ENVELOPE WITH THE APPROPRIATE BID ITEM(S) MARKED ON OUTSIDE OF ENVELOPE. BIDS MAY ALSO BE SUBMITTED ON-LINE AT www.centralbidding.com. ANY FEDERAL, STATE, AND/OR LOCAL LICENSE REQUIRED BY LAW FOR MAINTENANCE CONTRACTS AND, LABOR AND MATERIALS COMBINED MUST BE INCLUDED. LOUISIANA CONTRACTOR'S NUMBER MUST BE "VISIBLY" MARKED ON OUTSIDE OF ENVELOPE FOR ALL BIDS. FOR THE PROCUREMENT OF VEHICLES, **ALL DEALERS** SHALL INCLUDE A COPY OF A VALID DEALERS LICENSE ISSUED UNDER THE PROVISIONS OF RS 32:1254.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, material, operating supplies and/or equipment listed in this bid proposal. Items bid must meet or exceed specifications. All specifications are minimum allowable.

BONDS: Upon award, when applicable, all contracts with labor, and/or labor and material combined in excess of $25,000 will require a performance bond or a cashers check in the amount equal to 50% of the bid. Performance bonds do not apply to materials, supplies and services. Bonds shall be issued by a company licensed to do business in Louisiana and countersigned by a person who is under contract with the surety company or bond issuer as a licensed agent in the state and who is residing in this state.

NOT TO EXCEED LIMITS: Maintenance Projects that exceed $30,000.00 will be reviewed by the St. Charles Parish Procurement Office and reserves the right to obtain quotes or publicly bid any project which may be most beneficial to St. Charles Parish. Maintenance Projects where Federal Funds are dispersed should not exceed $250,000.

AWARD OF CONTRACT: ST. CHARLES PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of St. Charles Parish. Every bid shall be awarded to the LOWEST RESPONSIVE AND RESPONSIBLE BIDDER meeting specifications and at the same time, best fulfilling the needs of the St. Charles Parish Personnel. The Procurement Office will determine Award, informed by the department of equality of products and comparability to specifications.

In accordance with the provision of L.A R. S.38:2212.3, St. Charles Parish is authorized to reject the lowest bid if received from a bidder domiciled in a Communist Country, or if the materials or supplies are manufactured in a Communist Country, including but not limited to the Soviet Union, China, North Korea, and Vietnam, and to award the contract to the next lowest bidder, provided this Section shall not apply to any country having established trade relations agreements or approvals from the government of the United States.
Preference is hereby given to materials**,** supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state, in accordance with R.S. 38:2251.

EXCLUSIVE JURISDICTION and VENUE: For all claims arising out of or related to this agreement, Contractor hereby consents and yields to the exclusive jurisdiction and venue of the Twenty-Ninth Judicial District Court for the Parish of St. Charles and expressly waives any (A) pleas of jurisdiction based upon Contractor's residence and (B) right of removal to federal court based upon diversity of citizenship.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS:

USE OF BRAND NAMES: The following specifications have been prepared by our office setting forth those items deemed necessary by our personnel. Certain brand names and "or approved equal" according to R.S. 38:2212 are listed to indicate the minimum quality acceptable to the St. Charles Parish Personnel. They are not intended to be restrictive or discriminatory in any manner whatsoever. They are used to denote the quality standard of product desired and that they do not restrict bidders to the specific brand, make, manufacturer or specification named. Instead they are to be used only to set forth and convey the general style, type character and quality of the product. Any deviation from these specifications must be noted on the deviation sheet if applicable. If any item of equal quality is substituted, a Technical Specification of the item must be provided with the bid. Include brochures or other literature describing all required quality features. The brand name and stock number of certain bid items must be listed on the bid form as indicated or attached to bid form. Anticipated delivery time must also be stated for each item.

ORDERS: Order placement and order quantity will be determined by the St. Charles Parish Procurement Office on a "when and as needed" basis, when applicable or otherwise stated in specifications. Failure to insert delivery days, when called for on the quotation form, may be cause for rejection of the bid.

CANCELLATION OF CONTRACT: The St. Charles Parish Procurement Office must be informed of any inability to supply an order within that stated period. The Procurement Office reserves the right to cancel and place with another vendor, any order that cannot be supplied as per the time specified. Repeated inability to fill orders may result in cancellation of the order and/or disqualification of the bidder. The Procurement Office reserves the right to seek additional bids for special projects beyond their normal operations. After thirty (30) days from delivery of written notice to either St. Charles Parish or the Contractor without cause and without prejudice to any other right or remedy, may elect to abandon and terminate the agreement.

Any bids submitted which contains additions, alternate bid, or irregularities which may make the proposal ambiguous as to its meaning shall be rejected.

PRICES: St. Charles Parish is tax exempt. All prices for procurements by St. Charles Parish of supplies and materials shall be quoted in the unit measure specified and unless otherwise specified, shall be exclusive of state and parish taxes. All quotations shall be based on F.O.B. Destination Freight Prepaid, St. Charles Parish warehouse or job site, anywhere within the parish as designated by the Procurement Office.

When called for, prices are to include the furnishing of all material, equipment, tools, delivery and all other facilities, and the performance of all labor services necessary or proper for the completion of the work except as may be otherwise expressly provided in the detailed specifications. Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

CONTRACTING WITH MINORITY, WOMEN AND DISADVANTAGED FIRMS: St. Charles Parish encourages the participation of small businesses and businesses owned by Women and Minorities in the Parish's Procurement Activity.

In attempt to reach out to these firms we are sending our advertisements for bid to OMWBEwebadmin@OMWBHEW.gov>

INSURANCE REQUIREMENTS

The following are standard insurance requirements for St. Charles Parish projects. Please be advised that additional requirements and/or limits may be required for services identifies as having additional risks or exposures. St. Charles Parish reserves the right to modify, alter, add, remove, or change any portion of the insurance requirement prior to execution of a contract or issuance of a purchase order.
The successful company shall maintain full force and effect during the life of this agreement all insurance necessary to protect itself and Parish against claims for property damage or bodily injuries or death of person or persons, whether or not employed by bidder, which may arise from any cause in connection with the services to be performed herein. The following is a list of minimum insurance requirements which must be met:

1. Minimum Limits of Coverage are as follows**: Parish has the right to examine policies to assure coverages.**

- **Commercial General Liability**- $1,000,000 combined Single Limit per occurrence for bodily injury and property damage;

- Parish shall be added as additional insured on general liability;

- **Comprehensive Automobile Liability** – Bodily Injury Liability $1,000,000 each person: $1,000,000 each occurrence. Property Damage Liability $1,000,000 each occurrence. Must have coverage for loading & unloading. Auto Liability should include owned, hired and leased autos.

- **Worker's Compensation Insurance** – As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be $1,000,000 per occurrence when work is to be over water and involves maritime exposure to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than $500,000 per occurrence.

- The vendor would be required to have the appropriate Maritime/Jones Act insurance for projects in/on/over the waterway.

- Insurance policies shall be endorsed to provide for a waiver of subrogation in favor of St. Charles Parish. The certificate of insurance shall reference the waiver of subrogation endorsement;

- The Worker's Compensation Policy Territory Coverage Must include Louisiana

- **Deductibles** – No insurance required shall include a deductible greater than $50,000. The cost of the deductible is borne by the contractor. Company may be asked to disclose Deductible /SIR amounts.

- **Umbrella Liability/Excess Coverage** – An umbrella policy or excess may be used to meet minimum requirements provided it has the appropriate "drop down" coverage required. If the company subcontracts any portion of this order, it is required that he carry insurance in amounts stated above.

  Subcontractors shall submit a certificate of insurance certifying the above insurance coverage. The successful company also assumes full responsibility for all Federal and State Contributions for Unemployment Insurance, Workmen's Compensation, Disability Benefits Insurance, Federal Insurance Contributions Act Payments and Federal Withholding Tax of his employees.

- **BUILDER'S RISK –** *For construction and repair projects*
  The contractor shall maintain Builder's Risk Insurance Policy that covers the specific risks involved in the scope of work (subject to review and approval by the parish.)

2. Bidder agrees to indemnify and hold harmless St. Charles Parish, its officers and employees From any liability resulting indirectly or directly from the performance of the contract;

3. Certificate Holder shall read: St. Charles Parish; P.O. Box 302, Hahnville, LA

4. Vendors delivering flammable and/or toxic substances will require endorsement for Pollution Liability Coverage and meet all Federal, State, and Local laws applicable.

5. Insurance company must be authorized to do business in the State of Louisiana and have an AM best rating of at least AA-class/category VII;

6. Parish may request copies of the policy and/or sections of the policy for review;

7. It shall be the responsibility of Contractor to require that these insurance requirements are met by all contractors and sub-contractors performing work for and on behalf of contractor. Contractor shall further ensure the Parish is names as additional insured on all insurance policies provided by said contractor and/or sub-contractor through the duration of the project.

8. St. Charles Parish requires a 10-day notice of cancellation of policy.

I hereby certify that the BID price(s) listed above and/or attached have been carefully checked and are submitted as correct and final.

NAME OF FIRM	**AUTHORIZED SIGNATURE**	**DATE**
PHYSICAL ADDRESS	**PRINT NAME**	
P.O. BOX	**E-MAIL ADDRESS**	
CITY, STATE, ZIP	**TITLE**	
PHONE	**FAX**	

DUNS NUMBER:_____

ST. CHARLES HERALD GUIDE
BID PUBLISHED:
March 18, 2021
March 25, 2021

PLEASE READ BID CAREFULLY – LATE QUOTES WILL NOT BE ACCEPTED

NOTE: ONLY QUOTES IN INK WILL BE ACCEPTED. QUOTES CONTAINING CORRECTIONS WILL BE DISQUALIFIED.

BID SPECIFICATION

WESTERN STAR 4700SB W/VACTOR 2100i CULVERT TRUCK

OR APPROVED EQUAL

In order to avoid any uncertainty, bidder shall complete bidder section, any deviations shall have a description of item(s) bid, listing brand names and pertinent details of item. Failure to provide description on any specification listed on this bid document may result in bid being found non-responsive and therefore rejected. All deviations must be listed in the deviation section. If additional space is needed, deviations may be listed on a separate sheet and attached to the bid. Deviations of bid specifications may be grounds for bid rejection. Any items which are necessary to the proper operation of this equipment but are not mentioned here shall be included in bidder's proposal. All equipment shall be of current year model and design.

Specifications contained within shall be minimum allowable:

A.) WESTERN STAR 4700SB W/VACTOR 2100i CULVERT TRUCK

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
1.) Price Level					
	WESTERN STAR 4700 SB				
2.) Data Version					
	SPECPRO21 DATA RELEASE VER 002				
3.) Vehicle Configuration					
	4700 SET-BACK FRONT AXLE CHASSIS	9,215	6,480		
	2022 MODEL YEAR SPECIFIED				
	SET BACK AXLE - TRUCK				
	STRAIGHT TRUCK PROVISION, NON-TOWING				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	LH PRIMARY STEERING LOCATION				
4.) General Service					
	TRUCK CONFIGURATION				
	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)				
	UTILITY/REPAIR/MAINTENANCE SERVICE				
	GOVERNMENT BUSINESS SEGMENT				
	LIQUID BULK COMMODITY				
	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS				
	MAXIMUM 8% EXPECTED GRADE				
	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE				
	WESTERN STAR VOCATIONAL WARRANTY				
	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs.				
	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs.				
	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 66000.0 lbs.				
5.) Truck Service					
	SEWER/INDUSTRIAL VACUUM BODY				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	VACTOR				
6.) Engine					
	CUM L9 370 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM	-850	-70		
7.) Electronic Parameters					
	70 MPH ROAD SPEED LIMIT				
	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT				
	PTO MODE ENGINE RPM LIMIT - 1100 RPM				
	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED				
	PTO RPM WITH CRUISE SET SWITCH - 700 RPM				
	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM				
	PTO MODE CANCEL VEHICLE SPEED - 5 MPH				
	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND				
	NO FLEET SPEC FOR PARAMETERIZATION				
	PTO MINIMUM RPM - 700				
	REGEN INHIBIT SPEED THRESHOLD - 5 MPH				
8.) Engine Equipment					
	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 CONFIGURATION				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	VEHICLE IS SUBJECT TO EPA GHG21				
	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)				
	STANDARD OIL PAN				
	ENGINE MOUNTED OIL CHECK AND FILL				
	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED				
	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE				
	(3) DTNA GENUINE, FLOODED STARTING, MIN 2250CCA, 510RC, THREADED STUD BATTERIES	-10			
	BATTERY BOX FRAME MOUNTED	35			
	LH BATTERY BOX MOUNTED AS FAR AFT AS POSSIBLE, NO GREATER THAN 60 INCHES BACK OF CAB				
	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN				
	NON-POLISHED BATTERY BOX COVER				
	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2			
	LOW VOLTAGE BATTERY DISCONNECT AT 12.3 VOLTS FOR ISOLATED CIRCUITS WITH LOCAL ALARM				
	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	AIR COMPRESSOR DISCHARGE LINE				
	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM				
	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20			
	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE				
	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH				
	10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT				
	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP				
	13 GALLON DIESEL EXHAUST FLUID TANK	35	10		
	100 PERCENT DIESEL EXHAUST FLUID FILL				
	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING				
	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION				
	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD				
	HORTON 2-SPEED DRIVEMASTER ADVANTAGE POLAREXTREME FAN DRIVE				
	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED				
	CUMMINS SPIN ON FUEL FILTER				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	COMBINATION FULL FLOW/BYPASS OIL FILTER				
	FLEETGUARD PLAIN COOLANT FILTER	10			
	1300 SQUARE INCH ALUMINUM RADIATOR	-20			
	MOUNTING FOR FIREWALL MOUNTED SURGE TANK				
	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT				
	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT				
	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES				
	RADIATOR DRAIN VALVE				
	LOWER RADIATOR GUARD				
	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4			
	NO OIL PREHEATER				
	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR				
	ALUMINUM FLYWHEEL HOUSING				
	ELECTRIC GRID AIR INTAKE WARMER				
	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-35			
9.) Transmission					
	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-110	-35		
10.) Transmission Equipment					
	ALLISON VOCATIONAL PACKAGE 172 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES				
	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY				
	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY				
	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE				
	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE				
	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE				
	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE				
	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED				
	BODY LIGHTING POWER WIRED TO CUSTOMER INTERFACE CONNECTOR WITH SEPARATE STOP/TURN				
	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR				
	(2) CUSTOMER INSTALLED CHELSEA 280 SERIES PTO'S				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	PTO MOUNTING, LH AND RH SIDES OF MAIN TRANSMISSION				
	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN				
	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED				
	TRANSMISSION PROGNOSTICS - ENABLED 2013				
	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK				
	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK				
	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)				
11.) Front Axle and Equipment					
	MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	60			
	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES				
	NON-ASBESTOS FRONT BRAKE LINING				
	CONMET CAST IRON FRONT BRAKE DRUMS				
	FRONT BRAKE DUST SHIELDS	5			
	FRONT OIL SEALS				
	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL				
	STANDARD SPINDLE NUTS FOR ALL AXLES				
	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS				
	STANDARD KING PIN BUSHINGS				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	90			
	POWER STEERING PUMP				
	4 QUART POWER STEERING RESERVOIR				
	OIL/AIR POWER STEERING COOLER				
	STANDARD CUPS AND CONES (WHEEL BEARINGS) FRONT AND REAR				
	MINERAL SAE 80/90 FRONT AXLE LUBE				
12.) Front Suspension					
	20,000# FLAT LEAF FRONT SUSPENSION	50			
	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION				
	FRONT SHOCK ABSORBERS				
13.) Rear Axle and Equipment					
	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE		450		
	4.89 REAR AXLE RATIO				
	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING				
	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	60	60		
	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES				
	(1) INTERAXLE LOCK VALVE FOR TANDEM OR TRIDEM DRIVE AXLES				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH				
	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES				
	NON-ASBESTOS REAR BRAKE LINING				
	STANDARD BRAKE CHAMBER LOCATION				
	CONMET CAST IRON REAR BRAKE DRUMS				
	REAR BRAKE DUST SHIELDS		10		
	REAR OIL SEALS				
	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS				
	HALDEX AUTOMATIC REAR SLACK ADJUSTERS				
	MINERAL SAE 80/90 REAR AXLE LUBE				
14.) Rear Suspension					
	HENDRICKSON RT463 @46,000# REAR SUSPENSION		730		
	HENDRICKSON RT/RTE - 6.00" SADDLE				
	STANDARD AXLE SEATS IN AXLE CLAMP GROUP				
	54 INCH AXLE SPACING		10		
	STEEL BEAMS AND BRONZE CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS				
	FORE/AFT CONTROL RODS				
15.) Brake System					
	WABCO 4S/4M ABS				
	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES				
	FIBER BRAID PARKING BRAKE HOSE				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	STANDARD BRAKE SYSTEM VALVES				
	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE				
	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20			
	BENDIX OIL COALESCING FILTER FOR AIR DRYER				
	AIR DRYER MOUNTED INBOARD ON LH RAIL				
	LOCATE PER VACTOR DRAWING 504400R REV 0				
	STEEL AIR BRAKE RESERVOIRS				
	BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER ON ALL TANK(S)				
	METALLIC AIR MANIFOLD MOUNTED TO BACK OF CAB CROSSMEMBER WITH SIX 1/4 INCH FITTINGS AND 70 PSI PROTECTION VALVE				
16.) Wheelbase & Frame					
	6600MM (260 INCH) WHEELBASE				
	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	670	-210		
	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	245	426		
	1800MM (71 INCH) REAR FRAME OVERHANG				
	FRAME OVERHANG RANGE: 71 INCH TO 80 INCH	-30	120		
	24 INCH INTEGRAL FRONT FRAME EXTENSION	122	-10		
	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 196.54 in				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 193.54 in				
	CALC'D FRAME LENGTH - OVERALL : 400.35				
	FRAME HEIGHT TOP FRONT UNLADEN : 43.55 in				
	FRAME HEIGHT TOP FRONT LADEN : 40.0 in				
	FRAME HEIGHT TOP REAR UNLADEN : 43.05 in				
	FRAME HEIGHT TOP REAR LADEN : 40.81 in				
	CALCULATED FRAME SPACE LH SIDE : 95.43 in				
	CALCULATED FRAME SPACE RH SIDE : 222.24 in				
	CALC'D SPACE AVAILABLE FOR DECKPLATE : 196.69 in				
	SQUARE END OF FRAME				
	STANDARD WEIGHT ENGINE CROSSMEMBER				
	STANDARD CROSSMEMBER BACK OF TRANSMISSION				
	STANDARD MIDSHIP #1 CROSSMEMBER(S)				
	STANDARD REARMOST CROSSMEMBER				
	HEAVY DUTY SUSPENSION CROSSMEMBER		10		
	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER				
17.) Chassis Equipment					

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-110			
	FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS				
	GRADE 8 THREADED HEX HEADED FRAME FASTENERS				
	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE				
	D15-16004-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON FRAME WEB				
	DRILLING PREP FOR VACTOR PER DRAWING 504 400R, REVISION A, DATED 10/31/2018				
18.) Fuel Tanks					
	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20			
	25 INCH DIAMETER FUEL TANK(S)				
	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS				
	FUEL TANK(S) FORWARD				
	PLAIN STEP FINISH				
	FUEL TANK CAP(S)				
	DAVCO 245 FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	20			
	EQUIFLO INBOARD FUEL SYSTEM				
	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE				
	FUEL COOLER MOUNTED LEFT HAND IN RAIL				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	LOCATE PER VACTOR DRAWING 504400R REV 0				
19.) Tires					
	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196			
	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES		120		
20.) Hubs					
	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS				
	CONMET PRESET PLUS PREMIUM IRON REAR HUBS				
21.) Wheels					
	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-8			
	ALCOA LVL ONE 88267X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-224		
	POLISHED FRONT WHEELS; OUTSIDE ONLY				
	POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY				
	FRONT WHEEL MOUNTING NUTS				
	REAR WHEEL MOUNTING NUTS				
22.) Cab Exterior					
	110 INCH BBC STEEL CONVENTIONAL CAB				
	WESTERN STAR PAINTED ALUMINUM CAB SKIRT				
	AIR CAB MOUNTS WITH CHECK VALVE				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	RACEWAY WITHOUT MISCELLANEOUS CUSTOM CAB REQUIREMENTS				
	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE				
	FRONT FENDERS				
	2 INCH FENDER EXTENSIONS	5			
	LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERTS AND RH INTERIOR GRAB HANDLE MOUNTED TO A POST				
	STATIONARY BRIGHT FINISH GRILLE				
	CHROME HOOD MOUNTED AIR INTAKE GRILLE				
	GALVANEALED STEEL SEVERE SERVICE CAB				
	FIBERGLASS HOOD				
	HOOD OPENING ASSIST				
	DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB				
	DUAL ELECTRIC HORNS				
	DOORS AND IGNITION KEYED THE SAME (3 KEYS)				
	REAR LICENSE PLATE MOUNT END OF FRAME				
	SINGLE RECTANGULAR H4 HALOGEN HEADLIGHTS WITH BRIGHT BEZELS				
	LED MARKER LAMPS				
	INTEGRAL STOP/TAIL/BACKUP LIGHTS				
	STANDARD FRONT TURN SIGNAL LAMPS				
	DUAL WEST COAST STAINLESS STEEL HEATED MIRRORS WITH LIGHTS AND LH AND RH REMOTE				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	DOOR MOUNTED MIRRORS				
	102 INCH EQUIPMENT WIDTH				
	LH AND RH 8 INCH STAINLESS STEEL CONVEX MIRRORS MOUNTED BELOW PRIMARY MIRRORS				
	RH DOWN VIEW MIRROR				
	STANDARD SIDE/REAR REFLECTORS				
	ELECTRIC DOOR LOCKS, MECHANICAL KEY TUMBLER				
	STAINLESS STEEL EXTERIOR SUN VISOR	28			
	17.5X35 INCH TINTED REAR WINDOW				
	TINTED DOOR GLASS				
	RH AND LH ELECTRIC POWERED WINDOWS	4			
	LOWER RH DOOR WINDOW WITH FRESNEL LENS	7			
	2-PIECE ROPED-IN WINDSHIELD GASKET MOUNTED				
	2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL				
23.) Cab Interior					
	GRAY VINYL BASE INTERIOR				
	BLACK HARD TRIM				
	BASE LEFT HAND DOOR TRIM				
	BASE RIGHT HAND DOOR TRIM				
	BLACK MATS WITH SINGLE INSULATION				
	NO DASH MOUNTED ASH TRAY, POWER RECEPTACLE IN LIEU OF LIGHTER				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	FORWARD ROOF MOUNTED CONSOLE				
	LH AND RH DOOR MAP POCKETS				
	(2) COAT HOOKS ON BACKWALL OF CAB				
	NO CUP/THERMOS HOLDER				
	TWO-TONE CHARCOAL UPPER/COOL GRAY LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER				
	WIRING FOR PCB BASED ARCHITECTURE AND VO CATIONAL OPTIONS				
	5 LB. FIRE EXTINGUISHER	10			
	HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT TEMPERATURE CONTROL AND COSMETIC COVER				
	HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER				
	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH				
	STANDARD HEATER PLUMBING				
	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR				
	RADIATOR MOUNTED AIR CONDITIONER CONDENSER				
	BINARY CONTROL, R-134A				
	CAB INSULATION				
	AUTOMATIC SELF-RESET CIRCUIT BREAKERS/FUSES IN DASH POWER DISTRIBUTION BOXES AND FUSES IN AUXILIARY POWER DISTRIBUTION BOXES				
	DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	LH AND RH ELECTRIC DOOR LOCKS				
	(1) 12 VOLT POWER SUPPLY AND (2) USB PORTS MOUNTED IN DASH				
	TRIANGULAR REFLECTORS KIT WITHOUT FLARES SHIPPED LOOSE IN CAB	10			
	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND REAR CUSHION TILT				
	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND REAR CUSHION TILT	25	10		
	BLACK SUSPENSION COVER FOR AIR DRIVER SEAT	2			
	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8			
	BLACK MORDURA CLOTH DRIVER SEAT COVER				
	BLACK MORDURA CLOTH PASSENGER SEAT COVER				
	3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS				
	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN				
	4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH SWITCHES				
	DRIVER AND PASSENGER INTERIOR SUN VISORS				
24.) Instruments & Controls					

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	NON-ADJUSTABLE SUSPENDED PEDALS				
	ELECTRONIC ACCELERATOR CONTROL				
	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK				
	BRIGHT ARGENT FINISH GAUGE BEZELS				
	BLACK VINYL DRIVER INSTRUMENT PANEL				
	BLACK VINYL CENTER INSTRUMENT PANEL				
	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM				
	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES				
	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS				
	97 DB BACKUP ALARM		3		
	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES				
	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY				
	ICU4ME DRIVER MESSAGE CENTER WITH GRAPHICAL DISPLAY, BLACK FACE GAUGES, DIAGNOSTICS AND DATA LINKED				
	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH				
	2 INCH ELECTRIC FUEL GAUGE				
	ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT				
	CUSTOMER INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH CAPS				

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR				
	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE				
	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE				
	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER				
	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS				
	ELECTRIC ENGINE OIL PRESSURE GAUGE				
	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10			
	ROOF/OVERHEAD CONSOLE MOUNTED RADIO				
	(4) RADIO SPEAKERS IN CAB				
	POWER AND GROUND WIRING FOR CB RADIO IN OVERHEAD CONSOLE				
	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION				
	MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM				
	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER				
	STANDARD VEHICLE SPEED SENSOR				
	ELECTRONIC 3000 RPM TACHOMETER				
	NO VEHICLE PERFORMANCE MONITOR	-5			
	IGNITION SWITCH CONTROLLED ENGINE STOP				

Data Code	Description	Weight Front	Weight Rear	Meets	Deviates
	ONE EXTRA SWITCH IN DASH				
	HARDWIRE SWITCH #1,ON/OFF LATCHING, 20 AMPS BATTERY WIRED TO CUSTOMER INTERFACECONNECTOR				
	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY				
	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY				
	CAB/TRAILER MARKER LIGHT SWITCH WITH SEPARATE HEADLIGHT SWITCH WITH HEADLIGHT/MARKER LIGHT INTERRUPTER SWITCHES ON STEERING WHEEL				
	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR				
	MANUAL TURN SIGNAL SWITCH, HEADLAMP HIGH/LOW AND FLASH, WASH/WIPE/INTERMITTENT				
	PACIFIC INSIGHT ELECTRONIC FLASHER				
25.) Design					
	PAINT: ONE SOLID COLOR				
26.) Color					
	CAB COLOR A: L0006EY WHITE ELITE EY				
	CAB INTERIOR PAINTED SAME AS CAB COLOR				
	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT				
27.) Certification / Compliance					

Data Code	Description	Weight Front	Weight Rear	Meets /Deviates	
	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS				
28.) Secondary Factory Options					
	CORPORATE PDI CENTER IN-SERVICE ONLY				
	DEALER HAS BEEN ADVISED OF AND ACCEPTED RESPONSIBILITY FOR MODIFICATIONS DUE TO POSSIBLE PTO/CHASSIS INTERFERENCE				
29.) Raw Performance Data					
	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 193.54 in				
	CALC'D SPACE AVAILABLE FOR DECKPLATE : 196.69 in				

30.) Weight Summary

	Weight Front	Weight Rear	Total Weight	Meets/Deviates	
Factory Weight+	9810 lbs.	7890 lbs.	17700 lbs.		
Total Weight+	9810 lbs.	7890 lbs.	17700 lbs.		

31.) Extended Warranty

TOWING: 2 YEARS/UNLIMITED MILES/KM EXTENDED
TOWING COVERAGE $550 CAP FEX APPLIES

B.) DETAILED SPECIFICATIONS

FOR

Combo Jet/Vac Truck

		MEETS	
		YES	NO
1.0	**INTENT**		
1.01	The intent of this specification is to provide for the purchase or lease of one (1) new and unused single engine combination sewer and catch basin cleaner used for removing all debris commonly found in storm basins and leads and/or sanitary sewer lines and manhole structures using a front mounted operating station. The unit shall consist of a centrifugal compressor vacuum system, a hydraulically driven high pressure water pump, an enclosed sealed body for storage of collected debris and equipped with a self-contained water supply as the source for the water pump system. The unit shall have the capability of operating both vacuum and water system simultaneously at full operating speeds continuously. The Centrifugal Compressor system shall be powered by a hydrostatic drive system.		
2.0	**EQUIVALENT PRODUCT**		
2.01	Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the Purchasing and Public Services Director.		
2.02	Bidder shall demonstrate a reasonable likeness of the equipment being offered within a reasonable time of request. Equipment demonstrated shall be equipped with all accessories and components required in this specification to ascertain equivalence.		
2.03	A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.		
4.0	**SERVICE AND SUPPORT**		
4.01	Location of warranty service center and amount of inventory shall be noted which may be verified and inspected.		
4.02	Amount of OEM parts at this facility: $		
5.0	**GENERAL**		
5.01	The specification herein states the minimum requirements of St. Charles Parish. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. Any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable St. Charles Parish to make a reasonable determination of compliance to the specification will be considered "non-responsive" and grounds for rejection.		
6.0	**SUBFRAME**		
6.01	The equipment shall be of modular design consisting of vacuum system, water tanks system, debris body and drive system.		
6.02	A sub frame shall be fabricated to the exact dimensions of the truck chassis for mounting of modular components.		
6.03	All components of the module shall attach to the sub frame and not directly to the chassis.		
6.04	Sub frame shall be designed to ASME standards for maximum applied loads, chassis frame movement and even distribution of weight to the chassis and suspension.		
6.05	Sub frame shall be continuous and uninterrupted from back of cab to end of frame.		
7.0	**DEBRIS BODY**		
7.02	The body shall be cylindrical having a minimum usable liquid capacity of 12 cubic yards.		
7.03	The body shall be capable of high dump height of 60". Dump height of 60" must be achieved without the use of scissor lift mechanism.		
7.04	The debris storage body shall be constructed with a minimum 1/4" corrosion and abrasion resistant Ex-Ten steel.		
7.05	The debris storage body shall have a minimum yield point of 50,000 PSI and a minimum tensile strength of 70,000 PSI.		

7.06	Body shall have a rear door that is hinged at the top and is equipped with a replaceable neoprene type seal. Adjustable for periodic compensation of door seal wear.		
7.07	Dual outward mounted rear door props shall be included as standard to prevent operator from entering door swing path when engaging rear door prop.		
7.08	For optimal particulate separation, vacuum shall be drawn from separate ports in the top rear of the debris body.		
7.09	Body shall be dumped by raising the body to a 50 degree angle utilizing a forward mounted, double acting hydraulic dump cylinder.		
7.10	Dump controls, accessory controls, e-stop control shall be provided at a central curb side location directly behind the cab of the truck on the passenger side.		
7.11	For stability and safety, dumping must be accomplished while the pivot point of the body remains fixed to the subframe.		
7.12	Industrial style rear debris body door shall be flat, and shall open and close hydraulically by cylinders mounted at the top of the body. Door shall open 50 degrees from the fully closed position. Door shall be unlocked, opened, closed, and locked by a failsafe hydraulically activated sequential positive locking system, cam operated by a single hydraulic cylinder, with all controls located behind truck cab, forward of the debris body, so operator is not subject to sewage when dumping.		
7.13	Debris body shall have a body flush out system with a fan-type spray nozzle located in the front wall of the debris body to aid in the flushing of heavy debris. The nozzle shall also utilize (2) spray nozzles to flush the front most area of the debris body. System must produce a flow of 80GPM. Control valve shall be on the curb side of the unit.		
7.16	Body shall have a float type automatic shut-off system protecting the Fan System with (2) 10" stainless steel shut-off balls located in the debris body. Each float ball housing shall be within a non-corrosive slide-out screen assembly and be accessed without the use of tools.		
7.18	The debris body shall be equipped with a rear door drain to drain off excess liquids while retaining solids and shall include a manually operated 6" knife valve with cam-lock coupler and 25' of lay flat hose having camlock quick connects.		
7.27	(4) Dual vertical (cyclone) centrifugal separators shall be installed in-line between the debris body and the air mover, (2) per side for each debris body discharge port. Each dual separator shall include large fallout chamber cleanout door.		
7.31	A fixed rear door mounted 2-pipe rack shall be provided. Shall include quick release retainer handles (no bungees or clamps).		
7.32	(2) Pipe Storage Racks on rear door with quick releases and (2) Pipe Storage Racks Curbside waist level.		
7.35	A lubrication manifold system shall be provided to allow ground level greasing of boom lift and swing cylinders, float level indicator, top rear door hinges and debris body hoist cylinder pins.		
7.36	A plastic lube chart shall be provided to call out when specific points on the unit should be greased.		
7.38	A 10" valve with 2" vent to atmosphere, electrically activated, air operated valve debris body vacuum relief system shall be located in the inlet of the vacuum system to allow the venting of the tank and relieve vacuum at the debris intake hose.		
7.39	A debris inlet deflector distributing load evenly in debris body shall be included.		
8.0	**WATER TANKS**		
8.01	The water tanks shall be manufactured from a non-corrosive material to prevent rust yet still provide for maximum strength.		
8.02	The water tank material shall require no internal coating and shall be repairable if patching is required.		
8.03	The water tanks shall be easily removed from the subframe to provide complete access to the truck chassis for maintenance purposes.		
8.04	The water tanks shall be adequately vented and connected to provide complete filling.		
8.05	The water tanks shall be totally separate from the debris tanks and provide no structural support.		
8.06	The water tanks shall share no common walls with the debris tanks to prevent corrosion.		
8.07	The water tanks shall come equipped with an anti-siphon device and 25' of hydrant fill hose and fittings.		

8.08	The water tanks shall carry a 10 year warranty against corrosion or cracking.		
8.09	All water tanks shall be fully baffled to form a maximum compartment storage of 150 gallons for each compartment. St Charles Parish has determined that for the stability of the vehicle when turning and stopping and for safety of personnel that systems baffled at 150 maximum gallon compartments are preferred. Exceptions of requirement shall be explained in detail accompanied with detailed engineering drawings.		
8.10	The water tank shall be located for the lowest possible center of gravity while providing 100% gravity flooded intakes to water pump.		
8.11	Fresh water shall enter the tanks through an in line 6" air gap, all aluminum covered anti-siphon device.		
8.12	Water level sight tubes of non-yellowing plastic shall be installed on both tanks.		
8.13	The sides of these water tanks shall not extend more than 48" out from the centerline of the truck chassis.		
8.14	A fresh water drain system shall be provided to completely drain the fresh water system from one location utilizing the 3" Y-strainer on the pump.		
8.15	A minimum 6" connection between tanks shall be provided.		
8.16	For stability safety, the water tanks shall not elevate with debris body during dump cycle.		
8.17	A low water alarm with indicator on control screen shall alert operator when water storage has reached an operator set remaining water level.		
8.21	An air purge system utilizing the chassis air system shall be provided to assist displacing of residual water out of the high-pressure water system. System shall utilize the truck chassis air compressor to fill a 13-gallon auxiliary air storage chamber with pressure gauge and pressure protection valves to isolate the holding tank from the chassis compressor. System shall be equipped with ball valve and all necessary high pressure piping hoses, couplings and controls.		
8.23	A 3 in-line "Y" trap strainer shall be located at inlet of water tank fill air-gap.		
8.24	A 3 in-line "Y" trap stainless steel strainer shall be located between the water cells and water pump.		
8.25	A 3" Gate Valve shall be provided at water pump.		
8.26	Water tank must be a certified metered capacity of 1500 gallons. Certification shall be necessary upon delivery.		
8.27	Water tanks shall be constructed of 1/8" aluminum with baffled compartments maximum 150 gallons each.		
8.31	Liquid Float Level Indicator shall be provided.		
9.0	**WATER PUMP SYSTEM**		
9.01	For most efficient use of horsepower and reduced fuel consumption, high pressure rodder pump shall be hydraulically driven via (2) variable displacement pumps		
9.02	Hydraulic powered rodder pump via (2) variable displacement hydraulic pumps utilizing (2) 10-bolt PTO's.		
9.03	High pressure water pump shall be rated capable of continuous delivery of 80 GPM at 2500 PSI (submit manufacturer support documentation).		
9.04	High-pressure water (rodder) pump system shall be completely controlled through the range with use of the MultiFlow Control and throttle located on the control panel.		
9.05	Digital flow meter shall be displayed in front LCD display. Flow meter shall be capable of displaying system flow in all pump operating modes. In addition, a low water alarm shall be provided.		
9.06	Water pump speed to remain fully adjustable via an independent operator input regardless of the selected vacuum drive speed.		
9.07	Variable flow systems routing water back-to-tank are not considered equal due to additional wear, horsepower and fuel consumption. Any deviation from this drive requirement should have full explanation of horsepower consumption.		
9.08	Water (rodder) pump shall include smooth and pulsation operation mode feature without altering pump flow.		
9.09	When required to assist nozzle breaking through obstructions, water pump "pulsation mode" shall provide a forward-acting nozzle surge. Pulsation surge wave shall allow nozzle to punch forward 2" to 18" depending on flow dynamics and length of hose in sewer pipe.		

9.10	Explanation of forward-acting pulsation method shall be submitted with bid or explained below. Systems that require the use of air induction into the water pump shall not be accepted.		
9.11	Water pump location shall provide a flooded gravity suction inlet to eliminate potential cavitation damage.		
9.12	An oil to water heat exchanger will be provided in the water system to cool all hydraulic fluids on the unit.		
9.13	The water pump shall provide precise 0-80 GPM controlled flow at variable pressure up to 2500 PSI.		
9.15	A hydro-pneumatic nitrogen charged accumulator system shall be provided with all control valves, piping and hoses for either continuous flow or jackhammer rodding. Accumulator shall be a 2.5 gallon capacity and 1000 to 2500 PSI pressure rating.		
9.16	Two (2) 1/2" high pressure ball valves shall be provided for draining the water pump and flushing sediment from the bottom of the pump.		
9.17	A nozzle rack accommodating (3) nozzles shall be provided in curbside toolbox. The nozzles shall be labeled on storage rack for pipe size/flow and application.		
9.18	System shall be relieved to protect operator.		
9.19	Handgun shall be supplied that allows for changing of flow pattern from a fine mist to a steady stream.		
9.20	Handgun shall come equipped with quick connect couplers.		
9.21	An additional 1" water relief valve shall be provided.		
9.22	A mid-ship quick disconnect handgun couplers shall be provided.		
9.24	Hydro-Excavation Package - Includes Lances, Nozzles, and Vacuum Tubes. Water system shall allow precise variable flow control range of 0-22 GPM at 2500 PSI with digital flow meter in clear view of adjustment control.		
9.25	A water pump hour meter shall be provided.		
9.29	A high-pressure hose reel capable of operating at system pressure shall be provided.		
10.0	**VACUUM/VACUUM DRIVE SYSTEM**		
10.01	Vacuum shall be provided by compressing air within a single stage 38" diameter centrifugal fan.		
10.02	Compressor fan constructed of non-corrosive material.		
10.03	Centrifugal compressor fan shall be constructed of non-corrosive, hardened chrome blades.		
10.04	Centrifugal compressor shall be warranted against corrosion for five years.		
10.05	The outer housing shall be constructed of 1/4" spun steel.		
10.06	Compressor housing shall be equipped with a drain not exceeding 2" diameter.		
10.07	Complete compressor and housing assembly shall be warranted against materials and workmanship for five years.		
10.08	Transfer case shall be activated by air via a one touch control located in cab with animated confirmation on screen.		
10.09	The compressor Hydrostatic Drive system shall utilize electronic controls located at the front operator station. The system shall be controlled on/ off with a switch that may be engaged or disengaged at any operating speed.		
10.10	The compressor controls will have a speed selection switch at the operator station to control compressor speed; manual levers on the hydrostatic pump to control compressor speed will not be accepted.		
10.10	The centrifugal compressor should be driven direct through a helical gear type step-up transmission drive with a step-up ratio 2 to 1.		
10.14	Hydraulic shut off valves shall be provided at the suction, return and filter lines to permit servicing of the hydraulic system.		
10.15	The drive shaft shall be supported via ball bearings and gears.		
10.16	Compressor shall be driven from a closed loop hydrostatic drive system utilizing available chassis power via split-shaft transfer case. The transfer case shall drive a variable displacement hydrostatic pump to energize a closed loop.		
10.17	The pump shall be mounted directly to the split shift transfer case. The pump will have a B10 life Rating of 10,000 hrs. continuous duty.		
10.18	The hydraulic motor powering the compressor shall be a bent axis, bi-directional motor. Motor speed shall not exceed 2,500 RPM.		
10.19	The hydrostatic drive system shall utilize electronic soft start speed control to manage ramping speed.		

10.20	The control system shall provide a mode selection switch to control the compression drive in low vacuum, combination mode and full vacuum settings.		
10.21	The gear drive should attach directly to the rotor shaft without the use of multiple stage V-belts or jack shafts.		
10.22	The gears and bearings shall be lubricated with splash lubrication system, requiring no manual greasing.		
10.23	The drive system shall not utilize pillow block bearings that require excessive daily greasing.		
11.0	**VACUUM BOOM SYSTEM**		
11.01	Vacuum hose shall be designed for front operation with hose mounted and stored at front mounted work station. The hose must also allow for transport with a 5' catch basin tube attached for quick set-up. The hose must also be able to be transported fully retracted to eliminate any obstruction to a drivers view of the road. A front mounted location is required for ease of positioning vacuum hoses well as minimizing need for operator to swing hose into traffic.		
11.02	All connections between debris body and vacuum system will be of the self-adjusting pressure fitting type.		
11.03	Vacuum hose will remain stationary and not rise with debris body.		
11.05	A sub-frame mounted cab guard shall be mounted behind cab with boom rest cradle.		
11.06	All vacuum pipes shall be connected to vacuum pick up tube and extension pipes by adjustable over-center quick clamps to join the aluminum flanges on pipes.		
11.07	One (1) quick clamp for each pipe supplied shall be provided.		
11.08	Boom pedestal shall be directly mounted to module subframe.		
11.09	Boom support used for travel mode shall not interfere with access or require removal to tilt hood forward.		
11.10	A control station shall be equipped with a control joystick for all directions as well as a safety emergency shut-down button, which shall automatically eliminate power to boom.		
11.11	The vacuum boom shall have a heavy-duty flexible hose assembly joining the transition pipe to the debris body make break, and a 7" heavy duty hose at the suction end of the boom.		
11.12	Boom shall rotate 180 degrees and shall be operated by an electric over hydraulic system. Lift and swing movements shall be actuated by hydraulic cylinders.		
11.13	The 10x15 RDB style hydraulic telescopic boom with 180 degree rotation shall be located at the front work station in its retracted position, providing 282" minimum reach off the longitudinal axis of unit, providing a boom work area will be 850 square feet. The moving boom hose shall be 7" x 279" with yellow liner for durability. The boom hose shall hydraulically telescope a minimum of 10 feet forward from the operator's station storage position and shall have the ability to extend the hose downward 15’ vertically without activating the hydraulic up/down function.		
11.15	A joystick for hydraulic control of the boom shall be installed on hose reel front panel.		
11.16	A grate lifting hook shall be installed on the boom.		
11.18	A removeable 4" diameter storage "Post" to stabilize the lower boom hose during transport. Storage device shall not interfere with raising hood.		
11.19	A cordless remote boom control system equipped to activate boom functions, throttle, water pump on/off, hose reel in/out, hose reel speed, vacuum relief on/off and emergency disengagement e-stop shall be provided.		
11.20	A rotatable inlet hose for telescopic/extendable boom shall be provided.		
11.21	A detailed engineering drawing must be supplied showing the relationship of the hose reel in relation with the vacuum boom range of motion. Drawing shall show module mounted on chassis, full arc of vacuum hose both retracted and extended, full rotation of arc for hose reel in the extended position and dimension all arc lengths of vacuum boom retracted and extended. Drawing shall highlight intersection areas whereby combination cleaning is possible (within full arc on telescoping boom system).		
12.0	**HOSE REEL**		
12.01	Hose reel assembly shall be direct frame mounted.		
12.02	Hose reel assembly shall be mounted on an independent frame that can be removed from brackets attached permanently to front of main truck frame members.		
12.03	Reel will be manufactured out of 1/4" spun steel for added structural strength and shall require no internal or external reinforcements that could damage rodder hose.		

12.04	Hose reel shall be driven by adjustable gear reduction chain and sprocket assembly.		
12.05	Hose reel shall operate at full rotational speed while chassis engine is at idle.		
12.06	Hydraulic Telescoping Rotating Hose Reel - 800' capacity of 1" hose shall be provided.		
12.07	The front mounted hose reel shall telescope 15" forward down centerline of truck.		
12.08	Entire reel assembly shall rotate 270 degrees on a large diameter ball bearing.		
12.09	Hose reel shall include a dual locking device to positively lock reel in any position across operating range.		
12.10	The hose reel shall rotate about the reel assembly centerline so the reel shall never extend beyond the truck width. Reel coverage diagram shall be submitted with bid.		
12.11	Controls shall accessible on both sides of the hose reel via a mounting station for the belly pack wireless remote control, allowing operator to work at either side of unit for safety purposes.		
12.12	400' x 1" Piranha Sewer Hose / 2500 Psi shall be provided		
12.14	An automatic hose level wind scroll device shall be supplied. An air-cylinder actuated pinch-roller shall exert downward pressure across full width of reel to retain hose on reel when encountering nozzle blockages.		
12.15	An air-cylinder actuated pinch-roller shall exert downward pressure across full width of reel to retain hose on reel when encountering nozzle blockages. Pinch roller must be activated via a one touch, backlit button with lighted feedback on the control panel.		
12.18	Digital footage counter displaying footage values shall be provided. System must be capable of resetting value to ensure operator safety. Footage must be accuracte to within one percent of actual distance, Large Easy To Read Lcd Screen located on the 7” front control panel screen.		
12.22	10' Leader Hose provided		
14.0	**WASHDOWN EQUIPMENT**		
14.02	A handgun with 1/2" x 35' hose shall be provided at mid-ship to which allow the operator to deliver water to area served by pick up hose and to the inside of the debris body for clean out.		
14.03	Hand sprayer with adjustable spray-pattern to be provided with trigger-style gun.		
16.0	**FRONT OPERATING STATION AND CONTROLS**		
16.01	Primary operator station will be located at front of hose reel.		
16.02	All operator controls should be located on a single control panel that can be rotated on a 90 degree arc for an operator customizable location. The control panel shall also feature the ability to raise and lower through a range of not less than 8” to accommodate operators of different height.		
16.03	Station shall include a 7” Touch enabled display screen with corresponding tactile buttons for reading critical machine data including (hose footage, hose reel speed settings, water pressure, water flow, Air mover information, chassis data, mode indicator, chassis fuel level, and diagnostic controls), Back lit button keypads with, laser etched function icons, and 4 light feedback indicators. These buttons shall operate the following functions: All setup functions (remote/panel selector, work lights, hose reel extend/retract, hose reel lock, and pinch roller activation) and Vacuum functions. Additionally, there will be separate sealed rocker switches for Water Pump on/off and Throttle up/down. There shall be a multi flow control dial for controlling the full range of the water pump.		
16.03	There shall be a hose reel joystick to control the pay in and pay out of the hose reel, this joystick shall offer speed control that increases the further the joystick is moved in either direction. There shall be an additional hose reel speed dial for setting specific speed ranges of the reel. There shall be a boom joystick that controls all function of the boom including up/down, left/right, and extend/retract. There shall be a E-Stop button to bring all machine		
16.04	Tachometer and hour meter for chassis engine provided at control station shall be provided.		
16.05	Tachometer and hour meter for Centrifugal compressor at control station shall be provided.		
16.06	All Hydraulic Functions - Color Coded, Sealed Electric/Hydraulic NEMA 4 switches shall be provided.		
16.07	Fan Engagement/Vacuum Relief - Sealed Electric/Air NEMA 4 Switch shall be provided.		
16.08	Water pump hour meter shall be provided.		
16.09	PTO hour meter shall be provided.		

16.10	A temperature light and alarm shall be provided. Light and alarm will be activated when hydraulic temperature reaches 180 F.		
16.11	Front control screen shall display a water level indicator to show level of water through the range of the tank.		
16.12	Front control screen shall display the debris body fill level.		
17.0	**IN CAB CONTROLS**		
17.01	All In cab controls are to be located on a single in cab control screen. This shall be a 7” full color display screen. It shall utilize 12 back lit tactile (glove ready) buttons on the sides of the screen as well as feature touch screen operation.		
17.02	All Back up camera Features shall be displayed on the In Cab Control Screen.		
17.03	All work lights shall be able to be activated or deactivated in cab with on screen controls.		
17.05	All safety strobes and beacons shall be controlled via on screen controller		
17.06	Jet or Combo mode shall be activated via one touch button on the control panel. Control screen must display an on screen representation of the chassis drive system and must animate to show as drive systems activate or deactivate.		
19.0	**ELECTRICAL & SAFETY LIGHTING**		
19.01	The entire system shall be vapor sealed to eliminate moisture damage, "Nema-4" type or equal.		
19.02	IQAN Electronic Package: Chassis Tachometer, Blower Tachometer, Operating Mode, PTO Mode, Hydraulic Oil Temperature shutdown, Hose Reel Speed, Water Pressure, and E-Stop shall be included. E-Stop activation must turn off rodder pump, shutdown Hydraulics, set chassis throttle to idle, stop vacuum E-stop must be located at each operator interface; including hose reel controls, pendant control, wireless control (if equipped) Diagnostics for basic machine functions and all inputs and outputs shall be accessible via the display. Advanced diagnostics, updates, data retrieval, and remote diagnostics will be available via PC or Bluetooth connection.		
19.02	Logs, reports, and hour meters will be accessible via the display.		
19.03	All electrical connections shall be void of exposed wires or terminals nor should they be painted. Paint process shall be completed prior to installation of wiring.		
19.04	All wiring shall be color-coded and encased in conduit to scaled terminal boxes with circuit breakers.		
19.06	All other lights required by State and Federal Laws.		
19.09	Handheld, Pistol Grip LED Spot light with rechargeable Lithium Ion battery.		
19.14	(2) L.E.D. Boom work lights shall be provided.		
19.24	L.E.D. Lights, Clearance, Back-Up, Stop, Tail & Turn shall be provided.		
19.28	A LED arrow stick shall be installed at the rear of the unit to provide directional control for approaching traffic.		
20.0	**SAFETY EQUIPMENT**		
20.01	E-stop shall be located at each operator interface location. Standard locations to include: front hose reel, mid-ship curbside dump controls, & wireless controller (if equipped.)		
20.02	Electrical system controls shall be configured to allow for single point operation only. Upon engagement of controls at specified locations, additional controls shall be disabled.		
20.03	Electrical system must enable self-check to ensure all switches are in home position prior to critical function enablement. System must "lock out" controls when switch is not in home position.		
20.05	(1) Emergency Flare Kit		
20.06	(1) 5# Fire Extinguisher.		
20.07	7" dash monitor, 1-camera system shall be provided. A rear back-up color camera with 130 deg viewing angle shall be provided. Camera to have automatic activation when the unit is switched to reverse.		
20.08	Debris Body-Up Alarm to indicate when debris body is not in the proper stowed position		
20.11	Digital water pressure shall be displayed in front LCD display. Pressure gauge shall be capable of displaying water system pressure in all pump operating modes.		
20.12	Boom out of Position Light/Alarm		
21.0	**SEWER TOOLS AND ACCESSORIES**		
21.02	(1) 30 Sand Nozzle		
21.03	(1) 30 deg. Sanitary Nozzle		
21.04	(1) 15 deg. Penetrator Nozzle		

21.05	(1) 1" Small finned nozzle pipe skid		
22.0	**VACUUM TOOLS AND ACCESSORIES**		
22.01	The basic vacuum tube package shall include the following:		
22.02	(1) 7" x 3' aluminum pipe		
22.03	(2) 7" x 5' aluminum pipe		
22.04	(1) 7" x 6'6" catch basin tube		
22.05	(4) 7" quick clamps		
23.0	**CHASSIS EQUIPMENT AND STORAGE**		
23.01	Two (2) front tow hooks shall be provided.		
23.02	Two (2) rear tow hooks shall be provided.		
23.05	A safety cone storage racks shall be provided to contain safety cones in the upright position.		
23.06	A water cooler storage rack shall be provided.		
23.07	Aluminum Toolbox - Behind Cab		
23.10	(1) Aluminum Toolbox with nozzle storage and dump controls mounted curbside shall be provided.		
24.0	**MODULE FINISH**		
24.01	Painting of the module shall be with a DuPont Imron Elite Polyurethane Enamel Top Coat. Application is to be a wet top coat applied to a dried and sanded primer base.		
25.0	**CHASSIS SPECIFICATION**		
25.01	The unit shall be a new model. No discontinued models will be accepted		

3.0 REPAIR PARTS AND SERVICE

A. Successful bidder shall be in a position to render prompt parts and service at competitive Prices and in a timely manner.

B. Successful bidder shall maintain and / or have access to a parts inventory of sufficient size And variety to offer 95% parts availability within 48 hours from the time of order.

C. Successful bidder shall supply to the St Charles Parish Employees all necessary training For proper operation, repair manuals and servicing and of this truck.

D. Offerings for equipment or major components produced in the USSR, its satellite countries or Third World Countries **are not acceptable**. Vendors are required to state their equipment is either manufactured in the United States or is a "Free World Country" product.

4.0 DELIVERY AND ACCEPTANCE

A. Delivery must be signed for by management personnel. Acceptance and payment will be made subject to delivered unit complying with our above listed specifications.

B. St. Charles parish has up to three (3) working days after delivery for inspection to determine if the unit(s) as delivered meets St. Charles parish specifications. If the unit does not meet specifications, necessary corrections are to be made by vendor at the vendor's expense, and are not to be considered warranty work.

C. This unit must be delivered as specified on the Price Page to follow. Please contact Murray Dufrene with any questions concerning delivery or specification issues.

LOUISIANA DEALER LICENSE NO._____

The above must be supplied with bid in accordance with LA RS 32:1254 et. seq.

FOB Destination Freight Prepaid: St. Charles Parish
100 River Oaks Dr.
Destrehan, LA 70047

Attention: Bob Williams

5.0 PRICE (is to include shipping and handling cost)

TOTAL BID PRICE: $_____(TRUCK & CHASSIS)

Make / Model: _____

Delivery: 0 - 120 days ARO

DEVIATION SHEETS

(please attach detailed sheets of deviations)

WESTERN STAR 4700SB W/VACTOR 2100i CULVERT TRUCK

OR APPROVED EQUAL

In order to avoid uncertainty, bidder must list deviations on a separate sheet. Any deviations shall have a description of items(s) bid, listing brand names and pertinent details of item. Failure to provide description on any specification listed on this bid document may result in bid found non-responsive and therefore rejected. Deviations may be listed on a separate sheet and must be attached to the bid.

Please attach your own deviation sheets for every item you check off in the package which your truck doesn't meet or exceed.

PROCUREMENT AGREEMENT

St. Charles Parish, represented herein by Matthew Jewell, Parish President, and the successful vendor noted below, does hereby enter into this Procurement Agreement for the expressed purpose of providing the following in order to serve the public.

Description of Procurement*:* - ***Bid Number X-21-463***

CULVERT TRUCK OR APPROVED EQUAL

Now Therefore, St. Charles Parish does, hereby, enter into this Procurement Agreement with the undersigned below.

ST. CHARLES PARISH

By: _____
Matthew Jewell, Parish President Date

COMPANY NAME

_____

_____
Authorized Signature of Company Date

Please return this document back signed and attached to this bid form.