

REQUEST FOR BIDS

WEST VALLEY SANITATION DISTRICT
OF SANTA CLARA COUNTY, CALIFORNIA
100 East Sunnyoaks Avenue
Campbell, California 95008

2022 OK CHAMPION CONTINUOUS RODDER

Notice is hereby given that the West Valley Sanitation District of Santa Clara County (District) is accepting bids for a 2022 OK Champion Continuous Rodder to be manufactured in accordance with the OK Champion Rodder Equipment Specifications, dated July 21, 2021 and delivered to the District Office in Campbell, California.

RECEIPT OF BIDS - Bids will be received at the District office at 100 East Sunnyoaks Avenue, Campbell, California, 95008, until 2:00 PM (local time), on Monday August 2, 2021. Due to COVID-19 restrictions there will be no public opening, however, all bidders shall receive an e-mail with the bidding results and the apparent low bidder identified. Bids may be submitted via e-mail or may be mailed/delivered to the District office. The proposals will be referred to and considered by the Board at its meeting at 5:00 PM, on Wednesday, August 11, 2021.

E-mail Submittal: Edward Oyama, Director of Engineering & Operations
eoyama@westvalleysan.org
(408)385-3011

Mail/Delivery Submittal: Edward Oyama, Director of Engineering & Operations
West Valley Sanitation District
100 E. Sunnyoaks Ave.
Campbell, CA 95008

Bidder is responsible for verifying that the District has received their bid through e-mail or voice confirmation prior to the Bid date and time.

DESCRIPTION OF EQUIPMENT – The OK Champion Continuous Rodder is described in the OK Champion Rodder Equipment Specifications, dated July 21, 2021. This equipment consists of an OK Champion Rodder Model S-660 mounted on a 2022 Peterbilt Model 536 Class 6 medium duty truck chassis.

REQUEST FOR BID (RFB) PACKAGES – RFB Packages are available to interested parties at no cost beginning July 21, 2021 at the District Office, or by telephone at (408)378-2407, or through the District’s website at www.westvalleysan.org/documents/.

DISTRICT’S RIGHT - The District reserves the right after opening proposals to reject any or all proposals, waive any informality (non-responsiveness) in a proposal, or to make award to the lowest responsive and responsible proposer and reject all other proposals, as it may best serve the interest of the District.

West Valley Sanitation District
OK Champion Rodder
Request for Bids
Equipment Specifications

July 21, 2021

The following specifications describe the requirements for an OK Champion Rodder Model S660 mounted on a Peterbilt Model 536 Class 6 medium duty truck chassis. The District has standardized its fleet using OK Champion and Peterbilt equipment and justifies sole source procurement from these manufacturers. The equipment shall be new, unused, and current model year production. Equipment shall be supplied with all appurtenant equipment and accessories described in these specifications. Ownership of the completed OK Champion Rodder remains with the Seller until delivery and full acceptance by the District.

The completed OK Champion Rodder Truck furnished to meet these specifications, including all equipment and accessories, will comply with all current, or known enacted regulations of (1) California Vehicle Code; (2) California Code of Regulations, (3) California Air Resources Control Board (Bay Area AQMD); (4) Cal-Osha standards as applicable; (5) National Highway Traffic Safety Administration; (6) Federal Motor Vehicle Safety Standards and Regulations; and any other Federal, State or local legal requirements that may apply.

The bidder providing the complete OK Champion Rodder Truck (rodder) is referred to as the Seller and is responsible for the entire fabrication, assembly, DMV registration, and delivery of the rodder to the District. The Seller shall coordinate the effort between the manufacturer of the OK Champion Rodder unit (rodder unit) and the vendor of the Peterbilt Truck Chassis (truck chassis) throughout the entire acquisition and build process to ensure all requirements of these specifications are met.

SECTION I – OK CHAMPION RODDER

GENERAL

Equipment specified in this section is for the latest model OK Champion Continuous Rodder Model S660 angle-mounted power rodder unit. The rodder unit shall include all standard equipment normally furnished and any additional and or optional equipment listed in these specifications. The Seller and the rodder unit manufacturer shall ensure that truck chassis vendor is provided with all truck chassis/cab requirements necessary for mounting of the specified rodder unit.

PERFORMANCE

Pulling force:	7,000 lbs.
Rod speed:	200 fpm
Rod diameter:	.393"
Rod capacity:	2,300 feet

HYDRAULIC SYSTEM

Rodder shall be hydraulically driven through PTO and shall be 100% direct hydraulic drive with no chains or other mechanical power transmission devices, except for drive head gear assemblies. The hydraulic power transmission system shall include and conform to the following:

1. System shall be open center.
2. Pump: Fixed displacement two section — 24 gpm and 12 gpm at 1800 rpm.
3. Return line filter: 100 mesh with replaceable element. Mesh strainer/ breather at tank inlet. Install (2) ball valves, one on inlet and one on outlet of filter to allow replacement of filter without the loss of hydraulic fluid
4. Reservoir: Incorporate 4" x 6" rectangular tubing in frame for maximum heat dispersion. Minimum total reservoir capacity shall be 28 gallons. Provide reservoir fill/expansion tank next to operator control station with fluid level indicator in plain view of operator. Manual shut off valves (ball valves) shall be on both supply and return lines. Tank must be designed to prevent loss of pump prime or overflow of hydraulic fluid due to positioning of rodder on steep hills.
5. Hydraulic hoses: Pressure hoses shall be SAE 100R1, SAE 100R2, SAE 100R9, wire-braided pressure hose with permanently attached steel couplings. Suction hose shall be SAE 100R4 suction hose with permanently attached steel couplings.
6. Hydraulic fittings: All joint industry conference (JIC) thread shall be SAE 37 degree flare type. All straight thread O-ring fittings shall be SAE tolerance (class 2A/2B standards). All pipe threads shall be NPTF/NPTM national pipe thread tolerances.
7. Hydraulic fluid: 46 heavy-duty anti-wear hydraulic fluid or equal.

OPERATOR CONTROL STATION

All rod movement controls and instruments shall be located at a single location at the rear passenger side of the vehicle and placed in accordance with the descriptions below. Controller for rod movement shall be a single unitized control handle. Each gauge, switch, and control shall be designed for continuous exposure to harsh exterior environments. Machine engraved labels permanently affixed to the control panel shall identify every control and instrumentation component. **Provide operator control station layout diagram showing placement of controllers and gauges, including engraved labels, for District approval prior to manufacturing of rodder unit.** Rotate and align all gauges, controllers, and labels such that they are oriented parallel to the ground surface and are in general horizontal alignment with each other. In general, place all operator controls and

significant operational instrumentation to the left or above the rodder controller and less significant operational instrumentation to the right. Controls and instrumentation shall include:

1. Illuminated 40mm mushroom head red emergency stop push button. Pull to start, push to stop, 4x NEMA Rating.
2. Vernier rheostat type throttle control programmed to truck unit computer with finite control. Seller is required to verify with the truck vendor that the truck specified will support the "Vernier" rheostat type throttle. Coordinate the installation of the throttle control and its connection to the truck chassis with the truck vendor (Ref. Picture A).
3. 3500 rpm tachometer w/chrome bezel, min. 3.25" diameter.
4. Engine hour meter w/ chrome bezel, min. 5 digits plus 1/10th hour digit, min. 2" diameter.
5. Pressure controls: lateral rod control and rotation rod control. Knobs to be min. 1" diameter.
6. Pressure gauges: 3000 psi dampened lateral and rotation pressure gauges w/ 304 stainless steel body, 316 stainless steel wetted parts, and chrome bezel. Min. 2.5" diameter.
7. Digital rod length footage-counter w/ min. 1/2" tall high contrast numerical character display, min. 4 digits plus 1/10th foot digit, manual zero/reset key, accuracy 0.5% min.
8. Control Panel Lighting: All controls and instrumentation on the control panel must be fully illuminated and readable at night. Provide two switched external (weatherproof) LED lights at the top or above the panel and shielded to prevent direct light into operator's eyes.
9. All gauges and controls shall be properly labelled with appropriate identification, controller movement indicators, and minimum/maximum operating limits (where applicable). Labels are to be exterior grade, highly resistant to UV, heat/cold, harsh chemicals, petroleum, and impact. Each label shall be permanently affixed to the metal surface and machine engraved with high contrast lettering using at least 1/4" tall lettering.
10. Install 24' wide aluminum HD retractable step (Maintainer Pull-Out Step, Part #013155) at rear deck at mid-point between ground and deck surface at operator's control panel location. Manufacture steel frame and attach to deck structure in order to provide support to the retractable step (frame to maintain the 500 lb step rating).
11. Provide 36" high railing/grab bar support at deck to protect operator from falling and for use as a grab bar when climbing up the step to the deck.

RODDER MECHANISM

Frame Construction

Main frame of the power rodder shall be constructed from rectangular structural steel tubing. Tubing must be steam cleaned inside and out prior to assembly. Frame must have internal baffle in hydraulic section to ensure complete heat dissipation and precipitation of solids from hydraulic fluid. Vertical uprights must be constructed so that the entire machine

is at a 15-degree angle to the rear to lower the height of the operator station. All welds to be performed by "mig" process. Frame leak-tested to 5 psig.

Reel Cage Housing Construction

Reel cage housing shall be constructed from rectangular structural steel tubing. The corners must all be mitered and gusseted with 1/2" HR steel plate. Reel cage housing shall be on mainframe by heavy-duty pillow block bearing at two points with welded stops for rigidity; the bearings shall have fittings to allow lubrication. Housing shall incorporate fixed guide from drive head to rod reel. Guide shall be spiral type to allow accumulated material to escape and must be constructed from .461" spring steel wire for maximum wear resistance. Guide shall also include adjustable roller to reduce stress on rod.

Rod Reel Construction and Installation

Rod reel shall be constructed from 7/8" diameter HR round stock. Reel shall have a minimum of 12 spokes diagonally braced to hub. Diameter of completed reel shall be 74" to prevent a "set" from occurring in rod. Rod reel shall incorporate flat band (3/16" x 4-1/2" HR) around circumference to reinforce spokes, provide area to support rod and facilitate rod installation. Rod reel hub shall be manufactured from 2" CR stress-proof steel supported on each end by 2" four-bolt flange bearings. Flange bearings shall be mounted with wedge spaces to align bearing with angle of reel and have fittings to allow lubrication. Retaining ring shall be fixed to reel cage housing to provide safe containment of rod in reel. No bolts, or other fasteners shall be allowed to protrude into rod cage.

Drive Head Design

Rod drive head shall contain three (3) pairs of drive rollers directly driven through pinion gears by two hydraulic motors. Three drive rolls shall be mounted on adjustable shafts to compensate for wear. Clamping force on drive rolls shall be applied hydraulically with pressure proportional to pulling or pushing force to eliminate excessive wear in light rodding conditions and to allow maximum torque during heavy load conditions. Hydraulic tension shall be applied directly to drive roll shaft.

1. Drive rollers: Drive roll gears shall have rolled instead of cut teeth, and shall be pressed directly onto machined drive roll with a minimum of two set screws or drive pins to eliminate movement and slipping. Drive rolls to ride on a minimum of two radial and two thrust bearings. Bearings shall accept a minimum of 1-1/4" diameter stress-proof drive roll shafts.
2. Hydraulic drive: Hydraulic fluid shall be plumbed directly from lateral valve through hydraulic swivel barrel to drive head. All plumbing to motors shall be steel tubing with JIC flare-type fittings. No black pipe or flexible hoses are to be used to drive motor. Lateral drive to feed motors shall be in a parallel fashion for low-speed/high-torque drive and in a series fashion for high-speed/low-torque drive. Gearing shall be internal for structural integrity, to shorten span between torque load points, and to eliminate additional wear points associated with chains, keyways, bearings and shafts.
3. Drive head housing construction: Drive head housing shall be of welded construction, composed of 1/2" #1018 CR side plates, 3/4" #1018 CR end plates and

incorporate welded rod guide bushings and drive head spool shaft. Side plates shall be precision machined in pairs to ensure perfect alignment. Assembly shall be jig welded. Drive head spool shaft shall be machined after assembly to ensure trueness.

4. Drive assembly shall include rotation locks with a minimum of three (3) locking positions that provide the most advantageous positioning for servicing unit.

Rodder Housing

The rodder shall be housed and shrouded with 16-gauge steel sheet material and shall be removable in sections for access to components for repairs and include 24" x 30" hinged screen-type access panels (on each side). Hinges shall allow panel to open towards downward end of rodder. Install a 6" x 12" clear view panel on the hinged access panel above the operator control panel. Clear view panel shall be shatterproof and will not discolor with continuous UV exposure. Install lights to illuminate interior (see Lighting and Camera). Eliminate the caged strobe lights and associated supports that is typically mounted at the top of rodder cowling.

FINAL ASSEMBLY

Assembly

Rodder unit shall be installed on a Peterbilt Model 536 Class 6 medium duty truck chassis according to SAE standards. No welding on the truck frame will be allowed. All equipment shall use tie-down plates and bolts. Tie-down plates will not exert load exclusively to top deck (diamond plate) and will distribute the load across the rodder frame. Mount as low as possible to minimize overall truck height.

Truck Bed

Rodder truck bed shall be constructed from 12-gauge smooth steel sides with 12-gauge tread plate load areas. The structural framing and rear bumper shall be integral and constructed from 4" x 5.4" HR channel. Two 4-inch D-rings shall be installed on the lower part of the rear bumper just outside of each leg of the A-frame rod hose support (Ref. Picture B). Truck bed shall incorporate wheel chock holders, quadrant storage, and full FMVSS, ICC lighting, including marker and clearance lights. Stop, turn and back-up lights shall be 4" diameter LED type and flush-mounted in rear panel with replaceable lenses.

Paint

Entire rodder assembly, body and all attachments shall be primed and painted with a minimum of two coats of primer and two coats of acrylic enamel paint with hardener prior to mounting on truck bed. Color shall match the Peterbilt color (white) of cab chassis. All steel edges, corners, and rough welds of all rodder components receiving paint are to be ground smooth and or slightly rounded prior to application of primer and paint (no sharp edges). Exposed horizontal top deck surfaces and vertical perimeter plates and dividers are to be coated with quality protective "rubber" coating similar to Rhino Linings.

ADDITIONAL ITEMS AND FEATURES

Toolboxes

All toolbox compartment doors are to be weather sealed and leak proof. All compartment doors shall have chromed T-handle 3-point locking mechanisms with barrel locks, all keyed alike, and set in stainless steel lock pockets (Ref. Picture C). Doors shall use one piece rolled hinge with 5/16" stainless steel rod. All toolbox interiors shall be illuminated (see Lighting and Camera). Install drip channel above each toolbox door. Perform water spray test on entire unit to confirm seals and all connected components are leak proof.

1. Behind Cab: One bright diamond plate aluminum storage box located immediately behind cab and above, but not connected to the water tank (see Water System). Box dimensions are approximately 18" width x 30" high x 84" long (extending near full body width). The box doors shall have unimpeded opening and swing open towards cab. Provide pass through compartment (fixed shelf) at mid-height to span entire length of toolbox and at the bottom of the box, two full extension roller shelves (street and curb side access) mounted on HD full extension ball bearing drawer slides with a 1½-inch lip on shelf all around. Provide spring loaded lock/pin to keep rolling shelves secure during travel (Ref. Picture D).
2. Forward of Rear Wheels: Install (2) toolboxes approximately 36" long x 16" high x 16" deep on both sides forward of wheel wells. Dimensions are to be maximized as space permits. Place hinges on bottom to allow door to open downward and provide rubber bumper stops and door chains or other limiter to prevent damage to hinges. Install a sliding shelf with heavy-duty full extension slides placed in each box with a 1½-inch lip on shelf all around. Install 3" high repositionable dividers for the rollout trays and slots in trays to allow divider placement at 6" centers along box length. The sliding shelf shall be installed so that the shelf bottom is 7.5-inches above the bottom of each box. Provide spring loaded lock/pin to keep rolling shelves secure during travel.

Water System

1. Install an approximately fifty-gallon stainless-steel tank with bottom drain plug, mounted behind cab and diamond plate aluminum storage box. The approximate dimensions are 6" wide x 24" high x 84" long. Place fill spout for the tank on the passenger side of the vehicle, if not otherwise obstructed.
2. Place a retractable hose reel with 25-feet of 5/8" hose mounted on rear deck. The location of the reel will be street-side on the deck above the wheel well (Ref. Picture E).
3. Install a 12V electric water pump with the capability of producing a minimum of 80 psi outlet pressure at 6 gpm. The control switch for the pump to be located near the hose reel on a protected switch box and recessed for protection, with engraved labels for "on/off" directions. Provide all necessary plumbing between water storage tank, pump, and hose reel as needed to create a complete water system.

Lighting and Camera

1. Unless otherwise noted, all lighting controls will utilize in cab Peterbilt OEM switches with indicator lights. Provide additional switch clusters necessary for the lighting specified. All lighting controls will be wired to a power box with relays providing 20 amps per circuit to a junction block and one circuit at 30 amps.
2. Two (2) 4" round Whelen TIR6 Super-LED (2FC00ZCR/2FLANGEC) lights to illuminate the interior housing of the cowling. One light mounted over the reel area and the other over the drive head area with a single switch installed on control panel.
3. One (1) white Whelen Pioneer Plus with handle and locking pedestal mount (PFH1PH/PBAPEDDL) mounted on top of a painted steel fabricated mount (rear camera to be mounted below the work light). Switch for worklight shall be installed on operator control panel.
4. Two (2) Whelen 12 LED light arrow boards and controllers (TA125NF/TACTL6). Arrow boards shall be mounted as high as possible on the cowling without any portion of the light extending beyond its outside perimeter (preferably no closer than 2" from the perimeter's edge). One arrow board to face forward on front of cowling, one facing rear on rear of cowling, with separate controllers mounted on the dash inside of cab with engraved labels denoting front or rear arrow board on each controller. Fabricate, paint, and install appropriate steel mounting for these arrow boards.
5. Provide "Safety" LED warning lighting and camera system switched from the cab:
 - a. Two (2) Whelen wide-angle ION Series flashers (WIONA) on the front grill of truck.
 - b. Two (2) surface mount Vertex Series flashers with flange (VTX609A/VTXFC) on the sides of the front portion of the hood.
 - c. Four (4) M4 Series LED flashers with flange (M4AC/M4FC), two on each side of the rod body skirt at identical heights.
 - d. Two (2) surface mount Whelen wide-angle ION Series flashers (WIONSMCA) on the rear back corners of the truck bumper.
 - e. Two (2) Micro Freedom Super LEDs (MCFLED2A) mounted on top of the Peterbilt provided cab mounts over each door.
 - f. Pro-Vision Model TV-505A back up camera system with 7" color monitor mounted on dash within easy view of the driver and wire unit through a factory OEM on/off switch on the dash. Camera to be installed below rear work light on fabricated mount.
6. Toolbox Lighting: Install Whelen Fluorent Plus Super-LED tube lighting in all toolboxes. Tubes to run length of toolbox above each compartment space (upper and lower shelves). Place master switch in cab.
7. Provide one (1) Whelen PAR 46 Super-LED handheld spotlight, model P46HHS. Spotlight to be 12VDC, with 12V outlet plug and coiled cord, and pull magnet mount.
8. Install two (2) waterproof marine grade 12-volt power outlets with cap. Outlet to remain waterproof with plug installed. Place one outlet at operator control station panel and one outlet at rear of rodder above the rear bumper.

ROD AND TOOLS

Continuous Rod

Rodder shall be provided with a minimum of 1,800' of .393" certified continuous rod. Rod material shall be composed and manufactured primarily for sewer rodding purposes.

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|----------------------|----------------------------------|
| 1. Tensile strength: | 200,000 to 225,000 psi |
| 2. Hardness: | 40.0 to 43.0 RC |
| 3. Diameter: | .393" +/- 0.0003" |
| 4. Ductility: | Bend 90 degrees at 0.125" radius |
| 5. Torque: | Optimum torque versus ductility |

Tools and Accessories

1. (1) 18' HD hose guide w/ steel spring liner with HD 2" female cam-loc fitting and HD hose guide bell at other end.
2. (1) 7' HD hose guide w/ steel spring liner with HD 2" female cam-loc fitting and HD 2" male cam-loc fitting at other end.
3. (1) rod guide manhole brace
4. (1) rod guide stand
5. (1) rod bending kit for .393 rod

ACCESSORIES

1. Install a 3000W inverter and provide two exterior GFCI power outlet boxes at the rear of the rodder. One 120V outlet to be installed on the driver's side above the rear bumper area and the other on a vertical wall directly below the operator control panel.
2. Install two (2) cone hoops on front bumper. Hoops to be approximately 9" in diameter with ability to hold minimum five cones each. District cones have a 11" square base, 7½" diameter cone base, and are 28" tall (Ref. Picture F).
3. Install two (2) 4" diameter steel pipe
4. Provide two (2) long 4" diameter thin wall steel tubes running from back of rodder rear panel, alongside the truck rails (under the deck), and extending to the back of cab. Close ends at cab with expanded metal and leave flush at rear panel.

SECTION II – PETERBILT TRUCK CHASSIS AND CAB

GENERAL

The truck specified in this section is a 2022 Peterbilt Model 536 Class 6 medium duty truck chassis/cab. The features of the truck shall include all standard equipment normally furnished with this model including all additional features and or optional equipment listed in these specifications. The truck vendor is responsible for coordinating with the Seller and the rodder unit manufacturer to verify that the truck meets all of the requirements of this specification and requirements of OK Champion.

FEATURES

The following features do not represent all standard and or optional features that are necessary to meet the requirements of OK Champion, or of the completed OK Champion Rodder. These additional features are specific truck options required by the District. Should there be any conflict between District options and features required by the rodder unit manufacturer, this shall be brought to the District's attention prior to submitting a bid.

Frame & Equipment

1. Wheelbase – Truck vendor must obtain from the rodder unit manufacturer the required wheelbase to properly fit the rodder unit on the chassis.
2. Cab to Axle – Truck vendor must obtain from the rodder unit manufacturer the required cab to axle length required to properly fit the rodder unit and other accessories on the chassis.
3. Three piece aero metal bumper, or custom steel bumper, as required to support traffic cone holders and a minimum of ten traffic cones.

Engine & Equipment

1. PACCAR PX-7 260@2400 meeting 2022 CA Emissions.
2. Remote PTO/Throttle. Connect vernier rheostat type throttle control programmed to vehicle computer with finite control (see Section I – Operator Control Station).
3. 200A HD alternator.
4. Two PACCAR Premium 12 V Starting Batteries 2000 CCA.

Transmission & Equipment

1. PACCAR TX-8 8AP660 Automatic
2. Dash Mounted Single Action EOH PTO Control
3. TP-650 Torque Converter

Tires, Wheels & Suspension

1. Michelin 16 ply radial 295/75R22.5 tires. Rear tires to be mud and snow rated.
2. Polished Aluminum Wheels All Around (Alcoa Dura-Bright)
3. Automatic Adjust Air Bag Suspension
4. Jake/engine break
5. Locking differential

Fuel Tank

1. D-shaped Aluminum 50 gal fuel tank w/ locking cap, drain plug, and non-slip step mounted LH U/C
2. DEF Tank mounted LH U/C

Cab & Equipment

1. Thermal Insulation Package in cab.
2. Air Ride (UltraRide) high back seats for driver.
3. Cab Air Suspension.
4. Exterior cab entry grab handle, both sides.
5. Metal interior door panel kick plates
6. Aftertreatment aluminum Non-slip cab entry RH U/C
7. Power windows and door locks.
8. Dark window tint
9. Aero Rear View Mirrors, Motorized
10. Stainless steel sun visor
11. Daytime running lights
12. 15" Air horn mounted under cab
13. 2 additional dash switches w/wiring as needed for added lighting and features (see Section I – Additional Features). Switches to have indicator lights and properly labelled.
14. Concert Class w/o CD, including Bluetooth phone
15. Brackets for beacon/strobe, roof mounted.
16. Triangle Reflector Kit
17. 5# ABC Fire Extinguisher, cab mounted
18. Backup Alarm (107 db)

Paint

1. Cab color shall be white as offered by manufacturer
2. Frame & chassis shall be black.
3. Front bumper shall be black.

Extended Warranty

In addition to the Peterbilt Class 7 Standard Coverage (1yr/unlimited miles) and PACCAR PX-7 Standard Coverage (3 years/unlimited miles) provide the following extended coverages.

1. 5 year or 150,000 mile warranty on the engine and exhaust aftertreatment.
2. 5 year Allison transmission warranty.

SECTION III - SPECIAL CONDITIONS

MANUALS AND TRAINING

Seller will provide the following manuals for the OK Champion Rodder and all added components (controls, instrumentation, water pump, inverter, lighting, etc.):

1. One (1) set of Operator Manuals for the rodder and the truck cab/chassis provided in separate binders. In lieu of hard copy, if available, manuals may be provided in

- electronic format.
2. One (1) set of Shop Repair Manuals for rodder and for truck cab/chassis provided in separate binders. In lieu of hard copy, if available, may be provided in electronic format.
 3. One (1) set of rodder "As-Built" hydraulic and electric schematics shall be provided in the Shop Repair Manual binder. In lieu of hard copy, if available, may be provided in electronic format.
 4. All manuals shall be provided with the completed unit and prior to payment of invoice.
 5. Training on the completed OK Champion Rodder shall be provided at the District office. Four hours of start-up and operators training and four hour of mechanics training shall be provided by the Seller. Start-up and operators training to include demonstration of the OK Champion Rodder operation on an active sewer.

DMV REGISTRATION AND LICENSING

Seller shall license and register the completed rodder with the California Department of Motor Vehicles, exempt status, prior to delivery to District. The OK Champion Rodder will be delivered with a Temporary Registration (Exempt "E" plate). Owner documents will reflect:

West Valley Sanitation District
100 E. Sunnyoaks Ave.
Campbell, CA 95008

WARRANTY

In addition to the manufacturer's warranties described in this section and in other parts of this specification, the Seller providing the completed OK Champion Rodder shall provide a minimum one (1) year unconditional warranty covering the repair and or replacement of any and all defects in material and or workmanship without cost to the District. Roundtrip transport of the OK Champion Rodder to the required repair facility for warranty service shall be covered in all warranties described. The following are the requirements for manufacturer's warranties and other requirements:

1. All warranties shall begin upon the District's acceptance of the completed OK Champion Rodder after delivery to the District facility and after all requirements have been satisfied (full acceptance by the District).
2. Manufacturers of the OK Champion component and the truck chassis component shall provide a minimum one (1) year unconditional warranty covering the repair and or replacement of any and all defects in material and or workmanship without cost to the District. If any component standard warranty exceeds one (1) year, that standard warranty will supersede the minimum requirements in these specifications.
3. The manufacturer of the OK Champion component shall provide a 5-year warranty on the rod reel cage housing.
4. The manufacturer of the truck chassis component shall provide standard manufacturer warranties in addition to the extended warranties as described in Section II - Features.
5. Separate warranties on components (controls, instrumentation, water pump, inverter,

- lighting, etc.) offered by the manufacturers shall be furnished to the District.
6. Seller shall furnish the District with one (1) copy of each warranty described. All warranties shall be provided with the completed unit and prior to payment of any invoice.



Picture A - Throttle



Picture B - A Frame Support



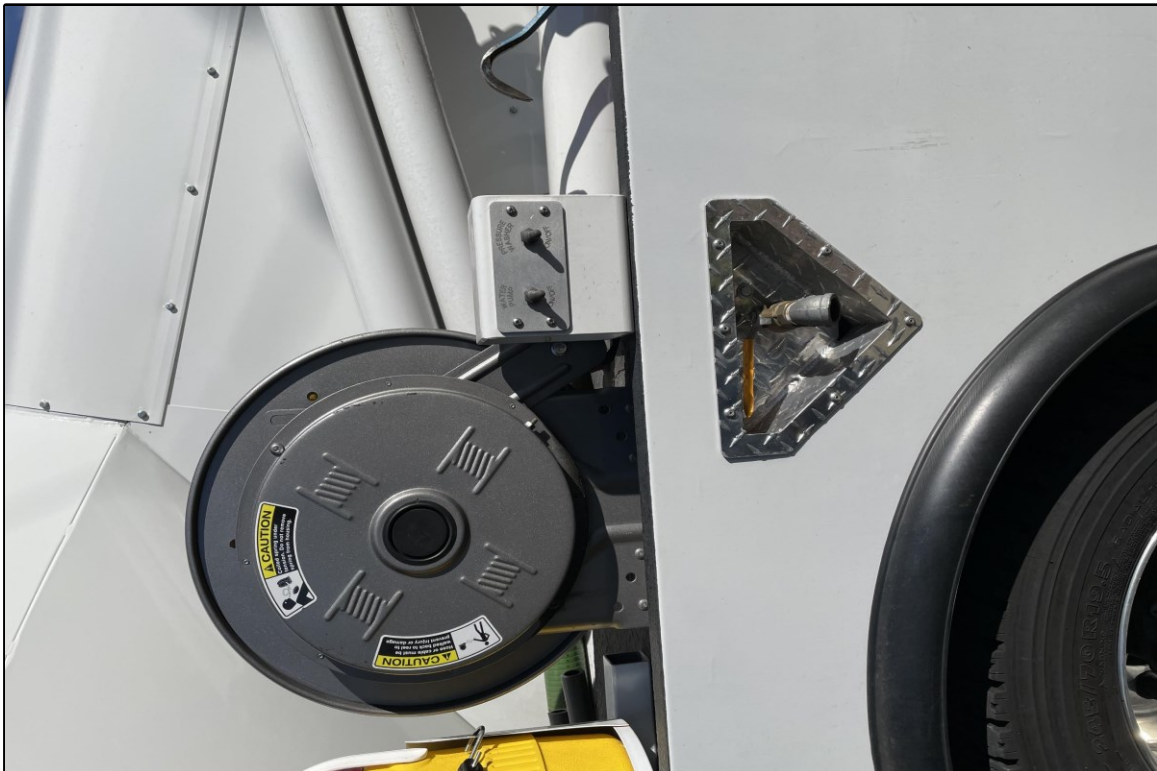
Picture C – T- Handle



Picture D – Locking Pin



Picture E – Cone Holders



Picture F – Hose Reel