

Approved by CC:

APR 28 2014

REQUEST FOR AGENDA PLACEMENT FORM

Submission Deadline - Tuesday, 12:00 PM before Court Dates

SUBMITTED BY: Lt. David Blankenship
TODAY'S DATE: 04/17/14

DEPARTMENT: JCSO - Jail Division

SIGNATURE OF DEPARTMENT HEAD: Bob Alford
REQUESTED AGENDA DATE: 04/28/14

SPECIFIC AGENDA WORDING: Consideration of Macerator option with Jail Lift Station improvements.

PERSON(S) TO PRESENT ITEM: Lt. David Blankenship and Kelli Davis

SUPPORT MATERIAL: (Must enclose supporting documentation)

TIME:	ACTION ITEM: <input checked="" type="checkbox"/> x
	WORKSHOP <input checked="" type="checkbox"/> x
(Anticipated number of minutes needed to discuss item)	CONSENT: _____
	EXECUTIVE: _____

STAFF NOTICE:

COUNTY ATTORNEY <input checked="" type="checkbox"/> x	IT DEPARTMENT:
AUDITOR: _____	PURCHASING DEPARTMENT: <input checked="" type="checkbox"/> x
PERSONNEL: _____	PUBLIC WORKS: _____
BUDGET COORDINATOR: <input checked="" type="checkbox"/> x OTHER: _____	

*****This Section to be Completed by County Judge's Office*****

ASSIGNED AGENDA DATE: _____

REQUEST RECEIVED BY COUNTY JUDGE'S OFFICE _____

COURT MEMBER APPROVAL _____ Date _____

David W. Blankenship

From: Josh Brockett <joshb@childress-engineers.com>
Sent: Thursday, April 17, 2014 10:48 AM
To: David W. Blankenship
Subject: FW: Revised Costs
Attachments: 13035 Budget.pdf

From: Josh Brockett [mailto:joshb@childress-engineers.com]
Sent: Friday, March 14, 2014 3:42 PM
To: 'DavidBlankenship@johnsoncountytexas.org'
Subject: Revised Costs

David,
Attached are the revised costs. I added a contingency to make sure we don't have to go back. We need to ask for \$143,000. That is the \$139,000 construction plus \$4,000 for design and plans. (our fee is 10% of construction costs).

Let me know if you have any questions, and when it is on the agenda. We will be at the commissioners court meeting.

Thanks,
Josh

Josh Brockett, P.E.
Childress Engineers
Texas Registered Eng. Firm F-702
211 North Ridgeway Drive
Cleburne, Texas 76033
817-645-1118

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ENGINEER'S OPINION OF PROBABLE COST
 JOHNSON COUNTY
 ABANDON OLD L.S., DIVERT SEWAGE & CONSTRUCT NEW L.S.
 REVISED MARCH 14, 2014

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL PRICE
1.	Bonding & Mobilization	1	LS	\$5,000.00	\$5,000.00
2.	Project Video/Photos	1	LS	\$500.00	\$500.00
3.	Concrete Pavement Repair	45	SY	\$45.00	\$2,025.00
4.	Gravel Drive Repair	129	SY	\$30.00	\$3,870.00
5.	6" SDR 35 PVC Sewer Main	310	LF	\$35.00	\$10,850.00
6.	1 1/2" Sch 40 Water Line	255	LF	\$10.00	\$2,550.00
7.	Water service tap	1	EA	\$250.00	\$250.00
8.	Non Freeze Yard Hydrant	1	EA	\$300.00	\$300.00
9.	Concrete Sawcutting	180	LF	\$2.00	\$360.00
10.	Standard 4' diam. Manholes	1	EA	\$3,800.00	\$3,800.00
11.	4' diam. Drop Manholes	1	EA	\$4,200.00	\$4,200.00
12.	Connect to Existing Sewer Force Main	1	EA	\$1,500.00	\$1,500.00
13.	Connect to Existing Sewer lines	3	EA	\$500.00	\$1,500.00
14.	Plug and Abandon Old Lift Station and Valve Vault	1	LS	\$2,000.00	\$2,000.00
15.	Install New Wet Well, Valve Vault and all assoc. piping, valves, and appurtenances	1	LS	\$30,000.00	\$30,000.00
16.	Salvage, Clean and install pumps, piping float switches and electrical leads from Existing Wet Well to Proposed Wet Well	1	LS	\$15,000.00	\$15,000.00
17.	Reconnect pumps to pump control panel	1	LS	\$2,000.00	\$2,000.00
18.	Trench Safety System	290	LF	\$5.00	\$1,450.00
	Contingency		LS	10%	\$8,845.00
ESTIMATED CONSTRUCTION COST					\$96,000.00

MACERATOR					
	Macerator	1	LS	\$26,000.00	\$26,000.00
	Macerator Installation and Electrical	1	LS	\$13,000.00	\$13,000.00
	Contingency		LS	10%	\$4,000.00
ESTIMATED CONSTRUCTION COST					\$139,000.00

This document is released for the purpose of providing an Opinion of Probable Construction Cost estimate and agreement for engineering services under the authority of Benjamin S. Shanklin, P.E. 58726 on March 14, 2014. It is not to be used for construction, bidding or permitting purposes. An actual design was not performed to develop the costs contained herein.

Macerator - Muffin Monster Model 30005-0008
 Grinder



Muffin Monster

Family of Grinders

Mini Monster®

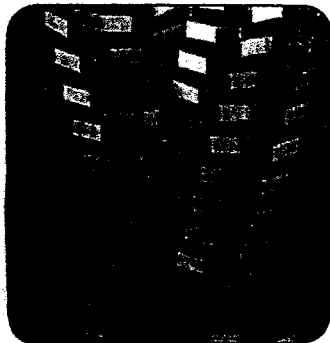
For lower flows, buildings, condos and resorts the Mini Monster is a powerful grinder in a compact package. It shreds rags and trash into tiny pieces in wastewater or sludge to protect pumps and eliminate costly breakdowns and back-ups.

Muffin Monster

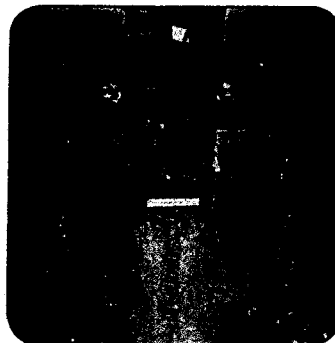
The workhorse of wastewater since 1973 the Muffin Monster easily reduces troublesome solids. The dual-shaft design uses low speed, high-torque power to shred tough solids in sewage and sludge. With over 30,000 installations the Muffin Monster is the proven solution for protecting pumps and systems.

Macho Monster

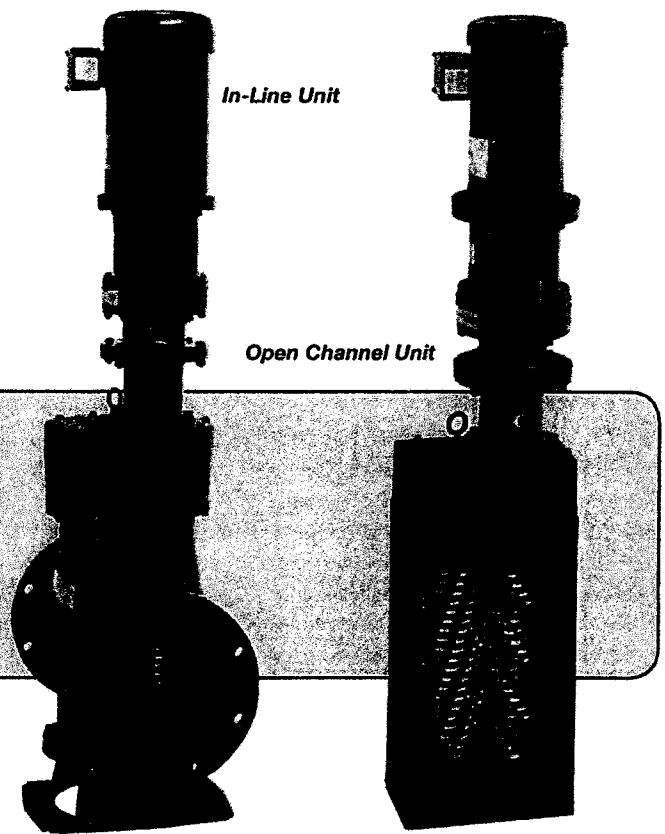
For bigger solids reduction projects the Macho Monster has the power to keep up with the flow. The 40000 model uses 7-1/2" (190mm) cutters and the 70000 model uses massive 10" (254mm) cutters to slice through difficult solids. Ideal for sludge lines, prisons, waste-to-energy and food processing.



Dual shafted grinder



Easy pump station installation with custom frames.



Features & Benefits

Dual Shafted Grinder

- Low-speed, high torque grinders handle rags, rocks, wood, clothing, plastics and other debris
- Capable of grinding a wider variety of solids than single shafted machines and macerators

Compact and Efficient Design

- Adapts to pipelines or channels with little or no modification
- Custom stainless steel frames allow easy installation in channels, wet wells and pump stations
- In-line Mini and Muffin Monster incorporate easy to remove cutter cartridge

Cartridge Seal Assembly

- High pressure capability up to 90 PSI (6 bar)
- Runs submerged or dry with no seal flush required

Patented High-Flow Side Rails

- Increases flow capacity and decreases head loss
- Deflects solids into the cutting chamber

Automated Monitoring and Controls

- Auto load sensing and reversals reduce interrupts and optimize the grinder's performance



Trust Monster Quality™

www.jwce.com



Applications

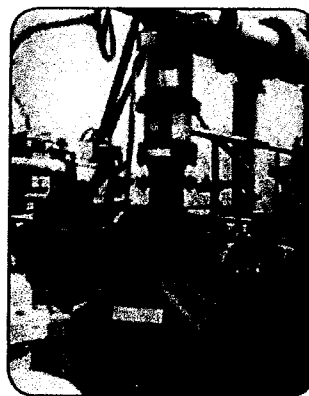
	Mini Monster	Muffin Monster	Macho Monster	Characteristics
Buildings, Resorts and Condos				Grinds up rags, cotton products and other trash frequently flushed down the toilet. Grinders are more powerful than grinder pumps and eliminate sewage pumping problems.
Pump Stations				Channel grinders can be installed on the wall of a wet well. In-line units are installed in dry pumping stations. Grinds solids to keep pumps running reliably and efficiently.
Septage / Grease				Grinds up rags, silverware, solids and trash as septage/grease are unloaded.
Sludge / Scum				Grinds up rag balls, rocks and plastics to protect sludge pumps.
Belt Press / Centrifuge				Grinds a variety of solids to protect dewatering systems from damage and makes them more efficient by homogenizing sludge prior to dewatering.
Jails / Prisons				Prevents clogs and spills. Installed in over 2,000 prisons, jails and institutional facilities.
Hospitals / Nursing Homes				Grinds up rags, pads, clothing, needles and dangerous waste to protect pumps & systems.
Food / Fish Processing				Grinds up material such as fish guts, slaughterhouse scraps, rendering material, food scraps and more. Frequently used in biogas applications to turn waste into energy.
Pulp / Paper				Installed in sludge lines, pulp systems and wastewater plants to protect pumps & pipelines.
Industrial				Used in refineries, hazardous waste processing, obsolete inventory destruction & recycling.

* Consult factory for additional application assistance and approval.

Photo Gallery



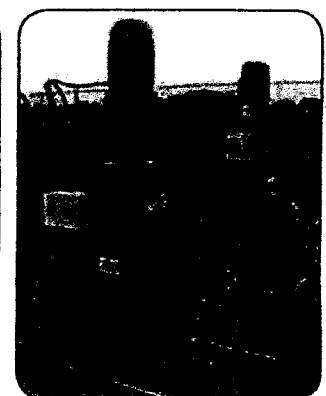
Muffin Monster in-line grinders handling septage.



Muffin Monster in-line sludge grinder.



Macho Monster in-line sewage grinder in a jail.



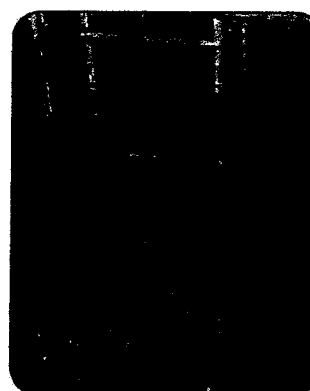
Macho Monster in-line sludge grinders.



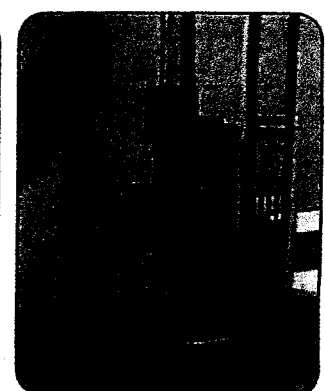
Muffin Monster grinder in a fish processing plant.



Muffin Monster channel grinder in a prison.



Muffin Monster pump station grinder and installation frame.



Muffin Monster pump station grinder and installation frame.