

**65102**  
Revision 0



Jefferson Parish Purchasing Dept.  
Bid Number 50-00116903  
June 24, 2016

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## Introduction

June 24, 2016

Melissa Ovalle  
 Jefferson Parish Purchasing Dept.  
 General Government Building, Suite 4400  
 Gretna, LA 70053

**Quotation Number:** 65102 **Revision:** 0  
**Reference:** Bid Number 50-00116903  
**Subject:** Rapid Mixers East Bank Jefferson Parish Water Plant

Dear Melissa,

Philadelphia Mixing Solutions Ltd. (PMSL) is a global leader in supplying mixing equipment and process technology; with more than 50 years of fluid mixing experience. We are capable of providing the highest levels of expertise and experience for your mechanical and process mixing solutions.

- ✓ To ensure long design life, Philadelphia Mixing Solutions, Ltd. Designs its own gear drives, shafts, and impellers that are specifically designed to accommodate the stresses common with mixing/agitation applications.
- ✓ **ISO-9001:2008 Certified**
- ✓ PMSL is equipped to perform a variety of laboratory tests and computer modeling at our Palmyra, Pennsylvania facility including CFD, FEA, PIV laser, and many mixer configurations

Thanks again for giving us this opportunity. We greatly appreciate your business and look forward to working with your team.

Your contacts at Philadelphia Mixing Solutions:

**Regional Sales Manager**

Colin Christie  
 +1 (404) 416-1180  
 cchristie@philamixers.com

**Application Engineer**

Jason Gueci  
 +1 (717) 832-8876  
 jgueci@philamixers.com

**Manufacturer's Representative**

Melissa Clouatre  
 ETEC  
 225-295-1200  
 mclouatre@etec-sales.com

# PMSL Offering

## PHILADELPHIA MIXING SOLUTIONS STANDARD OFFERING

<u>Tank Tag</u>	<u>Mixer Description</u>	<u>Motor Power</u>	<u>Wetted End MOC</u>	<u>Tank Mounting</u>	<u>Qty.</u>	<u>Price Each USD</u>
Rapid Mix	3800 Raven Right Angle, PBT impeller	40Hp	316SS	Gearbox Baseplate	2	41,450
<b>Total:</b>						<b>82,900</b>

## SPECIAL REQUIREMENTS

<u>Description</u>	<u>Mixer Description</u>	<u>Price Adder per Unit</u>

## Commercial Offering

### LEAD TIME

Approval drawings will be issued 4 weeks after receipt of order and acceptance by PMSL.

Shipment will be 14 weeks after receipt of approved outline drawings and release to manufacture.

The standard lead time mentioned above is based upon current shop load and inventory. It may be possible to accelerate delivery upon request. Actual lead time is to be confirmed at receipt of order and release for manufacture, subject to current shop load.

### FREIGHT (INCOTERM 2010)

FOB (Free On Board) Jefferson Parish

Unless otherwise stated, crating is not included in freight costs.

### PAYMENT TERMS

- 15% - Invoice upon submittal of outline drawing(s)
- 35% - Invoice upon equipment release to fabrication (by customer)
- 50% - Invoice upon notification of shipment
  - Ex-works factory, unpacked
  - Standard delivery time
  - Net 30 days (upon credit approval by PMSL accounting department)
  - Standard Warranty
  - No LDs or Banks bonds

Pricing does not include any taxes or tariffs. All orders will be billed on a pro rata basis for approved partial shipments.

### PRICING VALIDITY

45 Days

### SPECIFICATIONS

This proposal is based upon the following specifications:

50-001116903

### STANDARD DOCUMENTATION

Documentation will be our standard documentation package comprising:

- GA drawing with mixer dimensions, weights, nozzle loads
- Motor dimensional drawing
- Motor wiring diagram
- Motor data sheets (manufacturers standard)
- Installation, Operation and Maintenance Manual

### FACTORY SERVICE

Startup, training, and installation assistance are not included in the price as quoted. If field service is desired, it may be purchased directly from Philadelphia Mixing Solutions per our standard Field Service Rates (available upon request).

### WARRANTY

Our mechanical warranty for this equipment will be 12 months after start-up, not to exceed 18 months after shipment. We agree to repair or replace any mixer component supplied by PMSL that, during the warranty period, fails because of defects in materials or defects caused by factory workmanship. This warranty is based upon proper storage, installation according to instructions, and proper maintenance after start-up. Our service manuals will detail the procedure to be used. Extended warranties are available on request.

### RAW MATERIALS ADDER

As PMSL is dependent on other suppliers for raw material, we are subject to unforeseeable and uncontrollable fluctuations in pricing levels for such products. For this reason, PMSL must adjust its prices to reflect our increased costs should the order be placed outside the quoted pricing validity period.

### CANCELLATION POLICY

Cancellation in whole, or in part, after release to manufacture may result in cancellation charges for materials purchased, work performed, and/or services provided up to and including date of cancellation. Milestone Schedule of Cancellation charges would be:

- 20% of Order Value at Approval Drawing submission (only applicable for approval orders)
- 45% of Order Value at Release to Fabricate
- 90% of Order Value at Receipt of Motors / Seals, etc.
- 100% of Order Value from Completed Assembly stage

### TERMS & CONDITIONS

This quotation is subject to the Standard Terms and Conditions of Sale, as outlined on the attached. This quotation will become a part of any Purchase Order Agreement between PMSL and the successful Buyer or Contractor.

## Clarifications/Exceptions

Document	Rev.	Section No.	Comment/Exception
General	-	N/A	The following items are NOT included in our pricing or scope of supply: tanks, baffles, mixer support bridges or structures, sub-base plates, platforms, walkways; structural steel beam or channel supports; handrails; grating; lubricants; motor controls or starters; wiring; conduit or other electrical components; hold down hardware; bridge or platform designs or recommendations; installation, field service, state or local taxes; field or finish painting; and rubber field patch kits.
50-00116903	0	2	The mixer we are offering will operate at 46.4 RPM's and not the 45 Specified. 1200 RPM Motors offered.
		3	Gearbox Housing is cast iron and not fabricated steel.
Instruction for bidders and general conditions.		C	Please see PMSL standard Terms and Conditions.

# Standard Terms and Conditions of Sale

## PHILADELPHIA MIXING SOLUTIONS, LTD. STANDARD TERMS AND CONDITIONS OF SALE

### GOVERNING TERMS

These terms and conditions and those stated in Seller's proposal or quotation shall exclusively govern the transaction of sale of goods between Customer and Philadelphia Mixing Solutions, Ltd., a Pennsylvania Corporation, ("Seller"), described on the front side of this form, provided that any terms set forth on the front side hereof or in Seller's quotation which differ from, conflict with or add to the terms set forth below shall govern. Seller hereby objects to any additional, conflicting or different terms or conditions proposed by Customer prior or subsequent to the date hereof, including any such terms or conditions contained in the Customer's order or other Customer document. Acceptance of Seller's offer or counteroffer by acknowledgement is expressly limited to these Terms, which may not be modified except in writing, executed by the President or a Vice President of Seller.

### GENERAL

Stenographic and clerical errors are subject to correction. All price lists and discount schedules of Seller are subject to change without notice. Further, unless otherwise stated on the front side of this form, if the delivery date of a product sold hereunder is more than three months after the order date, Seller may assess an additional fee to compensate Seller for any increase in raw material costs incurred between the date of order and date of delivery.

### PROPRIETARY MATERIAL

All specifications, drawings, technical data and engineering information supplied to Customer by Seller constitute Seller's proprietary intellectual property, shall be used solely in connection with this order, shall not be disclosed to others without Seller's written consent and shall be returned upon request.

### DISPUTES

All disputes, claims or controversies arising out of or in any way relating to the sale of products by Seller to Customer shall be governed by Pennsylvania law without regard to conflicts of law principles. If a dispute arises out of or relates to this contract or the breach thereof, and if the dispute cannot be settled through negotiation, the parties agree first to try in good faith to settle the dispute by mediation administered by the American Arbitration Association under its Commercial Mediation Procedures before resorting to litigation. If a party fails to respond to a written request for mediation within 30 days after service, or fails to participate in any scheduled mediation conference, that party shall be deemed to have waived its right to mediate the issue in dispute. Mediation shall take place via audio or video conference, unless the parties agree to an in-person location.

The parties hereby consent that venue for any litigation concerning this Agreement shall lie in either the U.S. District Court for the Middle District of Pennsylvania, or the Court of Common Pleas of Lebanon County, Pennsylvania and hereby submit to the exclusive jurisdiction of said courts. Interpretation of this Agreement shall be governed in all respects in accordance with the laws of the Commonwealth of Pennsylvania, without regard to its conflicts of laws provisions, and the parties hereby waive any right to a jury trial.

### STANDARDS

The standards of the American Gear Manufacturers Association will be used and shall govern, where applicable, in the manufacture of gears and gear drive assemblies, unless Seller expressly agrees otherwise in writing.

### LIMITED WARRANTY

Subject to the qualifications set forth below, Seller warrants that for a period of twelve (12) months from start-up, not to exceed eighteen (18) months from date of shipment to Customer, the products sold to Customer will: (i) conform with and meet all specifications (ii) be free from defects in materials and workmanship; and (iii) be delivered free from all liens and encumbrances created by or arising through Seller. Seller is not responsible for the accuracy or reliability of any specifications, design conditions or other data furnished by or on behalf of Customer or the ultimate user.

Materials exposed to process are not warranted against corrosion or other deterioration due to exposure to vessel contents. Customer is solely responsible to determine the integrity of such materials. Seller warrants only that (i) in the case of materials selected by Customer, the materials used will conform to Customer specifications of such materials and (ii) in the case of materials not specified by Customer, the materials shall be Seller's standard materials of construction for out-of-tank components.

Seller shall not be responsible for any defects in any components (such as gears, shafts, bearings, or motors) furnished by others at the request of Customer, and Customer shall look solely to the manufacturer or supplier of such component for its exclusive remedy with respect thereto.

Seller's warranties shall be void if the product is not used strictly in accordance with all instructions as to storage, handling, maintenance, lubrication, installation, startup, operation and safety set forth in the manuals and instruction sheets furnished by Seller.

At Seller's sole discretion, Seller may authorize repair services to be performed by others. Seller shall have no responsibility for repairs made outside Seller's plant unless such repairs are effected in accordance with Seller's written authorization and shipped to such other repair facility strictly in accordance with Seller's instructions.

This limited warranty is exclusive and is in lieu of all other warranties whatsoever express and implied, including but not limited to implied warranties of merchantability or fitness for a particular purpose. Any sample that may be provided by Seller shall not constitute a warranty that the products will conform to the sample. There are no oral statements, promises, representations or other warranties collateral to or affecting this limited warranty.

### LIMITATIONS OF REMEDIES AND LIABILITIES

Seller's sole liability and obligation for a breach of the warranty or any other provision of these terms shall be to repair or replace the specific nonconforming products (or part) discovered during the stated warranty period or to credit or refund the purchase price actually paid for such nonconforming products (or part), as Seller may elect.

Such product (or part) shall be shipped to Seller as specified below under "Items Shipped to Seller." Without limiting the foregoing, under no circumstances shall Seller be liable for any expenses for removal of allegedly defective product (or part) for inspection, replacement or repair or for installation costs of repaired or replaced product (or part).

Seller's liability on any claim, whether grounded in contract, tort (including negligence), any theory of strict liability or otherwise, of any kind for any loss or damage arising out of or in connection with or resulting from the sale of the products hereunder or the performance or breach hereof or the products or their performance or use is limited solely and exclusively to the remedies provided above and no other right or remedy will be available to Customer or to any person or entity. Seller will in no event be liable to any person or entity for any indirect, special, incidental, consequential, liquidated or punitive damages, any fines or penalties of any kind, any loss of profits or any other economic loss, whether or not foreseeable, to any person, property or entity, in connection with or arising out of the furnishing, performance or use of the products, whether grounded in contract, tort (including negligence), any theory of strict liability or otherwise.

All claims for breach of any of Seller's warranties shall be barred unless Customer notifies Seller of such breach in writing within 30 days of discovery of the breach.

### INSPECTIONS AND REJECTIONS

Customer shall promptly inspect all shipments of material upon delivery for physical defects, conformity to specifications and completeness including all components necessary for installation and shall notify Seller in writing of all defects, non-conformities or missing items within 15 days of delivery. Thereafter, the shipment shall be deemed accepted and assumed to be complete and Seller shall have the right to impose additional charges for allegedly missing items later requested by Customer. Defects not impairing satisfactory operation of the equipment shall not be a ground for rejection. Seller reserves the right to inspect allegedly defective goods at point of delivery or ship them to a destination of its choice. No material shall be refunded without Seller's written permission.

### MATERIAL FURNISHED BY CUSTOMER

Materials which Customer furnished for incorporation into any order shall be shipped as specified below under "Items Shipped to Seller". If material defects are found by Seller in materials furnished by Customer, Seller may notify Customer and charge it for all expenses incurred by Seller through the date of discovery of the defect. If minor defects can be repaired by Seller, Customer shall pay extra charges as are necessary to cover repair work. Shipment dates for orders where Customer furnishes material are predicated on timely receipt of such material free from defects. If any material furnished by Customer is damaged by Seller, Seller's responsibility shall be limited to the replacement cost of the material and Seller shall not be liable for any consequential or incidental damages.

### CANCELLATIONS

Orders placed by Customer may not be cancelled without Seller's written consent. If an order is cancelled by Customer, Customer will indemnify Seller against all loss, damage or expense incurred due to cancellation, including but not limited to the cost of special materials, non-resalable goods completed or in process, labor, engineering time, overhead, profit and reasonable attorneys' fees incurred to collect such losses from Customer.

### SHIPMENT

Unless otherwise quoted, shipments are F.O.B. Seller's plant. Seller's responsibility ceases upon delivery to the carrier. Delivery to destination is not guaranteed by Seller. Claims for loss or damage in transit must be made by Customer against the carrier. In the absence of shipping instructions, Seller reserves the right to ship all material upon completion by the common carrier of its choice.

Shipping dates are approximate and are based upon all information necessary to commence manufacture. Completion and shipment may be subject to delays due to causes beyond the reasonable control of Seller or its suppliers, including, without limitation, labor disruptions, labor strikes, accidents, unusually severe weather, fires or other casualties or acts of God or government.

### DEFERRED SHIPMENTS

Shipments may not be deferred beyond the specified shipment date without Seller's written consent. When shipping is deferred for Customer's convenience or due to lack of shipping instructions, failure to complete credit arrangements satisfactory to Seller, late delivery of customer supplied material or other cause attributable to Customer, Customer shall pay storage charges, interest and any other expenses incurred by Seller due to the delay. Orders on which delivery is deferred shall be invoiced upon completion of manufacture and are subject to a finance charge of at the rate of 18% per annum from time of invoice.

### ITEMS SHIPPED TO SELLER

All items shipped to Seller (including, without limitation, items being shipped for warranty work, returns of rejected materials, items being shipped to Seller for inspect and repair work and materials furnished by Customer for incorporation into any order) shall be shipped to Seller F.O.B. Seller's plant or F.O.B. at such other location as may be designated by Seller, freight prepaid by Customer. Without limiting the foregoing, Customer is responsible for insuring that all such items are securely and appropriately packed and in no event shall Seller be responsible for any loss or damage incurred in shipping any such item.

### TAXES

If prices are not stated on the front side hereof to include sales, use, excise or other taxes, then when required by law, taxes will be billed and collectible as a separate item at time of shipment unless proof of a valid exemption satisfactory to the taxing authority is provided to Seller.

### TERMS OF PAYMENT

Unless otherwise agreed, payment terms are net 30 days from the date of invoice. Invoices are dated upon shipment or, if shipment is delayed by Customer, as of the completion of manufacture. If payment is not made when due, Customer shall pay Seller a finance charge of 1.5% per month. No retainages shall be deductible from or withheld by Customer from payments due Seller. Under no circumstances shall Customer have the right to delay payment until its receipt of payment.

**All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form**

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES \_\_\_\_\_ NO

MAXIMUM ESCALATION PERCENTAGE REQUESTED \_\_\_\_\_%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF \_\_\_\_\_.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

**DELIVERY: FOB JEFFERSON PARISH**

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

**THIS SECTION MUST BE COMPLETED BY BIDDER:**

FIRM NAME:

ADDRESS:

CITY, STATE:

ZIP:

TELEPHONE:

FAX:

EMAIL ADDRESS:

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

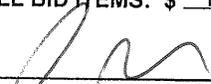
Acknowledge Receipt of Addenda: NUMBER:

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$

AUTHORIZED SIGNATURE: 

TITLE:

Printed Name

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

**NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.**

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00116903

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	<p>A ONE-TIME PURCHASE OF RAPID MIXERS FOR THE JEFFERSON PARISH WATER DEPARTMENT, EAST BANK WATER PLANT</p> <p>0010 - Philadelphia Mixing Solutions Ltd. mixer</p> <p>RAPID MIXER, EACH MIXER ASSEMBLY SHALL CONSIST OF A HEAVY-DUTY GEARBOX, ELECTRIC MOTOR CONNECTED BY A FLEXIBLE COUPLING, BASEPLATE, MIXING SHAFT AND MIXING IMPELLER</p> <p>***PER THE ATTACHED SPECIFICATIONS***</p> <p>THIS IS FOR THE PURCHASE OF THE MIXER ONLY--NO INSTALLATION IS NEEDED.</p>	41,450	82,900

**PHILADELPHIA MIXING SOLUTIONS, LTD.**

**SECRETARY'S CERTIFICATE**

The undersigned, Paul Peterson, hereby certifies that he is the duly elected and acting Secretary of Philadelphia Mixing Solutions, Ltd, a Pennsylvania corporation (the "**Company**"), and that, as such, he is duly authorized to execute and deliver this Secretary's Certificate on behalf of the Company. He hereby further certifies on behalf of the Company:

1. Each of the persons named below is a duly elected, qualified and acting officer of the Company holding the office or offices set forth opposite his or her name, and each of the persons named below has full power to act on behalf of the Company and is authorized, pursuant to the By-Laws of the Company, to execute and deliver on behalf of the Company documentation relating to negotiations, bidding, concerns and transactions with the Parish of Jefferson or any of its agencies, departments, employees or agents, including but not limited to, the execution of all bids, papers, documents, affidavits, bonds, sureties, contracts and acts and to receive all purchase orders and notices issued pursuant to the provisions of any such bid or contract, this corporation hereby ratifying, approving, confirming, and accepting each and every such act performed by said officer of the Company.

Mark E. Self	President
Nick Ciero	Vice President
Ivy Ganster	Vice President
Chris Geitner	Vice President
Paul Peterson	Vice President, Chief Financial Officer and Secretary

2. The Company is a corporation duly incorporated, validly existing and in good standing under the laws of the jurisdiction of its organization.

IN WITNESS WHEREOF, the undersigned has executed this Secretary's Certificate on behalf of the Company as of this 22 day of June, 2016.

Philadelphia Mixing Solutions, Ltd.

By 

Name: Paul Peterson

Title: Secretary

**Non-Public Works Bid**

**AFFIDAVIT**

STATE OF Pennsylvania

PARISH/COUNTY OF Lebanon

BEFORE ME, the undersigned authority, personally came and appeared: \_\_\_\_\_  
Nick Cicero, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized Executive VP of Philadelphia Mixing Solutions Ltd. (Entity),  
the party who submitted a bid in response to Bid Number 50-00116903, to the Parish of  
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

Choice A \_\_\_\_\_ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

Choice A \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X \_\_\_\_\_ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

*Nick Cicero*

Signature of Affiant

*NICK CICERO*

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 29 DAY OF June, 2016.

*Colleen M. Boeckelmann*

Notary Public

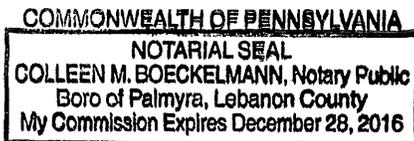
Colleen M. Boeckelmann

Printed Name of Notary

1211827

Notary/Bar Roll Number

My commission expires 12/28/2016.



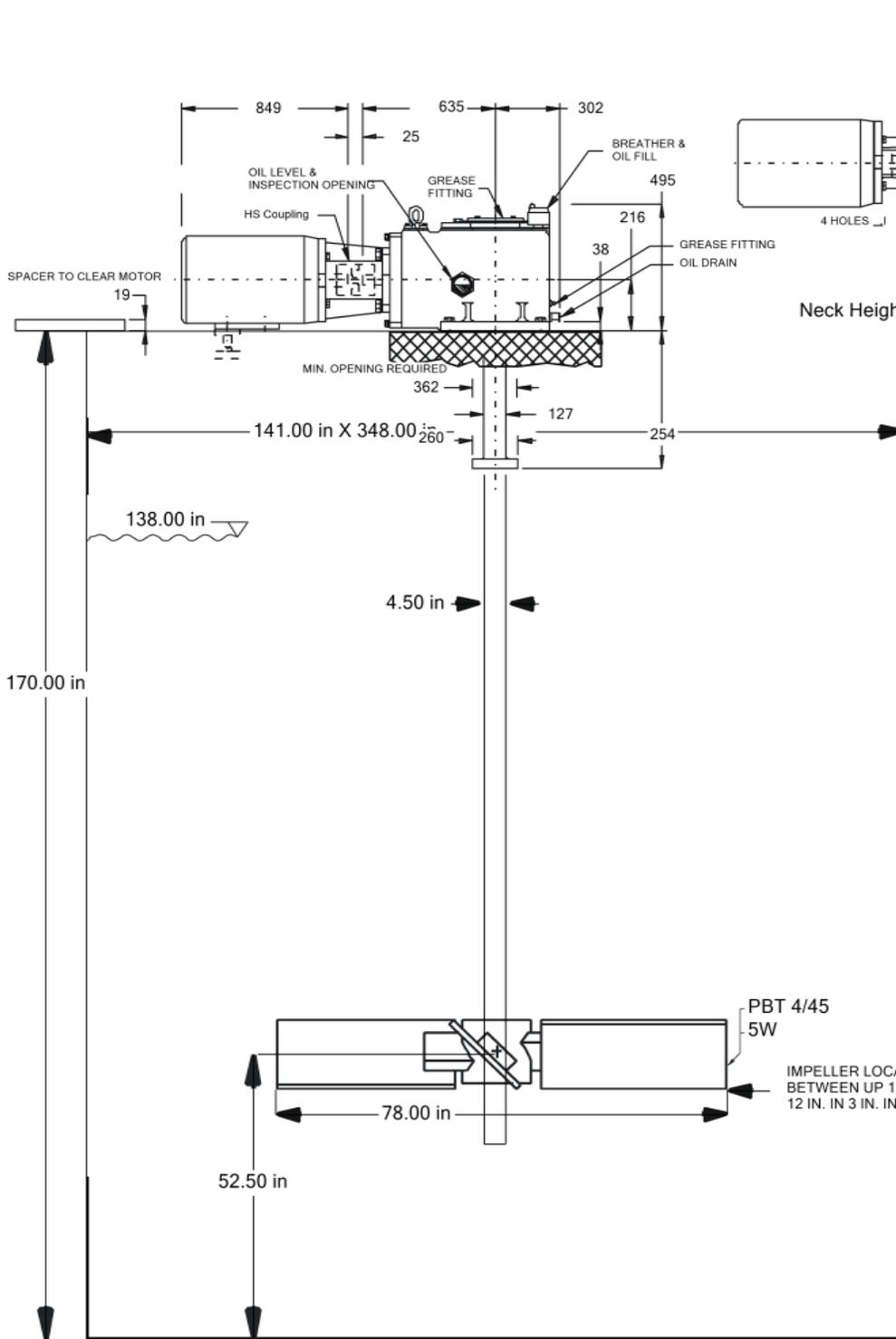


Serial Number:

Drawing Number:

Equipment Number:

Rev.:



Neck Height: BOTTOM VIEW

**Caution**

1. All dimensions are in inches (unless stated otherwise)
2. Mounting hardware provided by others
3. Mixer design loads include suitable service factor
4. This drawing is not to scale

Customer Information

Customer Name

**Jefferson Parish Rapid Mix**  
Project Name

Customer PO No.

Customer Inquiry No.

Order No.

PMSL Inquiry No.

Drive & Motor

3859M-S	25.60 :1	PTOB 5.0 Intank
Drive Type	Gear Ratio	Mount Type

46.9	CW	2.00(100000hrs)	
Nominal RPM	Spin	Service Factor	Bearing Life

40.00 HP	1200	364TC
Motor HP	RPM	Frame

TEFC	NEMA MILL/CHEM	Premium
Enclosure	Duty	Efficiency

Tank & Environment

Open Tank	Flat
Top Head	Bottom Head

Flat	4	0.00 in	0.00 in
Baffles Type	Baffles No.	Width	Length

2005.00 gal	1.00 S.G.	1.01 cP
Liquid Volume	Density	Viscosity

14.70 PSI	68.00 °F	0.00
Process Pressure	Temperature	Solids Conc.

Wetted Parts

S/S 316	S/S 316
Wetted Parts Material	Hardware Material

Impeller Manufacture Method      Hub Mounting Method

Mixer Design Loads

6099 lb	78038 lb-in
Static Weight	Weight Moment

108780 lb-in	206322 lb-in
Dynamic Torque	Dynamic Moment

1593 lbs	
Dynamic Shear	

Weight

2005 lb	770 lb
Gearbox	Motor

1291 lb	4066 lb
Wetted Parts	Total

THE MIXER SUPPORT STRUCTURE MUST BE LEVEL WITHIN 0.12° AND IS TO BE DESIGNED SUCH THAT THE DYNAMIC ANGULAR DEFLECTION OF THE DRIVE IS LIMITED TO 0.12° IN ANY DIRECTION.

TANK, BAFFLES, MIXER SUPPORT AND MOUNTING HARDWARE BY OTHERS

THIS DRAWING IS THE PROPERTY OF PHILADELPHIA MIXING SOLUTIONS, LTD AND IS SUBJECT TO RETURN UPON REQUEST. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS EXPRESSLY LOANED AND IT IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THIS CORPORATION.

Approved (Initial)

Date

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Page