



# Memorandum

## MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

Reviewed by: [Signature] Date: 2/8/19  
General Manager

DATE: February 8, 2019  
TO: General Manager  
FROM: Senior Engineer  
SUBJECT: MRF Maintenance Access Improvements

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**RECOMMENDATION:** That the Board authorize the General Manager to execute a contract with Mathews Mechanical for Materials Recovery Facility (MRF) Maintenance Access Improvement in the amount of \$75,947 (includes 5% contingency).

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### BACKGROUND

The MRF 2.0 system went operational in February of 2018. MRF 2.0 replaced the original equipment installed in 1996. In the year since MRF 2.0 went operational, District staff has learned to operate and maintain the new equipment. During that time, District staff identified "hot spot" locations that were prone to frequent material jams and/or required frequent maintenance. These jams translated to significant operational down time for the MRF. In some cases, this down time lasted over an hour while maintenance crews put on fall protection harnesses, drove an aerial lift to gain access, established safe work conditions, and finally addressed the situation. Over the past year these "hot spot" areas were identified and compiled onto a list. The list was sent to the engineering department with a request that engineering assess the "hot spots" and determine if any improvements could be made that would increase ease of access, safety, and response time. The engineering team's approach was to eliminate the fall hazards that required maintenance staff to wear harnesses by providing fall prevention devices (like railings or walls). And also, to provide easier access to "hot spots" by adding locking gates, stairs and tie off points that eliminate the need to mobilize an aerial lift. Making these improvements will greatly increase the response time to jams and decrease the time to get the equipment back up and running. The proposed improvements will save time, money and ultimately improve the MRF's production.

### DISCUSSION

District staff contacted three vendors for engineering/construction assessments and quotes on the maintenance access improvements. Two of the three vendors proposed systems that focused on fall protection instead of fall prevention. Mathews Mechanical offered engineered fall prevention systems and had extensive experience with conveyor systems and MRFs.

## FINANCIAL IMPACT

The budget proposal provided by Mathews Mechanical for the MRF Maintenance Access Improvements is \$72,331, District staff has added a 5% contingency amount due to the need for final engineering for a total budgeted cost of \$75,947 for the scope of work. This was not included in the 2018/19 budget amount and will be covered under the \$13.28 million Capital Equipment Budget for FY 2018/19.

## STRATEGIC PLAN

The MRF Maintenance Access Improvements fit under several general policy directives cited in the District's "Pillars of Sustainability" plan.

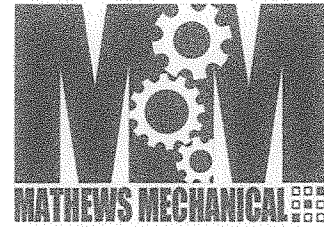
- People. The improvements provide MRF maintenance staff with the tools they need to do their job. The improved access will enable them to access "hot spots" faster and safer than they had previously.
- Finance. The improvements provide greater "up" time through improved response time to jams making the MRF operate more reliably, which means MRF staff hours can be spent processing material rather than waiting for the system to come back online.

## CONCLUSION

The MRF Maintenance Access improvements will have multiple benefits to the District's staff and financials. This involves greater safety and uptime at the MRF. Staff therefore recommends the Board authorize the General Manager to execute a contract for MRF Maintenance Access Improvements with Mathews Mechanical for \$75,947 (including 5% contingency).

  
David Ramirez, P.E.

Attachments:  
Mathews Mechanical Quote



January 24, 2019

Monterey Regional Waste Management District  
14201 Del Monte Blvd  
Marina CA. 93933  
ATTN: David Ramirez

Quote #: 12385-SC

Project: Fall protection on requested areas (Budgetary Quote)

Sir,

Thank you for the opportunity to assist you with this project, we are pleased to offer our services in the following:

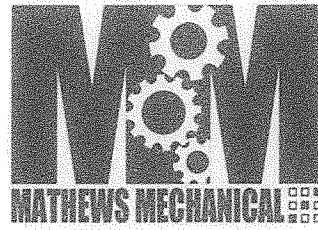
**Scope:**

We will supply the Equipment, Materials, Engineering and Parts required to install various Fall Protection in the area's that you have requested.

1. **C006** - We will install (2) D-Rings at the locations you have requested.
2. **C042** - We will install (2) D-Rings at the locations you have requested.
3. **C010** - We will install (2) approx. 12ft of Rails, (1) Gate and (1) ladder at that location.
4. **C054** - We will install (2) D-Rings and (1) Gate at the location you have requested.
5. **C056** - We will install (1) Gate at this location.
6. **C088** - We will install (4) Rail Sections, total approx. 24ft at this location.
7. **C088N** - We will install (1) Choker with Tie Off Ring at this location.
8. **C098S** - Install (8) D-Rings and cut door openings into (2) access panels in the locations that you have requested.
9. **C098S** - Re-enforce the bottom leg of access ladder.
10. **C158E** - Install approx. 30ft of Wall on each side of the conveyor (60ft total) and we will install (2) Poles with D-Ring attachments at this location.
11. **C158W** - We will install (1) D-RING, (1) SRL ULTRA LOK 20ft SS at this location.
12. **C058** - Install 16ft approx. of Rail, (1) Ladder, and (1) Gate, at this location.

**Note:**

1. This pricing is for budgetary purpose only.
2. This pricing is based on the installation not requiring extensive structural modifications to the equipment to support the added Fall Protection.
3. If our engineer recommends extensive structural modifications to the installation locations, we will discuss with you and provide a quote for the additional structural modifications.
4. This pricing is based on Mathews Mechanical having complete access to the equipment locations during the installation.
5. Pricing based on Mathews Mechanical working Monday - Saturday 10hrs per day.
6. This pricing does not include the cost of Rental Equipment. If your personnel and material handling equipment is not available to us during installation, additional charges will be applied.
7. This pricing does not include Permits or Special Inspections.



**Pricing for the project will be:**

<b>Materials:</b>	<b>\$11,642.00</b>
<b>Rental Equipment:</b>	<b>\$0.00</b>
<b>Engineering:</b>	<b>\$8,700.00</b>
<b>Fabrication Labor:</b>	<b>\$11,077.00</b>
<b>Installation Labor:</b>	<b>\$38,640.00</b>
<b>Estimated Tax:</b>	<b><u>\$2,272.00</u></b>
<b>Total:</b>	<b>\$72,331.00</b>

This proposal assumes Prevailing Wage rates for installation time. Any other wage rate considerations may affect pricing.

If you have any questions, please give me a call at (510) 475-9950. Thank you again for the opportunity to work with you. I look forward to hearing from you soon.

Sincerely,

*Leo Villanueva*

Leopoldo Villanueva  
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Mathews Mechanical  
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*Steve Cribbs*

Steve Cribbs  
Sales Representative  
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*This quote is based on clear access to the worksite during shutdown hours, Monday thru Friday 4pm to 3am and Saturday 7:30am-4:30pm.*

*Any unforeseen equipment or materials not addressed in this quote that is required for the work may result in an increase in cost.*

*Delivery time will be determined upon receipt of order.*

*Our terms are 50% deposit, 2/10 with balance due net 20 days after delivery.*

*Applicable tax and shipping is **not** included in this quote and is the responsibility of the buyer.*

*Any deviation from the proposed plan may result in a change of cost.*

*Our standard warranty for this type work is 90 days on workmanship with materials as warranted by the manufacturer.*

*Pricing is valid for 30 days and must be reviewed again if accepted after 30 days.*

*All drawings pertaining to this project created by Mathews Mechanical are property of Mathews unless contracted otherwise.*

*All engineering is assumed to be proprietary and will remain in Mathews' ownership unless clearly agreed to in this or another contract.*