



**Metro**

Metropolitan Transportation Authority

One Gateway Plaza  
Los Angeles, CA 90012-2952

213.922.2000 Te  
metro.net

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**OPERATIONS COMMITTEE  
JANUARY 15, 2009**

**PROJECT: MRL BRIDGES AND TUNNELS PROTECTION PHASE I**

**ACTION: APPROVE CONTRACT AWARD OP26102253**

**RECOMMENDATION**

Authorize the Chief Executive Officer to award a firm fixed price contract, Contract No. OP26102253, with JM Fiber Optics, to provide a tunnel intrusion system to be deployed on the Metro Red Line (MRL) for the amount not to exceed \$1,076,628 inclusive of a 10% contingency.

**RATIONALE**

Currently the only intrusion protection on the MRL platforms is located on the end of platform gates. There are no systems in place to detect an intrusion onto the MRL right-of-way from the station platforms.

The MRL Tunnel Intrusion System will provide detection of a person or object entering the MRL right-of-way from a platform. The system can tell the difference between a person and a train. It will not alarm when a train enters the station. The Tunnel Intrusion System is using proven off the shelf technology that has been adapted for the rail environment.

The MRL Tunnel Intrusion System will be tied to the Metro Video Security System (MVSS). This will be the first enhancement to the MVSS since it was installed as part of Project Guardian. When an intrusion is detected, the cameras of the MVSS will activate and turn to isolate the location of the intrusion. The MVSS will provide the second layer of intrusion detection using the existing video analytics that are currently incorporated on the existing MVSS digital video recorders.

This contract will procure all equipment and software needed to install the new MRL Tunnel Intrusion System.

## **FINANCIAL IMPACT**

Funding of \$1,340,000.00 for this contract is included in the life-of-project budget in cost center 2610 (System Security & Law Enforcement), project 204084 (MRL Bridges and Tunnel Protection Project Phase I), Line Item/Account 53102 (acquisition of equipment), Task 09.001.

## **ALTERNATIVES CONSIDERED**

We have evaluated the possibility of not installing the Tunnel Intrusion System on the Red Line. This alternative is not recommended. Unprotected right-of-way exposes us to unacceptable operational risks due the critical safety nature of this system.

## **ATTACHMENT(S)**

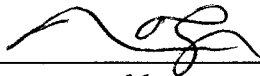
- A Procurement Summary
- A-1 Procurement History
- A-2 List of Subcontractors
- A-3 Bid Tabulation

Prepared By: Daniel Lindstrom, Manager, Wayside Systems Communications  
Diane Ly, Contract Administrator  
Aida Asuncion, Deputy Executive Officer, Rail Operations



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Mike Cannel  
General Manager, Metro Rail Operations



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Roger Snoble  
Chief Executive Officer

**BOARD REPORT ATTACHMENT A  
PROCUREMENT SUMMARY**

**TUNNEL INTRUSION DETECTION SYSTEM (TIDS) EQUIPMENT**

1.	Contract Number: OP26102253		
2.	Recommended Vendor: JM Fiber Optics, Inc.		
3.	Cost/Price Analysis Information:		
	A. Bid/Proposed Price: \$1,076,627.44	Recommended Price: \$1,076,627.44	
	B. Details of Significant Variances are in Attachment A-1.D		
4.	Contract Type: Firm Fixed Price		
5.	Procurement Dates:		
	A. Issued: August 26, 2008		
	B. Advertised: August 29, 2008		
	C. Pre-bid Conference: N/A		
	D. Bids Due: September 30, 2008		
	E. Pre-Qualification Completed: N/A		
	F. Conflict of Interest Form Submitted to Ethics: December 8, 2008		
6.	Small Business Participation:		
	A. Bid Goal: DBE: 0%	Date Small Business Evaluation Completed: N/A	
	B. Small Business Commitment: N/A		
7.	Invitation for Bid/Request for Proposal Data:		
	Notifications Sent: 2	Bids/Proposals Picked up: 43	Bids/Proposals Received: 1
8.	Evaluation Information: See Bid Tabulation		
	A. Bidders/Proposers Names: JM Fiber Optics	Bid/Proposal Amount: \$ 1,076,627.44	Best and Final Offer Amt: N/A
	B. Evaluation Methodology: Procurement is in compliance with Procurement policies and procedures.		
9.	Protest Information:		
	A. Protest Period End Date: January 20, 2009		
	B. Protest Receipt Date: TBD		
	C. Disposition of Protest Date: TBD		
10.	Contract Administrator: Diane Ly	Telephone Number: 213-922-1102	
11.	Project Manager: Daniel Lindstrom	Telephone Number: 213-922-3121	

**BOARD REPORT ATTACHMENT A  
PROCUREMENT HISTORY**

**TUNNEL INTRUSION DETECTION SYSTEM (TIDS) EQUIPMENT**

**A. Background on Contractor**

JM Fiber Optics, Inc. located in Chino, CA, has been in business for sixteen (16) years and its principal business is voice, video, and data communications equipment. JM Fiber Optics has been the successful bidder on previous Metro procurements and its performance on those procurements was satisfactory. JM Fiber Optics has also done business with the Metrolink, North County Transit District, New York City Transit, the federal government and armed forces branches.

JM Fiber Optics, Inc. has recently implemented its ISO 9001-2000 compliant quality system and is quality certified from General Dynamics Network Systems, Lockheed Martin Systems Integration, Bechtel Nevada, and JPL. JM Fiber Optics has a certified fiber optic trainer and test administrator by Fujitsu, Siemens, and Lucent Technologies. JM Fiber Optics is a certified small disadvantaged minority business enterprise (MBE, MBE, and DBE). In 2007, JM Fiber Optics received the Minority Business of the Year in Science and Technology from the City of Los Angeles for its development of the Transit Passenger Information System (TPIS) for Metro.

**B. Procurement Background**

IFB No. OP26102253 was conducted as a two-phase “brand name or approved equal” procurement. Phase I provided potential bidders the opportunity to submit their requests for approved equals to the tunnel intrusion detection system equipment, and in Phase II, sealed bids were due with one (1) bid received.

The Diversity and Economic Opportunity Department (DEOD) did not recommend a Disadvantaged Anticipated Level of Participation (DALP) goal for this procurement due to lack of subcontracting opportunities.

**C. Evaluation Criteria**

A single bid was received by JM Fiber Optics, Inc. for the subject procurement. The Source Selection Committee conducted a comprehensive evaluation of the bid in accordance with the evaluation criteria contained in the IFB and determined the bid to be in compliance with Metro’s technical specifications. Therefore, JM Fiber Optics’ bid is considered to be responsive.

**D. Cost/Price Analysis**

The recommended price has been determined to be fair and reasonable based upon a thorough price analysis.

**BOARD REPORT ATTACHMENT A-2  
LIST OF SUBCONTRACTORS**

**TUNNEL INTRUSION DETECTION SYSTEM (TIDS) EQUIPMENT**

PRIME CONTRACTOR

JM Fiber Optics, Inc.

Small Business Commitment

0%

Other Subcontractors

None

Total Commitment 0%

**ATTACHMENT A-3  
 BID TABULATION  
 IFB No. OP26102253 TUNNEL INTRUSION DETECTION SYSTEM (TIDS) EQUIPMENT**

Bids Out: 08/26/08 Total 43  
 Bids Opened: 09/30/08 Total 1  
 Advertisement Date(s): 08/29/08  
 Newspaper: Daily News, Daily Breeze and La

		JM Fiber Optics, Inc.			
Item No.	Description	Qty	Unit	Unit Price	Total Price
1	Alarm Processing Unit (APU)	32	EA	\$3,150.00	\$100,800.00
2	APU Shelf with Power Supply	16	EA	\$1,240.00	\$19,840.00
3	Fiber Mat with Embedded Sensors	68	EA	\$7,650.00	\$520,200.00
4	Fiber Mat Connection Kit	68	EA	\$495.00	\$33,660.00
5	Sensor Cables	3,400	FT	\$4.00	\$13,600.00
6	Calibration Software (Unlimited License)	1	EA	\$1,995.00	\$1,995.00
7	Notification Software (User License)	10	EA	\$6,600.000	\$66,000.00
8	User Manuals	10	SET	\$150.00	\$1,500.00
9	Maintenance and Rail Operations Training	4	SES	\$1,995.000	\$7,980.00
10	Technical Support	1	LOT	\$229,000.00	\$229,000.00
		Subtotal			\$994,575.00
		Sales Tax 8.25%			\$82,052.44
		<b>Total</b>			<b>\$1,076,627.44</b>

I hereby certify JM Fiber Optics as being the lowest responsive, responsible bidder and recommend the award to them for total price, including sales tax, of \$1,076,627.44

12-22-08  
Date

*James Jy*  
Signature

