



**OPERATIONS COMMITTEE  
JANUARY 18, 2007**

**PROJECT: RAIL SECURITY IMPROVEMENTS – INTRUSION DETECTION  
SYSTEM ENHANCEMENTS**

**CONTRACT: C0772, MRL INTRUSION DETECTION SYSTEM ENHANCEMENTS**

**ACTION: EXECUTE CONTRACT MODIFICATION TO AUTOMATED  
SWITCHING AND CONTROLS, INC.**

**RECOMMENDATION**

Authorize the Chief Executive Officer to:

- A. Negotiate and execute Contract Modification No. 2 to Contract No. C0772 with Automated Switching and Controls, Inc. (ASCI) to provide additional security enhancements on the Metro Red Line (MRL) in the amount not to exceed \$418,070, and
- B. Execute contract modifications for this procurement only in the amount not-to-exceed \$107,530 for a Total Contract Value not to exceed \$2,568,270.

**RATIONALE**

The Intrusion Detection System (IDS) has been in service since the opening of the Metro Red Line (MRL) in 1993. This system is used by Rail Operations Control (ROC) to monitor authorized and unauthorized entries into specific areas of MRL stations. These areas include roll-up grilles, traction power substations, auxiliary power substations, train control and communication rooms, auxiliary power rooms, sprinkler valve rooms, electrical cable rooms, electrical equipment rooms, emergency exits and hatches. After the system upgrade installed as part of Metro Red Line Segment-2B, ROC received a number of false alarms when authorized employees exited monitored rooms. Rail Operations then compiled a list of enhancements to improve the system. The system, which utilizes hardware and software manufactured by Johnson Control, will be expanded by installing intrusion detection devices in unmonitored MRL rooms, Emergency Management Panels, and roll-up grille control panels. Electronic hardware (optical sensors) will also be added to eliminate false alarms incurred when authorized employees exit monitored rooms. Additionally, street hatch emergency exits will be upgraded with new alarm control panels.

On September 9, 2005, Contract No. C0772 was awarded to Automated Switching and Controls, Inc. in the amount of \$1,868,270. The Notice to Proceed was issued on October 11, 2005. The contract is anticipated to be completed by April 2007.

On August 24, 2006 the Board approved Contract Modification No. 1 to increase the security installation by 400 devices including an additional workstation to be installed at ROC to monitor intrusion. The software on the IDS server will be upgraded to use the Microsoft Windows-based operating system.

This action, Modification No. 2, will provide additional security at the Metro Red Line traction power rooms by installing badge readers and optical sensors.

These recommended actions will ensure sufficient contract modification authority to complete the contract and to allow for unanticipated and unforeseen changes, without delaying the contractor in the completion of this contract (See Attachment B).

### **FINANCIAL IMPACT**

The funds for this action are available within the Board approved Rail Security Improvements Capital Project 205004 Life of Project (LOP) budget of \$6,469,000.


### **ALTERNATIVES CONSIDERED**

The Board may choose to not authorize the requested contract modifications for CP 205004 Rail Security Improvements - Intrusion Detection System Enhancements. However, this is not recommended, as it would result in the delayed implementation of increased security measures at Metro.

### **ATTACHMENTS**

- A Procurement Summary
- A-1 Procurement History
- A-2 List of Subcontractors

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Gerald Francis  
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Roger Snoble  
Chief Executive Officer

**BOARD REPORT ATTACHMENT A  
PROCUREMENT SUMMARY**

**MRL INTRUSION DETECTION SYSTEM ENHANCEMENTS**

1.	Contract Number: C0772, Modification No. 2, Additional Security enhancements		
2.	Recommended Vendor: Automated Switching and Controls, Inc. 6621 Calle Eva Miranda Irwindale, CA 91706		
3.	Cost/Price Analysis Information:		
	A. Bid/Proposed Price: \$418,070	Recommended Price: \$TBD - Not to Exceed \$418,070	
4.	Contract Type: Firm Fixed Price		
5.	Procurement Dates:		
	A. Issued: 10/05/06		
	B. Advertised: N/A		
	C. Pre-proposal Conference: N/A		
	D. Proposals Due: 11/13/06		
	E. Pre-Qualification Completed: N/A		
	F. Conflict of Interest Form Submitted to Ethics:		
6.	Small Business Participation:		
	A. Bid/Proposal Goal:	Date Small Business Evaluation Completed:	
	B. Small Business Commitment: 100% Details are in Attachment A-2		
7.	Invitation for Bid/Request for Proposal Data:		
	Notifications Sent: N/A	Bids/Proposals Picked up: N/A	Bids/Proposals Received: N/A
8.	Evaluation Information: N/A		
9.	Protest Information:		
	A. Protest Period End Date: N/A		
	B. Protest Receipt Date: N/A		
	C. Disposition of Protest Date: N/A		
10.	Contract Administrator: Brian P. Mahaffey	Telephone Number: (213) 922-7327	
11.	Project Manager: Glenn Lee	Telephone Number: (213) 922-3230	

**BOARD REPORT ATTACHMENT A-1  
PROCUREMENT HISTORY**

**C0772, MRL INSTRUCTION DETECTION SYSTEM ENHANCEMENTS**

**A. Background on Contractor**

Automated Switching and Controls, Inc. (ASCI) is a Pasadena, California corporation established as a high tech company providing communications systems, access control and security systems in business for more than 13 years. ASCI previously developed communications equipment for Metro under the contract for train collision avoidance system and performance was satisfactory.

**B. Procurement Background**

On August 24, 2006, the Board approved Contract Modification No. 1 which increased the security installation by 400 devices. An additional workstation will be installed at Rail Operations Control to monitor intrusion. The software on the IDS server will be upgraded to use the Microsoft Windows-based operating system.

Contract Modification No. 2 will provide additional security at the Metro Red Line traction power rooms.

This will be a negotiated change to the existing contract for additional materials and security equipment required to enhance the Intrusion Detection System of the Metro Red Line beyond the scope of work required in the base contract and under Modification No. 1.

**C. Evaluation of Proposals**

The Contractor's proposal is being audited by MASD. Based on the audit, a technical analysis and cost analysis of the proposal, a negotiation plan will be prepared and approved, and then negotiations will occur.

**D. Cost/Price Analysis Explanation of Variances**

The recommended price will be determined to be fair and reasonable based upon the estimate, audit, cost analysis and the negotiations.

Bid/Proposal Amount	MTA Estimate	Recommended/Negotiated Amount
\$418,070	**\$	Not to Exceed \$418,070

\*\*Not to be disclosed before negotiations

One modification has been executed to date for this Contract totaling \$174,400. Another modification is pending for this Contract in an amount not to exceed \$418,000.

CONTRACT MODIFICATION AUTHORITY

Change	Description	Amount
CN 1	Increase the security installation, procure additional workstation, and upgrade server software to Microsoft Windows-based operating system.	\$ 174,400
CN 2	Add security devices at the MRL traction power areas.	\$ 418,070
	<b>Subtotal</b>	<b>\$ 592,470</b>
N/A*	Approximately 5.8% of the original Total Contract Price	\$107,530
	<b>Total Contract Modification Authority</b>	<b>\$700,000</b>

\*Additional CMA Allowance for Unforeseen Changes

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

**MRL INTRUSION DETECTION SYSTEM ENHANCEMENTS**

**PRIME CONTRACTOR –**

Automated Switching and Controls, Inc. 96.25%

**Small Business Commitment**

**Other Subcontractors**

Century Diversified, Inc. 3.75%

Total Commitment 100%

