

- **Board of Directors**  
**Engineering, Operations and Real Property Committee**

May 15, 2001 Board Meeting

---

10-2

---

**Subject**

---

Status report for the Inland Feeder Project for the month ending March 2001

**(Any discussion of claims will be heard in closed session – conference with legal counsel – significant exposure to litigation (two matters) pursuant to Gov. Code § 54956.9[b].)**

---

**Description**

---

**Arrowhead Tunnels**

Redesign activities related to the Arrowhead West Tunnel and the remaining portion of the Arrowhead East Tunnel are complete. The final drawings and specifications checkset are in review. The United States Forest Service (USFS) is expected to issue an amended Special-Use Permit to proceed by mid-2001. A request will be submitted to the Board in April 2001 to allow the General Manager to accept the permit and advertise the Arrowhead Tunnels if the conditions of the permit are consistent with agreements established in prior discussions with the USFS.

Staff completed its evaluation of five alternative contingency alignments as a potential replacement for the Arrowhead Tunnels. An oral and written report was given to the Board in November 2000, and question-and-answer sessions were held at the December 2000 and January 2001 Engineering and Operations Committee (now Engineering, Operations and Real Property Committee) meetings.

**Arrowhead West Tunnel – Reach 1**

Metropolitan has received the contractor's submittal of costs regarding the delay and deletion of mining. Staff is reviewing and evaluating the submittal. Negotiations will be initiated with the contractor following the review.

**Arrowhead East Tunnel – City Creek Heading – Reach 2**

The contractor completed installing the final impermeable liner (8,000 feet). Approximately 4,000 feet of concrete backfill behind the liner is complete. Work is scheduled for completion by late-2001. Negotiations with the contractor regarding closure of City Creek portal are complete and extra work orders have been issued to complete the work.

**Highland Pipeline – Reach 3**

Design activities have been placed on hold pending receipt of the amended Special-Use Permit from the USFS.

**Mentone Pipeline – Reach 4**

The contractor installed 2,500 feet of pipe during the reporting period for a total of 16,600 feet to date (83 percent complete). This reach is scheduled for completion in late-2001.

**Riverside Badlands Tunnel – Reaches 5 & 6**

In March, the tunnel boring machine (TBM) advanced another 1,650 feet for a total of 33,200 feet (80 percent complete). Ground conditions have improved from previous months, which has resulted in increased mining rates. The contractor continues to perform grouting as necessary to reduce groundwater inflows ahead of the TBM (see [Attachment 1](#) for a summary of tunneling progress).

**Budget and Schedule**

Based on proceeding with the existing project, which includes the construction of the Arrowhead Tunnels, the projected total cost for the program is \$980 million with a completion date of late 2006. Total expenditures

through March 2001 are \$517.0 million (see [Attachment 2](#) for a financial summary/project cash flow and [Attachment 3](#) for a budget comparison and schedule summary). The project budget remains unchanged at \$1.1865 billion.

**Policy**

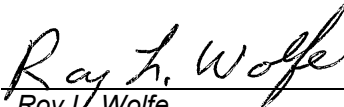

---

Board Request.

**Fiscal Impact**

---

Refer to the attachments.

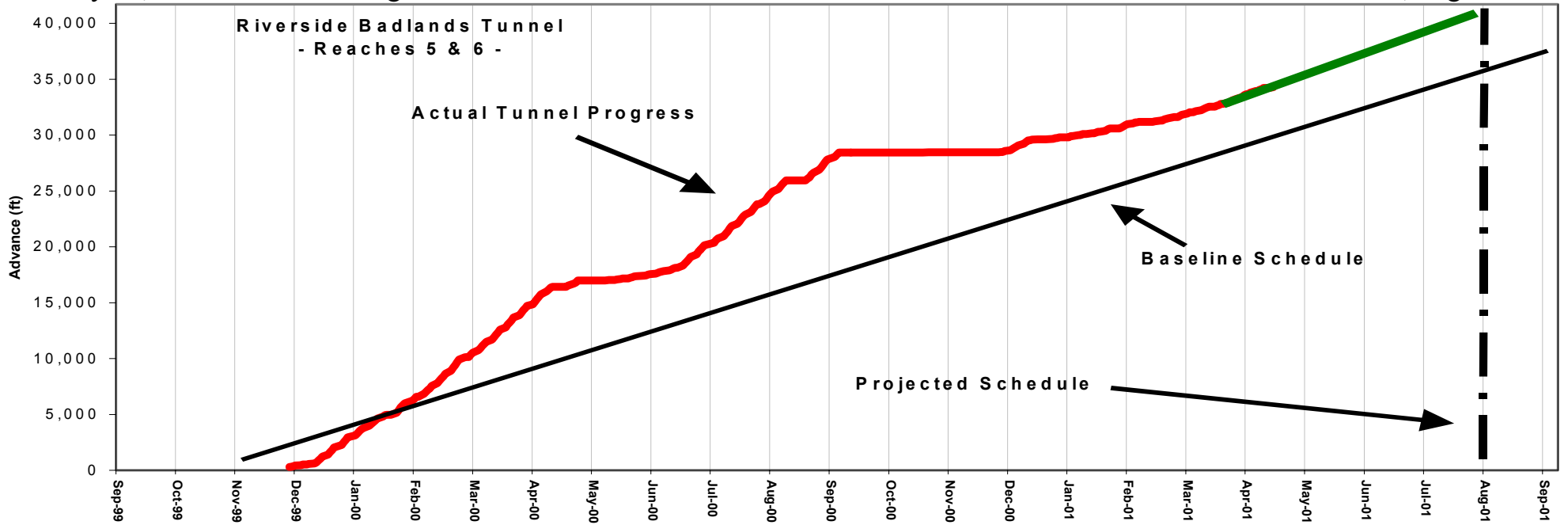
 Roy L. Wolfe Manager, Corporate Resources	4/23/2001 Date
 Ronald R. Jester General Manager	4/23/2001 Date

[Attachment 1 – Riverside Badlands Tunneling Progress](#)

[Attachment 2 – Financial Summary/Project Cash Flow](#)

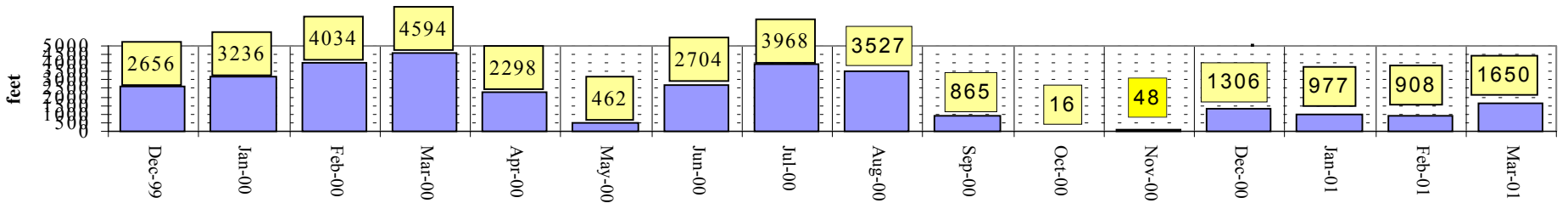
[Attachment 3 – Budget Comparison and Schedule Summary/Remaining Budget](#)

BLA #750

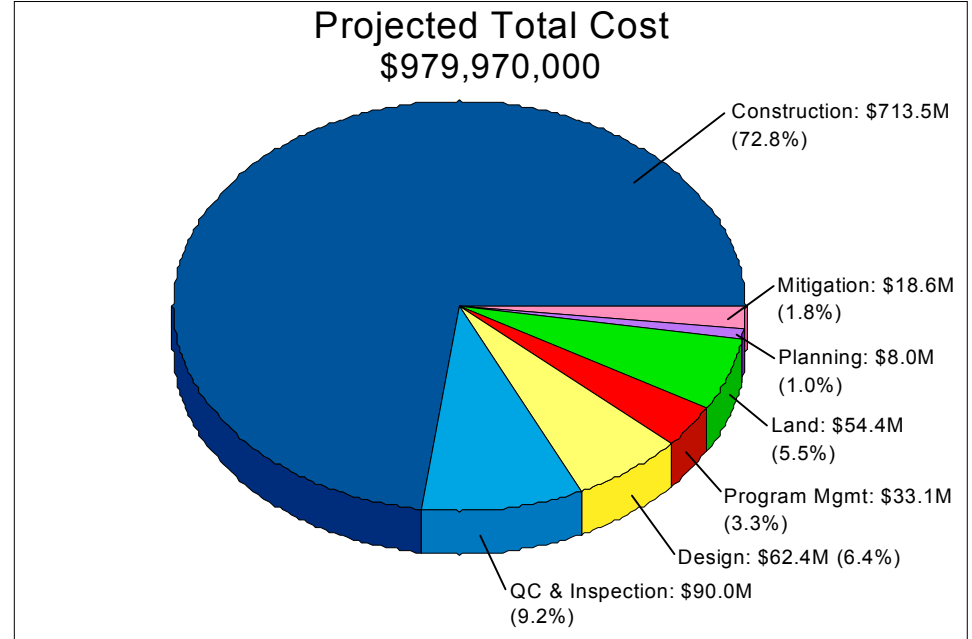
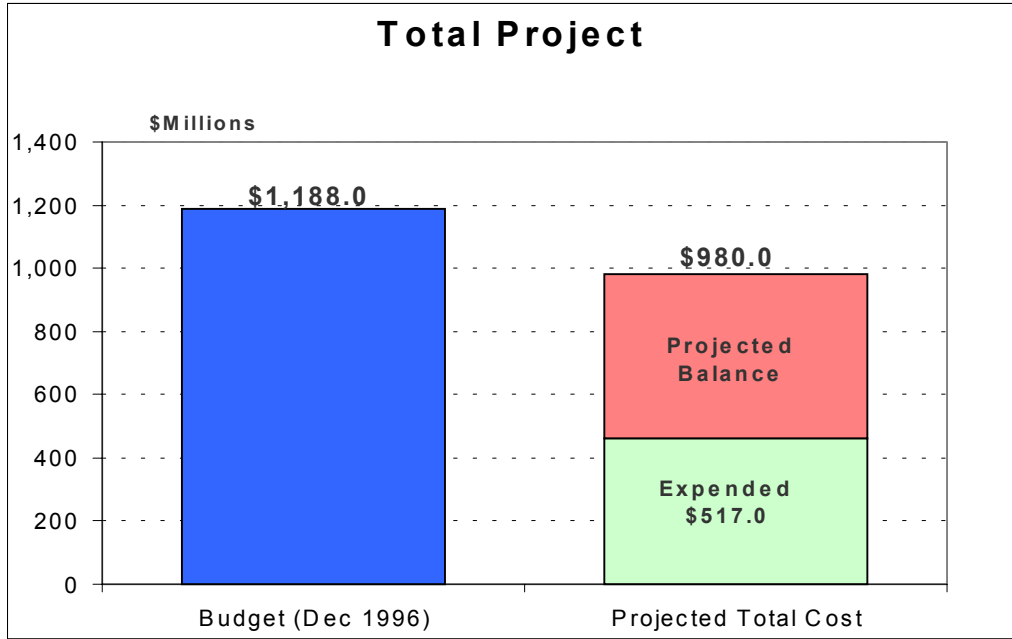


**Monthly Tunnel Progress  
Riverside Badlands Tunnel  
Reaches 5 & 6**

Total Tunnel Length = 41,719 feet  
% Tunnled (03/31/01) = 33,200 feet (80%)

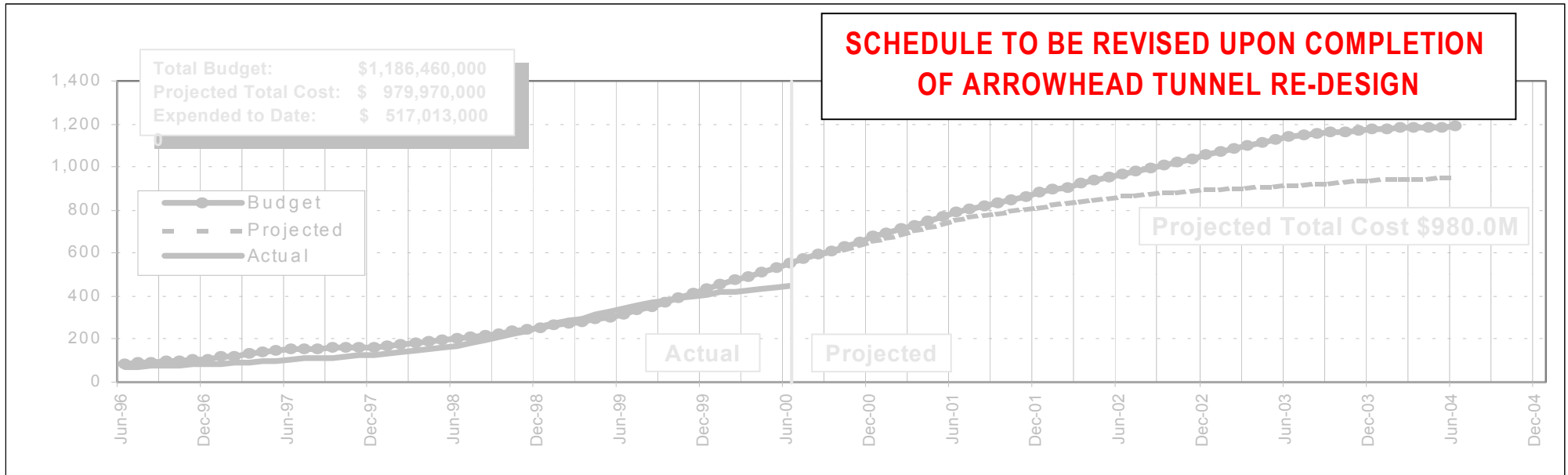


# Financial Summary



1. Based on knowledge of current field conditions.

## Project Cash Flow



**Budget Comparison and Schedule Summary**

	PRELIMINARY REBASELINE (JUN-2000) <sup>(1)</sup>	FORECAST (MAR-01)	ACTUALS THRU (MAR-01) <sup>(2)</sup>	PROGRESS		COMPLETION DATE		COMMENTS
				PLANNED % COMPLETE	ACTUAL % COMPLETE (MAR-01) <sup>(4)</sup>	CONTRACT (5)	FORECAST (MAR-01)	
<b>Construction Reaches</b>								
Arrowhead West Tunnel	\$ 211,728,000	\$ 210,188,000	\$ 56,176,000	----	25%	Dec-02	T.B.D.	On hold.
Arrowhead East Tunnel	\$ 281,607,000	\$ 281,607,000	\$ 125,884,000	----	38%	Jan-03	T.B.D.	On hold.
Highland Pipeline <sup>(3)</sup>	\$ 57,199,000	\$ 51,813,000	\$ 7,217,000	0%	0%	-----	T.B.D.	In Design.
Mentone Pipeline	\$ 35,056,000	\$ 40,442,000	\$ 30,845,000	35%	78%	Mar-02	Oct-01	Under construction.
Riverside Badlands Tunnel	\$ 142,534,000	\$ 142,534,000	\$ 101,865,000	55%	63%	Aug-03	Apr-02	Under construction.
Riverside North Pipeline	\$ 57,984,000	\$ 57,984,000	\$ 55,254,000	100%	100%	Completed	Nov-99	Completed Nov. 99
Riverside South Pipeline	\$ 42,358,000	\$ 42,358,000	\$ 42,351,000	100%	100%	Completed	Aug-99	Completed Aug. 99
<b>Construction Support</b>								
Right-of-Way and Land	\$ 54,448,000	\$ 54,448,000	\$ 42,704,000	-----	78%	-----	-----	-----
Environmental Planning/Mitigation	\$ 18,598,000	\$ 18,598,000	\$ 11,114,000	-----	60%	-----	-----	-----
Owner Controlled Insurance Prog.	\$ 38,889,000	\$ 38,889,000	\$ 16,927,000	-----	44%	-----	-----	-----
Study/Initial Planning	\$ 8,024,000	\$ 8,024,000	\$ 8,024,000	-----	100%	-----	-----	-----
Program Management	\$ 33,085,000	\$ 33,085,000	\$ 18,652,000	-----	56%	-----	-----	-----
<b>Projected Total Cost</b>	<b>\$ 981,510,000</b>	<b>\$ 979,970,000</b>	<b>\$ 517,013,000</b>					
<b>Remaining Budget</b>	<b>\$ 206,490,000</b>	<b>\$ 206,490,000</b>						
<b>Total Approved Budget</b>	<b>\$ 1,188,000,000</b>	<b>\$ 1,186,460,000</b>						

- (1) Based on 30% design for Arrowhead Tunnels
- (2) Actuals for construction reaches include design costs
- (3) Expenditure for design which is at 90%.
- (4) Based on work complete for construction reaches and \$ expended for construction support
- (5) Based on original contract duration and approved extensions

**Remaining Budget <sup>1</sup>**

