Los Angeles County Metropolitan Transportation Authority One Gateway Plaza 3rd Floor Board Room Los Angeles, CA



**Board Report** 

File #: 2016-0891, File Type: Policy

Agenda Number: 39.

### FINANCE, BUDGET & AUDIT COMMITTEE NOVEMBER 16, 2016

### SUBJECT: METROLINK REQUEST FOR ADDITIONAL FUNDING FOR TRACK AND STRUCTURE REHABILITATION WORK

### ACTION: APPROVE LIMITED PRE-CONTRACT AWARD AUTHORITY TO METROLINK TO INITIATE PROCUREMENT ACTIVITIES

### RECOMMENDATION

AUTHORIZE the Chief Executive Officer to provide Metrolink with "pre-contract award authority" to procure the contracts required for the urgent track and structure rehabilitation work reported by Metrolink at its Board Meeting on September 23, 2016.

### <u>ISSUE</u>

On September 23, 2016, Metrolink staff provided its Board of Directors with a report for track and structure rehabilitation funding that will be required in the next 18 months for track and within 36 months for bridges and culverts totaling approximately \$46.5 million. Metrolink staff has indicated that if funding is not made available by the Member Agencies, Metrolink will need to develop a plan for operations with deferred rehabilitation that will likely result in "slow orders" and service disruptions on the impacted segments beginning June 2017 (Please See Attachment A). A slow order is generally initiated when the railroad agency believes that conditions on or about the Rights of Way (ROW) prevent trains from operating at normally designated speeds which could result in substantial delays to riders or a reduction in service. Metrolink has estimated that Metro's share of this appropriation is \$32.0 million.

### DISCUSSION

In October, Metrolink staff provided the Member Agencies with a report for track and structure rehabilitation funding that will be required in the next 18 months for track and within 36 months for bridges and culverts totaling approximately \$46.5 million that were divided into two sets of priority groupings, A and B. Priority A is comprised of a total of \$29.4 million and is regarded as a higher priority than Priority B projects totaling \$17.1 million. However, Metrolink indicated that both A & B projects are necessary to prevent the imposition of slow orders and service disruptions on the impacted segments beginning as early as June 2017.

While staff agrees that some level of state of good repair is required on the ROW, the prudent

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approach is to provide assurance to the Metro Board, prior to any multi-million dollar commitment of funding, that the highest priority rehabilitation projects are addressed in the most expeditious manner, particularly in the event of a risk to the operational safety of our passengers. Therefore, staff has requested Metrolink to provide a prioritized list that identifies the most critical track and structure rehabilitation projects along with a condition assessment rating and provide a detailed project delivery work plan and corresponding cash flow expenditure plan.

Simultaneously, in cooperation with Metrolink, Metro staff is also performing a due diligence review and intends to secure the services of a qualified professional railroad engineering firm from the Regional Rail engineering bench by December 2016 with specialized staffing in railroad track & structures engineering to assist in the verification of project requirements, priorities, current ROW conditions, and validate the estimated costs. However, in the meantime to ensure there is no delay in addressing these potential operational efficiencies or passenger safety issues, staff is proposing a "pre-contract award authority" action plan that authorizes Metrolink to proceed with the development of the necessary scope(s) of work, advertise the contract opportunities, and structure the procurements with a series of options to provide flexibility with respect to the amount of funding available. Metrolink's actual award of contracts would not be authorized until such time as Metro's Board approves an appropriation, which is anticipated to occur prior to April 30, 2017.

As reported to the Board previously, Metro continues to work with Metrolink staff to provide an accounting and reconciliation of previously appropriated funding of approximately \$40 million for state of good repair projects dating back to FY11. Finally, in an effort to improve the communication and collaboration between the agencies, a Metrolink/Metro collaborative working group began in May 2016 meeting on a bi-weekly basis to discuss capital project status, agency agreements, risk management, community outreach, funding, operations, planning and performance.

### DETERMINATION OF SAFETY IMPACT

The adoption of this recommendation has no safety impact.

### FINANCIAL IMPACT

Staff anticipates that an appropriation request with a corresponding work plan could be brought to the Board by April 2017. Funding for the bench consultant is Measure R 3%. These funds are restricted for commuter rail related capital/rehabilitation projects.

### ALTERNATIVES CONSIDERED

The Board could chose to not grant "pre-contract award authority" to Metrolink or not engage a consultant to analyze Metrolink's rehabilitation needs of Metro owned ROW. This is not recommended especially since passenger safety and operational efficiency are among the agency's highest priorities. The Board could also instruct staff to defer this request until the consideration of the FY18 Budget. This is not recommended as the process outlined above allows Metrolink to proceed with the procurement of the necessary scope(s) of work, advertise the contract opportunities, and

structure the procurements to lead a more efficient and informed FY18 budget development process.

### NEXT STEPS

Upon approval of the Board, staff will:

- 1. Notify Metrolink of the Board's actions.
- 2. Continue to perform the due diligence review and secure specialized railroad engineering consultant services from the established Regional Rail bench by December 2016 to evaluate Metrolink's track and structure rehabilitation and SOGR projects.
- 3. Report back to the Board with an appropriate funding recommendation for track and structures rehabilitation work by April 2017 or sooner.

### ATTACHMENTS

Attachment A- Metrolink Board Item #22 dated September 23, 2016

Prepared by: Yvette Reeves, Principal Transportation Planner (213) 922-4612 Drew Phillips, Director of Budget (213) 922-2109 Jeanet Owens, Sr. Executive Officer, Program Management (213) 922-6877

Reviewed by: Nalini Ahuja, Chief Financial Officer (213) 922-3088 Rick Clark, Chief Program Management Officer (213) 922-7557

Phillip A. Washington Chief Executive Officer



### SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY

TRANSMITTAL DATE:	September 16, 2016	
MEETING DATE:	September 23, 2016	ITEM 22
TO:	Board of Directors	
FROM:	Arthur T. Leahy	
SUBJECT:	Planned Slow Orders Resulting from Deferred for Track and Structures Rehabilitation	Funding

### lssue

Track and structures rehabilitation funding will be required in the next 18 months for track and within 36 months for bridges and culverts. Bridges and culverts have longer lead times and take longer to get "shovel-ready" than track projects. If additional funding is not approved, slow orders and weight restrictions will be applied to various locations on the system, principally on the Valley, Ventura, River and San Gabriel line segments.

### **Recommendation**

The Board may receive and file this report.

### **Alternatives**

The Board may request additional information.

### **Background**

The Authority is responsible for maintaining rail network assets dispersed over five counties and including nearly 400 miles of track in a State of Good Repair. The breakdown of key track and structure assets on Metrolink property includes 3.8 million feet of rail, 1.1 million concrete or wood ties with fasteners, 285 crossing surfaces, 442 turnouts, 261 bridges, 580 culverts and 6 tunnels In addition to track and structure assets, various system assets including signals, communications, train control centers, Positive Train Control (PTC) and specialized Maintenance-of-Way (MOW) equipment must be maintained to a State of Good Repair.

The Authority's Engineering staff utilize various methods for measuring the condition of infrastructure components which is documented in condition reports and databases. Condition reports are used to determine the remaining life on an asset and program its replacement or renewal. The programming for replacement and renewal includes a cost estimate, schedule and funding request to perform the work before the asset reaches a threshold where it could impact rail operations throughput, reliability or safety. These forecasts, schedules and estimates are used to develop annual multi-year rehabilitation funding requests and to plan procurement materials and installation contractors to perform the work.

One Gateway Plaza, 12th Floor, Los Angeles, CA 90012

Funding levels for track and structures have become inadequate to maintain these railroad assets in a State of Good Repair. Funding for overall rehabilitation and replacement has fluctuated between \$18M and \$47M per year during the past 10 years, and has steadily become inadequate to sustain necessary rehabilitation of track, bridges and culverts, specifically for the Valley, Ventura, San Gabriel and River line segments. For FY2016, there was no funding for rehabilitation of track assets on the Ventura (Los Angeles), Valley, River, or Pasadena subdivisions. As a result, the condition of the track, bridge, tunnel and culvert assets continues to steadily degrade as a consequence of the lack of funding. With the recent levels of funding obtained, Metrolink is only addressing projects on a "worst-first" basis, and therefore the assets that also need to be addressed, but are not in the very worst condition, have been deferred. Attachment C provides the historic funding for track and structures over the past five years.

Attachments A and B provide a table and corresponding maps listing the locations and work where funding is required to address immediate needs for rehabilitation or replacement. The amounts requested are in addition to any previously programmed amounts, but were requested in the preliminary FY2016-17 budget. The table and maps are also divided into an "A" and "B" list. The "A" list is for the highest priority and the "B" list is for the next-highest priority work necessary. The lists do not account for other separately programmed or yet-to-be programmed rehabilitation work such as signal, communication, train control system work and work on other line segments. Some critical track and closely related signal work within the Los Angeles Union Station terminal has also not been included in the list and will be added in the near future.

If funding is not be made available, staff will need to develop a plan for operations on the track segments with deferred rehabilitation. This will likely result in slow orders on the impacted segments and will cause significant service impacts. Slow orders would be imposed beginning in June 2017. The corresponding typical increase in run times for a Valley, Ventura or San Bernardino Line train trip could be 10 to 15 minutes. Weight limits on bridges may also need to be imposed, restricting the gross weight for freight cars from 315,000 down to 286,000 pounds. The freight railroads would be very concerned about this course of action and likely reduce their freight revenue contributions to the Authority or take other action.

### Budget Impact

There is no budgetary impact in developing this report. However, if the Board directs staff to increase funding for all or some of the rehabilitation work, a mid-year adjustment to the Authority's FY2016-17 budget will be required.

Prepared by:

Aaron Azevedo, Project Engineer I Elizabeth Lun, Project Engineer I Wayne Mauthe, Asst. Director Track and Structures Darrell Maxey, Deputy Chief Operations Officer (PTC and Engineering)

Gary Lettengarver Chief Operating Officer

Slow Order Impacts

## ATTACHMENT A

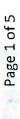
Sub	Location						Qu	lanti	Quantity/Cost						Weight Limit
- HAN			Rail		Ties	5	Crossing		Turgouts		Bridge		Culvert	Subtotal	
Valley	A: Santa Clarita to Palmdale			8450	\$2,112,500	-	\$400,000	-	\$500,000	13	\$9,160,000	15	\$5,320,000	\$17,492,500	10 MPH Speed Reduction * Reduce aross weight
	B. Glandala			BUUD	\$2 000 000					c	000 DEC 200	c	ç	000 001 00	from 315,000 to 286,000 lbs.
	to Burbank			2000	000'000'74					4	000'000'14	2	D.	000'00/'00	Reduction * (see above)
Ventura	A: Chatsworth to Burbank			1200 0	\$3,000,000			-	\$375,000	2	\$2,800,000	0	\$0	\$6,175,000	10 MPH Speed Reduction
	Airport B: Moorpark to Simi Valley	4500	\$562,500	7600	\$1,900,000	7	\$800,000	-	\$375,000	5	\$1,310,400	-	\$150,000	\$5,097,900	(see above) 10 MPH Speed Reduction * (see above)
San Gabriel	A: Montclair to Rialto			0006	\$2,250,000			E.		-	\$1,400,000	0	\$0	\$3,650,000	10 MPH Speed Reduction
	B: Baldwin Park to Covina					-	\$400,000			0	0\$	0	\$0	\$400,000	* (see above) 10 MPH Speed Reduction
River	A: LAUS	1800	\$225,000	5300	\$1,325,000			-	\$550,000	0	\$0	0	\$0	\$2,100,000	5 MPH Speed Reduction
	B: East Bank	31680	\$3,960,000	2000	\$1,250,000			<del>2</del>	\$2,622,400	0	\$0	0	\$0	\$7,832,400	10 MPH Speed Reduction
										2	TOTA	IL FU	TOTAL FUNDING NEED	\$46,507,800	

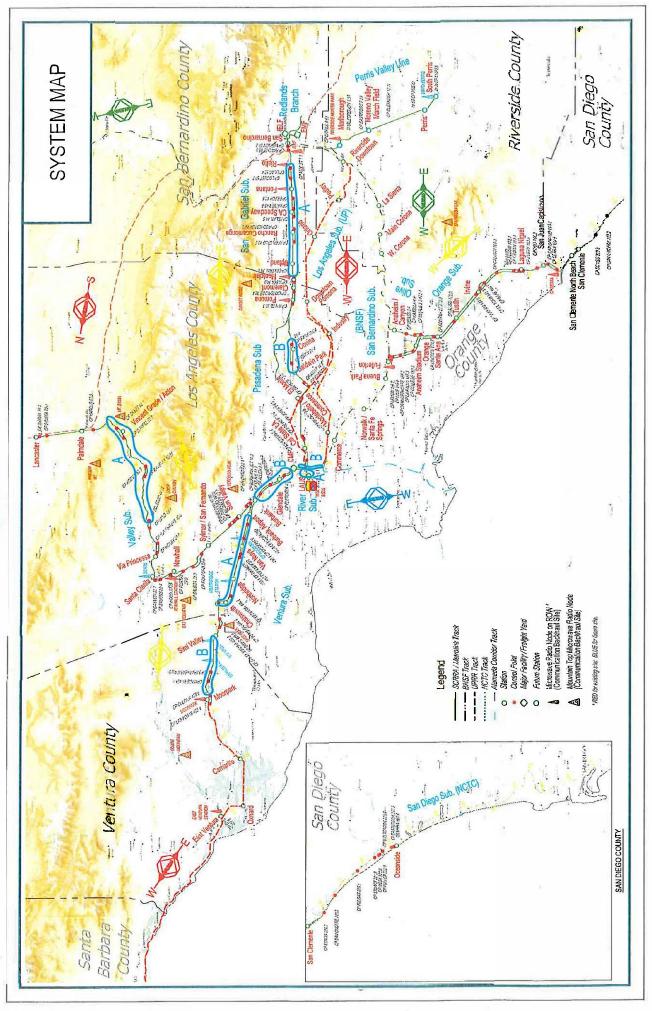
# COST SHARES BY MEMBER AGENCY

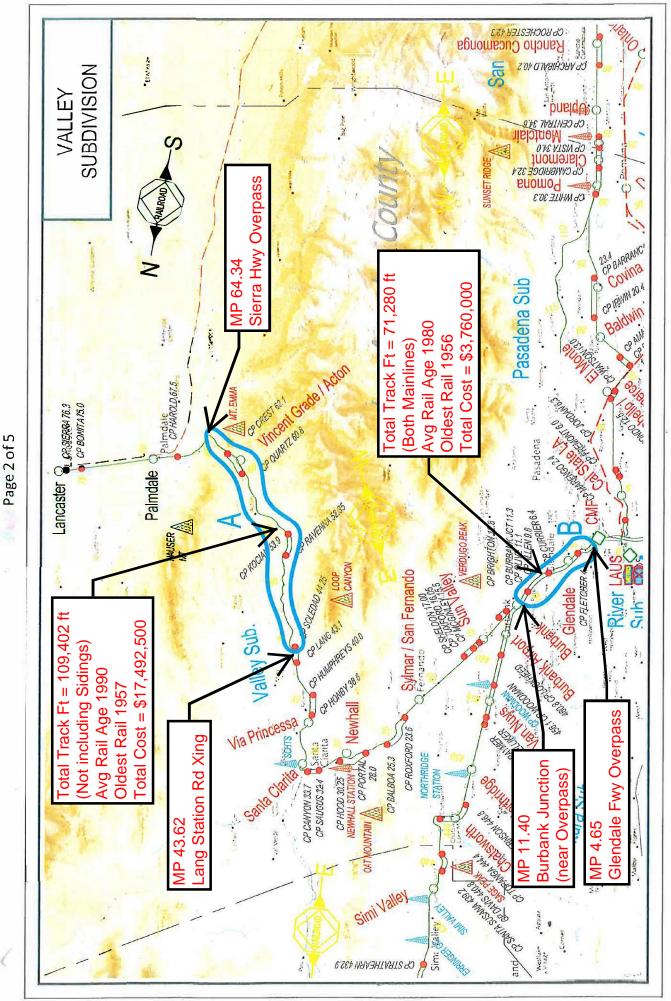
									2
Subdivision		Location	TOTAL	IA	OCTA	RCTC	SANBAG	VCTC	UPRR*
Valley	A	SCR to PMD	\$17,492,500 \$17,492,500	\$17,492,500					
Valley	В	GDL to BUR	\$3,760,000	\$3,760,000					
Ventura	A	CWT-BBA	\$6,175,000	\$6,175,000					
Ventura	В	MPK-SIM	\$5,097,900					\$5,097,900	
San Gabriel	A	MCL-RIA	\$3,650,000	\$2,190,000			\$1,460,000		
San Gabriel	В	BWP-COV	\$400,000	\$240,000			\$160,000		
River	A	LAUS	\$2,100,000	\$997,500	\$415,800	\$233,100	\$302,400	\$151,200	\$0
River EB	В	East Bank	\$7,832,400	\$1,157,041	\$482,304	\$270,382	\$350,766	\$175,383	\$5,396,524
Sub-Total (A)	A		\$29,417,500	\$29,417,500 \$26,855,000	\$415,800	\$233,100	\$1,762,400	\$151,200	\$0
Sub-Total (B)	В		\$17,090,300	\$5,157,041	\$482,304	\$270,382	\$510,766	\$5,273,283	\$5,396,524
<b>GRAND TOTAL</b>	AL		\$46,507,800	\$46,507,800 \$32,012,041	\$898,104	\$503,482	\$2,273,166	\$5,424,483	\$5,396,524

\*For costing purposes, East Bank assumes Zone 2 location and UPRR share of 68.9%

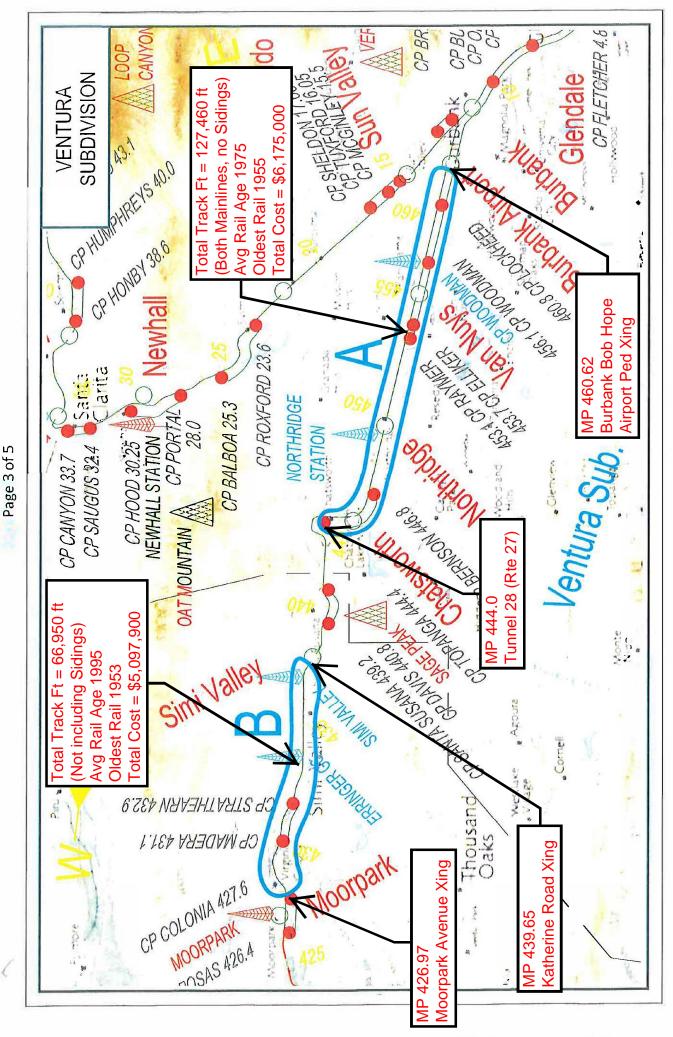






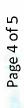


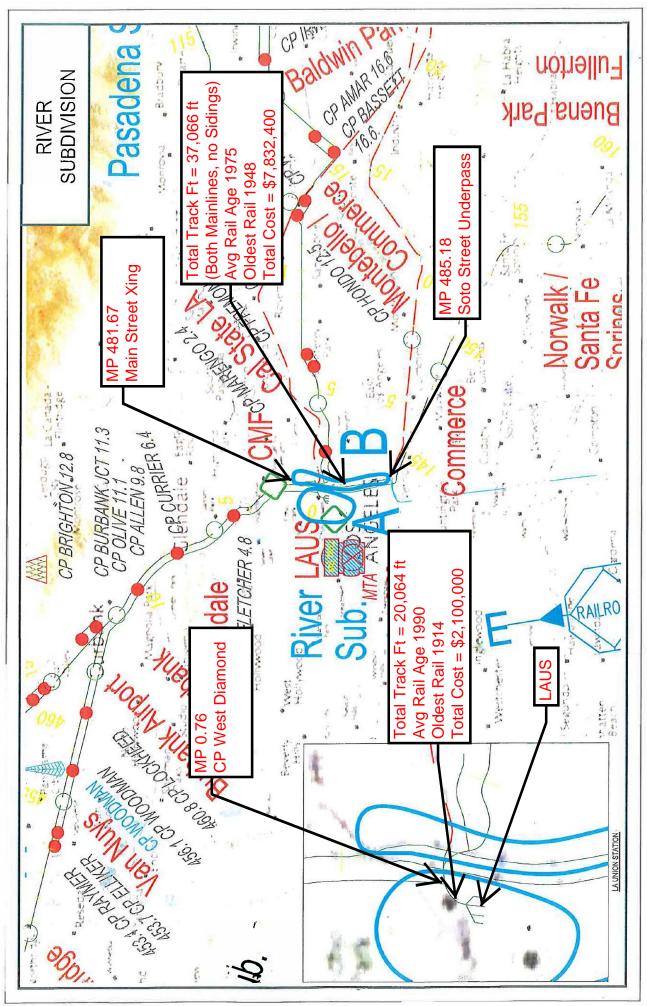
ATTACHMENT B

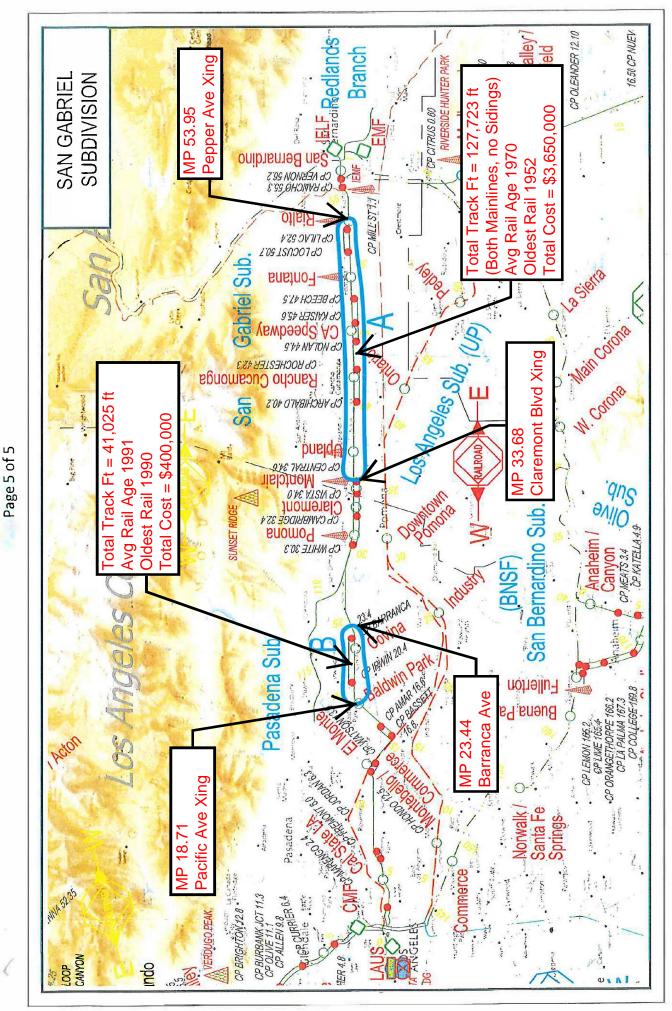


ATTACHMENT B









ATTACHMENT B

### **ATTACHMENT C**

# Historic Metrolink Rehabilitation Funding for Track and Structures

Row Labels	2012-13	2013-14	2014-15	2015-16	2016-17	Grand Total	Average	# of Bridges	# of Culverts	# of Tunnels	Track Miles
Structures	\$1,986,786	\$545,000	\$11,563,594	\$3,466,107	\$4,060,460	\$21,621,947	\$4,324,389	261	580	9	
Olive			\$693,362			\$693,362	\$138,672	9	13		
Orange	\$1,242,000	\$75,000	\$7,074,482	\$2,725,000	\$485,000	\$11,601,482	\$2,320,296	54	108		
River	\$155,250		\$76,976			\$232,226	\$46,445	14	5		
San Gabriel			\$80,000	\$112,000	\$168,000	\$360,000	\$72,000	33(LA)/ 26(SB)	66(LA)/ 36(SB)		
Valley	\$372,600	\$350,000	\$2,086,056		\$867,860	\$3,676,516	\$735,303	57	207	٤	
Ventura (LA)	\$197,032		\$497,941			\$694,973	\$138,995	25	19	٤	
Ventura (VC)	\$19,904	\$120,000	\$1,054,777	\$629,107	\$2,539,600	\$4,363,388	\$872,678	18	35		
Track	\$5,449,694	\$10,310,233	\$7,132,621	\$4,910,650	\$14,849,853	\$42,653,050	\$8,530,610				400
Olive		\$397,936	\$6,638	\$318,000		\$722,574	\$144,515				5.98
Orange	\$3,245,916	\$3,643,416	\$462,300	\$2,137,750	\$6,912,120	\$16,401,502	\$3,280,300				78.93
Pasadena		\$745,531	\$375,000			\$1,120,531	\$224,106				16.52
Redlands				\$300,000		\$300,000	\$60,000				
River	\$310,501	\$200,000	\$3,623,024		\$4,899,216	\$9,032,741	\$1,806,548				32.53
San Gabriel	\$496,800	\$1,340,000	\$1,438,000	\$1,640,200	\$1,305,300	\$6,220,300	\$1,244,060				45.60(LA)/ 33.43(SB)
System	\$310,500	\$1,677,000	\$800,000			\$2,787,500	\$557,500				
Valley	\$335,603	\$1,375,000	\$82,228		\$1,400,000	\$3,192,831	\$638,566				98.73
Ventura (LA)	\$543,375	\$178,350	\$25,896			\$747,621	\$149,524				32.85
Ventura (VC)	\$207,000	<mark>\$753,000</mark>	<mark>\$319,535</mark>	\$514,700	<mark>\$333,217</mark>	\$2,127,452	\$425,490				20.06