



## High Priority State of Good Repair (SOGR) Program Program Status Update - December 2017

### Program Overview

The High Priority State of Good Repair (SOGR) Program includes the rehabilitation and replacement of existing Metrolink-owned and maintained track, grade crossings, turnouts, culverts and railroad bridges. The objective of this program is to rehabilitate and replace the most critical priorities of aging track and railroad structures currently in use by Metrolink's daily commuter rail service, Amtrak service and other railroad partner service and maintain on-time service. The current program is scoped for the 23 most critical projects, with additional projects to be proposed if cost savings and/or additional funding allows. The work is being performed to avoid the need for slow orders which are required when track or bridge structures are not at an acceptable condition for existing speeds or weights. Currently, segments of Metrolink's track and bridge structures are nearing out-of-compliance levels with existing SCRRRA Track Maintenance and Engineering Instruction (TMEI) standards.

### Program Status Update

Work is progressing well on all aspects of the SOGR Program. Over the period, crews performed clean-up and de-stressing to complete the Valley Sub The project. The replacement is now largely complete on the Valley and Ventura (LA) Subs. Staff continued contractor job walks at multiple locations including the River (EB) Sub to prepare for commencement of rail replacement work. The project delivery team is working effectively, evaluating schedules, assumptions and risks. Materials, including ties, turnouts and rail, have been ordered and delivery is underway as scheduled to avoid any delays to the program. Work windows have been coordinated with the Operations Dept. to ensure schedule will be maintained and maximize productivity. Staff expects to complete the delivery of the SOGR program ahead of schedule and under budget.

Status by asset type:

- Ties - The replacement on Valley and Ventura (LA Co) Subs complete; Ventura (Ven Co) Sub anticipated to be complete in Dec. 2017.
- Rail - First rail train delivered in Nov. and second in early Dec. (ahead of schedule). Rail rehab to begin on River Sub (EB) in Jan. 2018
- Turnouts - Materials ordered; potential complexities at certain locations related to track elevation and adjacent track features.
- Culverts - All four culverts on the Valley Sub were successfully replaced in Sept 2017. Remaining culvert on Ventura Sub in mid-2018.
- Bridges - Design approx. 60% but potential delay to complete hydrologic & hydraulic studies and to include add'l bridges that were not funded in the original SOGR program authorization. Advertisement of IFB package anticipated in Q2 2018.

### Next Steps

- Off-load rail trains, begin rail installation on East Bank in Jan. 2018
- Continue tie replacement on Ventura (Ven), River & San Gabriel Subs
- Request funding for add'l bridges to include in bridge design/IFB package for release in Q2 2018; construction starting in late- 2018.
- Continue track & turnout material deliveries and contractor authorizations to perform the work as scheduled



### Cost & Schedule Status by Sub-Project

(Data as of 12/5/17)

Project#	Description	Sub-division	Budget	Cost			Schedule		Status/Issues
				Committed	Expended	Physical % Complete	In-Service Date		
592110	Replace 7,600 Ties & Rail Curves (MP439.24 & 433.1)	Ventura (Ven Co)	\$2,312,500	\$1,765,418	\$661,295	62%	8/1/18	The work complete, rail delivery anticipated in Dec.	
592111	Replace Turnout at CP Santa Susana (#20)	Ventura (Ven Co)	\$375,000	\$119,701	\$9,642	11%	3/29/18	Re-evaluating scope to replace components, not full turnout.	
592112	Rehabilitate Katherine Road Crossing	Ventura (Ven Co)	\$400,000	\$20,254	\$2,846	11%	3/29/18	Contractor to provide materials and perform work Feb.-Mar. 2018	
592210	Replace Ties (MP444-462), Woodman Turnouts (MP460)	Ventura (LA Co)	\$3,375,000	\$3,111,120	\$2,241,518	80%	4/5/18	The work complete; potential challenges on turnouts require funding transfer.	
592310	Replace 8,450 Ties (MP46-48, 52-59, 63-64)	Valley	\$2,112,500	\$2,075,969	\$986,177	98%	12/4/17	The work complete, close-out underway.	
592410	Install 9,000 Ties (MP 34-38, 42-45, 47-51, 52-54)	San Gabriel	\$2,250,000	\$380,989	\$14,060	18%	3/28/18	All ties on-site, contractor to begin in Jan. 2018	
592710	Replace LAUS Leads & 5,300 Ties	River - WB	\$1,550,000	\$661,874	\$396,436	15%	5/3/18	Materials available; RFP issued to JOC contractor.	
592711	Replace 2 #20 Turnouts at CP Taylor	River	\$550,000	\$140,858	\$11,437	13%	6/29/18	VTHM to perform. Material mostly in inventory, remaining parts ordered to complete pkg	
592712	Replace Rail & Ties	River-EB	\$4,926,600	\$1,016,832	\$15,908	15%	6/29/18	Rail delivery in early Dec (ahead of schedule).	
592713	Replace 3 Turnouts	River-EB	\$1,600,000	\$290,816	\$7,190	8%	10/2/18	Material ordered; long lead times for non-inventory items	
517020	Rail Top Bridge Replacement Design	System-wide	\$475,000	\$462,028	\$101,767	60%	7/27/18	Bridge design underway; addressing H&H Study.	
592120	Replace Bridge (MP436.96 & 434.12), Culvert (MP436.46)	Ventura (Ven Co)	\$1,460,400	\$105,074	\$3,415	10%	2/13/19	Bridge design underway; IFB to go out to bid in Q2 2018	
592220	Replace Bridge MP 458.71	Ventura (LA Co)	\$1,800,034	\$218,167	\$6,536	10%	2/13/19	Bridge design underway but delayed due to add'l H&H studies required.	

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Project#	Description	Sub-division	Cost			Schedule		Status/Issues
			Budget	Committed	Expended	Physical % Complete	In-Service Date	
592320	Replace Bridge MP 50.64	Valley	\$771,443	\$96,583	\$4,847	10% <span style="color: yellow;">●</span>	12/14/18	Bridge design underway but delayed due to add'l H&H studies required.
592321	Replace Bridge MP 50.51	Valley	\$771,443	\$95,230	\$3,493	10% <span style="color: yellow;">●</span>	11/30/18	Bridge design underway but delayed due to add'l H&H studies required.
592322	Replace Bridge MP 50.77	Valley	\$771,443	\$94,892	\$3,156	10% <span style="color: yellow;">●</span>	12/21/18	Bridge design underway but delayed due to add'l H&H studies required.
592323	Replace Bridge MP 47.45	Valley	\$459,192	\$57,093	\$2,372	10% <span style="color: yellow;">●</span>	10/22/18	Bridge design underway but delayed due to add'l H&H studies required.
592324	Replace Bridge MP 50.46	Valley	\$771,443	\$94,892	\$3,156	10% <span style="color: yellow;">●</span>	11/5/18	Bridge design underway but delayed due to add'l H&H studies required.
592325	Replace Culvert MP 55.91	Valley	\$350,000	\$214,677	\$23,923	96% <span style="color: green;">✓</span>	12/14/17	Work complete, close-out underway.
592326	Replace Culvert MP 53.84	Valley	\$350,000	\$332,764	\$6,762	96% <span style="color: green;">✓</span>	12/14/17	Work complete, close-out underway.
592327	Replace Culvert MP 54.13	Valley	\$280,000	\$145,811	\$9,912	96% <span style="color: green;">✓</span>	12/14/17	Work complete, close-out underway.
592328	Replace Culvert MP 66.78	Valley	\$420,000	\$181,901	\$29,155	96% <span style="color: green;">✓</span>	12/14/17	Work complete, close-out underway.
592420	Rehabilitate Bridge MP 40.12	San Gabriel	\$1,400,000	\$168,810	\$4,858	10% <span style="color: yellow;">●</span>	2/11/19	Bridge design underway but delayed due to add'l H&H studies required.
<b>Overall Program Totals</b>			<b>\$29,531,998</b>	<b>\$11,851,754</b>	<b>\$4,549,860</b>	<b>35%</b>		

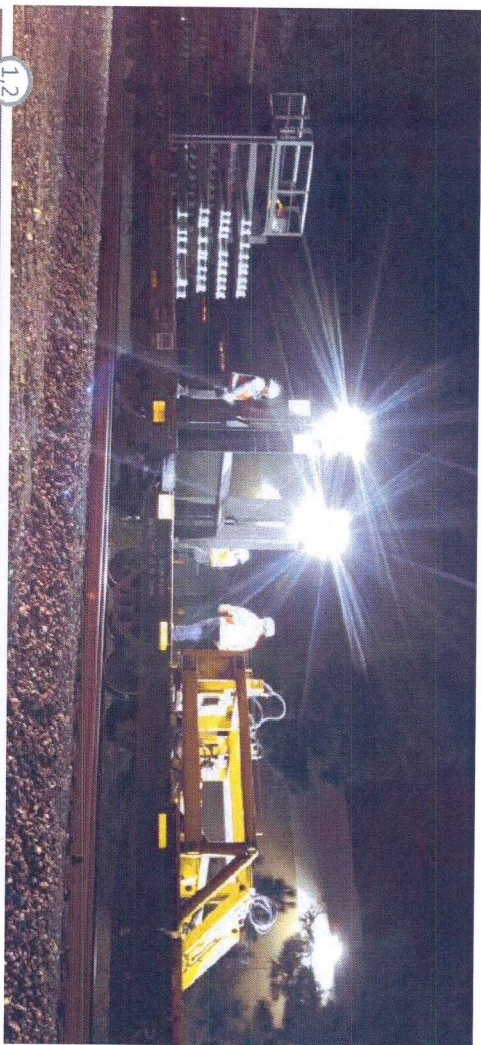
**Cost & Schedule Summary**

Overall program is 35% complete based on work performed, including contract authorization activities, material orders, mobilization, culvert & the replacements, bridge design. Work is proceeding as scheduled and the team is appropriately mitigating risks to avoid future impacts. Cost data reflects approximately \$11.8 million (40% of the budget) is committed to-date for contracts and material deliveries. Actual commitments are substantially higher (estimated at approx. 50%) based on materials ordered in advance through the SCRRRA Inventory Dept. which are not reflected in the project commitment value until transferred upon delivery. Expenditures to-date are \$4.5 million (15% of budget) based on work performed, billed and processed; additional ~\$2-3M in billings in process.

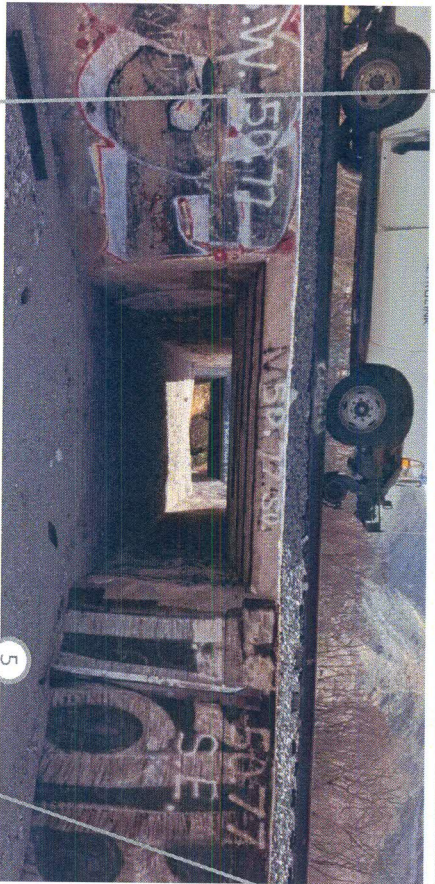
Overall program anticipated to complete ahead of schedule and under budget. Staff to propose add'l SOGR projects to utilize cost savings.



**Project Photos & System Map**



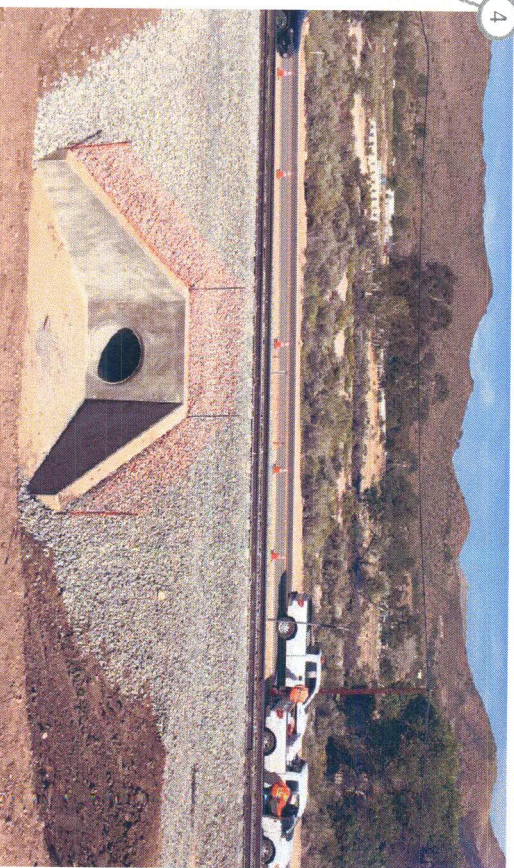
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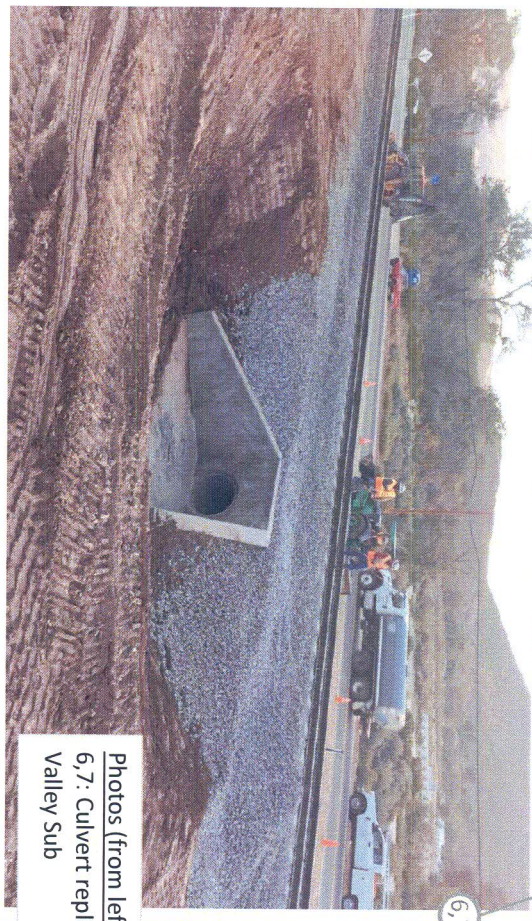
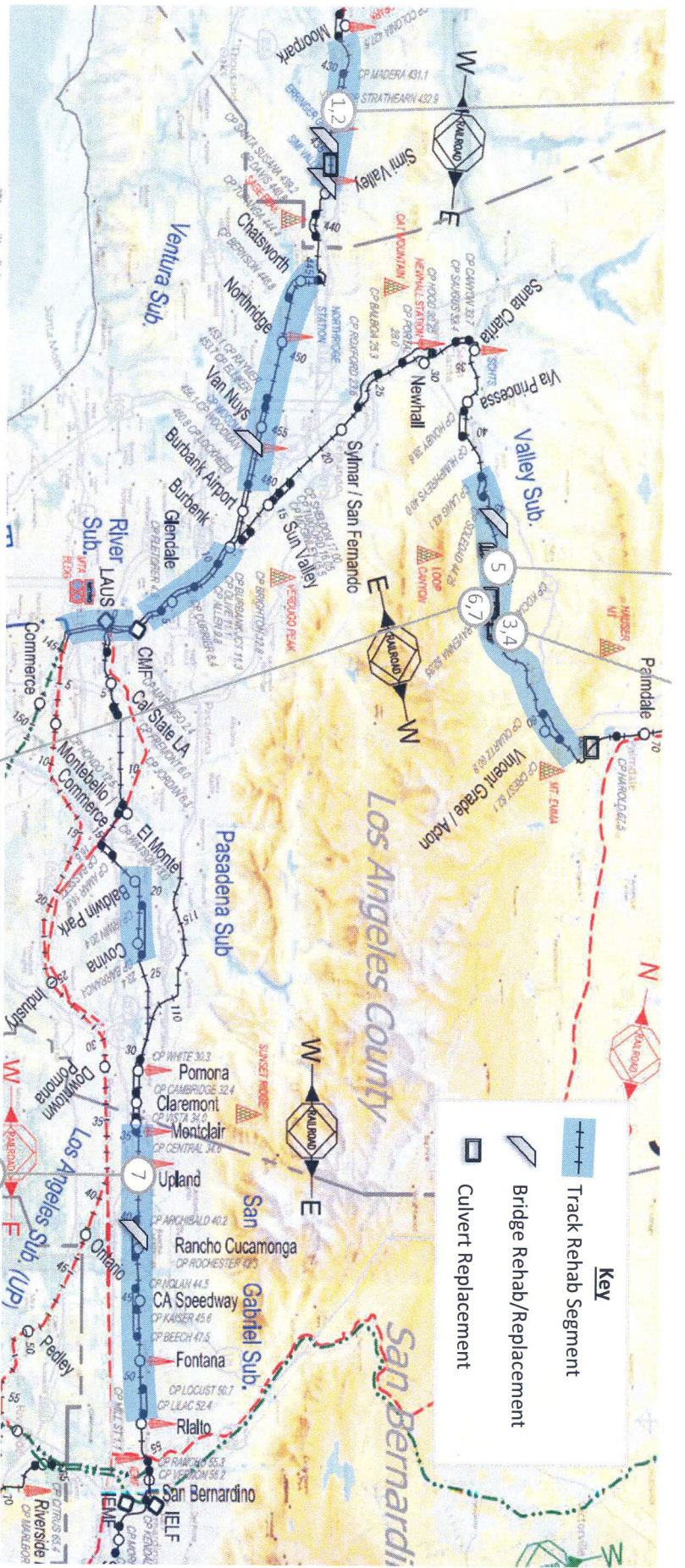
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Photos (from top left)  
1,2: Rail train delivery Ventura Sub  
3,4: Culvert Replacement on Valley Sub  
5: Bridge inspection job walk on Valley Sub





Photos (from left)  
6.7: Culvert replacement on  
Valley Sub

