300 Lakeside Drive, P. O. Box 12688, Oakland, CA 94604-2688

NOTICE OF MEETING AND AGENDA BOND OVERSIGHT COMMITTEE

Friday, September 18, 2020 9:30 a.m. – 12:00 p.m.

COMMITTEE MEMBERS: Marian Breitbart, Michael Day, Leah Edwards, Daren Gee, Michael McGill, Catherine Newman

Please note, pursuant to Governor Newsom's Executive Order N-29-20 and the California Shelter-in-Place mandate, which prevents all but essential travel, public participation for this meeting will be via teleconference only.

Presentation materials will be available at: www.bart.gov/about/bod/advisory/bond

You may join the Bond Oversight Committee Meeting via WebEx by calling 1-866-528-2256 (US/Canada) and entering access code 4114165.

If you wish to make a public comment:

Submit written comments via email to mmorale@bart.gov, using "public comment" as the subject line. Your comment will be read into the record and will become a permanent part of the file. Please submit your comments as far in advance as possible. Emailed comments must be received before 9:00 a.m. in order to be included in the record.

Public comment is limited to three (3) minutes per person.

AGENDA

- 1. Call to Order (5 minutes)
 - A. Roll Call
 - B. Introduction of BART Staff
- 2. Meeting Minutes: May 29, 2020 (For Discussion/Action) (5 minutes)
- 3. Update on the Search for Filling Project Management Institute Vacancy (For Discussion) (5 minutes)
- 4. Chairman Recaps His Presentation of the 2020 Annual Report before BART Board of Directors (For Discussion/Action) (5 minutes)
- 5. Annual Report Subcommittee Set Dates for 2021 Annual Report and Subcommittee Meetings (For Discussion) (5 minutes)
- 6. BART Safety, Reliability and Traffic Relief Program (Measure RR) Presentation (For Discussion) (72 minutes)
 - A. Office of Civil Rights (5 minutes) 1. Q&A (10 minutes)
 - B. Human Resources/Staffing (5 minutes)
 - 1. Q&A (10 minutes)

- C. San Francisco 34.5kV Cable Replacement Project (10 minutes) 1. Q&A (10 minutes)
- D. Program Updates (12 minutes)1. Q&A (10 minutes)
- 7. Requests for Future Agenda Items (For Discussion) (5 minutes)A. Staff Recommendation: Station Modernization
- 8. Committee Member Announcements (For Discussion) (5 minutes)
- 9. Public Comment (5 minutes)
- 10. Adjournment (5 minutes)

BART provides service/accommodations upon request to persons with disabilities and individuals who are limited English proficient who wish to address Committee matters. A request must be made within one and five days in advance of Board/Committee meetings, depending on the service requested. Please contact the Office of the District Secretary at (510) 464-6083 for information.



San Francisco Bay Area Rapid Transit District

Measure RR Program

BART Bond Oversight Committee
******DRAFT*******

Friday, May 29, 2020 9:30 AM – 11:00 AM Via WebEx Conference Call

MEETING NUMBER	MEETING DATE	MEETING TIME	
Term 2, Meeting 3	Friday, May 29, 2020	9:30 am – 11:00 am	
Attendees	Present Members	Staff	
	Michael McGill, Chair	Linton Johnson	
	Catherine Newman, Vice Chair	Chris Filippi	
	Michael Day	Sylvia Lamb	
	Marian Breitbart	Vicky Tam	
	Daren Gee	Jamal Thompson	
	Leah Edwards	Mickey Morales	
		Travis Engstrom	
		Tracy Johnson	
		Antoinette	
		Carl Holmes	
		Joseph Towner	
		Rose Poblete	
		Javier Martinez	
		Audrey Tam	

Agenda Item	Meeting Notes
 Call to Order A. Roll Call B. Introduction of BART Staff 	All committee members are present. T. Engstrom explains how WebEx works.
2. Meeting Minutes: December 20, 2019	Committee unanimously passes the minutes.

3.	Appointment of Committee Vice President; and Update on Filling Project Management Institute Vacancy	Committee elects member Catherine Newman to be the Vice Chair. <u>YES</u> M. McGill M. Day D. Gee M. Breitbart L. Edwards <u>ABASTAIN</u> C. Newman <u>NO</u> None
		L. Johnson updates the committee on the search to fill the vacant Project Management Institute seat.
4.	Appointment of Annual Report Subcommittee	Members unanimously vote to approve M. Day, M. Breitbart and C. Newman as the members of the 2021 Annual Report Subcommittee.
5.	Finalize and Approve the Draft BART Safety, Reliability and Traffic Relief Program (Measure RR) Annual Report	C. Filippi gives overview of the report and thanks staff and committee for their assistance with the report.D. Gee says the report has quite a bit of information
		yet is still concise. He thanks those who put the report together.
		L. Edwards says the report is well done. She mentions that some people might flag that the funding gap between the needs of BART and what Measure RR funds is growing between annual reports. C. Holmes reminds the committee that the public has always been told that Measure RR does not solve all our problems and that the system is getting older.
		L. Edwards also points out that the federal funding has decreased between reports. M. Breitbart agrees and says the committee needs to keep an eye on it. However, C. Holmes says that the federal funds available are not decreasing but is a "snapshot in time" of the federal funds currently available to the project in that annual report year.

	 M. Day says it's a "very good-looking report." He says that it continues to improve on previous reports. C. Newman thanks the team for the effort put in the report and Chairman McGill. She requests that the committee flag issues they believe should go in the 2021 report. Chairman McGill thanks the committee for a job well done. Committee unanimously approves the report.
6. BART Safety, Reliability & Traffic Relief Program (Measure RR) Update	 T. Johnson leads the discussion on the report. She speaks on how the impact of COVID-19 has had on projects. She describes how the reduced service hours at BART has allowed more time for crews to do work. S. Lamb says the graveyard shift now starts at 10 pm instead of 1 am, giving more time for crews to do more work. However, social distancing requirements make the actual work more challenging. J. Martinez provides an update on the Core Capacity and Communication Based Train Control (CBTC) project. D. Gee says he appreciates the advantages of the longer work windows, which allow for greater trackway access now that train service has been cut because of the impact COVID-19 on ridership. But he also recognizes that social distancing will present its own challenges and he appreciates BART staff working thru these issues. He says it will be a challenge for the committee to review funding changes that may result from the impact of the pandemic. J. Thompson reviews the program milestones. V. Tan discusses cashflow of the major projects in the Measure RR portfolio.

	L. Edwards say in the future she would like to learnut more about the watch list items. C. Newman and D. Gee agree.
	M. McGill requests that staff schedule the meetings longer to give members more time to ask questions.
	S. Lamb provides an update on earned value and gon hiring.
	J. Towner provides an update on small business outreach.
7. Committee Member Announcements	In the interest of time, M. McGill skips this item.
8. Request for Future Agenda Items	Item skipped.
9. Public Comment	C. Edwards asks staff to make sure that the WebEx access code for future meetings is correct as the code on the meeting agenda is incorrect.
10. Adjournment	M. McGill adjourns the meeting.



San Francisco Bay Area Rapid Transit District Measure RR Program

Summary of 2020 Bond Oversight Committee 2020 Annual Report Presentation to BART Board Meeting on July 23, 2020

Director Saltzman: What are we doing to get word out about the report?

BART issued a news release that included a link to the report to nearly 300 reporters as well as approximately 30,000 people who have signed up for BART news alerts. BART published social media posts on Facebook and Twitter that included key RR facts as well as links to the full report. Additionally, the report is posted on the Bond Oversight Committee <u>page</u> on bart.gov as well as on the "<u>Reports</u>" and "<u>Better BART, Better Bay Area</u>, " pages of the website.

Director Ames: Is it possible to show more details on projects instead of buckets so we can see what's coming in the midterm and the long-term vision?

The primary goal is to produce a report that can be easily understood by the public. An important part of that is creating a document that doesn't intimidate someone from reading it. Sometimes less is more. What we don't want is to end up with a report that is so bogged down by detailed spreadsheets that the typical rider or taxpayer doesn't bother to read the main conclusions of our work. We've tried to strike an appropriate balance. For example, Page 14 of this year's report includes a graphic that highlights of the lifespan of RR. Also, page nine has a pie chart that shows BART's long-term capital needs and how RR is only part of the answer.

Director Allen: I want to thank the committee for asking for greater context for the data they're presented by staff. What was the staff response for that improved context?

Staff has been working collaboratively with the oversight committee to meet the needs of committee members. This has been an evolving and on-going process that has led to the committee having a clearer understanding of the progress on projects. Staff has been responsive to questions and suggestions from committee members and has strived to include requested changes in presentations and reports.

Click <u>here</u> for the video link to the July 23, 2020 BART Board of Directors meeting, or copy and paste this link into your browser: <u>https://bit.ly/3k5ecVN</u>



BART Safety, Reliability, and Traffic Relief Program (Measure RR) Update



Bond Oversight Committee September 18, 2020

Bond Oversight Committee Duties & Responsibilities

- Provide diligent, independent and public oversight over the expenditure of funds from the sale of District general obligation bonds
- Assess how bond proceeds are invested to ensure that all spending is authorized by the ballot measure
- Assess whether projects funded by bond proceeds are completed in a timely, cost-effective and quality manner consistent with the best interest of BART riders and District residents
- Publish an annual report that includes a detailed account of the Committee's activities including its expenditures



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	M-line 34.5 kV Cable Replacement	13
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- Through July 2020, \$617.0M of the Measure RR funds have been invested to complete 21% of the work.
- Successes
 - Issued 3rd Tranche Bond \$700M
 - Overall program performing ahead of investment projections
 - Interlocking projects meeting performance metrics
 - C25 is complete
 - A65 on schedule
- Challenges
 - COVID-19

# Projects in	# Projects in	# Projects in	# Projects in	# Projects	TOTAL #
Planning	Design	Bid/Award	Construction	Completed	Projects
7	52 (-3)	24 (-3)	47 (+3)	18 (+4)	148 (+1)

- + (Projects added in the phase)
- (Projects no longer in the phase)



RR Program Small Business & Outreach

RR Program Update – Small Business

Program	Total RR Commitment	Total RR SB Commitment	SB Commitment %	# of SB Contracts	Total RR Payments on RR Contracts	RR Payments to SBs	SB Payment %
Renew Track	\$ 97,401,243	\$ 30,300,659	31%	102	\$50,478,206	\$10,640,842	21%
Renew Power	\$ 164,047,054	\$ 81,211,507	50%	160	\$101,031,280	\$60,378,885	60%
Repair Tunnels & Structures	\$ 103,767,367	\$ 24,385,423	24%	100	\$55,493,955	\$8,572,813	15%
Renew Mechanical	\$ 30,122,709	\$ 10,463,987	35%	53	\$13,860,552	\$4,837,727	35%
Replace Train Control/Increase Capacity	\$ 9,814,691	\$ 1,822,061	19%	22	\$6,852,836	\$991,305	14%
Renew Stations	\$ 144,001,101	\$ 26,379,454	18%	82	\$18,420,136	\$5,413,690	29%
Expand Safe Access to Stations	\$ 15,048,236	\$ 3,857,590	26%	91	\$6,935,275	\$2,464,762	36%
Design/Engineer to Relieve Crowding	\$ 53,065,794	\$ 14,193,410	27%	47	\$9,399,404	\$3,895,178	41%
Total	\$ 617,268,196	\$ 192,614,090	31%	656	\$262,471,644	\$97,195,201	37%

Notes: All amounts are based on RR fund percent only. Amounts are updated to July 31, 2020. Includes formal contracts only; does not include informal purchases or work performed by BART's own forces. SB totals include DBEs, MSBEs, SBs, and LSBs. Sources: RR commitments are based on RR Requisitions report, Procurement Sealed Bids Report and PeopleSoft Work Plans application. RR% for each project is based on Financial Analysts' report, RR Funds / Total Project Budget. Payments based on PeopleSoft and B2GNow.

RR Program Update – Outreach





- Recently Completed Events

 BART HQ Trade Partner Outreach Meeting (Zoom)
 - BOC DBE Certification Training (Zoom)
 BART HQ Trade Partner Outreach Meeting M/WBE and SF/Peninsula Firms (Zoom)
 BART HQ Trade Partner Outreach Meeting – M/WBE and LGBTBE Firms (Zoom)
- Upcoming Events

 BART SB Outreach Learn About BART's
 Procurement Process (Zoom)
 BART SB Outreach Meet Project Staff and
 Learn About Upcoming RR Opportunities
 (Zoom)
 - -BART SB Outreach How to do Business with BART (Zoom)



RR Program Hiring



Bond Hiring Summary- To	
Date	# of Positions
FILLED	332
REMAINING POSITIONS	103
	435

- Filled 29 positions since the last Committee Meeting
- 332 positions filled to date
- 76% of hiring goal fulfilled to date
- Load Shedding



Load Shedding Operating to Capital due to Service Reduction

Next Quarter staffing load shedding estimated 175 for temporary reallocation to take advantage of increased blanket time



Work Progress Since Last Meeting

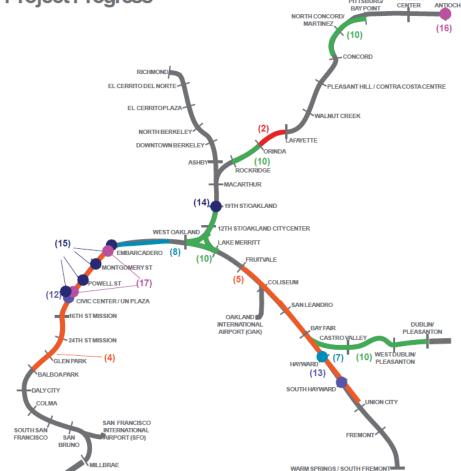
Examples of Active RR Projects in April 2020– July 2020

PITTSBURG

PITTSBURG/

Measure RR -Project Progress

BART



Projects with Accelerated work due to COVID-19 service reduction

*Updated projects

Renew Track

2

- Replace Direct Fixation Pads (Systemwide Not Mapped) Ongoing Construction
- C25 Track Interlocking Replacement Substantially Complete*
- Rail Relay Ongoing Construction- (Systemwide Not Mapped)

Renew Power Infrastructure

- M-Line 34.5kV Cable Replacement Ongoing Construction
- 5 A-Line 34.5kV Cable Replacement Contract Awarded*

Third Rail Replacement (Systemwide Not Mapped) – Ongoing Construction

Renew Tunnel & Structures

- 7 Platform Edge Repair at Hayward Station Ongoing Construction*
- 8 Earthquake Safety Program Transbay Tube Retrofit Ongoing Construction
- 9 Safety Barrier Phase 3 Ongoing Construction (Systemwide Not Mapped)*

Renew Mechanical

- 10 Coverboard Enhancement Ongoing Construction
- Facilities HVAC Equipment Replacement System Wide Phase 1 - Ongoing Construction (Not Mapped)

Design/Engineer to Relieve Crowding

- 12 Civic Center Scissor Stairs Ongoing Construction
- 3 Hayward Maintenance Complex Phase 2 Track Work Procurement - Contract Awarded*

Renew Stations

- 14 19th Street Station Modernization Ongoing Construction
- 15 Market Street Canopies and Escalator Ongoing Construction*

Expand Safe Access

- 16 eBART Antioch Parking Lot Contract Ongoing Construction*
- 17 Embarcadero and Civic Center Bike Station Modernization Substantially Complete*

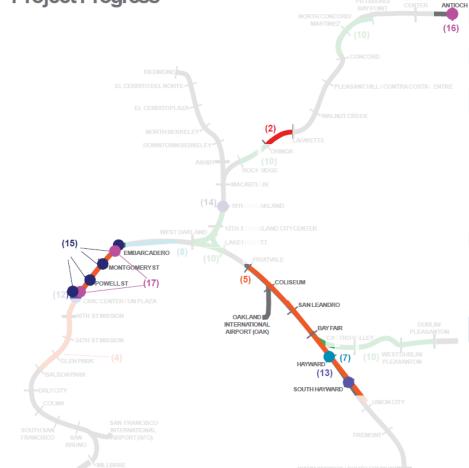
Replace Train Control/Increase Capacity

Construction Management On-Call Contract(s) and Design Support for Train Control Modernization Project – NTP (Not Mapped)*



Updated Projects

Measure RR -Project Progress



Renew Track

2

Replace Direct Fixation Pads (Systemwide Not Mapped) – Ongoing Construction

- C25 Track Interlocking Replacement Substantially Complete*
- Rail Relay Ongoing Construction- (Systemwide Not Mapped)

Renew Power Infrastructure

M-Line 34.5kV Cable Replacement - Ongoing Construction

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- 10 Coverboard Enhancement Ongoing Construction
- Facilities HVAC Equipment Replacement System Wide Phase 1 - Ongoing Construction (Not Mapped)

Design/Engineer to Relieve Crowding

- 2 Civic Center Scissor Stairs Ongoing Construction
- 13 Hayward Maintenance Complex Phase 2 Track Work Procurement - Contract Awarded*

Renew Stations

- 14 19th Street Station Modernization Ongoing Construction
- 15 Market Street Canopies and Escalator Ongoing Construction*

Expand Safe Access

- 16 eBART Antioch Parking Lot Contract Ongoing Construction*
- 17 Embarcadero and Civic Center Bike Station Modernization Substantially Complete*

Replace Train Control/Increase Capacity

Construction Management On-Call Contract(s) and Design Support for Train Control Modernization Project – NTP (Not Mapped)*

M-line 34.5 kV Cable Replacement **Single Tracking Sundays**



- 28 single-tracking Sundays per year
- Single-tracking Window: 01:30 to 19:00
- Single-tracking will be for Work Limit #1 or Work Limit #2 never both.

Work Limit #1 – from Powell to 16th St Mission

- Installed 90% of raceway along M-1
- Pulled 90% cables along M-1
- Installed 75% raceway along M-2
- Pulled 70% cables along M-2
- Single Tracking Limit #1 from Powell St to 16th St Mission
- Jun 2020 Dec 2023

Work Limit #2 – from 24th St Mission to Balboa Park

- Installed 20% raceway along M-2
- Single Tracking Limit #2 from 24th Street to Balboa Park
- Sep 2020 Dec 2023















M-line 34.5 kV Cable Replacement – BART Electrician Installation of 3rd rail disconnect switches

 BART Electricians helped to install 3rd rail disconnect switches on both the M1 and M2 track just south of the Montgomery Platform.

- This shortens the contractor work limits on Sundays Single Tracking.
- For our patrons this enables more frequent Dublin/Pleasanton trains to downtown San Francisco and return to the East Bay.



Train Operator stopping short of the 3rd rail disconnection switch at Montgomery Station

3rd Rail Disconnect Switches

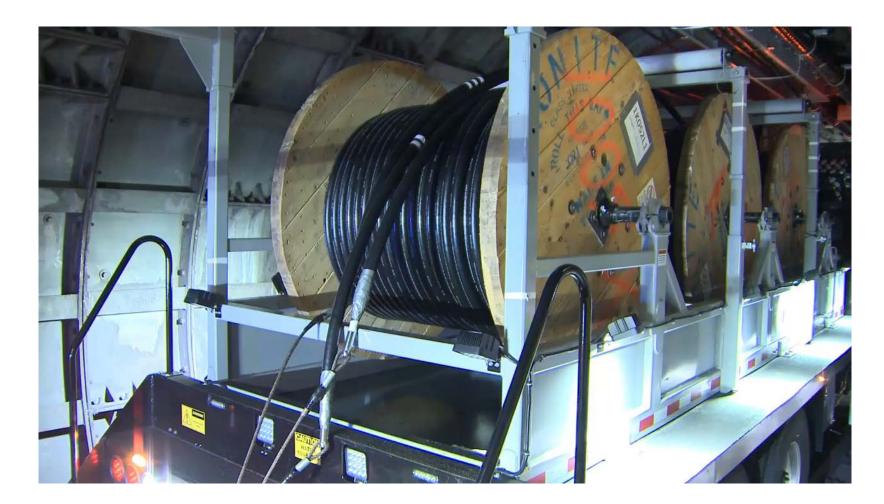








Renew Power Progress M-Line 34.5kV Cable Replacement





Individual Program Milestones



EXPENDED Thru 7/2020: **\$200.9** FORECAST Thru 6/2021: **\$200** TOTAL PROGRAM VALUE: **\$625** PERIOD CASHFLOW: **\$32.7**

STATUS – Renew Track

# Projects in	# Projects in	# Projects in	# Projects in	# Projects	TOTAL #
Planning	Design	Bid/Award	Construction	Completed	Projects
1	3	4	7	5	20

MILESTONES							
Completed (Apr 2020 – Jul 2020)	Q1 (Aug 2020 – Sep 2020)	Q2 (Oct 2020 – Dec 2020)	Q3 (Jan 2021 – Mar 2021)				
 Completion of Construction Shutdowns on C25 Interlocking (near Orinda Station) 	 NTP for Oakland Yard Track Geometry Vehicle Storage Shed Construction Shutdowns Begin for A65 Interlocking Replacement (near Hayward Yard) Contract Award for Oakland Yard Track Geometry Vehicle Storage Shed 	 Mobilization/Construction Begin for R65 Interlocking Replacement (near Richmond Station) Mobilization/Construction Begin for Oakland Yard Track Geometry Vehicle Storage Shed 	 Completion of Construction Shutdowns for R65 Interlocking Replacement (near Richmond Station) Issue for Bid for Special Trackwork for A77 Interlocking Replacement (Near Hayward Yard) 				

Watchlist:

- Material delivery delays
- Upcoming Change Order for C35



EXPENDED Thru 7/2020: **\$237.0** FORECAST Thru 6/2021: **\$275** TOTAL PROGRAM VALUE: **\$1,225** PERIOD CASHFLOW: **\$37.6**

STATUS – Renew Power Infrastructure

# Projects in Planning	# Projects in Design	# Projects in Bid/Award		# Projects in # Proje Construction Comple					
0	7	6	6 14		14 2		14 2		29
		MILEST	ONES						
	mpleted 20 – Jul 2020)	Q1 (Aug 2020 – Sep	2020)	Q2 (Oct 2020 – I		(Jan 20	Q3 21 – Mar 2021)		
 (Apr 2020 – Jul 2020) Contract Award for A-line 34.5kV Cable Replacement (Alameda County) Contract Award of Substations for Core Capacity Contract Award for Transbay Tube East Bay Substation Installation Start Cable Pull for First Segment at M-line 34.5kV replacement (between 16th St and 24th St Stations in San Francisco) NTP for Replace CWS Bulk Supply Transformer (near Walnut Creek Station) NTP for Replace Station Emergency Lighting Complete Commissioning of New 34.5kV circuits for K-line between West Oakland and 		 Completion of Des Station Fire Alarm Replacement Phase NTP for A-line 34.5 Replacement (Alar 	n sign for se 3 5 <i>kV</i>	 Completion of 34.5kV Blockin Systemwide Issue for Bid S Alarm Replace Phase 3 Complete Con of new Substa Leandro Statio 	ng Scheme tation Fire ement- nmissioning ition at San	34.5kV (Replace • Comple Station Replace • Comple Tunnel I Replace	<i>ment</i> tion of Design for Fire Alarm ment Phase 4 tion of Design for		

Watchlist:

R-Line 34.5kV Bids and Evaluation

Tunnels & Structures STATUS & MILESTONES

EXPENDED Thru 7/2020: **\$54.9** FORECAST Thru 6/2021: **\$64** TOTAL PROGRAM VALUE: **\$570** PERIOD CASHFLOW: **\$10.4**

STATUS – Repair Tunnels & Structures

# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction		ojects pleted	TOTAL # Projects		
1	13	1 7			4	26		
		MILEST	ONES					
Compl (Apr 2020 –		Q1 (Aug 2020 – Sep 2020)	Q2 (Oct 2020 – I	ec 2020)	(Jan 20	Q3 (Jan 2021 – Mar 2021)		
 Completion of Desi Catwalks on the A I NTP for Safety Barr Assist Bollards Contract Award for Protection A Line N 	ine iers Phase 3 – Lift- Aerial Fall	 Issue for Bid East Bay Stree Grates (downtown Berkeley and Oakland) 		vide) gin for Aerial A Line North Construction Inabilitation	· ·	ion of Construction tation Walls		

Watchlist:

East Bay Street Grates

Italic: Modified milestones from previous report.



EXPENDED Thru 7/2020: **\$30.3** FORECAST Thru 6/2021: **\$46** TOTAL PROGRAM VALUE: **\$135** PERIOD CASHFLOW: **\$10.9**

STATUS – Renew Mechanical

# Projects in Planning	# Proje Desi			# Projects in Construction		Projects mpleted	TOTAL # Projects	
1	10		6	8		0	25	
			MILEST	TONES				
Completed Q1 (Apr 2020 – Jul 2020) (Aug 2020 – Sep 2020)			-	Q2 (Oct 2020 – Dec 2020))	Q3 (Jan 2021 – Mar 2021)		
 Completion of Design Hose and Piping Rep. Contract Award of V System Replacement Yard) Begin Self Performed Construction and Proof the Fire Hose Cab Replacement Project 	llacement acuum t (Oakland d ocurement inet		n System Replacement d Yard)	 Completion of Construction Concord Yard Fire Services Completion of Design for Hayward Yard Fire Services Construction Begin for Oak Yard fire Services Re-Advertise Concord Yard Truing Facility 	s kland		l Turntable	

Watchlist:

- Unforeseen site conditions for Concord Yard Fire Service
- Combine scopes of Install Wet Standpipe to Hayward Yard Fire Services
- OKS Fire Yard Services protest
- Concord Wheel Truing Facility

Replace Train Control STATUS & MILESTONES

EXPENDED Thru 7/2020: **\$27.3** FORECAST Thru 6/2021: **\$39** TOTAL PROGRAM VALUE: **\$400** PERIOD CASHFLOW: **\$5.4**

STATUS – Replace Train Control / Increase Capacity

# Projects in Planning 0	Des	# Projects in Design# Projects in Bid/Award05		# Projects in Construction 0	# Proje Comple		TOTAL # Projects 5		
Completed	1		MILESTO Q1	MILESTONES Q2 Q3					
(Apr 2020 – Jul		(A)	ug 2020 – Sep 2020)	(Oct 2020 – Dec	2020)	(Jan 20)21 – Mar 2021)		
 Notice to Proceed (NCBTC Construction Management Agree NTP for CBTC Design During Construction Agreements 	ments Support	Executio Contract OCIP Co for CBTC Issue CB	TC Change Notice for Cost l to Bombardier for D-Car	 Notice to Proceed for Design Build Contract Execute CBTC Chang Bombardier for Contract Design Review & Presign Review Start Conceptual Design Build Contract 	ct/Mobilize e Notice to ceptual eliminary sign for CBTC	Cabine	ise Power Supply ts & Switch ne/Train Control		

Watchlist:

Design Build Contract Award contingent upon Full Funding Grant Agreement



EXPENDED Thru 7/2020: **\$22.2** FORECAST Thru 6/2021: **\$35** TOTAL PROGRAM VALUE: **\$210** PERIOD CASHFLOW: **\$3.7**

STATUS – Renew Stations

STATUS KEI								
# Projects in Planning	-	# Projects in Design# Projects in Bid/Award			# Projects in Construction	-		TOTAL # Projects
1	2		0		6		0	9
			MILEST	ONES				
Completed (Apr 2020 – Jul			Q1 (Aug 2020 – Sep 2020)		Q2 (Oct 2020 – Dec	2020)	(Jan 2022	Q3 L – Mar 2021)
 Continue fabricatio three escalators of Street Escalators Co Construction contin restrooms and othe on the concourse a platform levels for Station NTP and Continue s processing and plan work on Canopy Co Begin Site Mobiliza Powell St. Station Modernization 	Market ontract nues at er locations nd 19 th St submittal nning site ntract	being fa begin in Escalato Continue Canopy Hazmat Station I Complet	factory inspection of escal bricated, deliver to site, an stallation for Market Street ors Contract e processing submittals for Contract abatement work for Powe Modernization te 100% Design for Walnut OD North Stairs	d t II St.	 Continue install escalators and fabrication of additional escal for Market Stre Escalators Cont Begin potholing investigation for existing subsurf obstacles on Ca Contract 	ators et ract or ace	 installation Market Str Contract Installation infrastruct Stations in Canopy Co Southeast Commission completion Intermoda Submit Wat 	preparation for ntract

Watchlist:

Italic: Modified milestones from previous report.

24

• Funding Walnut Creek TOD North Stairs Construction



EXPENDED Thru 7/2020: **\$18.2** FORECAST Thru 6/2021: **\$46** TOTAL PROGRAM VALUE: **\$135** PERIOD CASHFLOW: **\$2.9**

STATUS – Expand Safe Access to Stations

I	1									
# Projects in Planning	# Proje Des				# Projects in Bid/Award				•	TOTAL # Projects
1	13	3	1		4	6 25				
				MILEST	ONES		-			
Completed (Apr 2020 – Jul 2		(Aug 202	Q1 0 – Sep 2020)	Q2 Q3 (Oct 2020 – Dec 2020) (Jan 2021 – Mar						
 Began Construction Antioch Parking Lo Substantial Complete Embarcadero and Ci Bike Station Modern Submit Bicycle Stair Bid Documents to Procurement for Rev Launch Safe Routes Grant Program 	ot Contract ion for vic Center nization Channels view	 BART gra Begin close Embarcado 	seout for dero and Civic ke Station	Contro Subm. Bid Do for ad Execu Jurisd Progra Comp	it Accessibility Improvement ocuments to Procurement to lvertising Ite Funding Agreements wit lictions for Safe Routes to B	t (Phase 1) o prepare h ART Grant	eBART An Contract • Advertise Improven • Construct of the Wa			

Watchlist:

Italic: Modified milestones from previous report.

• eBART – Antioch Parking Lot delayed due to COVID-19



EXPENDED Thru 7/2020: **\$26.3** FORECAST Thru 6/2021: **\$41** TOTAL PROGRAM VALUE: **\$200** PERIOD CASHFLOW: **\$9.0**

STATUS – Design / Engineer to Relieve Crowding

	<u>, </u>	<u> </u>		<u> </u>			
# Projects in Planning	-	rojects in # Projects in Design Bid/Award		# Projects in Construction	# Projects Completed		TOTAL # Projects
2		4	1	1		1	9
			MILESTO	DNES		-	
Completed (Apr 2020 – Jul 2		(Aug	Q1 g 2020 – Sep 2020)	Q2 (Oct 2020 – Dec 202	20)		Q3 – Mar 2021)
 Complete Design for Maintenance Compl 2: Civil/Grading Brief BART and CCJP on professional serv contract for Planning/Environme Engagement for New Rail Crossing 	ex Phase A Board ices ental/	Complex I Procurem • Award an Maintena (Mainline • Advertise Complex I • Advance p services c Environm	r Hayward Maintenance Phase 2: Trackwork ent d NTP for Hayward nce Complex Phase 2:) Trackwork Procurement Hayward Maintenance Phase 2: Civil/Grading process for professional ontract for Planning/ ental/ Engagement for sbay Rail Crossing	 NTP for Hayward Maintenance Complex 2: Trackwork Procurem Award Hayward Mainte Complex Phase 2: Civil/Grading Evaluating proposals for Planning/ Environmental/Engage for New Transbay Rail Crossing Begin Steel Erection fo Center Station Scissor 5 	nent enance or ement r Civic	Complex Pha Civil/Grading • Award for Ph Environment for New Tran • Complete Re	anning/ al/Engagement sbay Rail Crossing

Watchlist:

Italic: Modified milestones from previous report.

• Approval to award based on Full Funding Grant Agreement for Hayward Maintenance Complex 2: Mainline Trackwork Procurement



Budget and Schedule Status

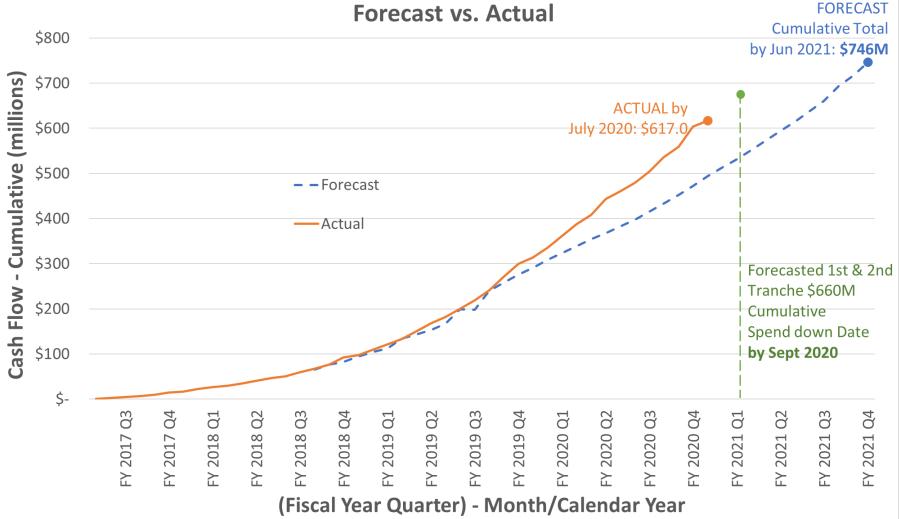
Mid-Term & Long-Term Outlook

			Period			Forecast Expenditu	res
Program	Expended (thru March 2020)	Expended (thru July 2020)	% Expended out of Total Bond Investment	Expended out of Total Bond Luly		MID-TERM (thru 2025)	LONG-TERM (thru End of Bond)
Renew Track	\$168.3	\$200.9	32%	\$32.7	\$200	\$400	\$625
Renew Power Infrastructure	\$199.5	\$237.0	19%	\$37.6	\$275	\$608	\$1,225
Repair Tunnels & Structures	\$44.5	\$54.9	10%	\$10.4	\$64	\$268	\$570
Renew Mechanical	\$19.4	\$30.3	22%	\$10.9	\$46	\$65	\$135
Replace Train Control/Increase Capacity	\$21.9	\$27.3	7%	\$5.4	\$39	\$286	\$400
Renew Stations	\$18.5	\$22.2	11%	\$3.6	\$35	\$148	\$210
Expand Safe Access to Stations	\$15.3	\$18.2	13%	\$2.9	\$46	\$86	\$135
Design/Engineer to Relieve Crowding	\$17.3	\$26.3	13%	\$9.0	\$41	\$69	\$200
Total	\$504.7	\$617.0	18%	\$112.3	\$746	\$1,930	\$3,500

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BART Measure RR Program Spending



Earned Value Rollup by Program -

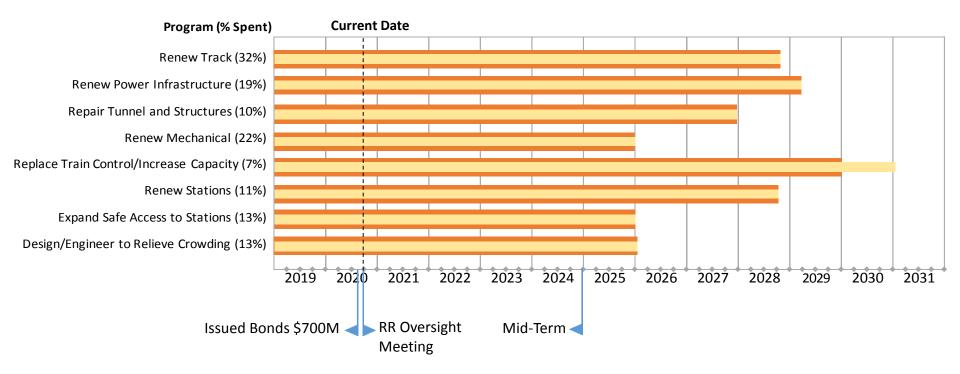
RR Program	Total RR Budget	Physical % Complete	Planned Value	Earned Value	RR Accrued to Date	СРІ	SPI
Renew Track	\$625	39%	\$239.36	\$241.73	\$236.36	1.02	1.01
Renew Power	\$1,225	24%	\$325.24	\$294.06	\$293.51	1.00	0.90
Repair Tunnels and Structures	\$543	11%	\$73.25	\$61.44	\$63.33	0.97	0.84
Renew Mechanical	\$162	24%	\$45.67	\$38.39	\$34.63	1.11	0.84
Replace Train Control/ Increase Capacity	\$400	7%	\$38.15	\$27.46	\$32.81	0.84	0.72
Renew Stations	\$210	9%	\$21.86	\$18.50	\$17.35	1.07	0.85
Expand Safe Access to Stations	\$135	19%	\$29.42	\$26.32	\$25.47	1.03	0.89
Design/Engineer to Relieve Crowding	\$200	14%	\$31.88	\$28.26	\$28.01	1.01	0.89
Total	\$3,500	21%	\$804.83	\$736.16	\$731.47	1.01	0.91

Track Program Drill Down

Project	Count
Number of Projects (>25% Spent)	12
CPI <0.9 or >1.1	5
SPI <0.9 or >1.1	2
Number of Risk Register Updates Performed in Previous Period	5
Number of Project Quality Reviews Performed in Previous Period	22

Project	Physical % Complete	СРІ	SPI	Comments
C35 Interlocking Replacement	98%	1.13	0.98	Substantially complete; Efficiently using maintenance forces
Restraining Rail Replacement	93%	1.12	0.99	All rails replaced; Efficiently using maintenance forces
C25 Interlocking Replacement	77%	1.17	1.01	4 turnouts replaced; Construction cost less than planned
Replace Direct Fixation Pads	74%	1.22	2.23	11,800 pads replaced since April 1; Benefitting from extended blanket hours due to COVID-19 response
Friction Modification Study	62%	0.85	0.62	Project being rebaselined to include scope change

Program Level Schedule Update



Baseline
Forecast

Future updates may include additional projects as programs mature.



- Ongoing Development:
 - Award CBTC Design Build Contract
 - East Bay Substation Repackaging for Bid
 - Update forecast for 3rd Tranche
- Under Development
 - December 2020 Bond Oversight Meeting