

MEASURE RR BOND OVERSIGHT COMMITTEE

ORAFT **ANNUAL REPORT**

JUNE 2022



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Dear Bay Area residents:

Thank you for your interest in BART's Measure RR rebuilding program and welcome to the fifth annual report published by the independent Measure RR Bond Oversight Committee. This committee was established when voters in Alameda, Contra Costa, and San Francisco counties approved Measure RR in 2016. The \$3.5 billion bond measure was supported by more than two-thirds of voters in the three counties that comprise the BART District.

Measure RR is meant to build a better BART system by replacing essential infrastructure components that in some cases are more than 50 years old. The independent Bond Oversight Committee is comprised of members with expertise in engineering, finance, and project management. It's the charge of the committee to verify that BART is spending bond revenues in a manner that is consistent with what was promised to voters in 2016.

This year's report examines the progress of Measure RR work with a special focus on the impacts of the on-going global pandemic. The report updates key construction milestones, measures the rate of progress compared with initial expectations for the program, and explains how BART is measuring up to legal requirements for spending bond money.

The Bond Oversight Committee wants to hear from riders and taxpayers. The committee holds quarterly public meetings via videoconference that are open to the public. The committee will return to in person meetings once it's deemed safe by health officials. You can learn more about upcoming meetings at the committee's website www.bart.gov/bondoversight.

We will publish annual reports throughout the lifetime of Measure RR.

Sincerely,

Michael R. McGill

RR Bond Oversight Committee Chairperson

Professional Engineer, Institute of Electrical and Electronic Engineers (IEEE) seat

OTHER COMMITTEE MEMBERS

Full biographies and photographs at www.bart.gov

MARIAN BREITBART, Budgeting & Financial Management Seat

VINIT SHRAWAGI, Accounting Seat

DAREN GEE, Civil Engineering Seat

CATHERINE NEWMAN, League of Women Voters Seat

CINDY ROSENTHAL, League of Women Voters Seat

SONJA STEWART, Project Management Institute Seat

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EXECUTIVE SUMMARY

The Measure RR infrastructure rebuilding program has made significant advancements in the past year despite the continuing impacts of the global pandemic. This work has taken place as BART has continued to fulfill its role as a transportation lifeline for hundreds of thousands of riders across five Bay Area counties. Now that the Measure RR program has been in existence for five years there are more rebuilding projects taking place across the system than at any point in BART's history.

Throughout the rebuilding work supported by Measure RR, the independent Bond Oversight Committee has continued to fulfill its mandate to evaluate the program with an emphasis on overseeing cost effectiveness, quality, and the timeliness of work completion. This fifth annual report from the Bond Oversight Committee provides an overview of the Measure RR program. The committee reports on what work has been accomplished to date, what comes next, and how the amount of work completed compares with what was promised to BART District voters in 2016.

Through March 2022 \$1.26 billion of Measure RR funds had been invested in rebuilding projects. There is now a total of 150 projects that are in planning, design, construction, or have been completed. The number of completed projects has increased from 22 in this committee's last report in 2021 to 36. Measure RR is now five years, or 25%, into its expected 20-year lifespan of work. Yet 35% of all anticipated Measure RR work has already been completed. This is well ahead of projections made by BART in 2016 when Measure RR was put before BART District voters.

This report examines the progress made on BART's rebuilding efforts in the following major program categories: Renew Track, Renew Power Infrastructure, Repair Tunnels and Structures, Renew Mechanical Infrastructure, Renew Stations, Train Control Modernization, Relieve Crowding, and Access Improvements. Progress has been made across these categories throughout the life of the overall program. Work completed to this point includes:

- Replacement of 42 out of 103 miles of worn rail.
- 31 track switches replaced. Track switches are part of interlockings, which allow trains to safely move from line to line.
- 46 miles out of approximately 103 miles of 34.5kV (kilovolt) cable have been replaced to ensure trains have a reliable source of power.
- Enhancement of 59 miles out of approximately 73 miles of third rail coverboard (coverboards are curved pieces of fiberglass that protect the electrified third rail that powers trains).

In the last year BART has completed work on 14 projects including the successful earthquake retrofit of one of the bores of the Transbay Tube and the Union City Station modernization project. Also, riders in downtown San Francisco are now riding the first of 41 new escalators that will be installed at BART's busiest stations over the next several years.

Based on its review of projects and data presented by BART staff, the Bond Oversight Committee believes BART is living up to the bond mandate from Measure RR and its promises to voters. BART is delivering rebuilding projects in a timely manner, those projects are enhancing the reliability and safety of the system, and the work is being pursued in accordance with industry best practices.

BART RESPONDS TO THE PANDEMIC

BART's response to the global pandemic has been shaped by advance planning and redeploying resources to make the most of reduced service hours during the height of public health orders. Throughout the last two years BART has reevaluated its rebuilding projects and prioritized those that could move forward with available materials and benefit from additional labor. That approach has allowed BART to advance several major initiatives ahead of their initial schedules, which means reduced impacts from that work on riders.

Projects that have achieved some of the most significant gains during the pandemic include:

- Rail reprofiling, 65% complete. This work involves resurfacing the rail so that trains make less noise and experience a smoother ride as they travel through the system. This work helps to reduces wear and tear which will save on costs in the future.
- Cable replacement, 78% complete. Installing new 34.5 kV cable helps to ensure trains have a reliable source of power. Much of this work has occurred in the core of the system in downtown San Francisco.
- **Switch replacement, 45% complete.** Switches are a railroad's answer to intersections for cars. They allow trains to safely transition from line to line. Switch replacement typically involves moving heavy track components and shutting down sections of trackway on weekends.
- Replacing fire hosing and piping, 98% complete. This is a critical advancement for protecting the public and BART employees. This work allows BART to better respond to emergencies in the trackway as well as in maintenance and storage facilities.

As of February 14, 2022, BART restored its service hours to pre-pandemic levels. Before that from March 2020 until early 2022 BART offered reduced service hours including a 9pm closing time for the first seven months of 2021. That increased the available window for crews to complete work in the system. BART employed a practice known as "load shedding" to support RR work. Load shedding refers to shifting BART employees from operating responsibilities to capital projects which require similar skill sets. This strategy had the added benefit of reducing operating costs during a period of low ridership. BART shifted as many as 200 employees from operations to capital rebuilding projects.

Prioritizing worker safety

BART has worked closely with its labor partners to promote the safest workplace possible throughout the pandemic. This on-going dialog led to a series of on-the-job safety measures including:

- Mask requirements at all BART properties.
- KN95 masks provided to workers
- 55-gallon drums of clean water and soap deployed at work sites.
- All contractors must follow local health guidelines and develop safety plans.

The independent Bond Oversight Committee is continuing to monitor supply chain issues stemming from the pandemic and examining if those concerns are impacting the Measure RR program. To this point, BART has been able to prioritize projects to keep the program moving forward but there are ongoing concerns about the rising costs of supplies.

ABOUT THE BOND OVERSIGHT COMMITTEE

Michael R. McGill



American Institute of Electrical Committee League of Women



Marian Breitbart Financial Management Seat



Vinit Shrawagi Association of Budgeting & American Institute of Certified Public Accountants Seat



Cindy Rosenthal



Daren Gee Civil Engineering Management and Oversight Seat



Sonja Stewart

The independent Bond Oversight Committee (BOC) is comprised of seven members whose primary responsible is to verify that Measure RR revenues are being spent as promised to the public.

The BOC is responsible for providing diligent, independent, and public oversight of the expenditure of funds from bond sales. The BOC assesses how bond proceeds are spent to ensure all spending is authorized by the ballot measure. The committee assesses whether projects funded by bond proceeds

are completed in a timely, cost-effective, and high-quality manner consistent with the best interests of BART riders and District residents. The BOC also publishes this annual report.

The panel is comprised of members who represent a diversity of expertise, geography, and demographic characteristics.

- The American Society of Civil Engineers, or its successor organization, is represented by one member who has expertise in civil engineering management and oversight.
- The Institute of Electrical and Electronic Engineers, or its successor organization, is represented by one member who has expertise in electrical engineering management and oversight.
- The American Institute of Certified Public Accountants, or its successor organization, is represented by one member who has expertise in audit or financial oversight.
- The Association for Budgeting & Financial Management section of the American Society for Public Administration, or its successor organization, is represented by one member who has expertise in municipal finance.
- The Project Management Institute, or its successor organization, is represented by one member who has expertise in project management.
- The League of Women Voters, Bay Area, or its successor organization or chapter is represented by two members.

Members serve two-year terms and are eligible to serve up to a total of six years. Members of the BOC are appointed by the BART Board of Directors. You can find the full text of the duties and responsibilities of the BOC in Section 11 of the resolution that established the committee. It's available at www.bart.gov/about/bod/advisory/bond.

THE STORY OF MEASURE RR

The roots of the Measure RR rebuilding program can be traced back to 2014 when BART staff identified a critical need to rebuild the backbone of the system. Despite employing the best preventative maintenance practices for decades, the critical assets that allowed BART to operate were deteriorating from nearly 50 years of heavy use. Rail, track switches, electrical power cables, coverboards, and many more components were poised to reach the end of their design lives within the coming 10 years.

Faced with this reality, BART leaders decided to turn to the voters for support in keeping the Bay Area's critical transportation system operating and moving BART into a state of good repair. BART's Office of External Affairs organized more than 200 meetings starting back in 2014. The Better BART education campaign included meetings with community groups, business organizations, advocacy groups, and elected officials.

In 2015 community leaders and organizations came together to form the Better BART Bond Community Stakeholder Committee. Bike East Bay, Self-Help for the Elderly, East Bay Leadership Council, San Francisco Bicycle Coalition, Metropolitan Transportation Commission, United Seniors of Oakland and Alameda County, Transform, Sierra Club, SPUR, Bay Area Council, League of Women Voters on the Bay Area, and Genesis all had seats at the table to ensure the bond measure reflected the interests and needs of the District's many communities.

BART District voters approved the \$3.5 billion bond in November of 2016. More than 70% of voters in the BART District (Alameda, Contra Costa, and San Francisco counties) cast ballots in favor of Measure RR in that election. The bond measure easily exceeded the two-thirds support requirement to become law.

BETTER BART PROGRAM

Your input matters Our process included:

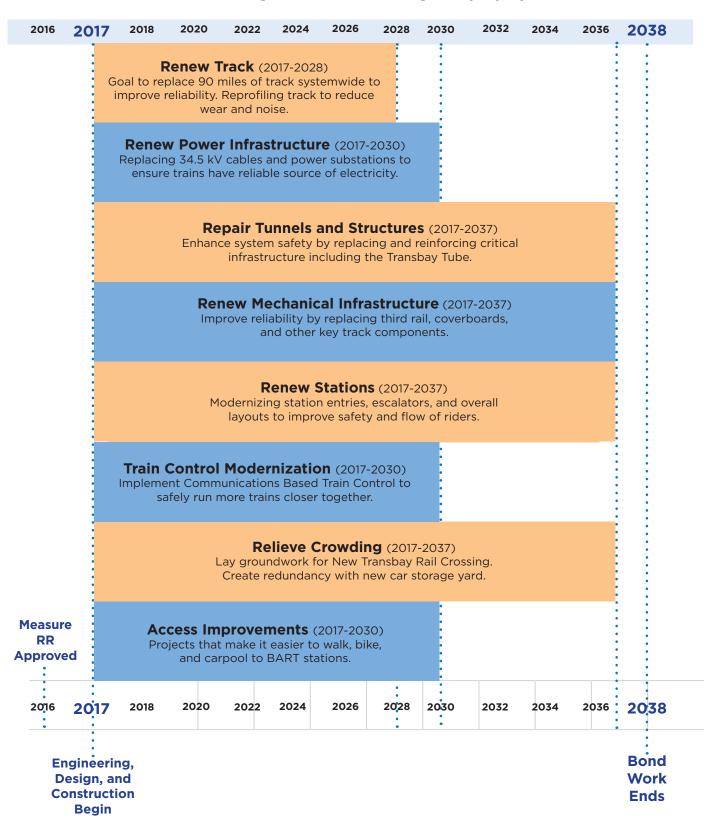


PAST ACCOMPLISHMENTS 2016-2021

Voters passed Measure RR 2016 Underwriting Pool Request for Proposals Board approved Underwriting Pool 2017 Presentation to Rating Agencies Bond Pricing • Planning Track Program A15 Track Interlock replaced in Oakland • MO3 Track Interlock replaced in Oakland • Established a Bond Oversight Committee 2018 Issued \$300 million in green bonds that qualify for climate friendly projects Conducted extensive outreach with small businesses • \$96.5 million contract awarded to replace more than 40 aging escalators in SF Completed platform edge rehabilitation at MacArthur and Rockridge stations 2019 Construction underway on El Cerrito del Norte -Ohlone Greenway • Construction underway on West Side Pedestrian Bridge at Warm Springs Station Awarded 8 General Engineering Service contracts totaling \$320 million Reprofiled 149 miles of track • 23 track switches replaced at junctures in the system 2020 Replaced 6 miles of 34.5kV cable in Oakland and SF Replaced 118 cross passage doors and 2 lower gallery doors in the Transbay Tube • 34 miles of worn rail replaced • Replaced 27 miles of 34.5kV electrical cable 2021 • Upgraded platform edges at 7 stations Replaced 58 miles of third rail coverboards • Completed 4 major Station Modernization and Station **Access projects**

THE LIFE SPAN OF MEASURE RR

Measure RR work is organized in to these eight major project areas.



ADVANCING SUSTAINABILITY

In addition to ensuring Measure RR projects are being pursued in a timely and cost-efficient manner the independent Bond Oversight Committee also has a mandate to ensure the work is measuring up to BART's sustainability standards. BART has committed to being a leader in sustainability by providing safe, affordable, and environmentally friendly transit to move people to jobs, recreation, and services. On average, BART is 10 times more efficient than a typical car with only one occupant. There are multiple examples of how funding from Measure RR is helping BART to deliver on its commitment to sustainability.

- Measure RR funding has been used to replace old water mains at shops and yards in Concord, Richmond, and Hayward. New mains improve leak detection capabilities.
- BART's rail grinding efforts are helping to combat noise pollution. The improved rail combines with a new wheel profile on trains to reduce the infamous BART screech. Interior train car noise measurements have decreased from 95 to 75 decibels in some of the loudest portions of the system.
- The Safe Routes to BART program leverages funding from Measure RR to support local projects that enhance bicycle and pedestrian connections to stations. The program identifies projects that offer a minimum funding match of 30%, have evidence of local governing body support, and have at least 35% design completion.



MONITORING PUBLIC IMPACTS OF LARGE PROJECTS

Public outreach is essential to inform riders of potential impacts from the large construction projects that are part of the Measure RR rebuilding program. The independent Bond Oversight Committee has a mandate to monitor impacts on both riders and neighbors of work areas as well as the efforts made by BART to inform the public about the work and how it may impact their daily lives. Though service impacts are often unavoidable for the level of work happening in the BART system, extensive public outreach is essential to maintain public trust in the RR rebuilding program.

Starting in May of 2021 and continuing through October BART crews focused on rebuilding a key section of trackway in southern Alameda County. On seven non-consecutive weekends BART service was stopped between the South Hayward and Union City stations. On shutdown weekends BART riders in that area had to get off their trains and take a free bus between the two impacted stations. Typical delays for riders during this work ranged between 20-25 minutes. In addition, the project required the cancellation of the last trains on worknights.

The shutdown schedule impacted the Memorial Day and Labor Day holiday weekends. BART often schedules track shutdowns on holiday weekends because while a typical two-day shutdown offers 36 hours for productive construction time a three-day shutdown can provide around 60 hours. That's time spent doing actual work as opposed to staging crews or breaking down equipment when the trackway must be reopened. That increase in usable work time represents a nearly 67% increase in productivity.

BART's Communications and Government and Community Relations teams worked in tandem on a public outreach campaign. A news article was posted in the Planned Service Advisory page of BART. gov approximately two months before the first shutdown weekend. The article was regularly updated throughout the work and highlighted on the homepage of BART.gov before weekend shutdowns. A news release was written and shared with a distribution list of more than 300 local news agencies and reporters.

Posters with closure dates and service maps were installed in impacted stations. Social media messages about the work and its impacts were posted on Twitter and Facebook throughout construction and special service advisories were issued on construction days. BART purchased online and radio advertising to promote the work and impacts. BART staff sent three direct mail pieces with information about the project to approximately 15,000 addresses near the work area. BART staff briefed officials from Hayward and Union City as well as Alameda County and the Valley Transportation Authority. Key stakeholders and community groups including the NAACP, chambers of commerce, and school districts were briefed on the project.

Look ahead to future track shutdowns

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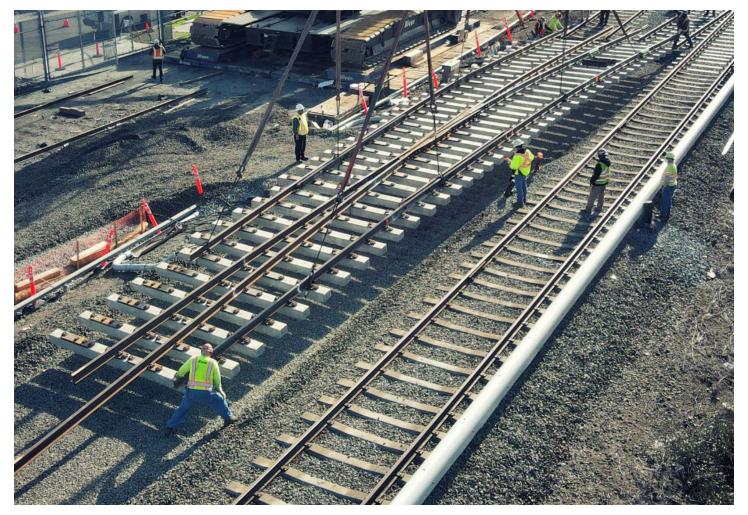
Work in this same section of trackway between South Hayward and Union City continues in 2022. In 2023 BART plans to replace interlockings between Union City and Fremont as well as between Rockridge and Orinda. The work between Union City and Fremont is expected to require shutdowns on as many as six non-consecutive weekends while the work between Rockridge and Orinda may take up to five weekends. Buses that are free for riders will replace trains on all shutdown weekends in the work zones. Dates for the weekend closures have not yet been finalized. The Oversight

Committee will continue to closely monitor impacts. Members of the public can get the latest details on service impacts resulting from rebuilding projects by going to **www.bart.gov/schedules/advisories.**

Equity and RR

Dollars invested from Measure RR as well as the impacts and benefits of the work have been distributed across the many communities that are part of the BART District. Major track rebuilds have been successfully completed in West Oakland and Hayward in Alameda County as well as Orinda, Lafayette, and Richmond in Contra Costa County. Meanwhile, efforts to replace traction power cables to ensure trains have a reliable source of electricity have been ongoing in San Francisco. Each project is accompanied by extensive public outreach that informs not only the general public but the communities near BART's trackway that face potential construction impacts including noise and lights.

Through March 2022, \$432 million of investments from Measure RR have been awarded to firms located across the three RR counties in the BART District as follows: Contra Costa County \$220 million, Alameda County \$139 million, San Francisco County \$73 million.



PROJECT MANAGEMENT CULTURE

The magnitude of the Measure RR rebuilding program has served as a catalyst for BART to ensure staff members are following industry best practices in the completion of projects. This effort has grown over the first five years of the program with an emphasis on transparency, consistency, and quality.

A key guide in the transformative process of establishing a project management culture has been the Project Management Institute (PMI). PMI is widely recognized as the industry and international standard for project management and project controls. PMI defines project controls as a process that utilizes everything in BART's toolbox for projects including resources, procedures, and people. PMI guidelines are consistent with the Federal Transit Administration and call on BART staff to use schedule, budget/cost, earned value, risk management, and cost tracking to build a single source of truth. That means putting all the data for a project in one place where it's interlaced. It's an opportunity to ensure factors like cost, schedule, and quality are in alignment and telling the same story about a given project. This single source of truth makes it easier to monitor progress on work and ensure a project is delivered in a way that's consistent with what was promised to stakeholders.

A Culture Built on Training

PMI offers a certification program called the Project Management Professional (PMP). BART is not only encouraging project managers to go through the program but other team members such as resident engineers, stakeholders, and executives are receiving this specialized training. BART has started a project management forum, which is held for staff every two weeks. Also, in July staff started attending project manager boot camps offered by BART. These boot camps emphasize and explain the best practices being adopted by the District to deliver RR-funded projects.

REDUCING IMPACTS THROUGH PLANNING

Advanced planning is a critical component of the success thus far of the Measure RR rebuilding program. Coordinating work between dozens of projects happening simultaneously on an active transportation system is a challenge and could become even more complex as the RR program advances.

BART utilizes industry-best practices in its planning with an emphasis on deconfliction. This means taking steps to ensure that work happening on one project does not negatively impact the progress being made on a separate project happening elsewhere in the system at the same time. Deconfliction planning is also a necessary tool to limit delays for the riding public. It's why on weekends when BART must shutdown a section of the system to rebuild a portion of trackway other work that can cause further delays is typically not scheduled.

For major projects BART will begin initial scheduling as much as three years in advance. Standard practice at BART includes developing Work Breakdown Structures (WBS) for projects. This includes developing schedules, examining how the work will be done, identifying the needed resources, and sequencing activities. Once the likely duration of construction is determined BART engages construction teams as well as community stakeholders to review plans before a schedule is established. BART does this level of planning on at least a monthly basis. The RR team builds on that by taking weekly looks at what work is underway, the level of progress being made, and further ensuring projects are not interrupting each other.



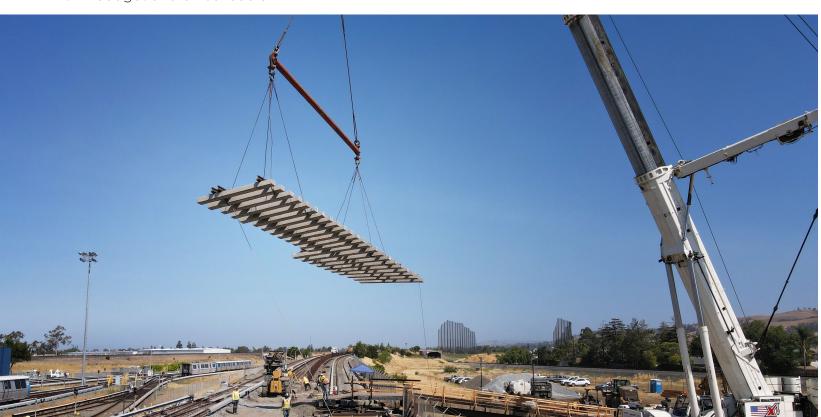
MAJOR PROJECTS: RENEW TRACK

For all of 2021 and the first six weeks of 2022 BART operated with reduced service hours compared with what was offered to riders before the pandemic. This increased the amount of productive construction time available to workers for Measure RR rebuilding projects. Efforts to replace worn out rail and trackway components benefited from the boost in available work hours.

BART has now replaced 42 miles of worn rail across the system. That's an increase from the total of 34 miles listed in last year's report. A total of 20 projects have been launched in the Renew Track category. That includes 8 that have been completed and 9 that are currently under construction. Much of the recent rail work has been happening in southern Alameda County. BART is replacing interlockings between the South Hayward and Union City stations. That area is home to the oldest line in the BART system and includes track components that have outlived their design lives. Interlockings are a railroad's answer to intersections on the roadways. They allow trains to safely move from line to line. BART has replaced 31 switches, which are the main components of interlockings.

BART is also making progress with its Direct Fixation (DF) Pad Replacement program. DF Pads are fasteners that hold the rail in place. BART has developed a new DF pad that can be secured with a clip and is much easier to replace. They feature a steel plate wrapped with vulcanized rubber and are designed to prevent stray current and provide a smoother ride. These new pads are replacing old ones that are secured by bolts, more vulnerable to sheer, and are highly labor intensive to replace. There are 345,000 pads throughout the system.

Measure RR dedicates a total of \$625 million toward renewing track. Through March 2022 \$313.7 million in RR funding has been invested in track renewal projects. 55% of planned work has been completed in the Renew Track project category. The completed work has a value of \$346.29 million. Work in this category is proceeding slightly better than planned and is expected to be completed within budget and on schedule.



Active Projects Completed or Under Construction



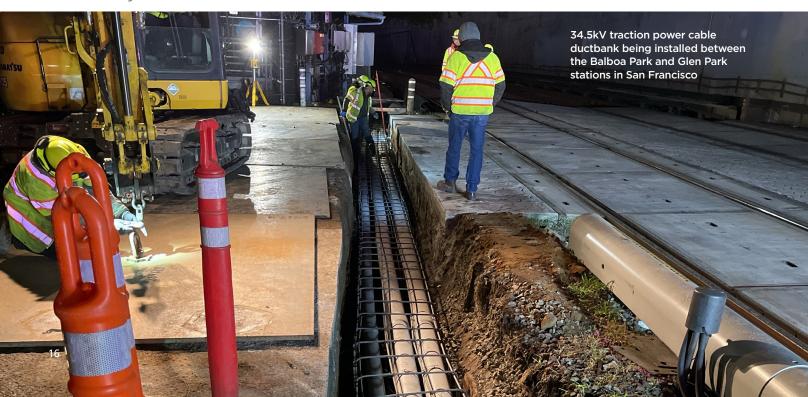
MAJOR PROJECTS: RENEW POWER INFRASTRUCTURE

Work to replace aging power cables in the core of the BART system has been accelerated throughout the pandemic and is helping to ensure that trains have a reliable source of electricity. In the lifetime of Measure RR work crews have now replaced 46 miles of 34.5kV cable, an increase from 27 miles replaced as of this committee's annual report in 2021. A total of 29 projects have been initiated in this project category with 17 in construction and 2 completed.

Much of the cable replacement work has been happening on nights and weekends in downtown San Francisco. Reduced service hours throughout 2021 allowed crews to make significant progress and shave months off the initial time frame for the project. Work is continuing in downtown San Francisco and is expected to require service be reduced to only one track in that area on a dozen Sundays in 2022. That reduction to one track is expected to cause delays for riders of 10 minutes.

The workers face challenging conditions in the dark, cramped underground space. Large fans blow fresh air - required for workers to safely breathe - into the tunnel. They're installing modern and robust high-voltage cables to reliably run trains. The cables are run through conduits (protective pipe) that are designed to be lightweight, strong, and durable. They're expected to require less maintenance and offer a longer service life than the conduit being replaced. Cable replacement work has also been happening in Alameda County and has expanded to the Richmond line.

Measure RR dedicates a total of \$1.225 billion towards the renewal of BART's power infrastructure. Through March 2022 \$472.7 million in RR funding has been invested in power infrastructure projects. 37% of planned worked has been completed in the Renew Power Infrastructure project category. The completed work has a value of \$455.85 million. Work in this category is proceeding as planned. BART is keeping a close watch to mitigate pricing estimate increases seen recently in the industry.



Active Projects Completed or Under Construction



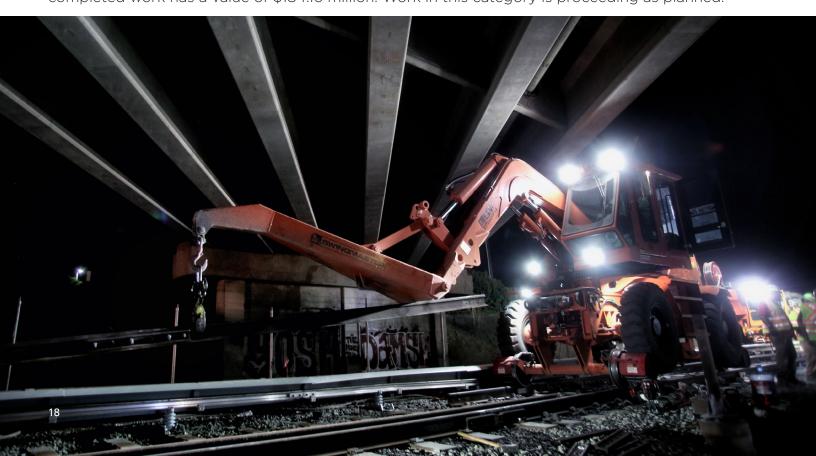
MAJOR PROJECTS: REPAIR TUNNELS AND STRUCTURES

It's not a question of if but when the San Francisco Bay Area will be struck by another large earthquake. BART for years has prioritized reinforcing the system to withstand a major temblor, but that work has been accelerated with funding from Measure RR. An area of focus for this RR-funded earthquake safety work is the Transbay Tube where workers have successfully completed the retrofit of one of the tunnel bores. The retrofit involved the installation of an inner steel lining to key sections of the 3.6-mile-long tube as well as an upgraded pumping system to allow larger quantities of water to be removed quickly from the tube. More work is ahead for the tube's second bore. The tube is already structurally sound, but the retrofit will prepare the structure to withstand a rare and devastating quake defined as a 1,000-year-event, something that happens once every thousand years.

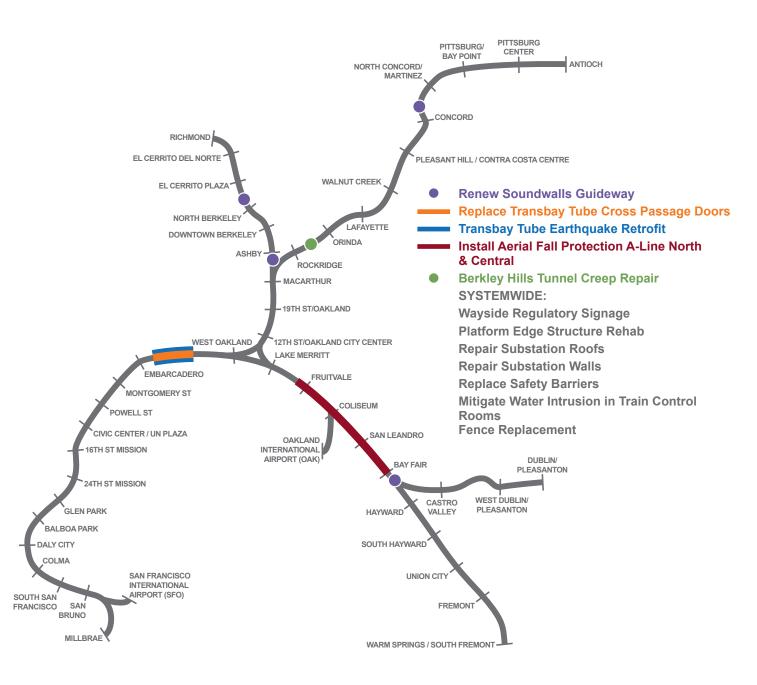
Other safety work is being pursued across the BART system. Design work is complete for work to ensure BART train control rooms and other critical infrastructure are better protected against water intrusion. Construction is underway in Alameda County on new aerial fall protection structures and catwalks to enhance safety for BART employees. Work has also started to rehabilitate the fence that secures the Richmond Rail Yard.

A total of 26 projects have been launched under the Repair Tunnels and Structures category including 8 that have been completed and 6 more that are currently under construction.

Measure RR dedicates a total of \$570 million toward the repair of tunnels and structures. Through March 2022 \$186.7 million in RR funding has been invested in tunnels and structures projects. 34% of planned work has been completed in the Repair Tunnels and Structures project category. The completed work has a value of \$184.16 million. Work in this category is proceeding as planned.



Active Projects Completed or Under Construction



MAJOR PROJECTS: RENEW MECHANICAL INFRASTRUCTURE

The Renew Mechanical category features a variety of projects whose goals range from protecting worker safety to quieting the infamous BART screech. Much of this work focuses on core needs such as updated Heating, Ventilation, and Air Conditioning (HVAC) systems and essential fire services. A total of 25 projects have been initiated in this program category including 5 that have been completed and 9 that are in the construction phase.

Completed construction includes the installation of HVAC replacement units systemwide. Work is also complete on rotoclone replacements. Those are high-efficiency wet dust collectors, which are essential for providing a safe work environment for many BART employees. Ongoing work includes sewage pump replacement and construction of fire services at the Richmond Yard. Design work has been completed for the initial phase of systemwide fire suppression upgrades.

Work will soon begin on the installation of a new wheel truing machine at the Concord Yard. These machines help to improve the wheels of BART trains so that their profile better fits with the rail. Combined with rail grinding, the wheel profile helps to reduce the sound of trains in tunnels and on elevated structures.

Measure RR dedicates a total of \$135 million toward renewing mechanical support structures. Through March 2022 \$68.7 million in RR funding has been invested in renewing BART's mechanical infrastructure. 43% of planned work has been completed in the Renew Mechanical Infrastructure project category. The completed work has a value of \$67.24 million. Work in this category is proceeding as planned and is expected to finish within budget and on schedule.



Active Projects Completed or Under Construction



MAJOR PROJECTS: RENEW STATIONS

Measure RR-funded initiatives are having a direct impact on the quality of the rider experience at BART's busiest stations. This is especially true for work in the Renew Stations category, which includes 9 projects that have been launched including 3 that have been completed and 4 that are currently under construction.

The restrooms at Powell Street Station in San Francisco and 9 other underground stations had been closed for more than 20 years due to public safety concerns stemming from the 9/11 attacks. In February 2022 restrooms at Powell Street and 19th Street/Oakland became the first to reopen as part of the agency's efforts to prioritize the needs of transit riders. The restrooms are designed like an airport's facilities using environmental design to promote safety. The restrooms are all-gender with LED lighting. The touchless sink is located outside of the restroom on the concourse making it easily accessible for those who just want to wash their hands. There is also a drinking fountain and water bottle filling station located nearby. The restrooms are staffed to promote proper use of the space and offer staff presence. BART is bringing in community members from the Oakland-based organization District Works to serve as attendants.

Riders are now using the first of what will eventually be 41 new escalators at BART's 4 downtown San Francisco stations. The new units are part of the Market Street Escalator Project. The first of the new escalators opened at Powell Street Station in August 2021. Another escalator opened at Powell a month later followed by a new escalator being unveiled at Civic Center Station. The new units are constructed with sustainable materials, feature LED skirt lighting, include advanced controller equipment to enhance reliability, and are more energy efficient than the previous units that have been worn down by decades of heavy use.

The escalator work is being done in conjunction with the Market Street Canopy Project, which is modifying at least 19 station entrances to better protect the new units. The canopies provide new entrance gates and include multiple security cameras as well as screens with real-time transit information. Two pilot canopies are already in place at Powell and Civic Center stations. Work is now underway on the next round of canopies at Powell and Montgomery Street stations.

Measure RR dedicates a total of \$210 million toward renewing stations. Through March 2022 \$49.3 million in RR funding has been invested in station renewal. 23% of planned work has been completed in the Renew Stations project category. The completed work has a value of \$49.21 million. Work in this category is proceeding as planned.

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Active Projects Completed or Under Construction

Status as of 03/09/2022



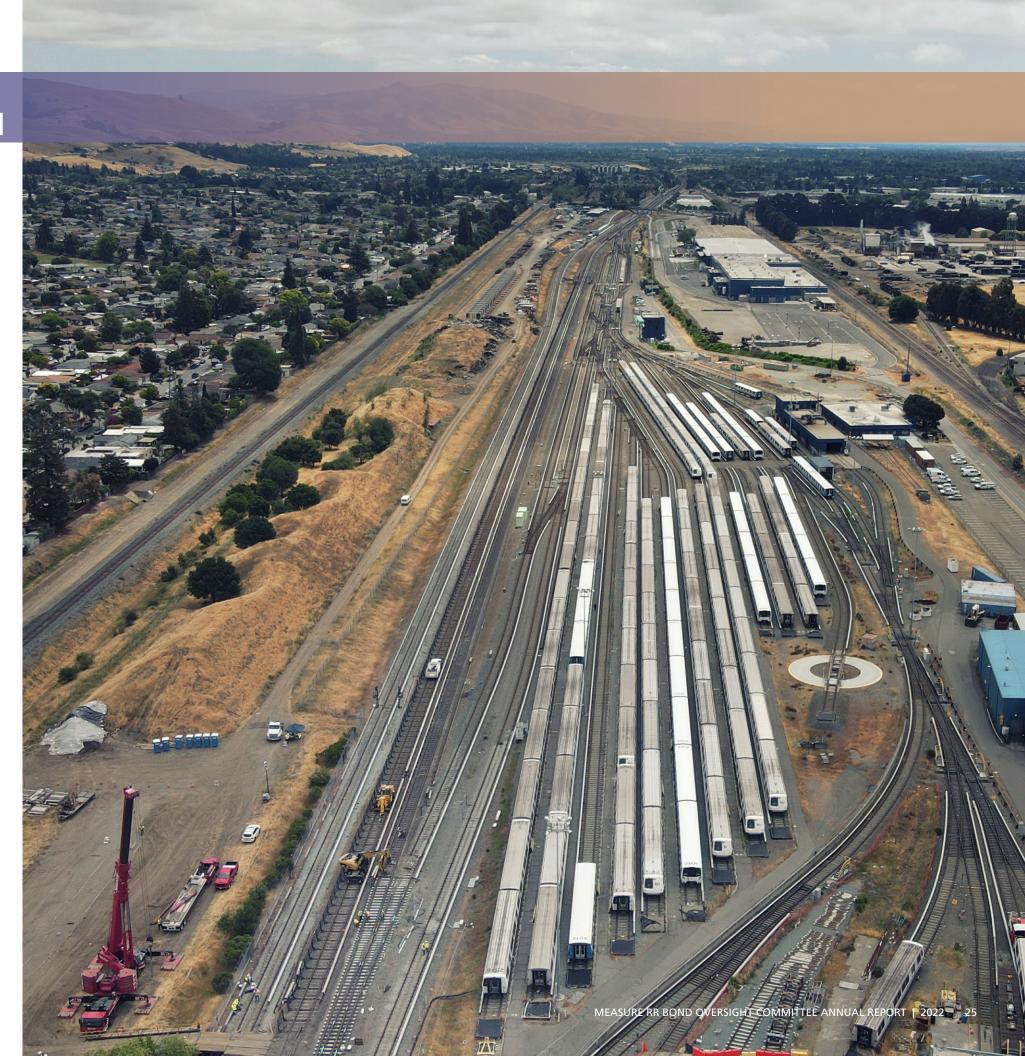
MAJOR PROJECTS: TRAIN CONTROL MODERNIZATION

Measure RR is playing an important role in allowing BART to implement a state-of-the-art Communications Based Train Control (CBTC) system over the next 10 years that will allow BART to safely expand its capacity by increasing the number of trains that can operate at the same time. BART is on track to complete preliminary design for this new system by June 2022. 7 projects have been launched in this category including 2 that are in the construction stage.

The preliminary design phase is like putting the pieces of a complex puzzle together for BART. By performing design review work throughout the system now engineers can learn what components would work best for the BART system in the decades to come. Some of the preliminary work on the CBTC system has been happening during non-revenue hours. This includes survey work on routing of the new infrastructure for CBTC. Additional work on the wayside (area next to the track) includes replacing aging power cables and power supply gear for track switches (which allow trains to safely move from line to line). This work will happen in track areas for the Fremont, Richmond, Pittsburg, and Millbrae Lines. Software build-testing has begun on an Automatic Train Supervision software system which will one day be used by BART's Operations Control Center to route and control all trains.

The Train Control Modernization Project is part of the broader Transbay Corridor Core Capacity Program, which also includes 252 additional new (E) railcars (Measure RR dollars can't be used to purchase E rail cars), a new railcar storage facility, and five new traction power substations. BART's current fixed-block train control system is very safe but limits the frequency and number of trains BART can run. The current system relies on widely spaced signal blocks to denote train occupancy on the track. This contributes to longer distances between trains and increased travel times. A new CBTC system will detect a train's location using "moving" block technology that allows for more efficient train movement. This translates to a shorter distance between trains (while maintaining safe braking distances) and means BART can safely operate more trains, improve reliability in service, and decrease travel times.

Measure RR dedicates a total of \$400 million toward the implementation of a new train control system. Through March 2022 \$61.6 million in RR funding has been invested in train control modernization. 12% of planned work has been completed in the Train Control Modernization project category. The completed work has a value of \$49.9 million. Work in this category is in its early stages and is proceeding within the expected tolerance range for this initial phase.



MAJOR PROJECTS: RELIEVE CROWDING

Projects in the Relieve Crowding category are focused on BART's long-term needs to accommodate riders as more people return to using the system from recent low usage levels brought on by the pandemic. Despite the impacts of the pandemic BART anticipates that in the years ahead ridership will return to pre-pandemic levels and eventually exceed those numbers. Measure RR is supporting seven projects so far that are meant to relieve crowding with one project completed and one under construction.

One of the most significant long-term initiatives being partially funded by Measure RR is Link 21, which encompasses multiple projects including a new transbay rail crossing. The program seeks to transform BART and the regional rail network in the Northern California megaregion into a faster, more integrated system that provides a safe, efficient, equitable, and affordable means of travel for all types of trips. Such a crossing is included in the Plan Bay Area 2050 Final Blueprint as a key strategy for building a next-generation transit system. The focus of Link 21 at this early stage has been on multiple rounds of public outreach. No construction date for a new crossing has been selected.

As part of increasing its long-term capacity BART must create more storage space for its Fleet of the Future rail cars. That will be accomplished through the construction of a new facility at the Hayward Maintenance Complex. The project is expected to seek a Notice to Proceed with essential grading work later in 2022.

Relieving crowding can be as simple as making it easier for bicyclists to get in and out of stations. As an example, work has been completed on scissor stairs at Civic Center Station in San Francisco. Scissor stairs allow users to walk up or down while easily guiding their bikes along a channel that runs parallel to the steps.

Measure RR dedicates a total of \$200 million toward relieving crowding. Through March 2022 \$72.3 million in RR funding has been invested on crowding-related projects. 32% of planned work has been completed in the Relieve Crowding project category. The completed work has a value of \$63.44 million. Work in this category is proceeding as planned.

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Active Projects Under Construction, Design or Planning

Status as of 03/09/2022



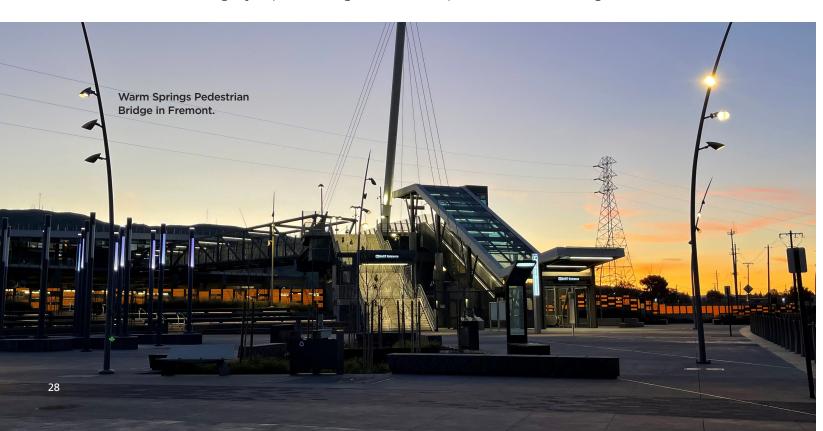
MAJOR PROJECTS: ACCESS IMPROVEMENTS

One of the purposes of Measure RR is to support projects that make it easier for riders to get to and use BART. These projects not only benefit the environment but have the potential to better connect the BART system with the communities it serves. Measure RR has so far supported 28 projects in this category including 9 that have been completed.

The approximately 250-foot-long Warm Springs Pedestrian Bridge opened to the public in February. The span better connects the Warm Springs/South Fremont BART Station with the burgeoning Fremont Innovation District by providing direct access for businesses, offices, and homes on the west side of the station. Since it first opened in 2017, riders on the western side of the Warm Springs/South Fremont Station have had to take an indirect route to get to the station due to the nearby presence of five sets of Union Pacific railroad tracks. The new steel truss bridge crosses over those tracks allowing direct access to the station for thousands of riders and neighbors. The bridge includes a cable-stayed section connected to a massive white 110-foot pointed pylon.

In late 2021 construction was completed on a new 850 stall parking lot at the Antioch Station. In addition to a new parking lot, the project included relocated/expanded ADA and motorcycle parking as well as improved passenger pickup/drop-off and bus lane circulation in the existing parking lot. It also include the construction of a multi-use pathway from Hillcrest Avenue to the entrance of Antioch Station and improved maintenance access to BART facilities near the BART/ eBART transfer platform.

Measure RR dedicates a total of \$135 million toward access improvements. Through March 2022 \$36.1 million in RR funding has been invested in access improvements. 24% of planned work has been completed in the Access Improvements project category. The completed work has a value of \$32.29 million. Work in this category is proceeding within the expected tolerance range.



Active Projects Completed or Under Construction



FUNDING RR WITH GREEN BONDS

Since the inception of the Measure RR rebuilding program BART has financed construction through the issuance of climate-certified Green Bonds. This is consistent with BART's long-term sustainability goals. BART became the first transit agency on the West Coast to earn such a climate certification for its bonds when in June 2017 the District received certification through the Climate Bonds Initiative's Low Carbon Transport Standard. The Climate Bonds Initiative promotes investments in projects that bring the world closer to a low carbon and climate resilient economy consistent with the 2015 Paris Agreement. As the market for these Green Bonds grows costs for climate-friendly projects everywhere may decrease. Green Bonds are not more expensive than traditional bonds but they allow BART to further demonstrate its commitment to the environment.

BART has offered three tranches of Green Bonds totaling more than \$1.3 billion to support the Measure RR rebuilding program since work started in 2017. The initial tranche was \$300 million and was offered in 2017. The second tranche offering in August 2019 was \$360 million and the latest tranche offered in August 2020 was for \$700 million. BART anticipated issuing the fourth tranche in May 2022 in an amount not to exceed \$700 million. BART has worked closely with its financial advisors to develop a financing plan that ensures funds are available as needed for projects while taking into consideration the rate paid by taxpayers.

The initial plan was to offer bonds in equal installments every two years for 18 years. But BART has been able to advance work ahead of schedule and as a result has needed additional funding sooner than originally anticipated. BART utilized extended work windows during the first year of the pandemic to advance multiple projects. This progress requires more resources earlier than anticipated and demonstrates the RR program is ahead of schedule. If BART stayed with its original financing plan only about \$900-\$950 million in Measure RR green bonds would have been issued so far.

Measuring up to Bond Requirements

The IRS requires that at the time of issuance the BART District must have a reasonable expectation that 85% of bond proceeds, including interest earnings on the proceeds, will be spent within three years. BART has progressed on Measure RR work at a pace that exceeds this requirement. As of December 2021, BART had already utilized 74% of the proceeds from the third tranche and was on track to spend all third tranche money by the third quarter of 2022. The District's ability to surpass this requirement indicates its success in delivering Measure RR-funded work in a timely manner.

Funds to pay back Measure RR bonds are raised through property taxes assessed in Alameda, Contra Costa, and San Francisco counties. When the program started BART estimated the average yearly tax rate over the life of the bond program would be \$8.98 per \$100,000 of assessed property value. BART further projected that the yearly tax rate would range from \$0.80 to \$17.49 per \$100,000 of assessed value. BART's latest property tax assessment for Measure RR to cover

debt service in FY 2021-2022 is \$3.50 per \$100,000 of assessed valuation. BART is monitoring future tax rates closely and when it issues its fourth tranche doesn't anticipate exceeding the \$17.49 estimate given to voters.

BART anticipates that each bond tranche will be fully paid off within 30 years of being issued. From start to finish property owners could pay off Measure RR bonds in 48 years.

RR PROGRAM EXPENDITURES OVERVIEW

	Expended	Expended	% Expended			
Program	Through December 2021	Through March 2022	Out of Total Bond Investment	MID-TERM (Through 2025)	LONG-TERM (Through End of Bond	
Renew Track	\$302.9	\$313.7	50%	\$433.5	\$625	
Renew Power Infrastructure	\$439.4	\$472.7	39%	\$868.0	\$1,225	
Repair Tunnels and Structures	\$175.2	\$186.7	34%	\$318.3	\$570	
Renew Mechanical Infrastructure	\$65.9	\$68.7	44%	\$133.0	\$135	
Renew Stations	\$46.5	\$49.3	23%	\$107.1	\$210	
Train Control Modernization	\$55.0	\$61.6	15%	\$113.1	\$400	
Relieve Crowding	\$63.5	\$72.3	36%	\$127.8	\$200	
Access Improvements	\$34.5	\$36.1	27%	\$69.2	\$135	
TOTAL In (\$ Millions)	\$1,182.8	\$1,261.2	31%	\$2,170.0	\$3,500	

MEASURE RR SPENDING BREAKDOWN

				Benefits	
Total Measure Investment	\$ Millions	% of Total Bond	Safety	Reliability	Crowding +Traffic Relief
REPAIR AND REPLACE CRITICAL SAFETY INFRASTRUCTURE	\$3,165	90%		√	√
Renew Track	\$625	18%	1	1	
Renew Power Infrastructure	\$1,225	35%	1	1	
Repair Tunnels and Structures	\$570	16%	√	√	
Renew Mechanical Infrastructure	\$135	4%	√	√	
Renew Stations	\$210	6%	√	√	√
Train Control Modernization	\$400	12%	√	√	1
RELIEVE CROWDING, REDUCE TRAFFIC CONGESTION AND EXPAND OPPORTUNITIES TO SAFELY ACCESS STATIONS	\$335	10%			
Relieve Crowding	\$200	6%		1	√
Access Improvements	\$135	4%	√	√	1
TOTAL	\$3,500	100%			

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RR - ONLY PART OF THE SOLUTION

Measure RR raises \$3.5 billion to address BART's essential infrastructure rebuilding initiatives but the system has additional capital needs that extend beyond what the bond measure can provide. BART's last Capital Improvement Program shows the District's total capital need through Fiscal Year 2033 is \$22.4 billion. As shown in the chart below, funding sources identified to rebuild and enhance the system include Measure RR and other BART funding as well as federal, state, regional, and local sources. These combined sources total \$12.4 billion, which is \$10 billion short of the District's total 15-year need.

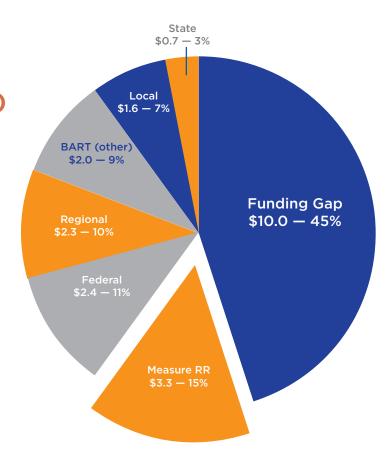
BART faces long-term capital funding challenges and continues to pursue additional grants. In 2021, at least \$15 million from Measure RR was used as a match for external funds totaling more than \$300 million (the list of grants can be seen in Appendix item 1). The grant awards were from partners ranging from the Federal Transit Administration to county transportation agencies. These grants funded a diversity of projects from core state of good repair investments to station modernization projects.

Due to the continued COVID pandemic and its impact on transit ridership and fare revenues, the Metropolitan Transportation Commission deferred the requirement for transit operators to develop a Short-Range Transit Plan and Capital Improvement Program (SRTP/CIP) to Fiscal Year 2023. BART plans to publish its SRTP/CIP in the Summer/Fall 2022.

BART FY19-33 Capital Investment Needs and Funding Sources (Billions)

Total capital need: \$22.4 Total funding identified: \$12.4 15-year capital funding gap: \$10

NOTE: All numbers are noted in billions.



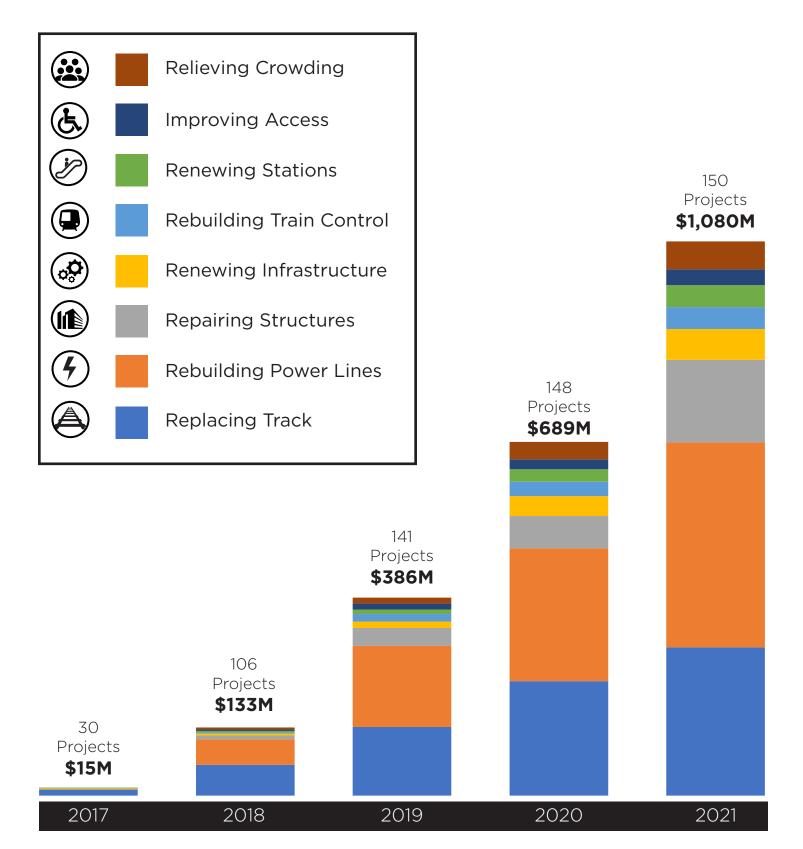
YEARLY PROGRAM EXPENDITURES

MEASURING COST EFFECTIVENESS

Ensuring the Measure RR rebuilding program is proceeding in a cost-effective manner is one of the mandates of the Bond Oversight Committee. Among the program management practices BART and the Oversight committee utilizes is an integrated method known as Earned Value Management (EVM). EVM is popular, well established, and objective measurement within government contracting and other sectors to evaluate the progress of individual projects and larger program categories.

In reviewing the cost effectiveness of RR funded work, the BART staff present to the oversight committee what work will be done, when will the work happen, and how much money and time will be required to reach completion. EVM simply allows someone to assess whether the value of work completed at a given point in time is worth the money spent at that point in time. By providing both a Cost Performance Index (CPI) as well as a Schedule Performance Index (SPI) EVM is also useful in project forecasting.

When BART staff analyze EVM results they are looking for trends which emerge over multiple quarters. Projects are considered on track when both the CPI and SPI consistently hover around 1.0. When a CPI or SPI rises above 1.2 or below 0.80 in a given reporting period, the program is given additional scrutiny to determine if there are any risks or issues. If there are develop a mitigation plan to either correct or hinder them from growing larger. It's normal for some projects to perform better than others at different times which makes looking at the overall programs so important for the longer term. The Oversight Committee receives regular EVM updates from BART staff and is advised if any issues are identified that require mitigation.





PUTTING PEOPLE TO WORK

Measure RR rebuilding projects are revitalizing BART's core infrastructure while supporting hundreds of professional jobs that are boosting the greater Bay Area economy. The Measure RR rebuilding program from April 2021 through March 2022 supported 611 Full Time Equivalent (FTE) jobs. These employees and contractors are working on projects throughout the BART District. Rebuilding projects were further bolstered through a process called load shedding. When BART reduced its service hours during the pandemic employees who had been in operations were instead shifted to capital projects. That load shedding ensured BART resources were being used in an efficient manner and helped the agency to avoid layoffs, which would have created long-term problems for BART as it resumed pre-pandemic service hours.

There are dozens of engineers working behind the scenes at BART to bring innovation and resiliency to a wide range of Measure RR rebuilding projects.



Mechanical engineer Sam Hoffman (left) is engineering a replacement of the water pipes at the Hayward Yard, BART's largest train yard that is located next to a new maintenance complex. These pipes and fire hydrants were installed in the late 1960s. For BART, a new water distribution system can be a game-changer. BART relies on a lot of water at the yards, mainly to wash the exterior and interior of train cars in service after a long day out in the system. It also needs water in case of fire emergencies.

Perhaps most importantly, Hoffman noted, the pipe replacements and upgrades need to be completed with minimal

impact to Yard and Mainline operations. The new pipes are constructed with polyvinyl chloride (PVC) which is durable and much less likely to crack and fail. "You hear, 'they don't make them like they used to', but that doesn't really apply to these pipes," said Hoffman. "The original pipes had a lifetime of 25-30 years and have served for 50. These PVC pipes should last 50 years at a minimum, and probably will last for 100 years, and should be easier to repair if needed. BART will be able to use these new pipes into the next century."

For most of BART's history, detecting broken equipment in the trackway always required a set of human eyes to detect and confirm. But if Wendy Wheeler and Jeff Martz (right) of Computer Systems Engineering can have it their way, this practice would soon be a thing of the outdated past.

Wheeler's team is leading the efforts of digital transformation, a systemwide effort to use data and machine learning to transform how BART manages its infrastructure. With more

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and more sensors and equipment with sensors feeding back data to its human operators, digital transformation aims to organize the data and communicate the data via dashboards.

"We're trying to move away from being preventative to more predictive maintenance with our infrastructure," said Wheeler. "We want to be smarter and quicker in responding to the devices before they experience issues or break down completely."

This effort is already helping the traction power department who manages all circuit breakers in the system. Computer Systems Engineering created a dashboard to monitor all circuit breakers which updates every few seconds.

SMALL BUSINESS OUTREACH

Small businesses are essential to the success of the Measure RR rebuilding program. Private contractors are providing valuable expertise for numerous projects including major track rebuilds, replacing power infrastructure, repairing tunnels, and renovating stations. Encouraging small businesses to bid on projects is a priority for BART's Office of Civil Rights (OCR). Those efforts include public outreach events and equity programs which aim to increase small business participation on BART contracts.

In 2021 OCR organized 38 outreach events which had an average audience of 25 participants. That included two dozen Small Business Support Services training and outreach events. OCR also provided opportunities for small contractors to meet project staff, business outreach committee meetings that included tips on how to do business with BART, and Northern California Procurement Technical Assistance Center matchmaking events.

Small businesses have been awarded 25% of all Measure RR contract dollars. BART's Office of Civil Rights administers a Non-Discrimination Program for Subcontracting on Non-Federally Funded Contracts to ensure prime contractors don't discriminate when subcontracting out work. Additionally, BART has a Small Business Program for non-federally funded contracts that provides bid preferences for qualified small businesses. The Small Business Program also includes small businesses that are Local Small Businesses, Disabled Veteran Business Enterprises, and Lesbian, Gay, Bisexual, and Transgender Business Enterprises.

OCR also operates the Small Business Support Services program, which offers help to contractors both while they bid on work and after they're awarded a contract. Dozens of support services are offered including estimating and bidding strategies; matchmaking and teaming introductions; presentation skills training; and aid in creating Site Specific Work Plans. All this help is provided by BART with no charge to the contractor.

The District's Small Business Supportive Services and outreach have been the critical reason why 1,099 RR contracts have been awarded to small businesses through the end of 2021. Those contracts have a value of \$247 million.

Committee Activities and Expenditures

As part of this report, the Bond Oversight Committee also presents a summary of its activities and expenditures.

June 18, 2021 - Regular Meeting

Committee member Leah Edwards announces her resignation. Remaining committee members say they wish to be reappointed. BART staff presents updated draft of '21 RR Annual Report. Vice Chair Catherine Newman says subcommittee wants to include more details on earned value in the next report and to be made aware of any audits of RR work. Committee member Sonja Stewart asks what's being done to share RR info with stakeholders. Committee member Daren Gee requests simple survey on what public thinks of the RR Annual Report. Committee unanimously approves RR Annual Report. Staff provides update on status of the overall RR Program. Committee member Marian Breitbart asks for better explanation of CPI in Earned Value Section of the update. Committee member Stewart asks staff to consider stoplight system for Earned Value Section. Committee approves schedule for future meetings.

September 17, 2021 - Regular Meeting

New committee members Vinit Shrawagi and Cindy Rosenthal are introduced. Committee Chair Michael McGill and Vice Chair Catherine Newman unanimously reappointed to those positions. Committee member Daren Gee unanimously appointed chair of Annual Report Subcommittee, committee member Shrawagi, and committee member Sonja Stewart unanimously appointed to the subcommittee. Stewart requests next annual report include information for stakeholders to stay engaged with RR and list ways to contact BART with questions and comments. Staff provides updates on overall status of RR program. Vice Chair Newman asks staff to provide info on how many open positions must be filled immediately versus vacant positions that don't need to be filled right away. Committee gets update on El Cerrito del Norte modernization project. Staff proposes creation of Earned Value Subcommittee. Gee, Stewart, and Rosenthal appointed to the subcommittee. McGill and Breitbart request update on how staff is estimating bids and dealing with rising construction costs.

January 12, 2022 - Regular Meeting

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Metting begins with a moment of silence to remember Manager of Engineering Programs Jamal Thompson. Committee members Sonja Stewart and Catherine Newman appointed to chair and vice chair respectively of Earned Value Subcommittee. BART staff presents outline for RR Annual Report and committee member Daren Gee provides positive feedback. BART staff provides RR Controls/Project Management update. Committee member Vinit Shrawagi requests both internal and external audits to committee. Committee member Cindy Rosenthal wants steps to be taken to address projects that fall outside of CPI/SPI goals added to Earned Value tables. Newman recommends staff create a slide or graphic that illustrates to the public how BART arrives at best decisions for riders and taxpayers. Newman presents Future Meeting Framework. Gee requests "look ahead" discussion at end of each meeting. Staff requests meetings that had been schedule for third Friday in December be moved to third Friday in January.

Committee Expenditures: As of this report, the committee has spent \$5,500 in Fiscal Year 2022 on the design and production of the RR Annual Report.

You are invited to participate in future Measure RR Bond Oversight Committee meetings. Those meetings are scheduled to happen on the third Fridays of March, June, September, and January.

The meetings are open to the public via videoconference during the pandemic and will be listed on the BART website at https://bart.legistar.com/Calendar.aspx.

Members of the public will be welcome to attend committee meetings in person once it's deemed safe to do so by health officials. The committee will also be publishing an annual report each year to inform the public of BART's progress and activities.

The public can view meeting minutes at www.bart.gov/bondoversight.

In Memorium



The Measure RR Bond Oversight Committee wishes to honor the memory of Jamal Thompson who passed away on Sunday, December 5, 2021. Jamal had been with BART since September of 2017, and he played a vital role in the success of the Measure RR rebuilding program.

Jamal had a fervent passion for planning, sustainability, and mentoring. His face would light up when helping others and his laugh was genuine and warm. He also loved cars and bicycles.

Starting as a Project Manager Jamal immersed himself in maintenance facing projects with Train Control and Traction Power. He learned their pain points and was determined to improve data analytics to help the maintenance teams better monitor component performance trends. He was instrumental in kicking off the project to map the DC negative return system.

After being promoted to Manager of Engineering Programs, his most recognizable contribution was that of the RR Program Manager. Jamal was responsible for coordinating with project teams to pull together,

validate, publish, and present the quarterly report to this committee. His knowledge of project management, and project controls along with his knowledge of the projects themselves, and his ability to communicate was foundational to the success of the RR program.

The contributions Jamal made as part of the Planning and Analytics team, though less obvious, are nonetheless significant. He was personally responsible for leading the development and implementation of the primary project controls tools used by BART project teams to track progress today. He took rudimentary spreadsheets, added his own vision, engaged a team, and elevated them into an innovative and comprehensive monitoring and reporting framework. To use terminology he might have, he took BART's processes from an AMC Pacer to a Maserati.

Jamal's mantra was, "make your own path and leave a trail". He was kind, patient, friendly and simply a good human being. Most of all he was loved, considered family, and will be sorely missed.

Helpful Links

Additional information about the Measure RR Rebuilding Program can be found on bart.gov. Here is a list of helpful links if you'd like to learn more about the details of Measure RR.

Previous Measure RR Annual Reports published by the Bond	2021 Annual Report www.bart.gov/sites/default/files/docs/BART%20Measure%20RR%20 June%2018_2021%20FINAL%20%20sp.pdf				
Oversight Committee	2020 Annual Report www.bart.gov/sites/default/files/docs/Measure%20RR%20Report%20 2020%20June%20Final.pdf				
	2019 Annual Report www.bart.gov/sites/default/files/docs/RR%20Report%20July%20 2019.pdf				
	2018 Annual Report www.bart.gov/sites/default/files/docs/BART_Measure_RR_ AReport_6_27_18_WEB.pdf				
Measure RR Stand	ding Rules and Original Documents				
Bond Oversight Committee Standing Rules	This document outlines the basics of how the Measure RR Bond Oversight Committee operates including length of committee member terms, how many meetings must occur each year, and rules to safeguard against conflicts of interest. www.bart.gov/sites/default/files/docs/Bond%20Oversight%20 Committee%20Standing%20Rules_Adopted%2012-18-2020%20.pdf				
Original Measure RR Bond Resolution	This is the document approved unanimously by the BART Board of Directors on June 9, 2016 that lead to Measure RR being placed on the November 2016 ballot in the BART District. www.bart.gov/sites/default/files/docs/Bond%20resolution.pdf				
2016 Treasurer's Tax Rate Statement	The statement from BART's Treasurer was issued in compliance with the state election code ahead of the November 2016 vote and offers best estimates of the highest tax rate which would be required to be levied to fund the bond issue, the total debt service and more. www.bart.gov/sites/default/files/docs/2016%20Tax%20Rate%20 Statement%20SIGNED.pdf				
2016 Measure RR Fact Sheet	Includes details put before District voters in advance of the 2016 election including how the bond would work, how much property owners could expect to pay, and a financing schedule for Measure RR. www.bart.gov/sites/default/files/docs/BART%20%243%205%20 Billion%20G0%20Bond%20Measure%20Tax%20Analysis%20 %284%25%20AV%20Growth%20Assumption%29%20Summary%20 FINAL%20WEBSITE%20POSTING%208%2019%2016.pdf				
Green Bond Back	ground				
Green Bonds	BART provides updated information on its climate-certified green bonds including preliminary offering statements and credit reports at www.bart.gov/greenbonds.				

Appendix

Appendix 1: List of capital grants awarded to BART in 2021 through the use of Measure RR matching funds.

Grant/Funding Program	Awarding Entity	Gov't. Level	Amount
FY21 FTA Sections 5307/5337 Formula Programs	FTA	Federal	\$188,764,022
American Rescue Plan Supplemental CIG Funds	FTA	Federal	\$87,075,134
Transit Security Grant Program	FEMA	Federal	\$4,512,704
FTA Pilot Program for Transit Oriented Development	FTA	Federal	\$350,000
Alameda County Measure BB	Alameda CTC	Local	\$15,000,000
Quick Strike Program (OBAG)	SFCTA	Local	\$3,144,302
San Francisco Proposition K	SFCTA	Local	\$950,000
State of Good Repair (STA - Formulaic)	Caltrans	State	\$6,471,025
Local Partnership Program - Formulaic	Caltrans	State	\$845,000
California Community Power Resiliency Allocation	CAL OES	State	\$300,000
Transit Center District Impact Fees	City/County SF	Local	\$1,250,000
Low-Carbon Transit Operations Program (LCTOP)	Caltrans	State	\$4,368,203
Mobility Pilot HUB	MTC	Regional	\$750,000

Keep up with Measure RR

The independent Bond Oversight Committee encourages you to stay updated on Measure RR and share comments or questions about BART's rebuilding efforts. Community engagement and feedback from stakeholders is essential to the success of the Measure RR program.

Follow and comment via social media:



Facebook @bartsf



Instagram @sfbayarearapidtransit



Twitter: @sfbart



Email BART directly: BetterBART@bart.gov

Attend a public meeting and email comments to the oversight committee:

Details on upcoming Bond Oversight Committee meetings can be found at **www.bart.gov/bondoversight.** Meetings are open to the public via videoconference during the pandemic. You may also email public comments that will be entered into the public record. List "public comment" as the subject line and email ljohnson@bart.gov.

