

MONTHLY MONITORING REPORT

## **Transbay Downtown Rail Extension Project, Phase 2**

Transbay Joint Powers Authority (TJPA)

San Francisco, CA

March 2024

**Final**

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75 E. Santa Clara Street  
San Jose, CA 95113  
408.606.9515

Edwin J. Williamson, PE, 917-715-8651, [ejwilliamson@urbanengineers.com](mailto:ejwilliamson@urbanengineers.com)

Length of time Assigned: 18 Months (October 2022 through March 2024)

## Table of Contents

<b>1.0 EXECUTIVE SUMMARY .....</b>	<b>iv</b>
1.1 Project Description .....	iv
1.2 Project Status.....	iv
1.3 Major Issues and/or Concerns .....	v
<b>2.0 OBSERVATIONS AND FINDINGS.....</b>	<b>1</b>
2.1 Summary of Monitoring Activities .....	1
2.2 Oversight Triggers.....	2
2.3 Project Management Plan (PMP) and Sub-Plans.....	2
2.4 Management Capacity and Capability .....	3
2.5 NEPA Process and Environmental Mitigation.....	4
2.6 Project Delivery Method and Procurement.....	5
2.7 Design.....	6
2.8 Value Engineering and Constructability Reviews .....	8
2.9 Real Estate Acquisition and Relocation .....	8
2.10 Third-Party Agreements and Utilities .....	10
2.11 Construction .....	15
2.12 Vehicle Technology and Procurement .....	15
2.13 Project Cost .....	15
2.14 Project Schedule .....	17
2.15 Project Risk .....	19
2.16 Quality Assurance/Quality Control.....	20
2.17 Safety and Security.....	20
2.18 Americans with Disabilities Act (ADA) .....	20
2.19 Buy America .....	20
2.20 Start-Up, Commissioning, Testing.....	21
2.21 Before-and-After Study Reporting.....	21
2.22 Lessons Learned .....	21
2.23 Actions Items Table .....	21
<b>3.0 PROJECT MONITORING REPORT ATTACHMENTS .....</b>	<b>22</b>
Attachment A: List of Acronyms .....	23
Attachment B: Safety and Security Checklist.....	25

Attachment C: Top Project Risks..... 26

Attachment D: Awarded Contracts ..... 27

Attachment E: Rolling Stock Vehicle Status Report ..... 28

Attachment F: Project Milestones/Key Events ..... 29

Attachment G: Roadmap to Revenue Operations ..... 30

Attachment H: Project Map..... 31

# 1.0 EXECUTIVE SUMMARY

## 1.1 Project Description

Transbay Joint Powers Authority (TJPA), the Project Sponsor, proposes to extend the Caltrain commuter rail line 2.2 miles from the China Basin/South Park neighborhood near the current Caltrain terminus at Fourth and King Streets to the multi-modal Salesforce Transit Center in downtown San Francisco. The Project's proposed Fourth and Townsend Street station is near Oracle Park, the home of the San Francisco Giants baseball team. The TJPA believes that the project, known as the Transbay Downtown Rail Extension Project, Phase 2 (Transbay DTX), will improve public access to bus and rail service and accommodate projected growth in travel demand in the San Jose–San Francisco corridor. The proposed Project will connect Caltrain's regional rail system to the Salesforce Transit Center in downtown San Francisco, along with the future California High-Speed Rail Authority's statewide rail system.

## 1.2 Project Status

The Locally Preferred Alternative (LPA) was completed in March 2003, and the National Environmental Policy Act (NEPA) action was completed in February 2005 with a Record of Decision (ROD). The Federal Transit Administration (FTA) amended the ROD in July 2019, and the LPA was adopted into the region's fiscally constrained long range transportation plan in October 2021.

On February 17, 2023, the TJPA Executive Director formally submitted TJPA's requests to the FTA for approval to Enter Engineering and to conduct the New Starts Project Rating. On March 8, 2023, TJPA provided the FTA with additional documents required to conduct the Project Rating under the FTA Capital Investment Grants (CIG) New Starts Program. On August 14, 2023, TJPA submitted updated documentation and a revised rating package to the FTA in support of their request to enter New Starts Engineering. *The Project expects to enter the Engineering Phase in 2Q-2024, receive a Full Funding Grant Agreement (FFGA) in 2025 and initiate revenue service in 2032.*

Based on the TJPA finalized project scope, New Starts Standard Cost Categories (SCC) Workbook and project schedule provided during and following the FTA/PMOC risk workshop in May 2023, the Project Management Oversight Contractor (PMOC) updated its scope, cost, and schedule analyses and re-performed the schedule and cost risk models. After review and concurrence by the FTA, the revised results, which indicated an estimated project cost of \$8,255 million and an FFGA Revenue Service Date of June 27, 2035 (including both cost and schedule contingency) were shared with TJPA, and the combined Scope, Cost, Schedule, Risk and Contingency Review Report was finalized and issued on August 31, 2023.

The detailed results of the readiness review for Entry to Engineering were documented in the PMOC's OP51 Readiness Review Report (Programmatic) issued on October 17, 2023. Based upon PMOC review of the documentation prepared and submitted by TJPA, it is the PMOC's opinion that TJPA has adequately demonstrated substantial compliance with all the OP51 technical requirements at Entry to Engineering. TJPA's request for Entry to Engineering continues in FTA

Review. During February 2024, the FTA's Office of Planning and Environment (TPE) advised TJPA that Transbay DTX received an off-cycle Project Rating of Medium-High.

*Through March 31, 2024, TJPA continued work advancing progress in the areas of support to the CIG process, risk management and program funding as well as work on the Right-of-Way property acquisitions, temporary and permanent easements, and critical third-party agreements. TJPA continued engagement with the other 5 project agency partners, including Caltrain and the California High Speed Rail Authority (CHSRA), to prepare the revised San Francisco Peninsula Rail Program (Stakeholder) MOU, now scheduled to be approved during 2Q-2024. TJPA continued to advance design work on the three Advance (Enabling) Works Program projects for utility relocations, work in the Caltrain railyard (Package A and Package B) and the building demolition work. TJPA continued working on the Railyard Agreement with Caltrain for the Transbay DTX work in the existing rail yard at 4<sup>th</sup> and King Streets and will be dividing the work into two packages to reduce schedule risk. Caltrain, the operator for the Downtown Rail Extension, continues its environmental review process for state and federal agencies in advance of the rail yard work. TJPA continued its procurement of the Program Management/Construction Management (PM/CM) contract, now in the final review phase, for anticipated Board action in April 2024 and award in 2Q-2024. TJPA also continued preparation for procurement of the Civil and Tunnel Progressive Design-Build (PDB) contract for anticipated award in 2025. TJPA provided the revised summary third-party agreement matrix and continued providing the agreement documents for the PMOC's review.*

### **1.3 Major Issues and/or Concerns**

The PMOC has identified two significant concerns:

- The Transbay DTX Project was not selected for either the FRA CRISI Grant or Federal/State Partnership Grant awards during 2023, or for the National Infrastructure Project Assistance (Mega) Grant representing a total of \$241 million in federal funding that was anticipated but not received. *TJPA will likely re-apply for these three grants during 2024. See Section 2.13, Project Cost, for further details.*
- *The December 2023 Master Schedule update showed a schedule contingency drawdown of 177 work days (WD) from 643 WD to 466 WD. This delay was primarily due to the significant additional time required for the multiple utility agencies' coordination and decision making which led to a change of scope and concept of the utility relocations under the Advance (Enabling) Works Program. The February 2024 Master Schedule update showed an additional drawdown of 9 WD of schedule contingency from 466 WD to 457 WD caused by delays in the Progressive Design-Build contract procurement. See Section 2.14, Project Schedule, for further details.*

### **1.4 Status of Key Indicators Dashboard (Post Grant)**

The Key Indicators Dashboard will be completed upon award of the Full Funding Grant Agreement and then updated monthly thereafter.

## 1.5 Core Accountability Items

Core Accountability Items				
		Original (Grant)	Current Forecast** (Million \$)	PMOC Assessment of Current Forecast
Cost	Capital Cost Estimate	(Note 1)	8,255	Acceptable
Contingency	Unallocated Contingency	(Note 1)	1,251	Acceptable
	Allocated Contingency	(Note 1)	867	Acceptable
	Total Contingency	(Note 1)	2,118	Acceptable
Schedule	Planned Revenue Service Date FFGA RSD w/contingency	(Note 1)	Sep. 30, 2032 Jun. 27, 2035	Acceptable
Note 1: FFGA anticipated in 2025.				
Project Progress:		Amount (\$M)		Percent of Total
Total Expenditures	Actual cost of all eligible expenditures completed to date	(Note 2)		(Note 2)
Planned Value to Date	Estimated value of all work planned to date	(Note 2)		(Note 2)
Actual Value to Date	Actual value of all work completed to date	(Note 2)		(Note 2)
Note 2: Project Sponsor is compiling costs/value to date.				
Contract Status:		Amount (\$)		Percent
Total Contracts Awarded	Value of all contracts (design, support, construction, equipment) awarded; % of total value to be awarded	(Note 2)		(Note 2)
Construction Contracts Awarded	Value of construction contracts awarded; % of total construction value to be awarded	(Note 3)		(Note 3)
Physical Construction Completed	Value of physical construction (infrastructure) completed; % of total construction value completed	(Note 3)		(Note 3)
Note 3: Construction start anticipated in early 4Q-2025 for utility relocation work under the Advance (Enabling) Works Program. No construction contracts have been awarded to date.				
Rolling Stock Vehicle	Date Awarded	No. Ordered	No. Delivered	

<b>Status</b>				
<i>(There are no direct TJPA procurements of revenue service vehicles included in the project scope of work)*</i>		N/A	N/A	N/A
<b>Major Issues</b>	<b>Date Identified</b>	<b>Status</b>	<b>Project Sponsor Action</b>	<b>PMOC Recommendation</b>
N/A	N/A	N/A	N/A	N/A
<b>Date of Next Quarterly Meeting (if known):</b>			<i>Next Monthly Meeting is on April 17, 2024.</i>	

\*Project scope includes cost for Caltrain procurement of five non-revenue Maintenance of Way vehicles, the level-boarding door modifications to the 23 new EMU revenue vehicles from Caltrain under their current procurement and the existing Salesforce Transit Center train box completed under the Transbay DTX Phase 1 Program. Refer to report Section 2.12 for details.

\*\*As of March 31, 2024. Final cost estimates and contingency have been reconciled with the adjusted SCC Workbook based on the final adjustments from the revised FTA Risk Assessment. Current Cost Forecast includes financing costs.

## 2.0 OBSERVATIONS AND FINDINGS

### 2.1 Summary of Monitoring Activities

*This report covers the period from March 1, 2024 through March 31, 2024.*

PMOC monitoring included the following activities:

- *Prepared draft PMOC Monthly Monitoring Report for February 2024 and finalized report after FTA's review and the TJPA "fact check" review.*
- *Continued review of updated Sponsor-provided presentations on Transbay DTX that included details of the program status, current initiatives, and schedule of major milestones for advancing program funding, the Advance (Enabling) Works Program contracts, third-party agreements and property acquisitions along the planned project alignment, along with the current cost, schedule and risk/contingency status and procurement of the Program Management/Construction Management (PM/CM) and Progressive Design-Build (PDB) contracts.*
- *Reviewed the January 2024 Master Schedule update and narrative.*
- *Continued work on the OP39 Review of Third-Party Agreements.*
- *Prepared agenda for the FTA/PMOC Monthly Monitoring Meeting with Sponsor on March 20, 2024 and co-directed the meeting with the FTA; focus included funding shortfalls and use of significant schedule contingency.*
- *Together with the FTA, held the Real Estate Acquisition Kick-off Meeting with TJPA on March 19, 2024.*
- *Participated in a meeting to provide feedback on TJPA's Q3-2023 Quantitative Risk Assessment (QRA) report on March 8, 2024.*
- *Attended FTA Monthly CIG check-in meeting on March 21, 2024.*
- *Attended Sponsor program management and technical meetings:*
  - *Integrated Project Management Team semimonthly meeting (March 5, 2024).*

The detailed results of the PMOC readiness review are documented in the PMOC's final OP51 Readiness Review Report issued on October 17, 2023 under the PMOC's Project Programmatic Task Order. Based upon PMOC review of the documentation prepared and submitted by TJPA, it is the PMOC's opinion that TJPA has adequately demonstrated substantial compliance with all of the OP51 technical requirements at Entry to Engineering. TJPA's request for Entry to Engineering continues in FTA Review. During February 2024, TPM advised that Transbay DTX received an off-cycle Project Rating of Medium-High.

Going forward, the PMOC will monitor the Sponsor's progress updating the Program Management Plan, along with other subplans, based on the PMOC's reviews and recommendations and in accordance with the specific time frames directed by the FTA. All plan updates are to be completed prior to TJPA's application for the FFGA in accordance with the PMOC review comments provided to TJPA in conjunction with the Entry to Engineering reviews.



## **2.2 Oversight Triggers**

The PMOC will perform monthly oversight of the project and continue through the Engineering Phase to award of the Full Funding Grant Agreement in accordance with direction from the FTA.

## **2.3 Project Management Plan (PMP) and Sub-Plans**

### **Project Management Plan (PMP)**

The PMOC completed the Final OP20 Review Report and submitted the report to the FTA, and the FTA subsequently transmitted the PMOC OP20 Review Report to TJPA on September 22, 2023. The PMOC determined that while the DTX PMP Revision 1 significantly meets the requirements for a project of the size and complexity of DTX at the Entry to Engineering stage of development, there are items that should be addressed in the near future. Accordingly, TJPA was requested to revise and resubmit the PMP within the next six months or prior to the start of construction, including construction under the pre-FFGA Advanced (Enabling) Works scope, whichever occurs first.

### **Safety and Security Management Plan (SSMP)**

The PMOC submitted the Final OP22 Review Report to the FTA on September 8, 2023 and the FTA subsequently transmitted the PMOC OP22 Review Report to TJPA. The PMOC determined that the Final Draft SSMP meets the requirements of OP22 and FTA Circular 5800.1 at Entry to Engineering, except for several elements related to the later phases of project advancement. As a result, TJPA was requested to revise and resubmit the SSMP in the next update of the SSMP, prior to TJPA's request to execute the Full Funding Grant Agreement. The PMOC also expects that in the future as contractors are added to the project implementation team, their safety and security plans will be incorporated under TJPA's program, and their plans will also be reviewed by FTA/PMOC once they are approved by TJPA.

### **Real Estate Acquisition and Management Plan (RAMP)**

The PMOC completed its review of the Transbay DTX Draft RAMP Revision D, dated October 2022 and the TJPA's Relocation Assistance Program Summary in accordance with OP23, Real Estate Acquisition and Management Plan Review, dated September 2015, for a project requesting Entry to Engineering. The review found the RAMP to be in partial compliance with OP23, with comments in the areas of acquisition and relocation processes, real estate team organization, document control, property management, and property disposition. TJPA completed the PMOC recommended revisions for both the RAMP and the Relocation Assistance Program Summary and resubmitted them on September 1, 2023. The PMOC reviewed the revised documents and determined that both meet the OP23 requirements for a project at Entry to Engineering.

### **Quality Assurance Plan (QAP)**

The PMOC completed its review of the TJPA Quality Assurance Program documents in accordance with OP24, Quality Assurance – Quality Control Review, dated September 2015, and completed the final OP24 report in August 2023. The PMOC found the information provided in the TJPA documents for its Quality Assurance/Quality Control Program meets the requirements

of OP24 for a project of the size and complexity of the Transbay DTX Project at its current stage of development at Entry to Engineering. However, there are several areas noted in the PMOC OP24 report that require further development as the project advances into later phases. The FTA transmitted the PMOC OP24 Review Report to TJPA on August 17, 2023, and requested that TJPA revise and resubmit the QA/QC Program documents prior to application for the project FFGA. The PMOC also expects that in the future as contractors are added to the project implementation team, their quality plans will be incorporated under TJPA's program, and their plans will also be reviewed by FTA/PMOC once they are approved by TJPA.

### **Rail Fleet Management Plan (RFMP)**

The PMOC analysis found that the combination of documents submitted by Caltrain and TJPA [Caltrain Fleet Management Plan, Revision 3, dated December 7, 2021; TJPA supplemental memo, "Fleet Management Plan Tech Memo to Validate 4 TPH Service" by DB E.C.O North America, Inc., dated April 2023] meets the technical requirements of OP37 at this stage of project advancement and are acceptable for Entry to Engineering. The PMOC's review noted several areas within the documents where revisions are highly recommended and requested resubmittal prior to application for the FFGA. Results have been shared with the Sponsor and have been formally documented in the separate OP51 report.

### **Risk and Contingency Management Plan (RCMP)**

The PMOC reviewed the RCMP, Revision 0, dated October 27, 2021 in accordance with FTA OP40, "Risk and Contingency Review," dated March 2022, and results were provided to TJPA within the draft combined Scope, Cost, Schedule, Risk and Contingency Review report. TJPA and the PMOC collaborated on the comments and recommendations, especially to define the project's "contingency drawdown curves," and TJPA commenced a revision to the RCMP for resubmittal. TJPA submitted the RCMP on August 1, 2023, incorporating the comments from the draft combined Scope, Cost, Schedule, Risk and Contingency Review report. PMOC confirmed that the resubmittal satisfied all comments with the exception of the contingency draw down curves. TJPA subsequently revised the RCMP and submitted Revision 2, dated September 2023, on September 1, 2023. The PMOC completed a review of the RCMP Revision 2, and found that it meets the requirements of OP40, including addressing the one remaining draw down curve comment.

## **2.4 Management Capacity and Capability (MCC)**

### **PMOC OP21 Management Capacity and Capability Review**

The PMOC OP21 Review Report was completed and submitted to the FTA, finding that TJPA is a well-developed organization for the current stage of the DTX Project. Based upon PMOC review of the documentation prepared and submitted by TJPA, it is the PMOC's opinion that TJPA has demonstrated technical compliance with all Management Capacity and Capability requirements for this stage of the project to advance into the Engineering Phase. The FTA forwarded the report to TJPA on October 5, 2023 and requested that TJPA revise and resubmit the associated MCC documents, including the PMP, prior to the start of construction, including construction under the pre-FFGA Advanced (Enabling) Works scope, but no later than the start of the FFGA application process.

## Procurement of Program Management / Construction Management Services Contract

TJPA currently retains a Program Management / Project Controls (PMPC) consultant that was engaged at the initiation of the Project Development phase approximately two years ago. As the Project advances into the Engineering phase and initiates the procurement of the Civil and Tunnel Progressive Design-Build contract and the CMGC contracts for the station fit-out and rail systems scope of work, TJPA will replace the PMPC consultant with the PMCM consultant during 2024.

During early 2023, TJPA developed the procurement documents for the PMCM contract and the RFP was issued on June 26, 2023. Proposals were submitted on September 22, 2023 and interviews were held during the week of October 23, 2023. Three proposers were evaluated as qualified for providing the required PMCM services. TJPA sent notices of intent to negotiate to all three PMCM proposers on November 1, 2023 and held the initial negotiation kick-off meeting with the top ranked bidder on November 8, 2023. *Negotiations with the top ranked firm were completed in March 2024. TJPA procurement is completing its final review and preparing the Notice of Intent to Award for TJPA Board action in April 2024.*

## **2.5 NEPA / CEQA Process and Environmental Mitigation**

### National Environmental Policy Act

The project received a Record of Decision (ROD) from the FTA for the Transbay Terminal / Caltrain Downtown Extension / Redevelopment in 2005, a ROD from the Federal Railroad Administration (FRA) for the Transbay Transit Center Train Box in 2010, and an amended ROD from FTA for the Transbay Terminal / Caltrain Downtown Extension / Redevelopment in 2019. Prior to the completion of the current Project Development (PD) phase, the project had sought FTA NEPA clearance related to several subsequent modifications of the project's footprint. Final FTA approval of the NEPA re-evaluation was received on June 9, 2023. *There are currently no open NEPA action items as of March 31, 2024.*

The PMOC OP32B Review Report has been completed and submitted to the FTA. The report found that TJPA's documentation is in general conformance with the FTA requirements for a project of this size and complexity and at its current state of development moving from Planning to the start of Engineering, with several noted exceptions. The FTA forwarded the report to TJPA on September 1, 2023, and requested that TJPA revise and resubmit the preliminary engineering documentation as recommended in the PMOC Report on the NEPA and Design Document Comparison Review within 60 calendar days. TJPA provided their responses to the 13 PMOC review comments on November 28, 2023. The PMOC responded on December 13, 2023 as follows: PMOC had no further comments on six TJPA responses; PMOC provided suggested actions on seven TJPA responses. *On February 1, 2024, TJPA provided responses to the seven PMOC suggestions. TJPA plans to implement the PMOC's suggestions in the upcoming quarterly (4Q-2023 and 2024) reports and the annual environmental compliance monitoring report in 2024. The PMOC took no exceptions to the TJPA responses and closed out the seven comments.*

The fourth quarter 2023 Quarterly Mitigation Monitoring Report (MMRQ) was provided on January 31, 2024.

## California Environmental Quality Act

Caltrain has started its environmental review process in advance of the 4<sup>th</sup> and King Yard Preparation Package that is part of the Advance (Enabling) Work Program. The first part of the review involves the California Environmental Quality Act (CEQA) Notice of Determination process that will fulfill Caltrain's CEQA requirement regarding the future DTX construction work planned within Caltrain's Right-of-Way (ROW) and constitutes a "Discretionary Action." The second part of the review is for the Caltrain Peninsula Corridor Electrification Project (PCEP) NEPA compliance, focused primarily on potential impacts to the PCEP infrastructure due to the TJPA DTX work within Caltrain's ROW and, more specifically, for the 4<sup>th</sup> and King Yard (4KY) Preparation work scope in Package 4KYB. *Caltrain has retained an outside consultant to complete the two parts of the review and to determine the documentation requirements. Caltrain expects to file the Notice of Determination in the May-June 2024 timeframe, a 4-6 week delay needed to finalize the notice based on additional technical information provided by Caltrain to their consultant in January 2024.*

## **2.6 Project Delivery Method and Procurement**

The Sponsor plans to construct the project using three project delivery methods.

TJPA Board-approved delivery approach consists of:

- Design-Bid-Build (DBB) for Advanced Packages Program (Early Action contracts) for Utilities and Railyard Infrastructure Relocation, and Site demolition.
- Progressive Design-Build (PDB) for main civil and tunnel
- Construction Manager-General Contractor (CMGC) for track and rail systems, and for station fit-out.

The PMOC previously noted that the proposed approach using three different project delivery methods will require a high level of both design and construction interface coordination and management. To reduce delay risk, TJPA will divide the Railyard Infrastructure Relocation Work scope into two packages: 4KYA will remain Design/Bid/Build for site clearing; 4KYB will change to CMGC for the actual rail infrastructure and systems relocation. Caltrain has agreed to the creation of the two packages and the procurement/delivery approach: TJPA will procure and deliver 4KYA; Caltrain will procure and deliver 4KYB. Both the TJPA and Caltrain boards approved the package divisions and CMGC delivery method for 4KYB in, respectively, November and December 2023. *The division of work scope will be performed at the completion of the 30% Design 4KY package, previously anticipated by March 31, 2024, now expected in April 2024.*

Because the Advanced (Enabling) Works Program had previously been forecast to start during Q2-2024, prior to award of the FFGA that is targeted for 2025, TJPA had earlier acknowledged the possible need for development of the basis for a Letter of No Prejudice (LONP) to qualify the costs of the Enabling Works Program for those elements not otherwise covered under pre-award authority in accordance with the FFGA. *At this time, however, there is no apparent need for a LONP based on the current project plan and schedule that now forecasts the start of the first contract under the Advance (Enabling) Works Program, 4KYA Site Clearing, in early Q3-2025 under the pre-award authority anticipated to be granted with the FTA approval for Entry to Engineering.*

## Progressive Design-Build Contract

TJPA has selected the Progressive Design-Build (PDB) delivery method for the civil and tunnel scope of work and is currently advancing the procurement of this contract.

Key milestones achieved (A) and planned include the following:

- Informational Session - September 20, 2023 (A)
- Issue Request for Qualifications - October 27, 2023 (A)
- Industry briefing - November 2, 2023 (A)
- Last date for requests for clarification - January 10, 2024 (A)
- Last date for issuance of Addenda - January 17, 2024 (A)
- Four Statements of Qualifications received - January 31, 2024 (A)
- *Notification of the three short-listed Respondents - March 2024 (A)*
- Issue Draft Contract to short-listed Respondents - April 2024
- Discussions with short-listed Respondents – Spring/Summer 2024
- Issue Request for Proposals – Winter 2024/2025

## **2.7 Design**

As part of the FTA/PMOC-led OP40 Risk Assessment and to support the PMOC's OP51 review of the project's readiness to enter the Engineering phase, the PMOC completed its review of the project scope in accordance with OP32C, Project Scope Review, dated September 2015. Based on TJPA's finalization of the project scope in July 2023, the PMOC updated and finalized its OP32C Scope Review during August 2023. The scope review results are detailed in the Final OP32C, 33, 34, 40 Scope, Cost, Schedule, Risk and Contingency Review Report that was submitted to the FTA on August 31, 2023.

The PMOC had previously noted that the as-built PCEP facilities will present conflicts with the planned Transbay DTX work involving or affecting the Caltrain rail yard and rail system infrastructure from the project limits to the existing Caltrain terminal at 4<sup>th</sup> and King Streets. This will require TJPA to relocate some Overhead Contact System (OCS) support structures as well as some wayside signal/train control equipment and associated cabling. This additional work scope will need to be performed during overnight track outages and on weekends and will require close coordination with Caltrain operations and force account resources. As such, this development has created a significant new risk with potentially high cost and schedule impacts. *The scope of work for relocation of selected PCEP facilities required to resolve conflicts with planned DTX work scope is included in the 4<sup>th</sup> and King Yard Preparation Package B for at-grade track and systems work and is 30% Design package is currently nearing completion.* Package B was removed from the Advance (Enabling) Work packages in January 2024 and will be procured by Caltrain using the CMGC project delivery method.

*March 2024 Sponsor updates included:*

- Advance (Enabling) Works Program Status
  - Utility Relocation
    - *90% Design work continues; the Dec. 31, 2023 forecast completion was not met; revised forecast is late May 2024.*
    - Working with the GEC, TJPA has completed the schedule update and there will be an approximate 5-month delay to completion and acceptance of the 90% Design.
    - TJPA directed GEC to delay 90% submission to allow for key decisions by agencies; all stakeholders will receive the 90% Design package at the end of May 2024.
    - *TJPA is incorporating new SFMTA requirements for slot trench permitting process.*
  - DTX 4<sup>th</sup> and King Yard Preparation Packages (4KY)
    - Three standing TJPA weekly meetings with Caltrain, PMPC and GEC.
    - Final 4KYB Delivery/Contracting Authority Analysis Report has been completed and submitted; the Report and its recommendations were approved by the TJPA Board on December 14, 2023 and the Caltrain Board on December 7, 2023.
    - *Additional utilities/civil site walk will be scheduled if needed by GEC based on Caltrain response to GEC utility information request; ; Asset inventories are updated in the Basis of Design based on site inspections.*
    - To reduce delay risk, TJPA is dividing the Yard Preparation Package into Package A (4KYA) for site clearing along the 4th and King Yard north and east project limits and Package B (4KYB) for at grade track and systems work along the 4th and King Yard south and west project limits. *Division of the final 30% Design into Packages A and B is expected in April 2024.*
      - Caltrain has approved TJPA's proposed plan
      - TJPA and Caltrain are working with the GEC on updating the Master Schedule to include the 4KYB CMGC procurement
      - Agreement reached to move the 4KYB Contract out of the Advance (Enabling) Work Program.
    - In accordance with TJPA's agreement with Caltrain, the 4KY construction will not start until after award of the FFGA.
    - *Draft 30% Design Plans and Basis of Design and Cost Estimate have been accepted; cost estimates for the final 30% 4KYA and 4KYB packages are now expected in May 2024.*
    - Interim Agreement with Caltrain allows for continuing the 4KYA Package design with the GEC.

- *Building Demolition Package*
  - Draft 30% Design package and Basis of Design have been completed and accepted.
  - *60% Design package was completed in February 2024 and is under review; associated cost estimate is anticipated in April 2024.*
  - *60% Design package was sent to San Francisco Department of Building Inspection (SFDBI) for a high-level review; SFDBI will complete its full review at completion and acceptance of the 90% Design.*
  - San Francisco MTA will review the traffic/pedestrian protection provisions in the Plans and Specifications.
- Progressive Design-Build Contract
  - TJPA has selected the Progressive Design-Build delivery method for the civil and tunnel scope of work.
  - PDB contractor will advance the TJPA 30% design during the pre-construction services period at the start of the contract.
  - Refer to Section 2.6 of this report for details of the PDB contract procurement.

## **2.8 Value Engineering and Constructability Reviews**

The Sponsor has conducted several Value Engineering and Constructability Reviews. The corresponding reports provided to the PMOC were used for the PMOC's OP32C Project Scope Review during 2023.

## **2.9 Real Estate Acquisition and Relocation**

The Sponsor has completed the Draft Real Estate Acquisition and Management Plan (RAMP). Refer to the Project Management Plan and Subplans section of this report for the status of the RAMP.

*March 2024 Sponsor updates included:*

- Status of property acquisitions and easements
  - Five total acquisitions, funded through Regional Measure 3 MTC allocation, for FY2023-2024; this represents a second reduction to the 11 acquisitions forecast in September 2023 based on being conservative with the pilot appraisals due to valuation uncertainty; process started in December 2023 (delay of one month from November 2023 forecast date); TJPA notes schedule revised due to earlier pause in advancing Relocation Plan; *TJPA to provide to the FTA in April 2024 up to five appraisals and reviews for FTA review and approval.*
  - *Four Environmental Site Assessments (ESA) have been completed with no significant findings; the fifth ESA is under review.*
  - The subsequent Regional Measure 3 MTC allocations will be used for partial acquisitions and two additional full acquisitions.

- Acquisition of 14 subsurface easements, the temporary construction easements and the seven rock-dowel easements is forecast to commence in the first half of FY2024-2025 as available funding allows.
- Approximately 28 potential displacees have been identified.
- TJPA previously noted that schedule revisions reported are based on updated anticipated regional funding flow for acquisitions and relocations.
- Pre-acquisition work for Caltrans-owned property at 2<sup>nd</sup> and Harrison Streets (SE corner) required for DTX tunnel ventilation building.
  - Multi-agency agreement required for the total acquisition process.
  - Phase I Environmental Site Assessment completed.
  - An ALTA/NSPS Land Title Survey was completed meeting the strict standards developed by the American Land Title Association (ALTA) and the National Society of Professional Surveyors (NSPS).
  - Cooperative Agreement signed earlier; transactional documents in development; closing had been anticipated in January 2024 but was not achieved; new forecast is mid-2024 with no schedule impacts due to the delay.
- DTX Underpinning Work on Three Existing Structures
  - Detailed review of noise and vibration impacts is required prior to work on the critical property at 235 2<sup>nd</sup> Street.
    - The TJPA Executive is in contact with the property owner.
    - TJPA was granted access to the property.
    - Background noise and vibration readings were collected.
    - Remote noise and vibration simulation of the EMU vehicle was completed.
    - Remote simulation results validated by noise and vibration measurements taken under actual operating conditions using EMU vehicles at operating speed on the completed southern part (Mountain View area) of the Peninsula Corridor Electrification Project.
    - GEC is managing the site investigations/studies:
      - Building noise/vibration propagation model is completed.
      - GEC has completed the mitigations plan.
      - GEC is preparing the draft report; final draft report had been anticipated by late January 2024 but is now forecast for May 2024 a 4-month delay.
      - The Final draft report is forecast to be provided to the building owner for review by mid-June 2024.
      - Noise and vibration model and mitigation plan are under review by project partner agencies – Caltrain and City/County of San Francisco.
      - *TJPA completed the initial peer review; an omission in the analysis was identified; additional time was required to re-perform a portion of the analysis and revise the draft report; additionally, modelling software verification is taking longer than expected; final peer review anticipated to start by mid-April 2024 and owner review in June 2024.*



## 2.10 Third-Party Agreements and Utilities

The project requires multiple third-party agreements and the temporary and permanent relocation of a large number of existing utilities. The PMOC continues to review the updated presentation material provided by the Sponsor and will continue in-depth reviews of specific project documents as they are made available.

*March 2024 Sponsor updates included:*

- San Francisco Peninsula Rail Program MOU
  - The MOU was executed on June 5, 2020.
  - Agency Partners include:
    - Transbay Joint Powers Authority (TJPA)
    - Metropolitan Transportation Commission (MTC)
    - San Francisco Municipal Transportation Authority (SFMTA)
    - Peninsula Corridor Joint Powers Board – Caltrain (PCJPB)
    - California High Speed Rail Authority (CHSRA)
    - City and County of San Francisco (CCSF)
  - The MOU partners recognize that the Transbay DTX project is a critical link in the Bay Area, mega-region, and state transportation system. The partners believe that the Transbay DTX can be more efficiently and effectively developed through a multi-agency partnership among local, regional and state stakeholder agencies with expertise in developing, funding and implementing major transportation infrastructure projects.
  - The MOU had a 3-year term to June 5, 2023 and has been extended twice to May 2024.
  - *The 6 agency project partners continued work on the successor MOU that will effectively and efficiently support the Transbay DTX project as it advances from the Project Development phase to the Engineering phase during 2024.*
- City and County of San Francisco (CCSF) Agencies (10) – Interagency Cooperative Agreement (ICA).
  - The ICA will provide a single agreement between CCSF and TJPA for Phase 2 of the Transbay Program, with a common set of terms negotiated with TJPA counsel and one team from City Attorney’s Office (CAO). The ICA is supplemented by two sets of appendices: Appendix A – Real Estate; Appendix B – Technical Scopes by Agency.
  - ICA Drafting and Approval Timeline:
    - Approved by full Board of Supervisors on June 27, 2023.
    - Resolution signed by Mayor; ICA was executed on February 7, 2024.
    - *Technical Advisory Committee Meeting was held March 2024; TJPA hosts and manages the meeting; the meetings continue to provide an effective clearing house for city and county actions on shared DTX issues, primarily with SFPW, SFPUC, and SFMTA and with other departments as needed for specific input; one critical goal is early identification of potential risks to the Transbay DTX project.*
    - Appendix B to the Agreement addresses scope and budget for FY2024-2025 for each of the 10 agencies; 8 departments have provided input and comments.

- Joint Trench Agreement
  - TJPA continues to work on a single agreement for 9 parties (Astound, Comcast, CVIN, Cogent, Extenet, Lumen, Verizon, Zayo, and the San Francisco Department of Technology) and will share the cost estimate with the 9 telecom entities upon design completion. TJPA is responsible for the costs associated with relocating San Francisco Department of Technology facilities while the private parties are responsible for their share of the costs.
  - The invitation to participate (Form A) was distributed in July 2023; all participating entities had responded in September 2023; Form A will be modified to reflect schedule changes.
  - Cost Estimate (Form B) will be distributed upon 100% Design completion.
  - Coordination with the 11 telecom companies, including those who will not relocate in the joint trench facility, continues in support of the utility relocation design progression and development.
  - TJPA legal rights have been established under CCSF franchise agreements.
  - Temporary relocations include water and sewer lines.
  - AT&T PacBell advised TJPA that it plans to relocate all of its existing facilities outside the excavation limits.
  - AT&T-TCA will abandon all existing facilities within the excavation limits.
  - The 9 private telecom entities and SFDTPS have agreed to relocate their facilities in the proposed joint trench structure located in the center of Townsend St. between 3<sup>rd</sup> and 7<sup>th</sup> Streets.
  - FTA advised that TJPA needs to check their procurement process regarding technical and legal requirements for executed agreements. FTA requested copies of Forms A and B for their review.
  - PG&E has made the decision not to participate in the agreement based on the proposed physical location of the joint trench facility.
  - TJPA is making provisions for spare capacity in the trench structure for future use.
  - Horizontal alignment and composition of the joint trench facility has been completed.
  - Vertical alignment is being revised based on updated utility crossing information and to minimize depth of excavation; additional as-built drawings and data from the Central Subway project are being used to inform the Transbay DTX design.
  - TJPA continues development of the shared cost breakdown concept.
  
- Peninsula Corridor Joint Powers Board (PCJPB)
  - The Master Collaborative Agreement with Caltrain (MCA) will provide the respective roles and responsibilities of TJPA and Caltrain and detail the procedures for both to work cooperatively together for the design, construction, commissioning, operation, maintenance, funding, risk allocation and asset disposition of the Transbay DTX Project. TJPA continues working on the new MCA.
  - Workplan timeline and status:

- The TJPS/Caltrain Interim Agreement has been completed and was approved by the PCJPB on August 3, 2023 and by the TJPA Board on August 10, 2023. Completion of the Final MCA is targeted for September 2024.
  - TJPA/Caltrain resumed discussion and work on the MCA in January 2024.
  - Interim Agreement features:
    - Separate, stand-alone Agreement – August 2023 to September 2024.
    - Defers work in Rail Yard to another separate TJPA/Caltrain agreement.
    - Focus on Reimbursement Mechanics: Work Scope; Caltrain investments; Resource Scheduling.
  - Other separate agreements:
    - Sitework MOA for Caltrain reimbursement to oversee yard work.
    - Railyard Agreement draft in review; final anticipated in June 2024, a 3-month delay from the previous forecast.
  - Facilitated Partnering Process kick-off meeting held on September 8, 2023.
    - *The planned January 29, 2024 Partnering Session was rescheduled and held on March 22, 2024.*
    - Partnering Sessions expected to expand participation to include project senior management from TJPA and Caltrain.
- Pacific Gas and Electric (PG&E)
    - TJPA continues negotiating an agreement with PG&E for providing power to the Transbay DTX project for the new underground rail station located at Fourth and Townsend Streets, the new rail terminal at the Salesforce Transit Center and the tunnel ventilation facilities.
      - Agreement targeted completion date – August 2023; not achieved.
      - Includes both temporary and permanent relocation of multiple gas, electric and telecom lines located along the project ROW. *A single agreement is anticipated but there may be a need for separate agreements based on work scoping and timing.*
      - TJPA has opened a Phase 2 account under gas utilities to engage PG&E review of project submittals.
      - Additional DTX power requirements have been identified and inputs revised; corresponding revised Load Flow Analysis (LFA) and model for the Caltrain Traction Power system is in progress; Caltrain engaged in review of early draft analysis and continues their involvement as the analysis finalization progresses; draft LFA anticipated April 12, 2024; final approved LFA anticipated May 24, 2024 pending further coordination with Caltrain.
      - Work by PG&E Along Second and Howard Streets includes:
        - Survey of existing underground electrical vaults and ductbanks; planning required work to modify/relocate/abandon to meet DTX plans.
        - Gas distribution lines study/analysis to modify as needed for DTX.
      - Work by PG&E Along Townsend Street includes:
        - Survey of existing underground electrical vaults and ductbanks between Third and Fourth Streets; all vaults to be relocated to north side of street outside DTX excavation limits.

- Gas distribution analysis to support required de-activation plans.
  - PG&E decided not to participate in Joint Trench with telecoms due to its location within the excavation.
  - PG&E electric and gas have agreed to relocate all facilities between Third and Fourth Streets into a PG&E Joint Trench on north side of Townsend St outside the DTX excavation limits.
  - It is planned that TJPA's PDB contractor construct structures on behalf of PG&E. PG&E plans to do all cable pulls, connections and cutovers.
  - It is planned that PG&E electric will relocate overhead power lines between 4th and 7th St to the north sidewalk of Townsend in coordination with the PDB shoring wall construction.
  - PG&E provided design concept (plan set) for work between 3<sup>rd</sup> and 4<sup>th</sup> Streets.
- TJPA/Caltrain Railyard Agreement for Transbay DTX 4<sup>th</sup> and King Railyard Site Work
    - Caltrain (permanent easement holder)
      - November 9, 2023: TJPA Board formally adopted division of 4KY contract: Package A Site Clearing (20-4KYA) and Package B At-grade Track and Systems (21-4KYB).
      - November 9, 2023: TJPA Board formally adopted design-bid-build for 20-4KYA and construction manager/general contractor (CMGC) for 21-4KYB.
      - December 7, 2023: Caltrain Board approved agreement terms for CMGC for 21-4KYB with Caltrain as delivery agency for 21-4KYB and TJPA as delivery agency for 20-4KYA .
      - December 14, 2023: TJPA Board approved Caltrain as the delivery agency for 21-4KYB.
      - Kick-off meeting for Railyard agreement held on December 19, 2023; subsequent meetings were held on January 16 and February 23, 2024.
      - Parties identifying negotiating process, teams, and leads for issues relating to 4KY agreement.
      - Parties developing CMGC procurement plan for 21-4KYB and anticipate release of RFQ in Q1-2024.
      - Following completion of 30% Design (Final) for both 20-4KYA and 21-4KYB, anticipated in March 2024, the draft 4KY Railyard Agreement to be completed.
      - *Draft 4KY Railyard Agreement anticipated to go to both TJPA and Caltrain Boards in late Spring and with final agreement in August 2024.*
      - Sitework MOA expires on March 31, 2024 and needs to be extended; TJPA plans to include MOA in the 4KY Railyard Agreement.
    - Prologis (property fee owner)
      - TJPA previously advised that the agreement timeline development continues to make progress but remains dependent on outcomes of TJPA's work with Caltrain.

- The PMOC remains somewhat concerned about the apparent lack of reported progress advancing the Caltrain/Prologis agreement. TJPA previously noted that there has been real progress in several areas.
- A meeting with Prologis involving both TJPA and Caltrain was held on February 5, 2024.
- Prologis has been briefed on the 6<sup>th</sup> Street Sewer re-alignment plans. SFPUC has provided additional information:
  - The sewer outfall to Mission Creek has been changed; SFPUC will need to check the hydraulic analysis for any impacts.
  - SFPUC advised that an access road to the re-aligned sewer will be needed for inspection, maintenance and repair.

### PMOC Concerns and Recommendations

- The PMOC previously expressed concerns about the challenges presented in negotiating agreements involving three diverse entities: an operating rail transit agency; local city government; private sector property fee owner. Under these circumstances, the negotiation process can require additional time and may require revisions to the project design, including acquisition of additional project Right-of-Way (ROW) property.

The PMOC had previously expressed the opinion is that, in general, the critical third-party agreements present a significant risk to the project based on the following observations:

- *There are 12 critical third-party agreements identified by the Project Sponsor for the project.* The PMOC notes one of the agreements, with the City and County of San Francisco, has been completed, a significant achievement given the many City departments involved.
- Many of the agreements involve multiple parties with diverse interests in both the private and public sectors. The PMOC also notes that during August 2023, the TJPA/Caltrain Interim Agreement was completed and approved by the PCJPB and the TJPA Board. This will serve as a “bridge” agreement until the Final TJPA MCA with Caltrain is completed.
- The scope of the agreements is wide and includes various combinations of the following key project elements:
  - Project design coordination
  - Modifications to existing infrastructure not owned by TJPA.
  - Cost sharing
  - Construction coordination and support
  - Operation and maintenance of the new rail system extension, station and terminal

## **2.11 Construction**

### **Forecast Construction Start**

In January 2023, construction had been forecast to commence during 4Q-2023 with the Advance (Enabling) Work Program contracts. The forecast changed during March 2023 with the utility relocation work forecast to start late in 2Q-2024, a delay of approximately 5-6 months. The utility relocation is now forecast to start during early 4Q-2025, a total delay of approximately 21-22 months. See also Section 2.14, Project Schedule, for additional discussion.

### **Progressive Design-Build Contract**

TJPA has selected the Progressive Design-Build (PDB) delivery method for the civil and tunnel scope of work and is currently advancing the procurement of this contract. See Section 2.6, Project Delivery Method and Procurement, for details.

## **2.12 Vehicle Technology and Procurement**

There are no direct revenue service vehicle procurements by TJPA included in the final DTX Project scope of work.

During April 2023, TJPA notified the FTA that TJPA was considering a modification to the DTX Project definition to take advantage of a contract option available under Caltrain's current EMU rail car procurement and add one additional 7-car trainset under the Transbay DTX Project. However, at the end of July 2023, TJPA decided not to include the one trainset in the Transbay DTX Project, but Caltrain will continue with its plan to procure four (4) trainsets under the existing option (three diesel replacements and one spare) under a separately funded Caltrain project. During August 2023, TJPA included in the Transbay DTX Project scope of work the acquisition of five non-revenue Maintenance of Way vehicles and the level-boarding door modifications to the 23 new EMU revenue vehicles from Caltrain under their current procurement.

## **2.13 Project Cost**

The Sponsor has completed preparing/finalizing the components of the Program Cost Estimate. The Final Capital Cost Estimate, prior to the FTA/PMOC Risk and Contingency Assessment, was approved at the TJPA Board meeting on February 9, 2023. Based on finalization of the Program scope of work and the results of the FTA/PMOC Risk and Contingency Assessment, the Total Project Cost is \$8,255 million Year of Expenditure (YOE), including financing cost and contingency, as presented in TJPA's revised SCC workbook dated August 25, 2023.

### *March 2023 Sponsor updates included:*

#### **1. Program Funding Status**

- Final Joint TJPA/Caltrain 20-Year Financial Plan has been completed.
- In December 2023, Federal/State Partnership Grant awards were announced. Transbay DTX was not selected for the anticipated \$194 million award. TJPA is seeking replacement funding sources.

- In September 2023, FRA announced CRISI awards. Transbay DTX was not selected for the anticipated \$60 million award. TJPA is seeking replacement funding sources.
- TJPA submitted its application for a \$227 million National Infrastructure Project Assistance (Mega) Grant on August 21, 2023. In January 2024, TJPA was notified that Transbay DTX was not selected for the award. TJPA plans to re-apply in 2024.
- For the Community Facilities District Bond Capital Funding Source (CCSF), the updated CCSF forecast has been included in the 20-Year Financial Plan.
- CTC action on budgeted \$60 million from TIRCP:
  - In October 2023, CTC programmed \$60 million and allocated \$15.5 million.
  - Allocation of \$44.5 million balance expected in early FY24-25.
  - This funding source is for professional services and will be used for engineering/design work.
- Regional Measure 3 funding: MTC allocated \$100.7 million in November 2023 for ROW acquisition, relocation, and professional services.
- In response to the FTA's inquiry, TJPA advised that it is still evaluating a loan from the USDOT's Transportation Infrastructure Finance and Innovation Act (TIFIA) program.
- TJPA continues to respond to FMOC questions and requests for information as required.
- *In response to the need to secure funding to replace recent lost opportunities, TJPA has revised and adjusted its funding strategies to optimize approaches for federal discretionary funding and increase focus on additional state, regional and local funding sources.*

## 2. Program Cost Status

- Reflecting the results of the FTA/PMOC Risk Assessment, TJPA submitted an updated SCC workbook dated August 25, 2023, inclusive of the train box constructed under DTX Phase 1, the acquisition of five non-revenue Maintenance of Way vehicles and the level-boarding door modifications to the 23 new EMU revenue vehicles from Caltrain under their current procurement, including contingency and finance costs, which reflected a total project cost of \$8,255 million. TJPA completed its bottom-up cost estimate for the SCC80 elements based on its recently developed staffing plan and on the TJPA/Caltrain Interim Agreement and confirmed its current estimate as reflected in the updated SCC workbook dated August 25, 2023.
- Current forecast of cost estimate updates for Advance (Enabling) Works Program:
  - 90% Utilities Relocation Design – November 2023 (not achieved).
  - 30% 4<sup>th</sup> and King Railway Site Work Design – *Delayed from January to April 2024.*
  - 30% Building Demolition Design – October 2023 (not achieved); completed in January 2024.
- TJPA continues to work on detailing the \$25 million Rail Yard Allowance cost item.
  - Detailed cost breakdown will be based on 30% Design for 4<sup>th</sup> and King Railway sitework; *30% Design completion delayed until April 2024 when work scope will be divided into Packages 4KYA and 4KYB and separate cost estimates will be developed.*
  - Ongoing coordination with Caltrain on approach and schedule to develop the cost update; schedule and constructability reviews completed in December 2023.

- Bottom-Up Cost Estimate for SCC 80 Elements
  - TJPA continues to update the Staffing Plan with additional 3rd-party staffing from Caltrain and the five agency project partners.

## PMOC Concerns and Recommendations

### Program Funding

The PMOC notes that the Transbay DTX Project was not selected for three key funding source awards (FRA CRISI Grant, Federal/State Partnership Grant, National Infrastructure Project Assistance (Mega) Grant) representing a total of \$241 million in federal funding for the project. This presents an additional challenge to TJPA in their efforts to secure matching funds as required by the FTA Capital Investment Grants Program. The PMOC recommends that TJPA continue to maintain program funding as a critical priority and seek other available funding sources either as a direct recipient or through eligible project stakeholders.

### Program Cost

At the February 21, 2024 FTA/PMOC monthly meeting with TJAP, the PMOC requested that TJPA commence more detailed cost reporting against the established project budget. This approach would be similar to the current TJPA schedule reporting that includes a detailed quantitative monthly update with a narrative that discusses changes, impacts of current and anticipated project issues and use of contingency. *TJPA responded that the incoming PMCM consultant will be developing this reporting for the project cost as a key initial task when the consultant is mobilized, now anticipated in early 3Q-2024.*

## **2.14 Project Schedule**

The Project Master Schedule, prior to the FTA/PMOC Risk and Contingency Assessment, was approved at the TJPA February 9, 2023, Board meeting. Reflecting the result of the FTA/PMOC Risk Assessment completed in August 2023, TJPA accepted the results of the schedule analysis and finalized their updated Master Schedule to align with the analysis outcomes for Planned Revenue Service Date (RSD) of September 30, 2032 and FFGA RSD of June 27, 2035 with contingency.

*March 2024 Sponsor updates included:*

- *The February 2024 Master Schedule update was provided in early March 2024 and has a data date of January 31, 2024.*
- *The critical path remains unchanged since the last update and includes the following elements:*
  - *Completion of the Technical memorandum sequentially through the 90% and 100% status by August 2024 and February 2025 respectively.*
  - *Advertise and award the utility relocation construction package by October 2025*
  - *Perform utility relocations and adjustments Second and Townsend by December 2026*



- Construct the 4<sup>th</sup> and Townsend Station by September 2031
- Construct the 4<sup>th</sup> and Townsend headhouse by October 2032
- Complete systems testing by February 2033
- Complete Pre-revenue testing by August 2033
- The previous schedule update contained schedule refinements which resulted in a schedule slip of several non-critical items. The master schedule added new activities representing the additional work required to develop the Railyards Agreement for the 4KYA and B contract packages. The current schedule update maintained progress on these activities..
- TJPA is working with utility agencies, GEC and PMPC scheduling specialists to optimize the utility design and construction schedule to mitigate any future schedule impacts.
- Although not shown in the schedule update, discussions with TJPA revealed that real estate progress may fall behind schedule. There may be schedule complications if the real estate processes are not maintained. Demolition of a few structures is required to allow the contractor to construct vent shafts and adits. The schedule for these activities has a total float of 29 work days.
- The Master Schedule has a secondary path with a total float of 106 work days. This is an increase of 9 WD since the last update. Those activities include:
  - Building Demolition Design 100% by September 2024
  - Advertise and award Building Demo contract by March 2025
  - Complete the Real Estate process by June 2026
  - This tied to critical tunnel work
- An additional path with total float of 158 work days. This is an increase of 4 WD since the last update and includes the following work:
  - 4<sup>th</sup> and King Yard Design Package B 60% by November 2025
  - 4<sup>th</sup> and King Yard Design Package B 90% by May 2026
  - 4<sup>th</sup> and King Yard Design Package B 100% by August 2026
  - Package B Long lead procurements by August 2027
  - 4th and King Yard construction stages 2 through 7 and U wall by May 2030.
  - Ties to Test and Revenue Service
- The target for revenue service remains at August 31, 2033.
- March 2024 Master Schedule Update Look-Ahead
  - Industry Review of Civil and Tunnel (PDB short-listed) RFP documents will be performed.

*The TJPA board adopted a CMGC delivery method for 4KYard Contract B (previously DBB). Appropriately, the 4KYB activities have been analyzed and reorganized in the schedule. This reflects that 4KYB is no longer an advanced work contract, rather will occur concurrently with other main construction contracts.*

*After analyses, the duration of the 90% utility package in the master schedule was increased to allow for more time for agency coordination, decision making, changes in scope of the relocations. It was recognized that significant coordination with both private and public utilities is required to receive approval from the utilities for relocation concepts. The City requested to relocate instead of support-in-place all water and sewer lines which has a material impact on the number of relocations and design time required for the 90% utility package submittal.*

*The project team worked with the GEC to update the utilities design schedule to identify stakeholder review and coordination needs and has also thoroughly assessed the utility scope of work of each construction contract.*

*As a result of the schedule adjustments noted the total schedule contingency draw down was 177 working days (from 643 to 466). The Target Start of Revenue Service Date has moved from December 6, 2032 to August 18, 2033.*

*In January, TJPA released Addendum 4 for the Civil & Tunnel Progressive Design-Build (PDB) Request for Qualifications (RFQ) procurement. This addendum introduced a DRAFT Agreement review to the short-listed firms prior to the release of the RFP and pushed out the subsequent RFP dates, award date, and follow on preconstruction activities. There was an impact to the Civil and Tunnel Construction Notice to Proceed (NTP) and Target Start of Revenue Service date. The release of Addendum 4 placed the PDB Procurement activities, preconstruction on the critical path.*

*The Civil and Tunnel Construction NTP remains on the critical path. The 4th and Townsend St station activities under Civil and Tunnel Construction, and Station-Fit out testing and commissioning activities also are critical. Advanced utilities design, procurement, and construction, which were previously on the critical path, now have a low value of total float.*

*Because of the schedule adjustments made, the total schedule contingency drawdown decreased further by 9 WD (from 466 to 457). The Target Start of Revenue Service Date has moved from August 18, 2033 in the previous update to August 31, 2033.*

#### **PMOC Concerns and Recommendations**

*The previous schedule update delay was the recognition of extended time needed to finalize the utility relocation plans. This is a concern because the utility relocations are an early work item that controls access to most of the project. Additionally, the PMOC remains concerned that the project is using valuable schedule contingency prior to the actual start of construction when contingency is most needed. TJPA is in the process of assembling a team to address the best and most efficient approach to the utility relocation work. The PMOC notes that the use of an additional 9 WD of schedule contingency was indicated in the January 2024 schedule update, bringing the total use of schedule contingency to 186 WD.*

*The PMOC is also concerned that a lack of progress in real estate procurement may have negative impacts to the project schedule.*

## **2.15 Project Risk**

The Sponsor updates the Project Risk Register and provides a summary report to management on a quarterly basis. The top project risks as recorded on TJPA's post-PMOC Risk Assessment Risk Register are presented in Attachment C of this report.

Based on TJPA's finalization of the DTX Project scope of work during July 2023, the PMOC updated its initial scope, cost estimate, schedule, and risk analyses developed in the May 2023 Risk Workshop and provided the results to FTA on August 10, 2023, for review and concurrence.

The results, which indicated an estimated project cost of \$8,255 million including finance cost and contingency, and a forecasted FFGA Revenue Service Date of June 27, 2035, including contingency, were then provided to and reviewed by TJPA. TJPA accepted the results and completed updates of any affected project documents required for project rating and/or acceptance to advance the project into the Engineering phase. The PMOC completed the Final OP32C, 33, 34, 40 Scope, Cost, Schedule, Risk and Contingency Review Report and submitted the report to the FTA on August 31, 2023.

During October 2023, TJPA held its scheduled 4Q-2023 internal risk workshop. The resulting Risk Update Memo presenting the workshop details and outcomes was provided in January 2024. *The updated Q3-2024 Qualitative Risk Analysis Report was provided in February 2024 and has been reviewed by the PMOC. The PMOC and TJPA met in early March 2024 to discuss the report, and the PMOC provided feedback concurring with TJPA's approach to aligning the project's bottom-up cost model with the FTA's top-down model and provided guidance on updating the cost and schedule contingency drawdown curves.*

## **2.16 Quality Assurance/Quality Control**

The Sponsor has completed preparing the Project Quality Assurance Plan, and the PMOC has completed its OP24 review. Refer to the Project Management Plan and Subplans section of this report for the status of the QAP.

## **2.17 Safety and Security**

The Sponsor has completed the Project Safety and Security Management Plan (SSMP) and provided the SSMP to the PMOC on April 17, 2023, and the PMOC completed its review. Refer to the Project Management Plan and Subplans section of this report for the status of the SSMP.

## **2.18 Americans with Disabilities Act (ADA)**

The PMOC has reviewed ADA compliance during the following reviews:

- OP20 – Project Management Plan
- OP22 – Project Safety and Security Management Plan
- OP32C – Project Scope Review

## **2.19 Buy America**

The PMOC has reviewed Buy America compliance during the following reviews:

- OP20 – Project Management Plan
- OP32C – Project Scope Review

## 2.20 Start-Up, Commissioning, Testing

The project is currently at the Preliminary Engineering/Design Stage, approximately 30%. The PMOC evaluated the adequacy of the system start-up, testing and commissioning provisions in the Design Basis and Design Criteria documents, as well as in the SSMP, that was reviewed for the OP32C Project Scope Review.

## 2.21 Before-and-After Study Reporting

The PMOC will confirm that the Sponsor has addressed the requirements for the Before-and-After Study Reporting during the following reviews:

- OP21 – Management Capacity and Capability
- OP33 – Capital Cost Estimate
- OP51 – Readiness to Enter Engineering

## 2.22 Lessons Learned

OP26 – Lessons Learned is currently not included in the PMOC scope of work for either the Regional or Programmatic Task Orders for oversight services on the Transbay Downtown Rail Extension Project, Phase 2.

## 2.23 Actions Items Table

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status / Action Required
23-5.	Provide summary and status of required permits, agreements and approvals for Early Action (Enabling) Work Packages: Utility Relocations;4KY Preparation; Building Demolition.	TJPA	Oct. 18, 2023 @ Monthly Meeting with FTA/PMOC .	For start of OP39 Review Dec. 2023	Feb. 5, 2024	<b><i>Resolved</i></b>
23-6.	Provide Utility Relocation	TJPA	Nov. 15, 2023 @ Monthly Meeting	Dec. 2023	Feb. 1, 2024	<b><i>Resolved</i></b>

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status / Action Required
	Forms A and B for FTA review.		with FTA/PMOC			

### 3.0 PROJECT MONITORING REPORT ATTACHMENTS

- A. List of Acronyms
- B. Safety and Security Checklist – In preparation by the Sponsor.
- C. Top Project Risks
- D. Awarded Contracts – Working with Sponsor to include all current contracts for professional services.
- E. Rolling Stock Vehicle Status Report – N/A.
- F. Project Milestones/Key Events – Will be included in a subsequent Monthly Report based on the risk-informed Final Draft Master Schedule and current schedule updates.
- G. Roadmap to Revenue Operations – Will provide Roadmaps for Entry to Engineering and FFGA based on FTA development details.
- H. Project Map
- I. Monthly FTA/PMOC Meeting Agenda

## **Attachment A: List of Acronyms**

ACOR	-	Alternate Contracting Officer Representative
ADA	-	Americans with Disabilities Act
ALTA	-	American Land Title Association
CAO	-	City Attorney's Office
CCSF	-	City and County of San Francisco
CEQA	-	California Environmental Quality Act
CHSRA	-	California High Speed Rail Authority
CIG	-	Capital Investment Grants
CMGC	-	Construction Manager/General Contractor
CRISI	-	Consolidated Rail Infrastructure and Safety Improvements Program (FRA)
CTC	-	California Transportation Commission
DTX	-	Downtown Rail Extension (as in "Transbay DTX Project")
DBB	-	Design/Bid/Build
EMU	-	Electric Multiple-Unit (rail car vehicle)
ESA	-	Environmental Site Assessment
FEIS	-	Final Environmental Impact Statement
FFGA	-	Full Funding Grant Agreement
FMOC	-	Financial Management Oversight Contractor
FRA	-	Federal Railroad Administration
FTA	-	Federal Transit Administration
GEC	-	General Engineering Consultant
ICA	-	Interagency Cooperative Agreement
IPMT	-	Integrated Program Management Team
LFA	-	Load Flow Analysis (related to Caltrain's traction power system)
LONP	-	Letter of No Prejudice
LPA	-	Locally Preferred Alternative
MCA	-	Master Collaborative Agreement (TJPA/Caltrain)
MCC	-	Management Capacity and Capability
MMR	-	Mitigation Monitoring Report
MMRQ	-	Quarterly Mitigation Monitoring Report
MOU	-	Memorandum of Understanding

MTC	-	Metropolitan Transportation Commission
NEPA	-	National Environmental Policy Act
NSPS	-	National Society of Professional Land Surveyors
NTP	-	Notice to Proceed
OCS	-	Overhead Contact System
PCEP	-	Peninsula Corridor Electrification Project (Caltrain)
PCJPB	-	Peninsula Corridor Joint Powers Board
PD	-	Project Development
PDB	-	Progressive Design-Build
PG&E	-	Pacific Gas & Electric
PMCM	-	Program Management/Construction Management
PMOC	-	Project Management Oversight Contractor
PMPC	-	Program Management/Project Controls
PMP	-	Project Management Plan
QAP	-	Quality Assurance Plan
QA/QC	-	Quality Assurance/Quality Control
QRA	-	Quantitative Risk Assessment
RAMP	-	Real Estate Acquisition and Management Plan
RCMP	-	Risk and Contingency Management Plan
RFMP	-	Rail Fleet Management Plan
RFP	-	Request for Proposal
RFQ	-	Request for Qualifications
ROD	-	Record of Decision
ROW	-	Right-of-Way
RSD	-	Revenue Service Date
SCC	-	Standard Cost Categories
SEQA	-	State Environmental Quality Act (California)
SFDBI	-	San Francisco Department of Building Inspection
SFDTPS	-	San Francisco Department of Technology
SFMTA	-	San Francisco Municipal Transportation Agency
SFPUC	-	San Francisco Public Utilities Commission
SFPW	-	San Francisco Public Works
SSMP	-	Safety and Security Management Plan

TIFIA	-	Transportation Infrastructure Finance and Innovation Act
TIRCP	-	Transit and Intercity Rail Capital Program
TJPA	-	Transbay Joint Powers Authority (Project Sponsor for Transbay DTX)
WD	-	Work Day
YOE	-	Year of Expenditure
4KY	-	4 <sup>th</sup> and King (Streets) Yard

## **Attachment B: Safety and Security Checklist**



## **Attachment C: Top Project Risks**

The following are the top Transbay DTX Project risks, and their associated unmitigated risk scores as recorded in the DTX Risk Register (Post PMOC Risk Assessment):

<b>Risk ID</b>	<b>Description</b>	<b>Score</b>
138	Delay due to scope adjustment to advance work package for Caltrain 4th & King site work	25
CR13	Failure to secure cut and cover off-street muck-out staging area and having to muck out through ports in decking	20
CR3	Delay in acquisition of funding – risk that 100% committed funding plan is not identified by time of FFGA approval (2025).	20
148	Relocating locker room may have union issue if distance is increased. There is uncertainty as to what facilities need to be moved and where	20
45	Addition of floating slab to minimize operating train noise and vibration	16
3	Premium for work adjacent to operating tracks	16

***Risk Score/Rank***

		<b>Probability/Likelihood</b>				
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Consequence / Severity</b>	<b>1</b>	1	2	3	4	5
	<b>2</b>	2	4	6	8	10
	<b>3</b>	3	6	9	12	15
	<b>4</b>	4	8	12	16	20
	<b>5</b>	5	10	15	20	25

Key for Risk “Score”: 10-25 High (Red), >3-<10 Medium (Yellow), ≤3 Low (Green)

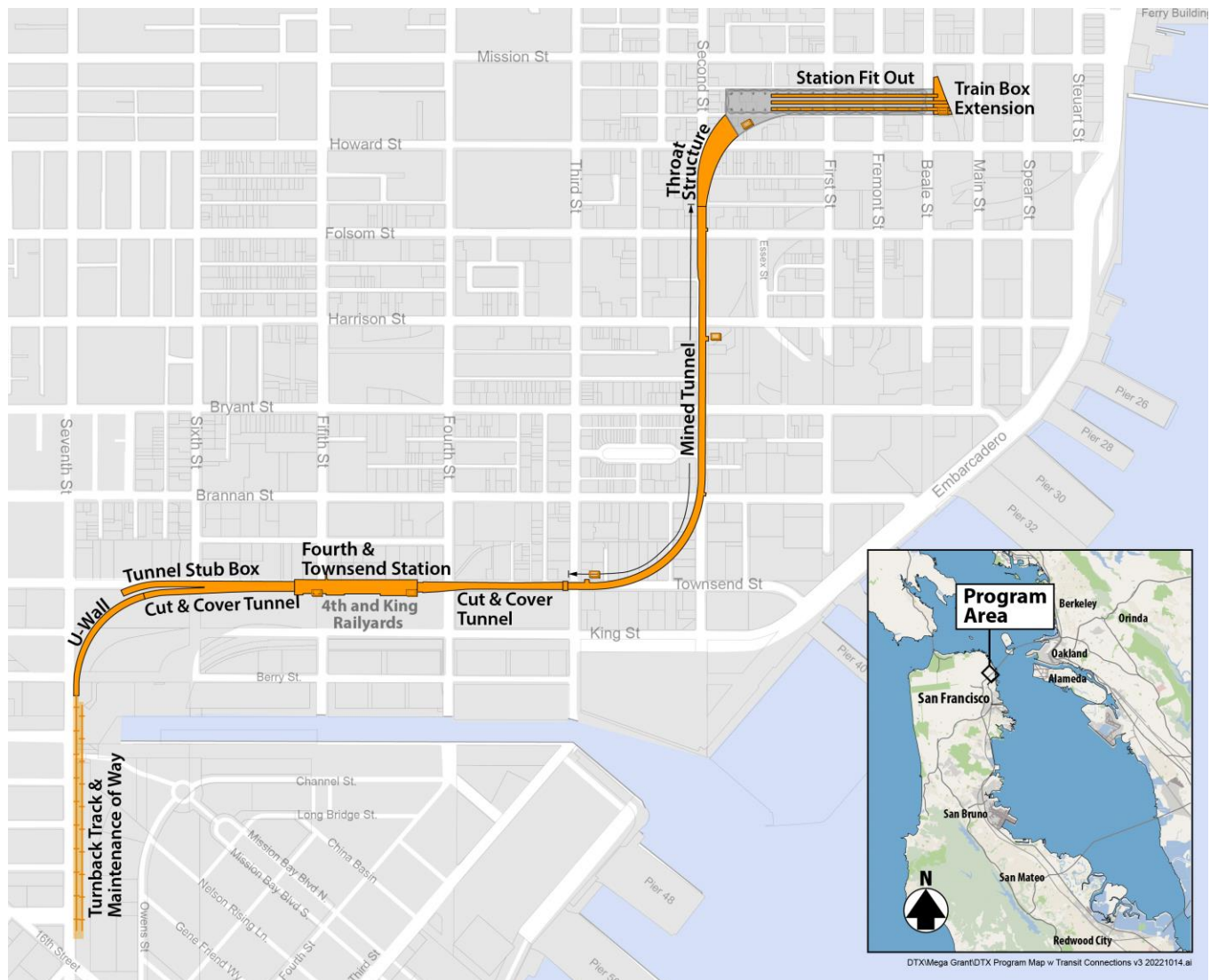
**Attachment D: Awarded Contracts**

**Attachment E: Rolling Stock Vehicle Status Report**

## **Attachment F: Project Milestones/Key Events**

## **Attachment G: Roadmap to Revenue Operations**

## Attachment H: Project Map



## **Attachment I: Monthly FTA/PMOC Meeting Agenda**

### *Transbay Downtown Rail Extension Project, Phase 2*

*Grantee/Sponsor: Transbay Joint Powers Authority*

*FTA/PMOC Monthly Review Meeting*

*March 20, 2024*

### **AGENDA**

#### *3. Entry into Engineering Phase [5 min.]*

- *Process Status*
- *Next Steps*

#### *4. Environmental Process [5 min.]*

- *National Environmental Policy Act (NEPA)*
  - *Mitigation Monitoring Reports*
  - *OP32B Review Comment Status*
- *California Environmental Quality Act (CEQA)*
  - *Notice of Determination Process – Caltrain*
    - *Consultant Evaluation – May/June 2024 for Filing of Notice*
    - *Status of Review against PCEP NEPA – Forecast Completion*

#### *5. Engineering/Design – Advance (Enabling) Works [15 min.]*

- *Utility Relocation Package*
  - *90% Design Submittal Hold – Status of Issues: Agency Coordination and Decisions; Scope Changes; Plan Backgrounds*
  - *Updated Schedule – Forecast Completion Date*
- *DTX 4<sup>th</sup> and King Yard Preparation Packages*
  - *30% Design Progress (4KYA+B)*
    - *Dividing 30% Design to 4KYA & 4KYB – Forecast late March 2024*
  - *Caltrain Asset Survey - Finalization*
- *Building Demolition Package*
  - *60% Design Status*

#### *6. Program Funding [10 min.]*

- *Joint TJPA/Caltrain 20-Year Financial Plan*
  - *Impact - Loss of \$481M funding opportunities in 2023/2024.*
  - *Funding Strategy Approach – Changes or Revisions*
  - *Anticipated Funding Applications for 2024*
- *CTC Action on Budgeted \$60M from TIRCP – October 2023*
- *Community Facilities District Bond Capital Funding Source (CCSF)*
- *Regional Measure 3 Funding - MTC allocated \$100.7 million (Nov. 2023)*
- *Support to Project FMOC*

7. *Program Cost Status Update [10 min.]*

- *Bottom-up Cost Estimate: SCC80 Elements – Staffing Plan Update Progress*
- *\$25 million Rail Yard Allowance Analysis – Progress Summary*
- *Reporting Cost Performance Against Budget*

8. *Program Schedule [10 min.]*

- *Monthly Schedule Discussion – Jan. 2024 Update [Dec. 31, 2023 Data Date]*
  - *Critical Path and Progress on work to Key Milestones*
  - *Report on any late/delayed activities*
- *Status of Critical Path activities scheduled for 1Q and 2Q-2024*
- *90% Utility Relocation Design Delay – Impacts and Mitigations*
- *Mitigations to reduce use of 177 WD Program Contingency*

9. *Risk and Contingency Review [10 min.]*

- *January 2024 Quarterly Risk Workshop (Q4-2023)*
  - *Quarterly Risk Update Memo*
  - *Discuss Any Significant Changes to Risk Profile*
  - *Meeting with PMOC – TBD*

10. *Critical Third-Party Agreements – Status [15 min.]*

- *San Francisco Peninsula Rail Program MOU*
  - *Status of MOU updates/revisions*
- *ICA with (10) CCSF Agencies*
  - *Appendix B Status*
  - *March 2024 Technical Advisory Meeting Outcomes*
- *Master Cooperative Agreement (MCA) with Caltrain*
  - *Progress on 4KY Railyard Agreement*



- *21-4KYB CMGC Procurement RFQ: 1Q-2024*
- *Progress on Sitework MOA*
  - *MOA Extension beyond March 31, 2024*
  - *Agreement Terms Status*
- *Joint Trench Agreement*
  - *Target date for initial draft of single Joint Trench Agreement; discuss delay impacts due to 90% Design hold*
  - *Status of Form A Modifications Reflecting Schedule Changes*
- *Pacific Gas & Electric Agreement*
  - *Status of determination of total power requirements for Transbay DXT*
  - *Caltrain review – Traction Power LFA; study finalization*
  - *Overall Progress to Forecast Agreement Date*
- *Transbay DTX work at Fourth and King Streets*
  - *Caltrain*
    - *Progress on term sheet development/finalization*
    - *Target date for transactional approach selection: Caltrain, TJPA*
    - *Status of Space Planning by Real Estate Working Group*
  - *Prologis*
    - *Status of timeline development*
    - *Status of SFPUC Issues: Access; Hydraulics; Outfall Change*
    - *Discussion with key stakeholders and current/planned agreements: Prologis, TJPA, City of San Francisco – DTX Relocation Plan*
- *Tishman Speyer MOU*
  - *Agreement Status*
  - *Potential Project Impacts*

## *11. Real Estate Acquisitions [10 min.]*

- *Status of balance of acquisitions and easements*
  - *Discus Next Steps*
    - *Environmental Site Assessments*
    - *Notices of Decision to Appraise*
    - *Total Acquisition Offers*
  - *Status of Total Acquisition of CalTrans Property at SEC 2<sup>nd</sup> & Harrison*
  - *Discuss Temporary and Permanent Easement Process*
  - *Summary Matrix including Milestones for Need Dates*
  - *Status for Additional Study Required for Property at 235 2<sup>nd</sup> Street*
    - *Noise/Vibration Mitigation Plan Review by Project Partner Agencies (County of San Francisco; Caltrain)*

- *Status of Draft Report Peer Review*

*12. Procurement [10 min.]*

- *Progressive Design-Build Contract (40-CT)*
  - *Request for Qualifications*
  - *RFP and Price Proposal Internal Review Status*
    - *Draft PDB Contract - Status*
- *Program Management/Construction Management Contract*
  - *Status of Negotiations:*
    - *Anticipated completion*
    - *Recommendation process prior to TJPA Board Action*

*13. Letter of No Prejudice (LONP) [\\]*

- *No need for LONP at this time*

*14. FTA/PMOC Review of TJPA Third-Party Agreements [10 min.]*

- *Configuration Summary*
  - *57 Stakeholders*
  - *21 Third-Party Agreements*
  - *9 Critical Agreements - TJPA*
- *Review Process*

*15. 2024 Project Management Plan Update [5 min.]*

- *TJPA Approach and Schedule*

*16. Additional Discussion [5 min.]*

*17. Next Monthly Meeting*

- *Date/Time: Wed., April 17, 2024 / Time: 11:30 AM-1:30 PM (PDT)*
- *Location: Virtual MS Teams Meeting.*