

## VTA's BART Silicon Valley Phase II Extension



Solutions that move you

VTA Board of Directors November 6, 2025

#### Agenda

1. Contract Packaging Update

2. Overview of Contract Delivery Models

3. Path Forward/Next Steps





# Contract Packaging Update



#### Contract Packaging Approach (prior to Off-Ramp)



CP1 DBB

Comms & Fare Collection

Traction Power

Train Control

**EVS** 

LEGEND

CP – Contract Package

DTSJ - Downtown San Jose

EVS – Emergency Ventilation System

LP – Little Portugal

SC - Santa Clara

SOE – Support of Excavation

**UG** - Underground

CP2 PDB

Bored Tunnel

Tunnel Concrete

**Trackwork** 

UG Station SOE

**Mined Adits** 

**East Portal** 

**West Portal** 

Demo & Utility Relo

CP3 DBB

Santa Clara Station

> Newhall Yard

SC Parking & Campus

CP4 DBB

28<sup>th</sup>/LP Station

28<sup>th</sup> Parking & Campus

DTSJ Station

Diridon Station



#### **Tunnel Contract Delivery Strategy**



- Evaluated scope packaging and delivery options for future tunnel procurement, considering:
  - VTA procurement and delivery goals and objectives
  - Critical procurement and delivery risks, including design and construction interfaces
  - Industry feedback including contract size and early involvement
  - Schedule and sequencing
  - Current status of design and early work packages



#### Recommended Repackaging of CP2



 Identified a recommended contract package for tunneling (Proposed Tunneling Package) including the following:

Bored Tunnel and Precast Concrete Tunnel Lining (PCTL)

Tunnel Mechanical, Electrical, and Plumbing (MEP)

Tunnel Internal Concrete

**East Portal Critical TBM Retrieval Works** 

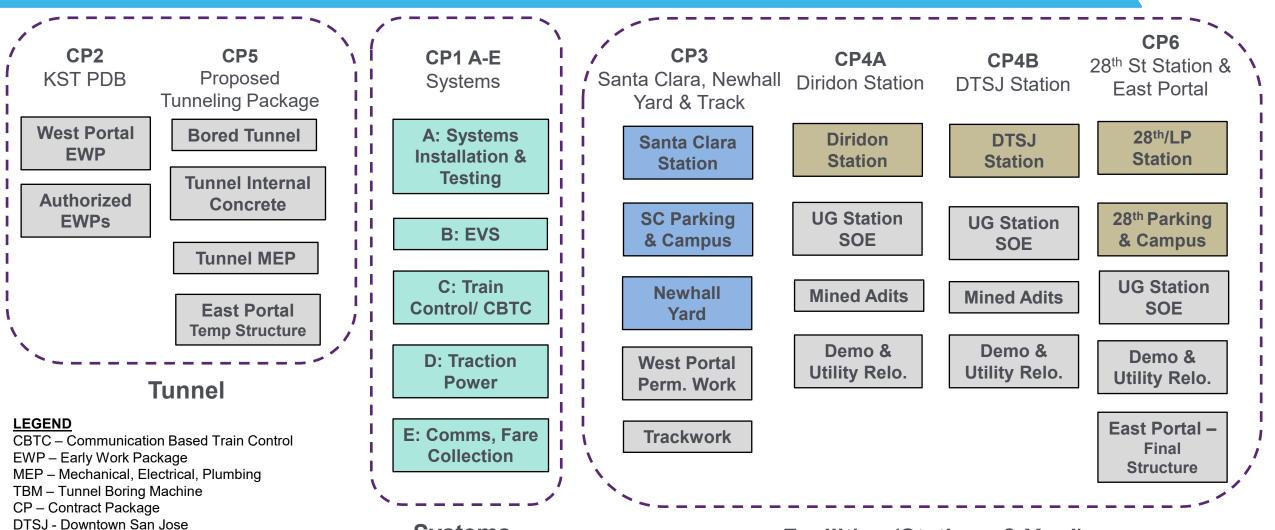
- Expected to increase competition, reduce risk premiums, and mitigate schedule impacts
- Remaining scope elements in CP2 allocated to other contract packages



#### Preliminary Re-Packaging Approach

**Systems** 





**Facilities (Stations & Yard)** 

EVS - Emergency Ventilation System

LP – Little Portugal SC - Santa Clara SOE – Support of Excavation

UG - Underground

### **Contract Packaging Objectives**



## Establish and implement a structured process to confirm packaging and delivery methods of remaining project scope considering:

- Peer Review feedback
- Cost competitiveness
- Schedule assurance
- Constructability/sequencing
- Technical quality, safety, and reliability

- Market engagement/capacity
- Interface & risk management
- Integration & commissioning
- Governance efficiency

As package limits are determined and scope is verified, staff will assess and recommend a specific delivery method for each



## Overview of Contract Delivery Models

## Overview of Delivery Models



#### **Project Delivery Methods**



Characteristics and process of how an infrastructure project is to be designed and built



Responsibilities of the parties involved in design and construction (e.g. the owner, designer, and construction contractor)



Contractual relationships between various parties that define legal obligations



Financial responsibilities, incentives, liabilities, payment terms

#### **Overview of Delivery Models**



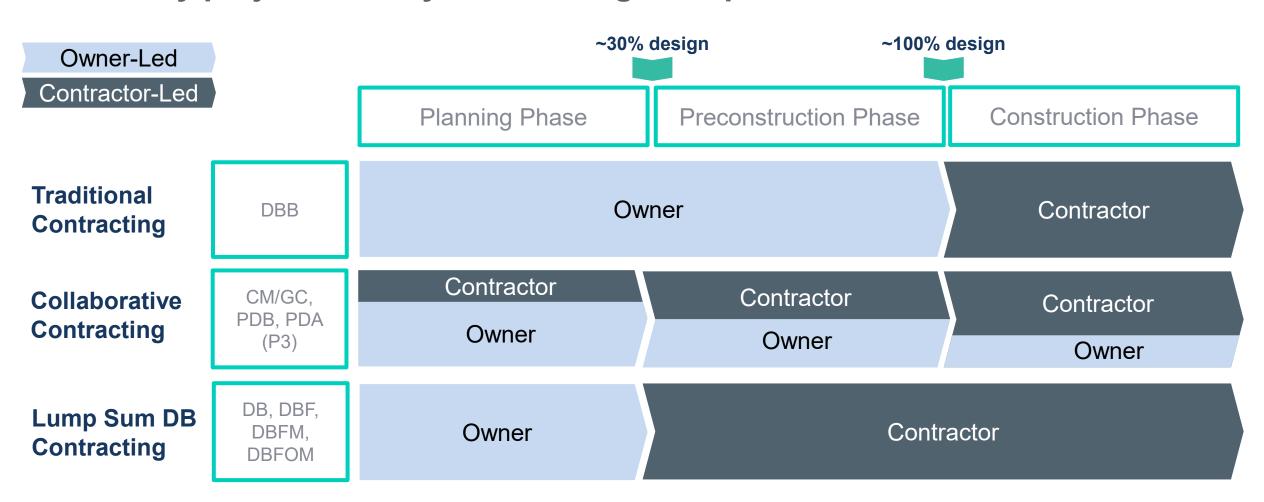
#### Delivery Methods can be viewed on a continuum of responsibility and risk

#### **Greater Owner Role & Risk Greater Private Role & Risk** Construction \ **Design-Build** Design-Bid-Manager/ **Progressive** (DB) **Other Methods including:** Build **Design-Build** General inc. Design-Design-Build-Operate-Maintain-Finance, P3, etc. (DBB) (PDB) Contractor Furnish-Install-Test (DFI) (CM/GC)

### Overview of Delivery Models

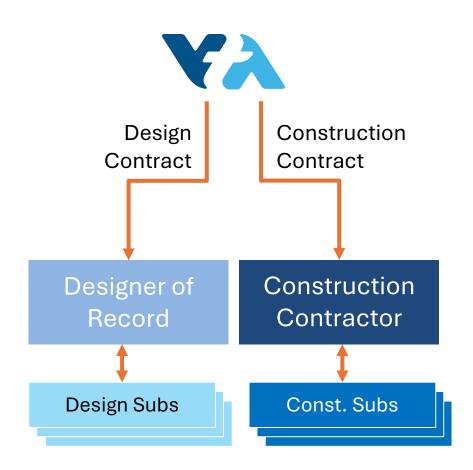


#### Primary project delivery roles during each phase differ for each model



### Design Bid Build (DBB)



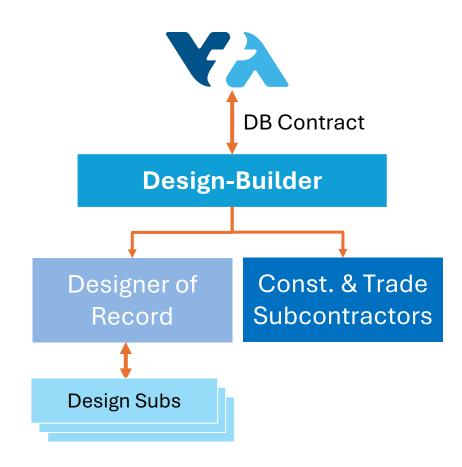


- Design and construction through separate contracts
- Qualifications-based designer selection
- Low-Bid Contractor Selection, through either oneor two-step process
- Price is fixed at contract award based on 100% design provided by Owner
- Construction contractor takes responsibility for delivering a defined plans and specifications
- Design-Builder self-performs part of the scope and procures subcontractors to perform remaining scope
- Typically unit price/quantity construction contract

#### Design Build

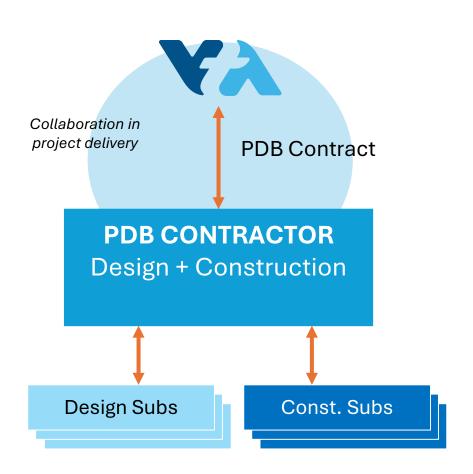


- Integrated contract for design and construction
- Typically, best-value procurement
- Price is fixed at the procurement stage based on the information known at that time
- Design-Builder takes responsibility and risk for delivering the project according to the Ownerdefined requirements and specifications
- Design-Builder responsible for design errors and omissions
- Design-Builder self-performs part of the scope and procures subcontractors to perform remaining scope



#### **Progressive Design-Build (PDB)**





- Similar to DB, where the contractor performs both the design and construction in an integrated manner; but
  - PDB contractor may be engaged earlier than DB, and will negotiate the construction price later than DB; and
  - 2) the Owner, together with any interfacing contractors, is more involved in the design development than DB
- Scope performed in two phases (next slide)

#### **Progressive Design-Build Project Phases**



#### RFQ/ RFP

- Experience
- Approach
- [Price Proposal]

Contract Award

#### PHASE 1

- Design development: up to [60-95]%
- Value Engineering and Innovation
- Other pre-construction services
- Reconciliation of open book estimates at key design milestones (e.g. 30%, 60%)
- Progressive negotiation and build-up of cost (open book), schedule, and terms for the Phase 2 Work, including submission of a Phase 2 proposal

OFF-RAMP

Negotiation/ agreement of the Phase 2 price (firm fixed price or guaranteed maximum price) and terms

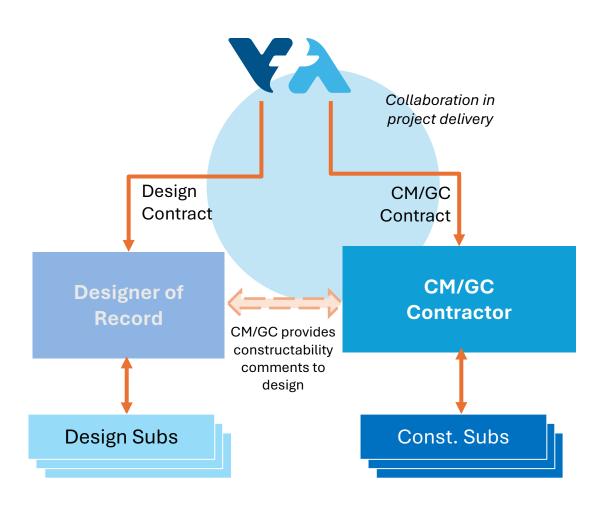
#### PHASE 2

- Final design development to Approved for Construction
- Construction

Early Work Packages

#### Construction Manager/General Contractor (CM/GC)

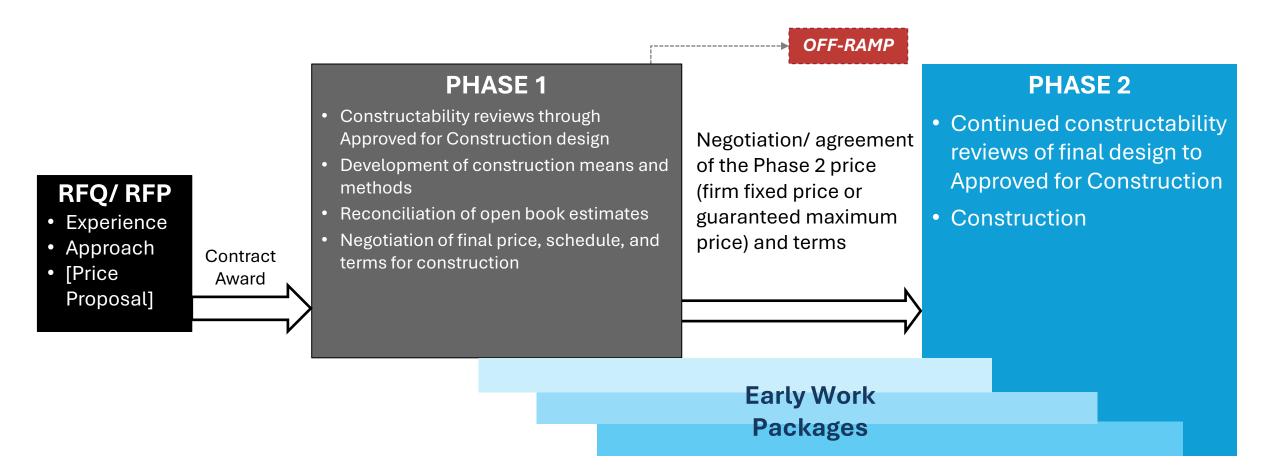




- Similar to Design-Bid-Build in terms of separation of design and construction work packages and the Owner's control of the design process; but the CM/GC is engaged earlier than in a DBB
- CM/GC's scope is performed in two phases (next slide)

#### **CM/GC Project Phases**

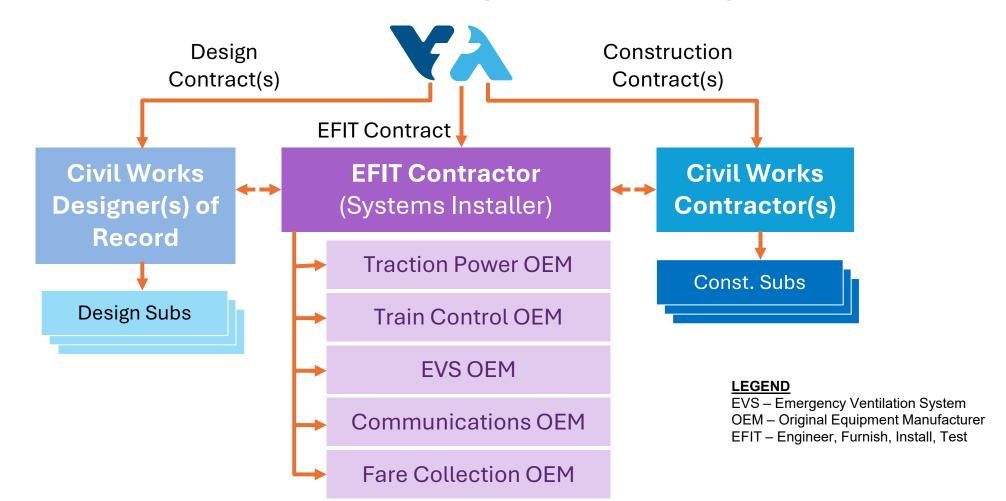




## Design-Furnish-Install (Test)

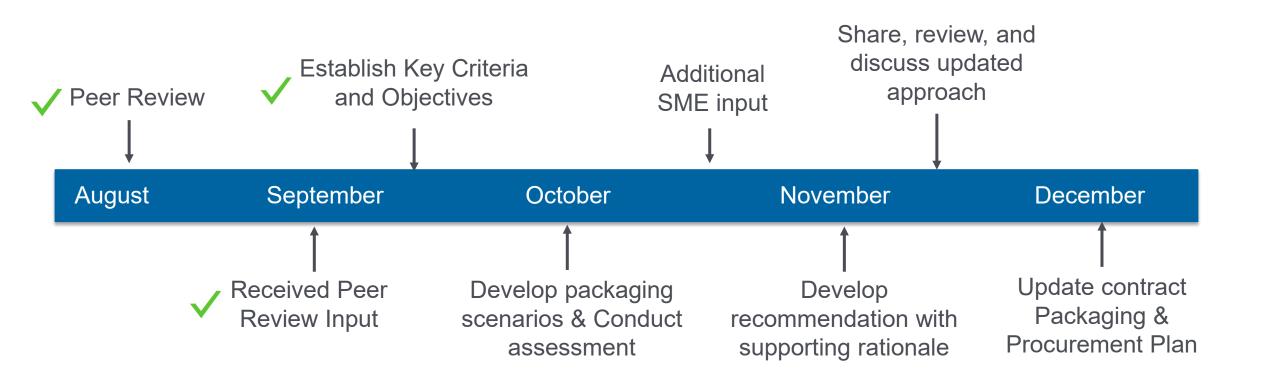


Delivery model specific to complex integrated systems with multiple manufacturer/suppliers, similar to Design-Build with key differences



#### **Contract Packaging & Delivery Methods Next Steps**







# Path Forward/Next Steps

## Path to FTA Full Funding Grant Agreement (FFGA)

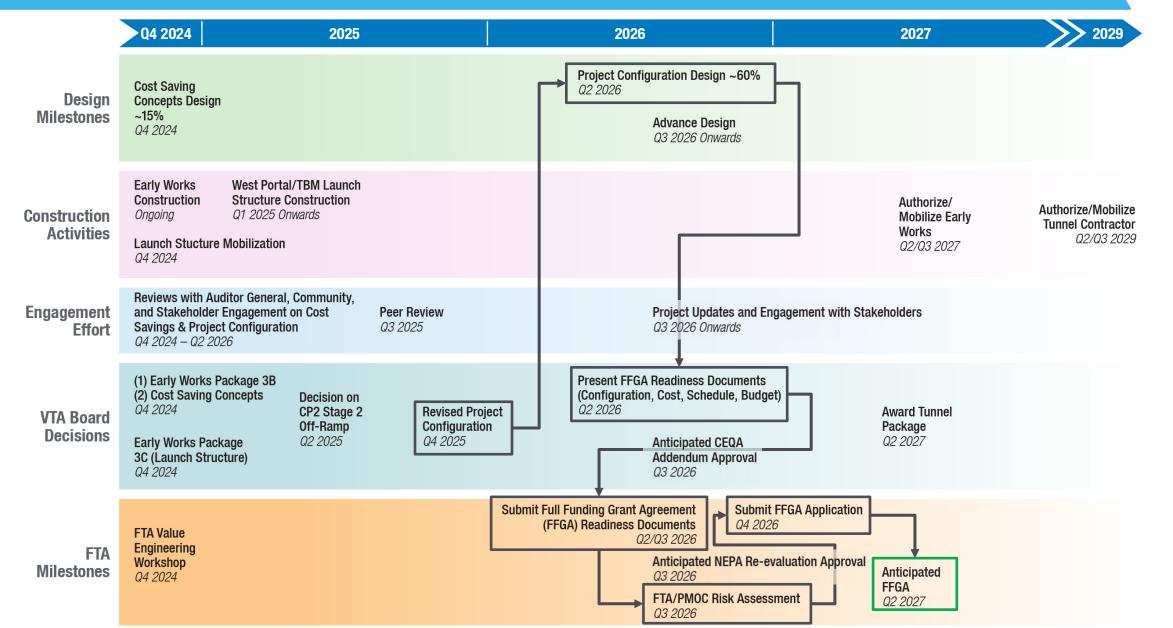


	Q4 2024	2025		2026	2027	2029
Design Milestones	Cost Saving Concepts Design ~15% Q4 2024			Project Configuration Design ~60%  Q2 2026  Advance Design  Q3 2026 Onwards		
Construction Activities	Construction Structur	rtal/TBM Launch e Construction Onwards			Authorize/ Mobilize Early Works Q2/Q3 2027	Authorize/Mobilize Tunnel Contractor <i>Q2/Q3 2029</i>
Engagement Effort			Peer Review Q3 2025	Project Updates and Engagement with Stakeholders Q3 2026 Onwards		
VTA Board Decisions	(1) Early Works Package 3B (2) Cost Saving Concepts Q4 2024  Early Works Package 3C (Launch Structure) Q4 2024	Decision on CP2 Stage 2 Off-Ramp Q2 2025	Revised Project Configuration Q4 2025	Present FFGA Readiness Documents (Configuration, Cost, Schedule, Budge Q2 2026  Anticipated CEQA Addendum Approval Q3 2026	t) Award Tunnel Package Q2 2027	
FTA Milestones	FTA Value Engineering Workshop Q4 2024		Subm	it Full Funding Grant Agreement (FFGA) Readiness Documents Q2/Q3 2026  Anticipated NEPA Re-ev Q3 2026  FTA/PMOC Risk Assessi	valuation Approval Anticipated FFGA	

Q3 2026

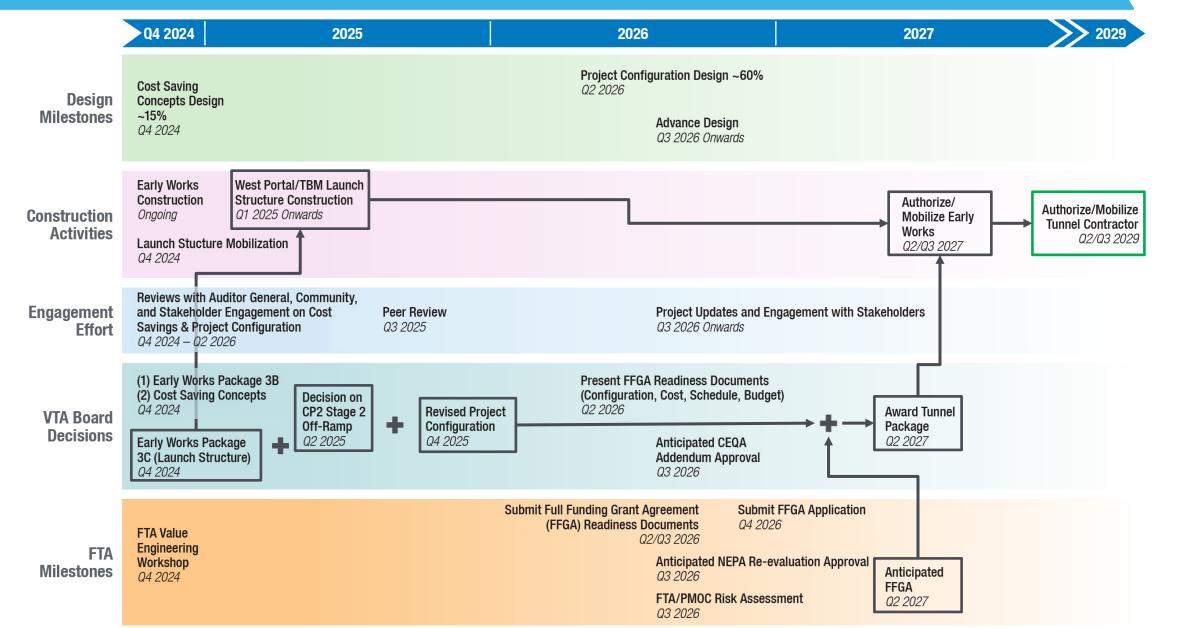
## Path to FTA Full Funding Grant Agreement (FFGA)





#### **Critical Activities to Tunnel Construction**







## Questions?

