



Transbay Program Caltrans Transportation Planning Academy

March 20, 2015

Transbay Transit Center

TJPA





Transbay Joint Powers Authority (TJPA)

- **TJPA created under State law in April 2001**
 - Charged with design, construction and operation of a new Transbay Terminal and associated facilities
- **TJPA, the City and Caltrans approve cooperative agreement in 2003 committing former freeway parcels to the Transbay Program**
- **Member agencies**
 - Caltrans (ex officio)
 - Alameda-Contra Costa Transit District Board Member
 - Peninsula Corridor Joint Powers Board Member
 - City & County of San Francisco
 - San Mateo County Transit/Caltrain
 - Santa Clara Valley Transportation Authority
 - City & County of San Francisco
 - Executive Director of SFMTA
 - Representative of Mayor's Office
 - Representative of Board of Supervisors



Market Street



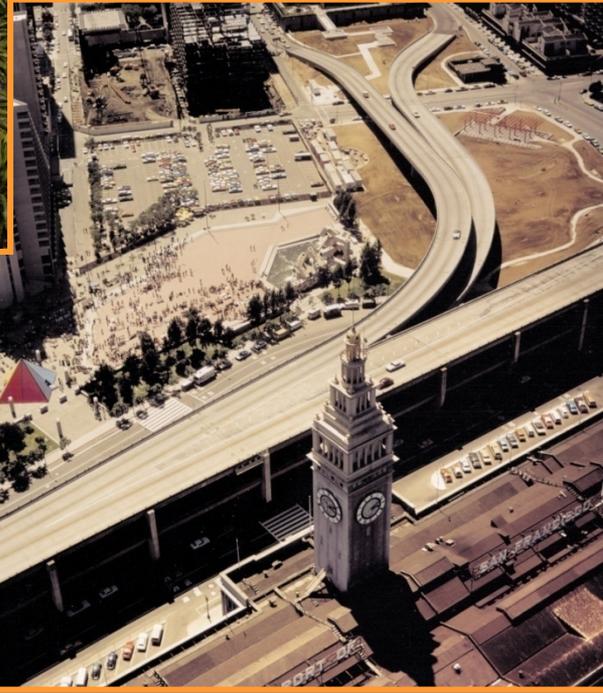
Embarcadero Freeway Before & After





Transbay Transit Center

Embarcadero Freeway





Embarcadero Freeway

- Construction began in 1953
- Expansion stopped in 1959
- Referendum in 1986 to demolish defeated 67.9% to 32.1%
- Loma Prieta Earthquake damaged structure on October 17, 1989
- Demolished in 1991
- Last segment of new Embarcadero Roadway completed in 2000



Program Milestones

- 2001 Formation of TJPA
- 2004 TJPA finalizes EIR process
- Sep. 2007 Design and Development Competition Winner Announced
- Dec. 2007 California Transportation Commission Approves Transfer of State Land Parcels to TJPA
- 2008 Construction of Temporary Terminal Begins
- May 2010 Transbay Receives \$400 Million in ARRA funding
- Aug. 2010 Construction of Transbay Transit Center Begins



METROPOLITAN
TRANSPORTATION
COMMISSION



Caltrans®



GOLDEN GATE BRIDGE
HIGHWAY & TRANSPORTATION DISTRICT

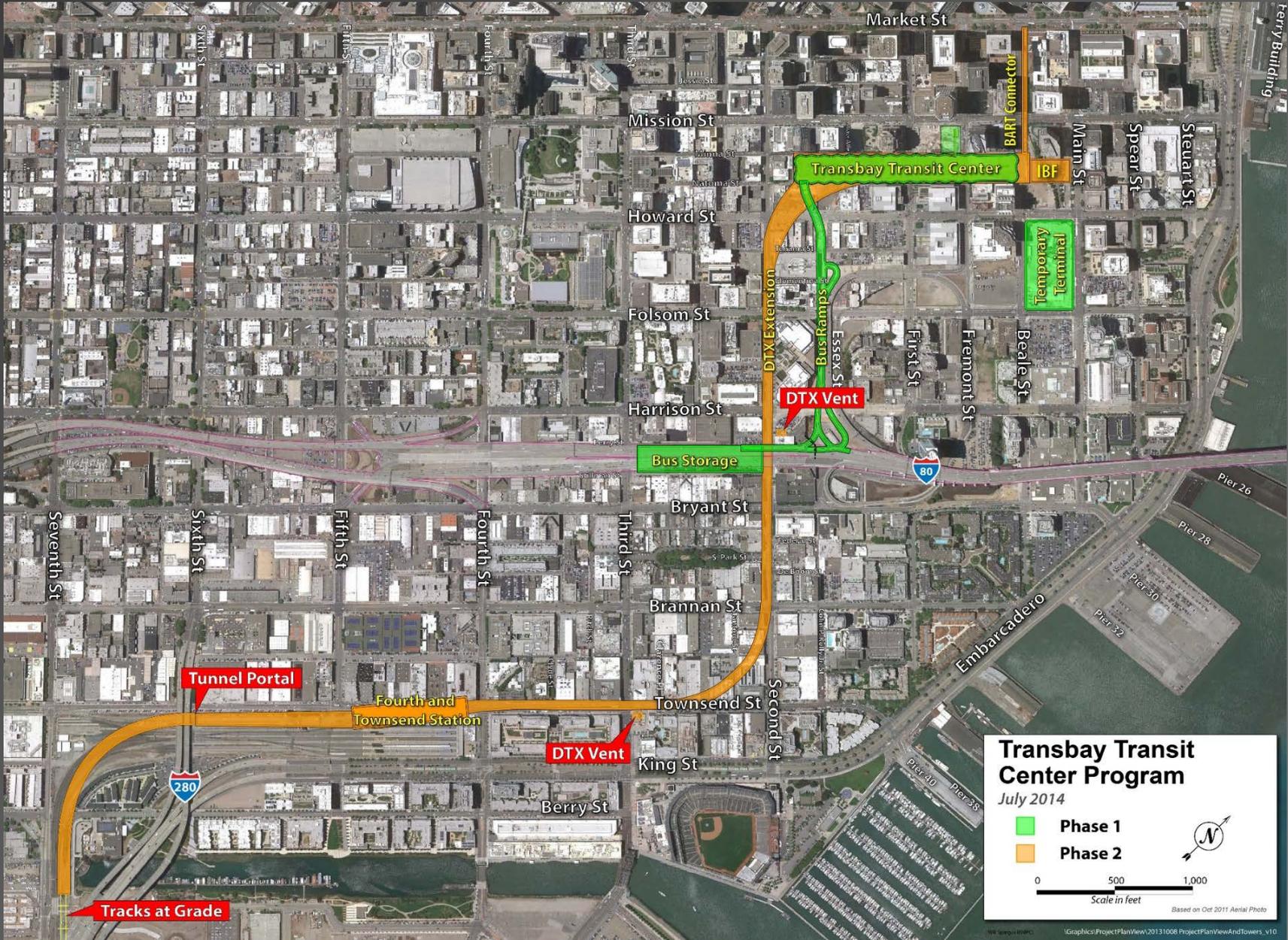
samTrans





Transbay Transit Center

Program Phases



Transbay Transit Center Program
July 2014

- Phase 1
- Phase 2

0 500 1,000
Scale in feet

Based on Oct 2011 Aerial Photo

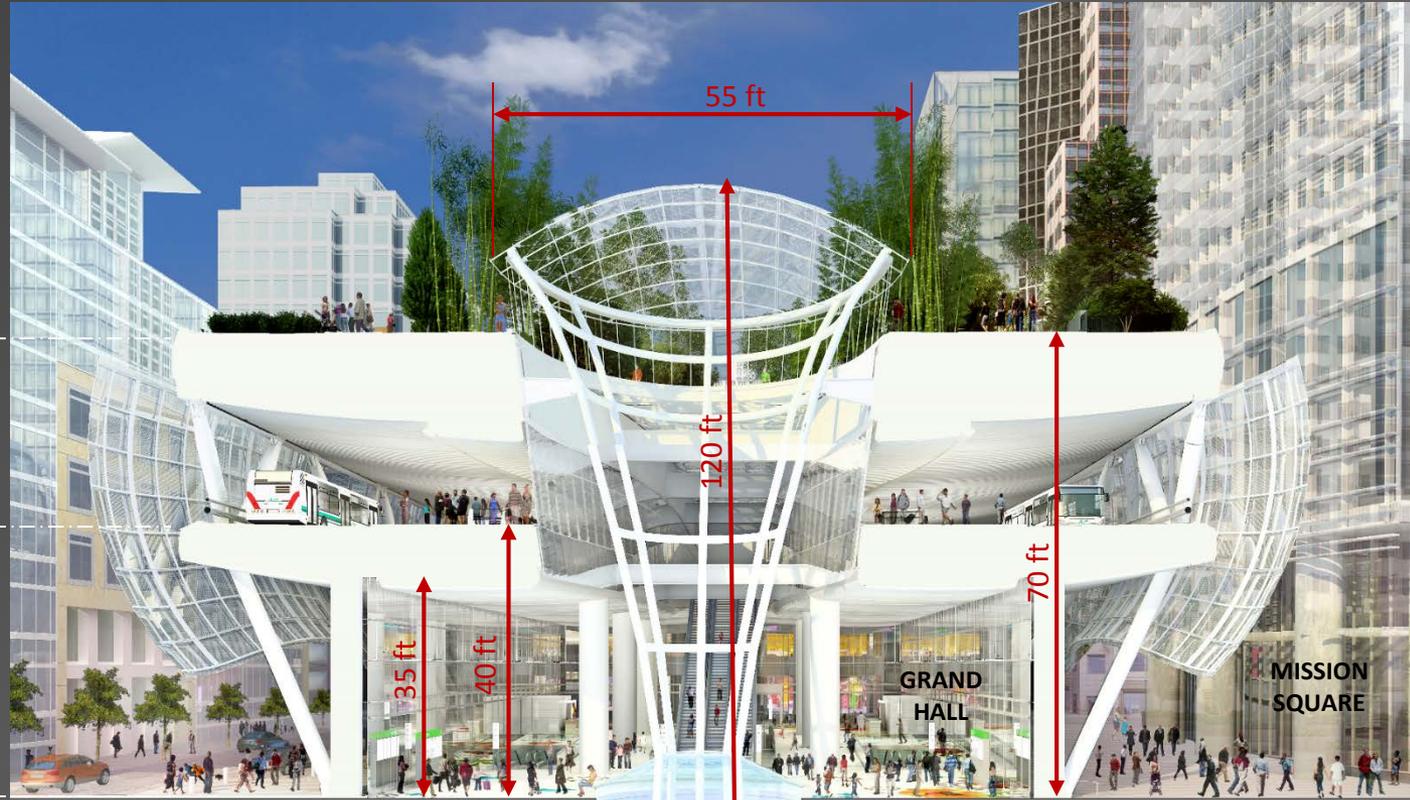


Transbay Transit Center

Program Phase 1 Transit Center



Building Section



PARK LEVEL

BUS DECK LEVEL

GROUND LEVEL

LOWER CONCOURSE LEVEL

TRAIN PLATFORM LEVEL

RETAIL

PUBLIC CONCOURSE & WAITING AREA

RETAIL

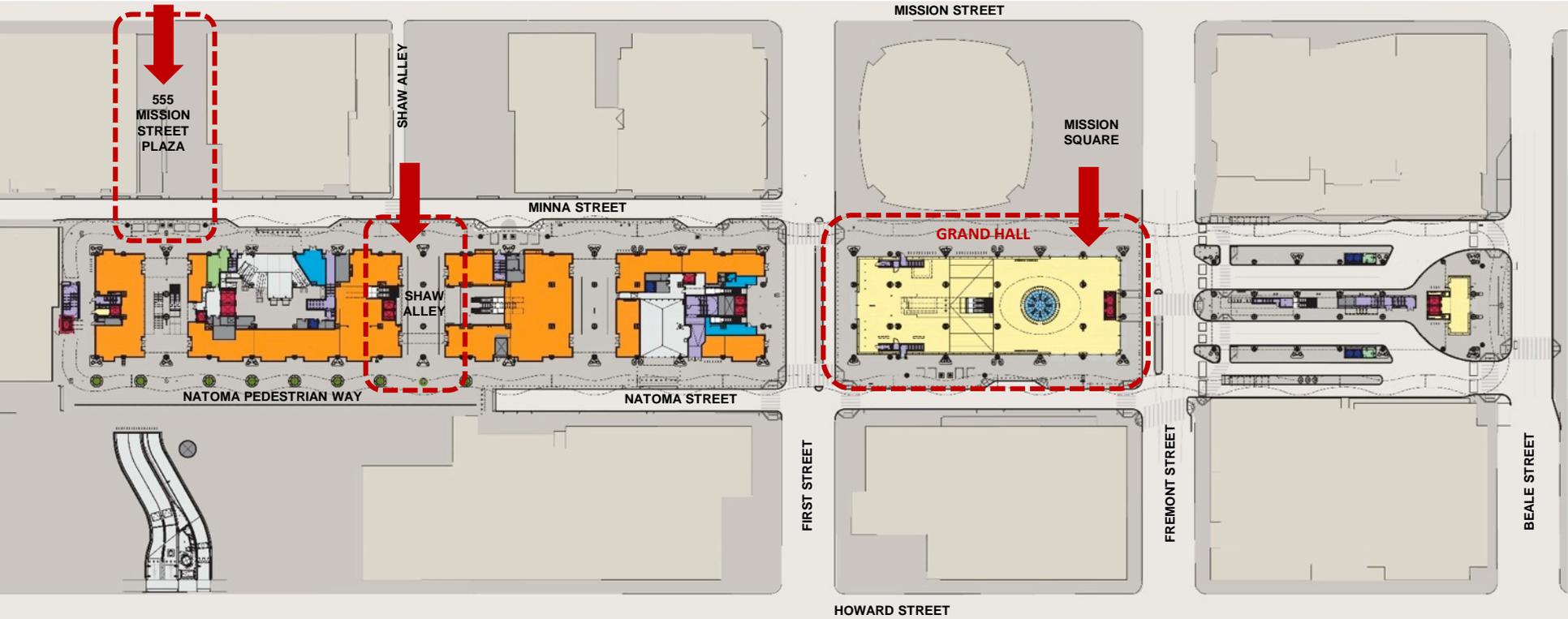
CHSRA
PLATFORM

CHSRA
PLATFORM

CALTRAIN
PLATFORM

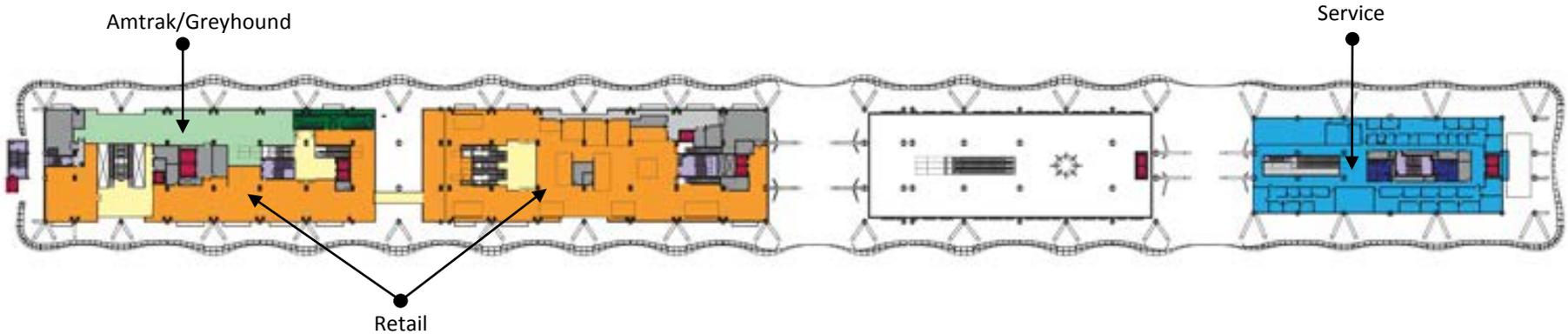
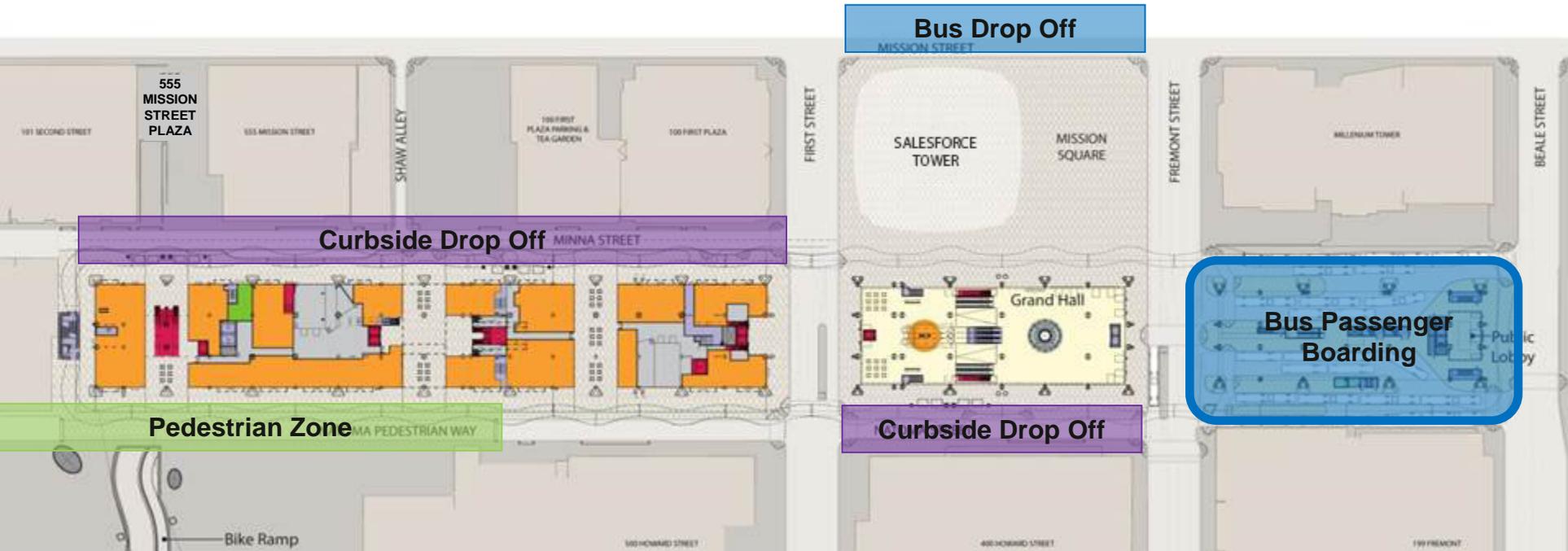


Transbay Transit Center



Total Building Area: Over 1 million SF
Total Retail Area: Over 100,000 SF

Ground & Second Levels



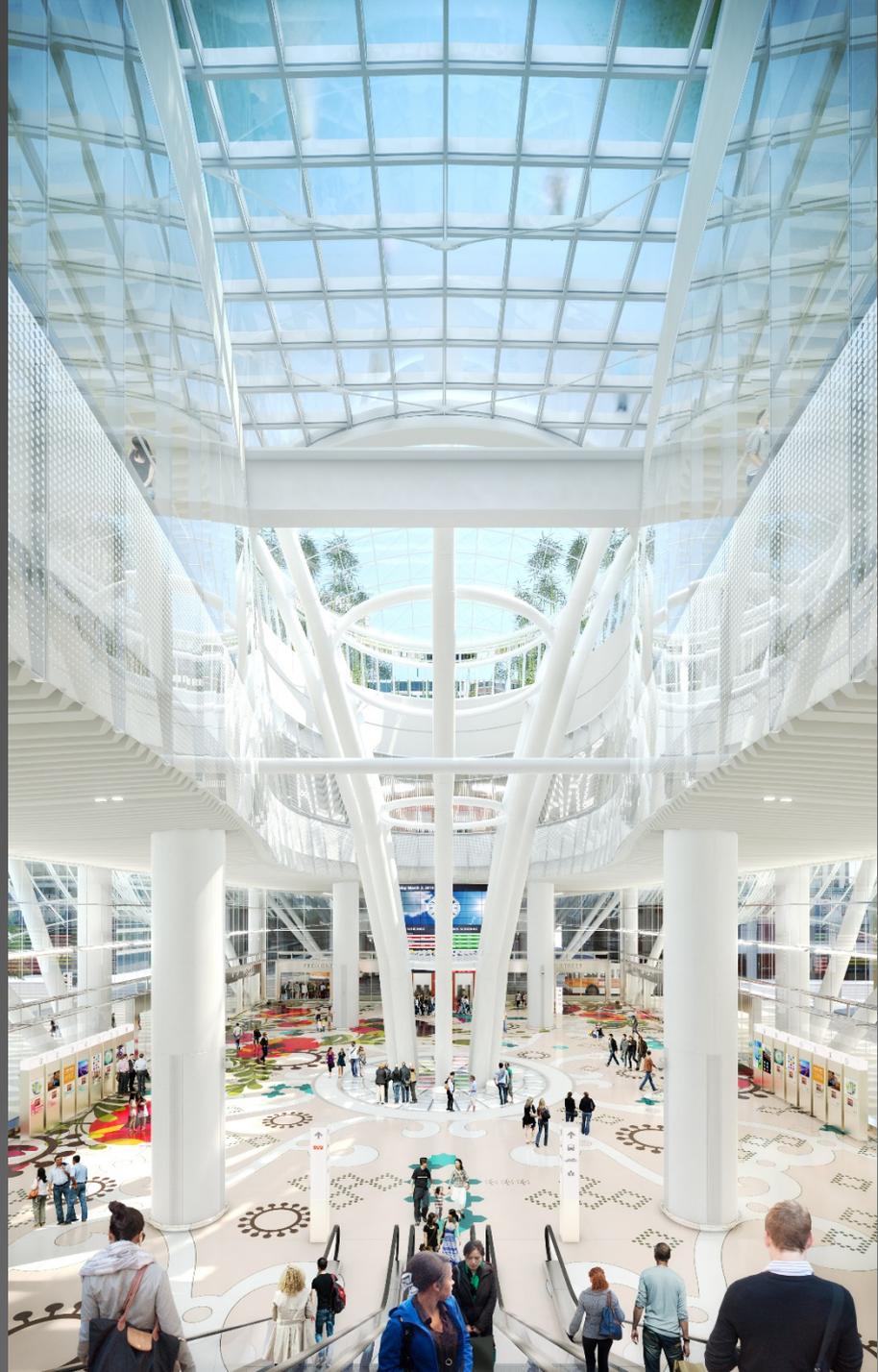


Transbay Transit Center





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Transbay Transit Center





Transbay Transit Center





Transbay Transit Center





Union Square

2.4 Acres



Yerba Buena Gardens

2.2 Acres



South Park

0.8 Acres



Transbay Transit Center Rooftop

Approx. 5 acres

1445 feet

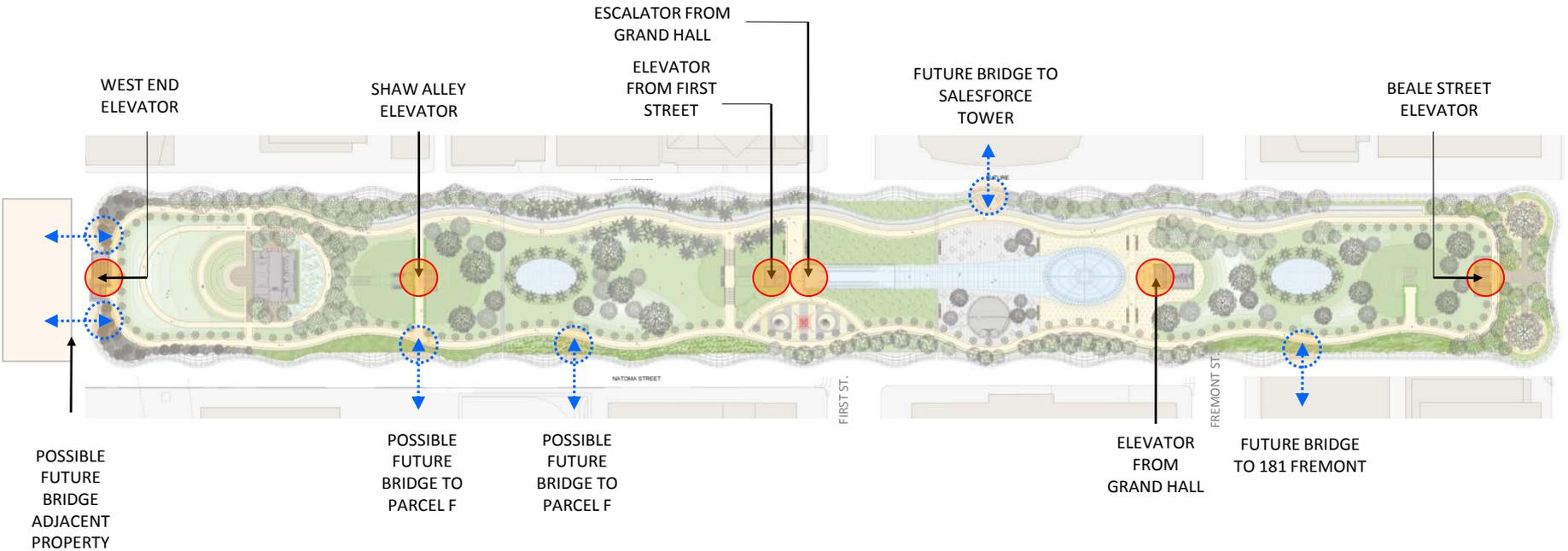


175 feet





Rooftop Park





Transbay Transit Center



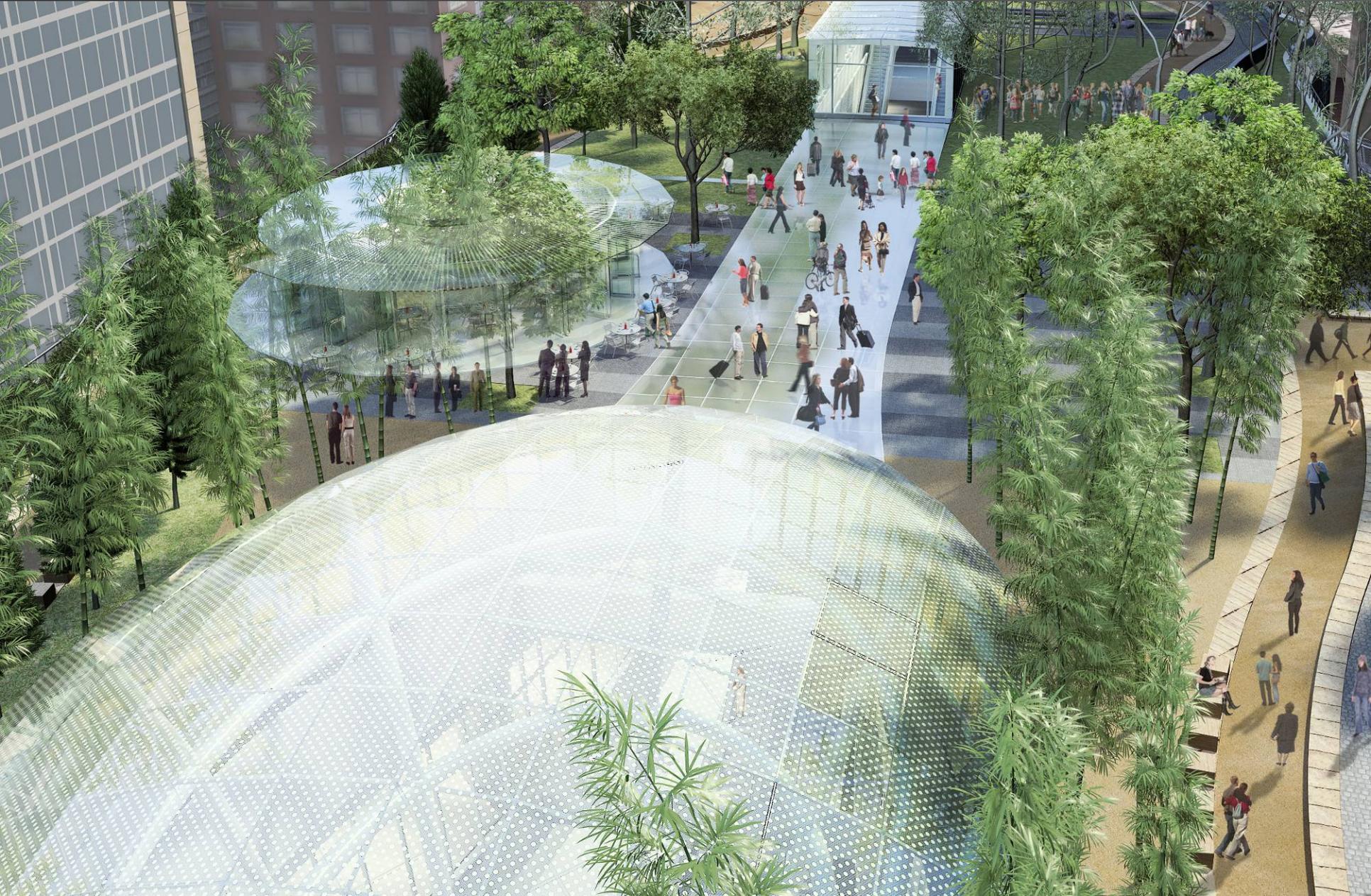


Transbay Transit Center





Transbay Transit Center





Transbay Transit Center

Bus Ramp Alignment





Transbay Transit Center

View of Former Transbay Terminal and Ramp



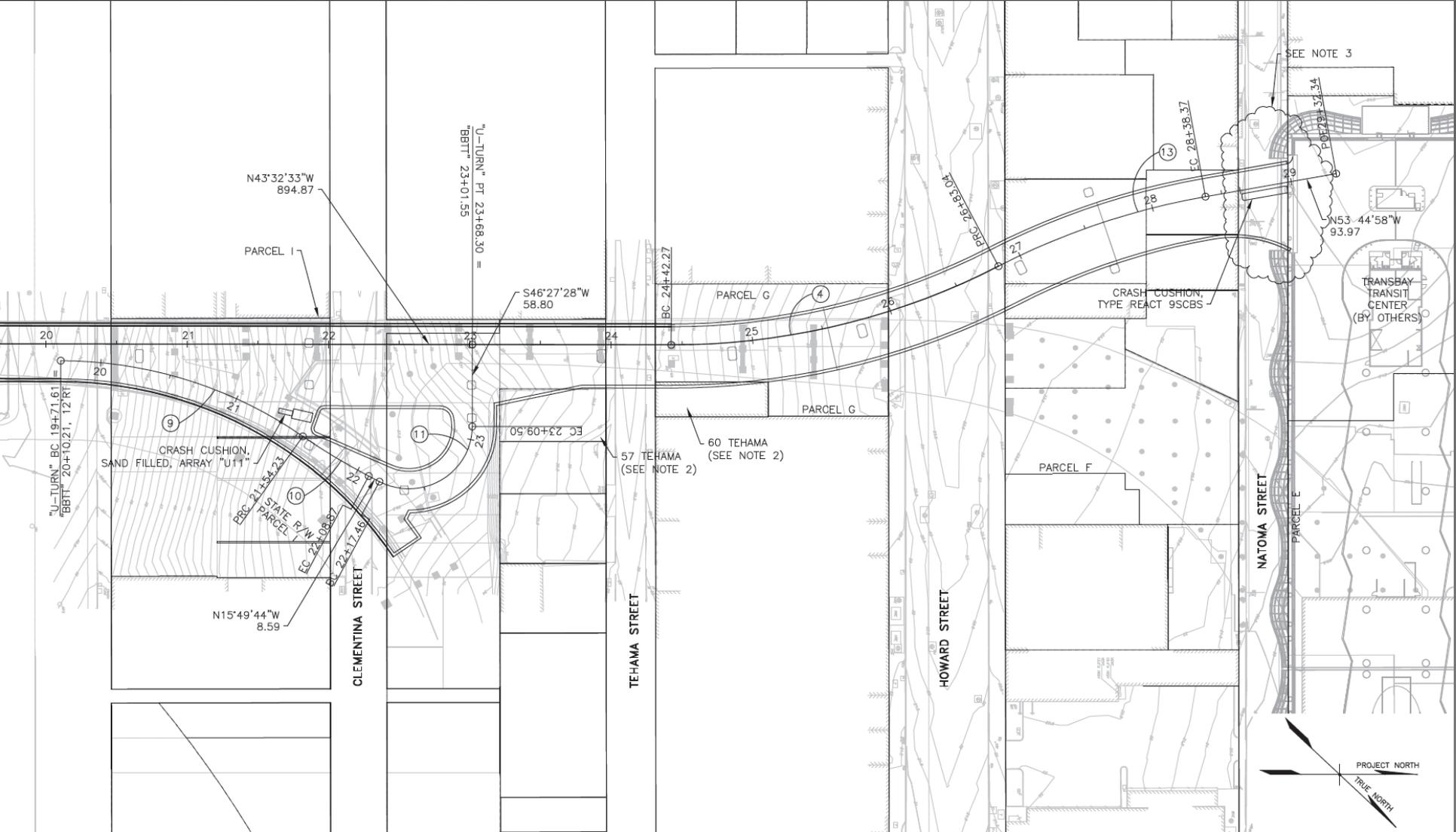


Southern Alignment



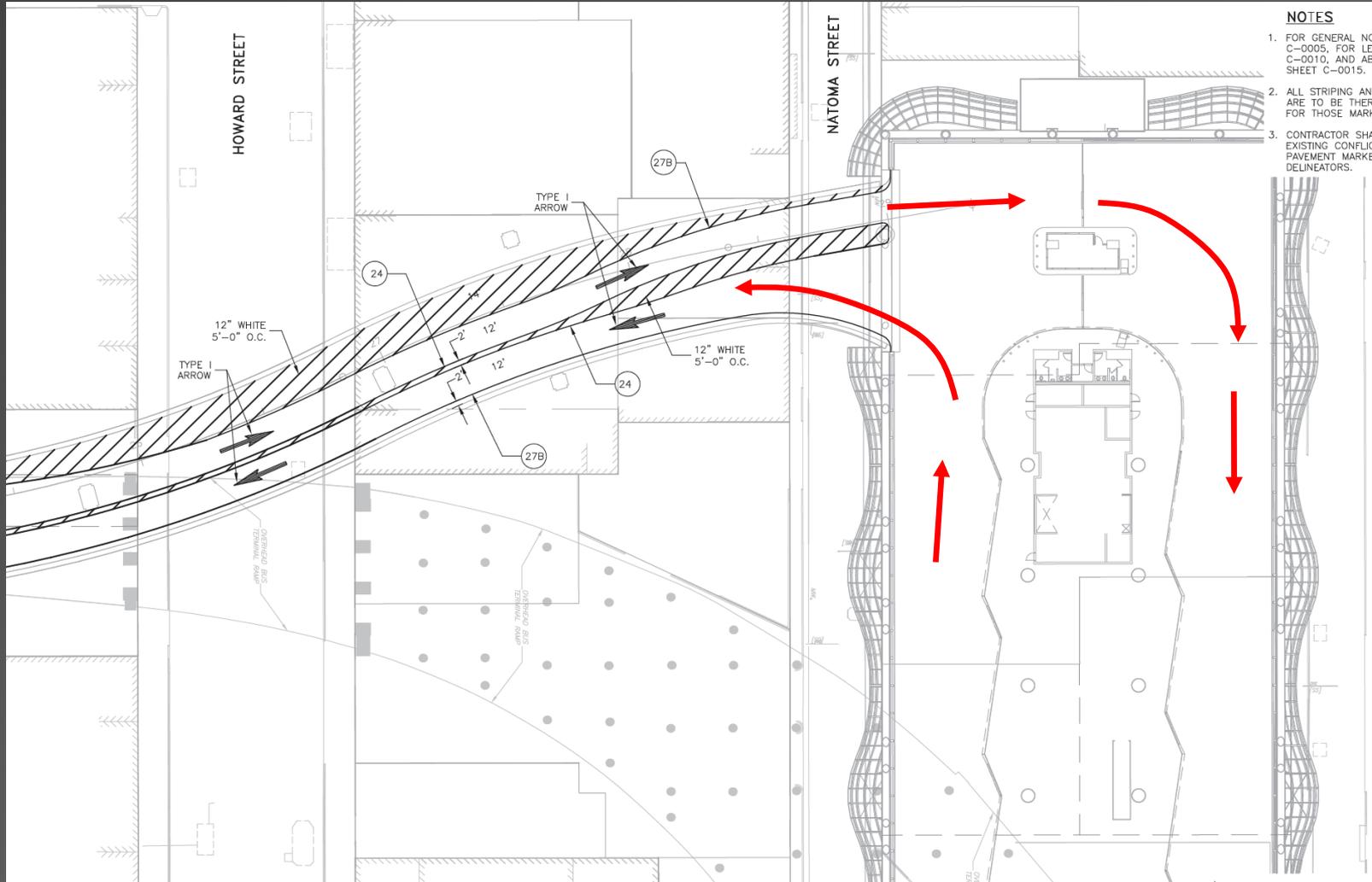


Northern Bus Ramp Geometry



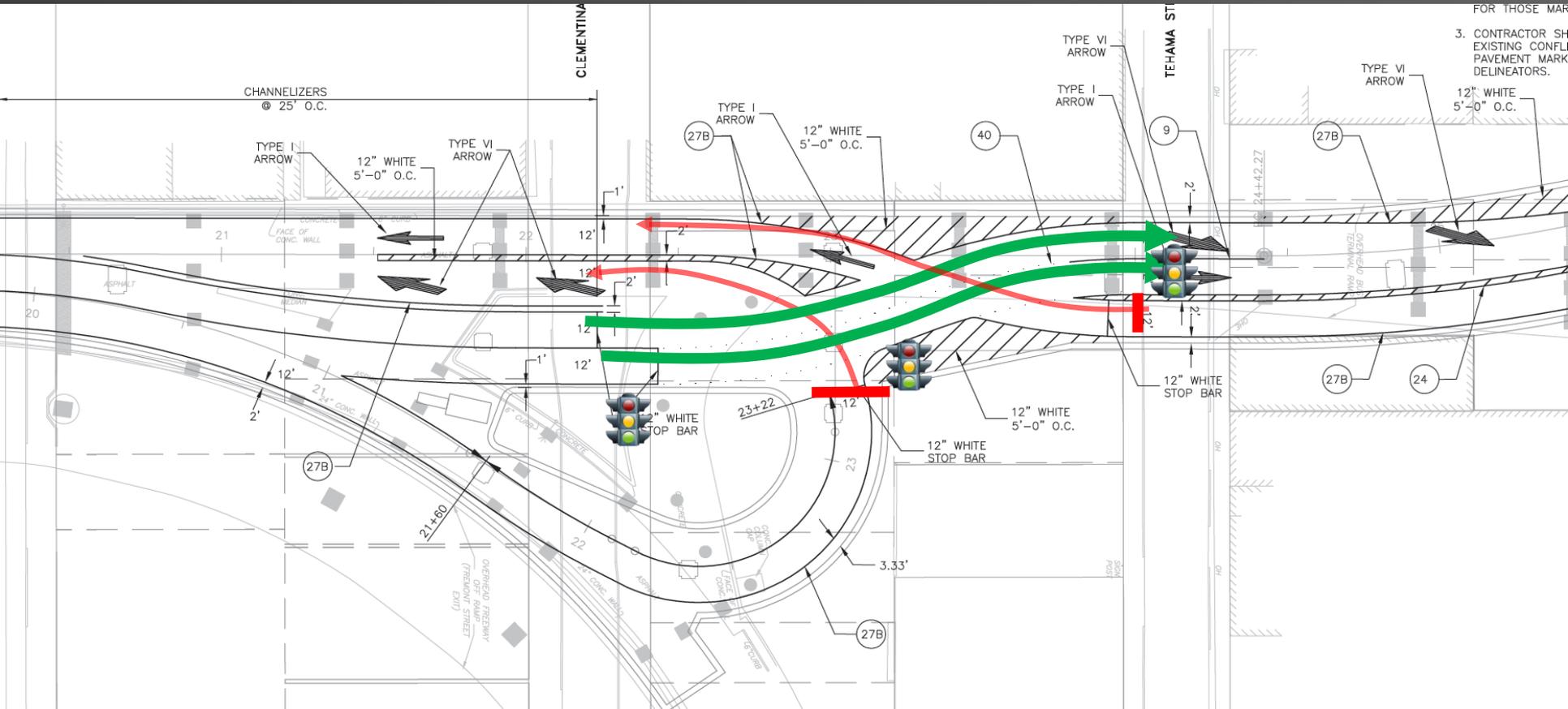


Bus Deck Entrance



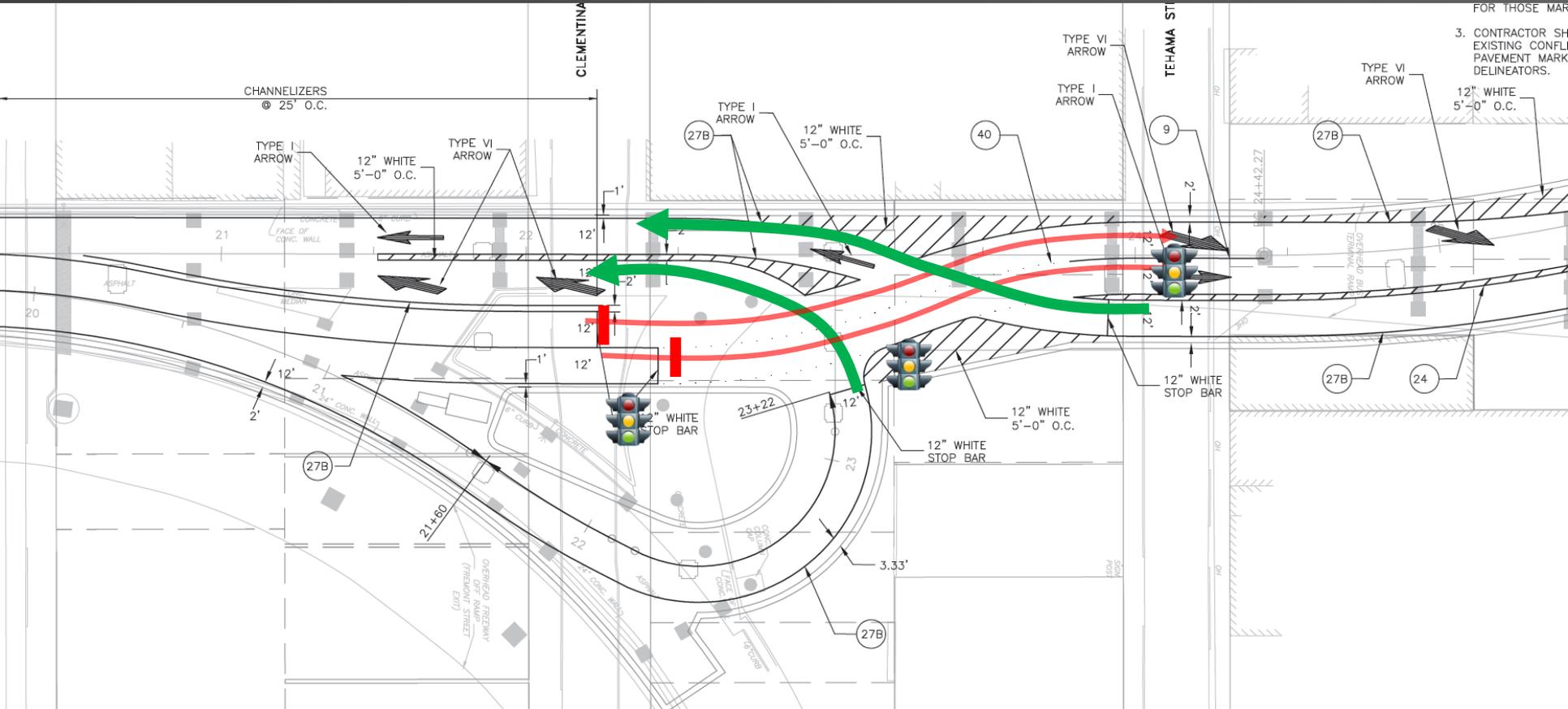


Crossover & Turn-Back





Crossover & Turn-Back



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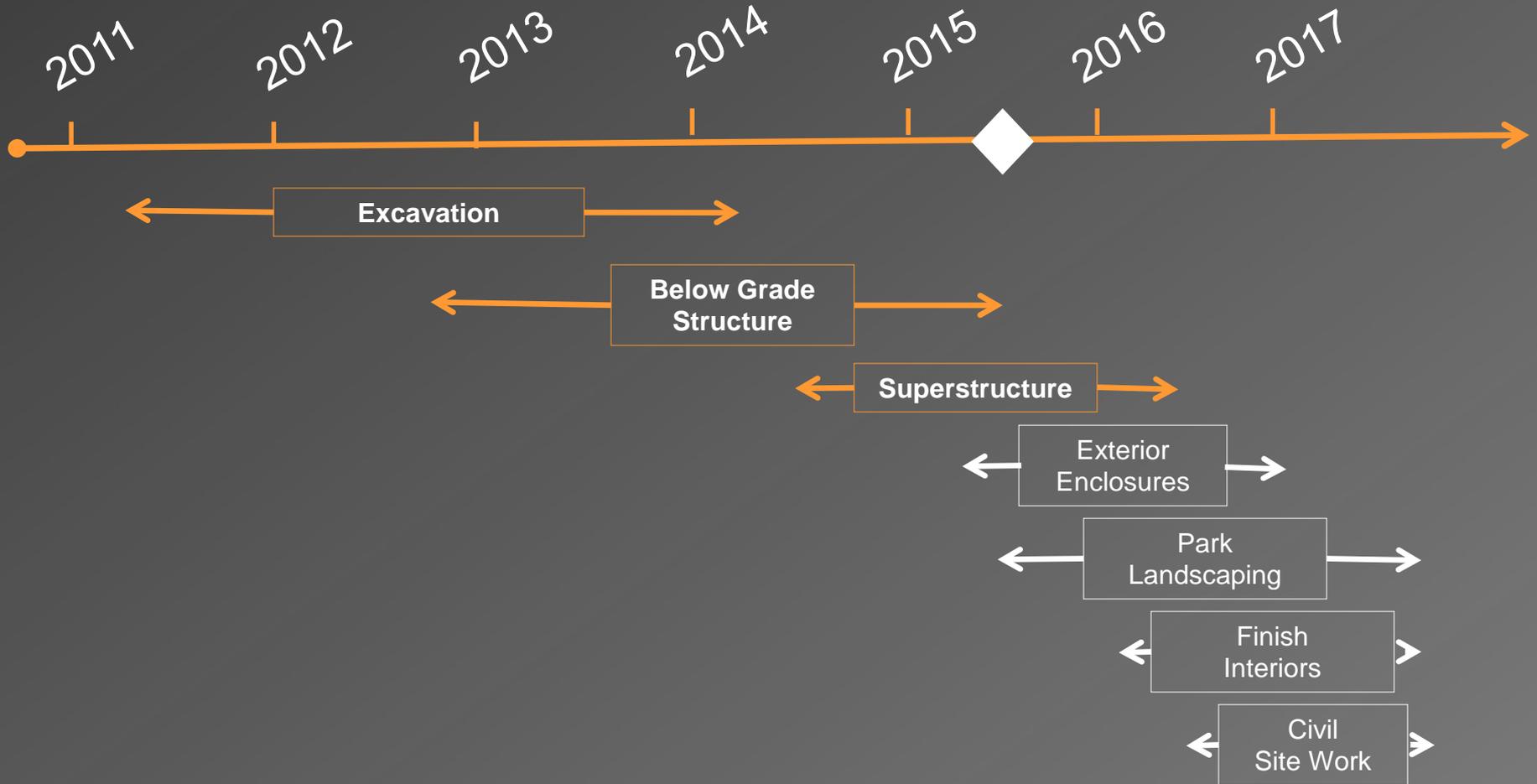
Transbay Transit Center

Construction Status



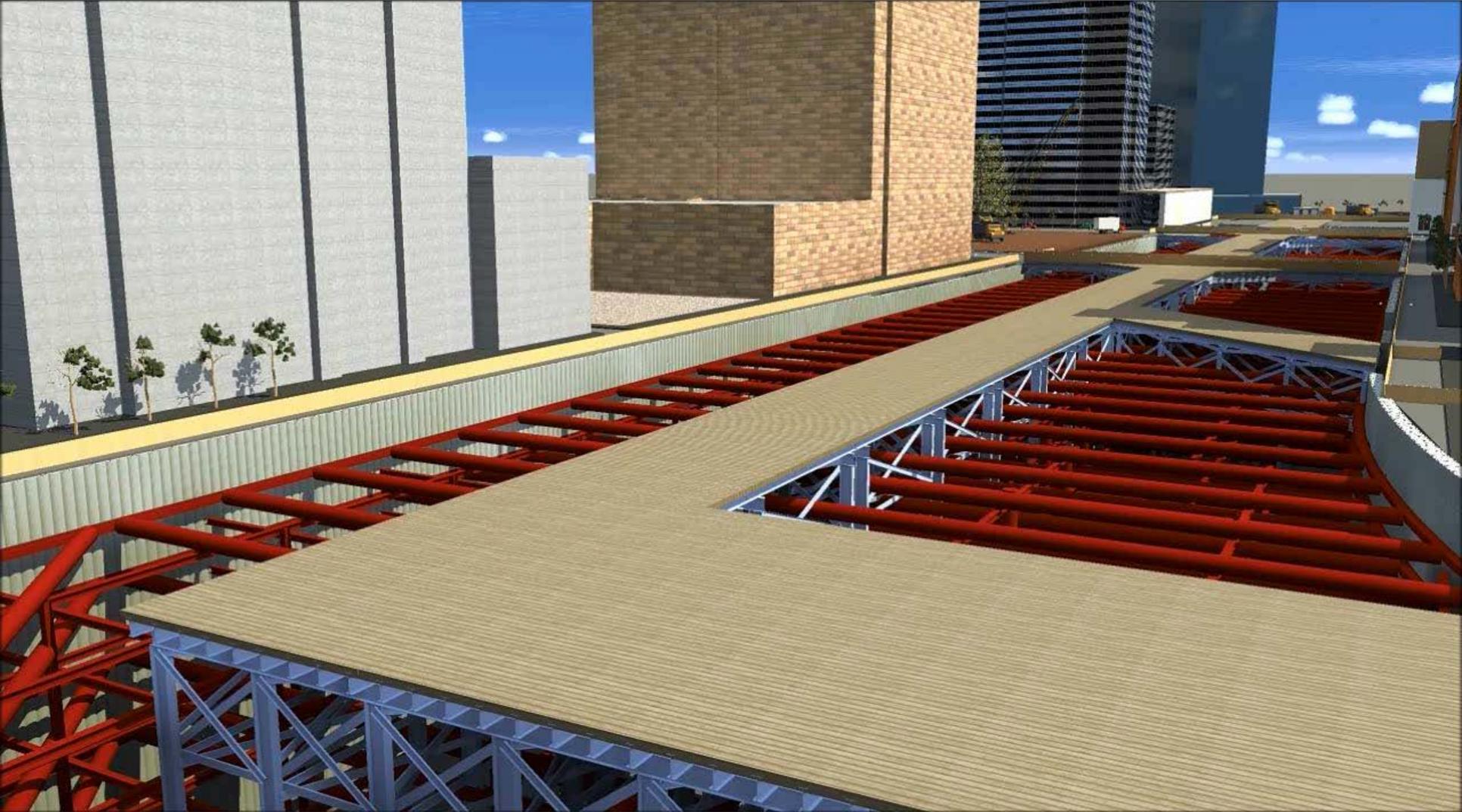
Transbay Transit Center

Construction Timeline Summary





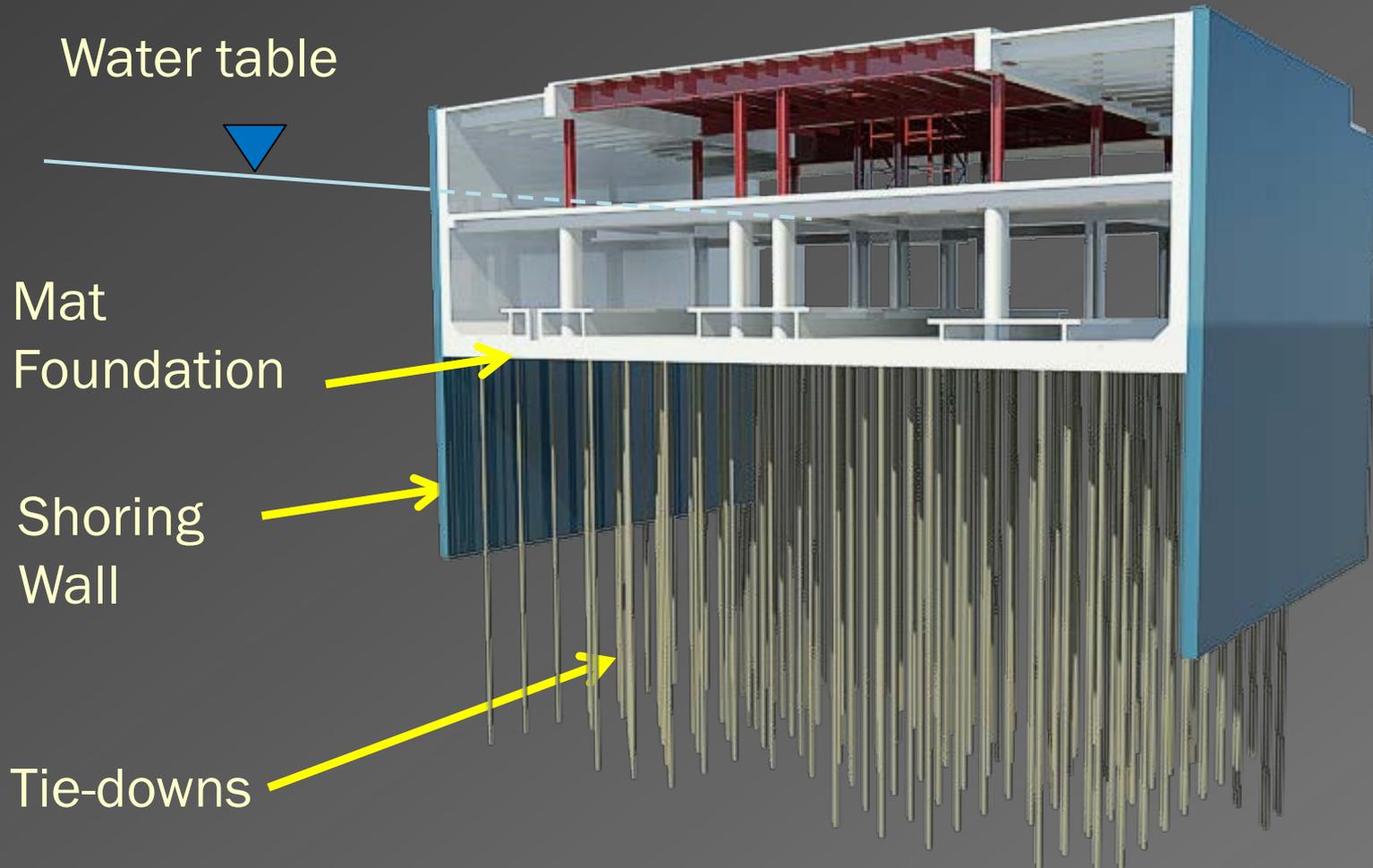
Transbay Transit Center





Transbay Transit Center

Shoring, Foundation & Train Box





Steel Superstructure



Basket Column Assembly

First Steel Column

First steel column (orange) installed on November 7, 2014



Transbay Transit Center





Bus Ramp

- Construction contract awarded to Shimmick Construction at May TJPA Board Meeting
- Demolition of existing underground structures is complete
- Drilled and poured all 29 CIDH piles (2'- 9' diameter)
- Coordination with Caltrans is in progress near the Sterling Street Substation
- Completed installation of barrette pile foundations for cable-stayed bridge pylon

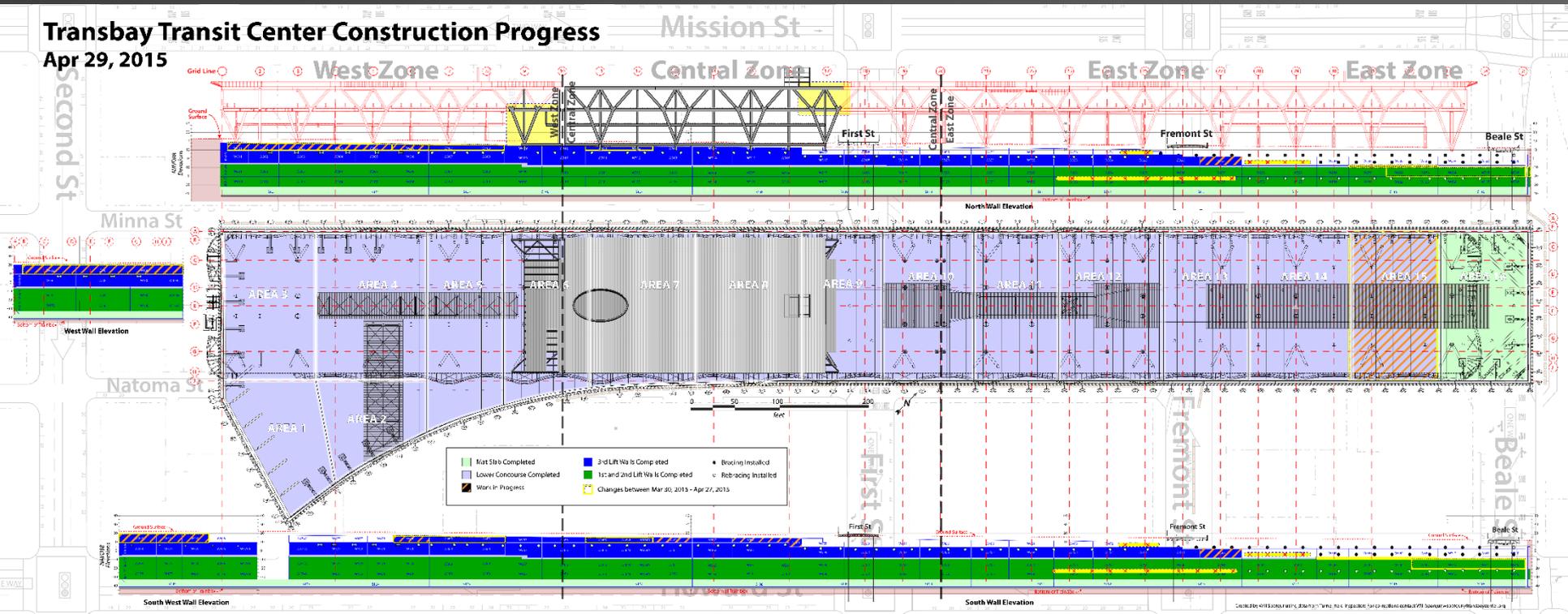




Transbay Transit Center

Transbay Transit Center Construction Progress

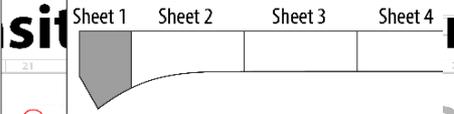
Apr 29, 2015



Transbay Transit Center Construction Progress

Apr 27, 2015

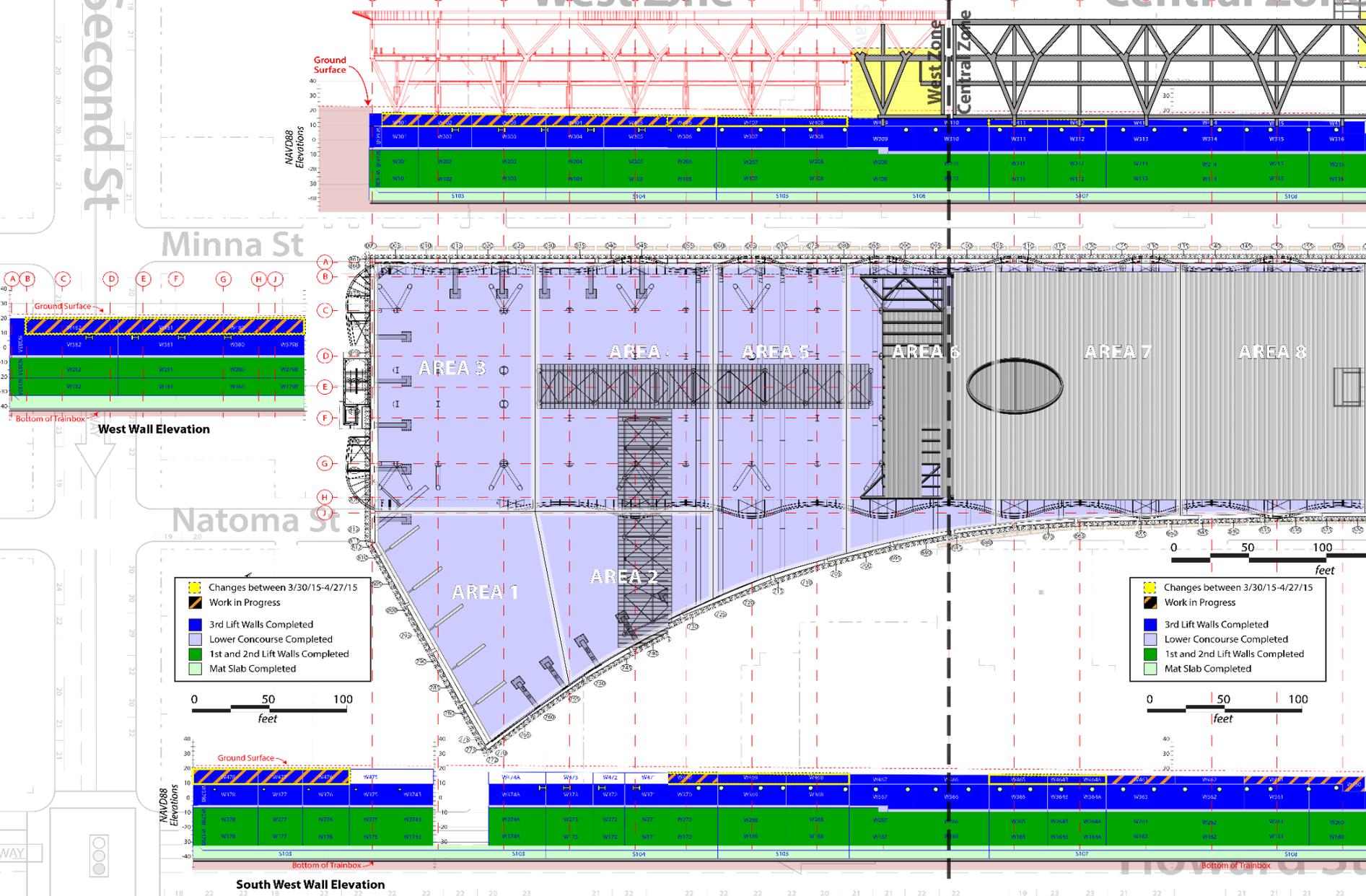
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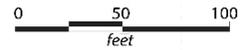
Transbay Transit Center Construction Progress

Apr 27, 2015

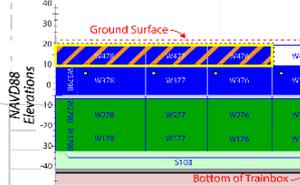
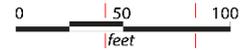
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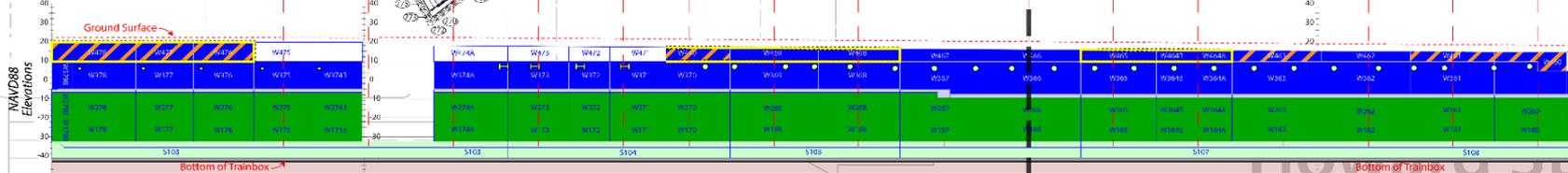
- Changes between 3/30/15-4/27/15
- Work in Progress
- 3rd Lift Walls Completed
- Lower Concourse Completed
- 1st and 2nd Lift Walls Completed
- Mat Slab Completed



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West Wall Elevation



Transbay Transit Center Construction Progress

Apr 27, 2015

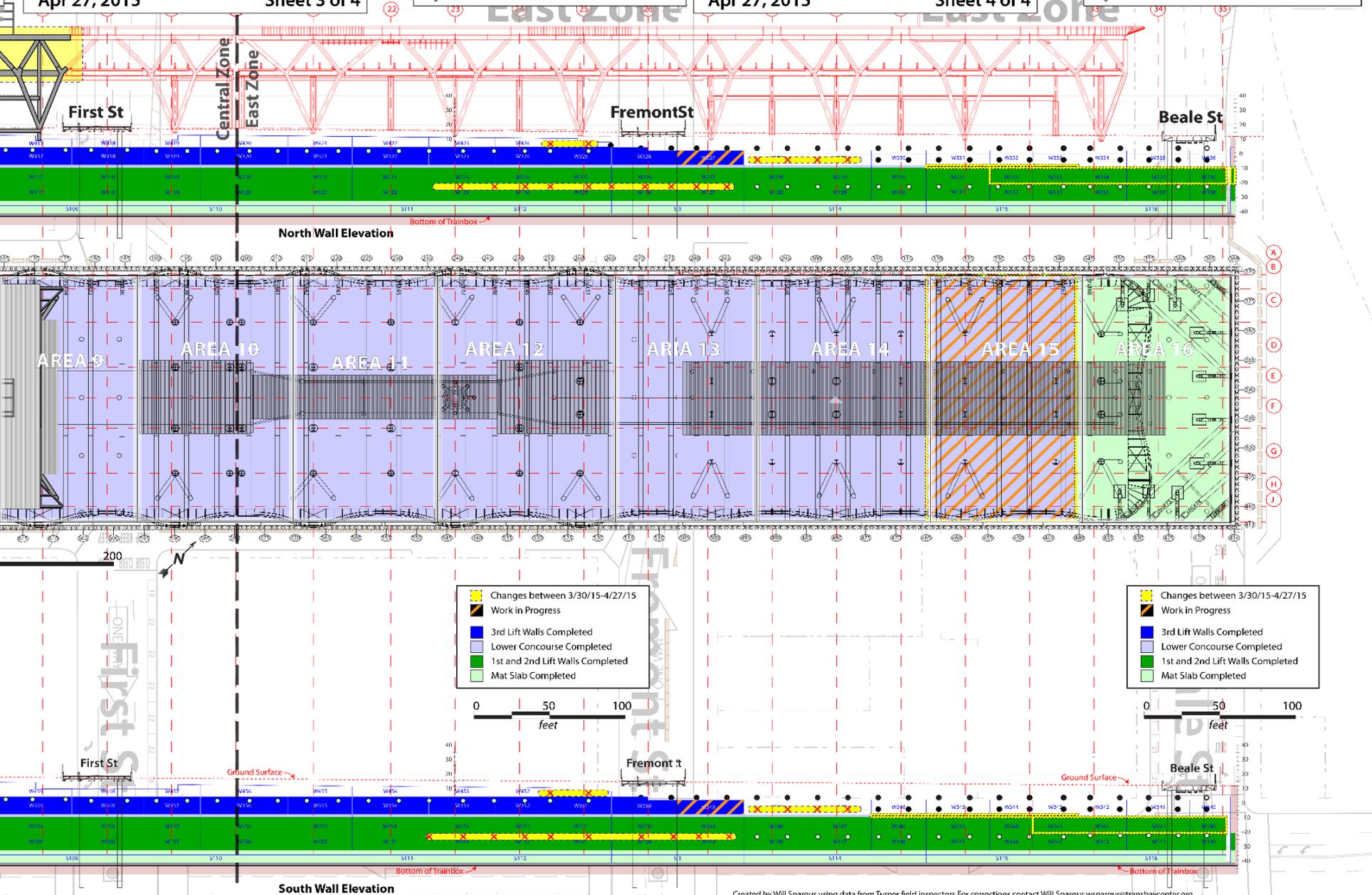
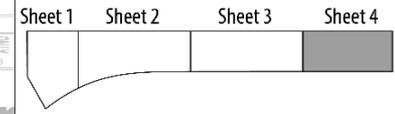
Sheet 3 of 4



Transbay Transit Center Construction Progress

Apr 27, 2015

Sheet 4 of 4





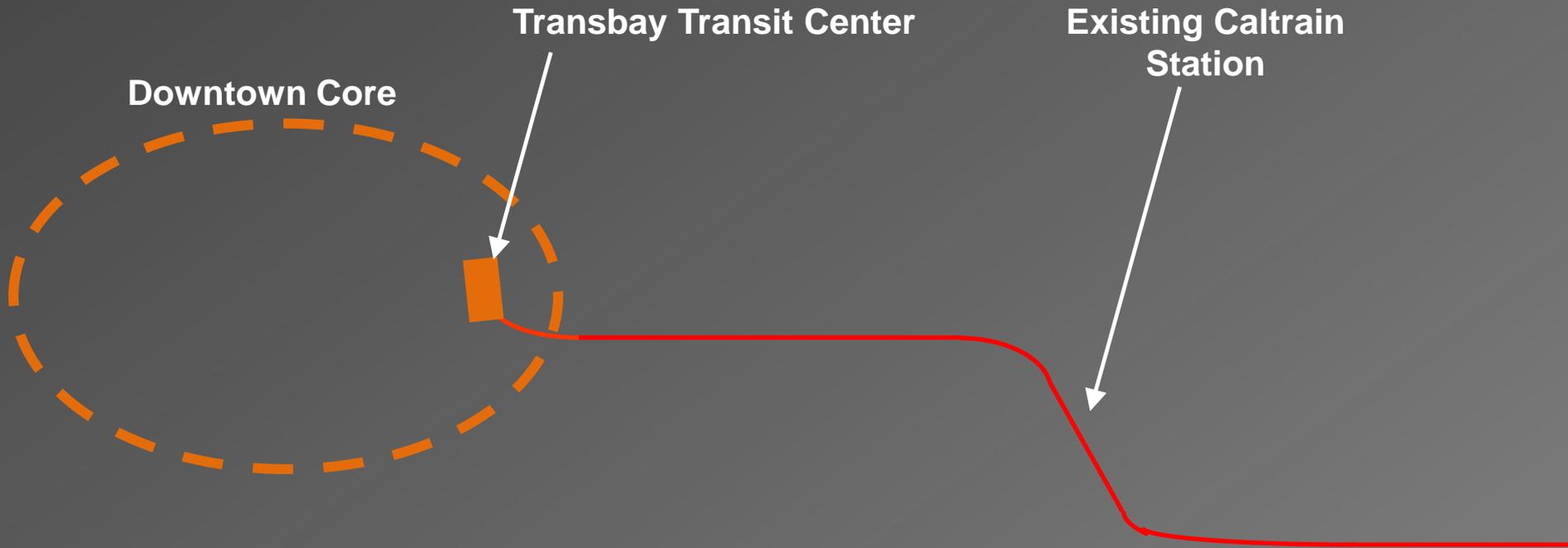
Transbay Transit Center

Program Phase 2
Downtown Rail Extension
(DTX)



Transbay Transit Center

DTX Scope

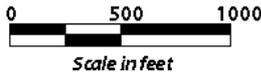
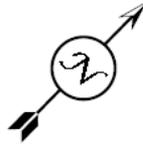




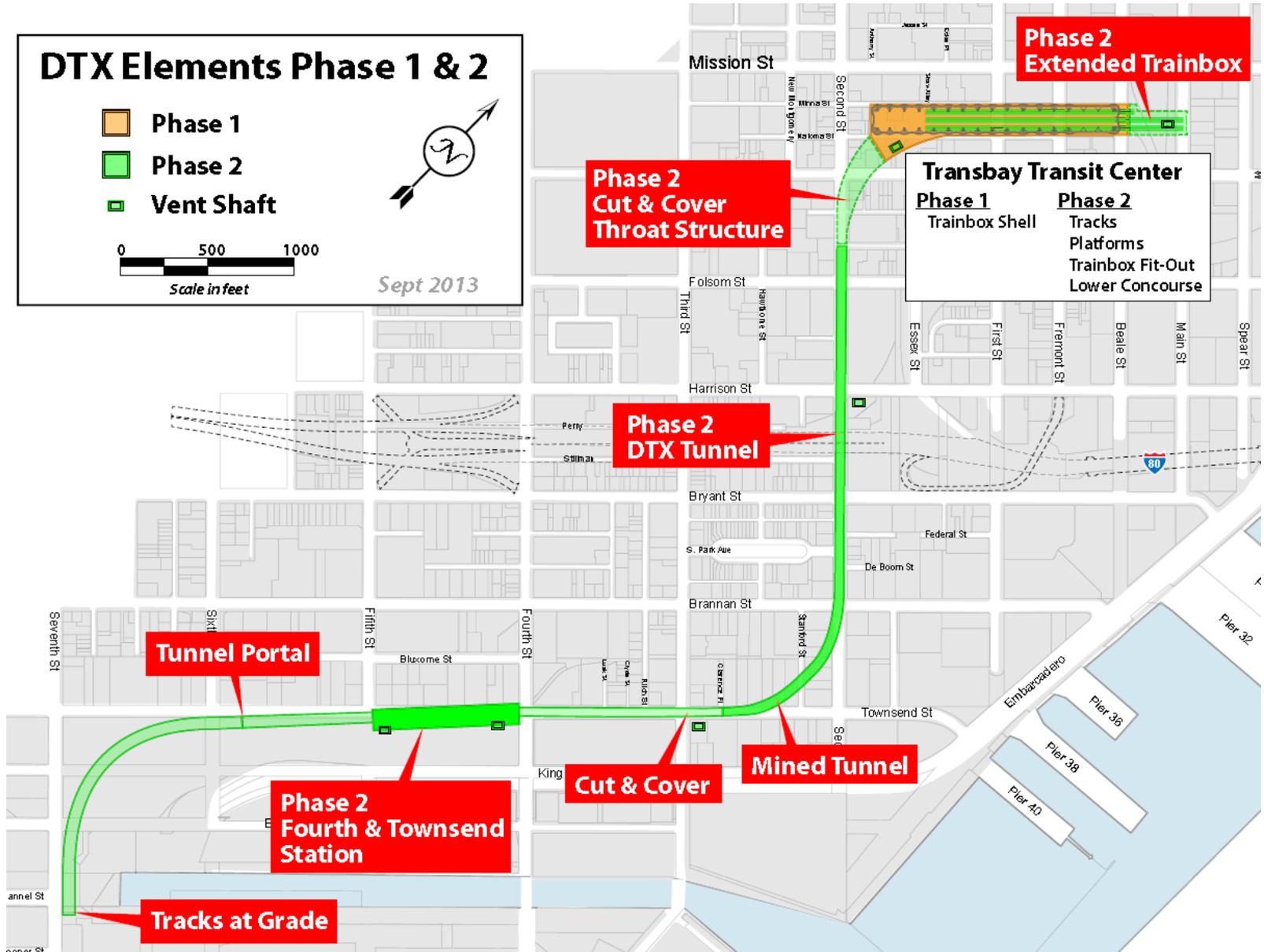
DTX Elements

DTX Elements Phase 1 & 2

-  Phase 1
-  Phase 2
-  Vent Shaft



Sept 2013

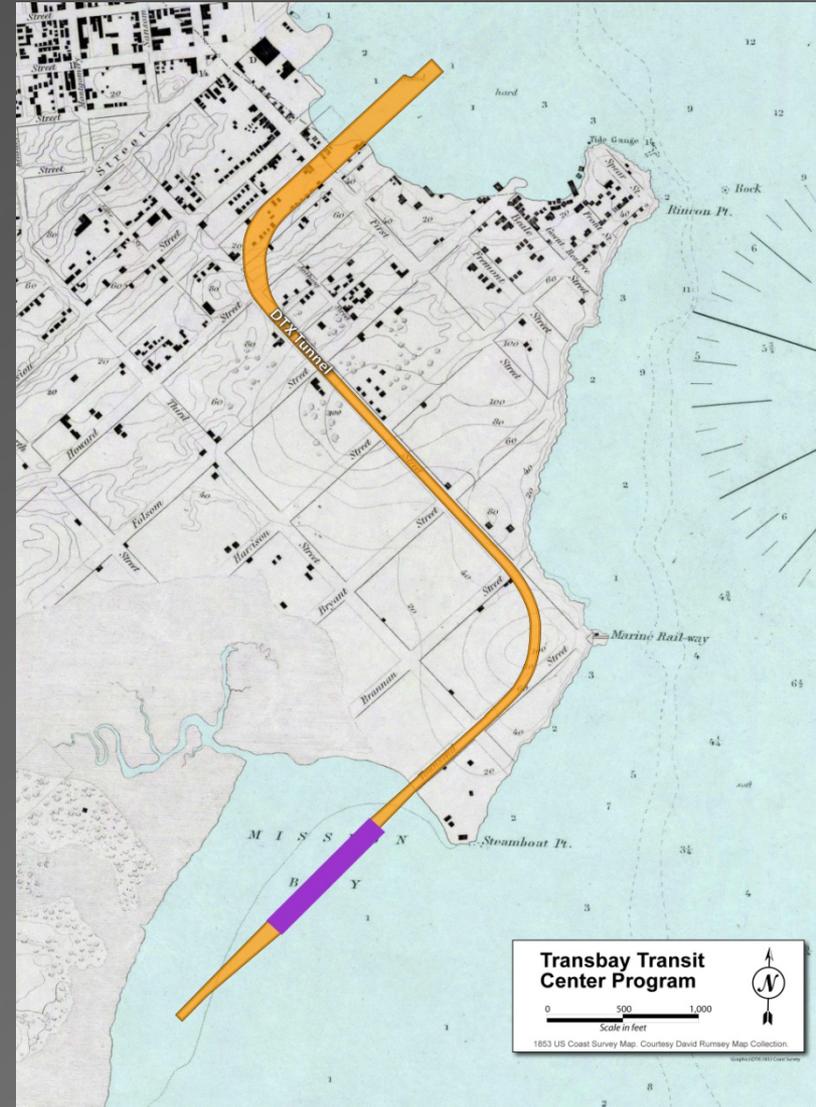
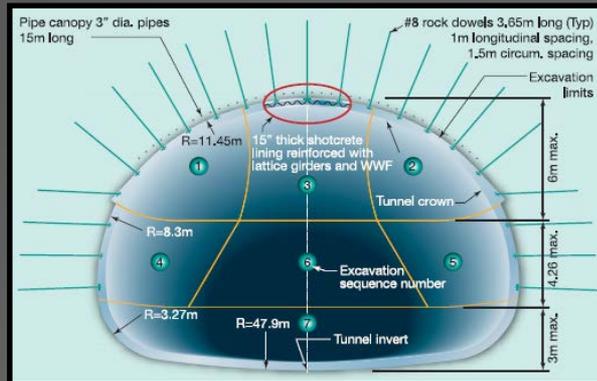
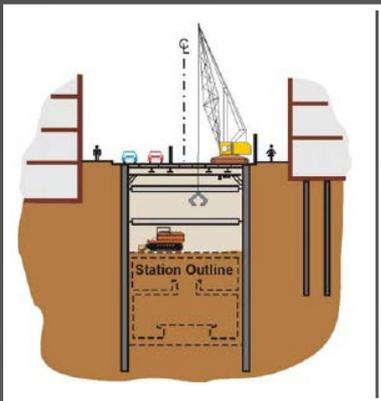


Transbay Transit Center	
Phase 1	Phase 2
Trainbox Shell	Tracks
	Platforms
	Trainbox Fit-Out
	Lower Concourse



Tunneling Methods

- Cut and Cover excavation in areas of soft bay fill
- Sequential Excavation in more competent soils
- TBM impractical for 3-track alignment and short mined tunnel length (3,200 feet)

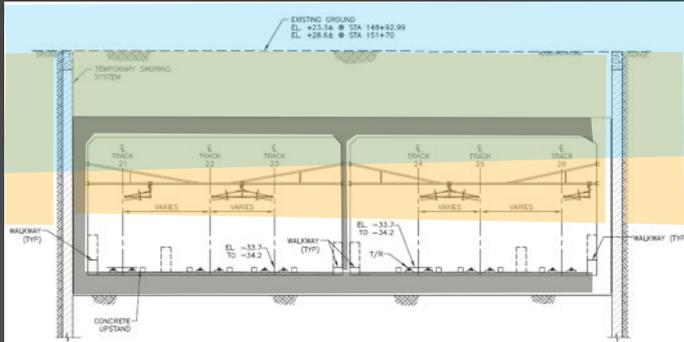


Transbay Transit Center Program
 Scale in feet
 1853 US Coast Survey Map. Courtesy David Rumsey Map Collection

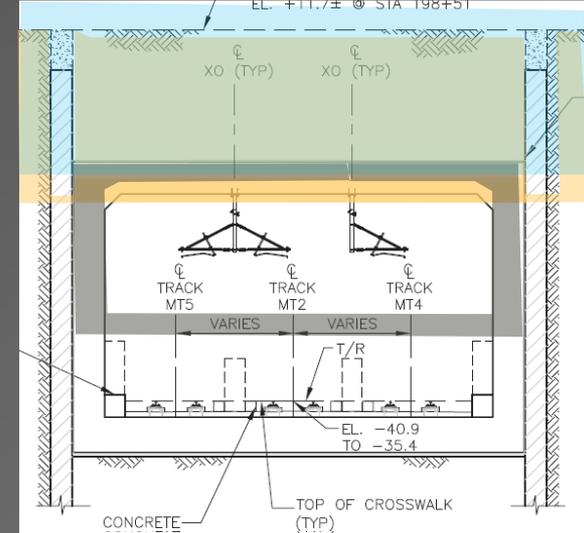


Cut-and-Cover Throat Structure

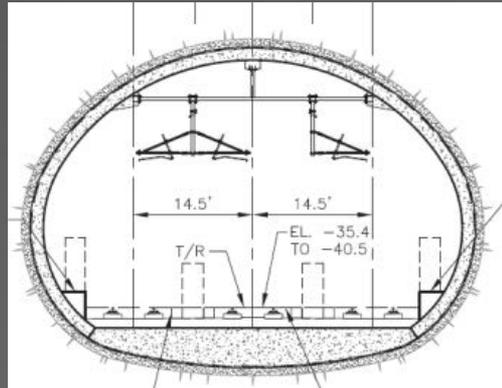
Narrows from six to three tracks



Cut-and-Cover in Townsend Street Narrows from three to two tracks



Mined Tunnel (sequential excavation method) Three tracks



** Also includes rail systems, trackwork and utility relocations*

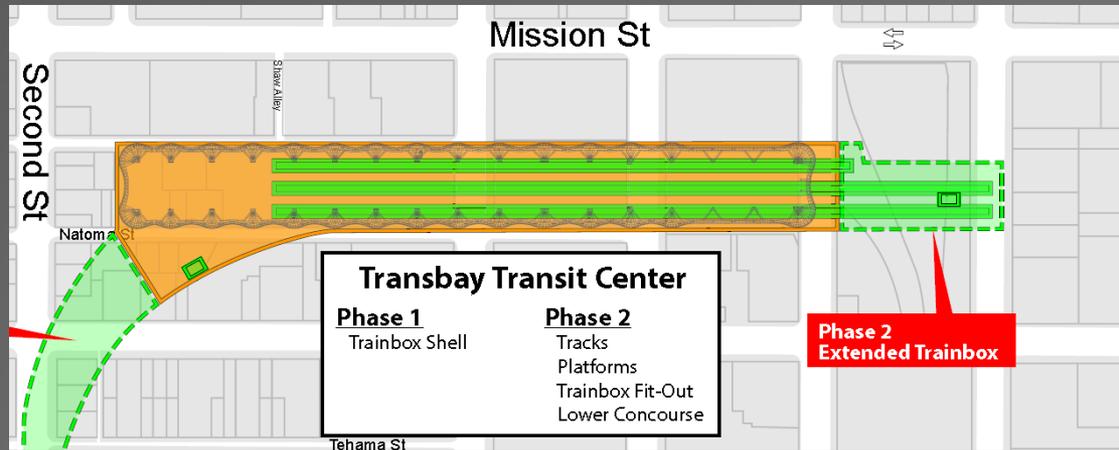
Transit Center Building Station Fit-out:

- Six tracks
- Three center platforms
- Lower Concourse facilities
- West ventilation shaft



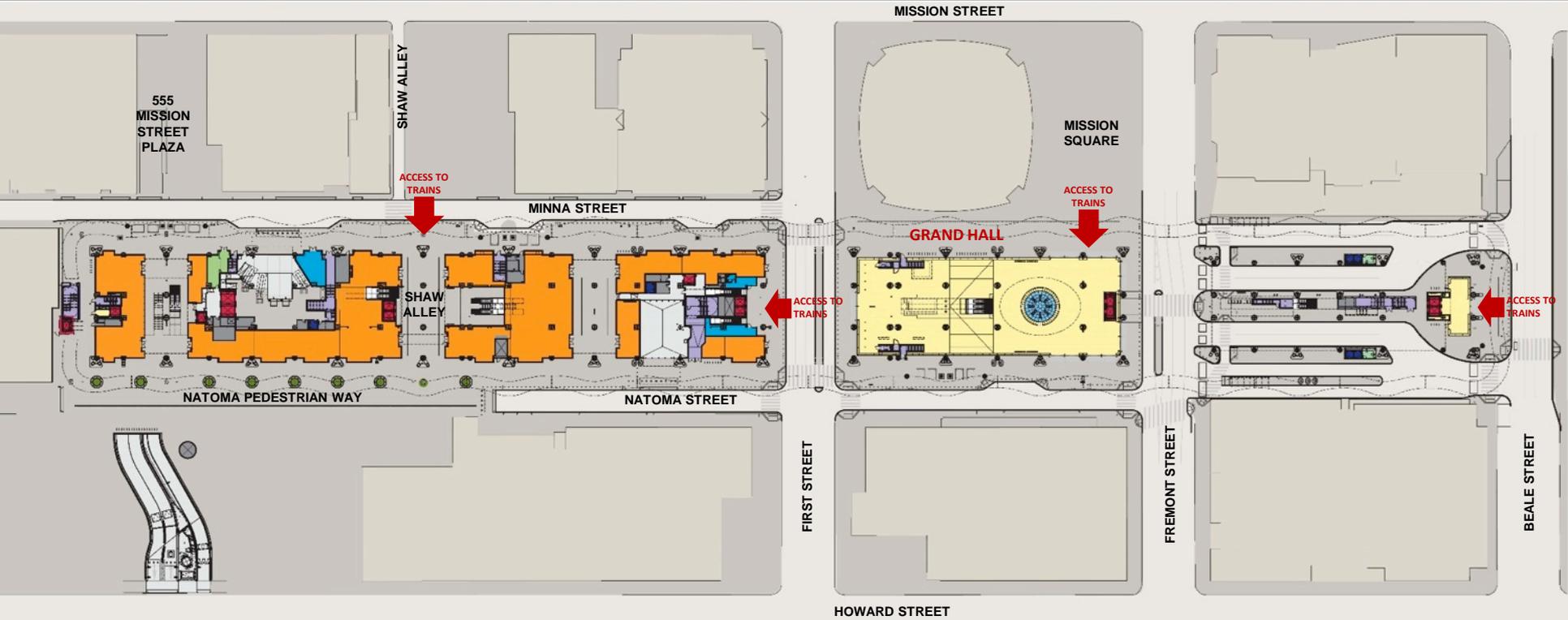
Train Box Extension:

- Underground extension of train box to accommodate full length high-speed trains
- East ventilation shaft
- Intercity Bus Facility above

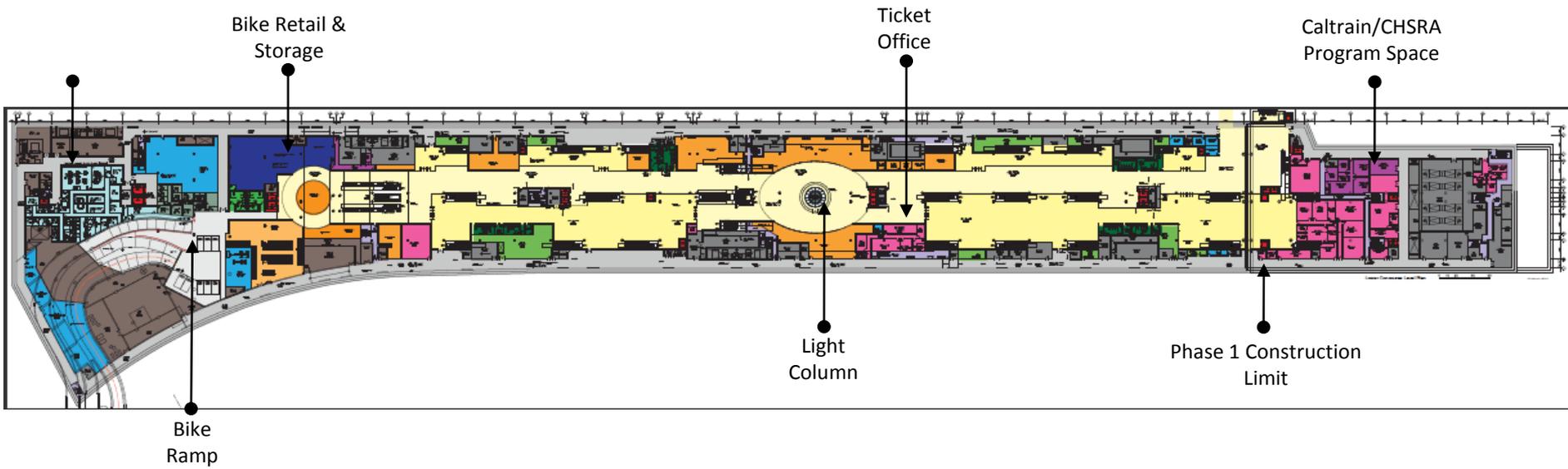




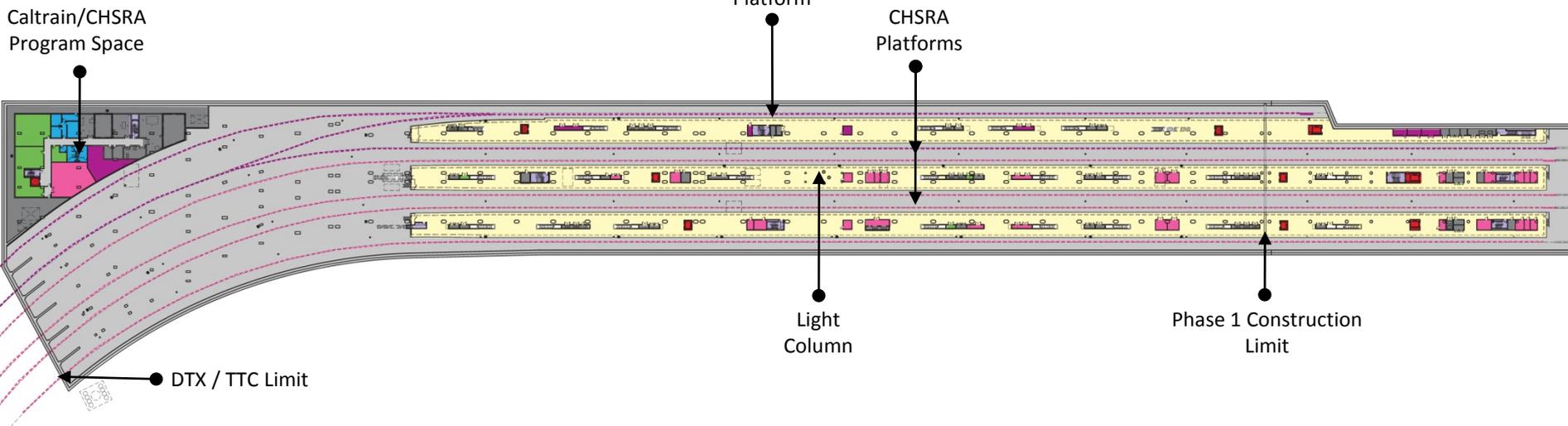
Transbay Transit Center



Total Building Area: Over 1 million SF
Total Retail Area: Over 100,000 SF



Lower Concourse Level



Train Platform Level



Transbay Transit Center





Transbay Transit Center



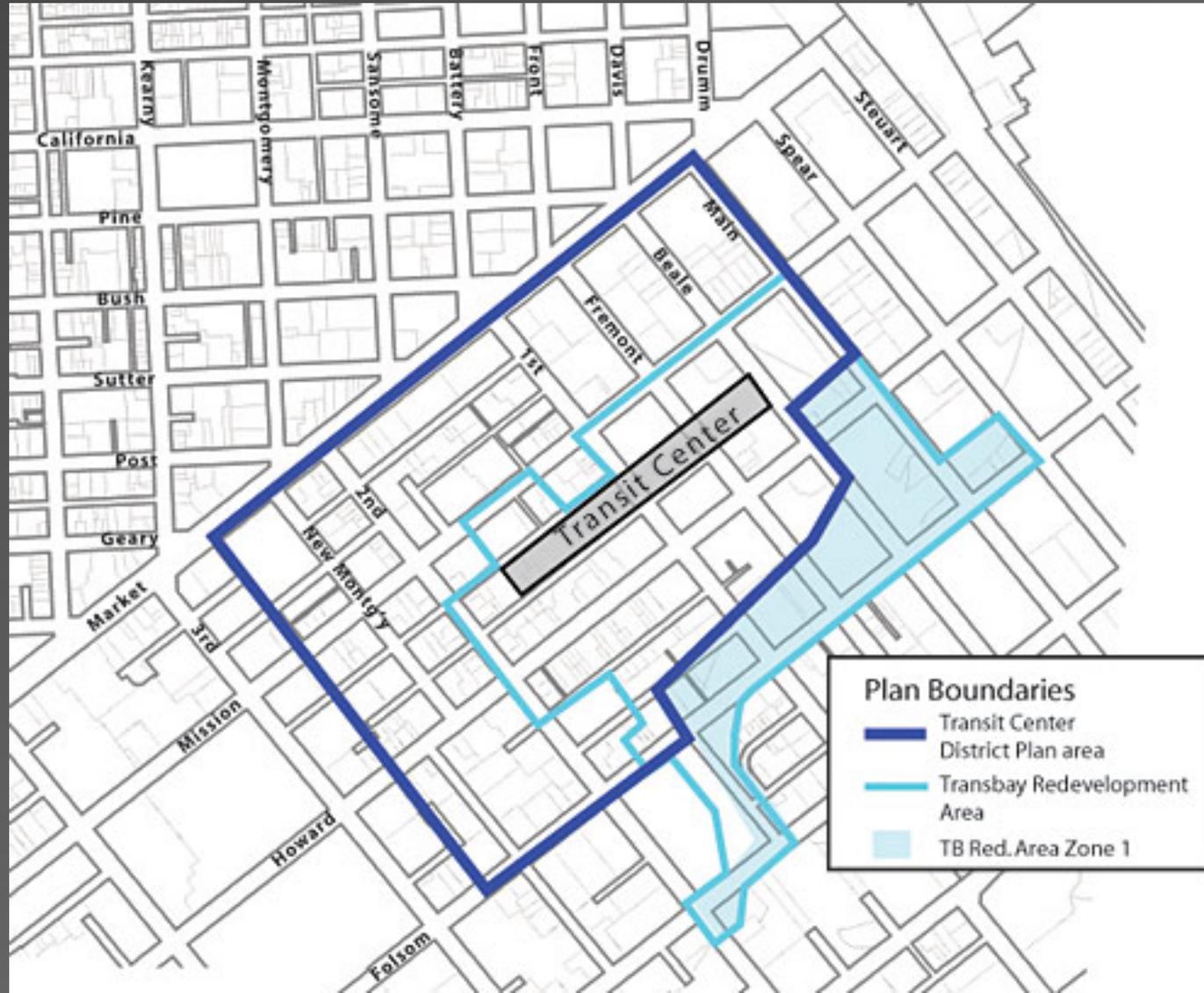


Transbay Transit Center

Planning Overlay

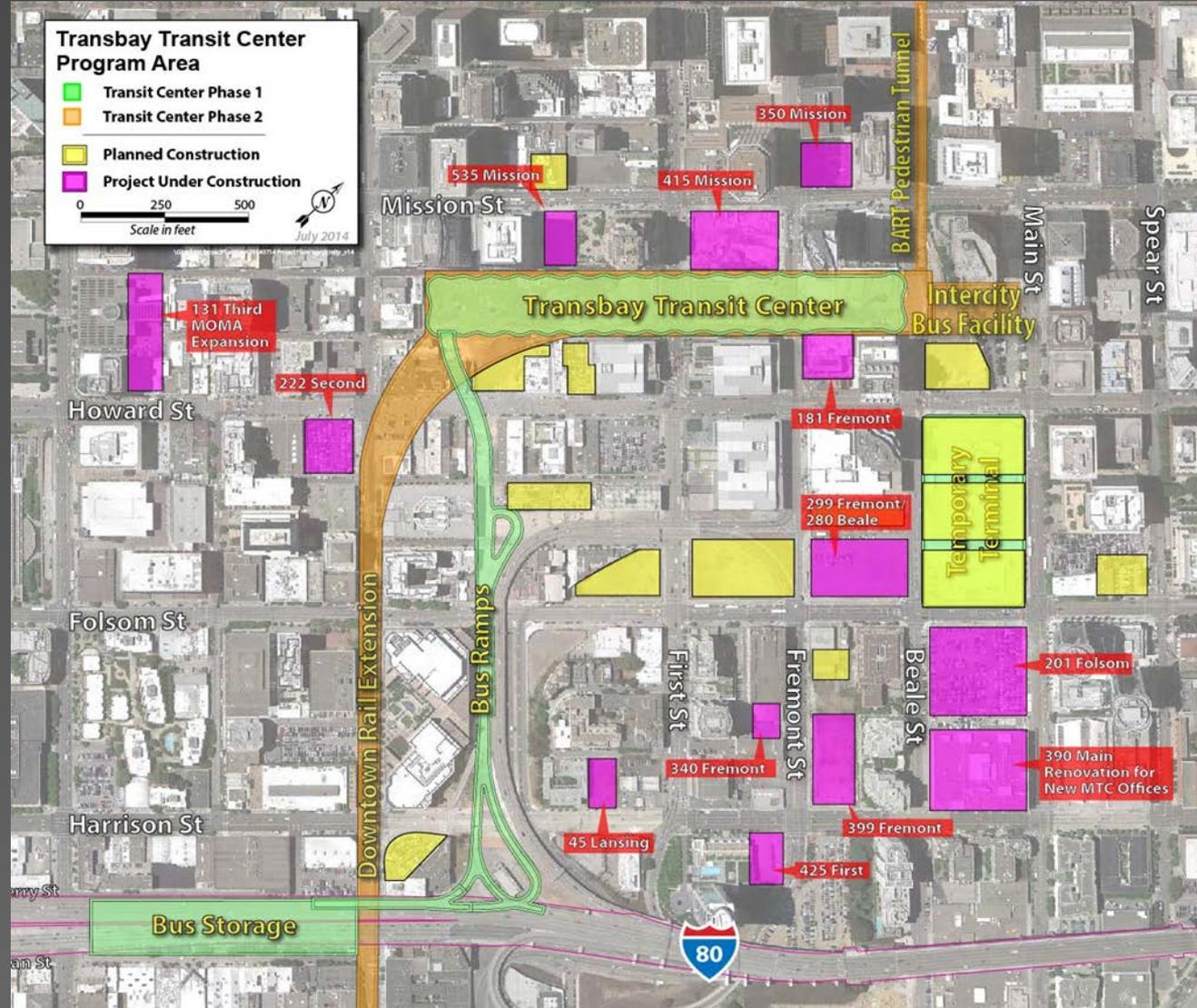


Transbay Plan Areas



Transbay Redevelopment Project Area

- Concept Plan published in 2003; development controls adopted in 2005
- 3,000 new residential units, including 35% affordable units
- Approx. 350 units per acre – highest residential density in SF
- Mix of towers, mid-rises, and townhomes





Neighborhood Stats

- 4,500 New Residential Units
- 6,000,000 sf of New Commercial
- 16,000 Residents
- 180,000 Jobs within 1/2 mile



Transbay Transit Center

New Neighborhood





Transit Center District Plan

- Environmentally Responsible Land Use:
 - Capitalize on new major transit investment with appropriate land use response in the downtown core
- Build on the Urban Design Element and Downtown Plan, analyze:
 - Analyze the downtown form
 - Identify opportunities and set guidelines and standards to build a high-quality public realm and provide public amenities
- Generate more revenue to support the complete Transbay Transit Center/Downtown Rail Extension project and other public benefits

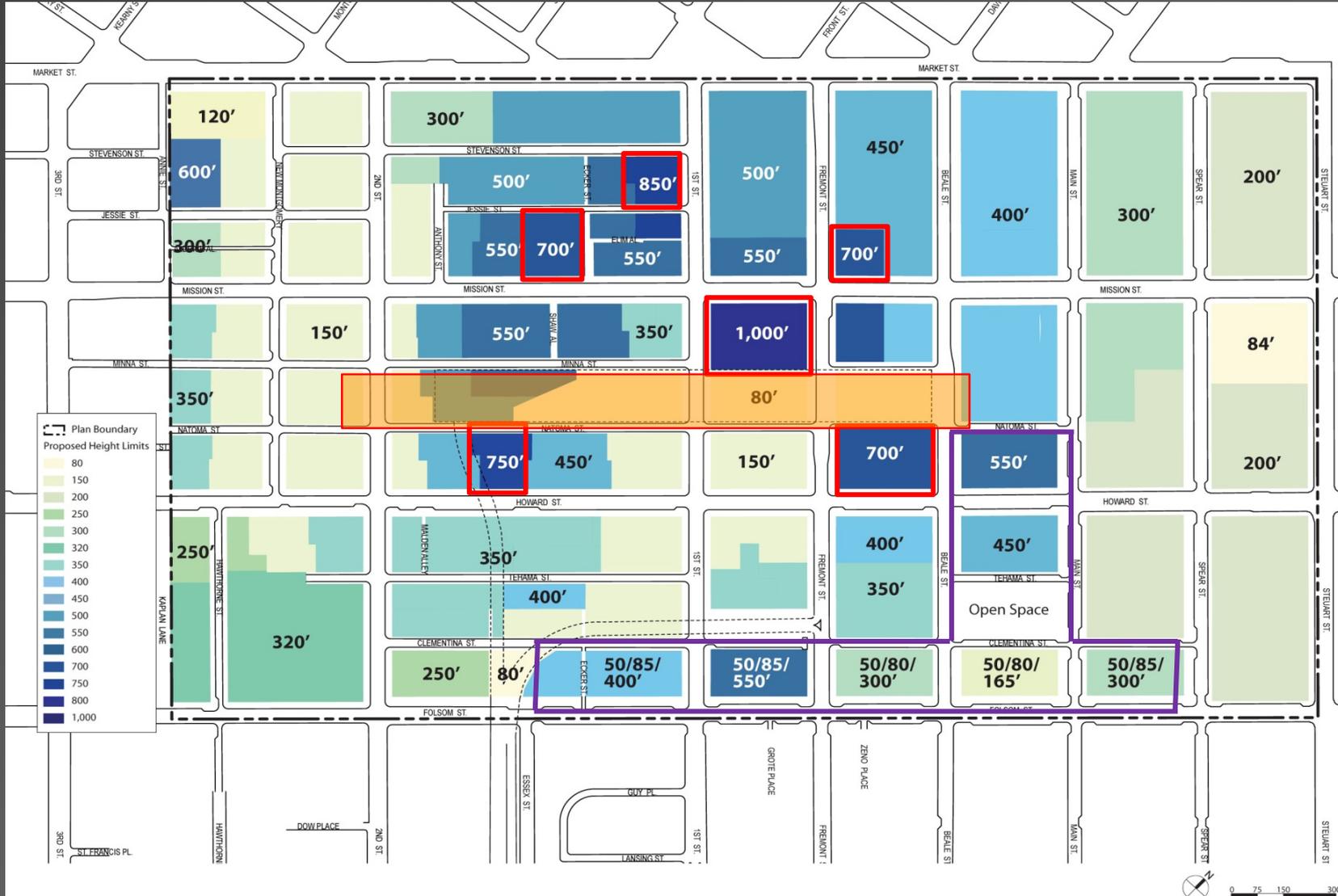


Planning Objectives

- Maintain Downtown as the City's primary employment center:
 - Regional hub of transit network
 - Protection of neighborhoods
 - Economic efficiency, creativity, diversity
- Support Regional Growth Objectives:
 - Maintain San Francisco Share of Regional Job Growth
 - Develop Employment around Transit

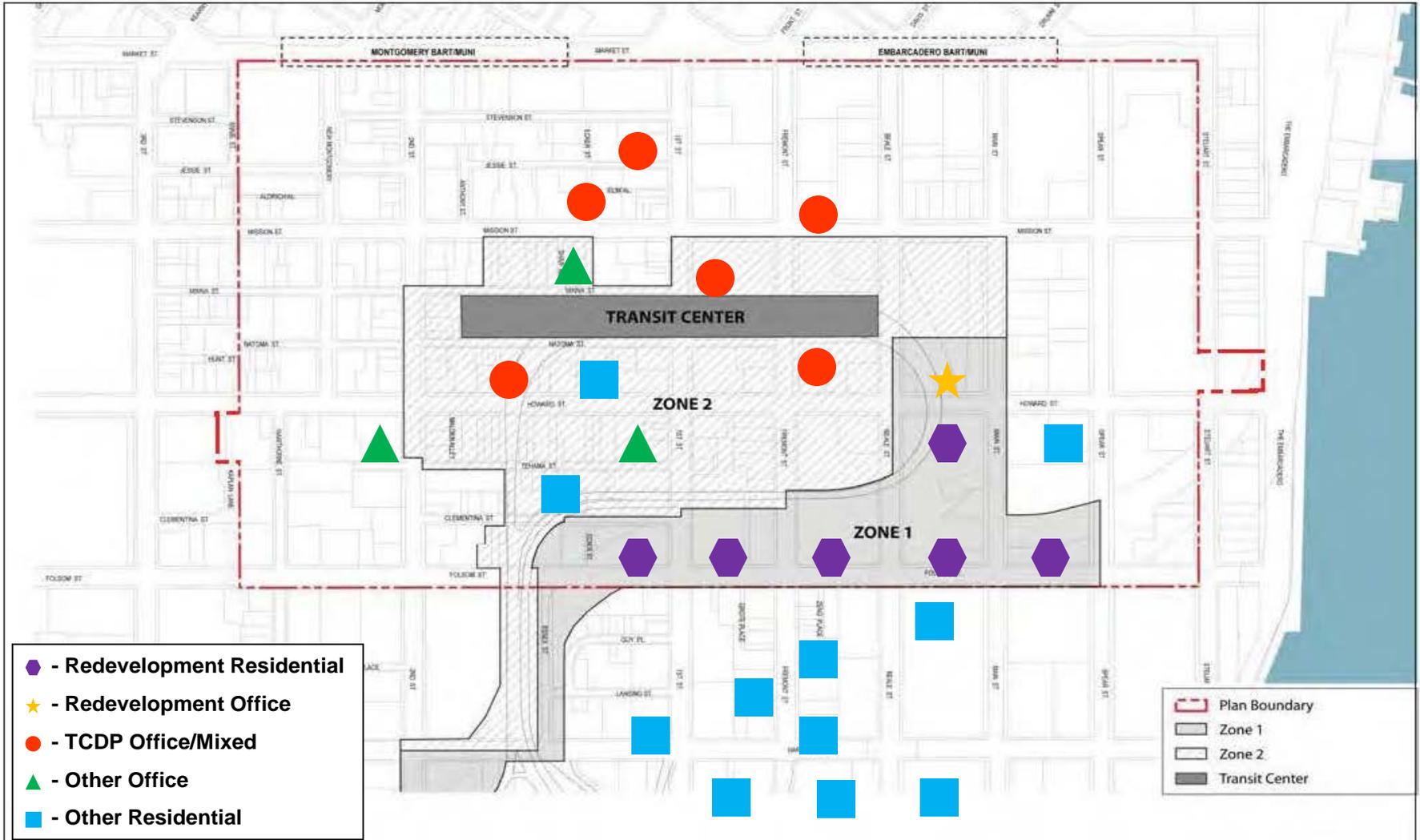


Proposed Development





Development Projects Pipeline





View from Treasure Island | Skyline 2007

**Transbay
Transit
Center**



View from Treasure Island | Possible Transit Center District Plan



Additional Resources

- Transbay Program
 - www.transbaycenter.org
- Transbay Redevelopment Area
 - www.sfocii.org/index.aspx?page=54
- Transit Center District Planning Process
 - www.sf-planning.org/ftp/CDG/CDG_transit_center.htm



Transbay Transit Center

CONTACT INFORMATION

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