



**Phase 1
Construction Schedule Update**

July 08, 2014

Transbay Transit Center

TJPA





Current Schedule Status

June 2014 Month-End Schedule Update:

- Steel Erection Planned to Start in Early October
- Without Mitigation, Phase 1 TTC with Rooftop Park* will Open at the End of 2017 rather than Fall 2017

** Assumes balance of Rooftop Park funded and contract awarded by June, 2015*



Schedule Mitigation Measures to Date

- Structural Steel Re-bid and Early Cast Node Procurement (3 Mos.)
- Re-sequencing and Recovery Measures for Below Grade Concrete (5 Mos.)
- Waterproofing Substitution (2 Mos.)
- A+B Bid Strategy for Bus Ramps (12 Mos.)
- Revised Logic and Shorter Schedule Durations
- Re-sequenced Design Submittal Packages for Earlier Bidding of Selected Trades



Future Schedule Mitigation Strategies

- Seek Opportunities with Skanska to mitigate extended time for Steel detailing and fabrication
 - Overtime for Steel Erection and Welding
 - Multiple Shifts
 - Weekend and Night Time Street Closure



Future Schedule Mitigation Strategies

- Shorter Bidding and Procurement Times for Upcoming Trade Packages
 - Implement Lean Scheduling
 - Expedited Review Process with TJPA
 - Possible Special Board Meetings



Future Schedule Mitigation Strategies

- Buy Shorter Schedule Durations During Bidding
 - Balance Schedule Benefit vs. Potential Cost
- Re-sequence Schedule to Perform More Work Simultaneously
 - Trades Working in Multiple Zones
 - Increased Manpower and Supervision



Future Schedule Mitigation Strategies

- Double Shifts or Overtime Work for Selected Trades
 - Nights and Weekends
- Focus on Critical Activities for Bus Operations
 - Driver Training
 - TCO for the Transit Center



Trade Package Bid Schedule

- July to September 2014:
 - TG 05.8 Rooftop Cranes
 - TG 05.10 Temporary Facilities
 - TG 07.5R Metal Stairs
 - TG 14.1 Elevators and Escalators
 - TG 10.2 Plumbing
 - TG 10.3 HVAC
 - TG 10.4 Electrical
 - TG 10.5 Fire Protection



Trade Package Bid Schedule

- October to December 2014:
 - TG 07.3 Misc. Metals
 - TG 07.4 Concrete Masonry
 - TG 07.8 Expansion Joints
 - TG 07.9 Bollards and Barriers
 - TG 08.9 Roll-up Doors and Grilles
 - TG 13.2 Roofing/Waterproofing
 - TG 13.3 Ground Level Landscaping
 - TG 15.1 Dock Levelers and Bumpers



Trade Package Bid Schedule

- October to December 2014:
 - TG 15.2 Façade Access Equipment
 - TG 16.1 Drywall and Framing
 - TG 16.2 Tile Flooring/Base
 - TG 16.3 Terrazzo
 - TG 16.4 Carpentry
 - TG 16.6 Doors/Frames/Hardware
 - TG 16.8 Spray and Intumescent Fireproofing



Trade Package Bid Schedule

- January to March 2015:
 - TG 08.2 Exterior Awning
 - TG 08.3 Skylights
 - TG 08.4 Metal Panels
 - TG 08.6 Metal Ceilings
 - TG 08.7 Glass Floors
 - TG 08.10 Glass Curtain Walls
 - TG 12.1 Civil/Site Work
 - TG 16.5 Painting
 - TG 16.7 Millwork
 - TG 16.9 Prefabricated Buildings
 - TG 17.1 Signage/Graphics/Directory



Trade Package Bid Schedule

- March to June 2015:
 - TG 13.1 Rooftop Park Landscaping
 - TG 20.1 Final Cleaning
- October 2015:
 - Converged IP Network / Advanced IT and Communications Packages



Summary

- With Mitigation Strategies, open Phase 1 TTC with Rooftop Park in Fall 2017 rather than end of 2017
- Assumes the balance of Rooftop Park funded and contract awarded by June, 2015
 - Assumes No Unforeseen Significant Schedule Impacts
 - High-Risk BSE Work Complete
 - Below Grade Concrete is Proceeding Well
 - 3+ Years of Construction Remaining
 - Assumes trade package procurement holds schedule



Questions?