



Phase 1 Budget Update July 9, 2015

Transbay Transit Center







- Phase 1 Construction Cost Update
- CM/GC Bid Analysis
- Soft Costs
- Risk Assessment
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Phase 1 Construction Cost Update (\$millions)

Awarded to Date (direct cost)*

Transit Center	\$ 877.67
Utility Relocation	\$ 20.84
Demolition Old Terminal	\$ 15.48
Temporary Terminal	\$ 20.65
Bus Ramp	\$ 56.23
Subtotal Award through May 2015	\$ 990.87
Recommended for Awarded July 2015	\$ 150.76
Total Award through July 2015	\$ 1,141.63



Phase 1 Budget Update (\$millions)

Remaining TTC Construction Awards (direct cost)

Total Additional Budget Need	\$ (246.92)
Various Program Savings	\$ 17.28
Replenishment of Construction Contingency/Program Reserve*	\$ (71.91)
Bus Storage	\$ (3.50)
Soft Costs: Construction Management Oversight	\$ (26.70)
Additional CM/GC Costs	\$ (22.42)
Balance	\$ (139.68)
CM/GC Estimate/Known Bid Results	\$ (303.52)
Budget	\$ 163.84

*Amount based on 30% top down (FTA risk model) risk confidence level



Remaining Construction Work to be Awarded

(\$millions)

Futu	re Work to be Awarded		ldgeted mount	CM/GC Es (Feb 20		it Estima d Result	
7.6	Concrete Topping Slabs /Bus Crash Rail/Exp Joints	\$	9.13		3.63	\$ 27.68	
8.2R	Exterior Awning Construction (W1)	\$	33.97			\$ 35.26*	
8.6R	Metal Ceiling (W-14)	\$	18.86	\$ 27	7.87	\$ 28.30*	
12.1	Civil/Sitework at Grade/Ground Level Landscaping	y \$	17.84	\$ 19	9.70	\$ 16.77	
16.0	Interiors/Finishes	\$	20.86	\$ 20	0.91	\$ 39.03	
17.1	Signage/Graphics/Directory System Construction	\$	3.47	\$	3.75	\$ 3.47*	
8.11R	Glass Curtain Walls/Skylights/Glass Floors	\$	26.81	\$ 40	0.44	\$ 59.71*	
8.7	Glass Floors (W12&13)	\$	4.44	\$ 5	5.02	\$ 10.00	
TBD	Metal Column Covers & Other	\$	4.73			\$ 6.50	
TBD	IP Network (award spring 2016)	\$	16.56			\$ 20.01	
TBD	OCS & Traction Control (Muni)	\$	5.00			\$ 7.85	
TBD	Art Work	\$	2.18			\$ 2.18	
	Total	\$	163.84			\$ 256.75	
	Budget					\$ 163.84	
	Balance					\$ 92.91	
13.1	Rooftop Park (Landscaping & Hardscaping)			2	24.5	\$ 33.28	
TBD	Rooftop Park (MEPs)					\$ 13.50	
Know	n Costs			1	Total	\$ 46.78	
	gn Build/Assist			Bala	nce	\$ 139.68	5



CM/GC Bid Analysis



TG07.6 Topping Slabs/Bus Crash Rail/Expansion Joints Scope of Work

- Concrete topping slabs, integral footings, curbs, stem walls, ramps, and all associated accessories
- Concrete protection slabs, equipment pads, and curbs
- Concrete Bus Deck crash rail
- All expansion and seismic joints within concrete



TG07.6 Bid Summary

Bid Date:	5/7/2015
Budget:	\$9.13M
CM/GC Estimate:	\$13.63M
SBE Goal:	20%
Prequalified Bidders:	7
Bids Received:	3
Bid:	\$27.68M - \$32.56M



TG07.6 Bid Results

	Concrete North Inc.	Shimmick Construction Company Inc.	Urata & Sons Concrete, Inc.	Budget	CM/GC Estimate
Bid Amount	\$27.68M	\$30.32M	\$32.56M	\$9.13M	\$13.63M



TG07.6 CM/GC Bid Variance Analysis

The difference between the CM/GC's estimate and the low bid of approximately \$14 million is due to the following factors:

- Scope that was added to or shifted to this trade package from other trade packages and not accounted for in the estimate: \$5 million
- The unit cost used to estimate the cost of the expansion joints was not appropriate for the type of joints used for the Transit Center project: \$4 million
- Other factors: \$5 million



TG07.6 CM/GC Bid Variance Analysis

- Added scope/ transferred scope \$5 million:
 - Elevated slabs
 - Polished concrete
 - Curb and slab at prefabricated buildings
 - Mechanical housekeeping pads
 - Added ramps with curbs/walls
 - Added reinforcing and increased slab thickness



TG16.0 Interiors/Finishes Scope of Work

Concrete Masonry Units

Drywall & Metal Framing

Building Insulation

Clay Panel Cladding

Bird Deterrent

Ballistic Resistant Panels

Acoustic Ceiling Tiles & Wall Treatments Painting

Doors/Frames/Hardware

Interior Architectural Woodwork & Countertops

Prefabricated Buildings

Final Cleaning



TG16.0 Bid Summary

Bid Date:	5/21/2015
Budget:	\$20.86M
CM/GC Estimate:	\$20.82M
SBE Goal:	19%
Prequalified Bidders:	4
Bids Received:	3
Bid:	\$39.03M-\$47.74M



TG16.0 Bid Results

	Skanska USA Building	S.J. Amoroso Construction Co.	West Bay Builders	Budget	CM/GC Estimate
Bid Amount	\$39.03M	\$45.66M	\$47.74M	\$20.86M	\$20.91M



TG16.0 CM/GC Bid Variance Analysis

Major components of the \$18.1M cost differential:

- Masonry Walls costs \$4.8M higher than estimated
- Metal Framing & Drywall costs \$11.67M higher than estimated
- Access Platform added scope of \$1.24M



TG16.0 CM/GC Bid Variance Analysis

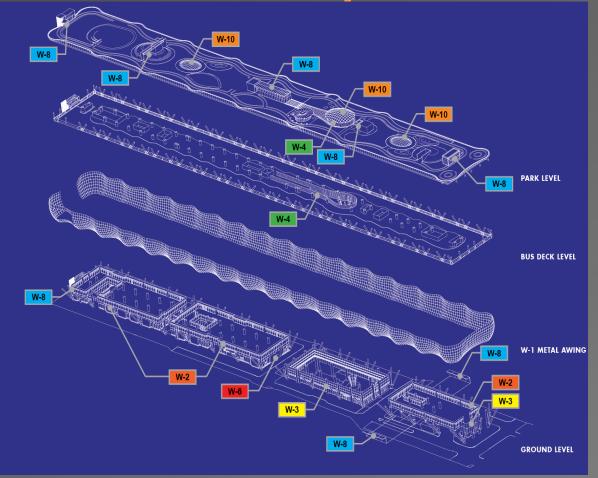
This difference is due to the following factors:

- Quantities added to this trade package are not accounted for in the estimate: \$3 million
- Unit price increase/productivity impacts:
- Labor productivity low in estimate: \$4.5 million
- Scaffolding for drywall missed in estimate: \$1.8 million
- Scope shifted to this trade package from other trade packages and not accounted for in the estimate: \$2.5 million



TG08.11R Glass Curtain Walls & Skylights Scope of Work

Construction services portion of a design-build contract to construct six different glazing systems at various locations throughout the Transit Center





TG08.11R Design Services Proposal Summary

Cost Element	Crown Corr, Inc.	Woodbridge Glass, Inc.
Design Services of TG08.11R	\$2,950,000	\$3,000,000
Construction Fee (% x estimated construction costs of \$23.5 million)	\$4,230,000 (18%)	\$5,000,000 (21.28%)
Construction Overhead (% x estimated construction costs of \$23.5 million)	\$2,820,000 (12%)	\$5,000,000 (21.28%)
Total Proposal Price	\$10,000,000	\$13,000,000



TG08.11R Price Proposal

	Crown Corr Price Proposal	Budget	CM/GC Estimate
Amount	\$59.7M	\$26.8M	\$40.5M

- Design awarded to Crown Corr in February 2015
- Systems now fully designed and priced



TG08.11R Price Proposal Summary

Glass Curtain Walls and Skylight Systems:	Cost
Direct Construction Cost Total	\$48,368,318
Construction Overhead (12% x Direct Construction Costs)	\$5,804,197
Construction Fee (13%* x Direct Construction Costs)	\$6,287,881
Retention Reduction Savings (retention reduced to 2.5%	(\$750.000)
and released at 50% completion) Total Construction Cost	(\$750,000) \$59,710,396

* Reduced from 18% submitted with their CCI's proposal.



TG08.11R Bid Variance Analysis

- Added glazed pop-outs at retail entrances \$2.7M
- DGC loading criteria \$3.8M
- Load transfer to structure \$2.5M
- Labor production/productivity \$3.6M
- Shortened time for material procurement \$1.5M
- Glass cost escalation of 20%



Soft Costs



Soft Costs (\$millions)

Soft Costs	Budget June 2015)	Revised Budget	Delta
Design	\$ 188.66	\$ 178.28	\$ 10.39
Construction Mgmt.	\$ 53.83	\$ 75.98	\$ (22.15)
Pre-Construction	\$ 31.27	\$ 31.27	\$ 0.00
Art	\$ 2.00	\$ 2.00	\$ 0.00
ROW	\$ 77.68	\$ 77.68	\$ 0.00
PMPC	\$ 101.45	\$ 101.45	\$ 0.00
Admin/Legal/Financial/etc.	\$ 124.65	\$ 122.29	\$ 2.36
Total	\$ 579.53	\$ 588.94	\$ (9.41)



Risk Assessment



Contingencies & Reserve

- Recommended total contingencies and reserve consistent with 30% confidence level cost projections
- This will replenish the current contingency amount by \$71.9M, to a total amount of \$133.5M
- Recommended contingency level constitutes approximately 15% of remaining work after all existing known exposure is accounted for
- Recommended construction contingency level is consistent with CM/GC's assessment and CMO's recommendation
- Recommended construction contingency is reasonable given that bidding risk is minimal moving forward, construction is more than 50% complete, foundation work and train box construction is complete, and structural fabrication and erection risks are quantified

Draft Phase 1 Budget with Risk Adjustment and Bids Known at 6/30/15

(\$millions)

Phase 1 Budget - 30% Confidence Level	Budget (as of June 2015)		Revised Budget		
TTC Construction*	\$ 1,041.43	\$	1,181.11	\$ ((139.68)
Bus Ramp*	\$ 56.23	\$	56.23	\$	0.00
Temp Terminal	\$ 20.65	\$	20.65	\$	0.00
Bus Storage*	\$ 15.95	\$	19.45	\$	(3.50)
Utility Relocation	\$ 20.84	\$	20.84	\$	(0.00)
Demolition	\$ 16.48	\$	16.48	\$	0.00
CM/GC Costs	\$ 86.65	\$	109.01	\$_	(22.42)
Subtotal Construction	\$ 1,258.23	\$	1,423.83	\$ ((165.60)
Soft Costs					
Design	\$ 188.66	\$	178.28	\$	10.39
Construction Mgmt	\$ 53.83	\$	75.98	\$	(22.15)
Pre-Construction	\$ 31.27	\$	31.27	\$	0.00
Art	\$ 2.00	\$	2.00	\$	0.00
ROW	\$ 77.68	\$	77.68	\$	0.00
PMPC	\$ 101.45	\$	101.45	\$	0.00
Admin/Legal/Financial/etc.	\$ 124.65	\$	122.29	\$_	2.36
Subtotal Soft Costs	\$ 579.53	\$	588.94	\$	(9.41)
CM/GC Contingency	\$ 19.79	\$	31.49	\$	(11.70)
Construction Contingency	\$ 36.34	\$	67.45	\$	(31.11)
Program Reserve	\$ 5.50	\$	34.60	\$_	(29.10)
Subtotal Contingencies & Reserve	\$ 61.64	\$	133.54	\$	(71.91)
Total Phase 1 Program	\$ 1,899.40	\$	2,146.32	\$ ((246.92)

Transbay Transit Center



Possible Mitigation Measure

Bus Storage

Budget: Updated Estimate: Balance: \$15.95M \$<u>19.45M</u> (\$3.5 M)

Bus Storage could be built after TTC completion with little impact to TTC operations, for a total Phase 1 Budget savings of \$19.45M



Funding



Funding Need with Risk Adjustment and Bids Known at 6/30/15 (\$millions)

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Transbay Transit Center

	30% Risk	
Current Budget	\$ 1,899.4	
Current Estimate (30% Risk Level)	\$ 2,146.3	
Amt of Additional Budget	\$ 246.9	
Mitigation		
Bus Storage	\$ (19.5)	
Revised Budget Needed	\$ 227.5	
Revised Budget Total	\$ 2,126.9	
Phase 1 Funding		
Current budget fully funded	\$ 1,899.4	
Timing of CFD availability during Phase 1	\$ (20.0)	
Parcel F minimum bid price	\$ 160.0	
Total Funding	\$ 2,039.4	
30% Risk Level budget (mitigated)	\$ 2,126.9	
New Funding Need	\$ 87.5	

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Transbay Transit Center

Funding Plan (\$millions)

Sources	Commi	Committed Funds		Potential Funds	
Land Sales	\$	510.0	\$	TBD	
FRA Grants	\$	402.7			
TIFIA/Bridge Loan	\$	171.0			
FTA Grants	\$	62.4			
FEMA Grants	\$	0.1	\$	TBD	
Regional Measures 1 & 2	\$	197.4			
AB 1171	\$	150.0			
San Francisco Prop K	\$	139.0			
AC Transit Capital Contribution	\$	39.0			
RTIP	\$	10.2			
Miscellaneous Local	\$	8.7			
One Bay Area Grant	\$	6.0			
San Mateo Sales Tax	\$	4.5			
Transit Center District Plan (Mello-Roos)	\$	198.5	\$	TBD	
Sponsorship	\$		\$	TBD	
Total Funds	\$	\$1,899.4	\$	TBD	



Next Steps

Schedule

<u>July 2015</u>

Award critical trade packages (action item)

- TG12.1: Civil/Site Work at Grade/Ground Level Landscaping (\$16,765,000)
- TG08.2R: Exterior Awning-Construction Services (\$35,262,150)
- TG16.0: Interiors/Finishes (\$39,026,000)
- TG08.11R: Glass Curtain Walls and Skylights-Construction Services (\$59,710,396)
- Adopt a two month interim fiscal year budget for August & September (action item)
- Augment CMO contract (action item)
- Continue to work with City & County of San Francisco on funding

September 2015

- Final budget for both Phase 1 update and Fiscal Year 2015-16 capital budget (action item)
- Award remaining trade packages except IT Network (action items)



Questions?

