

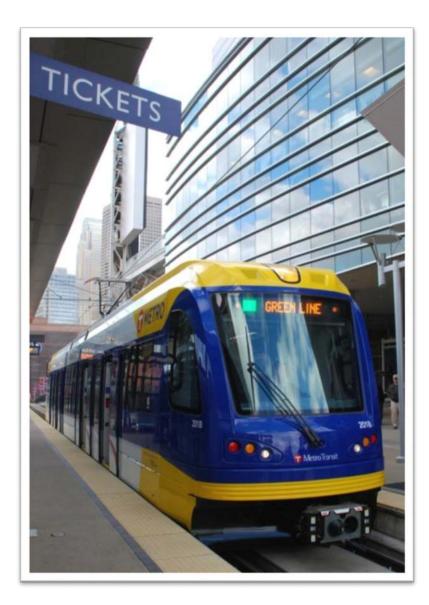
Executive Change Control Board

March 30, 2016



Today's Topics

- Review Civil Cost Estimate at 90% Design
- Next Steps



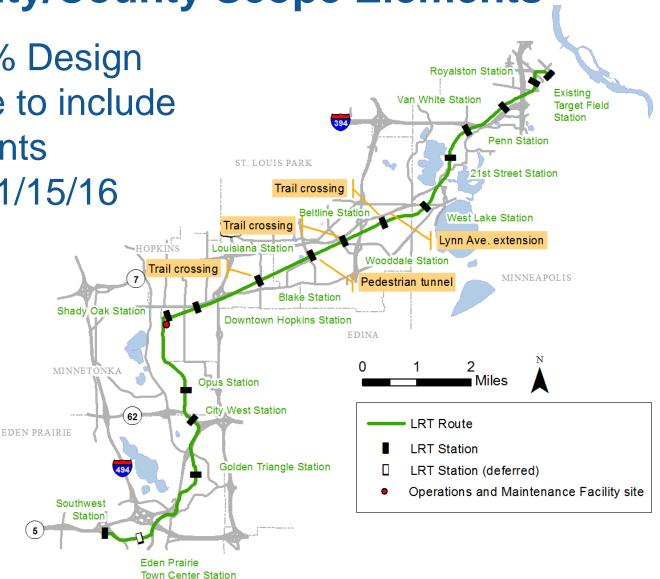


Review Civil Cost Estimate at 90% Design



Requested City/County Scope Elements

 Adjusted 60% Design cost estimate to include scope elements approved at 1/15/16 ECCB



Adjusted 60% Design Cost Estimate

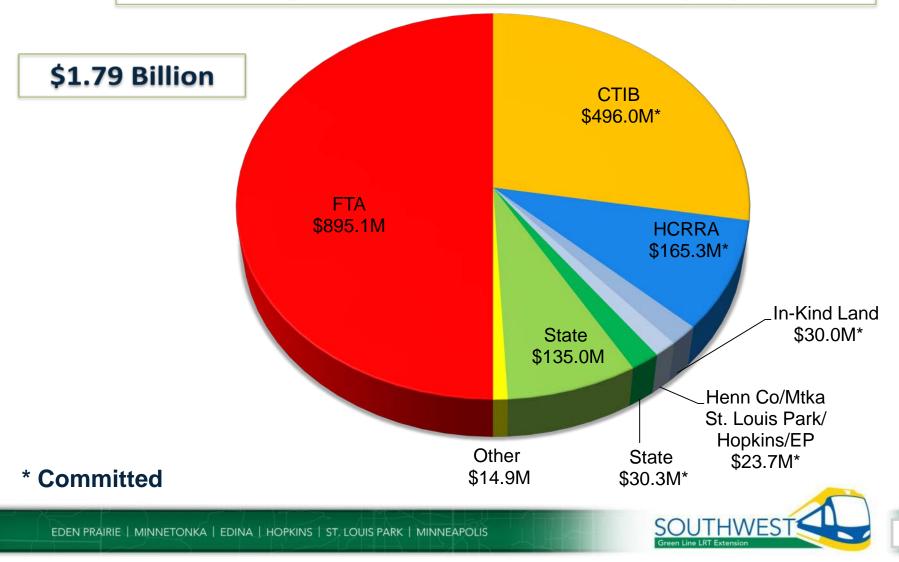
Budget Category (in \$ millions, YOE)	60% Design Reviewed 1/15/16	60% Design Incl. Scope Elements
Guideway and Track	\$384	\$384
Stations, stops, terminals	\$70	\$70
Support facilities/OMF	\$90	\$90
Sitework, special conditions	\$164	\$174
Systems	\$238	\$238
ROW, land, existing improvements	\$210	\$212
Vehicles	\$126	\$126
Soft Costs ¹	\$492	\$497
Total Project Costs	\$1,774	\$1,791

¹ Professional Services, Unallocated Contingency and Finance Charges



Updated Funding Sources

\$745 Million Committed out of \$895 Million Local Funds Needed Outstanding Local Funds Must be Committed by July 1, 2016



60% Estimate vs 90% Estimate

- 60% Estimate: Complete "bottoms up" approach
 - Used more detailed drawings and quantities
 - Refined labor rates, obtained vendor material quotes
 - Incorporated contractor markup including bonds, insurance, permit fees, and general conditions
 - Projected reduction of allocated contingency with increase in confidence/decrease in design risk



60% Estimate vs 90% Estimate

- 90% Estimate: Updated "bottoms up" approach
 - Updated and used more detailed drawings and quantities
 - Resolved design questions regarding utilities, earthwork, temporary facilities, parking decks
 - Allocated contingency based on updated level of design



Overview of 90% Civil Cost Estimate

- Includes 90% civil design including all bridges (LRT, freight and pedestrian), LRT and freight track, retaining walls, tunnels, stations, parking lots and deck, roads, sidewalks, landscaping, fencing, utilities and vertical circulation
- Assumes contractor bid cost approach that combines
 - Established productivity rates
 - Local labor rates
 - Local, national and international material costs
 - Established contractor mark-up costs
- Incorporates results of project-wide constructability and sequencing reviews



Project Cost Estimate Update Summary

Budget Category (in \$ millions, YOE)	60% Design (24% Contingency)	90% Civil Design (23% Contingency)
Guideway and Track	\$384	\$382
Stations, stops, terminals	\$70	\$73
Support facilities/OMF ¹	\$90	\$90
Sitework, special conditions	\$174	\$176
Systems ²	\$238	\$240
ROW, land, existing improvements	\$212	\$212
Vehicles	\$126	\$126
Soft Costs ³	\$497	\$492
Total Project Costs	\$1,791	\$1,791
 ¹ 60% cost estimate only for Support facilities/OMF ² 90% cost estimate update for Civil elements only ³ Professional Services - Upallocated Contingency and Find 	anco Chargos	

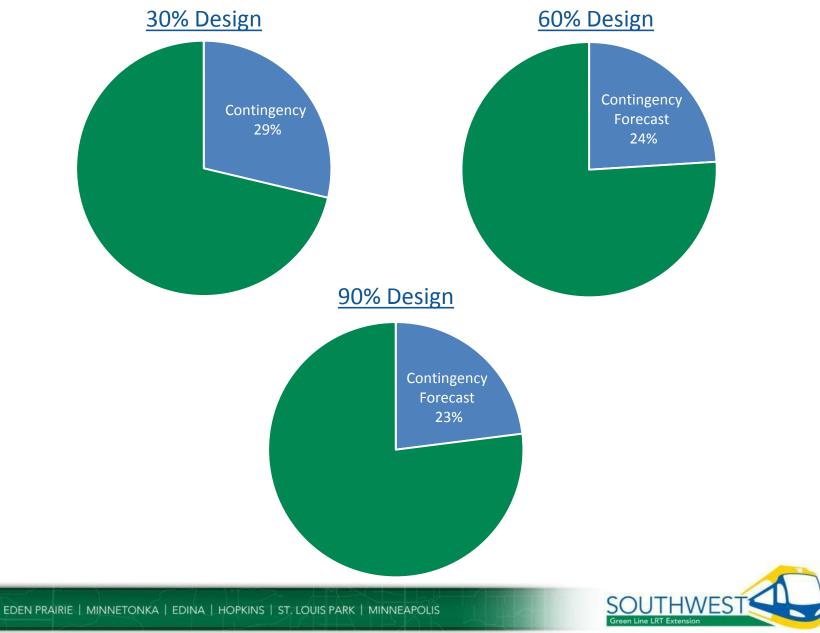
³ Professional Services, Unallocated Contingency and Finance Charges

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Updated Contingency Forecast

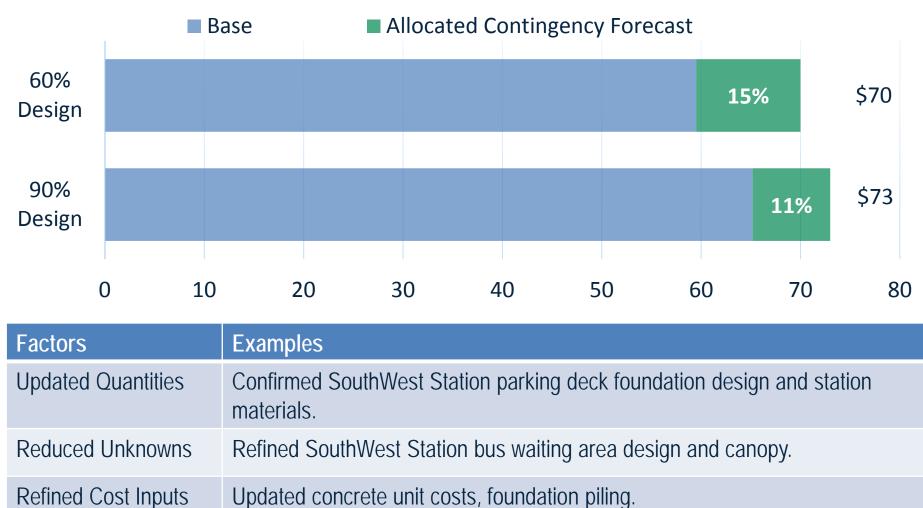


Guideway and Track (YOE, in \$ Millions)

	Base	Allocated Contingency Forecast						
60% Design					12%	\$384		
90% Design					11%	\$382		
Factors))	10 Exa)0 2(amples	00 30	00	400 500		
Updated Quantities Refined retaining wall sizing, layout and type.								
Reduced Unknowns Refined trackway drainage, bridge materials.								
Refined Cost Inputs Updated piling unit costs for retaining walls and bridges. Rail quotes updated.								



Stations (YOE, in \$ Millions)



Support Facilities/OMF (YOE, in \$ Millions)

	Base	e 🔳	Allocate	ed Contingency F	orecast		
60% Design						15%	\$90
90% Design	In progres	s. ECCB re	eview in	July			
()	20	4	0	60	80	100
Factors		Examples					
Updated C	Quantities	In progress					
Reduced	Unknowns	In progress					
Refined C	ost Inputs	In progress					



Site Work, Special Conditions (YOE, in \$ Millions)

	Bas	e	Allocated Cont				
60% Design					16%	\$174	
90% Design					10%	\$176	
	0	5	50 10	00 :	150	20)0
Factors		Exampl	les				
Updated (Quantities	Refined roadway, sidewalk, and landscape design and erosion control plans. Refined wall sizing, layout and type.					
Reduced	Unknowns	Refined cathodic protection to stormwater structures, earthwork approach.					
Refined C	Cost Inputs	Refined SouthWest Station bus loop bridge, overall utility design requirements.					



Systems (YOE, in \$ Millions)

	B	ase	Allocate	ed Contingen	cy Fore	cast			
60% Design						17%		\$238	
90% Design	In Prog	ress, Civil El	ements Only			17%		\$240	
()	50	100	150	20	00	250	30	0
Factors		Examples (Civil Elements Only)							
Updated (Quantities	Refined guideway ductbank, OCS pole foundations.							
Reduced	Unknowns	Refined traffic signal layout and interconnects design.							
Refined C	Cost Inputs	ost Inputs Refined freight intrusion protection design.							



Right of Way (YOE, in \$ Millions)

	Ba	Allocated Contingency Forecast						
60% Design						36%		\$212
90% Design								
()	50	10	00	15	50 20	00	250
Factors		Examples						
Updated A	Appraisals	In Progress. ROW will be updated when in-kind land appraisals are complete. ECCB review in July.						



Next Steps



Major Milestones	Date
ECCB Reviews* 60% Project Cost Estimate	Completed
90% Design Packages for Civil Completed	Completed
LRV Proposals Due	Completed
ECCB Reviews* 90% Civil Cost Estimate	Mar 2016
FEIS Publication	May 2016
90% Design Packages for Systems & OMF Completed	May 2016
ECCB Reviews and Approves* Project Budget (includes 90% cost estimate)	July 2016
Environmental Record of Decision	Aug 2016
Approval to Enter Engineering	Fall 2016
Letters of No Prejudice (LONP) from FTA	Pre FFGA
Full Funding Grant Agreement	Mid 2017
Heavy Construction	2017-2019
Revenue Service	2020
*per CTIB Funding Commitment Resolution	



Next Steps Summer 2016

- Review and approve project scope and cost estimate as project budget prior to applying for entry into Engineering
 - CMC
 - ECCB
 - HCRRA
 - CTIB
- Approve project scope and budget, authorize SPO to submit application to enter Engineering
 - Transportation Committee
 - Metropolitan Council



More Information

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