

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency				
												30%	Program Management	15%		
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
1	3	Acquire and Restore Head House Building											\$30,960,000		\$40,248,000	\$46,285,000
				Building	Complete Historical Renovation	Sq Ft		\$172	180,000	\$30,960,000	300 feet by 150 feet by 4 floors					
2	1	Initial Head House Renovations											\$380,000		\$494,000	\$568,000
				Building	Renovate Rest Rooms	Sq Ft		\$120	1,500	\$180,000	General updating					
				Building	Other		\$200,000			\$200,000	Miscellaneous items					
3	1	Clear Old Post Office Site											\$300,000		\$390,000	\$449,000
				Demolition	Demolish Post Office Loading Dock and Skyway		\$300,000			\$300,000						
4	1	Restore and Fit Out Concourse											\$12,480,000		\$16,224,000	\$18,658,000
				Building	Historic Restoration of Bridge Structure and Office Space			\$120	8,500	\$1,020,000	83' X 130'					
				Building	Historic Restoration of Concourse			\$120	28,500	\$3,420,000	83' X 345'					
				Building	Structural Restoration of Bridge and Offices		\$600,000			\$600,000	Roof, skylights, building exterior					
				Building	Structural Restoration of Concourse		\$3,000,000			\$3,000,000	Roof, skylights, building exterior					
				Building	Fit out space for Phase One Service			\$120	37,000	\$4,440,000						
5	1	Restore Station Trackbed for Phase One									Install Station Tracks 1, 2, 3, and 4		\$4,977,750		\$6,471,075	\$7,442,000
					Preparation for New Track											
				Demolition	Remove Existing Pavement	Sq Yd		\$35	5,260	\$184,100	4 tracks 910 feet long, 13 feet wide					
				Demolition	Remove Pavement East of Slab in Trackbed	Sq Yd		\$35	1,960	\$68,600	340 feet by 13 feet					
				Structural	Rehab, Waterproof and Drain Structure	Sq Yd		\$45	5,260	\$236,700						
				Structural	Build Slab East of Parking Structure	Trk Ft		\$320	1,190	\$380,800	Slab on grade east of parking structure					
					Install New Track											
				Trackwork	Install DF Track	Trk Ft		\$260	4,830	\$1,255,800	Used in platform areas					
				Grading	Grade for Ballasted Track	Lin Ft		\$150	3,845	\$576,750						
				Trackwork	Install Turnouts	Each		\$125,000	7	\$875,000						
				Trackwork	Install Ballasted Track	Lin Ft		\$175	8,000	\$1,400,000	Ballasted track on embankment					
14	1	Connect St. Paul Union Depot Trackage to Freight Lines											\$6,630,375		\$8,619,488	\$9,912,000

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PAHSE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%					
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management		
					Build East Connection to UP, BNSF												
				Demolition	Retire UP Wye Turnout	Each		\$15,000	1	\$15,000							
				Grading	Grade for Station Connection	Trk Ft		\$150	215	\$32,250							
				Trackwork	Install Turnout in UP Wye Track	Each		\$150,000	2	\$300,000	Assume no. 14						
				Trackwork	Build Station Connection	Trk Ft		\$175	215	\$37,625							
				Trackwork	Realign and Surface UP Wye Track	Trk Ft		\$15	2,000	\$30,000	Line for turnout and superelev.						
				Trackwork	Install Turnout in BNSF Main	Each		\$150,000	1	\$150,000	Assume no. 14						
				Trackwork	Realign and Surface BNSF Main	Trk Ft		\$15	2,000	\$30,000	Line for turnout and superelev						
				Trackwork	Rehab UP/BNSF Conn	Trk Ft		\$50	1,300	\$65,000	Timber, surface						
					Install Train Control on Union Pacific Trackage					\$0	Assume new CP						
				Signals and Cd	Install New Control Point	Each		\$350,000	1	\$350,000							
				Signals and Cd	Power Turnouts and Signals	Each		\$200,000	2	\$400,000							
				Signals and Cd	Tie into Other Locations		\$200,000			\$200,000	7th Street						
					Install Train Control on BNSF Trackage					\$0	Assume new CP						
				Signals and Cd	Install New Control Point	Each		\$350,000	1	\$350,000							
				Signals and Cd	Power Turnouts and Signals	Each		\$200,000	1	\$200,000							
				Signals and Cd	Signal Track	Trk Ft		\$100	1,300	\$130,000							
				Signals and Cd	Tie into Other Locations		\$600,000			\$600,000	Division St., 7th St., UP Station CP						
				Other	Pay Capitalized Mtc. on Turnouts	Each		\$280,000	2	\$560,000	\$10,000 annual, 100 years, 3.5%						
					Build West Connection to CP												
				Grading	Grade for Connection	Trk Ft		\$150	100	\$15,000							
				Trackwork	Realign CP Main Track	Trk Ft		\$15	1,300	\$19,500	Create favorable alignment for turnout						
				Trackwork	Resurface and Adjust Rail to Chestnut St.	Trk Ft		\$20	3,050	\$61,000	Also adjust superelev						
				Trackwork	Install Mainline Turnout	Each		\$125,000	1	\$125,000	Assume No. 11						
				Trackwork	Build Station Connection	Trk Ft		\$175	100	\$17,500							
				Trackwork	Inspect/Repair Retaining Wall	Sq Ft		\$25	22,500	\$562,500	Wall runs between Sibley and Wabash						
				Other	Pay Capitalized Mtc on Turnout	Each		\$280,000	1	\$280,000	\$10,000 annual, 100 years, 3.5%						

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PAHSE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%				
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
					Replace "Robert Street" Interlocker					\$0	Existing unit is relay based					
				Signals and C	Install New Control Point	Each		\$500,000	1	\$500,000						
				Signals and C	Power Turnouts and Signals	Each		\$200,000	3	\$600,000						
				Signals and C	Crossing Frogs and Signals	Each		\$100,000	2	\$200,000						
				Signals and C	Tie into Other Locations	Each		\$200,000	4	\$800,000	Hoffman, UP Station, Chestnut St., moveable bridge					
6	1		Platform and Vertical Circulation for Phase One									\$10,405,000	\$13,526,500	\$15,555,000		
			Renovate Platform													
			Demolition	Remove Asphalt and Rehab.	Sq Ft		\$20	32,430	\$648,600	Platform 1-2 is 910 feet, Platform 3-4 is 500 feet by 23 feet wide						
			Platforms	Construct New Platform	Sq Ft		\$120	7,820	\$938,400	340 feet by 23 feet						
			Platforms	Install Canopies and Utilities	Sq Ft		\$180	36,600	\$6,588,000	26,900 Sq Ft for 1170 Ft. length plus 9,700 Sq Ft for 3-4						
			Vertical Circulation													
			Building	Stairs, Elevator, Escalator	Each		\$900,000	2	\$1,800,000	Includes escalator, elevator						
			Trackside Utilities													
			Utilities	Install 480 Stand-by, 6 Locations	Each		\$35,000	6	\$210,000							
			Utilities	Provide Water Cabinets	Each		\$25,000	8	\$200,000							
			Public Utilities													
			Utilities	Relocate/remove		\$20,000				\$20,000	drainage and other improvement may impact the utilities on the site					
7	1		Add Intercity Buses to Track Level									\$9,956,300	\$12,943,190	\$14,885,000		
			Modify Corner of Structure at Sibley and Kellogg													
			Structural	Modify Existing Slab		\$2,500,000				\$2,500,000						
			Close and Replace Ramp to Broadway													
			Structural	Demolish and Reconstruct		\$5,000,000				\$5,000,000						
			Install Bus Platform													
			Demolition	Preparation for Drive, Platform		\$100,000				\$100,000						
			Platforms	Renovate Platform	Sq Ft		\$20	6,900	\$138,000	300 feet by 23 feet						
			Platforms	Install Shelters and Utilities	Sq Ft		\$180	5,060	\$910,800	220 by 23 feet						

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%				
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
				Vehicle Circ.	Paving	Lin Ft		\$250	350	\$87,500						
				Vehicle Circ.	Provide Final Paving	Lin Ft		\$300	1,000	\$300,000						
				Vertical Circulation												
				Building	Stairs, Elevator, Escalator	Each		\$900,000	1	\$900,000						
				Public Utilities												
				Utilities	Relocate/rRemove		\$20,000			\$20,000						
8	2	Add Red Rock	Commuter Trains									\$23,718,525		\$30,834,083	\$35,459,000	
				Install Station Track Five												
				Demolition	Remove Existing Pavement	Sq Yd		\$35	1,220	\$42,700	1 track, 910 feet					
				Demolition	Remove Temporary Portion of Trk 4	Trk Ft		\$10	120	\$1,200						
				Structural	Rehab, Waterproof and Drain Structure	Sq Yd		\$45	1,220	\$54,900						
				Structural	Build Slab on Grade	Trk Ft		\$320	460	\$147,200						
				Trackwork	Install DF Track	Trk Ft		\$260	1,370	\$356,200	Includes 120 feet of track 4					
				Install East Interlocking Trackwork and Approaches												
				Demolition	Remove Temporary Track	Trk Ft		\$15	940	\$14,100						
				Demolition	Remove Temporary Turnouts	Each		\$15,000	3	\$45,000						
				Grading	Grade for Ballasted Track	Lin Ft		\$150	3,395	\$509,250						
				Trackwork	Install Ballasted Track	Lin Ft		\$175	3,395	\$594,125						
				Trackwork	Install Turnouts	Each		\$125,000	9	\$1,125,000	Double slips counts as two turnouts					
				Trackwork	Realign Track	Trk Ft		\$20	320	\$6,400						
				Install East End Interlocking and Train Control												
				Signals and co	Install New Control Point	Each		\$750,000	1	\$750,000	Unit dedicated to station					
				Signals and co	Signal Track	Trk Ft		\$100	6,395	\$639,500	3395' plus five stations trks @600 ft.					
				Signals and co	Power Turnouts and Signals	Each		\$200,000	9	\$1,800,000	Double slips counts as two turnouts					
				Signals and co	Crossing Frogs and Signals	Each		\$100,000	-	\$0						
				Signals and co	Tie into Other Locations	Each		\$200,000	3	\$600,000						

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%					
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management		
			Install West Interlocking Trackwork and Approaches														
				Demolition	Remove Temporary Track	Trk Ft		\$10	100	\$1,000							
				Demolition	Remove Temporary Turnouts	Each		\$10,000		\$0							
				Structural	Install Elevated Struct for Northwest Lead	Lin Ft		\$5,000	650	\$3,250,000							
			Urban Highway		Traffic Engineering for Structure		\$300,000			\$300,000							
				Grading	Grade for Ballasted Track	Lin Ft		\$150	630	\$94,500							
				Trackwork	Install Ballasted Track	Lin Ft		\$175	630	\$110,250							
				Trackwork	Install Turnouts	Each		\$125,000	1	\$125,000							
				Trackwork	Realign Track	Trk Ft		\$20		\$0							
			Install West End Interlocking Signals & Comm														
				Signals and co	Install New Control Point	Each		\$500,000	1	\$500,000							
				Signals and co	Signal Track	Trk Ft		\$100	3,880	\$388,000	630' plus five station tracks @650						
				Signals and co	Power Turnouts and Signals	Each		\$200,000	4	\$800,000							
				Signals and co	Crossing Frogs and Signals	Each		\$100,000	-	\$0							
				Signals and co	Tie into Other Locations	Each		\$200,000	2	\$400,000							
			Install Platforms														
				Platforms	Renovate Platform 5-6	Sq Ft		\$20	20,930	\$418,600	910 feet by 23 feet						
				Platforms	Build New Portion of 5-6	Sq Ft		\$100	7,820	\$782,000	340 feet by 23 feet						
				Platforms	Renovate Platform 3-4	Sq Ft		\$20	9,430	\$188,600	410 feet by 23 feet						
				Platforms	Build New Portion of 3-4	Sq Ft		\$100	7,820	\$782,000	340 feet by 23 feet						
				Platforms	Install Canopies, Lighting, etc. 5-6	Sq Ft		\$180	26,900	\$4,842,000	1170 feet by 23 feet						
				Platforms	Lengthen Canopies, etc. 4-5	Sq Ft		\$180	17,200	\$3,096,000	750 feet by 23 feet						
			Vertical Circulation														
				Building	Stairs, Elevator, Escalator	Each		\$900,000	1	\$900,000							
			Trackside Utilities														
				Utilities	Add 480 Receptacle	Each		\$35,000	1	\$35,000							
			Public Utilities														

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%				
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
				Utilities	Relocate/Remove		\$20,000			\$20,000						
9	1	Add Central Corridor Light Rail to Track Level									two tracks on platform 9-10	\$8,165,300		\$10,614,890	\$12,207,000	
			Install Track													
			Demolition		Remove Paving from Track Bed	Sq Yd		\$50	2,300	\$115,000	900 feet by 23 feet					
			Structural		Rehab, Waterproof, and Drain Structure	Sq Yd		\$45	2,300	\$103,500						
			Trackwork		Install Street Track	Lin Ft		\$1,000	600	\$600,000	Double track with girder rail plus repair street					
			Trackwork		Install DF Track on Slab	Lin Ft		\$260	1,800	\$468,000	900 feet, including storage					
			Trackwork		Install Scissors Crossover	Each		\$800,000	1	\$800,000						
			Install Traction Power System													
			Traction Power		Install OCS	Trk Ft		\$100	3,000	\$300,000	Lump sum for crossovers					
			Traction Power		Install Feeders	Trk Ft		\$300	1,500	\$450,000						
			Traction Power		Provide Substation		\$1,000,000			\$1,000,000						
			Provide Platform and Amenities													
			Platforms		Renovate Platform	Sq Ft		\$20	13,800	\$276,000	600 feet by 22 feet					
			Platforms		Install Canopies, Lighting, etc.	Sq Ft		\$180	11,960	\$2,152,800	520 feet by 23 feet					
			Vertical Circulation													
			Building		Stairs, Elevator, Escalator		\$750,000			\$900,000						
			Traffic Flow Changes													
			Urban Highway		Revamp Local Traffic Flows		\$500,000			\$500,000						
			Public Utilities													
			Utilities		Relocate/Remove		\$500,000			\$500,000	Address corrosion issues					
10	1	Add Metro Transit Buses to Track Level										\$4,493,800		\$5,841,940	\$6,718,000	
			Provide for Bus Platforms and Drives													
			Demolition		Remove Existing Paving from Bus Drive	Sq Yd		\$50	2,300	\$115,000	900 feet by 23 feet					
			Demolition		Preparation for Drive, Platform		\$450,000			\$450,000						
			Platforms		Renovate Bus Platform	Sq Ft		\$20	13,800	\$276,000	600 feet by 23 feet					

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%				
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
				Platforms	Install Canopies, Lighting, etc.	Sq Ft		\$180	11,960	\$2,152,800	520 feet by 23 feet					
				Vehicle Circulation	Provide Final Paving	Lin Ft		\$500	1,200	\$600,000	Include approach to new ramp					
				Vertical Circulation												
				Building	Stairs, Elevator, Escalator		\$900,000			\$900,000						
11	3	Add Midwest High Speed Rail									Add platform 7-8, two tracks	\$26,800,930		\$34,841,209	\$40,067,000	
				Install Platform Tracks												
				Demolition	Remove Existing Pavement	Sq Ft		\$35	23,660	\$828,100	910 feet by 13 feet by 2 tracks					
				Structural	Rehab, Waterproof and Drain Structure	Sq Ft		\$45	23,661	\$1,064,745						
				Structural	Provide Slab on Grade for DF Track	Trk Ft		\$320	680	\$217,600						
				Trackwork	Install DF Track	Trk Ft		\$260	2,500	\$650,000	DF track over parking structure					
				Install Platforms												
				Platforms	Renovate Platform	Sq Ft		\$20	19,800	\$396,000	860 feet by 23 feet					
				Platforms	Construct New Portion of Platform	Sq Ft		\$100	7,820	\$782,000	340 feet by 23 feet					
				Platforms	Install Canopies, Lighting, etc.	Sq Ft		\$180	27,600	\$4,968,000	1200 feet by 23 feet					
				Vertical Circulation												
				Building	Stairs, Elevator, Escalator		\$900,000			\$900,000						
				Trackside Utilities												
				Utilities	Add 2 480 volt Receptacles	Each		\$35,000	2	\$70,000						
				Public Utilities												
				Utilities			\$20,000			\$20,000						
				East End Interlocking Trackwork Modifications												
				Demolition	Retire Temporary Track	Trk Ft		\$10	340	\$3,400						
				Grading	Grade for Track	Lin Ft		\$100	540	\$54,000						
				Trackwork	Install Ballasted Track	Lin Ft		\$175	540	\$94,500						
				Trackwork	Install Turnouts	Each		\$125,000	2	\$250,000						
				Trackwork	Realign Track	Trk Ft		\$20	120	\$2,400						
				East End interlocking Modification and Additions												

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency					
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management		
					Signals and Comm.	Turnout		\$200,000	2	\$400,000							
					Signals and Comm.	Trk Ft		\$100	1,840	\$184,000	540' plus 2 station tracks @ 650						
					Tie into Existing Locations	Each		\$200,000	3	\$600,000							
					Install West End Connection, Building Structure from Sibley to a Point East of Wabasha												
				Demolition	Demo. from Wabasha to Chestnut	Lin Ft		\$400	2,300	\$920,000							
				Demolition	Trk Ft		\$10	200	\$2,000	\$400,010							
				Parking	Relocate Parking	Parking spot		\$18,000	200	\$3,600,000	Assumes new or modified structure						
				Structural	Build Single Track Structure	Lin Ft		\$5,000	1,150	\$5,750,000							
				Urban Highway	Traffic Engineering Costs		\$500,000			\$500,000							
				Grading	Grading for New Ballasted Track	Trk Ft		\$100	2,445	\$244,500							
				Grading	Grading for CP Realignment	Lin Ft		\$250	2,230	\$557,500	May need some short retaining walls						
				Trackwork	Build Ballasted Track	Trk Ft		\$175	3,725	\$651,875							
				Trackwork	Install Turnouts	Each		\$125,000	3	\$375,000							
				Trackwork	Realign Existing Track	Trk Ft		\$20	90	\$1,800							
				Trackwork	Realignment of Existing CP Mains	Trk Ft		\$20	4,460	\$89,200							
				Trackwork	Restress Rail	Trk Ft		\$30	4,460	\$133,800							
				Public Utilities													
				Utilities	Relocate/Remove		\$400,000			\$400,000							
				West End Interlocking Modifications and Additions													
					Signals and Comm.	Turnout		\$200,000	3	\$600,000							
					Signals and Comm.	Trk Ft		\$100	4,925	\$492,500	3725' plus two station tracks @600'						
					Tie Ins to Other Locations	Each		\$200,000	3	\$600,000							
12	4		Add Rush Line Commuter Trains														
					Add Connector from East End Interlocking to Rush Line												
				Grading	Grade for Connecting Track	Lin Ft		\$100	700	\$70,000							
				Trackwork	Build Connecting Track	Lin Ft		\$175	700	\$122,500							

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%			
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management
				Trackwork	Build Crossover to BNSF	Each		\$150,000	2	\$300,000					
				Trackwork	Add Turnouts to Interlocking	Each		\$200,000	2	\$400,000					
				Signals and Cd	Signals and Comm.	Trk Ft		\$100	700	\$70,000					
				Signals and Cd	Tie in to Other Locations	Each		\$200,000	4	\$800,000					
15	2		Build Flyover as an Alternate to the Duck-Under									\$40,212,000		\$52,275,600	\$60,117,000
			Build Flyover for Crossing BNSF, UP at East End												
				Structural	Structure	Lin Ft		\$7,500	4,600	\$34,500,000	Two track structure				
				Trackwork	Install DF Track	Trk Ft		\$260	9,200	\$2,392,000	Does not include Hoffman Ave. connection				
				Signals and Cd	Signals & Comm.	Trk Ft		\$100	9,200	\$920,000					
				Signals and Cd	Tie ins to Other Locations	Each		\$200,000	2	\$400,000					
				Environmental	Environmental Mitigation		\$2,000,000			\$2,000,000					
16	2		Build Duck Under for both UP Wye Tracks & BNSF Main Tracks									\$24,553,700		\$31,919,810	\$36,708,000
			Build Shoo-fly for UP												
				Grading	Build Shoo-fly Grade	Trk Ft		\$100	2,000	\$200,000					
				Trackwork	Build Shoo-fly Track	Trk Ft		\$175	2,000	\$350,000					
				Trackwork	Build Shoo-fly Turnout	Each		\$150,000	1	\$150,000					
				Signals and Cd	Signals and Comm.		\$300,000			\$300,000					
			Build New UP Alignment								Raises UP 7 feet at crossing of passenger leads				
				Structural	Build Retained Fill	Trk Ft		\$150	1,600	\$240,000	From a point east of the station concourse to crossing of leads				
				Grading	Grading for Balance of Track	Trk Ft		\$150	1,400	\$210,000	From point of crossing of passenger leads to 7th Street				
				Structural	Build Box Structure for RR Under		\$750,000			\$750,000					
				Trackwork	Build Track on New Alignment	Trk Ft		\$175	3,000	\$525,000					
				Demolition	Retire East Tail Turnout	Each		\$15,000	1	\$15,000					
				Demolition	Retire East Tail Track	Trk Ft		\$15	780	\$11,700					
				Demolition	Retire UP Turnout	Each		\$15,000	1	\$15,000					
				Trackwork	Build New Turnout for Escape	Each		\$150,000	1	\$150,000					

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PAHSE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency				
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
				Grading	Grade for New Terminal Escape Track	Trk Ft		\$100	600	\$60,000						
				Trackwork	Build New Terminal Escape Track	Trk Ft		\$175	400	\$70,000						
				Signals and Cd	Signals and Comm, Turnouts	Each		\$200,000	1	\$200,000						
				Signals and Cd	Tie ins to Other Locations	Each		\$200,000	4	\$800,000						
				Build Shoo-fly for BNSF												
				Grading	Build Shoo-fly Grade	Trk Ft		\$150	6,800	\$1,020,000	2000 feet per track, 2 tracks					
				Trackwork	Build Shoo-fly Track	Trk Ft		\$175	6,800	\$1,190,000						
				Trackwork	Build Shoo-fly Turnout 2	Each		\$125,000	2	\$250,000						
				Signals and Cd	Signals and Comm., Turnout	Each		\$200,000	2	\$400,000						
				Signals and Cd	Tie ins to Other Locations	Each		\$200,000	3	\$600,000						
				Build New BNSF Alignment												
				Structural	Build Retained Fill	Trk Ft		\$150	4,000	\$600,000	From southeast end to point of crossing of passenger leads					
				Grading	Grading for Balance of Track	Trk Ft		\$150	2,800	\$420,000	From point of crossing of passenger leads to 7th Street					
				Structural	Build Box Structure for RR Under		\$840,000			\$840,000						
				Trackwork	Build Track on New Alignment	Trk Ft		\$175	6,800	\$1,190,000						
				Trackwork	Build New Turnouts	Each		\$150,000	2	\$300,000						
				Signals and Cd	Signals and Comm., Turnouts	Each		\$200,000	2	\$400,000						
				Signals and Cd	Tie ins to Other Locations	Each		\$200,000	2	\$400,000						
				Signals and Cd	Modifications to 7th Street Interlocking		\$1,500,000			\$1,500,000	To account for grade elevation change					
				Environmental	Environmental Mitigation		\$500,000			\$500,000						
				Build Transition from Station Tracks to UP Wye												
				Grading	Excavation	Lin Ft		\$80	1,500	\$120,000						
				Grading	Grading	Lin Ft		\$225	1,500	\$337,500						
				Structural	Retaining Walls	Cu Yd		\$250	3,300	\$825,000						
				Drainage	Subgrade and Trackbed Drainage		\$400,000			\$400,000						
				Build Retained Cut from UP Wye to BNSF												
				Grading	Excavation	Lin Ft		\$80	2,500	\$200,000	Approximately level					

ST. PAUL MULTIMODAL TERMINAL

DETAILED ORDER OF MAGNITUDE COST ESTIMATE BY PHASE, FUNCTION, TASK AND SUBTASK

Item	Project Phase	Investment	Work task	General Investment Category	Sub Task	Unit of Measure	Lump Sum	Unit Price	Units	Cost	Comments	Contingency 30% Program Management 15%				
												Item Subtotal	Item Contingency	Investment Item with Contingency	Investment Item with Program Management	
				Grading	Grading	Lin Ft		\$225	2,500	\$562,500						
				Structural	Retaining Walls	Cu Yd		\$300	1,650	\$495,000						
				Drainage	Subgrade and Trackbed Drainage		\$400,000			\$400,000						
				Build Transition from BNSF to End of Project							\$0	Retained cut, 1% ascending grade				
				Grading	Excavation	Lin Ft		\$80	2,500	\$200,000						
				Grading	Grading	Lin Ft		\$225	2,500	\$562,500						
				Structural	Retaining Walls	Cu Yd		\$250	6,300	\$1,575,000						
				Drainage	Subgrade and Trackbed Drainage		\$400,000			\$400,000						
				Track Construction												
				Trackwork	Build Double Track Line			\$175	8,980	\$1,571,500						
				Special Drainage and Utility Issues												
				Drainage	Drainage		\$100,000			\$100,000						
				Drainage	Pumping Stations	Each		\$100,000	3	\$300,000						
				Public Utilities												
				Utilities	Relocate/Remove		\$50,000			\$50,000						
				Utilities	Relocate RR Fiber Optics		\$1,500,000			\$1,500,000						
				Install Train Control System												
				Signals and Co	Signals and Comm.	Trk Ft		\$100	8,980	\$898,000						
				Signals and Co	Tie ins to Other Locations	Each		\$200,000	2	\$400,000						