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# APPENDICES

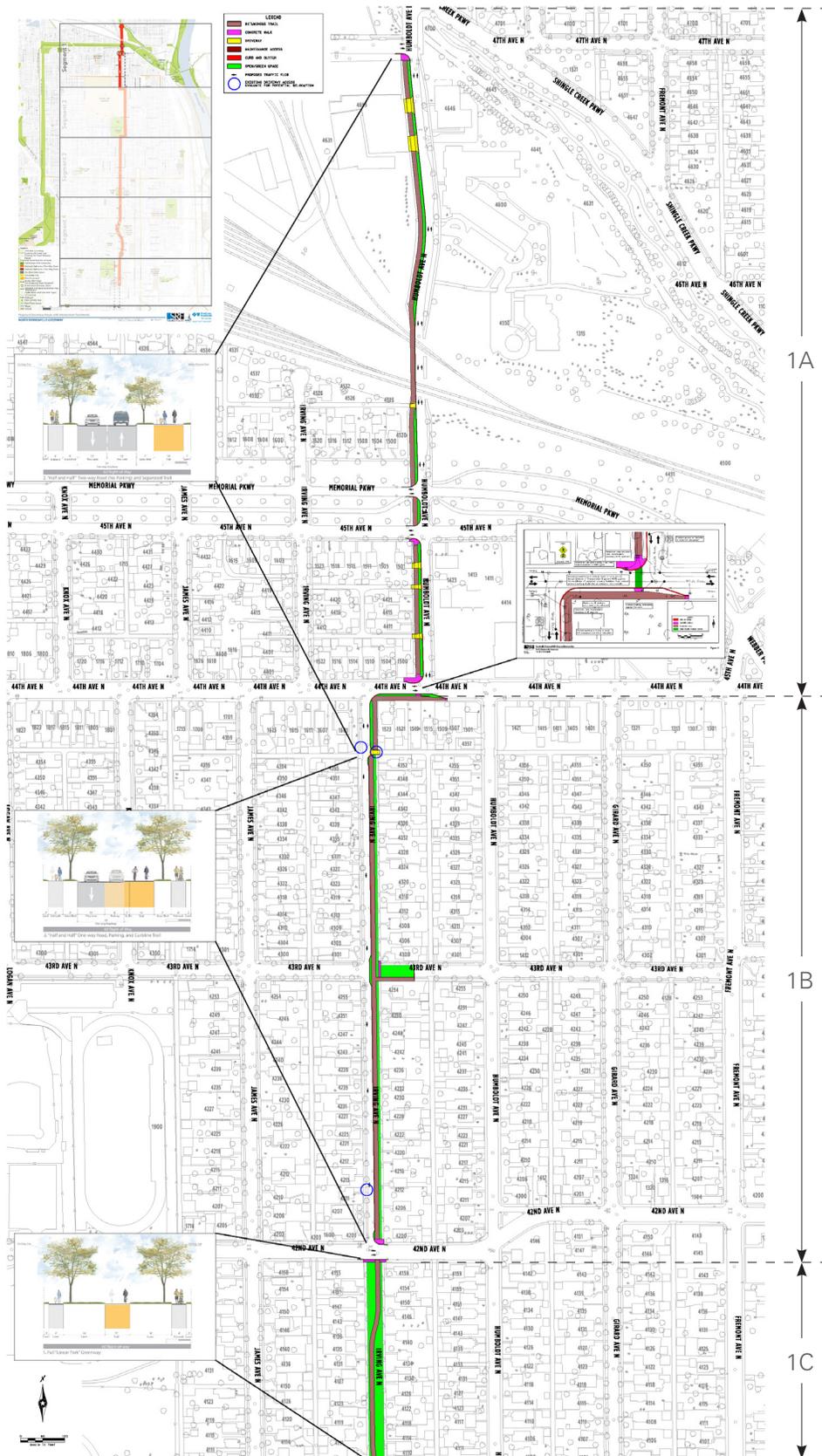
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- A. Proposed Greenway: Conceptual Layout
- B. Traffic Data
- C. Utility Mapping
- D. Preliminary Opinion of Greenway Construction Cost

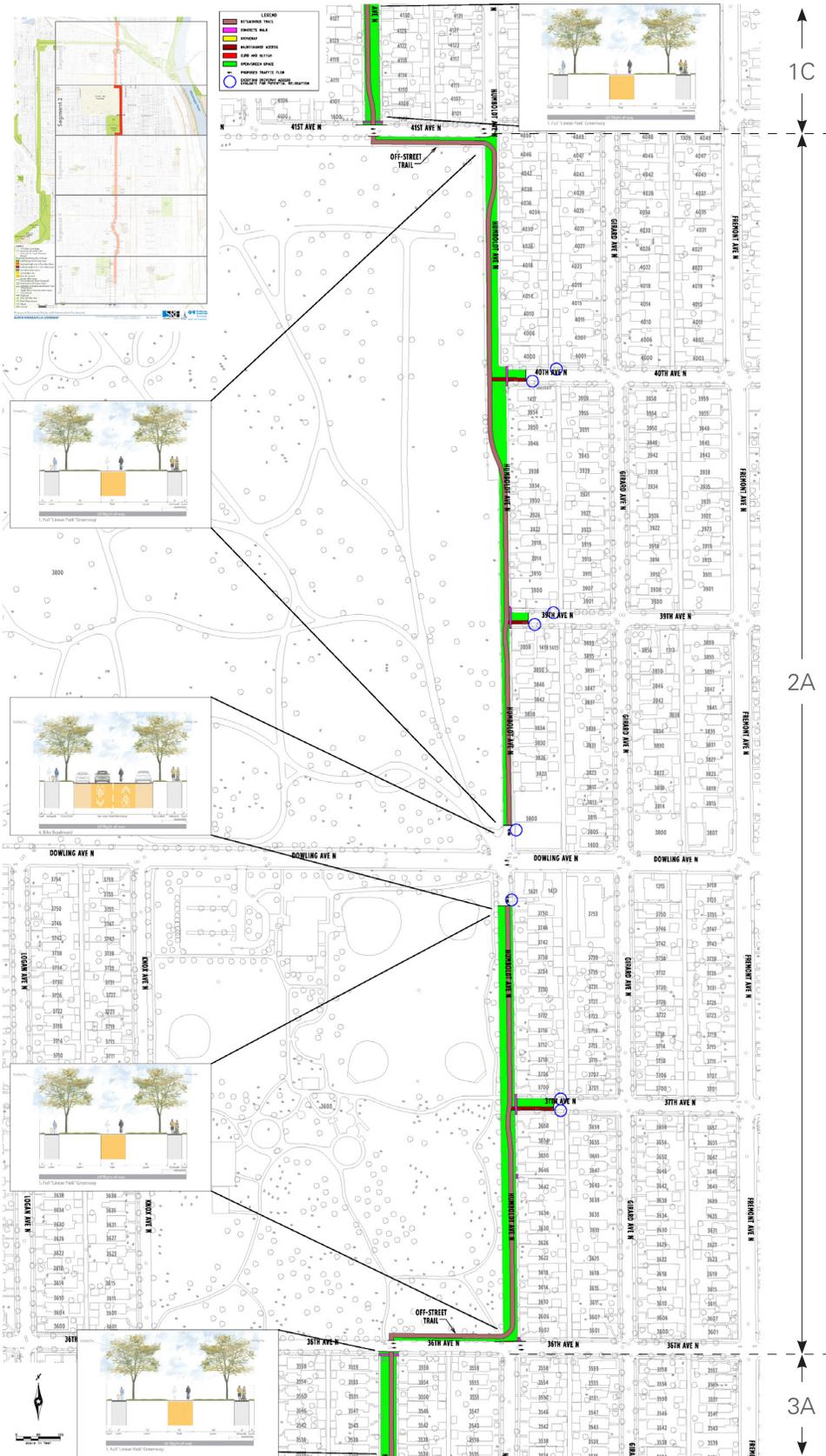


# APPENDIX A PROPOSED GREENWAY: CONCEPTUAL LAYOUT

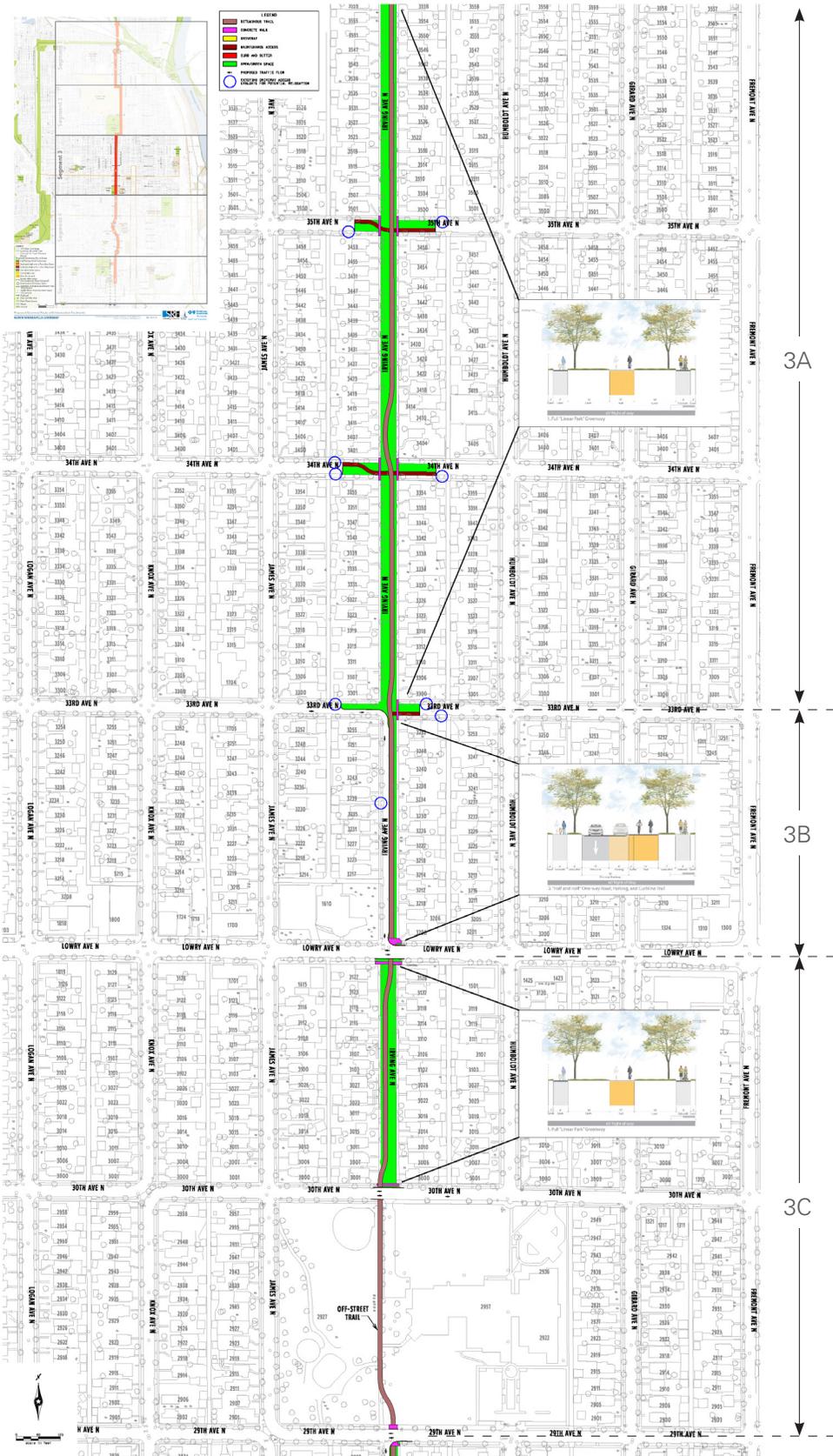
## Proposed Greenway Layout: Segment 1



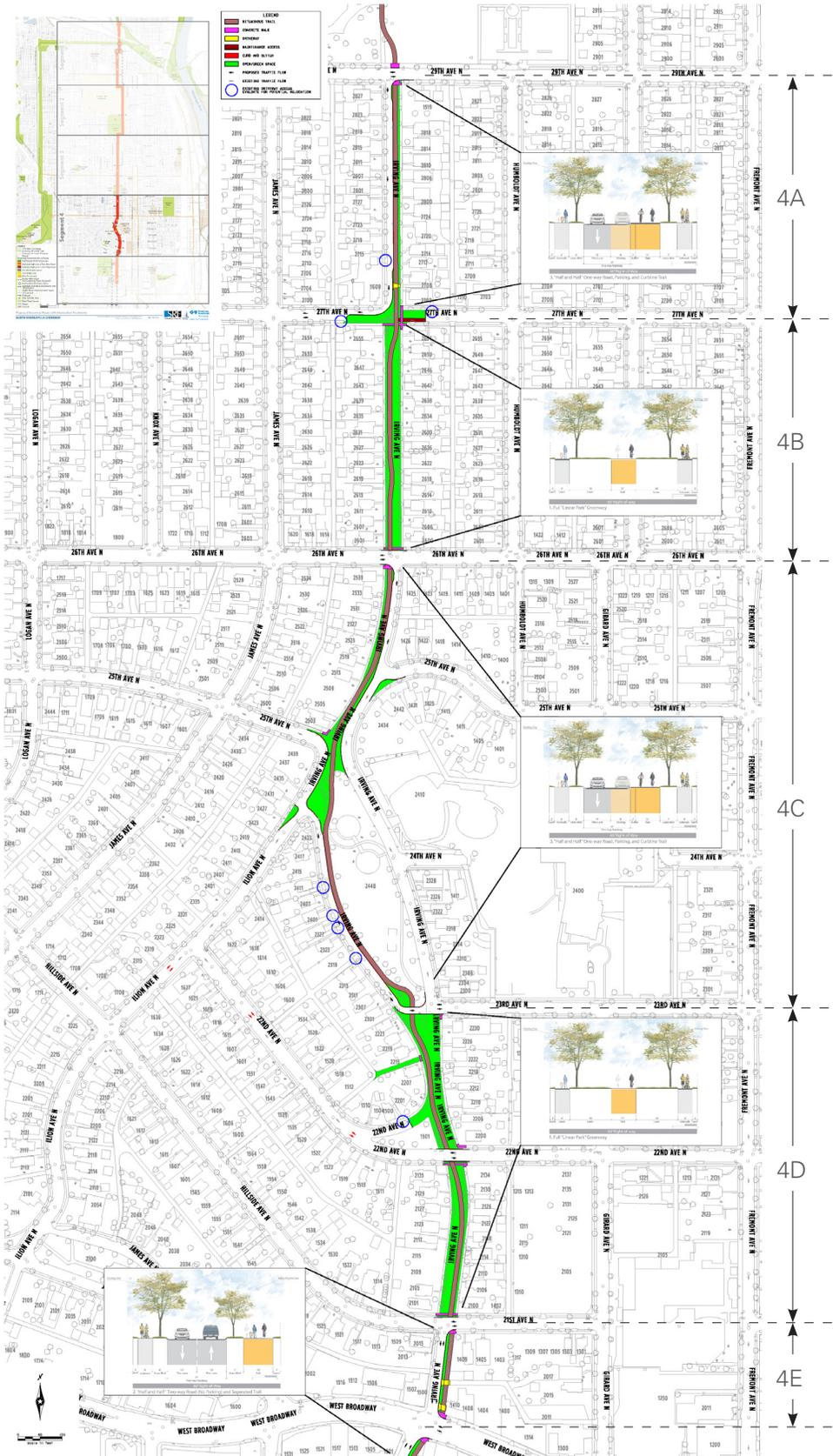
# Proposed Greenway Layout: Segment 2



# Proposed Greenway Layout: Segment 3



# Proposed Greenway Layout: Segment 4



# Proposed Greenway Layout: Segment 5





# APPENDIX B TRAFFIC DATA

## North Minneapolis Greenway Parking Inventory

Assumptions for South of Golden Valley Road and North of 44th Avenue:		Assumptions for North of Golden Valley Road:	
16 cars each side	32 vehicles per block	Roads with alleys 570 feet, 28 cars each side	56 vehicles per block
10 cars each side	20 vehicles per block	Roads with driveways 410 feet, 20 cars each side	40 vehicles per block
<b>Parking Usage</b>			
From RR Tracks		To 44th Avenue	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
3	Neither	N	N
		Number of Blocks	Number of parking spaces
		2	64
			Parking Density
			5%
From 44th Avenue Webber Pkwy		To Dowling Avenue	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
40	Alleys	N	N
		Yes-North, until 41st	
		6	252
			Parking Density
			16%
			21%
			17%
*One way Humboldt has parking only on one side for 3 blocks			
*Road Tube popped up on Humboldt			
From Dowling Avenue		To Lowry Avenue	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
63	Alleys	N	N
		Number of Blocks	Number of parking spaces
		7	392
			Parking Density
			16%
			24%
			32%
From Lowry Avenue		To 26th Avenue	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
40	Alleys	N	N
		Number of Blocks	Number of parking spaces
		4	224
			Parking Density
			18%
			25%
			18%
From 26th Avenue		To Golden Valley Road	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
57	Alleys	N	N
		Number of Blocks	Number of parking spaces
		5	280
			Parking Density
			20%
			19%
			15%
*Divided Roadways by park in the middle			
From Golden Valley Road		To 16th Avenue	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
14	Alleys	West side on school days from 16th Ave to Irving Ave 8am-4pm	N
		Number of Blocks	Number of parking spaces
		3	96
			Parking Density
			15%
From James Avenue		To Fremont Avenue	
Number of Cars Parked	Driveways or Alley	No Parking Zones?	Bike Lanes?
4	Alleys	James to Irving-School days 8am-4pm	N
		Number of Blocks	Number of parking spaces
		3	96
			Parking Density
			4%

**North Minneapolis Greenway  
Parking Inventory**

From		To		Plymouth Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>Fremont Avenue</b>	0	Alleys	Yes-All	Yes-South	3	0	0%
From Golden Valley Road		To Plymouth Avenue		Plymouth Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>Irving Avenue</b>	42	Alleys	No Parking Zones?	N	6	192	2%
From James Avenue		To Morgan Avenue		Morgan Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>Golden Valley Road</b>	13	Driveways	N	N	1	20	65%
*Event going on at park, football practice??							
From Golden Valley Road		To 16th Avenue		16th Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>Morgan Avenue</b>	17	Alleys	N	Yes-South, parking on both sides	3	96	18%
From Morgan Avenue		To Knox Avenue		Knox Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>16th Avenue</b>	4	Both	N	N	2	64	6%
From 16th Avenue		To 14th Avenue		14th Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>Knox Avenue</b>	8	Alleys	Yes-East Side on School days 8am-4pm	Yes-South	2	64	13%
From Knox Avenue		To Fremont Avenue		Fremont Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>14th Avenue</b>	11	Alleys	Yes-Both sides from Knox to Irving 8am-4pm	N	4	128	9%
From 14th Avenue		To Plymouth Avenue		Plymouth Avenue		Parking Density	
Route	Number of Cars Parked	Driveways or Alley	No Parking Zones?	One Way?	Number of Blocks	Number of parking spaces	Parking Density
<b>Fremont Avenue</b>	0	Alleys	Yes-All	Yes-South	1	0	0%

**Notes:**

Emerson and Fremont are one way (Fremont-South, Emerson-North) with Bike Lanes and 2 driving lanes from Plymouth Ave to 33rd Avenue  
 Did not include School Zone no parking zones in density calculation  
 Assumptions for South of Golden Valley Road:  
 Blocks 350 feet long  
 30 feet away from Stop Signs  
 Driveways 12 feet wide, 8 driveways per block  
 Cars are 20 feet long  
 Roads with Alleys 320 feet  
 16 cars each side  
 Roads with driveways 220 feet  
 10 cars each side  
 Assumptions for North of Golden Valley Road:  
 Blocks are 600 feet long  
 30 feet away from stop signs  
 Driveways 12 feet wide, 13 driveways per block  
 Cars are 20 feet long  
 Roads with alleys 570 feet, 28 cars each side  
 Roads with driveways 410 feet, 20 cars each side

North Minneapolis Greenway  
 March 27, 2014 (Overnight)  
 Parking Inventory

Parking Counts - Collected March 27, 2014 - Overnight (approximately 4:30 AM)

Greenway Route	Between		Length	Supply	Demand	% Occupied
Irving Ave*	Plymouth	14th Ave	330	15	7	47%
Irving Ave	14th Ave	15th Ave	320	15	5	34%
Irving Ave	15th Ave	16th Ave	320	15	5	34%
Irving Ave	16th Ave	17th Ave	320	15	6	41%
Irving Ave	17th Ave	18th Ave	320	15	11	76%
18th Ave	James Ave	Irving Ave	260	12	3	25%
Irving Ave*	18th Ave	Golden Valley Rd	360	16	7	43%
Irving Ave	Golden Valley Rd	Broadway Ave	200	9	0	0%
Irving Ave	Broadway Ave	21st Ave	180	8	3	37%
Irving Ave*	21st Ave	22nd Ave	340	15	12	78%
Irving Ave	22nd Ave	23rd Ave	300	14	4	29%
Irving Ave West*	23rd Ave	25th Ave	640	29	14	48%
Irving Ave East	23rd Ave	25th Ave	640	29	5	17%
Irving Ave	25th Ave	26th Ave	460	21	7	33%
Irving Ave	26th Ave	27th Ave	560	25	14	55%
Irving Ave*	27th Ave	29th Ave	520	24	17	72%
Irving Ave	29th Ave	30th Ave	0	0	0	0%
Irving Ave	30th Ave	Lowry Ave	560	25	15	59%
Irving Ave	Lowry Ave	33rd Ave	560	25	9	35%
Irving Ave	33rd Ave	34th Ave	560	25	16	63%
Irving Ave	34th Ave	35th Ave	560	25	11	43%
Irving Ave	35th Ave	36th Ave	560	25	23	90%
36th Ave	Irving Ave	Humboldt Ave	260	12	3	25%
Humboldt Ave	36th Ave	37th Ave	580	26	4	15%
Humboldt Ave	37th Ave	Dowling Ave	580	26	4	15%
Humboldt Ave	Dowling Ave	39th Ave	580	26	6	23%
Humboldt Ave	39th Ave	40th Ave	580	26	6	23%
Humboldt Ave	40th Ave	41st Ave	580	26	7	27%
41st Ave	Humboldt Ave	Irving Ave	220	10	2	20%
Irving Ave*	41st Ave	42nd Ave	520	24	22	93%
Irving Ave	42nd Ave	43rd Ave	680	31	12	39%
Irving Ave*	43rd Ave	44th Ave	610	28	23	83%
Humboldt Ave	44th Ave	45th Ave	340	15	0	0%
Humboldt Ave*	45th Ave	47th Ave	0	0	0	0%

\*Denotes a block containing a No-Parking Zone or a Handicapped Parking Spot

Greenway Route Alternatives

Greenway Route	Between		Length	Supply	Demand	% Occupied
James Ave*	Plymouth	14th Ave	310	14	11	78%
James Ave	14th Ave	15th Ave	320	15	0	0%
James Ave	15th Ave	16th Ave	320	15	0	0%
James Ave	16th Ave	17th Ave	320	15	5	34%
James Ave	17th Ave	18th Ave	320	15	6	41%
James Ave	18th Ave	Golden Valley Rd	380	17	2	12%
Golden Valley Road*	James Ave	Irving Ave	130	6	1	17%
Humboldt Ave*	41st Ave	42nd Ave	560	25	6	24%
Humboldt Ave	42nd Ave	43rd Ave	680	31	12	39%
Humboldt Ave	43rd Ave	44th Ave	660	30	15	50%

\*Denotes a block containing a No-Parking Zone or a Handicapped Parking Spot

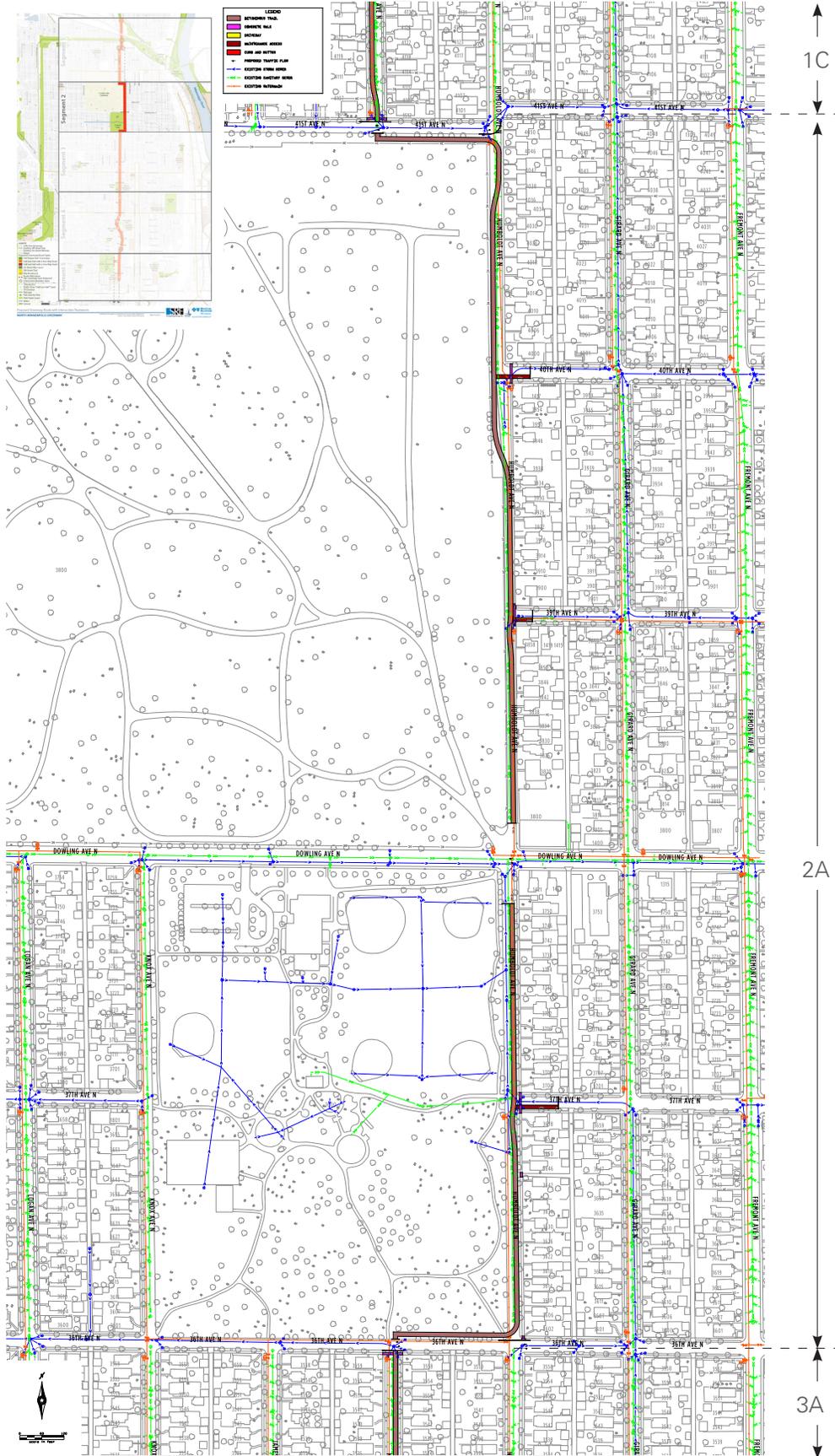


# APPENDIX C UTILITY MAPPING

## Proposed Greenway Utilities: Segment 1

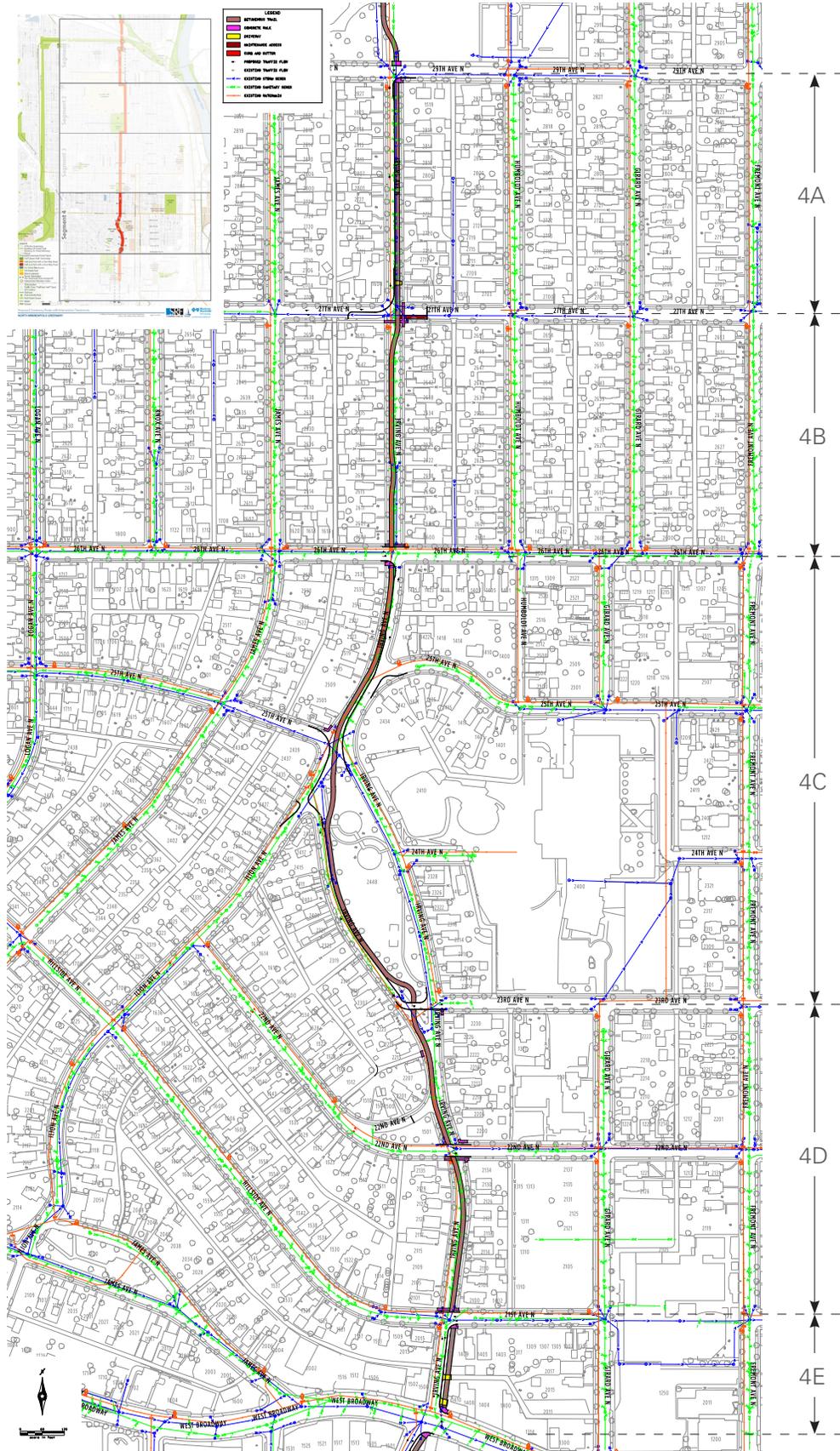


# Proposed Greenway Utilities: Segment 2

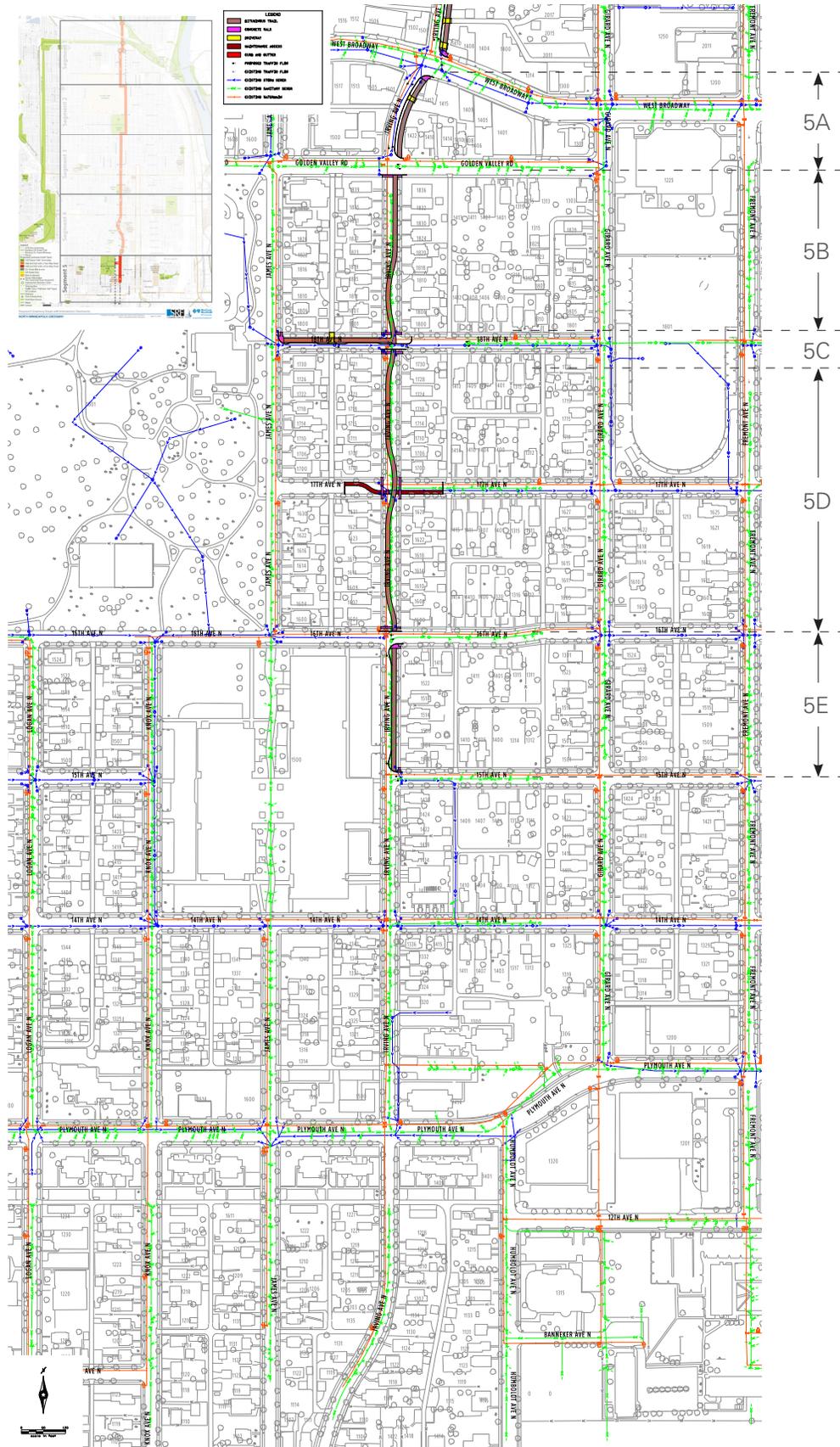




# Proposed Greenway Utilities: Segment 4



# Proposed Greenway Utilities: Segment 5





# APPENDIX D PRELIMINARY OPINION OF GREENWAY CONSTRUCTION COST

UNIT LEGEND: <u>LS</u> =Lump Sum, <u>SF</u> =Square Feet, <u>SY</u> =Square Yard, <u>EA</u> =Each, <u>LF</u> =Lineal Foot, <u>CY</u> =Cubic Yards, <u>AC</u> =Acre, <u>RD STA</u> =Road Station					
North Minneapolis Greenway Segment 1A Two-Way (0.4 miles) Preliminary Construction Estimate (2014 Dollars)					
Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					\$0
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	2	EA	\$1,500	\$3,000
3	Remove Catch Basin	5	EA	\$400	\$2,000
	Adjust Manhole	5	EA	\$300	\$1,500
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					\$6,500
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	51	EA	\$500	\$25,500
	Clearing & Grubbing	21	EA	\$300	\$6,300
	Remove Curb and Gutter, Walk, and Pavement	2230	LF	\$17	\$37,910
	Relocate Signs		EA	\$40	\$0
5	Signage	70	SF	\$50	\$3,500
6	Concrete Curb and Gutter and Bituminous Patching	2340	LF	\$25	\$58,500
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	2010	LF	\$52	\$104,520
	Concrete Ped Ramp	1440	SF	\$5	\$7,200
	Truncated Domes	290	SF	\$40	\$11,600
	Bituminous Driveway Pavement	410	SY	\$14	\$5,740
<b>Section 3 -Trail Construction Total:</b>					\$260,770
				<b>SUBTOTAL 1</b>	<b>\$270,000</b>
9				Amenities, 25%	\$68,000
10				Turf Establishment & Erosion Control, 6%	\$16,000
11				Minneapolis Standard Lighting	\$724,000
				<b>SUBTOTAL 2</b>	<b>\$1,078,000</b>
				Construction Surveying, 8%	\$86,000
				Traffic Control, 3%	\$32,000
				Mobilization, 5%	\$54,000
				<b>SUBTOTAL 3</b>	<b>\$1,250,000</b>
				Construction Contingency, 20%	\$250,000
				<b>CONSTRUCTION SUBTOTAL</b>	<b>\$1,500,000</b>
				Design & Engineering Contingency, 20%	\$300,000
				<b>SEGMENT 1A TOTAL</b>	<b>\$1,800,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 1B One-Way (0.3 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	2	EA	\$400	\$800
	Adjust Manhole	9	EA	\$300	\$2,700
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$3,500</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	2	EA	\$300	\$600
	Remove Curb and Gutter, Walk, and Pavement	1590	LF	\$17	\$27,030
	Relocate Signs		EA	\$40	\$0
5	Signage	50	SF	\$50	\$2,500
6	Concrete Curb and Gutter and Bituminous Patching	1500	LF	\$25	\$37,500
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	1370	LF	\$52	\$71,240
	Concrete Ped Ramp	610	SF	\$5	\$3,050
	Truncated Domes	120	SF	\$40	\$4,800
	Bituminous Driveway Pavement	20	SY	\$14	\$280
<b>Section 3 -Trail Construction Total:</b>					<b>\$147,000</b>
<b>SUBTOTAL 1</b>					<b>\$150,000</b>
9	Amenities, 25%				\$38,000
10	Turf Establishment & Erosion Control, 6%				\$9,000
11	Minneapolis Standard Lighting				\$493,000
<b>SUBTOTAL 2</b>					<b>\$690,000</b>
	Construction Surveying, 8%				\$55,000
	Traffic Control, 3%				\$21,000
	Mobilization, 5%				\$35,000
<b>SUBTOTAL 3</b>					<b>\$801,000</b>
	Construction Contingency, 20%				\$160,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$961,000</b>
	Design & Engineering Contingency, 20%				\$192,000
<b>SEGMENT 1B TOTAL</b>					<b>\$1,153,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 1C Full Linear (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	0	EA	\$400	\$0
	Adjust Manhole	0	EA	\$300	\$0
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$0</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	980	LF	\$17	\$16,660
	Relocate Signs		EA	\$40	\$0
5	Signage	20	SF	\$50	\$1,000
6	Concrete Curb and Gutter and Bituminous Patching	90	LF	\$25	\$2,250
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7,8	12-Foot Wide Paved Trail, 6" Thickness	470	LF	\$104	\$48,880
	Concrete Ped Ramp	350	SF	\$5	\$1,750
	Truncated Domes	30	SF	\$40	\$1,200
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$71,740</b>
<b>SUBTOTAL 1</b>					<b>\$70,000</b>
9	Amenities, 50%				\$35,000
10	Turf Establishment & Erosion Control, 6%				\$4,000
11	Minneapolis Standard Lighting				\$122,000
<b>SUBTOTAL 2</b>					<b>\$231,000</b>
	Construction Surveying, 8%				\$18,000
	Traffic Control, 3%				\$7,000
	Mobilization, 5%				\$12,000
<b>SUBTOTAL 3</b>					<b>\$268,000</b>
	Construction Contingency, 20%				\$54,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$322,000</b>
	Design & Engineering Contingency, 20%				\$64,000
<b>SEGMENT 1C TOTAL</b>					<b>\$386,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 2A Full Linear (.8 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					\$0
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	1	EA	\$1,500	\$1,500
3	Remove Catch Basin	10	EA	\$400	\$4,000
	Adjust Manhole	0	EA	\$300	\$0
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					\$5,500
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	7690	LF	\$17	\$130,730
	Relocate Signs		EA	\$40	\$0
5	Signage	140	SF	\$50	\$7,000
6	Concrete Curb and Gutter and Bituminous Patching	530	LF	\$25	\$13,250
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	270	LF	\$86	\$23,220
7,8	12-Foot Wide Paved Trail, 6" Thickness	4240	LF	\$104	\$440,960
	Concrete Ped Ramp	1570	SF	\$5	\$7,850
	Truncated Domes	240	SF	\$40	\$9,600
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					\$632,610
<b>SUBTOTAL 1</b>					<b>\$640,000</b>
9	Amenities, 50%				\$320,000
10	Turf Establishment & Erosion Control, 6%				\$38,000
11	Minneapolis Standard Lighting				\$1,102,000
<b>SUBTOTAL 2</b>					<b>\$2,100,000</b>
	Construction Surveying, 8%				\$168,000
	Traffic Control, 3%				\$63,000
	Mobilization, 5%				\$105,000
<b>SUBTOTAL 3</b>					<b>\$2,436,000</b>
	Construction Contingency, 20%				\$487,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$2,923,000</b>
	Design & Engineering Contingency, 20%				\$585,000
<b>SEGMENT 2A TOTAL</b>					<b>\$3,508,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 3A Full Linear 1 (0.4 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	8	EA	\$400	\$3,200
	Adjust Manhole	3	EA	\$300	\$900
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$4,100</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	4390	LF	\$17	\$74,630
	Relocate Signs		EA	\$40	\$0
5	Signage	60	SF	\$50	\$3,000
6	Concrete Curb and Gutter and Bituminous Patching	140	LF	\$25	\$3,500
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	500	LF	\$86	\$43,000
7,8	12-Foot Wide Paved Trail, 6" Thickness	1860	LF	\$104	\$193,440
	Concrete Ped Ramp	1320	SF	\$5	\$6,600
	Truncated Domes	100	SF	\$40	\$4,000
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$328,170</b>
<b>SUBTOTAL 1</b>					<b>\$330,000</b>
9	Amenities, 50%				\$165,000
10	Turf Establishment & Erosion Control, 6%				\$20,000
11	Minneapolis Standard Lighting				\$484,000
<b>SUBTOTAL 2</b>					<b>\$999,000</b>
	Construction Surveying, 8%				\$80,000
	Traffic Control, 3%				\$30,000
	Mobilization, 5%				\$50,000
<b>SUBTOTAL 3</b>					<b>\$1,159,000</b>
	Construction Contingency, 20%				\$232,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$1,391,000</b>
	Design & Engineering Contingency, 20%				\$278,000
<b>SEGMENT 3A TOTAL</b>					<b>\$1,669,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 3B One-Way (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	4	EA	\$400	\$1,600
	Adjust Manhole	5	EA	\$300	\$1,500
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$3,100</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	940	LF	\$17	\$15,980
	Relocate Signs		EA	\$40	\$0
5	Signage	20	SF	\$50	\$1,000
6	Concrete Curb and Gutter and Bituminous Patching	880	LF	\$25	\$22,000
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	80	LF	\$86	\$6,880
7	12-Foot Wide Paved Trail, 3" Thickness	680	LF	\$52	\$35,360
	Concrete Ped Ramp	790	SF	\$5	\$3,950
	Truncated Domes	80	SF	\$40	\$3,200
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$88,370</b>
<b>SUBTOTAL 1</b>					<b>\$90,000</b>
9	Amenities, 25%				\$23,000
10	Turf Establishment & Erosion Control, 6%				\$5,000
11	Minneapolis Standard Lighting				\$245,000
<b>SUBTOTAL 2</b>					<b>\$363,000</b>
	Construction Surveying, 8%				\$29,000
	Traffic Control, 3%				\$11,000
	Mobilization, 5%				\$18,000
<b>SUBTOTAL 3</b>					<b>\$421,000</b>
	Construction Contingency, 20%				\$84,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$505,000</b>
	Design & Engineering Contingency, 20%				\$101,000
<b>SEGMENT 3B TOTAL</b>					<b>\$606,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 3C Full Linear 2 (0.2 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	2	EA	\$400	\$800
	Adjust Manhole	2	EA	\$300	\$600
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$1,400</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	1	EA	\$300	\$300
	Remove Curb and Gutter, Walk, and Pavement	1450	LF	\$17	\$24,650
	Relocate Signs		EA	\$40	\$0
5	Signage	40	SF	\$50	\$2,000
6	Concrete Curb and Gutter and Bituminous Patching	240	LF	\$25	\$6,000
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7,8	12-Foot Wide Paved Trail, 6" Thickness	1310	LF	\$104	\$136,240
	Concrete Ped Ramp	1090	SF	\$5	\$5,450
	Truncated Domes	100	SF	\$40	\$4,000
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$178,640</b>
<b>SUBTOTAL 1</b>					<b>\$180,000</b>
9	Amenities, 50%				\$90,000
10	Turf Establishment & Erosion Control, 6%				\$11,000
11	Minneapolis Standard Lighting				\$341,000
<b>SUBTOTAL 2</b>					<b>\$622,000</b>
	Construction Surveying, 8%				\$50,000
	Traffic Control, 3%				\$19,000
	Mobilization, 5%				\$31,000
<b>SUBTOTAL 3</b>					<b>\$722,000</b>
	Construction Contingency, 20%				\$144,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$866,000</b>
	Design & Engineering Contingency, 20%				\$173,000
<b>SEGMENT 3C TOTAL</b>					<b>\$1,039,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 4A One Way 1 (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	3	EA	\$400	\$1,200
	Adjust Manhole	9	EA	\$300	\$2,700
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$3,900</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	1030	LF	\$17	\$17,510
	Relocate Signs		EA	\$40	\$0
5	Signage	20	SF	\$50	\$1,000
6	Concrete Curb and Gutter and Bituminous Patching	880	LF	\$25	\$22,000
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	80	LF	\$86	\$6,880
7	12-Foot Wide Paved Trail, 3" Thickness	680	LF	\$52	\$35,360
	Concrete Ped Ramp	610	SF	\$5	\$3,050
	Truncated Domes	80	SF	\$40	\$3,200
	Bituminous Driveway Pavement	30	SY	\$14	\$420
<b>Section 3 -Trail Construction Total:</b>					<b>\$89,420</b>
<b>SUBTOTAL 1</b>					<b>\$90,000</b>
9	Amenities, 25%				\$23,000
10	Turf Establishment & Erosion Control, 6%				\$5,000
11	Minneapolis Standard Lighting				\$245,000
<b>SUBTOTAL 2</b>					<b>\$363,000</b>
	Construction Surveying, 8%				\$29,000
	Traffic Control, 3%				\$11,000
	Mobilization, 5%				\$18,000
<b>SUBTOTAL 3</b>					<b>\$421,000</b>
	Construction Contingency, 20%				\$84,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$505,000</b>
	Design & Engineering Contingency, 20%				\$101,000
<b>SEGMENT 4A TOTAL</b>					<b>\$606,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 4B Full Linear 1 (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					\$0
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	2	EA	\$400	\$800
	Adjust Manhole	1	EA	\$300	\$300
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					\$1,100
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	1330	LF	\$17	\$22,610
	Relocate Signs		EA	\$40	\$0
5	Signage	20	SF	\$50	\$1,000
6	Concrete Curb and Gutter and Bituminous Patching	80	LF	\$25	\$2,000
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7,8	12-Foot Wide Paved Trail, 6" Thickness	650	LF	\$104	\$67,600
	Concrete Ped Ramp	510	SF	\$5	\$2,550
	Truncated Domes	30	SF	\$40	\$1,200
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					\$96,960
<b>SUBTOTAL 1</b>					<b>\$100,000</b>
9	Amenities, 50%				\$50,000
10	Turf Establishment & Erosion Control, 6%				\$6,000
11	Minneapolis Standard Lighting				\$169,000
<b>SUBTOTAL 2</b>					<b>\$325,000</b>
	Construction Surveying, 8%				\$26,000
	Traffic Control, 3%				\$10,000
	Mobilization, 5%				\$16,000
<b>SUBTOTAL 3</b>					<b>\$377,000</b>
	Construction Contingency, 20%				\$75,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$452,000</b>
	Design & Engineering Contingency, 20%				\$90,000
<b>SEGMENT 4B TOTAL</b>					<b>\$542,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 4C One-Way 2 (0.3 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	6	EA	\$400	\$2,400
	Adjust Manhole	10	EA	\$300	\$3,000
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$5,400</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	2	EA	\$300	\$600
	Remove Curb and Gutter, Walk, and Pavement	1470	LF	\$17	\$24,990
	Relocate Signs		EA	\$40	\$0
5	Signage	50	SF	\$50	\$2,500
6	Concrete Curb and Gutter and Bituminous Patching	1820	LF	\$25	\$45,500
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	1390	LF	\$52	\$72,280
	Concrete Ped Ramp	370	SF	\$5	\$1,850
	Truncated Domes	80	SF	\$40	\$3,200
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$150,920</b>
<b>SUBTOTAL 1</b>					<b>\$160,000</b>
9	Amenities, 25%				\$40,000
10	Turf Establishment & Erosion Control, 6%				\$10,000
11	Minneapolis Standard Lighting				\$500,000
<b>SUBTOTAL 2</b>					<b>\$710,000</b>
	Construction Surveying, 8%				\$57,000
	Traffic Control, 3%				\$21,000
	Mobilization, 5%				\$36,000
<b>SUBTOTAL 3</b>					<b>\$824,000</b>
	Construction Contingency, 20%				\$165,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$989,000</b>
	Design & Engineering Contingency, 20%				\$198,000
<b>SEGMENT 4C TOTAL</b>					<b>\$1,187,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 4D Full Linear 2 (0.2 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	5	EA	\$400	\$2,000
	Adjust Manhole	2	EA	\$300	\$600
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$2,600</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	2050	LF	\$17	\$34,850
	Relocate Signs		EA	\$40	\$0
5	Signage	30	SF	\$50	\$1,500
6	Concrete Curb and Gutter and Bituminous Patching	400	LF	\$25	\$10,000
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7,8	12-Foot Wide Paved Trail, 6" Thickness	860	LF	\$104	\$89,440
	Concrete Ped Ramp	1000	SF	\$5	\$5,000
	Truncated Domes	120	SF	\$40	\$4,800
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$145,590</b>
<b>SUBTOTAL 1</b>					<b>\$150,000</b>
9	Amenities, 50%				\$75,000
10	Turf Establishment & Erosion Control, 6%				\$9,000
11	Minneapolis Standard Lighting				\$224,000
<b>SUBTOTAL 2</b>					<b>\$458,000</b>
	Construction Surveying, 8%				\$37,000
	Traffic Control, 3%				\$14,000
	Mobilization, 5%				\$23,000
<b>SUBTOTAL 3</b>					<b>\$532,000</b>
	Construction Contingency, 20%				\$106,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$638,000</b>
	Design & Engineering Contingency, 20%				\$128,000
<b>SEGMENT 4D TOTAL</b>					<b>\$766,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 4E Two-Way (0.04 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole	1	EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	1	EA	\$400	\$400
	Adjust Manhole	1	EA	\$300	\$300
	Revise Traffic Signal	0.25	EA	\$180,000	\$45,000
<b>Section 2 - Utility Relocation Total:</b>					<b>\$45,700</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	6	EA	\$500	\$3,000
	Clearing & Grubbing	3	EA	\$300	\$900
	Remove Curb and Gutter, Walk, and Pavement	270	LF	\$17	\$4,590
	Relocate Signs		EA	\$40	\$0
5	Signage	10	SF	\$50	\$500
6	Concrete Curb and Gutter and Bituminous Patching	290	LF	\$25	\$7,250
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	230	LF	\$52	\$11,960
	Concrete Ped Ramp	420	SF	\$5	\$2,100
	Truncated Domes	100	SF	\$40	\$4,000
	Bituminous Driveway Pavement	80	SY	\$14	\$1,120
<b>Section 3 - Trail Construction Total:</b>					<b>\$35,420</b>
<b>SUBTOTAL 1</b>					<b>\$80,000</b>
9	Amenities, 25%				\$20,000
10	Turf Establishment & Erosion Control, 6%				\$5,000
11	Minneapolis Standard Lighting				\$83,000
<b>SUBTOTAL 2</b>					<b>\$188,000</b>
	Construction Surveying, 8%				\$15,000
	Traffic Control, 3%				\$6,000
	Mobilization, 5%				\$9,000
<b>SUBTOTAL 3</b>					<b>\$218,000</b>
	Construction Contingency, 20%				\$44,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$262,000</b>
	Design & Engineering Contingency, 20%				\$52,000
<b>SEGMENT 4E TOTAL</b>					<b>\$314,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 5A Two-Way (0.05 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	1	EA	\$400	\$400
	Adjust Manhole	0	EA	\$300	\$0
	Revise Traffic Signal	0.25	EA	\$180,000	\$45,000
<b>Section 2 - Utility Relocation Total:</b>					<b>\$45,400</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	6	EA	\$500	\$3,000
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	290	LF	\$17	\$4,930
	Relocate Signs		EA	\$40	\$0
5	Signage	10	SF	\$50	\$500
6	Concrete Curb and Gutter and Bituminous Patching	300	LF	\$25	\$7,500
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	240	LF	\$52	\$12,480
	Concrete Ped Ramp	240	SF	\$5	\$1,200
	Truncated Domes	80	SF	\$40	\$3,200
	Bituminous Driveway Pavement	30	SY	\$14	\$420
<b>Section 3 -Trail Construction Total:</b>					<b>\$33,230</b>
<b>SUBTOTAL 1</b>					<b>\$80,000</b>
9	Amenities, 25%				\$20,000
10	Turf Establishment & Erosion Control, 6%				\$5,000
11	Minneapolis Standard Lighting				\$86,000
<b>SUBTOTAL 2</b>					<b>\$191,000</b>
	Construction Surveying, 8%				\$15,000
	Traffic Control, 3%				\$6,000
	Mobilization, 5%				\$10,000
<b>SUBTOTAL 3</b>					<b>\$222,000</b>
	Construction Contingency, 20%				\$44,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$266,000</b>
	Design & Engineering Contingency, 20%				\$53,000
<b>SEGMENT 5A TOTAL</b>					<b>\$319,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 5B Full Linear 1 (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	0	EA	\$400	\$0
	Adjust Manhole	0	EA	\$300	\$0
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$0</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	920	LF	\$17	\$15,640
	Relocate Signs		EA	\$40	\$0
5	Signage	20	SF	\$50	\$1,000
6	Concrete Curb and Gutter and Bituminous Patching	70	LF	\$25	\$1,750
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7,8	12-Foot Wide Paved Trail, 6" Thickness	470	LF	\$104	\$48,880
	Concrete Ped Ramp	260	SF	\$5	\$1,300
	Truncated Domes	30	SF	\$40	\$1,200
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$69,770</b>
<b>SUBTOTAL 1</b>					<b>\$70,000</b>
9	Amenities, 50%				\$35,000
10	Turf Establishment & Erosion Control, 6%				\$4,000
11	Minneapolis Standard Lighting				\$122,000
<b>SUBTOTAL 2</b>					<b>\$231,000</b>
	Construction Surveying, 8%				\$18,000
	Traffic Control, 3%				\$7,000
	Mobilization, 5%				\$12,000
<b>SUBTOTAL 3</b>					<b>\$268,000</b>
	Construction Contingency, 20%				\$54,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$322,000</b>
	Design & Engineering Contingency, 20%				\$64,000
<b>SEGMENT 5B TOTAL</b>					<b>\$386,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 5C One-Way 1 (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	3	EA	\$400	\$1,200
	Adjust Manhole	2	EA	\$300	\$600
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$1,800</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	380	LF	\$17	\$6,460
	Relocate Signs		EA	\$40	\$0
5	Signage	10	SF	\$50	\$500
6	Concrete Curb and Gutter and Bituminous Patching	420	LF	\$25	\$10,500
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	360	LF	\$52	\$18,720
	Concrete Ped Ramp	520	SF	\$5	\$2,600
	Truncated Domes	80	SF	\$40	\$3,200
	Bituminous Driveway Pavement	50	SY	\$14	\$700
<b>Section 3 -Trail Construction Total:</b>					<b>\$42,680</b>
<b>SUBTOTAL 1</b>					<b>\$40,000</b>
9	Amenities, 25%				\$10,000
10	Turf Establishment & Erosion Control, 6%				\$2,000
11	Minneapolis Standard Lighting				\$130,000
<b>SUBTOTAL 2</b>					<b>\$182,000</b>
	Construction Surveying, 8%				\$15,000
	Traffic Control, 3%				\$5,000
	Mobilization, 5%				\$9,000
<b>SUBTOTAL 3</b>					<b>\$211,000</b>
	Construction Contingency, 20%				\$42,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$253,000</b>
	Design & Engineering Contingency, 20%				\$51,000
<b>SEGMENT 5C TOTAL</b>					<b>\$304,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 5D Full Linear 2 (0.2 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	8	EA	\$400	\$3,200
	Adjust Manhole	4	EA	\$300	\$1,200
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$4,400</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	2070	LF	\$17	\$35,190
	Relocate Signs		EA	\$40	\$0
5	Signage	30	SF	\$50	\$1,500
6	Concrete Curb and Gutter and Bituminous Patching	210	LF	\$25	\$5,250
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	290	LF	\$86	\$24,940
7,8	12-Foot Wide Paved Trail, 6" Thickness	820	LF	\$104	\$85,280
	Concrete Ped Ramp	1190	SF	\$5	\$5,950
	Truncated Domes	100	SF	\$40	\$4,000
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$162,110</b>
<b>SUBTOTAL 1</b>					<b>\$170,000</b>
9	Amenities, 50%				\$85,000
10	Turf Establishment & Erosion Control, 6%				\$10,000
11	Minneapolis Standard Lighting				\$213,000
<b>SUBTOTAL 2</b>					<b>\$478,000</b>
	Construction Surveying, 8%				\$38,000
	Traffic Control, 3%				\$14,000
	Mobilization, 5%				\$24,000
<b>SUBTOTAL 3</b>					<b>\$554,000</b>
	Construction Contingency, 20%				\$111,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$665,000</b>
	Design & Engineering Contingency, 20%				\$133,000
<b>SEGMENT 5D TOTAL</b>					<b>\$798,000</b>

Notes: See attached sheet for details.

**UNIT LEGEND:** LS=Lump Sum, SF=Square Feet, SY=Square Yard, EA=Each, LF=Lineal Foot, CY=Cubic Yards, AC=Acre, RD STA=Road Station

**North Minneapolis Greenway Segment 5E One-Way (0.1 miles)  
Preliminary Construction Estimate (2014 Dollars)**

Notes	Section 1 - Right-of-Way Acquisition	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
1	Purchase Easements for trail corridor		SF	\$10	\$0
<b>Section 1 - Right-of-Way Acquisition Total:</b>					<b>\$0</b>
Notes	Section 2 - Utility Relocation	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
2	Relocate Utility Pole		EA	\$0	\$0
	Relocate Hydrant and Adjust Gate Valve	0	EA	\$1,500	\$0
3	Remove Catch Basin	1	EA	\$400	\$400
	Adjust Manhole	2	EA	\$300	\$600
	Revise Traffic Signal	0	EA	\$180,000	\$0
<b>Section 2 - Utility Relocation Total:</b>					<b>\$1,000</b>
Notes	Section 3 - Trail Construction	Estimated Qty.	Unit	Unit Price (in Dollars)	Total (In Dollars)
4	Tree	0	EA	\$500	\$0
	Clearing & Grubbing	0	EA	\$300	\$0
	Remove Curb and Gutter, Walk, and Pavement	390	LF	\$17	\$6,630
	Relocate Signs		EA	\$40	\$0
5	Signage	10	SF	\$50	\$500
6	Concrete Curb and Gutter and Bituminous Patching	430	LF	\$25	\$10,750
7	10-Foot Wide Paved Maintenance Access, 6" Thickness	0	LF	\$86	\$0
7	12-Foot Wide Paved Trail, 3" Thickness	400	LF	\$52	\$20,800
	Concrete Ped Ramp	340	SF	\$5	\$1,700
	Truncated Domes	100	SF	\$40	\$4,000
	Bituminous Driveway Pavement	0	SY	\$14	\$0
<b>Section 3 -Trail Construction Total:</b>					<b>\$44,380</b>
<b>SUBTOTAL 1</b>					<b>\$50,000</b>
9	Amenities, 25%				\$13,000
10	Turf Establishment & Erosion Control, 6%				\$3,000
11	Minneapolis Standard Lighting				\$144,000
<b>SUBTOTAL 2</b>					<b>\$210,000</b>
	Construction Surveying, 8%				\$17,000
	Traffic Control, 3%				\$6,000
	Mobilization, 5%				\$11,000
<b>SUBTOTAL 3</b>					<b>\$244,000</b>
	Construction Contingency, 20%				\$49,000
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$293,000</b>
	Design & Engineering Contingency, 20%				\$59,000
<b>SEGMENT 5E TOTAL</b>					<b>\$352,000</b>

Notes: See attached sheet for details.

## ASSUMPTIONS

1. No additional right-of-way acquisition is required.
2. No cost for private utility relocations.
3. All catch basins outside of proposed curblines will be removed.
4. Tree quantity based on one tree per 40 linear feet of boulevard in two-way section.
5. Signing based on \$104 per mile of trail.
6. Average of one square yard of bituminous patching per linear foot of proposed curb.
7. Proposed trail cost includes grading, base and paving.
8. Full linear trail section will be a 6 inch thick trail section to allow for maintenance access.
9. Amenities that could be included in the greenway are not yet defined. An estimated amenity cost equaling 50 percent of the total estimated greenway construction cost was assumed for the full Linear Park greenway type and an estimated amenity cost equaling 25 percent of the total estimated greenway construction cost was assumed for both of the Half and Half greenway types.
10. Turf Establishment includes topsoil borrow.
11. Partial signal replacement at West Broadway Avenue.