

Item	Description	Unit				Unit Price	Alt 1	Alt 2	Alt 3
			Alt 1	Alt 2	Alt 3		Total (FY 2023)	Total (FY 2023)	Total (FY 2023)
1	Intermediate Pulse Stations	Station	28	28	28	\$ 437,066	\$ 12,237,848	\$ 12,237,848	\$ 12,237,848
2	Intermediate CTA Stations	Station	8	8	8	\$ 125,071	\$ 1,000,568	\$ 1,000,568	\$ 1,000,568
3	CTA/Pace Stations Terminals	Station	3	3	3	\$ 62,872	\$ 188,616	\$ 188,616	\$ 188,616
4	CTA 79th Bus Turnaround	Station	1	1	1	\$ 3,861,072	\$ 3,861,072	\$ 3,861,072	\$ 3,861,072
5	Bus Lane - Parking Lane Reduced (79th St)	Miles	0.19	0.19	0.19	\$ 260,842	\$ 49,560.00	\$ 49,560	\$ 49,560
6	Bus Lane - Parking Lane Reduced (100th-129th)	Miles			3.7	\$ 2,745,603	\$ -	\$ -	\$ 10,158,731
7	Bus Lane - Travel Lanes Reduced (98th-100th)	Miles	0.25	0.25	0.25	\$ 104,907	\$ 26,227	\$ 26,227	\$ 26,227
8	Bus Lane - Travel Lanes Reduced (129th-154th)	Miles		3.5	3.5	\$ 218,589	\$ -	\$ 756,317	\$ 756,317
9	Other (Civil/Drainage/Miscellaneous other works)	Unit	4,268,884	3,977,106	1,746,830	\$ 1	\$ 4,268,884	\$ 3,977,106	\$ 1,746,830
10	Traffic Signal Improvements at Queue Jumps	Intersection	25	21	10	\$ 30,000	\$ 750,000	\$ 630,000	\$ 300,000
<b>SUBTOTAL</b>							<b>\$ 22,382,775</b>	<b>\$ 22,727,314</b>	<b>\$ 30,325,769</b>
PRELIMINARY ENGINEERING 7% OF SUBTOTAL						7%	\$ 1,566,794	\$ 1,590,912	\$ 2,122,804
FINAL DESIGN 6% OF SUBTOTAL						6%	\$ 1,342,966	\$ 1,363,639	\$ 1,819,546
SURVEY COSTS 3% OF SUBTOTAL						3%	\$ 671,483	\$ 681,819	\$ 909,773
PROJECT MANAGEMENT 10% OF SUBTOTAL						10%	\$ 2,238,277	\$ 2,272,731	\$ 3,032,577
CONSTRUCTION MANAGEMENT 9% OF SUBTOTAL						9%	\$ 2,014,450	\$ 2,045,458	\$ 2,729,319
PERMIT COSTS 2% OF SUBTOTAL						2%	\$ 447,655	\$ 454,546	\$ 606,515
AGENCY STAFF 5% OF SUBTOTAL						5%	\$ 1,119,139	\$ 1,136,366	\$ 1,516,288
CONTINGENCY 35% OF SUBTOTAL						35%	\$ 7,833,971	\$ 7,954,560	\$ 10,614,019
<b>Total (without Pavement Resurfacing &amp; Colorization)</b>						<b>TOTAL</b>	<b>\$ 39,617,511</b>	<b>\$ 40,227,346</b>	<b>\$ 53,676,611</b>
11	Pavement Resurfacing - Subtotal	Unit	5,977,861	5,977,861	5,977,861	\$ 1	\$ 5,977,861	\$ 5,977,861	\$ 5,977,861
	Pavement Resurfacing - Soft Costs					77%	\$ 4,602,953	\$ 4,602,953	\$ 4,602,953
	Pavement Resurfacing - Total						\$ 10,580,813	\$ 10,580,813	\$ 10,580,813
<b>Total (with Pavement Resurfacing)</b>						<b>TOTAL</b>	<b>\$ 50,198,325</b>	<b>\$ 50,808,160</b>	<b>\$ 64,257,424</b>
12	Pavement Colorization - Subtotal	Sq. Yard	20,307	63,004	105,158	\$ 37.50	\$ 761,500	\$ 2,362,640	\$ 3,943,440
	Pavement Colorization - Soft Costs					77%	\$ 586,355	\$ 1,819,233	\$ 3,036,449
	Pavement Colorization - Total						\$ 1,347,855	\$ 4,181,873	\$ 6,979,889
<b>Total (with Pavement Resurfacing &amp; Colorization)</b>						<b>TOTAL</b>	<b>\$ 51,546,180</b>	<b>\$ 54,990,032</b>	<b>\$ 71,237,313</b>

South Halsted Bus Corridor Enhancement Project - Alternative 1							
Line No.	Cost Category	Quantity	Units	Unit Cost	Cost/mile	Total Cost	Remarks
1	Section 1: 79th - 98th Street	2.40	miles		\$546,774.59	\$1,312,259.02	
2	Signs	852	Each	\$515.00	\$182,825.00	\$438,780.00	\$275 post+\$35x5
3	Median Removal	217	Square Yard	\$51.00	\$4,604.17	\$11,050.00	IDOT 66993
4	Curb and Gutter Removal	1,236	Feet	\$11.00	\$5,665.00	\$13,596.00	
5	6" Sub base (Median)	217	Square Yard	\$14.00	\$1,263.89	\$3,033.33	
6	10" PCC (Median)	217	Square Yard	\$113.00	\$10,201.39	\$24,483.33	
7	HMA (Median)	24	Tons	\$226.00	\$2,285.11	\$5,484.27	
8	Concrete Curb and Gutter Installation	1,236	Feet	\$16.00	\$8,240.00	\$19,776.00	
9	Structures to be Adjusted	3	Each	\$1,100.00	\$1,375.00	\$3,300.00	One per mile
10	Bus Pads	640	Square Yard	\$128.00	\$34,133.33	\$81,920.00	8 CTA stations/. 1 bus pad/station.80 sq. yd/bus pad. <b>Cost breakdown as follows:</b> Pavement removal: \$18 Sub agg improvement:\$4/sy (assuming 1' depth) Subbase granular material:\$3 11.5" concrete: \$85 Total : \$110/sy in 2015 bid prices 2019: ~ \$120/sy
11	Bus Pads (local stops)	2,320	Square Yard	\$128.00	\$123,733.33	\$296,960.00	29 bus pad for local stations only. 80 sq. yd/bus pad
12	PCC Sidewalk (8")	1,640	Square Feet	\$8.00	\$5,467.12	\$13,121.08	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
13	Detectable Tile	640	Square Feet	\$58.00	\$15,466.67	\$37,120.00	8 stations. Assume 80 sqft/station
14	Pavement Marking	31,680	Linear Foot	\$4.00	\$62,800.00	\$126,720.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
15	Traffic Signal Improvement	7	Intersection	\$33,845.00	\$98,714.58	\$236,915.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
16	Section 2: 98th - 100th Street	0.25	miles		\$104,907.12	\$56,946.78	
17	Bus Pads (local stops)	240	Square Yard	\$128.00	\$122,880.00	\$30,720.00	3 local stops, 80 sq. yd/bus pad.
18	PCC Sidewalk (8")	171	Square Feet	\$8.00	\$5,467.12	\$1,366.78	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
19	Pavement Marking	5,940	Linear Foot	\$4.00	\$95,040.00	\$23,760.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
20	Structures to be Adjusted	1	Each	\$1,100.00	\$4,400.00	\$1,100.00	One per mile
21	Section 3: 100th - 129th Street	3.70	miles		\$706,446.56	\$2,613,852.28	
22	Signs	228	Each	\$515.00	\$31,735.14	\$117,420.00	
23	Pavement Removal (Median)	969	Square Yard	\$20.00	\$5,237.24	\$19,377.78	
24	Median Removal	1,222	Square Yard	\$51.00	\$16,848.38	\$62,339.00	
25	Planter Median Removal	163	Square Yard	\$76.00	\$3,357.24	\$12,421.78	
26	Curb and Gutter Removal	8,221	Feet	\$11.00	\$24,440.81	\$90,431.00	
27	Sidewalk Removal	872	Square Feet	\$3.00	\$707.03	\$2,616.00	
28	6" Sub base (Median)	2,069	Square Yard	\$14.00	\$7,830.33	\$28,972.22	
29	10" PCC (Median)	2,069	Square Yard	\$113.00	\$63,201.95	\$233,847.22	
30	HMA (Median)	2,025	Tons	\$226.00	\$123,717.82	\$457,755.94	
31	Concrete Curb and Gutter Installation	8,221	Feet	\$16.00	\$35,550.27	\$131,536.00	
32	PCC Sidewalk	872	Square Feet	\$6.00	\$1,414.05	\$5,232.00	
33	Bus Pads (local stops)	880	Square Yard	\$128.00	\$30,443.24	\$112,640.00	11 local stops 80 sq. yd/bus pad
34	PCC Sidewalk (8")	2,529	Square Feet	\$8.00	\$5,467.12	\$20,228.34	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
35	Catch Basin Removal	36	Each	\$451.00	\$4,388.11	\$16,236.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
36	Storm Sewer Removal	1,440	Feet	\$28.00	\$10,897.30	\$40,320.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
37	Catch Basin	36	Each	\$4,948.00	\$48,142.70	\$178,128.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
38	Storm Sewer	1,440	Feet	\$156.00	\$60,713.51	\$224,640.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
39	Trench & Backfill (drainage)	72	Cubic Yard	\$116.00	\$2,257.30	\$8,352.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
40	Pavement Marking	48,840	Linear Foot	\$4.00	\$52,800.00	\$195,360.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
41	Traffic Signal Improvement	11	Intersection	\$33,845.00	\$100,620.27	\$372,295.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
42	Pole Relocation	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 poles/approach being widened
43	Foundations	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 foundations/approach being widened
44	Remove Existing Pole & Foundation	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 poles+foundations/approach being widened
45	Cable	4,000	Linear Foot	\$7.00	\$7,567.57	\$28,000.00	500'/approach being widened, assume NO. 14 3C
46	Conduit	4,000	Linear Foot	\$13.00	\$14,054.05	\$52,000.00	500'/approach being widened, assume 2' conduit
47	Trench & Backfill (lighting)	4,000	Foot	\$19.00	\$20,540.54	\$76,000.00	500'/approach being widened
48	Miscellaneous	8	Each	\$5,000.00	\$10,810.81	\$40,000.00	\$5000/approach being widened. Benches, trash receptacles, other ancillary roadway features to be relocated
49	Structures to be Adjusted	4	Each	\$1,100.00	\$1,189.19	\$4,400.00	One per mile
50	Section 4: 129th - 154th Street	3.46	miles		\$113,909.54	\$394,127.01	
51	Pavement Marking	45,672	Linear Foot	\$4.00	\$52,800.00	\$182,688.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
52	PCC Sidewalk (8")	2,365	Square Feet	\$8.00	\$5,467.12	\$18,916.23	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
53	Detectable Tile	985	Square Feet	\$58.00	\$16,515.25	\$57,142.78	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 80 sqft/station
54	Traffic Signal Improvement	4	Intersection	\$33,845.00	\$39,127.17	\$135,380.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
55	Section 5: 79th - 154th Street	9.81	miles		\$1,796,794.50	\$17,626,554.00	
56	Pace Pulse Station	28	Each	\$437,066.00	\$1,247,487.05	\$12,237,848.00	
57	CTA Station	8	Each	\$125,071.00	\$101,994.70	\$1,000,568.00	
58	CTA/PACE Terminal Station	3	Each	\$62,872.00	\$19,226.91	\$188,616.00	

59	Upgrades to CTA 79th Bus Turnaround	1	Lsum	\$3,861,072.00	\$393,585.32	\$3,861,072.00	
60	Traffic Signal Improvement	10	Each	\$33,845.00	\$34,500.51	\$338,450.00	10 locations to be determined
61	Section 6: 79th Street	1.0	miles		\$432,940.70	\$242,128.25	
62	Overhead Signs	6	Each	\$6,940.00	\$219,157.89	\$41,640.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles) overhead structure for the three intersections not signalized
63	Pavement Marking	1,980	Linear Foot	\$4.00	\$41,684.21	\$7,920.00	Assume a double yellow line along section containing bus lane
64	Bus Pads	160	Square Yard	\$128.00	\$10.34	\$20,480.00	2 stations on 79th. 1 bus pad/station. 80 sq. yd/bus pad
65	Bus Pads (local stops)	880	Square Yard	\$128.00	\$112,640.00	\$112,640.00	11 local stations, 80 sq. yd/bus pad
66	PCC Sidewalk (8")	1,136	Square Feet	\$8.00	\$9,088.00	\$9,088.00	3 stopping on 79th St. Assume 192 sqft/station plus 560 SF for Bus stopping at 79th and Perry before turnaround
67	Detectable Tile	285	Square Feet	\$58.00	\$16,515.25	\$16,515.25	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 80 sqft/station
68	Traffic Signal Improvement	1	Intersection	\$33,845.00	\$33,845.00	\$33,845.00	Vincennes Ave
69	Section 7: 95th Street	1.0	miles		\$233,032.37	\$233,032.37	
70	Bus Pads (local stops)	1,120	Square Yard	\$128.00	\$143,360.00	\$143,360.00	14 local stations, 80 sq. yd/bus pad
71	PCC Sidewalk (8")	683	Square Feet	\$8.00	\$5,467.12	\$5,467.12	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
72	Detectable Tile	285	Square Feet	\$58.00	\$16,515.25	\$16,515.25	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 80 sqft/station
73	Traffic Signal Improvement	2	Intersection	\$33,845.00	\$67,690.00	\$67,690.00	Parnell Ave and Wentworth Ave
<b>SUBTOTAL</b>					\$1,903,378	\$22,478,900	
PRELIMINARY ENGINEERING 7% OF SUBTOTAL					\$133,236	\$1,573,523	
FINAL DESIGN 6% OF SUBTOTAL					\$114,203	\$1,348,734	
PROJECT MANAGEMENT 10% OF SUBTOTAL					\$190,338	\$2,247,890	
CONSTRUCTION MANAGEMENT 9% OF SUBTOTAL					\$171,304	\$2,023,101	
INSURANCE AND PERMIT COSTS 2% OF SUBTOTAL					\$38,068	\$449,578	
SURVEY COSTS 3% OF SUBTOTAL					\$57,101	\$674,367	
AGENCY STAFF 5% OF SUBTOTAL					\$95,169	\$1,123,945	
CONTINGENCY 35% OF SUBTOTAL					\$666,182	\$7,867,615	
<b>TOTAL</b>					<b>\$3,368,980</b>	<b>\$39,787,652</b>	<b>\$3,368,980</b>

**NOTES AND ASSUMPTIONS**

Limit of construction is assumed to span approximately 10 miles from the center of 79th Street to the Center of 154th Street.  
The unit price for items in Line Nos. 2-5, 9, 12-14, 18, 20, 23-26, 30, and 40 are based on IDOT bid prices (2015)  
The unit price for items in Line Nos. 6-7, 15-16, 27-28 are based on Belmont Ave. NTP - Reference Division 90% Cost Estimate (proj. 3112)  
The unit prices for items in Line Nos. 8, 17, 29, 31, 33-36, 48-49 are based on the JBFRT Summary of Quantities (proj. 3106)  
The unit prices for items in Line Nos. 37 & 51 are based on TCRP Report 118.

South Halsted Bus Corridor Enhancement Project - Alternative 2							
Line No.	Cost Category	Quantity	Units	Unit Cost	Cost/mile	Total Cost	Remarks
1	Section 1: 79th - 98th Street	2.40	miles		\$546,774.59	\$1,312,259.02	
2	Signs	852	Each	\$515.00	\$182,825.00	\$438,780.00	
3	Median Removal	217	Square Yard	\$51.00	\$4,604.17	\$11,050.00	
4	Curb and Gutter Removal	1,236	Feet	\$11.00	\$5,665.00	\$13,596.00	
5	6" Sub base (Median)	217	Square Yard	\$14.00	\$1,263.89	\$3,033.33	
6	10" PCC (Median)	217	Square Yard	\$113.00	\$10,201.39	\$24,483.33	
7	HMA (Median)	24	Tons	\$226.00	\$2,285.11	\$5,484.27	
8	Concrete Curb and Gutter Installation	1,236	Feet	\$16.00	\$8,240.00	\$19,776.00	
9	Structures to be Adjusted	3	Each	\$1,100.00	\$1,375.00	\$3,300.00	
10	Bus Pads	640	Square Yard	\$128.00	\$34,133.33	\$81,920.00	8 CTA stations
11	Bus Pads (local stops)	2,320	Square Yard	\$128.00	\$123,733.33	\$296,960.00	29 local stops, bus pad for local stations only. 80 sq. yd/bus pad
12	PCC Sidewalk (8")	1,640	Square Feet	\$8.00	\$5,467.12	\$13,121.08	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
13	Detectable Tile	640	Square Feet	\$58.00	\$15,466.67	\$37,120.00	8. Assume 80 sqft/station
14	Pavement Marking	31,680	Linear Foot	\$4.00	\$52,800.00	\$126,720.00	
15	Traffic Signal Improvement	7	Intersection	\$33,845.00	\$98,714.58	\$236,915.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
16	Section 2: 98th - 100th Street	0.25	miles		\$104,907.12	\$56,946.78	
17	Bus Pads (local stops)	240	Square Yard	\$128.00	\$122,880.00	\$30,720.00	3 local stops, 80 sq. yd/bus pad.
18	PCC Sidewalk (8")	171	Square Feet	\$8.00	\$5,467.12	\$1,366.78	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
19	Pavement Marking	5,940	Linear Foot	\$4.00	\$95,040.00	\$23,760.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
20	Structures to be Adjusted	1	Each	\$1,100.00	\$4,400.00	\$1,100.00	
21	Section 3: 100th - 129th Street	3.70	miles		\$706,446.56	\$2,613,852.28	
22	Signs	228	Each	\$515.00	\$31,735.14	\$117,420.00	
23	Pavement Removal (Median)	969	Square Yard	\$20.00	\$5,237.24	\$19,377.78	
24	Median Removal	1,222	Square Yard	\$51.00	\$16,848.38	\$62,339.00	
25	Planter Median Removal	163	Square Yard	\$76.00	\$3,357.24	\$12,421.78	
26	Curb and Gutter Removal	8,221	Feet	\$11.00	\$24,440.81	\$90,431.00	
27	Sidewalk Removal	872	Square Feet	\$3.00	\$707.03	\$2,616.00	
28	6" Sub base (Median)	2,069	Square Yard	\$14.00	\$7,830.33	\$28,972.22	
29	10" PCC (Median)	2,069	Square Yard	\$113.00	\$63,201.95	\$233,847.22	
30	HMA (Median)	2,025	Tons	\$226.00	\$123,717.82	\$457,755.94	
31	Concrete Curb and Gutter Installation	8,221	Feet	\$16.00	\$35,550.27	\$131,536.00	
32	PCC Sidewalk	872	Square Feet	\$6.00	\$1,414.05	\$5,232.00	
33	Bus Pads (local stops)	880	Square Yard	\$128.00	\$30,443.24	\$112,640.00	11 local stops 80 sq. yd/bus pad
34	PCC Sidewalk (8")	2,529	Square Feet	\$8.00	\$5,467.12	\$20,228.34	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
35	Catch Basin Removal	36	Each	\$451.00	\$4,388.11	\$16,236.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
36	Storm Sewer Removal	1,440	Feet	\$28.00	\$10,897.30	\$40,320.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
37	Catch Basin	36	Each	\$4,948.00	\$48,142.70	\$178,128.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
38	Storm Sewer	1,440	Feet	\$156.00	\$60,713.51	\$224,640.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
39	Trench & Backfill (drainage)	72	Cubic Yard	\$116.00	\$2,257.30	\$8,352.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
40	Pavement Marking	48,840	Linear Foot	\$4.00	\$52,800.00	\$195,360.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
41	Traffic Signal Improvement	11	Intersection	\$33,845.00	\$100,620.27	\$372,295.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
42	Pole Relocation	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 poles/approach being widened
43	Foundations	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 foundations/approach being widened
44	Remove Existing Pole & Foundation	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 poles+foundations/approach being widened
45	Cable	4,000	Linear Foot	\$7.00	\$7,567.57	\$28,000.00	500'/approach being widened, assume NO. 14 3C
46	Conduit	4,000	Linear Foot	\$13.00	\$14,054.05	\$52,000.00	500'/approach being widened, assume 2' conduit
47	Trench & Backfill (lighting)	4,000	Feet	\$19.00	\$20,540.54	\$76,000.00	500'/approach being widened
48	Miscellaneous	8	Each	\$5,000.00	\$10,810.81	\$40,000.00	\$5000/approach being widened
49	Structures to be Adjusted	4	Each	\$1,100.00	\$1,189.19	\$4,400.00	
50	Section 4: 129th - 154th Street	3.46	miles		\$218,588.74	\$756,317.03	
51	Overhead Signs	30.00	Each	\$6,940.00	\$60,173.41	\$208,200.00	
52	Signs	10.00	Each	\$515.00	\$1,488.44	\$5,150.00	
53	Structures to be Adjusted	180	Each	\$1,100.00	\$57,225.43	\$198,000.00	assume 5 per block - 36 blocks
54	Curb and Gutter Removal	1,250	Feet	\$11.00	\$3,973.99	\$13,750.00	assume 50 ft/ block x 36 blocks
55	Concrete Curb and Gutter Installation	1,250	Feet	\$16.00	\$5,780.35	\$20,000.00	
56	Pavement Marking	73,075	Linear Foot	\$4.00	\$84,480.00	\$292,300.80	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
57	PCC Sidewalk (8")	2,365	Square Feet	\$8.00	\$5,467.12	\$18,916.23	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
58	Section 5: 79th - 154th Street	9.81	miles		\$1,796,794.50	\$17,626,554.00	
59	Pace Pulse Station	28	Each	\$437,066.00	\$1,247,487.05	\$12,237,848.00	
60	CTA Station	8	Each	\$125,071.00	\$101,994.70	\$1,000,568.00	
61	CTA/PACE Terminal Station	3	Each	\$62,872.00	\$19,226.91	\$188,616.00	

62	Upgrades to CTA 79th Bus Turnaround	1	Lsum	\$3,861,072.00	\$393,585.32	\$3,861,072.00	
63	Traffic Signal Improvement	10	Each	\$33,845.00	\$34,500.51	\$338,450.00	10 locations to be determined
64	Section 6: 79th Street	1.0	miles		\$418,463.11	\$225,613.00	
65	Overhead Signs	6	Each	\$6,940.00	\$219,157.89	\$41,640.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles)
66	Pavement Marking	1,980	Linear Foot	\$4.00	\$41,684.21	\$7,920.00	Assume a double yellow line along section containing bus lane
67	Bus Pads	160	Square Yard	\$128.00	\$2,048.00	\$20,480.00	2 stations on 79th. 1 bus pad/station. 80 sq. yd/bus pad
68	Bus Pads (local stops)	880	Square Yard	\$128.00	\$112,640.00	\$112,640.00	11 local stops, 80 sq. yd/bus pad
69	PCC Sidewalk (8")	1,136	Square Feet	\$8.00	\$9,088.00	\$9,088.00	3 stations on 79th. Assume 192 sqft/station plus 560 SF of sidewalk for bus stopping at 79th and Perry before entering turnaround
70	Traffic Signal Improvement	1	Intersection	\$33,845.00	\$33,845.00	\$33,845.00	Vincennes Ave
71	Section 7: 95th Street	1.0	miles		\$216,517.12	\$216,517.12	
72	Bus Pads (local stops)	1,120	Square Yard	\$128.00	\$143,360.00	\$143,360.00	14 local stops, 80 sq. yd/bus pad
73	PCC Sidewalk (8")	683	Square Feet	\$8.00	\$5,467.12	\$5,467.12	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
74	Traffic Signal Improvement	2	Intersection	\$33,845.00	\$67,690.00	\$67,690.00	Parnell Ave and Wentworth Ave
<b>SUBTOTAL</b>					\$1,931,250	\$22,808,059	
PRELIMINARY ENGINEERING 7% OF SUBTOTAL					\$135,187	\$1,596,564	
FINAL DESIGN 6% OF SUBTOTAL					\$115,875	\$1,368,484	
PROJECT MANAGEMENT 10% OF SUBTOTAL					\$193,125	\$2,280,806	
CONSTRUCTION MANAGEMENT 9% OF SUBTOTAL					\$173,812	\$2,052,725	
INSURANCE AND PERMIT COSTS 2% OF SUBTOTAL					\$38,625	\$456,161	
SURVEY COSTS 3% OF SUBTOTAL					\$57,937	\$684,242	
AGENCY STAFF 5% OF SUBTOTAL					\$96,562	\$1,140,403	
CONTINGENCY 35% OF SUBTOTAL					\$675,937	\$7,982,821	
<b>TOTAL</b>					<b>\$3,418,312</b>	<b>\$40,370,265</b>	<b>\$3,418,312</b>

**NOTES AND ASSUMPTIONS**

Limit of construction is assumed to span approximately 10 miles from the center of 79th Street to the Center of 154th Street.

The unit price for items in Line Nos. 2-5, 9, 12-14, 18, 20, 23-26, 30, and 40 are based on IDOT bid prices (2015)

The unit price for items in Line Nos. 6-7, 15-16, 27-28 are based on Belmont Ave. NTP - Reference Division 90% Cost Estimate (proj. 3112)

The unit prices for items in Line Nos. 8, 17, 29, 31, 33-36, 48-49 are based on the JBFRT Summary of Quantities (proj. 3106)

The unit prices for items in Line Nos. 37 & 52 are based on TCRP Report 118.

South Halsted Bus Corridor Enhancement Project - Alternative 3							
Line No.	Cost Category	Quantity	Units	Unit Cost	Cost/mile	Total Cost	Remarks
1	Section 1: 79th - 98th Street	2.40	miles		\$549,088.72	\$1,317,812.92	
2	Signs	852	Each	\$515.00	\$182,825.00	\$438,780.00	
3	Median Removal	217	Square Yard	\$51.00	\$4,604.17	\$11,050.00	
4	Curb and Gutter Removal	1,236	Feet	\$11.00	\$5,665.00	\$13,596.00	
5	6" Sub base (Median)	217	Square Yard	\$14.00	\$1,263.89	\$3,033.33	
6	10" PCC (Median)	217	Square Yard	\$113.00	\$10,201.39	\$24,483.33	
7	HMA (Median)	24	Tons	\$226.00	\$2,285.11	\$5,484.27	
8	Concrete Curb and Gutter Installation	1,236	Feet	\$16.00	\$8,240.00	\$19,776.00	
9	Structures to be Adjusted	3	Each	\$1,100.00	\$1,375.00	\$3,300.00	
10	Bus Pads	683	Square Yard	\$128.00	\$36,447.46	\$87,473.90	42 stations/11.8 miles of project corridor = 3.56 stations/mile. 1 bus pad/station. 80 sq. yd/bus pad
11	Bus Pads (local stops)	2,320	Square Yard	\$128.00	\$123,733.33	\$296,960.00	29 local stops, 80 sq. yd/bus pad
12	PCC Sidewalk (8")	1,640	Square Feet	\$8.00	\$5,467.12	\$13,121.08	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
13	Detectable Tile	640	Square Feet	\$58.00	\$15,466.67	\$37,120.00	8. Assume 80 sqft/station
14	Pavement Marking	31,680	Linear Foot	\$4.00	\$52,800.00	\$126,720.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
15	Traffic Signal Improvement	7	Intersection	\$33,845.00	\$98,714.58	\$236,915.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
16	Section 2: 98th - 100th Street	0.25	miles		\$104,907.12	\$56,946.78	
17	Bus Pads (local stops)	240	Square Yard	\$128.00	\$122,880.00	\$30,720.00	3 local stops, 80 sq. yd/bus pads
18	PCC Sidewalk (8")	171	Square Feet	\$8.00	\$5,467.12	\$1,366.78	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
19	Pavement Marking	5,940	Linear Foot	\$4.00	\$95,040.00	\$23,760.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor and 2 solid white lines
20	Structures to be Adjusted	1	Each	\$1,100.00	\$4,400.00	\$1,100.00	
21	Section 3: 100th - 129th Street	3.70	miles		\$2,745,602.85	\$10,271,370.56	
22	Bus Pads (local stops)	880	Square Yard	\$128.00	\$30,443.24	\$112,640.00	11 local stops 80 sq. yd/bus pad
23	Overhead Signs	44	Each	\$6,940.00	\$82,529.73	\$305,360.00	
24	Signs	22	Each	\$515.00	\$3,062.16	\$11,330.00	
25	Pavement Removal (Median)	10,938	Square Yard	\$20.00	\$59,123.12	\$218,755.56	
26	Median Removal	6,578	Square Yard	\$51.00	\$90,674.32	\$335,495.00	\$2,776,046.10
27	Curb and Gutter Removal	63,930	Feet	\$11.00	\$190,062.16	\$703,230.00	
28	Sidewalk Removal	30,925	Square Feet	\$3.00	\$25,074.32	\$92,775.00	
29	6" Sub base (Median)	19,783	Square Yard	\$14.00	\$74,855.86	\$276,966.67	
30	10" PCC (Median)	19,783	Square Yard	\$113.00	\$604,193.69	\$2,235,516.67	
31	HMA (Median)	5,539	Tons	\$226.00	\$338,348.47	\$1,251,889.33	
32	Concrete Curb and Gutter Installation	63,930	Feet	\$16.00	\$276,454.05	\$1,022,880.00	
33	PCC Sidewalk	30,925	Square Feet	\$6.00	\$50,148.65	\$185,550.00	
34	PCC Sidewalk (8")	2,529	Square Feet	\$8.00	\$5,467.12	\$20,228.34	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
35	Catch Basin Removal	162	Each	\$451.00	\$19,746.49	\$73,062.00	Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
36	Storm Sewer Removal	6,480	Feet	\$28.00	\$49,037.84	\$181,440.00	Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
37	Catch Basin	162	Each	\$4,948.00	\$216,642.16	\$801,576.00	Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
38	Storm Sewer	6,480	Feet	\$156.00	\$273,210.81	\$1,010,880.00	Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
39	Trench & Backfill (drainage)	324	Cubic Yard	\$116.00	\$10,157.84	\$37,584.00	Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
40	Pavement Marking	87,912	Linear Foot	\$4.00	\$95,040.00	\$351,648.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor and 2 solid white lines
41	Pole Relocation	84	Each	\$1,157.00	\$26,267.03	\$97,188.00	3 poles/approach being widened
42	Foundations	84	Each	\$1,157.00	\$26,267.03	\$97,188.00	3 foundations/approach being widened
43	Remove Existing Pole & Foundation	84	Each	\$1,157.00	\$26,267.03	\$97,188.00	3 poles+foundations/approach being widened
44	Cable	14,000	Linear Foot	\$7.00	\$26,486.49	\$98,000.00	500'/approach being widened, assume NO. 14 3C
45	Conduit	14,000	Linear Foot	\$13.00	\$49,189.19	\$182,000.00	500'/approach being widened, assume 2" conduit
46	Trench & Backfill (lighting)	14,000	Feet	\$19.00	\$71,891.89	\$266,000.00	500'/approach being widened
47	Miscellaneous	8	Each	\$5,000.00	\$10,810.81	\$40,000.00	\$5000/approach being widened
48	Structures to be Adjusted	150	Each	\$1,100.00	\$44,594.59	\$165,000.00	5 per block for 30 blocks
49	Section 4: 129th - 154th Street	3.46	miles		\$218,588.74	\$756,317.03	
50	Overhead Signs	30	Each	\$6,940.00	\$60,173.41	\$208,200.00	
51	Signs	10	Each	\$515.00	\$1,488.44	\$5,150.00	
52	Structures to be Adjusted	180	Each	\$1,100.00	\$57,225.43	\$198,000.00	assume 5 per block - 36 blocks
53	Curb and Gutter Removal	1,250	Feet	\$11.00	\$3,973.99	\$13,750.00	assume 50 ft/ block x 36 blocks
54	Concrete Curb and Gutter Installation	1,250	Feet	\$16.00	\$5,780.35	\$20,000.00	
55	Pavement Marking	73,075	Linear Foot	\$4.00	\$84,480.00	\$292,300.80	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
56	PCC Sidewalk (8")	2,365	Square Feet	\$8.00	\$5,467.12	\$18,916.23	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
57	Section 5: 79th - 154th Street	9.81	miles		\$1,796,794.50	\$17,626,554.00	
58	Pace Pulse Station	28	Each	\$437,066.00	\$1,247,487.05	\$12,237,848.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles)
59	CTA Station	8	Each	\$125,071.00	\$101,994.70	\$1,000,568.00	Assume a double yellow line along section containing bus lane
60	CTA/PACE Terminal Station	3	Each	\$62,872.00	\$19,226.91	\$188,616.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles)

61	Upgrades to CTA 79th Bus Turnaround	1	Lsum	\$3,861,072.00	\$393,585.32	\$3,861,072.00	
62	Traffic Signal Improvement	10	Each	\$33,845.00	\$34,500.51	\$338,450.00	10 locations to be determined
63	Section 6: 79th Street	1.0	miles			\$225,613.00	
64	Overhead Signs	6	Each	\$6,940.00	\$219,157.89	\$41,640.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles)
65	Pavement Marking	1,980	Linear Foot	\$4.00	\$41,684.21	\$7,920.00	Assume a double yellow line along section containing bus lane
66	Bus Pads (local stops)	880	Square Yard	\$128.00	\$112,640.00	\$112,640.00	11 local stops 80 sq. yd/bus pad
67	Bus Pads	160	Square Yard	\$128.00	\$20,480.00	\$20,480.00	2 stations on 79th. 1 bus pad/station. 80 sq. yd/bus pad
68	PCC Sidewalk (8")	1,136	Square Feet	\$8.00	\$9,088.00	\$9,088.00	3 stations on 79th Assume 192 sqft/station plus 560 SF of sidewalk added at 79th and Perry for bus stopping before entering turnaround
69	Traffic Signal Improvement	1	Intersection	\$33,845.00	\$33,845.00	\$33,845.00	Vincennes Ave
70	Section 7: 95th Street	1.0	miles			\$109,604.58	
71	Bus Pads	285	Square Yard	\$128.00	\$36,447.46	\$36,447.46	42 stations/11.8 miles of project corridor = 3.56 stations/mile. 1 bus pad/station. 80 sq. yd/bus pad
72	PCC Sidewalk (8")	683	Square Feet	\$8.00	\$5,467.12	\$5,467.12	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
73	Traffic Signal Improvement	2	Intersection	\$33,845.00	\$67,690.00	\$67,690.00	Parnell Ave and Wentworth Ave
<b>SUBTOTAL</b>					\$2,571,060	\$30,364,219	
PRELIMINARY ENGINEERING 7% OF SUBTOTAL					\$179,974	\$2,125,495	
FINAL DESIGN 6% OF SUBTOTAL					\$154,264	\$1,821,853	
PROJECT MANAGEMENT 10% OF SUBTOTAL					\$257,106	\$3,036,422	
CONSTRUCTION MANAGEMENT 9% OF SUBTOTAL					\$231,395	\$2,732,780	
INSURANCE AND PERMIT COSTS 2% OF SUBTOTAL					\$51,421	\$607,284	
SURVEY COSTS 3% OF SUBTOTAL					\$77,132	\$910,927	
AGENCY STAFF 5% OF SUBTOTAL					\$128,553	\$1,518,211	
CONTINGENCY 35% OF SUBTOTAL					\$899,871	\$10,627,477	
<b>TOTAL</b>					<b>\$4,550,776</b>	<b>\$53,744,667</b>	<b>\$4,550,776</b>

**NOTES AND ASSUMPTIONS**

Limit of construction is assumed to span approximately 10 miles from the center of 79th Street to the Center of 154th Street.

The unit price for items in Line Nos. 2-5, 9, 12-14, 18, 20, 23-26, 30, and 40 are based on IDOT bid prices (2015)

The unit price for items in Line Nos. 6-7, 15-16, 27-28 are based on Belmont Ave. NTP - Reference Division 90% Cost Estimate (proj. 3112)

The unit prices for items in Line Nos. 8, 17, 29, 31, 33-36, 48-49 are based on the JBFRT Summary of Quantities (proj. 3106)

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
Bus Lane - Parking Lane Reduced (79th St)	Overhead Signs	EACH	\$ 6,940.00	6	\$ 41,640.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles) overhead structure for the three intersections not signalized Assume a double yellow line along section containing bus lane
	Pavement Marking	LNFT	\$ 4.00	1,980	\$ 7,920.00	
					<b>\$ 49,560.00</b>	<b>TOTAL COST OF SECTION</b>
						<b>0.19 MILES IN SECTION</b>
					<b>\$ 260,842.11</b>	<b>COST OF SECTION PER MILE</b>

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
Bus Lane - Travel Lanes Reduced (98th to 100th)	PCC Sidewalk (8")	SQFT	\$ 8.00	171	\$ 1,366.78	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor One per mile
	Pavement Marking	LNFT	\$ 4.00	5940	\$ 23,760.00	
	Structures to be Adjusted	EACH	\$ 1,100.00	1	\$ 1,100.00	
					<b>\$ 26,226.78</b>	<b>TOTAL COST OF SECTION</b>
						<b>0.25 MILES IN SECTION</b>
					<b>\$ 104,907.12</b>	<b>COST OF SECTION PER MILE</b>

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
Bus Lane - Parking Lanes Reduced (100th to 129th)	Overhead Signs	EACH	\$ 6,940.00	44	\$ 305,360.00	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station Assume 6 catch basin relocations per intersection widening. 27 intersections widened. Assume 6 catch basin relocations per intersection widening. 27 intersections widened. Assume 6 catch basin relocations per intersection widening. 27 intersections widened. Assume 6 catch basin relocations per intersection widening. 27 intersections widened. Assume 6 catch basin relocations per intersection widening. 27 intersections widened. Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor and 2 solid white lines 3 poles/approach being widened 3 foundations/approach being widened 3 poles+foundations/approach being widened 500'/approach being widened, assume NO. 14 3C 500'/approach being widened, assume 2' conduit 500'/approach being widened \$5000/approach being widened 5 per block for 30 blocks
	Signs	EACH	\$ 515.00	22	\$ 11,330.00	
	Pavement Removal (Median)	SQYD	\$ 20.00	10938	\$ 218,755.56	
	Median Removal	SQYD	\$ 51.00	6578	\$ 335,495.00	
	Curb and Gutter Removal	FT	\$ 11.00	63930	\$ 703,230.00	
	Sidewalk Removal	SQFT	\$ 3.00	30925	\$ 92,775.00	
	6" Sub base (Median)	SQYD	\$ 14.00	19783	\$ 276,966.67	
	10" PCC (Median)	SQYD	\$ 113.00	19783	\$ 2,235,516.67	
	HMA (Median)	TON	\$ 226.00	5539	\$ 1,251,889.33	
	Concrete Curb and Gutter Installation	FT	\$ 16.00	63930	\$ 1,022,880.00	
	PCC Sidewalk	SQFT	\$ 6.00	30925	\$ 185,550.00	
	PCC Sidewalk (8")	SQFT	\$ 8.00	2529	\$ 20,228.34	
	Catch Basin Removal	EACH	\$ 451.00	162	\$ 73,062.00	
	Storm Sewer Removal	FT	\$ 28.00	6480	\$ 181,440.00	
	Catch Basin	EACH	\$ 4,948.00	162	\$ 801,576.00	
	Storm Sewer	FT	\$ 156.00	6480	\$ 1,010,880.00	
	Trench & Backfill (drainage)	CUYD	\$ 116.00	324	\$ 37,584.00	
	Pavement Marking	LNFT	\$ 4.00	87912	\$ 351,648.00	
	Pole Relocation	EACH	\$ 1,157.00	84	\$ 97,188.00	
	Foundations	EACH	\$ 1,157.00	84	\$ 97,188.00	
	Remove Existing Pole & Foundation	EACH	\$ 1,157.00	84	\$ 97,188.00	
	Cable	LNFT	\$ 7.00	14000	\$ 98,000.00	
	Conduit	LNFT	\$ 13.00	14000	\$ 182,000.00	
	Trench & Backfill (lighting)	FT	\$ 19.00	14000	\$ 266,000.00	
	Miscellaneous	EACH	\$ 5,000.00	8	\$ 40,000.00	
	Structures to be Adjusted	EACH	\$ 1,100.00	150	\$ 165,000.00	
						<b>3.7 MILES IN SECTION</b>
					<b>\$ 2,745,602.85</b>	<b>COST OF SECTION PER MILE</b>

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
Bus Lane - Travel Lanes Reduced (129th to 154th)	Overhead Signs	EACH	\$ 6,940.00	30	\$ 208,200.00	Assume 5/block - 36 blocks Assume 50 ft/block x 36 blocks Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
	Signs	EACH	\$ 515.00	10	\$ 5,150.00	
	Structures to be Adjusted	EACH	\$ 1,100.00	180	\$ 198,000.00	
	Curb and Gutter Removal	FT	\$ 11.00	1250	\$ 13,750.00	
	Concrete Curb and Gutter Installation	FT	\$ 16.00	1250	\$ 20,000.00	
Pavement Marking	LNFT	\$ 4.00	73075	\$ 292,300.80		



PCC Sidewalk (8")	SQFT	\$ 8.00	2365	\$ 18,916.23	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
				<b>\$ 756,317.03</b>	<b>TOTAL COST OF SECTION</b>
					<b>3.46 MILES IN SECTION</b>
				<b>\$ 218,588.74</b>	<b>COST OF SECTION PER MILE</b>

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
Colorized Pavement Installation	Colorized Pavement Marking	SQ FT	\$ 7.00	10560	\$ 73,920.00	5280 ft/mile. 2 feet wide
	Colorized HMA Pavement Installation	TON	\$ 173.00	1971	\$ 341,017.60	5280 ft/mile. 2.5" depth, 12 foot travel lane
				<b>\$ 414,937.60</b>	<b>PER MILE</b>	

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
HMA Pavement Installation	Colorized Pavement Marking	SQ FT	\$ 7.00	10560	\$ 73,920.00	5280 ft/mile. 2 feet wide
	HMA Pavement Installation	TON	\$ 116.00	1971	\$ 228,659.20	5280 ft/mile. 2.5" depth, 12 foot travel lane
				<b>\$ 302,579.20</b>	<b>PER MILE</b>	

ITEM	COST	YEAR	ESCALATION YEAR	YEARLY ESCALATION	ESCALATION YEAR COST	SOURCE	REMARK
Signs	\$ 445.00	2016	2023	2.10%	\$ 515.00	2016 Grand Ave Project	
Pavement Removal (Median)	\$ 18.00	2017	2023	2.03%	\$ 20.00	60X95	
Median Removal	\$ 45.00	2017	2023	2.03%	\$ 51.00	61E14	
Planter Median Removal	\$ 67.00	2017	2023	2.03%	\$ 76.00	\$45+\$22 (1/3)earth excavation (\$67/ cy 60X95)	
Curb and Gutter Removal	\$ 10.00	2017	2023	2.03%	\$ 11.00	60X95	
Sidewalk Removal	\$ 2.25	2017	2023	2.03%	\$ 3.00	60X95	
6" Sub base (Median)	\$ 12.00	2017	2023	2.03%	\$ 14.00	74664	
10" PCC (Median)	\$ 100.00	2017	2023	2.03%	\$ 113.00	78392	
HMA (Median)	\$ 200.55	2017	2023	2.03%	\$ 226.00	74664 SC/ 61e14	Levelling binder 2.5" surface 2.5" + 5% prime coat
Concrete Curb and Gutter Installation	\$ 14.00	2017	2023	2.03%	\$ 16.00	61D16	
PCC Sidewalk	\$ 5.50	2017	2023	2.03%	\$ 6.00	60V57	
Bus Pads (local stops)	\$ 110.40	2016	2023	2.10%	\$ 128.00	2016 Grand Ave Project (80 HECC)+12 subbase +20% for dowel bars	
PCC Sidewalk (8")	\$ 7.00	2016	2023	2.10%	\$ 8.00	61E07	
Catch Basin Removal	\$ 400.00	2017	2023	2.03%	\$ 451.00	60V57	
Storm Sewer Removal	\$ 25.24	2017	2023	2.03%	\$ 28.00	68084	
Catch Basin	\$ 4,278.00	2016	2023	2.10%	\$ 4,948.00	2016 Grand Ave Project	
Storm Sewer	\$ 135.00	2016	2023	2.10%	\$ 156.00	2017 Grand Ave Project	
Trench & Backfill (drainage)	\$ 100.00	2016	2023	2.10%	\$ 116.00	87680	
Pavement Marking	\$ 3.50	2017	2023	2.03%	\$ 4.00	46471	
Traffic Signal Improvement	\$ 30,000.00	2017	2023	2.03%	\$ 33,845.00	Past DEO projects	
Pole Relocation	\$ 1,000.00	2016	2023	2.10%	\$ 1,157.00	DEO	
Foundations	\$ 1,000.00	2016	2023	2.10%	\$ 1,157.00	DEO	
Remove Existing Pole & Foundation	\$ 1,000.00	2016	2023	2.10%	\$ 1,157.00	DEO	
Cable	\$ 6.21	2016	2023	2.10%	\$ 7.00	DEO	
Conduit	\$ 11.38	2016	2023	2.10%	\$ 13.00	DEO	
Trench & Backfill (lighting)	\$ 16.38	2016	2023	2.10%	\$ 19.00	DEO	
Miscellaneous	\$ 5,000.00			0.00%	\$ 5,000.00		
Structures to be Adjusted	\$ 975.00	2017	2023	2.03%	\$ 1,100.00	60X95	
Pace Pulse Station	\$ 393,929.00	2018	2023	2.10%	\$ 437,066.00		
CTA Station	\$ 112,727.00	2018	2023	2.10%	\$ 125,071.00		
CTA/PACE Terminal Station	\$ 56,667.00	2018	2023	2.10%	\$ 62,872.00		
Upgrades to CTA 79th Bus Turnaround	\$ 3,480,000.00	2018	2023	2.10%	\$ 3,861,072.00		
Bus Pads	\$ 110.40	2016	2023	2.10%	\$ 128.00		
Detectable Tile	\$ 50.00	2016	2023	2.10%	\$ 58.00		
Overhead Signs	\$ 6,000.00	2016	2023	2.10%	\$ 6,940.00		
Colorized Pavement Marking	\$ 6.00	2016	2023	2.10%	\$ 7.00		
Colorized HMA Pavement Installation	\$ 150.00	2016	2023	2.10%	\$ 173.00		
HMA Pavement Installation	\$ 100.00	2016	2023	2.10%	\$ 116.00		

Pavement Resurfacing

Category	South Halsted Bus Corridor Enhancement Project													Source
	Line No.	Cost Category	Street	From	To	Width of Roadway(ft)	Length(ft)	Quan.	Units	Unit Cost	Cost/mile	Total Cost	Remarks	
		HMA Surface Removal (2.25")	Halsted Street	79th	83rd	49	2260	12304	Square Yard	\$ 2.50		\$ 30,761.11		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	83rd	98th	56	10000	62222	Square Yard	\$ 2.50		\$ 155,555.56		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	98th	100th	77	1305	11165	Square Yard	\$ 2.50		\$ 27,912.50		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	100th	129th PL	54	19655	117930	Square Yard	\$ 2.50		\$ 294,825.00		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	129th Pl	145th	48	9800	52267	Square Yard	\$ 2.50		\$ 130,666.67		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	145th	147th	56	3300	20533	Square Yard	\$ 2.50		\$ 51,333.33		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	147th	149th	61	1330	9014	Square Yard	\$ 2.50		\$ 22,536.11		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	Halsted Street	149th	154th	48	3850	20533	Square Yard	\$ 2.50		\$ 51,333.33		APIR09222017 IDot bid tab
		Leveling Binder (0.75")	Halsted Street	79th	154th			12851	Ton	\$ 100.00		\$ 1,285,071.67		APIR09222017 IDot bid tab
		HMA Surface (1.5")	Halsted Street	79th	154th			25701	Ton	\$ 125.00		\$ 3,212,679.17		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	79th Street	Halsted Street	Wabash Avenue			30358	Square Yard	\$ 2.50		\$ 75,895.83		APIR09222017 IDot bid tab
		HMA Surface Removal (2.25")	95th Street	Halsted Street	State Street			39368	Square Yard	\$ 2.50		\$ 98,420.28		APIR09222017 IDot bid tab
		Leveling Binder (0.75")	79th Street	Halsted Street	Wabash Avenue			1275	Ton	\$ 100.00		\$ 127,505.00		APIR09222017 IDot bid tab
		HMA Surface (1.5")	95th Street	Halsted Street	State Street			3307	Ton	\$ 125.00		\$ 413,365.17		APIR09222017 IDot bid tab
											total	\$5,977,860.72		

Halsted				
Start	End	Block	Block Length (ft)	Median Length (ft)
79	80	79th to 80th	665	0
80	81	80th to 81st	665	0
81	82	81st to 82nd	665	0
82	83	82nd to 83rd	665	0
83	84	83rd to 84th	665	0
84	85	84th to 85th	665	0
85	Vincennes	85th to Vincennes	875	0
Vincennes	87	Vincennes to 87th	450	285
87	88	87th to 88th	640	365
88	89	88th to 89th	640	420
89	90	89th to 90th	640	490
90	91	90th to 91st	740	320
91	92	91st to 92nd	680	420
92	93	92nd to 93rd	680	490
93	94	93rd to 94th	680	390
94	95	94th to 95th	625	325
95	96	95th to 96th	715	485
96	97	96th to 97th	655	685
97	98 St	97th to 98th St	650	330
98 St	98 Pl	98th St to 98th Pl	310	145
98 Pl	99	98th Pl to 99th	330	0
99	100	99th to 100th	665	585
100	101	100th to 101st	665	580
101	102	101st to 102nd	665	585
102	103	102nd to 103rd	665	590
103	104	103rd to 104th	665	525
104	105	104th to 105th	660	455
105	106	105th to 106th	665	455
106	107	106th to 107th	665	515
107	108	107th to 108th	665	595
108	109	108th to 109th	665	400
109	110	109th to 110th	665	595
110	111	110th to 111th	660	505
111	112	111th to 112th	665	525
112	113	112th to 113th	665	410
113	114	113th to 114th	665	480
114	115	114th to 115th	660	600
115	116	115th to 116th	540	325
116	117	116th to 117th	645	560
117	118	117th to 118th	800	540
118	119	118th to 119th	665	515
119	120	119th to 120th	665	595
120	RR Tracks	120th to RR Tracks	670	610
RR Tracks	122	RR Tracks to 122nd	660	600
122	123	122nd to 123rd	665	580
123	124	123rd to 124th	665	585
124	125	124th to 125th	670	520
125	126	125th to 126th	665	385
126	127	126th to 127th	665	575
127	Vermont	127th to Vermont	440	305
Vermont	128	Vermont to 128th	570	410
128	129	128th to 129th	710	440
129	130	129th to 130th	↓	↓
130	131	130th to 131st	↓	↓
131	132	131st to 132nd	↓	↓
132	133	132nd to 133th	↓	↓
133	134	133th to 134th	2440	595
134	135	134th to 135th	↓	↓
135	136	135th to 136th	↓	↓
136	137	136th to 137th	↓	↓
137	138	137th to 138th	2670	2560
138	139	138th to 139th	↓	↓
139	140	139th to 140th	↓	↓

79th				
Start	End	Block	Block Length (ft)	Median Length (ft)
Halsted	Emerald	Halsted to Emerald	330	0
Emerald	Union	Emerald to Union	330	0
Union	Lowe	Union to Lowe	330	0
Lowe	Wallace	Lowe to Wallace	170	0
Wallace	Fielding	Wallace to Fielding	280	0
Fielding	Parnell	Fielding to Parnell	215	0
Parnell	Normal	Parnell to Normal	330	0
Normal	Eggleston	Normal to Eggleston	330	0
Eggleston	Vincennes	Eggleston to Vincennes	350	0
Vincennes	Harvard	Vincennes to Harvard	310	0
Harvard	Princeton	Harvard to Princeton	330	0
Princeton	Driveway	Princeton to CTA Driveway	215	0
CTA Driveway	Yale	CTA Driveway to Yale	115	0
Yale	Wentworth	Yale to Wentworth	330	0
Wentworth	Lasalle	Wentworth to Lasalle	325	0
Lasalle	Perry	Lasalle to Perry	330	0
Perry	Lafayette	Perry to Lafayette	330	0
Lafayette	State	Lafayette to State	330	0
TOTAL (feet)			5280	0
TOTAL (miles)			1.00	0.00

95th				
Start	End	Block	Block Length (ft)	Median Length (ft)
Halsted	Emerald	Halsted to Emerald	330	0
Emerald	Union	Emerald to Union	330	265
Union	Lowe	Union to Lowe	330	265
Lowe	Wallace	Lowe to Wallace	330	210
Wallace	Parnell	Wallace to Parnell	330	265
Parnell	Normal	Parnell to Normal	330	265
Normal	Eggleston	Normal to Eggleston	330	265
Eggleston	Harvard	Eggleston to Harvard	645	490
Harvard	Princeton	Harvard to Princeton	330	220
Princeton	Yale	Princeton to Yale	330	265
Yale	Wentworth	Yale to Wentworth	330	210
Wentworth	Lasalle	Wentworth to Lasalle	330	210
Lasalle	Perry	Lasalle to Perry	330	265
Perry	Lafayette	Perry to Lafayette	330	0
Lafayette	State	Lafayette to State	330	255
TOTAL (feet)			5265	3450
TOTAL (miles)			1.00	0.65
TOTAL PROJECT LENGTH (feet)				62445
TOTAL PROJECT LENGTH (miles)				11.83

medians (feet) 32880  
medians (miles) 6.23

140	141	140th to 141st	↓	↓
141	142	141st to 142nd	2710	2590
142	143	142nd to 143th	660	575
143	144	143th to 144th	660	580
144	145	144th to 145th	660	380
145	146	145th to 146th	2640	0
146	147	146th to 147th	660	480
147	148	147th to 148th	660	575
148	149	148th to 149th	670	0
149	150	149th to 150th	760	0
150	151	150th to 151st	800	0
151	152	151st to 152nd	980	0
152	153	152nd to 153th	980	0
153	154	153th to 154th	330	0
<b>TOTAL (feet)</b>			51900	29430
<b>TOTAL (miles)</b>			9.83	5.57

Halsted					ALTERNATIVE 1																
Start	End	Block	Block Length (ft)	Median Length (ft)	WIDENING	Planter Median Length (ft)	Concrete Median Length (ft)	Description	Width of median removed (ft)	Area of planter median removed	Area of median removed	Widening	Area being widened	Area of sub base installed	Area of pavement removed	Length of curb and gutter removed	Area of sidewalk removed	Description	Width of median removed (ft)	Area of planter median removed	
Segment 1	79	80	79th to 80th	665	0						0		0								
	80	81	80th to 81st	665	0						0		0								
	81	82	81st to 82nd	665	0						0		0								
	82	83	82nd to 83rd	665	0						0		0								
	83	84	83rd to 84th	665	0						0		0								
	84	85	84th to 85th	665	0						0		0								
	85	Vincennes	85th to Vincennes	875	0						0		0								
	Vincennes	87	Vincennes to 87th	450	285				Narrow Med. 4'	4	1140			0	1140		570		Narrow Med. 2'	4	
	87	88	87th to 88th	640	365			189	Narrow Med. 2'	2	378			0	378		378		Narrow Med. 2'	2	
	88	89	88th to 89th	640	420						0		0								
	89	90	89th to 90th	640	490						0		0								
	90	91	90th to 91st	740	320						0		0								
	91	92	91st to 92nd	680	420						0		0								
	92	93	92nd to 93rd	680	490						0		0								
	93	94	93rd to 94th	680	390						0		0								
	94	95	94th to 95th	625	325						0		0								
	95	96	95th to 96th	715	144			144	Narrow Med. 3'	3	432			0	432		288		Narrow Med. 3'	3	
96	97	96th to 97th	655	685						0		0									
97	98 St	97th to 98th St	650	330						0		0									
TOTAL (feet)			12660	4664				SQFT		0	1950		0	1950	0	1236	0	SQFT		0	
TOTAL (miles)			2.40	0.88				SQYD		0	217		0	217	0	137	0	SQYD		0	
Segment 2	98 St	98 Pl	98th St to 98th Pl	310	145					0	0		0							0	
	98 Pl	99	98th Pl to 99th	330	0					0	0		0							0	
	99	100	99th to 100th	665	585					0	0		0	0						0	
	TOTAL (feet)			1305	730				SQFT		0	0		0	0	0	0		SQFT		0
TOTAL (miles)			0.25	0.14				SQYD		0	0		0	0	0	0		SQYD		0	
Segment 3	100	101	100th to 101st	660	580		230	Narrow Med. *	3	0	690		0	690	460	460		Narrow Med. *	3	0	
	101	102	101st to 102nd	660	585					0	0		0	0	0	0				0	
	102	103	102nd to 103rd	660	590		200	Narrow Med. *	3	0	600		0	600	400	400		Narrow Med. *	3	0	
	103	104	103rd to 104th	660	525	149		Widen 2'		0	0	2	298	596	298	149	298		Widen 2'		0
	104	105	104th to 105th	660	455					0	0		0		0					0	
	105	106	105th to 106th	660	455					0	0		0		0					0	
	106	107	106th to 107th	660	515			100	Narrow Med. 4'	4	200	744		0	744	572	372		Narrow Med. 4'	4	200
	107	108	107th to 108th	660	595			75	Narrow Med. 4'	4	150	892		0	892	596	446		Narrow Med. 4'	4	150
	108	109	108th to 109th	660	400						0	0		0		0				0	
	109	110	109th to 110th	660	595						0	0		0		0				0	
	110	111	110th to 111th	660	505			30	Narrow Med. 4'	4	120	400		0	920	460	460		Narrow Med. 4'	4	120
	111	112	111th to 112th	660	525	130		38	Narrow Med. 4', widen 1'	4	152	824	1	660	1702	748	748	130	Narrow Med. 4', widen 1'	4	152
	112	113	112th to 113th	660	410						0	0		0	0	0	0			0	
	113	114	113th to 114th	660	480						0	0		0	0	0	0			0	
	114	115	114th to 115th	660	600	148			widen 3', narrow sidewalk 3'	3	0	0	3	1980	740	296	296	444	Narrow Med. 3'	3	0
	115	116	115th to 116th	540	325			131	Narrow Med. 3'	3	0	393		0	655	262	262	0	Narrow Med. 3'	3	0
	116	117	116th to 117th	645	560						0	0		0	0	0	0			0	
117	118	117th to 118th	800	540						0	0		0	0	0	0			0		
118	119	118th to 119th	665	515			66		3	99	600		0	1132	532	532	0			99	
119	120	119th to 120th	660	595				Narrow Med. 3'	4	0	1464		0	2196	732	732	0	Narrow Med. 3'	3	0	
120	RR Tracks	120th to RR Tracks	660	610			312	Narrow Med. 4'	4	0	1248		0	1872	624	624	0	Narrow Med. 4'	4	0	

Halsted					ALTERNATIVE 1																
Start	End	Block	Block Length (ft)	Median Length (ft)	WIDENING	Planter Median Length (ft)	Concrete Median Length (ft)	Description	Width of median removed (ft)	Area of planter median removed	Area of median removed	Widening	Area being widened	Area of sub base installed	Area of pavement removed	Length of curb and gutter removed	Area of sidewalk removed	Description	Width of median removed (ft)	Area of planter median removed	
Segment 1	79	80	79th to 80th	665	0						0		0								
	80	81	80th to 81st	665	0						0		0								
	81	82	81st to 82nd	665	0						0		0								
	82	83	82nd to 83rd	665	0						0		0								
	83	84	83rd to 84th	665	0						0		0								
	84	85	84th to 85th	665	0						0		0								
	85	Vincennes	85th to Vincennes	875	0						0		0								
	Vincennes	87	Vincennes to 87th	450	285				Narrow Med. 4'	4	1140			0	1140		570		Narrow Med. 2'	4	
	87	88	87th to 88th	640	365			189	Narrow Med. 2'	2	378			0	378		378		Narrow Med. 2'	2	
	88	89	88th to 89th	640	420						0		0								
	89	90	89th to 90th	640	490						0		0								
	90	91	90th to 91st	740	320						0		0								
	91	92	91st to 92nd	680	420						0		0								
	92	93	92nd to 93rd	680	490						0		0								
	93	94	93rd to 94th	680	390						0		0								
	94	95	94th to 95th	625	325						0		0								
	95	96	95th to 96th	715	144			144	Narrow Med. 3'	3	432			0	432		288		Narrow Med. 3'	3	
96	97	96th to 97th	655	685						0		0									
97	98 St	97th to 98th St	650	330						0		0									
TOTAL (feet)			12660	4664				SQFT		0	1950		0	1950	0	1236	0	SQFT		0	
TOTAL (miles)			2.40	0.88				SQYD		0	217		0	217	0	137	0	SQYD		0	
Segment 2	98 St	98 Pl	98th St to 98th Pl	310	145					0	0		0							0	
	98 Pl	99	98th Pl to 99th	330	0					0	0		0							0	
	99	100	99th to 100th	665	585					0	0		0	0						0	
	TOTAL (feet)			1305	730				SQFT		0	0		0	0	0	0	0	SQFT		0
TOTAL (miles)			0.25	0.14				SQYD		0	0		0	0	0	0	0	SQYD		0	
Segment 3	100	101	100th to 101st	660	580		230	Narrow Med. *	3	0	690		0	690	460	460		Narrow Med. *	3	0	
	101	102	101st to 102nd	660	585					0	0		0	0	0	0				0	
	102	103	102nd to 103rd	660	590		200	Narrow Med. *	3	0	600		0	600	400	400		Narrow Med. *	3	0	
	103	104	103rd to 104th	660	525	149		Widen 2'		0	0	2	298	596	298	149	298		Widen 2'		0
	104	105	104th to 105th	660	455					0	0		0		0					0	
	105	106	105th to 106th	660	455					0	0		0		0					0	
	106	107	106th to 107th	660	515			100	Narrow Med. 4'	4	200	744		0	744	572	372		Narrow Med. 4'	4	200
	107	108	107th to 108th	660	595			75	Narrow Med. 4'	4	150	892		0	892	596	446		Narrow Med. 4'	4	150
	108	109	108th to 109th	660	400						0	0		0		0				0	
	109	110	109th to 110th	660	595						0	0		0		0				0	
	110	111	110th to 111th	660	505			30	Narrow Med. 4'	4	120	400		0	920	460	460		Narrow Med. 4'	4	120
	111	112	111th to 112th	660	525	130		38	Narrow Med. 4', widen 1'	4	152	824	1	660	1702	748	748	130	Narrow Med. 4', widen 1'	4	152
	112	113	112th to 113th	660	410						0	0		0	0	0	0			0	
	113	114	113th to 114th	660	480						0	0		0	0	0	0			0	
	114	115	114th to 115th	660	600	148			widen 3', narrow sidewalk 3'	3	0	0	3	1980	740	296	296	444	Narrow Med. 3'	3	0
	115	116	115th to 116th	540	325			131	Narrow Med. 3'	3	0	393		0	655	262	262	0	Narrow Med. 3'	3	0
	116	117	116th to 117th	645	560						0	0		0	0	0	0			0	
117	118	117th to 118th	800	540						0	0		0	0	0	0			0		
118	119	118th to 119th	665	515			66		3	99	600		0	1132	532	532	0			99	
119	120	119th to 120th	660	595				Narrow Med. 3'	4	0	1464		0	2196	732	732	0	Narrow Med. 3'	3	0	
120	RR Tracks	120th to RR Tracks	660	610			312	Narrow Med. 4'	4	0	1248		0	1872	624	624	0	Narrow Med. 4'	4	0	





ALTERNATIVE 2						
Area of median removed	Widening	Area being widened	Area of sub base installed	Area of pavement removed	Length of curb and gutter removed	Area of sidewalk removed
0		0				
0		0				
0		0				
0		0				
0		0				
0		0				
0		0				
1140		0	1140		570	
378		0	378		378	
0		0				
0		0				
0		0				
0		0				
432		0	432		288	
0		0				
0		0				
1950		0	1950	0	1236	0
217		0	217	0	137	0
0		0				
0		0				
0		0	0			
0		0	0	0	0	0
0		0	0	0	0	0
690	0	0	690	460	460	0
0	0	0	0	0	0	0
600	0	0	600	400	400	0
0	2	298	596	298	149	298
0	0	0	0	0	0	0
0	0	0	0	0	0	0
744	0	0	744	572	372	0
892	0	0	892	596	446	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
400	0	0	920	460	460	0
824	1	660	1702	748	748	130
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	3	1980	740	296	296	444
393	0	0	655	262	262	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
600	0	0	1132	532	532	0
1464	0	0	2196	732	732	0
1248	0	0	1872	624	624	0

ALTERNATIVE 3								
Description	Width of median removed (ft)	Area of median removed	Widening	Area being widened	Area of sub base installed	Area of pavement removed	Length of curb and gutter removed	Area of sidewalk removed
		0		0				
		0		0				
		0		0				
		0		0				
		0		0				
		0		0				
		0		0				
Narrow Med. 2'	4	1140		0	1140		570	
Narrow Med. 2'	2	378		0	378		378	
		0		0				
		0		0				
		0		0				
		0		0				
Narrow Med. 3'	3	432		0	432		288	
		0		0				
		0		0				
SQFT		1950		0	1950	0	1236	0
SQYD		217		0	217	0	137	0
		0		0				
		0		0				
		0		0	0	0	0	0
		0		0	0	0	0	0
Narrow med. *, widen 2'	3	1740	2	1320	6700	3640	2480	1320
Narrow med. *, widen 1'		0	1	660	4320	3660	2490	660
Narrow med. *, widen 1'	3	1770	1	660	6110	3680	2500	660
						1320		
Narrow med. *, widen intersection 1'	3	1365	1	660	5165	3140	2230	660
Narrow med. 2', widen intersection 2'	2	910	2	1320	5370	3140	2230	1320
Narrow med. *, widen 2'/3.5'	3	1545	2	1320	6245	3380	2350	1320
Narrow med. *	3	1785			1785	3700	1190	
Narrow med. *, widen 2'	3	1200	2	1320	5440	2920	2120	1320
Narrow med. *, widen 2'	3	1785	2	1320	6805	3700	2510	1320
Narrow med. *, widen 2'/3'	3	1515	2	1320	6175	3340	2330	1320
Narrow med. *, widen 2.5'	3	1575	2	1320	6315	3420	2370	1320
Narrow med. *, widen 2'/2.5'	3	1230	2	1320	5510	2960	2140	1320
Narrow med. *, widen 2'/1'	3	1440	2	1320	6000	3240	2280	1320
Narrow med. *, widen intersection 1.5'	3	1800	2	1320	6840	3720	2520	1320
Remove med., widen intersection 2'	5	1625	2	1080	5085	2380	1730	1080
Narrow med. 5', widen intersection 1'	5	2800	1	645	6975	3530	2410	645
Narrow med. *, widen intersection 1.5/3	3	1620	2	1600	6980	3760	2680	1600
Narrow med. *, widen intersection 1.5/2	3	1545	2	1330	6265	3390	2360	1330
Narrow med. 8', widen intersection 2.5'	8	4760	3	1980	10440	3700	2510	1980
Narrow med. 4.5', widen intersection 1'/1.5'	5	3050	1	660	7470	3760	2540	660

1160

0	0	0	0	0	0	0	Narrow med. 6', widen intersection 2'	6	3600	2	1320	8640	3720	2520	1320
600	0	0	1300	700	700	0	Narrow med. 6', widen intersection 2'/2.5'	6	3480	2	1320	8440	3640	2480	1320
603	0	0	1005	402	402	0	Narrow med. 6', widen intersection 1 1/2'	6	3510	1	660	7830	3660	2490	660
0	0	0	0	0	0	0	Narrow med. 6'	6	3120		0	3120	3400	1040	
0	3	1980	0	0	0	0	Narrow med. 5', widen 3'	5	1925	3	1980	6765	2860	2090	1980
428	0	0	856	428	428	0	Narrow med. 7', widen intersection 2'	7	4025	2	1320	8965	3620	2470	1320
915	3	1320	1525	610	610	0	Remove med.	5	1525		0	1525	2100	610	
600	0	0	1200	600	600	0	Narrow med. 4', widen 1.5'	4	1640	2	1140	5560	2780	1960	1140
0	0	0	0	0	0	0	Narrow med. 3', widen intersection 1'	3	1320	1	710	5210	3180	2300	710
11001		6238	18625	8720	8221	872	SQFT		59205		30925	178050	98440	63930	30925
1222			2069	969	913	97	SQYD		6578			19783	10938	7103	3436
0		0	0	0	0	0	SQFT		0		0	0	0	0	0
0		0	0	0	0	0	SQYD		0		0	0	0	0	0