									Alt 1		Alt 2		Alt 3
Item	Description	Unit	Alt 1	Alt 2	Alt 3		Unit Price	Tot	al (FY 2023)	То	otal (FY 2023)	Tot	tal (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
	CTA 79th Bus Turnaround	Station	1	1	1	\$	3,861,072	\$	3,861,072	\$	3,861,072	\$	3,861,072
	Bus Lane - Parking Lane Reduced (79th St)	Miles	0.19	0.19	0.19	\$	/ -	\$	49,560.00	\$	49,560	\$	49,560
	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
						S	SUBTOTAL	\$	22,382,775	\$	22,727,314	\$	30,325,769
	PRELIMINARY ENGINEERING 7% OF SUBTOT	AL					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 SUBTOTA						10%	\$	2,238,277	\$	2,272,731	\$	3,032,577
CC	ONSTRUCTION MANAGEMENT 9% OF SUBTO	DTAL					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
	Total (without Pavement Resurf	acing & Colo	rization)				TOTAL	\$	39,617,511	\$	40,227,346	\$	53,676,611
11	Pavement Resurfacing - Subtotal	Unit	5,977,861	5,977,861	5,977,861	\$	1	\$	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
	Total (with Pavement F	Resurfacing)					TOTAL	\$	50,198,325	\$	50,808,160	\$	64,257,424
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
	Total (with Pavement Resurface	cing & Colori	zation)				TOTAL	\$	51,546,180	\$	54,990,032	\$	71,237,313

				Soi	th Halsted Bus Corrid	or Enhancement Proje	ct - 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
	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. Cost breakdown as follows: 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	\$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	A40	\$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	04.00	\$113,909.54	\$394,127.01	Assume O able deals (O Of Leagh) and O called college lines along a fine of the college of the c
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	A 107 000 0	\$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	

						1	
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
	SUBTO	DTAL			\$1,903,378	\$22,478,900	
	PRELIMINARY ENGINEER	NG 7% OF S	UBTOTAL		\$133,236	\$1,573,523	
	FINAL DESIGN 6	% OF SUBTOTA	AL		\$114,203	\$1,348,734	
	PROJECT MANAGEMEN	Γ 10% OF SU	IBTOTAL		\$190,338	\$2,247,890	
	CONSTRUCTION MANAGEM	IENT 9% OF	SUBTOTAL		\$171,304	\$2,023,101	
	INSURANCE AND PERMIT CO	OSTS 2% OF	SUBTOTAL		\$38,068	\$449,578	İ
	SURVEY COSTS	3% OF SUBTO	TAL		\$57,101	\$674,367	
	AGENCY STAFF	5% OF SUBTOT	TAL		\$95,169	\$1,123,945	
		35% OF SUBTO			\$666,182	\$7,867,615	
	TOT				\$3,368,980	\$39,787,652	\$3,368,980
	101	AL			φ3,300,980	ψ39,161,032	٥٥٠,٥٥٥

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 E	nhancement 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 11	Bus Pads	640 2,320	Square Yard	\$128.00 \$128.00	\$34,133.33	\$81,920.00 \$296,960.00	8 CTA stations
11	Bus Pads (local stops) PCC Sidewalk (8")	1,640	Square Yard Square Feet	\$8.00	\$123,733.33 \$5,467.12	\$13,121.08	29 local stops, bus pad for local stations only. 80 sq. yd/bus pad 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	o. Assume ou squistation
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	ψου,υ-υ.υυ	\$104,907.12	\$56,946.78	rypical signal addition and willing from various 15w, assume controller and cabinet replacement is not needed
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	, (* * * * y) * * * * * * * * * * * * * * * * * *
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 40	Trench & Backfill (drainage) Pavement Marking	72 48,840	Cubic Yard Linear Foot	\$116.00 \$4.00	\$2,257.30 \$52,800.00	\$8,352.00 \$195,360.00	Assume 6 catch basin relocations per intersection widening. 6 intersections widened.
41	Traffic Signal Improvement	11	Intersection	\$33,845.00	\$100,620.27	\$372,295.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
42	Pole Relocation	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
43	Foundations	24	Each	\$1,157.00	\$7,504.86	\$27,768.00	3 poles/approach being widened 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	ψ1,130.00	\$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	\$5,940.00	\$1,488.44	\$5,150.00	
53	-	180	Each	\$1,100.00	\$1,466.44	\$198,000.00	assume 5 per block - 36 blocks
53	Structures to be Adjusted	1,250		\$1,100.00	\$3,973.99		
	Curb and Gutter Removal		Feet			\$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	
	CTA Station	8	Each	\$125,071.00	\$101,994.70	\$1,000,568.00	
60 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
	SUBT	OTAL			\$1,931,250	\$22,808,059	
	PRELIMINARY ENGINEERI	ING 7% OF S	UBTOTAL		\$135,187	\$1,596,564	
	FINAL DESIGN 6	6% OF SUBTOT	AL		\$115,875	\$1,368,484	
	PROJECT MANAGEMENT	T 10% OF SU	IBTOTAL		\$193,125	\$2,280,806	
	CONSTRUCTION MANAGEM	IENT 9% OF	SUBTOTAL		\$173,812	\$2,052,725	
	INSURANCE AND PERMIT CO	OSTS 2% OF	SUBTOTAL		\$38,625	\$456,161	
	SURVEY COSTS	3% OF SUBTO	TAL		\$57,937	\$684,242	
	AGENCY STAFF	5% OF SUBTO	TAL		\$96,562	\$1,140,403	
	CONTINGENCY	35% OF SUBTO	TAL		\$675,937	\$7,982,821	
	ТОТ	AL			\$3,418,312	\$40,370,265	\$3,418,312

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 I	lalsted Bus Corridor E	nhancement 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 - 11 - 14 - 15 - 15 - 15 - 15 - 15 - 15
10	Bus Pads	683 2,320	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)		Square Yard	\$128.00	\$123,733.33	\$296,960.00	29 local stops, 80 sq. yd/bus pad
12	PCC Sidewalk (8") Detectable Tile	1,640 640	Square Feet Square Feet	\$8.00 \$58.00	\$5,467.12 \$15,466.67	\$13,121.08 \$37,120.00	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station 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	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
16	Section 2: 98th - 100th Street	0.25	miles	ψ00,040.00	\$104,907.12	\$56,946.78	Typical signal addition and wiring from various TSM, assume controller and cabinet replacement is not needed
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	Produito 2 stup dash (0.20 iongin) and 2 solid yellow lines along entire contact and 2 solid write lines
21	Section 3: 100th - 129th Street	3.70	miles	ψ.,.σσ.σσ	\$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	11 local stops to sq. yarbas pad
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	Φ2,710,040.10
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				ψυ.υυ			72 Stationer File Initios of project confluor = 5.50 stationer films. Assume 192 squistation
	Section 5: 79th - 154th Street	9.81	miles	£427.000.00	\$1,796,794.50	\$17,626,554.00	Due long from Helated Ct. Laws Ave /2 blocks), approximately 40001 / 40 miles)
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	\$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
	SUBTO	OTAL			\$2,571,060	\$30,364,219	
	PRELIMINARY ENGINEERII	NG 7% OF S	UBTOTAL		\$179,974	\$2,125,495	
	FINAL DESIGN 6	% OF SUBTOTA	AL .		\$154,264	\$1,821,853	
	PROJECT MANAGEMENT	10% OF SU	BTOTAL		\$257,106	\$3,036,422	
	CONSTRUCTION MANAGEM	ENT 9% OF	SUBTOTAL		\$231,395	\$2,732,780	
	INSURANCE AND PERMIT CO	OSTS 2% OF	SUBTOTAL		\$51,421	\$607,284	
	SURVEY COSTS	3% OF SUBTO	ΓAL		\$77,132	\$910,927	
	AGENCY STAFF	5% OF SUBTO	TAL		\$128,553	\$1,518,211	
	CONTINGENCY 3	35% OF SUBTO	ΓAL		\$899,871	\$10,627,477	
	тот	AL			\$4,550,776	\$53,744,667	\$4,550,776

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 Reduc	end Overhead Signs	EVCH	\$6,940.00	6	Ф	41,640.00	Bus lane from Halsted St - Lowe Ave (3 blocks), approximately 1000' (.19 miles) overhead structure for the
(79th St)	ded Overnead Signs	LACIT	φ 0,940.00	U	Ψ	41,040.00	three intersections not signalized
(791131)	Pavement Marking	LNFT	\$ 4.00	1,980	\$	7,920.00	Assume a double yellow line along section containing bus lane
					\$	49,560.00	TOTAL COST OF SECTION
						0.19	MILES IN SECTION
					\$	260,842.11	COST OF SECTION PER MILE

Section	Description	Unit	Unit Price	Quantity	Cost	Assumptions
Bus Lane - Travel Lanes Reduced	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
(98th to100th)	Pavement Marking	LNFT	\$ 4.00	5940 \$	23,760.00	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor
(98111010011)	Structures to be Adjusted	EACH	\$1,100.00	1 \$	1,100.00	One per mile
				\$	26,226.78	TOTAL COST OF SECTION
					0.2	5 MILES IN SECTION
				\$	104,907.12	COST OF SECTION PER MILE

Section	Description	Unit	Unit Price	Quantity		Cost	Assumptions
	Overhead Signs	EACH	\$6,940.00	44	\$	305,360.00	
	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			1,251,889.33	
	Concrete Curb and Gutter Installation	FT	\$ 16.00			1,022,880.00	
	PCC Sidewalk	-	\$ 6.00	30925		185,550.00	
	PCC Sidewalk (8")	SQFT	\$ 8.00	2529		·	42 stations/11.8 miles of project corridor = 3.56 stations/mile. Assume 192 sqft/station
Bus Lane - Parking Lanes	Catch Basin Removal	EACH	\$ 451.00	162	\$		Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
Reduced (100th to 129th)	Storm Sewer Removal	FT	\$ 28.00	6480			Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
	Catch Basin	EACH	\$4,948.00	162			Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
	Storm Sewer	FT	\$ 156.00	6480			Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
	Trench & Backfill (drainage)		\$ 116.00	324	•		Assume 6 catch basin relocations per intersection widening. 27 intersections widened.
	Pavement Marking	LNFT	\$ 4.00	87912		·	Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor and 2 solid white lines
	Pole Relocation		\$ 1,157.00	84			3 poles/approach being widened
	Foundations		\$ 1,157.00	84			3 foundations/approach being widened
	Remove Existing Pole & Foundation		\$ 1,157.00	84			3 poles+foundations/approach being widened
	Cable	LNFT	\$ 7.00	14000			500'/approach being widened, assume NO. 14 3C
	Conduit	LNFT	\$ 13.00	14000			500'/approach being widened, assume 2' conduit
	Trench & Backfill (lighting)	FT	\$ 19.00	14000			500'/approach being widened
	Miscellaneous	EACH	\$5,000.00	8	\$	40,000.00	\$5000/approach being widened
	Structures to be Adjusted	EACH	\$1,100.00	150	\$	165,000.00	5 per block for 30 blocks
_		_			\$ 1	0,158,730.56	TOTAL COST OF SECTION
							MILES IN SECTION
					\$	2,745,602.85	COST OF SECTION PER MILE

Description Section Unit Unit Price Quantity Cost Assumptions Overhead Signs 208,200.00 EACH \$6,940.00 30 \$ Signs 5,150.00 EACH \$ 515.00 10 \$ Bus Lane - Travel Lanes Reduced

(120th to 154th)

Structures to be Adjusted
Curb and Gutter Removal EACH \$1,100.00 180 \$ 198,000.00 Assume 5/block - 36 blocks FT \$ 11.00 1250 \$ 13,750.00 Assume 50 ft/block x 36 blocks (129th to 154th) Concrete Curb and Gutter Installation FT \$ 16.00 1250 \$ 20,000.00 Pavement Marking LNFT \$ 4.00 73075 \$ 292,300.80 Assume 2 skip dash (0.25 length) and 2 solid yellow lines along entire corridor

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
			\$	756,317.03 TOTAL COST OF SECTION
				3.46 MILES IN SECTION
			\$	218,588.74 COST OF SECTION PER MILE

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	
Colonzed Pavement Installation	Colorized HMA Pavement Installation	TON	\$ 173.00	1971 \$	341,017.60	5280 ft/mile. 2.5" depth, 12 foot travel lane	
				\$	414,937.60	PER MILE	
				Ψ	111,001100		
				*	111,001100		
Section	Description	Unit	Unit Price	Quantity	Cost		Assumptions
	Description Colorized Pavement Marking	Unit SQ FT			Cost	5280 ft/mile. 2 feet wide	Assumptions
Section HMA Pavement Installation	•				Cost 73,920.00		Assumptions

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%		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%		61D16	
PCC Sidewalk	\$ 5.50	2017	2023	2.03%	<u> </u>	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%		61E07	
Catch Basin Removal	\$ 400.00	2017	2023	2.03%	\$ 451.00		
Storm Sewer Removal	\$ 25.24	2017	2023		·	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		•	87680	
Pavement Marking	\$ 3.50	2017	2023	2.03%		46471	
Traffic Signal Improvement	\$ 30,000.00	2017	2023	2.03%		Past DEO projects	
Pole Relocation	\$ 1,000.00	2016	2023	2.10%		DEO	
Foundations	\$ 1,000.00	2016	2023	2.10%	\$ 1,157.00		
Remove Existing Pole & Foundation	\$ 1,000.00	2016	2023			DEO	
Cable	\$ 6.21	2016	2023			DEO	
Conduit	\$ 11.38	2016	2023	2.10%		DEO	
Trench & Backfill (lighting)	\$ 16.38	2016	2023	2.10%	\$ 19.00	DEO	
Miscellaneous	\$ 5,000.00				\$ 5,000.00		
Structures to be Adjusted	\$ 975.00	2017	2023	2.03%	• •	60X95	
Pace Pulse Station	\$ 393,929.00	2018	2023	2.10%	\$ 437,066.00		
CTA Station	\$ 112,727.00	2018	2023		\$ 125,071.00		
CTA/PACE Terminal Station	\$ 56,667.00	2018	2023		\$ 62,872.00		
Upgrades to CTA 79th Bus Turnaround	\$ 3,480,000.00	2018	2023		\$ 3,861,072.00		
Bus Pads	\$ 110.40	2016	2023		\$ 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

					South Halste	d Bus Corridor Enhancen	nent Project							
Category	Line No.	Cost Category	Street	From	То	Width of Roadway(ft)	Length(ft)	Quan.	Units	Unit Cost	Cost/ mile	Total Cost	Remarks	Source
		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 PI	145th	48	9800	52267	Square Yard	\$ 2.50		\$ 130,666.67		APIR09222017 IDOt bid tab
			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

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		139			
	139	140			

		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	Princton to CTA Driveway	215	0
CTA Driveway	Yale	CTA Driveway to Yale	115	0
Yale	Wentworth	Yale to Wentworth	330	0
Wenworth	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 Modian Longth														
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

10000

140	141	140th to 141st	4	V
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
		TOTAL (feet)	51900	29430
		TOTAL (miles)	9.83	5.57

			Halsted									ALTE	RNATIVE 1	<u> </u>							
	Start	End	Block	Block Length (ft)	Median Length (ft)	WIDENING		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
	79		79th to 80th	665	0							0		0							
	80		80th to 81st	665	0							0		0							
	81		81st to 82nd	665	0							0		0							
	82		82nd to 83rd	665	0							0		0							
	83		83rd to 84th	665	0	ļ						0		0							
	84		84th to 85th	665	0	ł						0		0							
	85 \ Vincennes		85th to Vincennes Vincennes to 87th	875	285				Name Mad 41	4		0		0	4440		F70		Name v Mad O	4	
	87		87th to 88th	450 640	365	4		189	Narrow Med.4' Narrow Med. 2'	4 2		1140 378		0	1140 378		570 378		Narrow Med. 2' Narrow Med. 2'	4 2	
Σ	88		88th to 89th	640	420			109	Narrow Med. 2	2		0		0	310		3/0		Narrow Med. 2	2	
nent	89		89th to 90th	640	490							0		0							
Segm	90		90th to 91st	740	320							O		O							
ŭ	91		91st to 92nd	680	420																
	92		92nd to 93rd	680	490							0		0							
	93		93rd to 94th	680	390							0		0							
	94		94th to 95th	625	325	4															
	95		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	1						0		0							
	97	98 St	97th to 98th St	650	330	1						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			217	0	137	0	SQYD		0
	98 St	98 PI	98th St to 98th Pl	310	145						0	0		0							0
nt 2	98 PI	99	98th PI to 99th	330	0						0	0		0							0
me	99	100	99th to 100th	665	585						0	0		0	0						0
Segment			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	SQYD		0
	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	1					0	0		0	0	0	0	1			0
	102	103	102nd to 103rd	660	590	1		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		104th to 105th	660	455						0	0		0		0				1	0
	105		105th to 106th	660	455	4					0	0		0		0				·	
	106		106th to 107th	660	515	•	100	186	Narrow Med. 4'	4	200	744		0	744	572	372		Narrow Med. 4'	4	0
	107		107th to 108th			4				4				-						4	200 150
				660	595		75	223	Narrow Med. 4'	4	150	892		0	892	596	446		Narrow Med. 4'	4	150
	108		108th to 109th	660	400	•					0	0		0		0				,	0
	109		109th to 110th	660	595						0	0		0		0					0
	110	111	110th to 111th	660	505]	30	200	Narrow Med. 4'	4	120	400		0	920	460	460		Narrow Med. 4'	4	120
	111	112	111th to 112th	660	525	130	38	206	Narrow Med. 4', widen 1'	4	152	824	1	660	1702	748	748	130	Narrow Med. 4', widen 1'	4	152 0
	112	113	112th to 113th	660	410						0	0		0	0	0	0	0		'	0
	113	114	113th to 114th	660	480						0	0		0	0	0	0	0		1	0
t 3	114		114th to 115th	660	600	4			widen 3', narrow sidewalk 3'	3	0	0	3	1980	740	296	296	444	Narrow Med. 3'	3	0 0 0 0
neu	115		115th to 116th	540	325			131	· ·	3	0	393		0	655	262	262	0	Narrow Med. 3'	3	0
Segm	116		116th to 117th	645	560			131	INGITOW MICU. J	,	0	0		0	000	0	0	0	Nanow Med. 3	,	0
Ŋ						•								_						ļ ,	0
	117		117th to 118th	800	540	1				_	0	0		0	0	0	0	0		ı	0 99 0
	118		118th to 119th	665	515		66	200		3	99	600		0	1132	532	532	0		_ ,	99
	119		119th to 120th	660	595			366		4	0	1464		0	2196	732	732	0	Narrow Med. 3'		
	120 F	RR Tracks	120th to RR Tracks	660	610	j		312	Narrow Med. 4'	4	0	1248		0	1872	624	624	0	Narrow Med. 4'	4	0

			Halsted									ALTE	RNATIVE 1	<u> </u>							
	Start	End	Block	Block Length (ft)	Median Length (ft)	WIDENING		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
	79		79th to 80th	665	0							0		0							
	80		80th to 81st	665	0							0		0							
	81		81st to 82nd	665	0							0		0							
	82		82nd to 83rd	665	0							0		0							
	83		83rd to 84th	665	0	ļ						0		0							
	84		84th to 85th	665	0	ł						0		0							
	85 \ Vincennes		85th to Vincennes Vincennes to 87th	875	285				Name Mad 41	4		0		0	4440		F70		Name v Mad O	4	
	87		87th to 88th	450 640	365	4		189	Narrow Med.4' Narrow Med. 2'	4 2		1140 378		0	1140 378		570 378		Narrow Med. 2' Narrow Med. 2'	4 2	
Σ	88		88th to 89th	640	420			109	Narrow Med. 2	2		0		0	310		3/0		Narrow Med. 2	2	
nent	89		89th to 90th	640	490							0		0							
Segm	90		90th to 91st	740	320							O		O							
ŭ	91		91st to 92nd	680	420																
	92		92nd to 93rd	680	490							0		0							
	93		93rd to 94th	680	390							0		0							
	94		94th to 95th	625	325	4															
	95		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	1						0		0							
	97	98 St	97th to 98th St	650	330	1						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			217	0	137	0	SQYD		0
	98 St	98 PI	98th St to 98th Pl	310	145						0	0		0							0
nt 2	98 PI	99	98th PI to 99th	330	0						0	0		0							0
me	99	100	99th to 100th	665	585						0	0		0	0						0
Segment			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	SQYD		0
	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	1					0	0		0	0	0	0	1			0
	102	103	102nd to 103rd	660	590	1		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		104th to 105th	660	455						0	0		0		0				1	0
	105		105th to 106th	660	455	4					0	0		0		0				·	
	106		106th to 107th	660	515	•	100	186	Narrow Med. 4'	4	200	744		0	744	572	372		Narrow Med. 4'	4	0
	107		107th to 108th			4				4				-						4	200 150
				660	595		75	223	Narrow Med. 4'	4	150	892		0	892	596	446		Narrow Med. 4'	4	150
	108		108th to 109th	660	400	•					0	0		0		0				,	0
	109		109th to 110th	660	595						0	0		0		0					0
	110	111	110th to 111th	660	505]	30	200	Narrow Med. 4'	4	120	400		0	920	460	460		Narrow Med. 4'	4	120
	111	112	111th to 112th	660	525	130	38	206	Narrow Med. 4', widen 1'	4	152	824	1	660	1702	748	748	130	Narrow Med. 4', widen 1'	4	152 0
	112	113	112th to 113th	660	410						0	0		0	0	0	0	0		'	0
	113	114	113th to 114th	660	480						0	0		0	0	0	0	0		1	0
t 3	114		114th to 115th	660	600	4			widen 3', narrow sidewalk 3'	3	0	0	3	1980	740	296	296	444	Narrow Med. 3'	3	0 0 0 0
neu	115		115th to 116th	540	325			131	· ·	3	0	393		0	655	262	262	0	Narrow Med. 3'	3	0
Segm	116		116th to 117th	645	560			131	INGITOW MICU. J	,	0	0		0	000	0	0	0	Nanow Med. 3	,	0
Ŋ						•								_						ļ ,	0
	117		117th to 118th	800	540	1				_	0	0		0	0	0	0	0		ı	0 99 0
	118		118th to 119th	665	515		66	200		3	99	600		0	1132	532	532	0		_ ,	99
	119		119th to 120th	660	595			366		4	0	1464		0	2196	732	732	0	Narrow Med. 3'		
	120 F	RR Tracks	120th to RR Tracks	660	610	j		312	Narrow Med. 4'	4	0	1248		0	1872	624	624	0	Narrow Med. 4'	4	0

	RR Tracks	122 RR Tracks to 122nd	660	600	1			Ì	0	0	1	0	l o	0	0	0			0
	122	123 122nd to 123rd	660	580	150	200	Narrow Med. 3'	3	450	600		0	1300	700	700	0	Narrow Med. 3'	3	450
	123	124 123rd to 124th	660	585	100	201		3	0	603		0	1005	402	402	0	Narrow Med. 3'	3	0
	124	125 124th to 125th	660	520		201	Ivanow wed. 5	3	0	0		0	0	0	0	0	Ivanow Wed. 3	3	0
	125	126 125th to 126th	660	385			Narrow Med. 5', widen 3'	5	0	0	3	1980	0	0	0	0	Narrow Med. 5', widen 3'	5	0
	126	127 126th to 127th	660	575		214	·	2	0	428	Ĭ	0	856	428	428	0	Narrow Med. 2'	2	0
	127	Vermont 127th to Vermont	440	305		305		3	0	915	3	1320	1525	610	610	0	Narrow Med. 3', widen 3'	3	0
		128 Vermont to 128th	570	410	100	200		3	300	600	٦	0		600		0	Narrow Med. 3'	3	300
	Vermont 128	129 128th to 129th	710	440		200	Narrow Med. 5	3		0		-	1200	0	600 0		Narrow Med. 5	3	0
	120						COLL		0			0	0			0	COFT		
		TOTAL (feet) TOTAL (miles)	19550 3.70	15360 2.91			SQFT SQYD		1471 163	11001 1222		6238	18625 2069	8720 969	8221 913	872 97	SQFT SQYD		1471 163
	129	130 129th to 130th	3.70	2.91			3415		103	1222			2009	303	913	31	3010		100
	130	131 130th to 131st	1	<u> </u>															
	131	132 131st to 132nd	1	· ·															
	132	133 132nd to 133th		<u>+</u>															
	133	134 133th to 134th	2440	595															
	134	135 134th to 135th	1	1															
	135	136 135th to 136th	j	Ţ															
	136	137 136th to 137th	<u> </u>	→															
	137	138 137th to 138th	2670	2560															
	138	139 138th to 139th	\downarrow	\downarrow															
	139	140 139th to 140th	\downarrow	\downarrow															
	140	141 140th to 141st	\downarrow	\downarrow															
int 4	141	142 141st to 142nd	2710	2590															
ᇤ	142	143 142nd to 143th	660	575															
Segm	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	660	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									_						
		TOTAL (feet)	18270	8335			SQFT		0	0		0	0	0	0	0	SQFT		0
		TOTAL (miles)	3.46	1.58			SQYD		0	0			0	0	0	0	SQYD		0

^{*} Alternative 1 proposal for segment 4 consists of just pavement markings for the length of the segment
** Alternatives 2 and 3 propose new bus lanes for segment 4 and will require complete roadway reconstruction for the length of the segment.

Marco Modern Mo	ALT	ERNATIVE 2								ALTERNA	ATIVE 3					
Description	median	Widening	_		pavement	curb and gutter	sidewalk	Description	median	median	Widening	_		pavement	curb and gutter	sidewalk
0	0		0							0		0				
Namow Med. 2'												-				
1/20	-		-									-				
Name New	-		•							_		0				
1140	ŭ		•							•		0				
Narrow Med. 2	Ğ		•									0				
Column C	1140		•	1140		570		Narrow Med. 2'	4			0	1140		570	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	378		0	378		378		Narrow Med. 2'	2	378		0	378		378	
Narrow Med. 3' 3 432 0 432 288 Narrow Med. 3' 3 432 0 432 288	0		0							0		0				
A A A A A A A A A A	0		0							0		0				
Ag2	0		0							0		0				
0 0 0 0 1950 0 1236 0 217 0 137 0 217 0 217 0 137 0 217 0 137 0 217 0 217 0 137 0 217 0 217 0 137 0 21	0		0							0		0				
0 0 0 0 1950 0 1236 0 217 0 137 0 217 0 217 0 137 0 217 0 137 0 217 0 217 0 137 0 217 0 217 0 137 0 21	432		0	432		288		Narrow Med. 3'	3	432		0	432		288	
1950 D 1950 D 1238 D 1238 D 217 D 137 D 137 D SQYD D D D D D D D D D			0													
SQYD	0		0							0		0				
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0		0		0					0		0		0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	217			217	0	137	0	SQYD		217			217	0	137	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
SQFT 0													0			
SQYD O O O O O O O O O					0	0	0	SOFT						0	0	0
Narrow med. **, widen 2* 3 1740 2 1320 6700 3640 2480 1320			U	1								U				
Narrow med. \(^1\), widen 1'	690	0	0	690	460				3		2	1320	6700			1320
0 2 298 596 298 149 298 0 <td< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>Narrow med. *, widen 1'</td><td></td><td>0</td><td></td><td>660</td><td>4320</td><td>3660</td><td></td><td>660</td></td<>	0	0	0	0	0		0	Narrow med. *, widen 1'		0		660	4320	3660		660
0 0	600	0	0	600	400	400	0	Narrow med. *, widen 1'	3	1770	1	660	6110	3680	2500	660
0 0 0 0 0 0 0 Narrow med. 2, widen intersection 2' 2 910 2 1320 5370 3140 2230 1320 744 0 0 744 572 372 0 Narrow med. *, widen 2/3.5' 3 1545 2 1320 6245 3380 2350 1320 892 0 20 0 0 0 20 0 0 0 20 0	0	2	298	596	298	149	298							1320		
744 0 0 744 572 372 0 892 0 0 892 596 446 0 0	0	0	0	0	0	0	0	Narrow med. *, widen intersection 1'	3	1365	1	660	5165	3140	2230	660
892 0 0 892 596 446 0 Narrow med. *, widen 2' 3 1785 3700 1190 0 0 0 0 0 0 0 0 0 0 0 0 1785 3700 1190 320 1180 5440 2920 2120 1320 1320 5440 2920 2120 1320 5440 2920 2120 1320 5440 2920 2120 1320 5440 2920 2120 1320 5440 2920 2120 1320 6605 3700 2510 1320 5440 2920 2120 1320 6605 3700 2510 1320 5440 2920 2120 1320 6605 3700 2510 1320 532 31515 2 1320 6615 3615 3420 2370 1320 532 2370 1320 532 3420 2370 1320 532 3420 2570 <t< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>Narrow med. 2', widen intersection 2'</td><td>2</td><td>910</td><td>2</td><td>1320</td><td>5370</td><td>3140</td><td>2230</td><td>1320</td></t<>	0	0	0	0	0	0	0	Narrow med. 2', widen intersection 2'	2	910	2	1320	5370	3140	2230	1320
0 0	744	0	0	744	572	372	0	Narrow med. *, widen 2'/3.5'	3	1545	2	1320	6245	3380	2350	1320
0 0 0 0 0 0 0 Narrow med. *, widen 2' 3 1785 2 1320 6805 3700 2510 1320 400 0 0 920 460 460 0 0 0 0 1515 2 1320 6805 3700 2510 1320 824 1 660 1702 748 748 130 Narrow med. *, widen 2/3' 3 1515 2 1320 6315 3420 2370 1320 0 0 0 0 0 0 0 0 0 0 0 0 2 1320 8315 2 1320 6315 3420 2370 1320 Narrow med. *, widen 2/2.5' 3 1530 2 1320 6315 3420 2370 1320 Narrow med. *, widen 2/2.5' 3 1230 2 1320 600 3240 2280 2140 3220 <tr< td=""><td>892</td><td>0</td><td>0</td><td>892</td><td>596</td><td>446</td><td>0</td><td>Narrow med. *</td><td>3</td><td>1785</td><td></td><td></td><td>1785</td><td>3700</td><td>1190</td><td></td></tr<>	892	0	0	892	596	446	0	Narrow med. *	3	1785			1785	3700	1190	
400 0 920 460 460 0 824 1 660 1702 748 748 130 0	0	0	0	0	0	0	0	Narrow med. *, widen 2'	3	1200	2	1320	5440	2920	2120	1320
400 0 920 460 460 0 824 1 660 1702 748 748 130 0	0	0	0	0	0	0	0	Narrow med. *, widen 2'	3	1785	2	1320	6805	3700	2510	1320
824 1 660 1702 748 748 130 Narrow med. *, widen 2.5' 3 1575 2 1320 6315 3420 2370 1320 0 0 0 0 0 0 0 0 0 0 0 0 1320 5510 2960 2140 1320 0 0 0 0 0 0 0 0 0 0 0 0 0 2 1320 5510 2960 2140 1320 0 3 1980 740 296 296 444 Add 444 1440 2 1320 600 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. *, widen intersection 1.5/3	400	0	0	920	460	460	0	Narrow med. *, widen 2'/3'	3	1515	2	1320	6175	3340	2330	1320
0 0		1	660				130									
0 0 0 0 0 0 0 Narrow med. *, widen 2'/1' 3 1440 2 1320 6000 3240 2280 1320 0 3 1980 740 296 296 444 Narrow med. *, widen intersection 1.5' 3 1800 2 1320 6840 3720 2520 1320 393 0 0 655 262 262 0 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. 5', widen intersection 1.5/3 3 1620 2 1600 6980 3760 2680 1600 Narrow med. 5', widen intersection 1.5/2 3 1545 2 1330 6265 3390 2360 1330 1464 0 0 2196 732 732 0 732 <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1230</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td>		0								1230	2					
0 3 1980 740 296 296 444 Narrow med. *, widen intersection 1.5' 3 1800 2 1320 6840 3720 2520 1320 393 0 0 655 262 262 0 Remove med., widen intersection 2' 5 1625 2 1080 5085 2380 1730 1080 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
393 0 0 655 262 262 0 Remove med., widen intersection 2' 5 1625 2 1080 5085 2380 1730 1080 0																
0 0																
0 0 0 0 0 0 0 0 Narrow med. *, widen intersection 1.5/3 3 1620 2 1600 6980 3760 2680 1600 600 0 0 1132 532 532 0 Narrow med. *, widen intersection 1.5/2 3 1545 2 1330 6265 3390 2360 1330 1464 0 0 2196 732 732 0 Narrow med. 8', widen intersection 2.5' 8 4760 3 1980 10440 3700 2510 1980								· ·								
600 0 0 1132 532 532 0 Narrow med. *, widen intersection 1.5/2 3 1545 2 1330 6265 3390 2360 1330 1464 0 0 2196 732 732 0 Narrow med. 8', widen intersection 2.5' 8 4760 3 1980 10440 3700 2510 1980											2					
1464 0 0 2196 732 732 0 Narrow med. 8', widen intersection 2.5' 8 4760 3 1980 10440 3700 2510 1980																
1240 0 1072 024 024 0 1 wallow liled. 4.3, wideli lilled section 171.5 5 3050 1 000 7470 3700 2340 000	1248	0	0	1872	624	624	0	Narrow med. 4.5', widen intersection 1'/1.5'	5	3050	1	660	7470	3760	2540	660

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'/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	SQYD		0			0	0	0	0