

DOWNTOWN BROOKLYN TRAFFIC CALMING:
Possible Short Term Implementation Measures

Short Term Recommendations for Downtown Brooklyn Traffic Calming. Released NYC DOT July 29, 2003 .

#	Location	From	To	Proposed Short Term Treatments	Estimated Cost per Item*	Total Cost	Notes	Other Recommendations?
1	3rd Avenue	9th Street	Dean Street	Install Class II bike lane	7,500/block	\$120,000	16 block segment/bike map recommended route. 3rd Avenue from Union Ave to 3rd Street is a designated bike route.	Y-neckdowns, gateway treatments also recommended
2	3rd Avenue	9th Street	15th Street	Install LPIs at intersections	N/A		Will require further study by NYC DOT	Y-neckdowns, raised, color-textured intersections also recommended
3	3rd Avenue	Pacific Street	Atlantic Avenue	Install LPIs at intersections	N/A		Will require further study by NYC DOT	Y-Neckdowns, raised, color-textured intersections, also recommended for Pacific Street
4	3rd Avenue	Atlantic Avenue		Increase pedestrian crossing time for Atlantic Avenue	N/A		Will require further study by NYC DOT	
5	4th Avenue	Flatbush Avenue	15th Street	Install LPIs at intersections	N/A		Will require further study by NYC DOT	Y-at specific intersections
6	4th Avenue	Dean Street		Add pedestrian phase	N/A		Will require further study by NYC DOT	Y-Neckdowns
7	4th Avenue	Pacific Street		Add pedestrian phase	N/A		Will require further study by NYC DOT	Y-re-alignment and restriping
8	4th Avenue	Flatbush Avenue		Increase timing for existing pedestrian phase	N/A		Will require further study by NYC DOT	Y-coordinate signal timing with intersections south of Flatbush Avenue, Re-configure e/b approach to two through lanes and an exclusive right turn lane, install medians
9	4th Avenue	Atlantic Avenue		Increase pedestrian crossing time, change current left turn signal for N/B 4th Avenue signal to protected	N/A		Will require further study by NYC DOT	Y-Neckdown, Improve signal coordination along Atlantic Avenue corridor, install medians
10	Atlantic Avenue	Columbia Street		Remove crosswalk on south leg of intersection, Increase pedestrian crossing time	N/A		Will require further study by NYC DOT	
11	Atlantic Avenue	Court Street		Add pedestrian phase, install protected left-turn phase and left turn lane for w/b Atlantic Avenue	N/A		Will require further study by NYC DOT	Y-neckdowns
12	Atlantic Avenue	Henry Street		Increase pedestrian crossing time			Will require further study by NYC DOT	Y-neckdowns, gateway treatment
13	Cadman Plaza West	Montague Street		Explore hi-visibility crosswalk instead of recommended textured crosswalk	1,500/leg	\$1,500		

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14	Cadman Plaza West	Pierrepont Street		Explore hi-visibility crosswalk instead of recommended textured crosswalk	1,500/leg	\$1,500		Y-neckdown
15	Court Street	Joralemon Street	Hamilton Avenue	Explore hi-visibility crosswalk instead of recommended textured crosswalk, LPIs	1,500/leg	\$156,000	104 Legs/Hamilton Avenue at Court Street is being look at as part of the Red Hook Truck Study	Y-bus bulbs and neckdowns
16	Dekalb Avenue	Flatbush Avenue	Vanderbilt Avenue	Install signage to augment reduced 25mph progression that was introduced as pilot and remains in place, install a class II bike lane on the eastern curb for the entire length of roadway	7,500/block	\$97,500	13 block segment (mostly T-intersections)	Y-bus bulbs
17	Fulton Street	South Oxford Street		Explore hi-visibility crosswalk instead of recommended textured crosswalk	1,500/leg	\$1,500	Raised crosswalk installed as pilot measure was removed during road maintenance	
18	Lafayette Street	Ashland Place	Clinton Avenue	Re-time signals to allow for a 25mph progression along entire corridor, install signage to reflect this, explore hi-visibility crosswalk instead of recommended textured crosswalk.	1,500/leg	\$12,000	Signal recommendations will require further study/New yield signage will be installed at Fulton Street/Fort Greene place as a result of an on-site meeting with BBCCO and Boro Engineering	Y-neckdowns
19	Livingston Street	Smith Street		LPI, Explore hi-visibility crosswalk instead of recommended textured crosswalk	1,500/leg	\$1,500	LPI recommendation will require further study	
20	Livingston Street	Elm Place		Signalized mid-block crossing	27,000/midblock crossing	\$27,000	Signal will require study by DOT for warrants	
21	Livingston Street	Hanover Place		Signalized mid-block crossing	27,000/midblock crossing	\$27,000	Signal will require study by DOT for warrants	
22	Montague Street	Court Street/Cadman Plaza West	Promenade	LPIs where signals exist, explore hi-visibility crosswalk instead of recommended textured crosswalk	1,500/leg	\$19,500	4 block segment/13 legs LPI will require further study	Y-neckdowns at Hicks Street, Henry Street, and Clinton Street
23	Myrtle Avenue	Gold Street	Vanderbilt Avenue	Install e/b Class II bike lane	7,500/block	\$75,000	10-block segment. Gold Street to South Cumberland Street recommended bike route in NYC bike map	Y-Neckdowns, mid-block crossing between Ashland Place and Prince Street

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24	3rd Street	Smith Street	3rd Avenue	Install high visibility bike lane, install signage to discourage truck traffic	7,500/block	\$22,500	Recommended route extends to PPW in Plan	Y-mid block neckdowns
25	Ashland Place	Dekalb Avenue	Myrtle Avenue	Install Class II bike lane	7,500/block	\$15,000	As recommended in NYC bike plan	Y-neckdowns
26	Dean Street			Install Bike lane in accordance in NYC Bicycle Master Plan	7,500/block	\$82,500	Approximately 11 blocks in DBTC boundaries. Bike plan recommends e/b lane from Boerum place to Rochester Avenue	Y-neckdowns, raised intersections
27	Bergen Street			Install Bike lane in accordance in NYC Bicycle Master Plan	7,500/block	N/A	Has already been scheduled for installation. Plan recommends w/b lane from Smith Street to Tompkins Avenue	Y-neckdowns, raised intersections
28	Clinton Street	Hamilton Avenue	Tillary Street	Install Class II bike lane on w/s of the street	7,500/block	\$180,000	Approximately 20 blocks/As recommended in bike plan. Hamilton at Clinton is being studied as part of the Red Hook Truck Study	Y-neckdowns and signal timing changes were possible, no specific intersections indicated
29	Henry Street	Old Fulton Street	Clark Street	Explore hi-visibility crosswalk instead of recommended textured crosswalk	1,500/leg	\$18,000	Approximately 12 crosswalks recommended	Y-neckdowns
30	Henry Street	Atlantic Avenue	Clark Street	Extend blue color textured bike lane	7,500/block	\$52,500	7-block segment	Y-neckdowns, bike box at Clark street with a leading bike interval
31	Hicks Street	Congress Street	Union Street	Install LPIs and Explore hi-visibility crosswalk instead of recommended textured crosswalk at signalized intersections for pedestrians crossing east-west	1,500/leg	\$33,000	Approximately 22 crosswalks recommended	
32	Union Street	Hicks Street	3rd Avenue	Install bike lane outside parking lane (report recommends textured lane).	7,500/block	\$60,000	Approximately 8 blocks/As recommended in NYC bike plan, however, only curb side bike routes will be considered for textured lanes	Y-neckdown on 3rd Avenue
33	Baltic Street	Hoyt Street	Bond Street	Install angle parking, mid-block crossing	27,000/midblock crossing	\$27,000	Will require further review	Y-neckdowns, gateway treatments and mid block crossing
34	Wyckoff Street	Hoyt Street	Bond Street	Mid-block crossing	27,000/midblock crossing	\$27,000	Will require further review	

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Total Number of Items	34
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All measures are subject to NYCDOT review

Source: NYC DOT Brooklyn Office

Total Estimated Cost for Short term implementable measures	<u>\$1,057,500</u>
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**Costs based on ARUP estimates/Pending NYCDOT review*