



2018 Project Review Sheet (2019 Construction)

City Council District 5

Ballot #5G

Project #	18-543
Project Title:	Traffic Calming & Crossing Improvements at NE 105 St and NE 104th PI
Location:	The intersection of NE 105 St and NE 104th PI.

SDOT Project Summary

SDOT approves project

- Yes
- Yes, with revisions
- No

Comments: Due to the geometry at the intersection of NE 105th St and NE 104th PI, installing floating median islands to clarify intended vehicle movements is recommended.

There is an opportunity to partner with another program:

- Yes
- No

Partnering Program: N/A

Total Project Cost: \$ 27,500

Solution and Comments:

This review has been completed for use in the 2018 Your Voice, Your Choice: Parks & Streets process.

Both NE 105th St and NE 104th Pl are non-arterial streets with low vehicle volumes. The intersection is uncontrolled and does not have any recorded collision history. Due to the geometry of the intersection, vehicle from eastbound NE 105th St turning onto southeast bound NE 104th Pl or vehicles merging from NE 104th Pl onto westbound NE 104th St are able perform their maneuver without decelerating. At a typical intersection, merging to another street requires vehicles to decelerate to navigate the turning maneuver. SDOT recommend installing floating median islands at the intersection to reconfigure the geometry to a more typical “T” design. The islands are proposed to be installed with c-curb and backfilled with asphalt. C-curb shall be painted white, and type 2A white, raised pavement markers should be added for visibility. The addition of an edge line across the driveway access is an option to further guide motorists at the intersection.

Image:

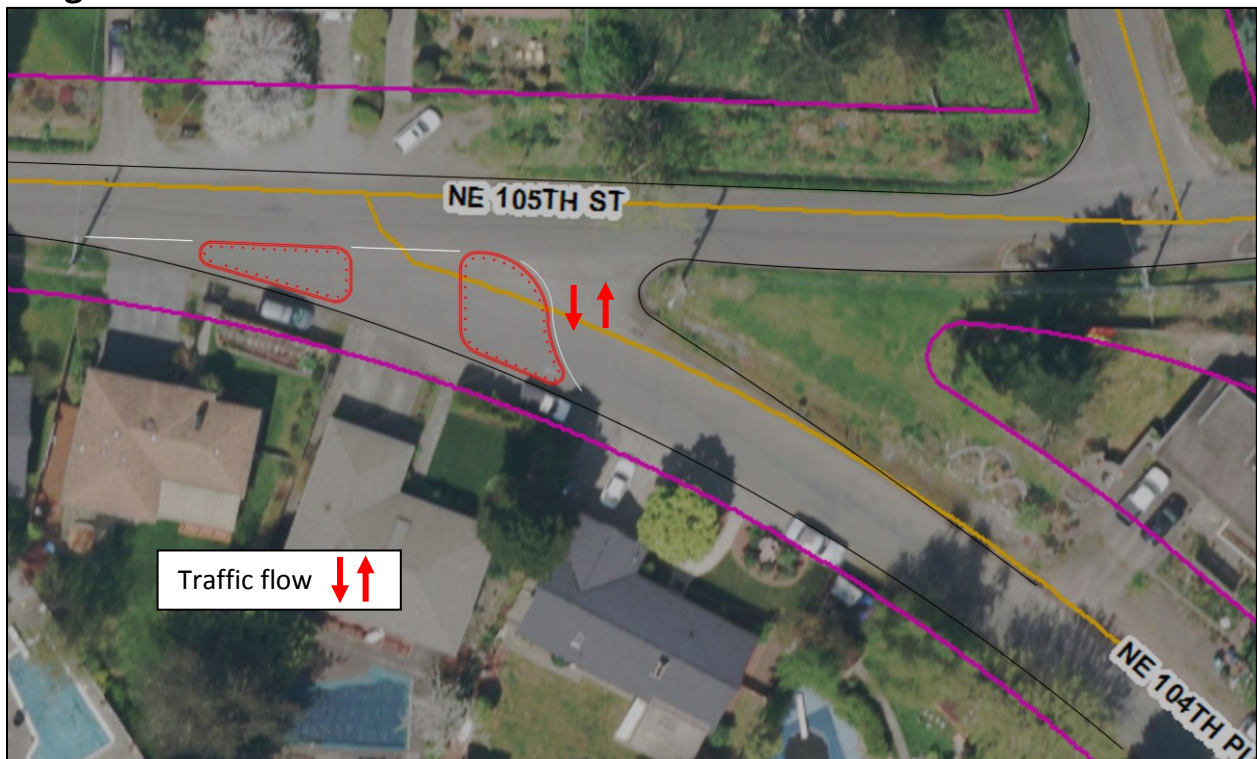


Figure 1: Proposed Improvement



Information Provided by Community Members

Project Idea: Traffic calming of some sort at the intersection of NE 104th PL and NE 105 ST. At a minimum, a yield sign should be installed at the most appropriate place in the intersection. We believe the sign should be placed so both drivers and bike riders going north/west on NE 104th PL are required to yield (or stop if a stop sign is deemed a better idea) to traffic going east or west on NE 105th St. Additionally, the new requirement should be painted on the street to help old habits change faster.

Need for Project: As it is now, NE 105 ST and NE 104th PL is a three-way blind intersection and all too often drivers don't know who should yield, and so no one does creating a dangerous situation for pedestrians, bike riders, and cars alike. An expectation of what is required at this intersection should create a more predictable outcome, making it safer for everyone using the intersection.

Community Benefit from Project: Anyone using the intersection will benefit from this traffic calming addition. Residents of the immediate area, as well as visitors to the neighborhood, whether they are on foot, bicycle, or in a vehicle will enjoy a safer intersection.



Risk Registry:

SDOT Review	Drainage impacts	Constructability	Community process
Low – SDOT standard plan	Low – no perceived impact	Low – SDOT standard plan	Moderate – communication with adjacent property owners

Cost Estimate:

Design Phase	
Preliminary Engineering (Survey) Costs	\$ 1,000
Project Management Costs (City Labor)	\$ 1,250
Design Costs (Consultant Fees, if externally designed, internal labor otherwise) - use 10% of construction cost for in-house design of relative uncomplicated projects	\$ 2,250
Subtotal – Design Phase Costs	\$ 4,500
Design Contingency (10% of Design Phase Subtotal)	\$ 500
Total Design Phase Costs	\$ 5,000
Construction Phase	
Construction Costs (include urban forestry, signs & markings, traffic control, layout or construction staking as necessary)	\$ 15,000
Drainage Costs	\$ 0
Estimating Contingency (10-20%)	\$ 2,000
Subtotal – Construction Costs	\$ 17,000
Construction Management (10-25% of Construction Cost)	\$ 2,000
Construction Contingency (20%)	\$ 3,500
Total Construction Phase Costs	\$ 22,500
Total Project Cost = Total Design and Construction Phase Costs	\$ 27,500