

A PLAN OF "WEST OF 15TH" AS A BIKE FRIENDLY NEIGHBORHOOD

Table of Contents

Project Statement 1
Introduction to the "West of 15th" 2
Introduction to the Brooklyn - 41st Threshold 3 3
Site Context4
Proposal Details 7 5
Site 1 8
Ste 2 12
Visioning circa 2025 16
List of Figures
List of Sources
Authors and Contributions

Project Statement

As Seattleis promoting to make its transportation system a more environmentally, economically and socially sustainable, University of Washington isparticipating in and contributing to the community planning of UniversityDistrict area, especially the "West of 15th" area. It is aiming tocreate a multimodal transportation system that contains biking, busing, takinglight rail as well as walking. The goalof this project is to make the West of 15th area a more bikefriendly district. It is expected to ease the traffic pressure and reduce thegreen house gas emission. It would also bring more social interactions on streetsthrough public transporting and increasing of walking. In order to achievethese goals, better connection between Brooklyn light rail station and UWcampus should be made. Safer and more accessible bike lanes and pavements should be built. More trees should also be planted in order to create a more comfortable environment for commuting.

THRESHOL \Box 刀 **DKLYN-41**

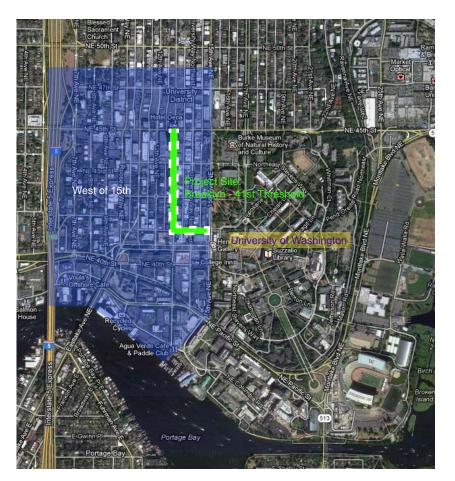


Fig. 1, Project Site loctes in "West of 15th" Area

Introduction to the "West of 15th"

The "West of 15th" refers to the area bounded by the highway I-5, and the 15th Avenue, reaching the 50th Street in the north, and enclosed by the waterfront in the south. The area is located in the University District of Seattle, just to the west side of University of Washington (UW). The "West of 15th" is an areawith mixed land use. While a majority of the structures in the "West of 15th" are residential, the University Way functions as the major commercial districtin the area. Buildings in different ages and styles spread out through theneighborhood. The population in the "Westof 15th" neighborhood is relatively denser as compared to the rest ofUniversity District.

As a result of thelocation, the University of Washington greatly influences the social and spatial characters of the "West of 15th" area. UW occupies approximately 4 millions GSF(Gross Square Feet) in the "West of 15th". Its recent investment in student housing hasbrought a considerable amount of new residents to the neighborhood. This has made the neighborhood's demographicsyounger and more diverse. Everyday, morethan 70,000 people come to the UW campus. Many of them pass through the "West of 15th" neighborhood ona daily base (Office of the University Architect 2010). This makes theneighborhood a dynamic transient area between the UW campus and other locations in Seattle.

The current transportation mode of this area is automobile-dominated. The nearbylocation to UW marks the area with heavy reliance on public transit. Althoughmost of the major roads in the "West of 15th" area have designated bike lanes, biking activity in this area is still limited. Positioned in the heart of "West of 15th", a new light railstation has been proposed by Sound Transit. The station will be located on the Brooklyn Avenue, in the block between the 43rd and 45thStreet. This new infrastructure will introduce a multimodal transportation system to the area. The Department of Planning and Development (DPD) has officially labeledthe "West of 15th" as an "Eco-District" to promote nonmotorizeduses.

Introduction to the Brooklyn-41st Threshold

The Brooklyn-41st Threshold is located along the central line of the "West of 15th" neighborhood. It consists with two major parts: the Brooklyn Avenue between 41st Street and 43rd Street, and 41st Street between Brooklyn Avenue and the 15th Avenue (the area is labeled green on the map). The Brooklyn Avenues is where the future light rail station is located on, and the 41st Street connects to one of the main pedestrian entrances of University of Washington. Therefor, this threshold is the one of the major pathways connecting the proposed light rail station and the University of Washington campus. This unique location and transient function brings the threshold relatively higher traffic flow as compared to other sections in the neighborhood. As thesame time, it also brings a need for a higher level of pedestrian and bike infrastructure Along the Brooklyn Avenue and the 41st Street.

Seeing the need and the potential of the threshold. The planning department of City of Seattle and University of Washington have both proposed a plan to turn the Brooklyn Ave into a bike friendly green street (Office of the University Architect 2010). This plan has envisioned afuture with multiple transportation modes, especially with a strong preference and reliance on public transit. In this future, the Brooklyn-41st threshold will play a increasingly significant role in connecting the light rail station and the UW campus and promoting non-automobile oriented transportation.







Fig. 2, Brooklyn - 41st Threshhold

Site Context

Located in the heart of the "West of 15th" neighborhood, and of the University District, the Brooklyn - 41st Threshold is a dynamic site with diverse spatial and social characteristics. With the aids of GIS maps, this section will analyze the site context from different spatial and social and perspectives.

Transportation Networks

The street network around the Brooklyn - 41st Threshold is organized with clear grid system. There are both two-way and one-way streets around this threhold. Most of the streets are having two lanes for each direction, some with street parking along the road. Public transit network has been spread out around the threshold offering a considerable number of bus routes. On the contrary, the bike routes in the neighborhood are less planned and developed. In the immediate context of the Brooklyn - 41st, very few streets are designated as bike routes. Among the few bike street, the Brooklyn Ave is a major one.



Fig. 3, nikes on UW campus

Fig. 4, bus on the University Avenue

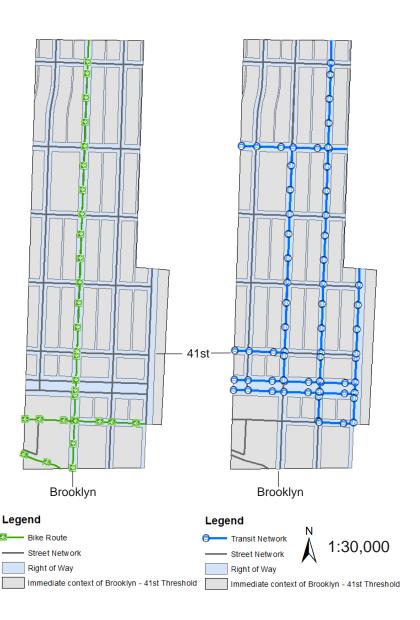


Fig. 5, Transportation Networks, Bike routes and Metro Transit

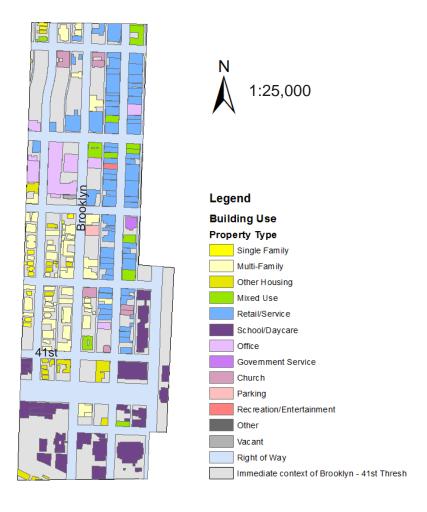


Fig. 6, Existing Building Uses

Current Building Uses

As illustrated in the map, the neighborhood around Brooklyn - 41st Threshold is an area with a mix of school facilitie, commercial and residential buildings.

Buildings labeled in purple are properties of University of Washington. They function as administration buildings, classrooms and dormitories. These buildings are mostly located in the south and east of the Brooklyn-41st Threshold.

Buildings labeled by blue in the map are for retail services, including restaurants, clothing, book store, etc. These commercial buildings are concentrated along the University Way (the Ave).

The yellow buildings on the map are residential buildings. A majority of them are multi family apartments. As mentioned earlier, students are the major residents in this area.

Other types of buildings spread out among the area, including churches, federal buildings, recreations facilities, etc. The overall building density of the area is high.



Fig. 7, UW Tower

Fig. 8, apartment building in the neighborhood



Fig. 9, Community Amenities

Community Amenities

The area around the Brooklyn - 41st Threshold has a variety of communty assests, ranging from post offices, churches to theatre.

The level of green in the area is average. Trees were planted along the roads. However, the neighborhood lacks designated green open spaces, such as parks or playgound.



Fig. 10, (above) the Napture Theatre on Brooklyn Ave and 45th St Fig. 11, (below) Church of Christ of Scientist on the University Way

(I)

Proposal Details

This project proposes bike friendly development on the Brooklyn - 41st Threshold, which is labled in dark blue on the map to the right. This Thredhold was chosen for its location between the UW campus and the future light rail station. With the proposed bike friendly developments, this threshold will function as a major transient area with considerable flow of pedestrians and bikers.

Major developments proposed in the project include:

- Adding designated bike lanes
- Adding crosswalks on the major interactions
- Changing some stop signs into traffic lights to promote pedestrian and biker safety
- Constructing an urban park
- Adding trees along the streets
- Changing the 41st Street into a non-automobile, pedestrain and biker only street

This report will focus on two sections of the threshold which are both the nodes of this area. Site maps and 3D models were created for the two sites to illustrate the details of the proposa.

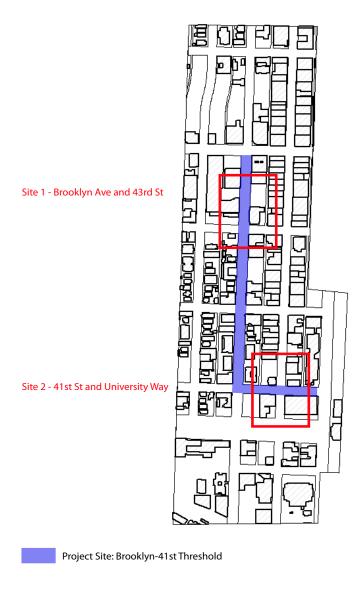


Fig. 12, SIte 1 & Site 2 Context Map

Site 1- Brooklyn and 43rd



On the current site, both Brooklyn Ave. and 43rd street are wide for driving but lacking bike lanes that people feel save to bike on. The road is bumpy and needed to be repaved. There are four stops signs at each of the corner. However, there are no sidewalks on the road. On northwest corner is UW tower and UW foundation building. On northeast corner the former site of Chase Bank. The bank was moved out in 2011 and the building is currently vacant. There are two parking lots on the site, one on south side of UW foundation building, and the other is on north side of former Chase Bank building. They are been frequently used by people who go to work around or people who want to go to University Way. On the southwest corner is a single family house that has been used as a leasing apartment and renting rooms seperately. There is a small public parking area on southside of the house. On the southeast corner is the University Manor Apartment which is a 9 stories-tall brick building. Tenants are mostly students from UW. In general, there are not many trees and bushes on the area, and plants are comparatively young than others in the district.

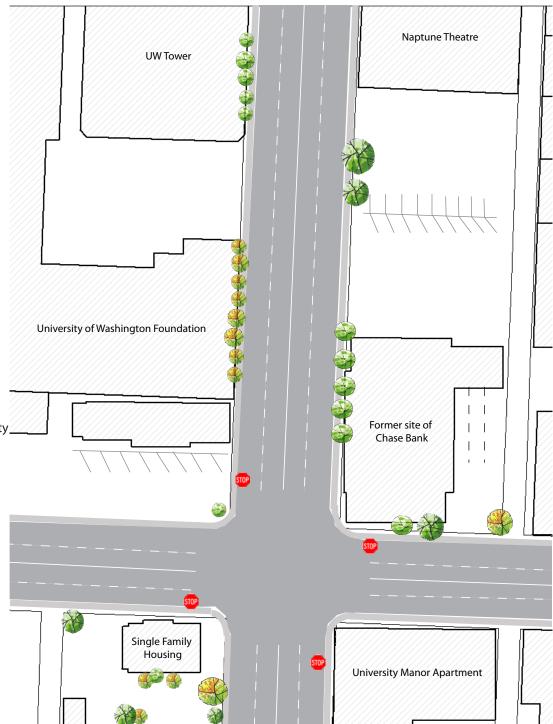


Fig. 13, Site 1 - Current Condition



On the envisioning site, the former Chanse Bank building, as well as a part of the northside parking area, will be replaced to the sound transit - Brooklyn light rail station. There is an entrance facing street on both north and south side of the station. Trees will be planted around the newly built station and in the parking lot. The single family house on the southwest corner will be substitued by an urban park, which offer the surrounding residences a place for social activities.

Sidewalks will be added on the intersections. Bike lane will be painted to green color and short shrubs will be planted between the bike lanes and driving lanes, for providing safer biking environment.

Stop signs on four corners of the intersection will be changed to traffic lights since heavier traffic is expected after the light rail station is built, and traffic lights are considered to provide safer walking environment.

Bike racks will be provided in both parking lots and also in the park as encouraging people to bike and using public transportation.

Fig. 14, Site 1 - After Envisioning



Fig. 15, Site 1 - Envisioning Urban Park & Light Rail Station



Fig. 16, Site 1 - Envisioning Brooklyn Ave and Light Rail Station



Fig. 17, Site 1 - Envisioning Intersection of Brooklyn Ave & 43rd Street

The urban park will provide open spaces for public activity. It allows sorrunding residences, as well as the commuting people who need to wait for their light rail or bus, to relax themselves in a natural environment. Moreover, bike racks are also available in the park, providing conviniences for bikers. This park, as the only big and green open space surrounded by all tall buildings, will offer people a place to release their high tension from the life in a mordern and high technology city.

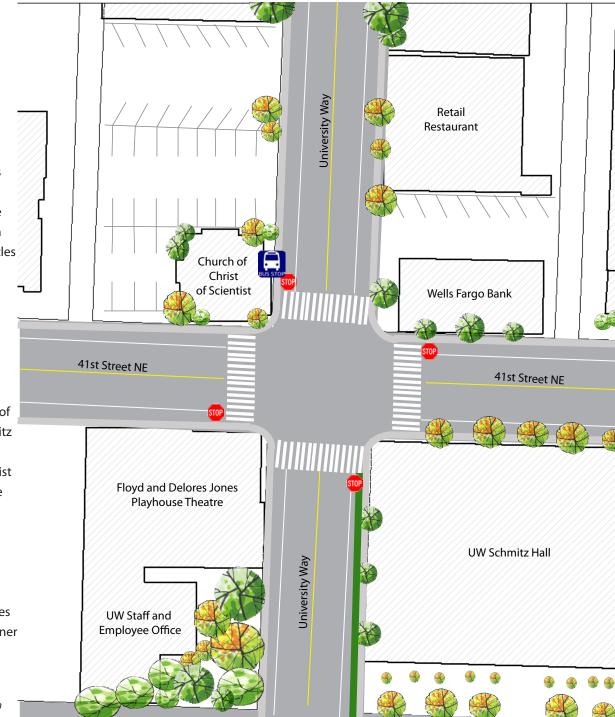
Bike lanes will be painted green and enclosed by a line of short shrubs, aiming to offer bikers a safer biking environment. Taller shrubs will be plantted on the edge of both sides pavements in order to prevent people from freely going across the road and at the same time providing people a more comfortable place to walk on.

Site 2- 41st and University Way

1:500

One the current site, there are four stop signs on each corner of the intersection as well as sidewalks on four sides. University Way is one of the busiest street around UW campus with the heaviest load of walkers, bikers and vehicles everyday going in and out from the campus. 41st street as a west-east connection is also frequently used by bikers because the road is wide and comparatively has less vehicles than others since both ends of west and east sides are dead ends. Both sides of University Way and 41st street have been used as parking places. There is also a short distance of designated biking lane on west side of Schmitz hall.

On the northwest corner is the church of Christ of Scientist. In front of the building facing the street, there is a bus stop containing major routes that commute from campus to other areas such as downtown. On the northeast corner is the Wells Fargo Bank, owning a big area of paring spaces in the back. On the southwest corer is the Floyd and Delores Jones Playhouse Theartre and on the southeast corner is the Schmitz hall.





On the envisioning site, the 41st street will be used as a Biker and Pedestrian only street. Parking spaces will be moved to the back of Church of Christ of Scientist and the entire road will be painted green. On the edge of the road, tall bushes will be planting for isolating the pavements and the biking lane. Short shrubs will be planted in middle of the bike lane as division of two-way biking lane. Bike lanes will also be added on University Way. They will be painted green and also encircled by short shrubs as the same as site 1.

Fig. 19, Site 2 - After Envisioning



Fig. 20, Site 2 - Envisioning Intersection of University Way & 42nd Street

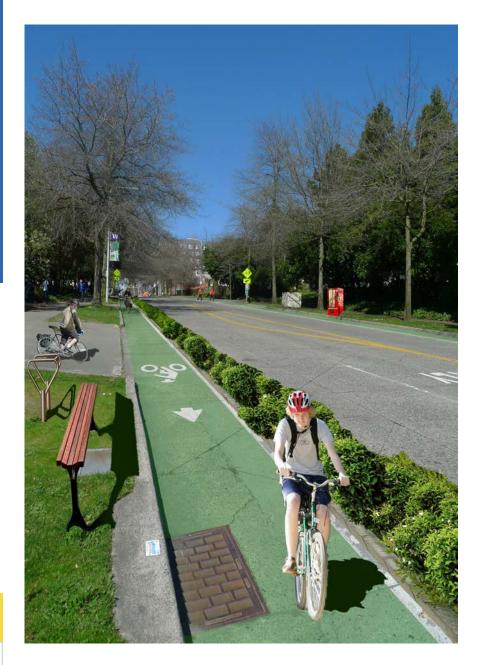


Fig. 21, Site 2 - Enivisioning Church of Christ of Scientist



Fig. 22, Site 2 - Envisioning Wells Fargo Bank

Bike lanes will be painted green on both University Way and 42nd street. Trees will be planted in the middle of 42nd street and short bush will be planted to encircle the bike lanes on University Way. Taller bushes will be planted on the edge of the pavement. Bike racks will be available on both parking lots close to the church and the bank.





A GREEN FUTURE FOR THE BIKERS

WITH BIKE FRIENDLY INFRASTRUCRTURE AND AMENITIES





BROOKLYN - 41ST THRESHOLD,
A DYNAMIC, GREEN AND BIKE FRIENDLY NEIBORHOOD

List of Figures

Fig. 1, Project Site loctes in "West of 15th" Area	P2
Fig. 2, Brooklyn - 41st Threshhold	Р3
Fig. 3, nikes on UW campus	P4
Fig. 4, bus on the University Avenue	P4
Fig. 5, Transportation Networks, Bike routes and Metro Transit	P4
Fig. 6, Existing Building Uses	P5
Fig. 7, UW Tower	P5
Fig. 8, apartment building in the neighborhood	P5
Fig. 9, Community Amenities	P6
Fig. 10, the Napture Theatre on Brooklyn Ave and 45th St	P6
Fig. 11, Church of Christ of Scientist on the University Way	P6
Fig. 12, SIte 1 & Site 2 Context Map	P7
Fig. 13, Site 1 - Current Condition	P8
Fig. 14, Site 1 - After Envisioning	P9
Fig. 15, Site 1 - Envisioning Urban Park & Light Rail Station	P10
Fig. 16, Site 1 - Envisioning Brooklyn Ave and Light Rail Station	P11
Fig. 17, Site 1 - Envisioning Intersection of Brooklyn Ave & 43rd Street	P11
Fig. 18, Site 2 - Current Condition	P12
Fig. 19, Site 2 - After Envisioning	P13
Fig. 20, Site 2 - Envisioning Intersection of University Way & 42nd Street	P14
Fig. 21, Site 2 - Enivisioning Church of Christ of Scientist	P15
Fig. 22, Site 2 - Envisioning Wells Fargo Bank	P15

List of Sources

DEPARTMENT OF TRANSPORTATION Federal Transit Administration. (2009). "Final Policy Statement on the Eligibility of Pedestrian and Bicycle Improvements Under Federal Transit Law". Federal Register. Vol. 76, No. 161.

Jacobs, M., Lee, B., Lee., S. (2011). "UW Tower Brooklyn Station Construction Impacts". Community, Environment and Planning.

Officer of the University Architect. (2012). "Planning for UW's Future – Campus and Community West of 15th". University of Washington Office of Planning and Budgeting.

"Seattle Bicycle Master Plan". (2007). City of Seattle.

"University Area Transportation Action Strategy". (2012). Seattle Department of Transportation.

"University of Washington Master Plan - Seattle Campus". (2003). University of Washington.

Authors and Contributions

Kailin Wang

Junior student of the Community, Environment and Planning program in the Department of Urban Design and Planning, with academic focuses on urban landscape design and historic preservation.

Contributions:

- 1. Wrote up the introduction of "West of 15th" and of Brooklyn-41st Threshold
- 2. Created the GIS maps for context
- 3. Analyzed the spatial and social characteristics of the neighborhood
- 4. Created the site maps (based on GIS map, editted by Illustrator) of the current condition proposed condition for both sites
- 5. Compiled the report and formatted it by InDesign

Chuhan Zheng

Junior student of the Community, Environment and Planning program in the Department of Urban Design and Planning, with academic focuses on eco-tourism planning and historic preservation.

Contributions:

- 1. Wrote up the Project Statement
- 2. Composed the explanations of the site maps, offering details of the proposal
- 3. Created SkechUp models for both sites to show details of the proposal in 3D
- 4. Processed images through Photoshop to visulize the site in the future
- 5. Wrote up captions for images and figures, and compiled the List of Figures
- 6. Revised the format of the report