

CITY TRAFFIC ENGINEER'S REPORT

ISSUE NO. TC 755

Crosswalk and Pedestrian Beacon on NW 118th Avenue at Cedar Falls Drive.

February 10, 2017

Background Information

Ms. Kali Bader, Vice President of Rembold Properties, requested the installation of a crosswalk and a pedestrian beacon on NW 118th Avenue at Cedar Falls Drive (see attached request letter). Ms. Kali indicated that since completion of the Ackerly at Timberland Development (a 147 senior-housing units on NW 118th Avenue) there have been many complaints from residents and visitors. The concern is about the difficulty and safety crossing 118th Avenue to get to the commercial center across the street. The City has also received several requests from residents in the area to install a crosswalk on 118th Avenue to improve pedestrian safety at the intersection.

The classification of 118th Avenue is a 3-lane Collector Street with a posted speed limit of 30 mph. There are sidewalks on both sides of the street including a landscaped median island. The pavement width of 118th Avenue at the intersection with Cedar Falls is 58 feet. In addition to the median island, the intersection has exclusive left turn lanes (see attached drawing).

A traffic count taken in July 2015 showed that NW 118th Avenue north of Cedar Falls Drive carries approximately 3,200 vehicles per day. The 85th percentile speed was recorded at 35 mph (meaning 85% of the drivers were driving at or below this speed). There has been one reported crash on 118th Avenue at Cedar Falls Drive during the most recent three years of available crash data. The crash was an angle type crash where the driver disobeyed the stop control at the intersection.

Vehicle and pedestrian crossing counts were collected by Kittelson and Associates at the intersection in November 2016 between 8:00 a.m. and 11:00 a.m. The count showed that 4 pedestrians crossed 118th Avenue during the mid-morning peak hour and 392 vehicles crossed the north leg of the intersection during the same hour. A projection of the p.m. peak hour vehicular and pedestrian volumes for the Timberland Development shows 895 vehicles and 20 pedestrians crossing at the intersection. It is also anticipated that the pedestrian activity volume will increase with the completion of the Timberland Development with full use of the new middle school.

Based on the data collected and guidance in The National Cooperative Highway Research Program (NCHRP) Report 562: *Improving Pedestrian Safety at Unsignalized Intersections*, an enhanced/active crossing should be considered, such as medians, curb extensions and pedestrian activated flashing beacons.

The Manual on Uniform Traffic Control Devices (MUTCD) gave interim approval to allow for the use of Rectangular Rapid Flashing Beacons (RRFB) as a warning device to supplement

standard pedestrian crossing warning signs and markings, where the crosswalk approach is not controlled by a yield or a stop sign, or by a traffic signal.

Research on the RRFB showed a very high compliance rate of motorists yielding to pedestrians. The research showed the RRFB has a high 80's to almost 100 percent compliance rate in comparison to 15 to 20 percent range for a standard yellow circular flashing beacon. Also, the high yielding rates are sustained after 2 years in operation.

Staff is proposing to install a marked crosswalk and Rectangular Rapid Flashing Beacons on the north side of the intersection of NW 118th Avenue and Cedar Falls Drive. The owners of the Ackerly will fund and construct the new proposed crosswalk and the RRFB.

Applicable Criteria

The applicable criteria from Beaverton Code 6.02.060A is:

- 1a (provide for safe vehicle, bicycle and pedestrian movements);
- 1b (help ensure orderly and predictable movement of vehicles, bicycles, and pedestrians);
- 2 (all proposed new traffic devices shall be based on the standards of the MUTCD).

Conclusions:

1. The installation of a marked crosswalk and RRFB's on NW 118th Avenue at Cedar Falls Drive would improve pedestrian safety and ensure orderly and predictable movement of vehicles and pedestrians, satisfying Criteria 1a and 1b.
2. The Rectangular Rapid Flashing Beacons meets the guidelines of the MUTCD, satisfying Criterion 2.

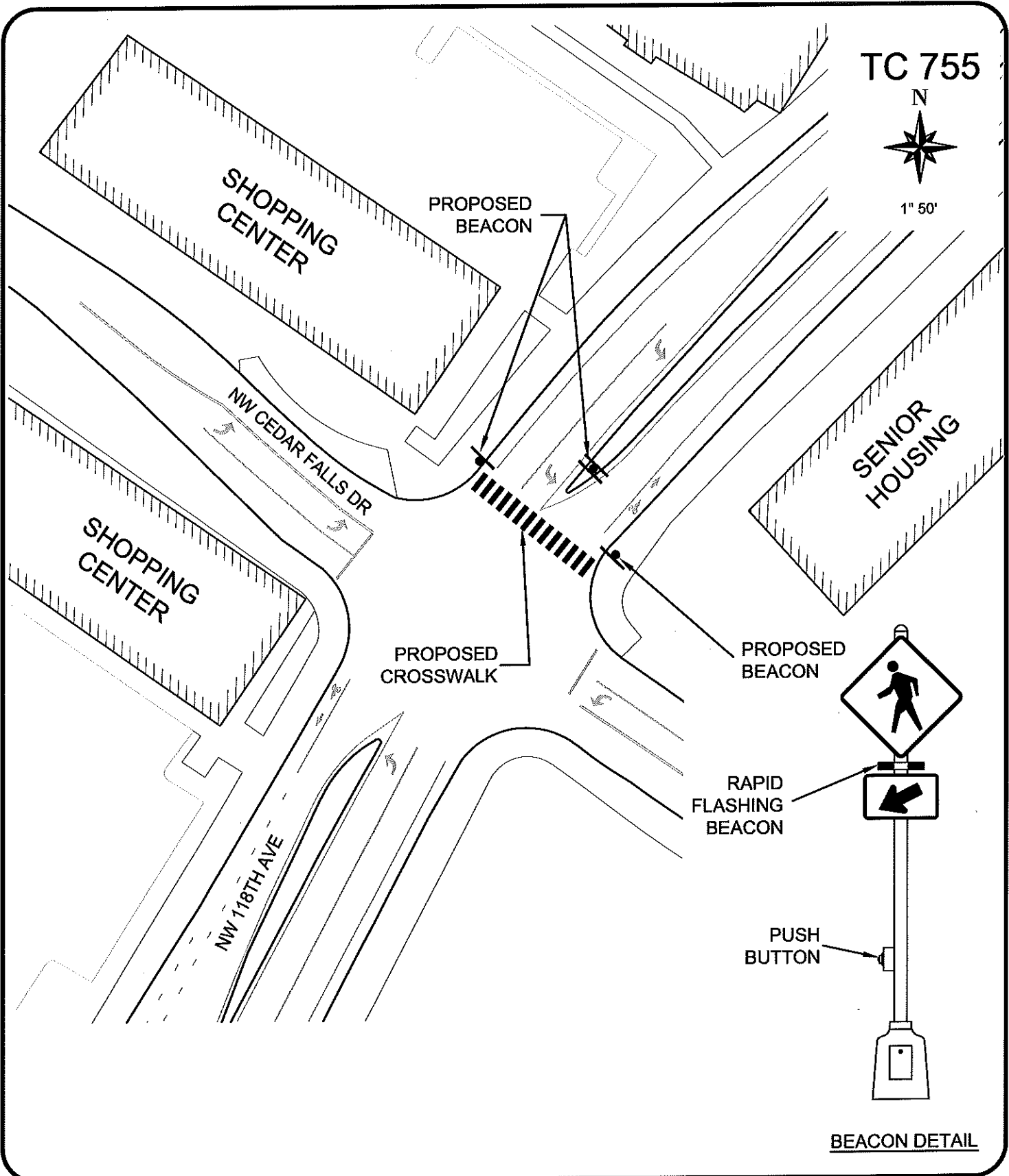
Recommendation:

1. Approve the request to install a marked crosswalk and Rectangular Rapid Flashing Beacons on the north side of the intersection of NW 118th Avenue and Cedar Falls Drive.

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1" = 50'



BEACON DETAIL

TRANSPORTATION Drawings 2017-3 - Corvallis - Feb 2017 - NW 118th Ave @ Cedar Falls Dr - EASE 17.0wg



CROSSWALK AND PEDESTRIAN BEACON
ON NW 118TH AVE AT CEDAR FALLS DR

PUBLIC WORKS DEPARTMENT
TRANSPORTATION SECTION

Drawn By: AL Date: 2-9-17

Reviewed By: _____ Date: _____

Approved By: _____ Date: _____



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January 19, 2017

Jabra Khasho
Traffic Engineer
City of Beaverton
12725 SW Millikan Way
Beaverton, OR 97005

RE: Crosswalk at 118th and Cedar Falls in Timberland Neighborhood

Dear Jabra:

Rembold Properties recently completed the development of 147 senior-housing units at The Ackerly in the Timberland neighborhood. It is on one of the last two remaining parcels in the successful neighborhood that includes a large middle school, numerous rental and condo properties, an expansive retail center and a soon to be hotel/retail/office development on the remaining undeveloped block (The Kirkland Center).

Our project is 54% occupied after opening in August and we have received numerous complaints from residents, their visiting families, construction workers and staff about the inability to safely cross 118th to access the retail center. The car traffic moves quickly, drivers often are not current neighborhood residents, and the elevation change along with various turns occurring in that small space makes it difficult to see pedestrians. After an 18-month build, I have personally watched many near accidents at the intersection, primarily when pedestrians were trying to access the retail center. Once our building is full and the neighboring parcel is built-out, not to mention the addition of many mobile middle school students, we worry that the crossing will become even more dangerous. The neighborhood HOAs have heard we are trying to get city support for a crosswalk and they have expressed strong support in our efforts to help ensure pedestrian safety within a very popular and active multi-use neighborhood.

The owners of The Ackerly have already commissioned a study from Kittelson in support of the crosswalk. The study is attached. The owners are also willing to fully pay for the crosswalk as suggested by Kittelson. We are requesting the City of Beaverton's support and approval for the crosswalk as well as an exemption for the ADA ramp slopes on one of the approaches. I am happy to meet with you, along with Kittelson, if you have any questions. Thank you for addressing this very important matter.

A handwritten signature in black ink that reads "Kali Bader". The signature is written in a cursive, flowing style.

Kali Bader
Vice President
Rembold Properties, LLC

MEMORANDUM

Beaverton Police Department



DATE: February 16, 2017

TO: Jabra Khasho, City Transportation Engineer

FROM: Sergeant Steve Schaer

SUBJECT: Traffic Commission Issues No. TC 755

On review of the City Traffic Engineer's report, and my visitation of the location, I concur with the Traffic Engineer's recommendation to approve the request to install a marked crosswalk and Rectangular Rapid Flashing Beacons on the north side of the intersection of NW118th Avenue and Cedar Falls Drive.

Thank you,

Sgt Steve Schaer

Jabra Khasho

From: Paul Tatsch <papstatsch@gmail.com>
Sent: Sunday, February 12, 2017 1:36 PM
To: Jabra Khasho
Subject: Issue TC 755

RE: Issue TC 755

My name is Mrs. Paula Tatsch and I live at 410 NW Lost Springs Terrace in the Cedar Falls Apartments (Portland 97229). My husband and I walk daily and have found it to be increasingly difficult to cross with all the traffic on 118th, especially with cars turning into and out of the Timberland Town Center.

I called the City of Beaverton a few months ago after the Ackerly (Senior Living Facility) opened but was told that a marked cross-walk couldn't be done because of budget restrictions. Now, they have a school bus stop at the same corner. It would be beneficial for all of us, if there was a marked cross-walk.

I am unable to be at the Public Hearing on March 2nd but am very interested in having something done to protect the people of our community. Thank you for your time and interest.

Sincerely,

Paula Tatsch
(971)371-4198

Jabra Khasho

From: MCCONNELL Thomas E <Thomas.E.MCCONNELL@odot.state.or.us>
Sent: Tuesday, February 14, 2017 9:20 AM
To: Jabra Khasho
Cc: 'Lisa McConnell'
Subject: Issue TC 755: Crosswalk and Pedestrian Beacon on NW 118th/Cedar Falls Drive

Hi Jabra –

Please accept this email as our full support for the proposed crosswalk and pedestrian beacon at the NW 118th and Cedar Falls Drive intersection. There are many residents on the east side of NW 118th that cross at that location to get to the commercial area on the west side of NW 118th Avenue. At certain times of day it can be very difficult to cross there due to the volumes of traffic on NW 118th. Without the visual aid of the crosswalk and beacon most cars do not stop for pedestrians waiting to cross at that corner. The crosswalk will be especially helpful now that the recently opened Ackerly senior housing facility is located at the northeast corner of that intersection. With the planned development of the southeast corner of that intersection with a hotel and retail/office spaces, traffic will only increase further on NW 118th.

Please enter this email of support into the record for the Traffic Commission meeting on March 2, 2017.

Tom and Lisa McConnell
11720 NW Cedar Falls Drive
Portland OR 97229

TC 755

Jabra Khasho

From: Jenny Alvarez <jalvarezot@yahoo.com>
Sent: Tuesday, February 14, 2017 11:01 AM
To: Jabra Khasho
Subject: Crosswalk NW 118th at cedar falls

Hello,

I won't be able to join the public hearing regarding this issue. However I am in agreement with a lighted crosswalk at this intersection and the one up the hill by the school.

Thank you,
Jenny Alvarez
10272 NW Alpenglow way
Portland, or 97229

Sent from my iPhone

TC 755

Mr. Jabra Khasho
City Traffic Engineer
City of Beaverton
P.O. Box 4755
Beaverton, OR 97076

RECEIVED
CITY OF BEAVERTON

FEB 15 2017

RE: Traffic Commission Public Hearing
Thursday, March 2, 2017

COMMUNITY DEVELOPMENT

Dear Mr. Khasho,

I would like to submit this written testimony in advance of the public hearing on March 2nd, in regards to issue TC755.

I support the installation of crosswalk striping and a pedestrian beacon on NW 118th Ave. at Cedar Falls Drive.

On January 28, 2016 I sent the following email to our city traffic engineer, which I would like to read at this time as it states the basis of my testimony in favor of installation. (copy enclosed).

Mr. Khasho replied promptly sighting the most recent traffic study which was done in July of 2015. From this study Mr. Khasho made a proper decision stating the installing of striping and a light was not warranted at this time. However, this study was done prior to any of the commercial development of the area.

With the completion of the commercial property on the west side of 118th and the Ackerly Assisted living facility on the northwest corner, the pedestrian traffic has significantly increased since the July 2015 study.

I believe we still have a chance to be proactive. As the occupancy in the Ackerly increases and with the development of the commercial property to the east of 118th, I believe we will again have an increase in pedestrian traffic.

Thus, the installation of crosswalk striping and a pedestrian beacon are warranted at this time.

Sincerely,



Tim Van Natta
250 NW 117th Loop
Portland, OR 97229
503-929-3299

timvannatta@msn.com