



MEMORANDUM

To:

From: Tim Payne

Date: January 29, 2015

Subject: Walk sheds around proposed BRT stops

Currently, Routes B, DD, and DM have 15 stops between Table Mesa Park & Ride and Boulder Transit Center. When US-36 BRT is implemented, fewer stops could be used in order to increase operating speeds. Two groups of stops are proposed for further conversation. The first group consists of five stops, which would lead to an average stop spacing of about one mile. These stops include:

- Table Mesa Park & Ride
- Table Mesa Dr & Broadway/39th
- Broadway & Baseline
- Broadway & 16th St/Euclid
- Boulder Transit Center

An additional three stops could also be included to increase the total to eight, which would lead to an average stop spacing of about ½ mile. These stops include:

- Broadway & 27th
- Broadway & 20th/Regent
- Broadway & Canyon

An analysis was conducted to determine the walk shed size of the different stop spacing scenarios and to compare them to the current walk shed size. The walk shed was measured through the street network, so that it represents a true walking distance and not an “as the crow flies” distance. Both quarter mile and half mile walk sheds were calculated.

Tables 1 and 2 present the numerical results of the analysis. With half mile stop spacing, the walk shed is about 50% of the existing walk shed using current stops. With mile stop spacing, the walk shed is about 30% of existing. This is true for both half mile and quarter mile walk sheds.

The walk sheds are illustrated graphically in Figures 1, 2, and 3 on the following pages. With half mile stop spacing, practically all portions of the corridor are within a half mile of a stop, but there are many areas just off the corridor that are not. Coverage is lowest between Baseline Rd and Table Mesa Dr due to fewer stops on this segment. With mile spacing, there is less coverage overall due to fewer stops in this scenario.

US-36 BRT STOP SPACING ANALYSIS

Table 1: Half Mile Walk Distance Buffer

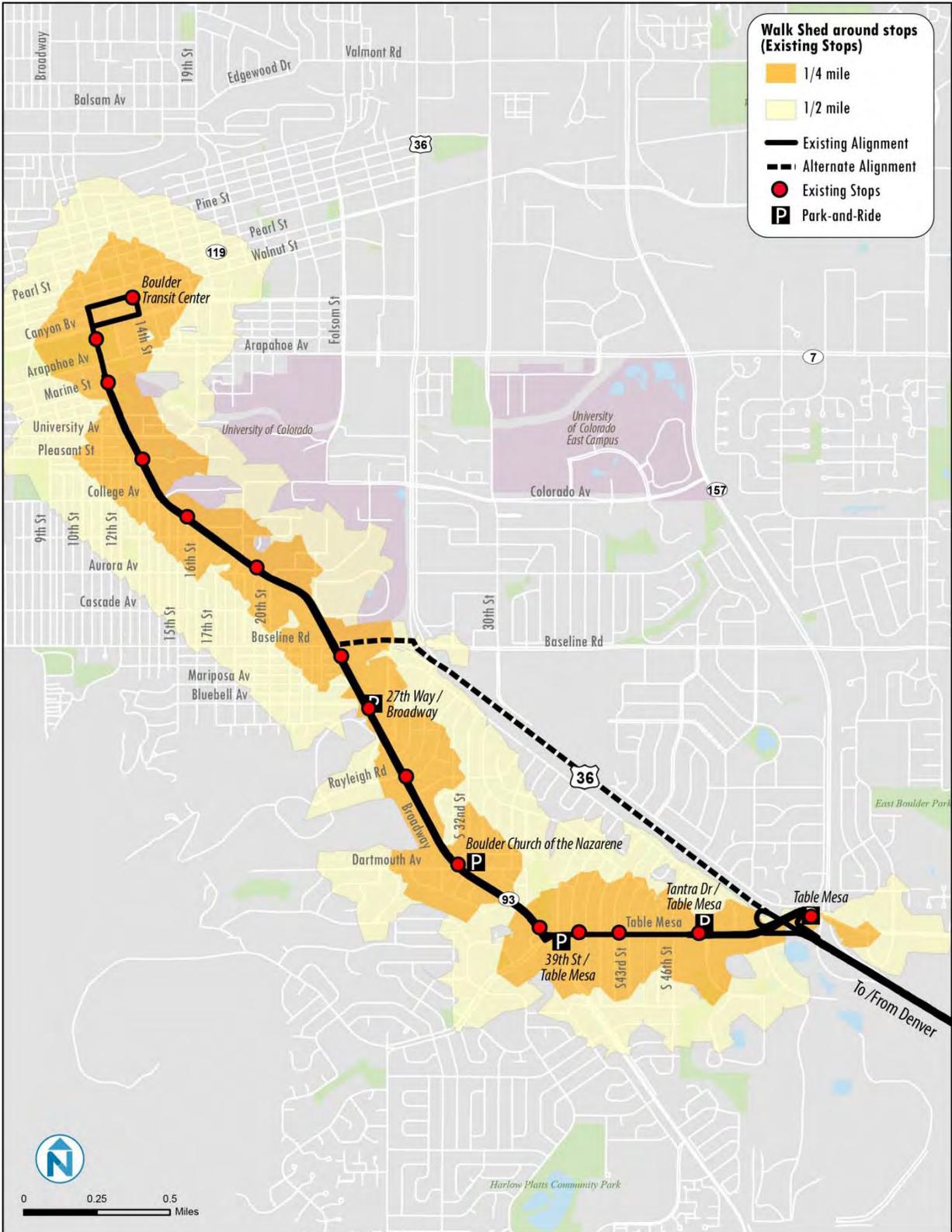
Stop Spacing	Area within 1/2 Mile Walk Distance (Sq. Mi.)	Percent of Current
Current	5.57	100%
Half Mile	2.86	51%
Mile	1.73	31%

Table 2: Quarter Mile Walk Distance Buffer

Stop Spacing	Area within 1/4 Mile Walk Distance (Sq. Mi.)	Percent of Current
Current	1.4	100%
Half Mile	0.65	46%
Mile	0.39	28%

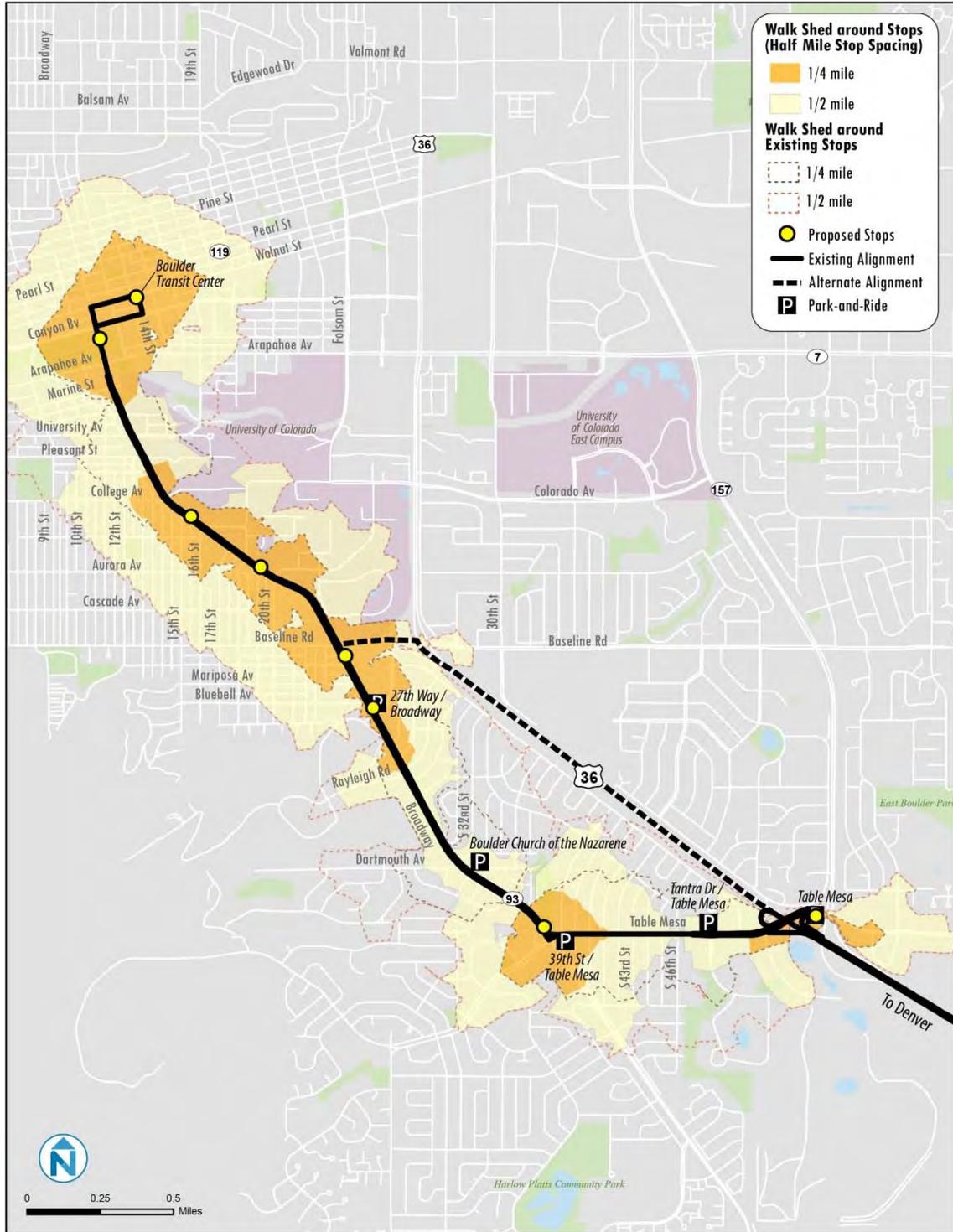
US-36 BRT STOP SPACING ANALYSIS

Figure 1: Walk Shed Current Broadway Stops



US-36 BRT STOP SPACING ANALYSIS

Figure 2: Walk Shed Around Stops: Half Mile Stop Spacing



US-36 BRT STOP SPACING ANALYSIS

Figure 3: Walk Shed Around Stops: Mile Stop Spacing

