



**Legend**

- Arrowboard (Single)
- Cone
- Flagger for Pedestrians
- Work Area

SIGN, CHANNELIZER, & TAPER SPACING NOT TO SCALE. TO BE DETERMINED BY CHART

- Contractor Notes:**
- All traffic control devices shall conform to the latest edition of California Manual of Uniform Traffic Control Devices and the Standard Specifications for Public Work.
  - Flashing beacon(s) will be placed at the location(s) indicated for lane closures during the hours of darkness.
  - All workers shall be equipped with a reflective vest. All flaggers shall also be equipped with a C28 "Stop/Slow" paddle and shall be trained in the proper fundamentals of flagging traffic.
  - Any conflicting signs shall be covered for the length of the job.
  - Access to residents and businesses shall be maintained at all times unless noted.
  - A safe pedestrian route will be maintained at all times.
  - Lane width will be maintained at 11 foot minimum unless noted otherwise.
  - Traffic control personnel will accommodate emergency vehicles at all times.
  - "Uneven Pavement Surface" signs to be installed at all lateral milled transitions.
  - Engineer has authority to institute changes to ensure safety.

**Minimum Taper Length and Maximum Channelizer Device Spacing**  
CA MUTCD 2014

Speed <sup>(1)</sup> MPH(s)	Merging Taper Spacing FT	Shifting Taper 1/2 L FT	Shoulder Taper 1/3 L FT	Buffer Space(s)	Maximum Channelizer Spacing Tapers)	Maximum Channelizer Spacing Tangents)
20	80	40	27	115	20	40
25	125	63	42	155	25	50
30	180	90	60	200	30	60
35	245	123	82	250	35	70
40	320	160	107	305	40	80
45	540	270	180	360	45	90
50	600	300	200	425	50	100
55	660	330	220	495	50	100
60	720	360	240	570	50	100
65	780	390	260	645	50	100
70	840	420	280	730	50	100
75	900	450	300	820	50	100
Local Agency Freeways <sup>(2)</sup>	1000	500	330	1000	1000	98
Pedestrians	N/A	10	6	N/A	3	6
Bicyclist	Use Roadway Sign Spacing	38	25	N/A	12	25

(1) Refer to specific State requirements for work on State Freeways and State Highways. Posted speed or observed operating speed (whichever is greater).

(2) Channelizer spacing shall be reduced in half at areas where work is taking place, on curves, or areas of head-on conflict.

(3) Buffer space may be omitted in low speed urban areas, should be increased on downgrades and should be kept clear of equipment and materials, except for a Shadow Vehicle.

**Recommended Advance Warning Sign Spacing**  
CA MUTCD 2014

Road Type	Distance Between Signs		
	A	B	C
Urban – 25 mph or less*	100 ft	100 ft	100 ft
Urban – more than 25 mph to 40 mph*	250 ft	250 ft	250 ft
Urban – more than 40 mph*	350 ft	350 ft	350 ft
Rural	500 ft	500 ft	500 ft
Expressway / Freeway	1000 ft	1500 ft	2640 ft

\* Posted speed limit, 45 mph (50 mph for speed prior to work starting), or other anticipated operating speed in mph.

**Charleston Rd Right Lane Closure**  
**Work Performed: Concrete Work**  
**Limit of Work: As Shown in Green**  
**Working Hours: 9:00 AM to 4:00 PM**  
**Working Days: Mon - Fri**  
**Streets Speed Limit: 25 MPH**

**Date:** 10/19/2021 **Author:** Brett Hickman **Project:** Palo Alto Charleston - Arastradero Phase 3 Project  
**Comments:**  
 Plan Sheet 45R1