

Table 6C-3(CA). Taper Length Criteria for Temporary Traffic Control Zones (for 12 feet Offset Width)

Speed* S (mph)	Minimum Taper Length** for Width of Offset 12 feet (W)			
	Merging L (feet)	Shifting L/2 (feet)	Shoulder L/3 (feet)	Down Stream (feet)**
20	30	40	27	50
25	125	63	42	50
30	190	90	60	50
35	245	123	82	50
40	320	160	107	50
45	540	270	180	50
50	600	300	200	50
55	660	330	220	50
60	720	360	240	50
65	780	390	260	50
70	840	420	280	50
75	900	450	300	50

* - Posted speed limit, off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph.

** - For other offsets use the following merging taper length formula for L:
For speeds of 40 mph or less, L=WS/160
For speeds of 45 mph or more, L=WS

Where:
L = taper length in feet
W = width of offset in feet
S = posted speed limit, off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph

Maximum downstream taper length is 100 feet. See Section 6C.08.

Table 6F-101(CA). Maximum Spacing of Channelizing Devices

Speed (mph)	Maximum Channelizing Devices Spacing		
	Taper (feet)	Tangent (feet)	Conflict** (feet)
20	20	40	10
25	25	50	12
30	30	60	15
35	35	70	17
40	40	80	20
45	45	90	22
50	50	100	25
55	50	100	25
60	50	100	25
65	50	100	25
70	50	100	25
75	50	100	25

* Maximum channelizing device spacing for all speeds on one-lane/two-way tapers is 20 feet.
Maximum channelizing device spacing for all speeds on downstream tapers is 20 feet.
All other tapers are as shown.

** Use on intermediate and short-term projects for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizing devices.

Table 6C-1. Recommended Advance Warning Sign Minimum Spacing

Road Type	Distance Between Signs**		
	A	B	C
Urban - design speed - 25 mph or less***	100 feet	100 feet	100 feet
Urban - more than 25 mph to 40 mph***	250 feet	250 feet	250 feet
Urban - design speed - more than 40 mph***	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,000 feet	2,000 feet

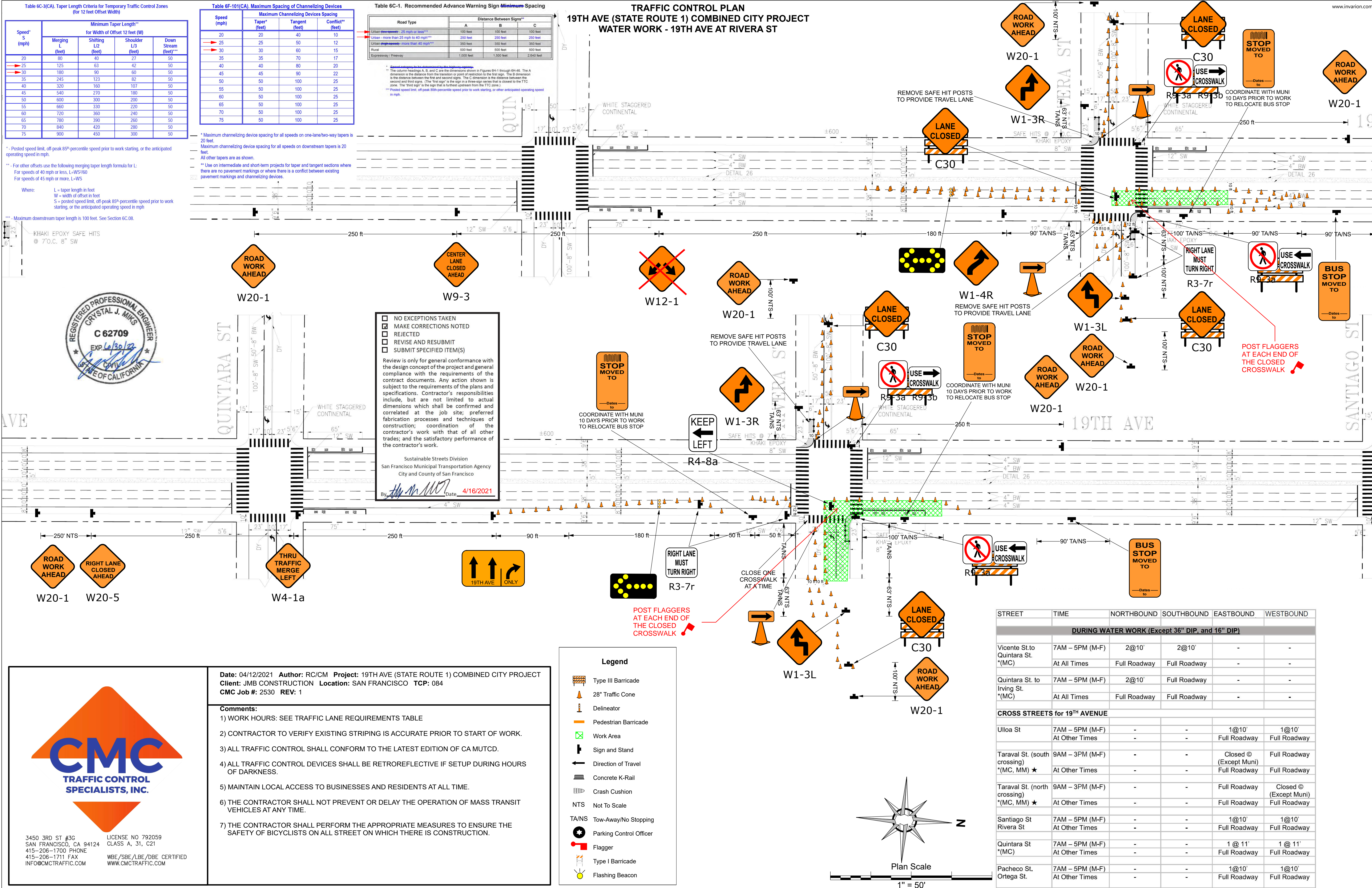
*** The column headings A, B, and C are the dimensions shown in Figures 6C-1 through 6C-4. The A dimension is the distance from the transition or point of transition to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. The first sign is the sign in the advance warning area that is closest to the TTC zone. The third sign is the sign that is furthest upstream from the TTC zone.

*** Posted speed limit, off-peak 85th percentile speed prior to work starting, or other anticipated operating speed in mph.

TRAFFIC CONTROL PLAN

19TH AVE (STATE ROUTE 1) COMBINED CITY PROJECT

WATER WORK - 19TH AVE AT RIVERA ST



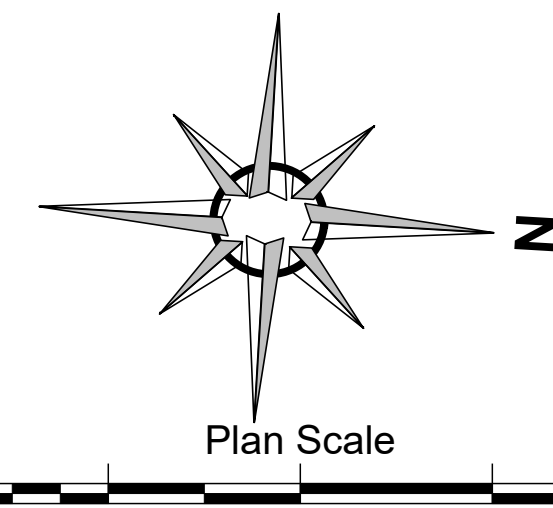
NO EXCEPTIONS TAKEN
MAKE CORRECTIONS NOTED
REJECTED
REVISE AND RESUBMIT
SUBMIT SPECIFIED ITEM(S)

Review is only for general conformance with the design concept of the project and general compliance with the requirements of the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor's responsibilities include, but are not limited to, actual dimensions which shall be confirmed and correlated at the job site; preferred fabrication processes and techniques of construction; coordination of the contractor's work with that of all other trades; and the satisfactory performance of the contractor's work.

Sustainable Streets Division
San Francisco Municipal Transportation Agency
City and County of San Francisco

By: *[Signature]* Date: 4/16/2021

- ### Legend
- Type III Barricade
 - 28" Traffic Cone
 - Delineator
 - Pedestrian Barricade
 - Work Area
 - Sign and Stand
 - Direction of Travel
 - Concrete K-Rail
 - Crash Cushion
 - NTS Not To Scale
 - T/ANS Tow-Away/No Stopping
 - Parking Control Officer
 - Flagger
 - Type I Barricade
 - Flashing Beacon



STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
DURING WATER WORK (Except 36" DIP, and 16" DIP)					
Vicente St. to Quintara St. *(MC)	7AM - 5PM (M-F) At All Times	2@10' Full Roadway	2@10' Full Roadway	- -	- -
Quintara St. to Irving St. *(MC)	7AM - 5PM (M-F) At All Times	2@10' Full Roadway	Full Roadway	- -	- -
CROSS STREETS for 19TH AVENUE					
Ulloa St	7AM - 5PM (M-F) At Other Times	- -	- -	1@10' Full Roadway	1@10' Full Roadway
Taraval St. (south crossing) *(MC, MM) ★	9AM - 3PM (M-F) At Other Times	- -	- -	Closed @ (Except Muni) Full Roadway	Full Roadway
Taraval St. (north crossing) *(MC, MM) ★	9AM - 3PM (M-F) At Other Times	- -	- -	Full Roadway	Closed @ (Except Muni) Full Roadway
Santiago St	7AM - 5PM (M-F) At Other Times	- -	- -	1@10' Full Roadway	1@10' Full Roadway
Quintara St *(MC)	7AM - 5PM (M-F) At Other Times	- -	- -	1 @ 11' Full Roadway	1 @ 11' Full Roadway
Pacheco St. Ortega St.	7AM - 5PM (M-F) At Other Times	- -	- -	1@10' Full Roadway	1@10' Full Roadway



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Date: 04/12/2021 Author: RC/CM Project: 19TH AVE (STATE ROUTE 1) COMBINED CITY PROJECT
Client: JMB CONSTRUCTION Location: SAN FRANCISCO TCP: 084
CMC Job #: 2530 REV: 1

Comments:
1) WORK HOURS: SEE TRAFFIC LANE REQUIREMENTS TABLE
2) CONTRACTOR TO VERIFY EXISTING STRIPING IS ACCURATE PRIOR TO START OF WORK.
3) ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF CA MUTCD.
4) ALL TRAFFIC CONTROL DEVICES SHALL BE RETROREFLECTIVE IF SETUP DURING HOURS OF DARKNESS.
5) MAINTAIN LOCAL ACCESS TO BUSINESSES AND RESIDENTS AT ALL TIME.
6) THE CONTRACTOR SHALL NOT PREVENT OR DELAY THE OPERATION OF MASS TRANSIT VEHICLES AT ANY TIME.
7) THE CONTRACTOR SHALL PERFORM THE APPROPRIATE MEASURES TO ENSURE THE SAFETY OF BICYCLISTS ON ALL STREET ON WHICH THERE IS CONSTRUCTION.