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TRAFFIC CONTROL PLAN
PW VARIOUS LOCATIONS PAVEMENT RENOVATION NO. 54 AND SEWER REPLACEMENT
BASE REPAIR AND GRINDING & PAVING WORK PLAN - BRYANT ST FROM BEALE ST TO MAIN ST

Traffic Lane Requirements
Number and Width of Lanes

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
DURING GRINDING AND PAVING CONSTRUCTION					
Bryant St. between Beale Street and The Embarcadero **	9AM – 3PM (M – F) 8AM – 6PM (S/S) At Other Times	- - -	- - -	1@11' 1@11' Full Roadway	1@11' 1@11' Full Roadway
The Embarcadero	At All Times	Full Roadway	Full Roadway	-	-
Bryant St. and Frontage Road at Beale Street Intersection **	8AM – 6PM (S/S) At Other Times	-	-	1@11' ↕ Full Roadway	1@11' ↕ Full Roadway
Beale St. north of Bryant **	8AM -6PM (S/S) At Other Times	1@12' Full Roadway	1@12' Full Roadway	-	-
Beale St. south of Bryant St.**	8AM – 6PM (S/S) At Other Times	1@10' ↕ Full Roadway	1@10' ↕ Full Roadway		
Main St.	9AM – 3PM (M – F) 8AM – 6PM (S/S) At Other Times	1@12' 1@12' Full Roadway	1@12' 1@12' Full Roadway	- - -	- - -
DURING CONCRETE BASE CONSTRUCTION					
Bryant St. between Beale Street and The Embarcadero **	9AM – 3PM (M – F) 8AM – 6PM (S/S) At Other Times	- - -	- - -	1@11' 1@11' Full Roadway	1@11' 1@11' Full Roadway
Bryant St. and Frontage Road at Beale Street Intersection **	8AM – 6PM (S/S) At Other Times	- -	- -	1@11' ↕ Full Roadway	1@11' ↕ Full Roadway
Beale St. north of Bryant **	8AM -6PM (S/S) At Other Times	1@12' Full Roadway	1@12' Full Roadway	- -	- -
Beale St. south of Bryant St.**	8AM – 6PM (S/S) At Other Times	1@10' ↕ Full Roadway	1@10' ↕ Full Roadway		
Main St.	9AM – 3PM (M – F) 8AM – 6PM (S/S) At Other Times	1@12' 1@12' Full Roadway	1@12' 1@12' Full Roadway	- - -	- - -

- ☐ 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

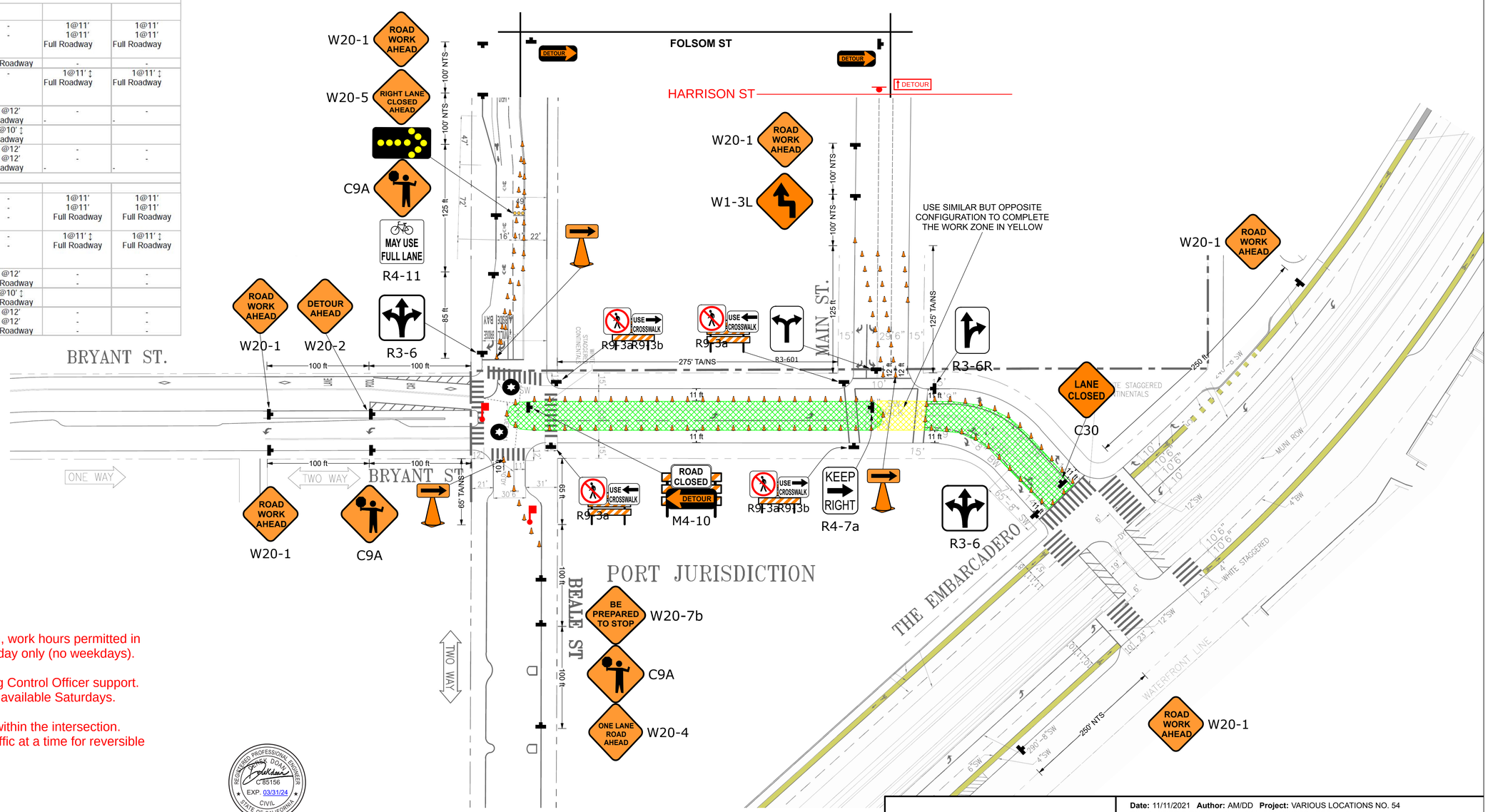
By _____ Date 08/19/2022

General reminders:

For grinding/paving work in the intersection, work hours permitted in specifications are 8AM-6PM Saturday/Sunday only (no weekdays).

At least 2 weeks notice required for Parking Control Officer support. Note that Parking Control Officers are only available Saturdays.

Flaggers are not permitted to direct traffic within the intersection. Flaggers may only hold one direction of traffic at a time for reversible lane operations.



REGISTERED PROFESSIONAL ENGINEER
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CIVIL
STATE OF CALIFORNIA

LEGEND

	Flashing Arrow Board		Bus Stop
	Flashing Arrow Board (Plan View)		Concrete K-Rail Barrier
	Portable Flashing Beacon		Water Filled Barrier
	Type I Barricade	NTS	Not To Scale
	Type III Barricade	TA/NS	Tow-Away/No Stopping
	Type III Barricade (Plan View)		Parking Control / Police Officer
	28" Traffic Cone		Flagger
	Pedestrian Barricade		Equipment
	Work Area		Pipe to be installed
	Sign and Stand		Fixed Mounted Channelizers

Plan Scale
1" = 50'

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

Road Type	Distance Between Signs** A	B	C
Urban ~~conzpeds~~ - 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 ~~high speeds~~ - 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	2,640 feet

* ~~Speed category to be determined by the highway agency.~~
** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction 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 a three-sign series 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.

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-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	80	40	27	50
25	125	63	42	50
30	180	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=WS²/60
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.

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Date: 11/11/2021 **Author:** AM/DD **Project:** VARIOUS LOCATIONS NO. 54
Client: PRECISION **Location:** SAN FRANCISCO **TCP:** 049
Job #: 3128 **Rev:** 0

Comments:
1) WORK HOURS: SEE TRAFFIC LANE REQUIREMENTS
2) CONTRACTOR TO VERIFY EXISTING STRIPING IS ACCURATE PRIOR TO START OF WORK.
3) ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE 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 PERFORM THE APPROPRIATE MEASURES TO ENSURE THE SAFETY OF BICYCLISTS ON ALL STREETS ON WHICH THERE IS CONSTRUCTION.
7) THE CONTRACTOR SHALL NOT PREVENT OR DELAY THE OPERATION OF MASS TRANSIT VEHICLES AT ANY TIME.
8) BASE REPAIR AND GRINDING AND/OR PAVING WORK WILL BE ALLOWED UP TO 2 CONSECUTIVE BLOCKS AND 2 CONSECUTIVE INTERSECTIONS.
9) FOR LOCATIONS NOT ADDRESSED IN THE TABLE, CROSS STREETS MAY BE CLOSED FOR UP TO 10 MINS FOR RESIDENTIAL AREAS AND 5 MINS FOR COMMERCIAL AREAS.