## SFMTA - TASC SUMMARY SHEET

**Public Hearing Consent** 

Public Hearing Regular

Informational / Other

PH - Regular

No objections:\_\_\_\_\_

Item Held:

Other:

PreStaff\_Date: 4/8/2021 Requested by: SFMTA

Handled: Edward Tang for CL

Section Head : CL BT

Location: California Street at Hyde Street

Subject: No Turn on Red

### **PROPOSAL / REQUEST:**

ESTABLISH - NO TURN ON RED

California Street, westbound, approaching Hyde Street (Supervisor District 3)

This proposal would prohibit westbound right turns on red from California Street onto Hyde Street in support of a proposed preempt project for the California Cable Car pull-in.

Edward Tang, edward.tang@sfmta.com

### **BACKGROUND INFORMATION / COMMENTS**

The California and Hyde Pull-In Traffic Signal Preemption Project would provide traffic signal preemption for California Line cable cars that pull-in to the Cable Car Barn. The current procedure requires a WB cable car on California Street to make a right turn from Lane #1 (left lane) onto Hyde Street while negotiating with vehicles in Lane #2 (right lane) and pedestrians crossing the north side crosswalk. During routine pull-ins (approximately 7 during the PM peak), Cable Car Track Maintenance temporarily blocks vehicle traffic one block upstream at California and Leavenworth so that the cable car can more safely perform this maneuver. The cable car may also perform unscheduled pull-ins throughout the day due to service or maintenance issues.

The proposed project would add two 2-section transit signals at the northwest and northeast corners and a dedicated preemption phase for the WBRT cable car that would hold conflicting vehicle and pedestrian movements red. The preemption sequence would start when a magnet detects that a lever has been pulled to raise the cable as the cable car prepares for the pull-in maneuver. The cable car's existing WB through preempt would also follow this 2-section transit signal during normal revenue operations. A 3-section transit signal was considered for the right diverge movement; however, there is insufficient conduit capacity. There would be no significant change to EB through, WB through, or SBRT cable car movements.

This proposed no turn on red would clarify the right-of-way for cable cars when the preemption phase is activated because cable cars must turn right from Lane #1 (left lane).

HEARING NOTIFICATION AND PROCESSING NOTES:	NVIRONMENTAL CLEARANCE BY:
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California and Hyde			TION:	Add	Dwell	Exter	nd for I	PE1.								
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### PAGE 2: BASE TIMING, ACTUATION, COORDINATION SETTINGS



### Special Comments

startup all-red = 6 seconds

				Page 3	of 4						
California and	Hyde			PE 1 -	WB Cal	ole Car	(Service	Priority	/Level 2	)	C.
MOVEMENTS:	WB Cable	Car on C	California					•			
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Track Clearance	2 (if applicable)										
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	ase ped walk		X		X		Х		X		
	se ped clear				<u> </u>						
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	Dwell	V					V				
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California and	Hyde			PE 2 -	EB Cabl	e Car (S	Service	Priority	Level 1)		_ ດູ
MOVEMENTS:	EB Cable C	ar on C	alifornia								
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	Phasenext	Yes									
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313	75.0	29	4.0	21.5		4.0	1.5	4.0	10.5		4.0	1.5						
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																		30

## PAGE 2: BASE TIMING, ACTUATION, COORDINATION SETTINGS



### Special Comments

startup all-red = 6 seconds

SECTION 4: I	PREEMPTION	Page 3 of 5					1/0/1900	0
California and	Hvde (DRAFT)	PE 1 - EB Ca	ble Car (Se	ervice Pri	iority L	evel 1)		
MOVEMENTS: DESCRIPTION:	EB Cable Car on Calif The preempt call is ma located approximately abort WALK, time out After an EB cable car line at Hyde St., or up Hyde St. (phase 4). A preempts according to	fornia St. (Phase 2) ade when an EB cable 298-feet west of Hyd FRH, yellow, and all-r passes over exit switc to a maximum of 90 s bort PE 1 (EB) if any c	e car on Cali e west prope ed normally h, located 2 econds, tim	fornia St. a erty line. W , then dwe .5-feet eas e out yello	activate /hen a ell in ph st of the w, all-r	es entry call is re ases 2 a e east pi red, and	eceived, and 6. roperty exit to	California and Hyde (DRAFT)
Zero pha Zero p Track Track Dwe Preemption M	2 (if applicable) alk to Green se ped walk se ped clear Dwell Exit Phase Exit Phase Exit Mode Normal V = vehicles only; VP Clearance 1 Clearance 2 ell (min time) 10 Dwell Extend	2     3     4           X     X       X     X       V        V        v        v	5	6  X X V strians only	7 ; T = tra	8P  X X X	13T 	
Change Outputs:	e Phasenext Yes	St. Exit switch is locate			eet			Change 30

			Page 4	of 5					1/0/190	0
California and	Hyde (DRAFT)		PE 2 - '	WB Cab	ole Car (	Service	Priority	Level 2	2)	Ca
MOVEMENTS:	WB Cable Car on	California	St. (Pha	se 13T)						aliforni
DESCRIPTION:	The preempt call is located in middle of approximately at the WALK, time out FF a WB cable car pa Hyde St., or up to a seconds, then time not serve PE 1 (EE (WBRT) call is reco	f California ne west pro RH, yellow sses over a maximur out yellow 3) calls rec	a/Leaver operty lin , all-red exit swit m of 90 s v, all-red eived du	worth in e at Lea normally ch, locate econds, , and exit iring PE	ersection venworth then dw ed 74-fee PE 2 (W to Hyde 2 (WB) c	n. Backu St. Whe rell in pha et east of 'B) will dr St. (pha alls. Abc	p entry s en a call i ases 1, 6 <sup>t</sup> the east well exte se 4). Di	witch is lo is receive , and 131 property nd for 15 sregard a	ocated ed, abort r. After / line at	California and Hyde (DRAFT)
	Phase 1	2	3	4	5	6	7	8P	13T	
Track Clearance										
Track Clearance 2 Phase Early Wa		 X		 X		 X		 X		
	se ped walk	X		X		X		X		
	se ped clear									
Zero	ohase green									
	Dwell V Exit Phase			Х		V		X	Т	
	Exit Mode Norma V = vehicles only;		es and pe		; P = ped	estrians o	nly; T = tr		J	
Track Dwe C Preemption M Ch	Clearance 1 Clearance 2 ell (min time) 3 Dwell Extend 15 lax Override eckout Limit 90 e Phasenext Yes									
Outputs										
Detectors	1st entry switch is l intersection, appro is located at the we feet east of Hyde S of the east propert	ximately 4 est propert St. Exit swi	50-feet e y line at tch is loo	east of Hy Leavenw	yde St. 2 vorth, app	nd entry proximate	switch ely 415-			Change
Notes										30

			Page 5	of 5					1/0/190	0
California and	Hyde (DRAFT)		PE 3 - '	WBRT (	Cable C	ar (Serv	vice Pric	ority Leve	el 3)	C <sup>3</sup>
MOVEMENTS:	WBRT Cable Car	on Califor	nia St. (F	hase 13	T)					alifo 
DESCRIPTION:	The preempt call i approximately 79- serve the track cle solid RH. After the property line of Hy extend for 50 seco	feet east c earance sta e cable car /de St, or u	of east pr ate for ph passes up to a m	operty lin lases 1 8 over exit aximum	e of Hyd 6 and d switch, lo of 90 seo	e St. Wł well in pl ocated 74 conds, P	nen a cal hase 13T 4-feet ea E 3 (WB	l is receiv while pe st of the RT) will c	/ed, eds show east dwell	California and Hyde (DRAFT)
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	ise ped clear									
Zero	phase green Dwell								т	
	Exit Phase			Х				Х		
	Exit Mode Norm V = vehicles only;		les and pe	edestrians	; P = ped	estrians o	only; T = ti	ransit only		
Track Dwo I Preemption M Ch	Clearance 1 10 Clearance 2 ell (min time) 4 Dwell Extend 50 Max Override neckout Limit 90 ge Phasenext Yes									
Outputs	:									
	E Lever is located a Hyde St and is ac switch is located a Hyde St.	tivated only	y when a	n operate	or lifts the	e lever. E	Exit			Change
Notes	::									30

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			POLE /	AND EQU	IPMENT	SCHE	DU
POLE	TYPE OF POLE			VEHICLE SIGNAL			
No.		No.	TYPE	MOUNTING	VISORS	LOUVERS	No
1	SL						69 88
2	MUNI	22	358"	SV-1-T	FC		
3	SL	21	358"	SV-1-T	FC		89
4	1 – A (10')	42	358"	TV-1	FC		28
5	SL	41 62	3S12" 4S12"GLA	SV-2-TA	T		29 48
6	SL	61	4S12"GLA	SV-1-T	Т		
7	1 – A (7')						49 68
A	UTILITY						

NOTE: cabinet foundation type: m

2 12/9/14 SRC #2012-290 ADDED WBLT	BWoo TEoll	REFERENCE INFORMATION & FILE NO. OF SURVEYS	SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY	DRAWN: DATE:	. CXL 07/09/99	SCALE: 1" = 40'	
1     06/95     SIGNAL MODIFICATION CT22.       NO.     DATE     DESCRIPTION       TABLE OF REVISIONS       CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION	CXL BWoo BY APP	-	THE COUNTY OF SAN FRANCISCO	CHECKED: DATE:		SHEET OF SHEETS	



				Mount at height as Pole 6.			
			POLE A	AND EQU	IPMENT	SCHE	DU
POLE	TYPE OF POLE			VEHICLE SIGNAL	/		
No.		No.	TYPE	MOUNTING	VISORS	LOUVERS	No
1	SL			Ve			69 88
2	MUNI	22 <b>135</b>	358" 2 <b>S12"LB</b>	SV-1-T	FC <b>T</b>		
3	SL	21	358"	SV-1-T	FC		89
4	1 – A (10')	42	358"	TV-1	FC		28
5	SL	41 62	3S12" 4S12"GLA	SV-2-TA	Ť		29 48
6	SL	61 <b>131</b>	4S12"GLA 2S12"LB	SV-1-T SV-1-T	T T		
7	1 – A (7')						49 68
A	UTILITY						



NOTE: CABINET FOUNDATION TYPE: M

3 XX	/XX/X	SRC #2021-### ADD MUNI LB SIGNALS TO POLES 2 AND 6	ECT C	REFERENCE INFORMATION & FILE NO. OF SURVEYS	SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY CITY AND COUNTY OF SAN FRANCISCO	SCALE: 1" = 40'	
	2/9/14 6/95 DATE	SRC #2012-290 ADDED WBLT SIGNAL MODIFICATION CT22. DESCRIPTION	BWoo TF CXL BW BY AF	iks po P.	CHECKED: DATE:	SHEET OF SHEETS	
	CHE	TABLE OF REVISIONS CK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION			7178.038		



# **AM Traffic Counts**



# AM Traffic Counts

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7:00 AM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	2	7	0
7:15 AM	0	0	5	0	0	0	1	0	0	0	0	0	0	0	1	1	8	0
7:30 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	4	0
7:45 AM	0	0	2	0	0	1	2	0	0	0	0	0	0	0	1	0	6	25
8:00 AM	0	0	1	1	0	0	2	0	0	0	0	0	0	0	3	0	7	25
8:15 AM	0	0	2	0	0	0	1	0	0	0	0	0	0	0	3	0	6	23
8:30 AM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	3	0	6	25
8:45 AM	0	1	1	0	0	1	2	0	0	0	0	0	0	0	1	0	6	25
Count Total	0	1	15	1	0	2	13	0	0	0	0	0	0	0	14	4	50	0
Peak Hour							7 RNIA	0 ST	0	0 HYD	0 E ST	0	0	0 HYD	10 E ST	0	25	0
Peak Hour	Count	Sum	marie RNIA S	es - Bi	ikes	ALIFO	RNIA	ST		HYD	EST	0	0	HYD	E ST	0	25 15-min	0 Rolling
Peak Hour 「wo-Hour(	Count	Sum ALIFO	marie RNIA S	es - Bi st	ikes C	ALIFO West	RNIA pound	ST		HYD North	E ST bound			HYD	E ST bound	_		Rolling
Peak Hour Wo-Hour ( Interval Start	Count C	Sum ALIFO Eastb	marie RNIA S oound H	es - Bi st RT	ikes C	<b>ALIFO</b> Westl	RNIA bound	ST RT	LT	HYD North T	E ST bound	RT	LT	HYD South T	E ST bound	RT	15-min Total	Rolling One Hou
Peak Hour Wo-Hour ( Interval Start 7:00 AM	Count C. LT	Sum ALIFO Eastb T	marie RNIA S oound H	es - Bi st RT 1	ikes C	ALIFO Westl T	RNIA bound H	ST RT 0	LT	HYD North T	E ST bound H	RT 0	LT	HYD South T	E ST bound H	RT 0	15-min Total 3	Rolling One Hou
Peak Hour Wo-Hour C Interval Start 7:00 AM 7:15 AM	Count C. LT 0 0	Sum ALIFO Eastb T (	marie RNIA S bound H	es - Bi st RT 1 0	ikes <u>C</u> LT 0 0	ALIFO Westl T (	RNIA bound H )	<b>ST</b> RT 0 0	LT 0 0	HYD North T (	E ST bound H D	RT 0 0	LT 0 0	HYD South T	DE ST Ibound TH 2 0	RT 0 0	15-min Total 3 0	Rolling One Hou 0 0
Peak Hour Wo-Hour C Interval Start 7:00 AM 7:15 AM 7:30 AM	Count C LT 0 0 0	Sum ALIFO Eastb T ( (	marie RNIA S bound H	<b>PS - B</b> i T RT 1 0 0	ikes <u> </u>	ALIFO Westt T ( (	RNIA pound H ) )	<b>ST</b> 0 0 0	LT 0 0 0	HYD North T ( (	E ST bound H 0 0	RT 0 0 0	LT 0 0 0	HYD South T	E ST bound H 2 0 1	RT 0 0 0	15-min Total 3 0 3	Rolling One Hou 0 0 0
Peak Hour Wo-Hour ( Interval Start 7:00 AM 7:15 AM 7:30 AM 7:45 AM	Count C. LT 0 0 0 0	Sum ALIFO Eastb T ( ( 2	marie RNIA S bound H ) ) 2 2	es - Bi F RT 1 0 0 1	<b>kes</b> <u>C</u> LT 0 0 0 0	ALIFO Westl T ( (	RNIA pound H ) ) )	<b>ST</b> 0 0 0 0	LT 0 0 0 0	HYD North T ( (	E ST bound H 0 0 0	RT 0 0 0 0	LT 0 0 0 0	HYD South T	<b>E ST</b> bound H 2 0 1 0	RT 0 0 0 0	15-min Total 3 0 3 4	Rolling One Hou 0 0 0 10
Peak Hour Two-Hour C Interval Start 7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM	Count C. LT 0 0 0 0 0 0	Sum ALIFOI Eastb T ( ( 2 2 2	marie RNIA S bound H ) ) 2 2	es - Bi FT 1 0 1 1 1	ikes <u> </u>	ALIFO Westt T ( (	RNIA pound H D D D 1	<b>ST</b> 0 0 0 0 0 0	LT 0 0 0 0 0 0	HYD North T ( ( (	E ST bound H D D D D D D	RT 0 0 0 0 0 0	LT 0 0 0 0 0	HYD South T	DE ST bound TH 2 0 1 0 1	RT 0 0 0 0 0 0	15-min Total 3 0 3 4 3	<b>Rolling</b> <b>One Hou</b> 0 0 0 10 10
Peak Hour Two-Hour C Interval Start 7:00 AM 7:15 AM 7:30 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM	Count C. LT 0 0 0 0 0 0 0	Sum ALIFOI Eastb T ( ( ( 2 2 2 1	marie RNIA S pound H 2 2 2	<b>RT</b> 0 1 1 1 0 1 <b>1</b> <b>0</b>	ikes C LT 0 0 0 0 1	ALIFO Westt T ( ( (	RNIA bound H ) ) ) 1	<b>ST</b> 0 0 0 0 0 0 <b>0</b> 0	LT 0 0 0 0 0 0 0 0	HYD North T ( ( ( (	E ST bound H D D D D D D D	RT 0 0 0 0 0 0 0	LT 0 0 0 0 0 0	HYD South T	DE ST bound TH 2 0 1 0 1 1 0 1	RT 0 0 0 0 0 0 0	15-min Total 3 0 3 4 3 4 3 2	<b>Rolling</b> <b>One Hou</b> 0 0 0 10 10 12
Peak Hour           Two-Hour (           Interval Start           7:00 AM           7:15 AM           7:30 AM           7:45 AM           8:00 AM           8:15 AM           8:30 AM	Count C LT 0 0 0 0 0 0 0 0 0 0 0	Sum ALIFOI Eastb T () () () () () () ()	marie RNIA S bound H D D D	<b>RT</b> 1 0 1 1 0 1 1 0 1 1 0 1	kes <u>L</u> T 0 0 0 0 1 0	ALIFO Westt T ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	RNIA pound H D D D D D	ST RT 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0	HYD Northi T ( ( ( ( (	E ST bound H D D D D D D D D D D D	RT 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0	HYD South T	DE ST bound TH 2 0 1 1 0 1 1 2	RT 0 0 0 0 0 0 0 0 0	15-min Total 3 0 3 4 3 2 3	<b>Rolling</b> <b>One Hou</b> 0 0 0 10 10 12 12
Peak Hour           Fwo-Hour C           Interval Start           7:00 AM           7:15 AM           7:30 AM           7:45 AM           8:00 AM           8:15 AM           8:30 AM           8:45 AM	Count C LT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sum ALIFOI Eastb T ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	marie RNIA S bound H D D D D D	es - Bi T RT 1 0 0 1 1 0 1 0 1 0	ikes <u>L</u> T 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	ALIFO Westt T ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	RNIA pound H D D D D D D D D D	ST RT 0 0 0 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0 0	HYD North T ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	E ST bound H 0 0 0 0 0 0 0 0 0 0 0 0	RT 0 0 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0	HYD South T	E ST bound H 2 0 1 1 0 1 1 2 2 1	RT 0 0 0 0 0 0 0 0 0 0 0	15-min Total 3 0 3 4 3 2 3 2 3 2	<b>Rolling</b> <b>One Hou</b> 0 0 0 10 10 12 12 12 10
Peak Hour Two-Hour C Interval Start 7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM	Count C LT 0 0 0 0 0 0 0 0 0 0 0	Sum ALIFOI Eastb T () () () () () () ()	marie RNIA S bound H D D D D D D D D	<b>RT</b> 1 0 1 1 0 1 1 0 1 1 0 1	kes <u>L</u> T 0 0 0 0 1 0	ALIFO Westt T ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	<b>RNIA</b> boound H ) ) ) ) ) <b>)</b> <b>)</b> <b>)</b> <b>)</b> <b>)</b> <b>)</b> <b>)</b> <b></b>	ST RT 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0	HYD North T ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	E ST bound H D D D D D D D D D D D	RT 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0	HYD South T	DE ST bound TH 2 0 1 1 0 1 1 2	RT 0 0 0 0 0 0 0 0 0	15-min Total 3 0 3 4 3 2 3	<b>Rolling</b> <b>One Hou</b> 0 0 0 10 10 12 12 12

# **PM Traffic Counts**

	HYDE ST CALIFORNIA ST Date: 04/11/2017																		
		≪ N	1		<u>Pe</u>	eak H	<u>our</u>					С		Perio	d: 4	1:00 P	M to	6:00 P 6:00 P	
-70	Peak Hour: 5:00 PM to 6:00 PM 545 760 266 CALIFORNIA ST 760 266 CALIFORNIA ST 760 760 760 760 760 760 760 760 760 760 760 760 760 760 760 760 760 7728 7728 7728 7728 7728 7728 778 788																		
Interva		С	ALIFO	RNIA S	т	C	ALIFO	RNIA S bound	T			DE ST hbound				DE ST		15-min	Rolling
Start		UT	Lasu	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	Total	One Hour
4:00 P	РМ	0	3	102	62	0	39	101	15	0	0	0	0	0	2	110	2	436	0
4:15 P		0	6	67	53	0	38	87	16	0	0	0	0	0	5	107	10	389	0
4:30 P		0	3	51	70	0	35	104	18	0	0	0	0	0	5	119	2	407	0
4:45 P 5:00 P		0 0	10 6	92 107	70 <b>70</b>	0	35 <b>31</b>	132 109	16 <b>12</b>	0	0	0	0	0	5 1	123 117	5 5	488 <b>458</b>	1,720 1,742
5:15 P		0	9	111	66	o	30	147	18	0	0	0	0	o	3	120	6		1,863
5:30 P		0	5	121	72	0	38	127	25	0	0	0	0	0	4	119	3	514	1,970
5:45 P	PM	1	7	127	58	0	34	145	12	0	0	0	0	0	4	125	2	515	1,997
Count To	otal	1	49	778	521	0	280	952	132	0	0	0	0	0	29	940	35	3,717	0
Peak	All	1	27	466	266	0	133	528	67	0	0	0	0	0	12	481	16	1,997	0
Hour	HV	0	0	4	6	0	0	4	1	0	0	0	0	0	0	7	0	22	0
	IV%	0%	0%	1%	2%	-	0%	1%	1%	-	-	-	-	-	0%	1%	0%	1%	0
Note: Two	o-nour	count	summa	ary volu	imes ir	iciude l	ieavy v	enicies	out ex	ciude l	ucycie	s in ove	rali cou	<i>iiit.</i>					
Interva				ivy Veh							ycles							ossing Le	•,
Start		EB	WB		IB	SB	Total	EB	WB		NB	SB	Total	Eas		West	Nort		
4:00 P		3	1		0	1	5	0	1		0	0	1	30		60 65	25		
4:15 P 4:30 P		2 5	2 2		0 0	0 3	4 10	0 0	1 0		0 0	0 0	1 0	31 27		65 73	34 26		
								0	2		0	0	2	27		73 39	20 29		
	4:45 PM         1         1         0         2         4           5:00 PM         1         2         0         2         5								0		0	0	0	24		<b>60</b>	23 9	43 64	
	5:00 PM 1 2 0 2 5 5:15 PM 4 1 0 1 6								0		0	0	3	30		40	20		
5:30 P		3	2		0	3	8	3 1	0		0	0	1	38		101	39		
	5:45 PM         2         0         0         1           Count Total         21         11         0         13						3	3	2		0	1	6	46		65	35	71	217
Count To	ount Total 21 11 0						45	7	6		0	1	14	254		503	217		,
Peak Ho	our	10	5		0	7	22	7	2		0	1	10	142		266	103	3 247	7 758

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In the more l	CA	LIFO	RNIA S	т	C	ALIFO	RNIA	ST		HYD	E ST			HYD	E ST		45	Delline
Interval Start		Eastb	ound			West	bound			North	bound			South	bound		15-min Total	Rolling One Hour
Start	UT	LT	ΤН	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	ΤН	RT	Total	one nou
4:00 PM	0	0	1	2	0	0	1	0	0	0	0	0	0	0	1	0	5	0
4:15 PM	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	4	0
4:30 PM	0	0	2	3	0	0	2	0	0	0	0	0	0	0	3	0	10	0
4:45 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	4	23
5:00 PM	0	0	1	0	0	0	1	1	0	0	0	0	0	0	2	0	5	23
5:15 PM	0	0	1	3	0	0	1	0	0	0	0	0	0	0	1	0	6	25
5:30 PM	0	0	1	2	0	0	2	0	0	0	0	0	0	0	3	0	8	23
5:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	3	22
Count Total	0	0	9	12	0	0	10	1	0	0	0	0	0	0	13	0	45	0
Peak Hour wo-Hour (				-				1 8T	0	0	0 EST	0	0	0	7 E ST	0	22	0
	Count	Sumi	marie RNIA S	s - Bi	kes	ALIFO	RNIA		0	HYD	EST	0	0	HYD	EST	0	22 15-min	0 Rolling
wo-Hour (	Count S	Sumi LIFOF	marie RNIA S ound	s - Bi T	kes C	ALIFO Westt	RNIA S	ST		HYD North	E ST bound	_		HYD	E ST bound			Rolling
<b>WO-HOUR (</b> Interval Start	Count S	Sumi LIFOI Eastb	marie RNIA S ound H	s - Bi T RT	kes C.	ALIFO Westt	RNIA S bound H	ST RT	LT	HYD North T	E ST bound	RT	LT	HYD South T	E ST bound	RT	15-min Total	Rolling One Hou
<b>Interval</b> Start 4:00 PM	Count S CA LT 0	Sumi LIFOI Eastb TI	marie RNIA S ound H	s - Bi T RT 0	<b>kes</b> <u>C</u> LT	ALIFO Westt	RNIA S bound H	ST RT 0	LT	HYD North T	E ST bound H	RT 0	LT 0	HYD South T	E ST bound H	RT 0	15-min Total	Rolling One Hou
<b>Interval</b> Start 4:00 PM 4:15 PM	Count S CA LT 0 0	Sumi LIFOI Eastb TI C	marie RNIA S ound H	<b>s - Bi</b> T RT 0 0	<b>kes</b> <u> LT</u> 0	ALIFO Westt T	RNIA S bound H D	<b>ST</b> RT 0 0	LT 0 0	HYD North T	E ST bound H D	RT 0 0	LT 0 0	HYD South T	E ST bound H D	RT 0 0	• 15-min Total 1 1	Rolling One Hou 0 0
Two-Hour ( Interval Start 4:00 PM 4:15 PM 4:30 PM	Count : CA LT 0 0 0	Sumi LIFOI Eastb TI C C C	marie RNIA S ound H	<b>s - Bi</b> <b>T</b> RT 0 0 0	kes <u>C</u> 1 0 0	ALIFO Westt T ( 1	RNIA S bound H D 1	<b>ST</b> RT 0 0 0	LT 0 0 0	HYD North T	E ST bound H 0 0	RT 0 0 0	LT 0 0 0	HYD South T	E ST bound H D D	RT 0 0 0	• <b>15-min</b> <b>Total</b> 1 1 0	Rolling One Hou 0 0 0
<b>Interval</b> Start 4:00 PM 4:15 PM 4:30 PM 4:45 PM	CA CA LT 0 0 0 0	Sumi LIFOI Eastb TI C C C C C C	marie RNIA S ound H ) )	<b>s - Bi</b> <b>T</b> RT 0 0 0 0	kes <u>C</u> 1 0 0	ALIFO Westt T ( 1 ( 2	RNIA S bound H D 1 D 2	<b>ST</b> 0 0 0 0	LT 0 0 0 0	HYD North T	E ST bound H 0 0 0	RT 0 0 0 0	LT 0 0 0 0	HYD South T	<b>E ST</b> bound H 0 0 0	RT 0 0 0 0	15-min Total	Rolling One Hou 0 0 0 4
Interval Start           4:00 PM           4:15 PM           4:30 PM           4:45 PM           5:00 PM	CA CA LT 0 0 0 0 0 0	Sumi LIFOF Eastb TI C C C C C C C C C C C C C C C C C C	marie RNIA S ound H	s - Bi T RT 0 0 0 0 0 0	kes <u>C</u> , 1 0 0 0	ALIFO Westt T ( 1 ( 2 (	RNIA S bound H D 1 2 2 0	ST 0 0 0 0 0 0	LT 0 0 0 0 0	HYD North T	E ST bound H D D D D D D	RT 0 0 0 0 0 0	LT 0 0 0 0 0	HYD South T	<b>E ST</b> bound H D D D D D D	RT 0 0 0 0 0	15-min Total 1 1 0 2 0	Rolling One Hou 0 0 0 4 3
Interval Start           4:00 PM           4:15 PM           4:30 PM           4:45 PM           5:00 PM           5:15 PM	CA CA LT 0 0 0 0 0 0 1	Sumi LIFOR Eastb TI C C C C C C C C C C C C C C C C C C	marie RNIA S ound H	s - Bi T RT 0 0 0 0 0 0 0 2	kes C. LT 1 0 0 0 0 0 0	ALIFO Westt T ( 2 ( ( (	RNIA S bound H D 1 2 2 0	<b>ST</b> 0 0 0 0 0 <b>0</b> <b>0</b> <b>0</b>	LT 0 0 0 0 0 0	HYD North T	E ST bound H D D D D D D D D	RT 0 0 0 0 0 0 0	LT 0 0 0 0 0 0	HYD South T	E ST bound H D D D D D D D D	RT 0 0 0 0 0 0 0 0	15-min Total 1 1 0 2 0 3	<b>Rolling</b> <b>One Hou</b> 0 0 0 4 3 5
Interval           Start           4:00 PM           4:15 PM           4:30 PM           4:45 PM           5:00 PM           5:15 PM           5:30 PM	CA CA LT 0 0 0 0 0 0 1 0	Sumi LIFOF Eastb TT C C C C C C C C C C C C C C C C C C	marie RNIA S ound H	s - Bi T 0 0 0 0 0 2 0	kes C LT 1 0 0 0 0 0 0 0 0	ALIFO Westt T ( 2 ( 0 ( 0 ( 0 ( 0 ( 0)	<b>RNIA</b> ( bound) H D 1 D 2 D D D D	ST RT 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0	HYD North T	E ST bound H D D D D D D D D D D D D	RT 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0	HYD South T	E ST bound H D D D D D D D D D D D D	RT 0 0 0 0 0 0 0 0 0	15-min Total 1 1 0 2 0 3 1	<b>Rolling</b> <b>One Hou</b> 0 0 0 4 3 5 6
Interval Start           4:00 PM           4:15 PM           4:30 PM           4:45 PM           5:00 PM           5:15 PM           5:30 PM           5:45 PM	CA CA LT 0 0 0 0 0 1 0 0 0 0	Sumi LIFOF Eastb TI C C C C C C C C C C C C C C C C C C	marie RNIA S ound H ) ) )	s - Bi T RT 0 0 0 0 0 2 0 1	kes <u>L</u> T 1 0 0 0 0 0 0 0 0 0 0 0 0 0	ALIFO Westt T ( 1 ( 2 ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	<b>RNIA</b> 3 pound H D 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ST RT 0 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0 0	HYD North T	E ST bound H D D D D D D D D	RT 0 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0 0	HYD South T	E ST bound H 0 0 0 0 0 0 0 0 0 0 0 0 1	RT 0 0 0 0 0 0 0 0 0 0	15-min Total 1 1 0 2 0 3 1 6	Rolling One Hou 0 0 4 3 5 6 10
Interval           Start           4:00 PM           4:15 PM           4:30 PM           4:45 PM           5:00 PM           5:15 PM           5:30 PM	CA CA LT 0 0 0 0 0 0 1 0	Sumi LIFOF Eastb TT C C C C C C C C C C C C C C C C C C	marie RNIA S ound H ) ) )	s - Bi T 0 0 0 0 0 2 0	kes C LT 1 0 0 0 0 0 0 0 0	ALIFO Westt T ( 2 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0 ( 0	<b>RNIA</b> ( bound) H D 1 D 2 D D D D	ST RT 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0 0	HYD North T	E ST bound H D D D D D D D D D D D D	RT 0 0 0 0 0 0 0 0 0 0	LT 0 0 0 0 0 0 0 0	HYD South T	E ST bound H D D D D D D D D D D D D	RT 0 0 0 0 0 0 0 0 0	15-min Total 1 1 0 2 0 3 1	<b>Rolling</b> <b>One Hou</b> 0 0 0 4 3 5 6

## TransBASE Internal Dashboard

# **Collision History**

Geographic Extent: 25252000: HYDE ST at CALIFORNIA ST Spatial Intersect: SFMTA Intersection Related (<=20ft or <=150ft if Rear End) Data Range: 10/01/2015 to 09/30/2020 Pull Date: 3/9/2021

### Collision/Party/Victim Table Showing 1 to 9 of 9 entries

### Count of Fatal Collisions: 0 Count of Non-Fatal Injury Collisions: 9 Total Count of Fatal/Non-Fatal Injury Collisions: 9

Case ID	Collision Date	Collision Time	Day of Week	Primary Road	Secondary Road	Distance	Direction	Party 1 Type	Party 1 Direction of Travel	Party 1 Movement Preceeding Crash	Party 2 Type	Party 2 Direction of Travel	Party 2 Movement Preceeding Crash	Vehicle Code Violation	Highest Degree of Injury	Type of Collision	Motor Vehicle Involved With	Weather	Lighting
200356687	06/13/2020	18:20	Saturday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	West	Making Left Turn	Driver	West	Proceeding Straight	CVC 22100(b)	Injury (Complaint of Pain)	Broadside	Other Motor Vehicle	Clear	Daylight
180744637	10/01/2018	20:00	Monday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	West	Proceeding Straight	Pedestrian	Not Stated	Proceeding Straight	CVC 2818	Injury (Complaint of Pain)	Vehicle/ Pedestrian	Pedestrian	Clear	Dark - Street Lights
170961562	11/26/2017	08:50	Sunday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	East	Making Left Turn	Pedestrian	North	Proceeding Straight	CVC 21950(a)	Injury (Complaint of Pain)	Vehicle/ Pedestrian	Pedestrian	Clear	Daylight
170824374	10/09/2017	11:54	Monday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	West	Making Left Turn	Driver	East	Proceeding Straight	CVC Unknown	Injury (Complaint of Pain)	Head-On	Other Motor Vehicle	Clear	Daylight
170703966	08/29/2017	12:15	Tuesday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	West	Making Left Turn	Pedestrian	East	Proceeding Straight	CVC 21968	Injury (Complaint of Pain)	Vehicle/ Pedestrian	Pedestrian	Clear	Daylight
170489257	06/15/2017	21:15	Thursday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	North	Making Left Turn	Driver	West	Proceeding Straight	CVC 21801(a)	Injury (Complaint of Pain)	Broadside	Other Motor Vehicle	Clear	Dark - Street Lights
160133709	02/14/2016	15:15	Sunday	CALIFORNIA ST	HYDE ST	0	Not Stated	Bicyclist	West	Not Stated	Driver	West	Not Stated	CVC Unknown	lnjury (Other Visible)	Not Stated	Not Stated	Not Stated	Not Stated
150954208	11/01/2015	11:40	Sunday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	West	Making Left Turn	Driver	East	Proceeding Straight	CVC 21801(a)	Injury (Severe)	Head-On	Other Motor Vehicle	Clear	Daylight
150933440	10/25/2015	16:40	Sunday	CALIFORNIA ST	HYDE ST	0	Not Stated	Driver	East	Proceeding Straight	Driver	East	Proceeding Straight	CVC 22106	Injury (Complaint of Pain)	Sideswipe	Other Motor Vehicle	Clear	Daylight

### TransBASE Internal Dashboard

## **Collision History**

Geographic Extent: 25252000: HYDE ST at CALIFORNIA ST Spatial Intersect: SFMTA Intersection Related (<=20ft or <=150ft if Rear End) Data Range: 10/01/2015 to 09/30/2020 Pull Date: 3/9/2021

### Metadata Information

### **Collision Filters**

Database Source: TransBASESF.org Database Pull Date: 3/9/2021 Collision Level: Injury Collisions Boundary: 25252000: HYDE ST at CALIFORNIA ST Collision Dates: 10/01/2015 to 09/30/2020 Collision Distance: Any Distance Collision Severity Filter(s): No Restrictions Primary Collision Factor Filter(s): No Restrictions Collision Type Filter(s): No Restrictions Intersection/ Midblock: SFMTA Intersection Related (<=20ft or <=150ft if Rear End)

### Party Filters

Party Involved Type: No Restrictions Party Involved Gender: No Restrictions Party Involved at Fault: No Restrictions Party Involved Age: No Restrictions Party Involved Sobriety: No Restrictions Party Involved Condition: No Restrictions Party Involved Direction of Travel: No Restrictions Party Involved Safety Equipment 1: No Restrictions Party Involved Safety Equipment 2: No Restrictions Party Involved Insurance: No Restrictions Party Involved Other Associated Factors : No Restrictions Party Involved Other Associated Factors : No Restrictions Party Involved Wovement Preceding Collision: No Restrictions Party Involved Race: No Restrictions Party Involved Race: No Restrictions Party Involved Pacie Info: No Restrictions Party Involved Special Info: No Restrictions

#### Victim Filters

Victim Involved Role: No Restrictions Victim Involved Degree of Injury: No Restrictions Victim Involved Age: No Restriction Victim Involved Seating Position: No Restrictions Victim Involved Ejected: No Restrictions

#### **Environmental Filters**

Neaest Traffic Control: No Restriction Intersecting Speed Limit: No Restriction Intersecting Network: No Restriction Intersecting Street Class: No Restriction Weather Description: No Restrictions Lighting Description: No Restrictions

## TransitSafe Collision History 12/1/2015 - 12/23/2020

	Incident	Mode					Incident	Incident	Injury	MTA Vehicle	Operator S	afety	
Intersection Corridor Date	Type Line	Updated ARB Charge	At Street Capid Collision Type	e Collision With (Operator)	Direction Divisio	in IE_DESC	Narrative	Number	Involved	Action	Narrative A	nalysis	Time
	California												
California St	Street		Left		Cable								
& Hyde St Other 12/7/	/2016 Collision Cable Car	Cable Car Unavoidable	Hyde St 759 Sideswipe	Auto/Van	outbound Car			FY17-03211	No	Going Straight	Restricted		2:09 PM
						Braking on the back did							
	California					not see what happen in							
California St	Street		Right		outbound Cable	the front no injured cc	NON-				Ν	ION-	
& Hyde St Other 1/28/	/2015 Collision Cable Car	Cable Car Unavoidable	Hyde St 2349 Sideswipe	Auto/Van	/nearside Car	call TSC came.	Preventable	FY15-04086	No	Going Straight	Restricted P	reventable	8:00 PM

Install No Right on Red sign

ON RE

ON RED

Relocate "DO NOT PASS" sign from existing northeast corner pole to new pole approximately 60' east

~60'

Install No Right on Red sign after relocating "DO NOT PASS" sign



# Proposed Signal at California and Hyde

Proposed Transit Signal at northwest corner of California and Hyde



Aspect: Red Horizontal Bar Indication: RESTRICTED Movement not permitted.

Aspect: White Vertical Bar Indication: PERMISSIVE Proceed with movement when safe to do so.





Timestamp <sup>1</sup>	Action	Image	Transit Signal Action
0:00	Conductor pulls first lever (79' east of east side crosswalk) to lift the cable. Cable Car grabs cable but does not fully grip it yet. Preempt sequence activated and starts the track clearance state – meaning WB and WBLT will be green for 10 seconds before the transit signal turns to vertical lunar bar. An additional 26s is needed for conflicting movements to time out before the transit signal will change from red horizontal bar to vertical lunar bar.		
	seconds to reach the checkout switch, 74' east from crosswalk, or 5' downhill from the lever pictured to the right. <sup>2</sup>		

<sup>&</sup>lt;sup>1</sup> Timestamps are approximate and may vary pending additional field testing with Cable Car Division.

<sup>&</sup>lt;sup>2</sup> Based on min dwell time of 1 second and checkout limit of 90 seconds on the proposed timing card.

Timestamp <sup>1</sup>	Action	Image	Transit Signal Action
0:36	Conductor pulls second lever to activate track switch for right turn onto Hyde Street. Cable car is still waiting for clear indication from conductor and presence of clear traffic before fully gripping the cable to begin proceeding down the hill and around the curve.		
0:39	Cable car fully grips cable and proceeds downhill, westbound, towards the curve.	REFORE STOP YOU WANT	
0:41	Cable car reaches exit switch, triggering the preempt sequence to dwell for an additional 50 seconds.		

Timestamp <sup>1</sup>	Action	Image	Transit Signal Action
0:49	Cable car slowly proceeds through curve while maintaining full grip on the cable. 8 seconds of dwell have elapsed.		
1:14	Cable car clears intersection and is approaching entrance switch for preempt at Hyde / Sacramento. The preempt at California / Hyde will time out independently. 33 seconds of dwell have elapsed. 17 seconds of dwell, 6 seconds of flashing vertical lunar bar, and 3 seconds of all-red remain. This additional time allows buffer as there is no exit switch to detect when the cable car has finished.		

Timestamp <sup>1</sup>	Action	Image	Transit Signal Action
1:51	Dwell has finished after 50 seconds, and transit signal begins flashing lunar bar for 6 seconds.		
1:57	Transit signal has completed flashing lunar bar and is now displaying the red horizontal bar. Preempt sequence has ended.		

