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PREPARER:

### TRANSPORTATION MANAGEMENT PLAN

PROJECT: Zayo 395 - Oversight

### 1.0 PROJECT INFORMATION

### 1.1 SCOPE OF WORK & BACKGROUND

**BACKGROUND/LOCATION/SCOPE:** This project in Sierra, Lassen, and Modoc County from the Nevada State line to the Oregon State Line on Highway 395 will install broadband along the highway to improve telecommunications between Reno, Nevada and Umatilla, Oregon.

**PERSONNEL:** Clint Burkenpas is the PM; Brandon Rather is the PE; Sergio Mendoza is the CE; the RE and the Contractor are TBD.

**SCHEDULE:** There are an estimated 273 working days (WDAYs) for this project. All working days will require traffic control. Construction is scheduled to occur between April 2023 and April 2024.

### 1.2 **EXISTING HIGHWAY FACILITY**

**ROADWAY:** State Route 395 is a 2-lane conventional highway that serves as the primary route between Lassen 395 Susanville to Nevada State Line, Lassen 395 Susanville to Alturas and Modoc 395 Alturas to the Oregon State Line. Alignment is tangent on a flat profile. One 12-ft paved lane with 1 to 10-ft paved shoulders is provided for each direction of travel. The regulatory speed limit is 55 MPH.

**STRUCTURES:** There are 30 structures within the project limits. Structure work is anticipated for this project.

Location	Structure Number	Name	Length (ft)	Width (ft)	
Las-395-R0.10	07-0072L	Evans Canyon UC	59.7	41.7	
Las-395-R0.10	07-0072R	Evans Canyon UC	66.9	41.7	
Las-395-R1.09	07-0075L	Scott UC	56.1	50.0	
Las-395-R1.09	07-0075R	Scott UC	63.0	42.3	
Las-395-R4.60	07-0076L	Route 395/70 Separation	140.1	41.0	
Las-395-R4.60	07-0076R	Route 395/70 Separation	127.0	41.0	
Las-395-15.87	07-0023	Long Valley Creek	76.8	42.3	
Las-395-R17.51	07-0068	Galeppi UC	67.9	50.0	
Las-395-R21.34	07-0052	Long Valley Creek Overflow	113.8	50.0	
Las-395-R22.97	07-0025	Doyle Overhead	180.1	50.0	
Las-395-R24.69	07-0053	Willow Ranch Creek	64.0	50.0	
Las-395-26.19	07-0057	Long Valley Creek	40.0	0.0	
Las-395-28.00	07-0056	Long Valley Creek	40.0	0.0	
Las-395-62.19	07-0030	Standish Irrigation Canal	27.9	51.5	
Las-395-R71.17	07-0080	Dill Slough	300.0	43.6	
Las-395-R71.92	07-0081	Susan River Overflow	300.0	43.6	
Las-395-72.29	07-0034	Susan River	120.1	34.4	
Las-395-R114.25	07-0074	South Termo Ditch	25.9	0.0	
Mod-395-R1.93	03-0058	Flournoy Equipment UC	15.1	0.0	
Mod-395-3.73	03-0019	South Fork Pit River	91.9	32.5	

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Mod-395-R15.06	03-0055	Juniper OH	157.2	50.0
Mod-395-R16.52	03-0052	South Fork Pit River	170	50.0
Mod-395-R19.64	03-0053	South Fork Pit River	162.1	50.0
Mod-395-R20.77	03-0054	Alturas OH	165.0	50.0
Mod-395-21.88	03-0023	North Fork Pit River	62.0	76.1
Mod-395-26.23	03-0009	North Fork Pit River	137.1	44.3
Mod-395-26.71	03-0010	Parker Creek	35.1	44.9
Mod-395-32.62	03-0013	Toms Creek	14.1	0.0
Mod-395-34.08	03-0014	Joseph Creek	19.4	44.0
Mod-395-54.46	03-0016	Willow Creek	17.1	0.0

<sup>\*</sup> Zero width is shown for non-grade-top culverts or structures not carrying vehicular traffic, such as underpasses or pedestrian overcrossings.

### TRAFFIC VOLUMES:

	2019 AADT Volumes		
Description	Co-Rte-Reference PM (Leg)	Vehicle AADT Total*	Truck % Total Vehicles
Jct. Rte. 70 West	Las-395-R4.615 (B)	10,100	6.94
Jct. Rte. 70 West	Las-395-R4.615 (A)	6,300	17.89
Garnier Road	Las-395-29.84 (A)	4,700	46.96
Jct. Rte. 36 West	Las-395-R61.094 (B)	9,100	3.26
Jct. Rte. 36 West	Las-395-R61.094 (A)	9,300	10.86
Lassen/Modoc County line	Las-395-138.979 (O)	880	27.29
Alturas, Jct. Rte. 299 West	Mod-395-22.764 (B)	6,300	4.60
Alturas, Jct. Rte. 299 West	Mod-395-22.764 (A)	5,500	3.18
Jct. Rte. 299 East	Mod-395-29.295 (B)	1,650	11.76
Jct. Rte. 299 East	Mod-395-29.295 (A)	1,200	7.83
Oregon State Line	Mod-395-91.593 (B)	760	12.11

<sup>\*</sup>Annual Average Daily Traffic (AADT) is for both directions.

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T	MS Volur	nes For Pro	ject Traffic Delay
Description	Peak VPH** ription (1 Direction		Data Source for Peak VPH TMS #; Co-Rte-Reference PM (Leg)
	WD	WE	Count Date
Jct. Rte. 70 West	406	346	TMS #198; Las-395-R4.615 (A) September 2019
Jct. Rte. 70 West	667	767	TMS #215: Las-395-R4.615 (B) August 2019
Garnier Road	327	350	TMS #289; Las-395-R29.840 (A) August 2019
Alturas, Jct. Rte. 299 West	316	241	TMS #365; Mod-395-22.764 (A) May 2019
Alturas, Jct. Rte. 299 West	360	239	TMS #364; Mod-395-22.764 (B) May 2019

<sup>\*\*</sup>Peak Vehicle Per Hour (VPH) volumes; WD = Weekday; WE=Weekend

**CENSUS LOOPS:** There are 26 existing traffic monitoring stations within the project limits that must be protected in place or replaced if damaged during construction. See TMP Attachment "A" - TMS Elements. **SSP 15-1.03A for existing loop detectors is included.** For further information contact Traffic Census, Griffin Lemoine at 530-949-7311.

ITS FIELD ELEMENTS: There are 15 existing ITS Field Elements within the project limits that must be protected in place or replaced if damaged during construction. See TMP Attachment "B" - ITS Elements. Therefore, sections 10-1.02B, "Traffic Elements", and 87-21.03B(2), "Maintaining Existing Traffic Management System Elements During Construction", of the Standard Specifications apply. Include bid item 870009 for "Maintaining Existing Traffic Management System Elements During Construction" and the ITS Field Elements Pre-Bid Cert List. For further information contact Jeremiah Pearce, Chief, Office of ITS Engineering & Support at 530-225-3320.

### 2.0 TRAFFIC IMPACTS

### 2.1 GENERAL TRAFFIC IMPACTS

**TRAFFIC CONTROL:** Construction will be conducted under Standard Plan T10 Lane and Shoulder Closures with T18 for speed reduction at Sie-395-PM 0.00 to Las-395-PM R5.217. Most operations can be conducted during typical 12-hour work shifts. Based on traffic volumes, lane and shoulder closures will be allowed anytime except after 3:00 p.m. Fridays, on weekends, and "designated holidays".

Construction will be conducted under Standard Plan T13 and T13B for reversing traffic control with T22 for speed reduction at Las-395-PM R5.217 to Mod-395-PM R20.975 and Mod-395-PM 22.930 to PM 61.560. Most operations can be conducted during typical 12-hour work shifts. Based on traffic volumes, lane closures will be allowed anytime except after 3:00 p.m. Fridays, on weekends, on "designated holidays" and on special days.

Construction will be conducted under Standard Plan T11 or T12 Lane and Shoulder Closures with T19 for speed reduction at Mod-395-PM R20.975 to PM 21.920. Most operations can be conducted during typical 12-hour work shifts. Based on traffic volumes, lane and shoulder closures will be allowed anytime except after 3:00 p.m. Fridays, on weekends, and "designated holidays".

Only one lane or shoulder closure will be allowed at any one time. Use of temporary barrier is not anticipated.

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PROJECT TRAFFIC DELAYS: Based on a 2.0-mile long lane closure, delays are expected to be 17 minutes from LAS-395-PM R5.217 to R29.39; 17 minutes from Las-395-PM R29.39 to Mod-395-39.49; 15 minutes from Mod-395-39.49 to 61.56.

CORRIDOR TRAFFIC DELAYS: This project is in 3 corridors. Lassen State Route 395 is in the Susanville to Nevada border Corridor, for which the D2 DTM has established a maximum corridor delay limit of 30 minutes. Lassen State Route 395 is in the Susanville to Alturas Corridor, for which the D2 DTM has established a maximum corridor delay limit of 30 minutes. Modoc State Route 395 is in the Alturas to Oregon border Corridor, for which the D2 DTM has established a maximum corridor delay limit of 15 minutes. There is three other projects scheduled in these corridors that would create a conflict with this project during the 2023 Constr. Yr. (known as of the date of this TMP). There is no other project scheduled in these corridors that would create a conflict with this project during the 2024 Constr. Yr. (known as of the date of this TMP).

					20	)23	3 S	CI	ΗE	DI	JL	E	0	0	NS	TRUCTION	
		LOCA	ATION		MC		5	SCI	HEI	DU	LEI	CT D tes		N IS	3		
EA	CO RTE DW/DW APR	NICKNAME	TMP COMPLETED														
2Н330	Las/ Mod	395	0.0/138.98 0.0/61.56				17	17	17	17	17	17	17	17	17	THIS PROJECT Zayo 395 Oversight	N
2J890	Las	395	0.10, 15.87, R21.34					Х	х	х	Х	х	Х			Bridge Maintenance in Las, Plu, & Teh	N
	Γotal C	orrido	r Delay	79.13			17	17	17	17	17	17	17	17	17	Susanville to Nevada border Corridor Maximum Delay 30 Minutes	
2Н330	Las/ Mod	395	0.0/138.98 0.0/61.56				17	17	17	17	17	17	17	17	17	THIS PROJECT Zayo 395 Oversight	N
3J470	Las	395	92.00/98.50					Х	Х	х	х	х	х			Secret Valley Overlay	N
4H740	Las	395	96.50					Х	Х	х	х	х	х			Secret Valley SRRA	N
	Total C	orrido	r Delay				17	17	17	17	17	17	17	17	17	Susanville to Alturas Corridor Maximum Delay 30 Minutes	
2H330	Las/ Mod	395	0.0/138.98 0.0/61.56				15	15	15	15	15	15	15	15	15	THIS PROJECT Zayo 395 Oversight	N
	Total C	orrido	r Delay				15	15	15	15	15	15	15	15	15	Alturas to Oregon border Corridor Maximum Delay 15 Minutes	

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**PUBLIC DELAY COSTS:** Delay costs are those costs borne by the traveling public when they are subject to detours and one-way traffic control, such as increased fuel usage and time lost when stopped at lane closures. The following public delay costs are calculated for this project:

Work Location Co-Rte-PM	Work Shift	Delay Cost / Work Shift*	No. of Days	Delay Cost
Las-395- R5.217/R29.38	12-hr	\$17,213.34	120	\$2,065,601.26
Las-395-R29.38/ Mod-395-20.975	12-hr	\$18,614.51	120	\$2,233,741.23
Mod-395- 22.79/61.56	12-hr	\$10,091.97	120	\$1,211,036.51
		Total Pu	ublic Delay Cost =	\$5,510,379

<sup>\*</sup>Based on \$0.25/min car, \$0.34/min bus/rv and \$0.56/min truck delay cost.

The Road User Cost (RUC) for this project is zero, unless authorization is obtained from Chief, North Region Construction, per NR Memo dated 3/3/16.

### 2.2 ADVERSE EFFECTS ON SPECIFIC TYPES OF TRAFFIC

**BICYCLES & PEDESTRIANS:** Bicyclists and pedestrians are allowed within the project limits. During operations, the work zone shoulder will be closed to public use. Bicyclists and pedestrians will use the opposing paved shoulder to travel past the work zone. No significant impacts to either user group is anticipated, since few of these users are expected to be present due to the rural location

**TRUCKS:** State Route 395 is designated as Terminal Access (STAA) for trucks. It is not anticipated that traffic control for this project will alter the requirement for STAA truck routes; therefore, no truck impacts are anticipated. Annual permits are issued for trucks 8.5-ft to 12-ft in width. Occasionally under special approval, single trip permits are issued for trucks over 12-ft in width. This project does not include the use of temporary barrier or other hard devices; no changes in roadway width available to trucks will occur. A 16-ft horizontal clearance must be provided to traffic at all locations.

**ROAD CONNECTIONS:** There are public road connections within the project and traffic control limits. During traffic control, motorists on local roads waiting to join the queue will be subject to the same 17-min delay, from Las-395-PM R5.217 to R29.39; 17-min delay, from Las-395-PM R29.39 to Mod-395-39.49; 15-min delay, from Mod-395-39.49 to 61.56, as mainline traffic. Due to the low traffic volumes on these roads, no significant impacts are expected.

**SPECIAL DAYS**: The following table shows a listing of some annual community events found that may increase traffic through the work zone:

Event	Date	Location
Hot August Nights	First Tuesday thru Sunday in August	Reno

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PREPARER:

### 3.0 MITIGATION TO TRAFFIC IMPACTS

### 3.1 TRANSPORTATION MANAGEMENT PLANS

Transportation Management Plans (TMPs) present a program of operational and demand management strategies designed to maintain acceptable levels of traffic flow during periods of construction activities. TMPs utilize traditional traffic handling techniques such as detours and stage construction, in concert with public awareness campaigns to provide congestion relief during the life of the construction project. For more information regarding TMP Deputy Directive DD-60-R2 see <a href="https://admin.onramp.dot.ca.gov/deputy-directives">https://admin.onramp.dot.ca.gov/deputy-directives</a>

### 3.2 TMP GOALS:

- Minimize traffic delays while maximizing public and worker safety during construction
- Provide instructional information regarding traffic management to the RE
- Provide project-specific traffic SSPs to be included in the project contract
- Ensure that maximum corridor delay criteria is not exceeded on the subject corridors

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### 3.3 <u>TMP ELEMENT SUMMARY</u>

The following TMP elements are **required** to mitigate the expected traffic impacts associated with this project:

SECTION	TMP ELEMENT	A.	RE	SPECS/ CONTRACTOR	COMMENTS
3.4.1	TRAFFIC ANALYSIS				Flavor Francisco (Flavor Anna 1997) - Flavor Francisco (Flavor Anna 19
	Lane Closures	х	х	х	Max length = 2.0 miles Max stop time = 14 minutes; Max delay time = 17 minutes No more than one lane closure at any one time
	Lane Closure Charts	X	X	X	Required
	Special Days	X	X	X	Required
	Lane Closure Schedule	1	X	X	Required
	Coordination	х	х	х	2J980 (Bridge Maintenance) 3J740 (Secret Valley Overlay) 4H740 (Secret Valley SRRA)
3.4.2	PUBLIC AWARENESS				
	Public Information Campaign	X	Х		\$20,000 Include \$30,000 in estimate under
	Worker Safety Media Campaign	Х	1		\$10,000 Dept-Furnished Item # 066063
	CHIN		X		
	RIB		Х		
3.4.3	TRAFFIC CONTROL SYSTEM	1S			
	Traffic Control Plans	x	x	х	<ul> <li>Std Plan T9 (TCS element spacing tables)</li> <li>Std Plan T10 (Lane and shoulder closure on freeways and expressways)</li> <li>Std Plan T11 (Lane closure on multilane conventional highway)</li> <li>Std Plan T11A Traffic Control System for Changeable Lane Closure on Multilane Conventional Highways and Expressways</li> <li>Std Plan T13 (Reversing Traffic Control on 2-lane conventional roadway)</li> <li>Std Plan T13B (Additional Flaggers)</li> <li>Std Plan T18 (Speed Reduction on Freeways and Expressways)</li> <li>Std Plan T19 (Speed Reduction on multilane conventional highways)</li> <li>Std Plan T22 (Speed Reduction on twolane conventional highways)</li> <li>Std Plan T30 thru T34 (Temporary pedestrian access routes) as needed</li> </ul>
	Work Zone Speed Limit Reduction	х	х	х	Required per California Manual for Setting Speed Limits and NR Construction Requirements, documented by Project Engineer on Construction Work Zone Speed Limit Reduction Determination Form (CEM 1301)
	Advance/Additional Flaggers				Requirements:  • Advance flaggers are not required

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					Additional flaggers are required, see below
	Pilot Car	Х	Х	Х	Required
	Impact Attenuator Vehicle	X	Х	Х	Required for lane closures on multilane facilities.
	PCMSs	Х	Х	х	Required  1 for each direction of travel
3.4.4	CHP		4.1		
	General Support		Х		
	COZEEP				Not required
3.4.5	CONTINGENCY PLANS		:		
	Backup Equipment Available			Х	
	Contact Local Maintenance		Х		
	Contact Local Contractors		Х		
	24-Hour Traffic Control				Not required
	Incident Response		Х		
	Contact TMT		Х		
	Contact CHP		Х		
	Emergency Evacuation Plan	х	х	х	Use if project is within Elevated Fire Danger Zone on Cal Fire map. See below.

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### 3.4 TMP ELEMENT DETAILED DESCRIPTION

The following sections contain project-specific information corresponding to the **required TMP elements** in the summary table above:

### 3.4.1 TRAFFIC ANALYSIS

LANE CLOSURES: Lane closures on 2-lane conventional highways are not allowed during times when the traffic volumes are high enough to create queues too large to clear in a standard traffic control cycle. Based upon the low traffic volumes for this work location, lane closures will be allowed anytime except after 3:00 p.m. on Fridays, weekends, "designated holidays" and special days. During operations, one 12-ft wide paved traffic lane with adjacent shoulder must be provided at all times. To minimize cumulative delays that result from several closures on a Corridor, only one lane closure is allowed at any one time. During Standard Plan T13 lane closures, public traffic may be held; a maximum of 14 minutes, with the maximum delay required to travel through the lane closure not to exceed 17 minutes from Las-395-PM R5.217 to R29.39; a maximum of 14 minutes, with the maximum delay required to travel through the lane closure not to exceed 17 minutes from Las-395-PM R29.39 to Mod-395-39.49; a maximum of 11 minutes, with the maximum delay required to travel through the lane closure not to exceed 15 minutes from Mod-395-39.49 to 61.56.

SSP12-4.02C(7), "Traffic Control System Requirements", is edited to include these restrictions.

LANE CLOSURE CHARTS: Required for T13 closures. Include SSP 12-4.02C(3)(f), "Lane Closure Restrictions for Designated Holidays and Special Days", and SSP 12-4.02C(3)(k), "Conventional Lane Closure Requirements".

**SPECIAL DAYS:** There is one special local event identified to occur during weekdays when operations will be active. **Include SSP 12-4.02A(2) to define special days.** The **RE** is responsible to contact the Encroachment Permit Office, local chambers of commerce, visitor guides, city/county websites, newspapers, etc. to identify other special events that may become scheduled after PS&E. An awareness of these events will allow the **RE** to be more sensitive to traffic control needs during these events and allow adjustments to the scheduled work and closures as necessary.

**DRIVEWAYS: Standard Spec. 7-1.03 "Public Convenience"** always applies. It directs the Contractor to "Maintain convenient access to driveways, houses, and buildings..." Existing access cannot be closed if alternate access is not available. Similar to road connections, base material must be placed to provide a temporary ramp when the profile difference between the mainline and driveway is excessive.

**TRUCKS:** This project only includes standard plan lane closures; thus, no truck restrictions will occur. **Standard Spec. 12-4.02A(3)(b) "Closure Schedules" always applies** and requires the Contractor to notify the RE not less than 25 days prior to reducing the horizontal and vertical clearance on the traveled way, inclusive of shoulders to 2 lanes or less. (NOTE: Notification does not apply if the change in width is only due to a single-day standard plan lane or shoulder closure with cones, where the full width of existing traveled way and/or shoulders will be provided to public traffic at the end of the working day). For further information contact Armando Perez, North Region Transportation Permits liaison for District 2 at 916-917-3722.

LANE CLOSURE SCHEDULE: Lane closures are requested by the Contractor using the electronic Lane Closure System (LCS). The RE submits approved scheduled lane closures via LCS online. Scheduled lane closures must be submitted by 5:00 p.m. Monday of the week preceding the planned closure. Standard Spec 12-4.02A(3)(b) "Closure Schedules" always applies.

**COORDINATION**: During the 2023 Constr. Yr there are three other projects scheduled within close proximity that would require coordination. **SSP 5-1.20A for coordination with other entities is included.** 

### 3.4.2 PUBLIC AWARENESS

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**TMP PUBLIC INFORMATION CAMPAIGN:** The **PE** will include \$20,000 in the Engineer's Estimate for Dept-Furnished Item # 066063, "Transportation Management Plan - Public Information" for TMP Public Information Campaign to cover public outreach throughout the duration of the project. The **RE**, working with the **D2 PIO**, will collaborate to prepare information. The **D2 PIO**, Denise Yergenson, is the primary contact for news media interactions (530-338-5429). The **RE** is required to maintain communication with the **D2 PIO** and **D2 DTM** regarding the progress of the project and its effect on traffic. To supplement these efforts, the **RE** will coordinate with the **D2 DTM** to activate Highway Advisory Radio (HAR) messages and Changeable Message Signs (CMSs) when corridor delays are significant.

WORKER SAFETY MEDIA CAMPAIGN: Worker Safety Media campaigns have been shown to reduce work zone vehicle collisions, increase public and worker safety and reduce incident related congestion. With safety and reliability being the Department's number 1 and 2 goals respectively; it is appropriate for construction funding to be set aside for worker safety media advertisements. To assist in fulfilling these goals, the PE will add an additional \$10,000 to the Engineer's Estimate Dept-Furnished Item # 066063.

The combined total for TMP Public Information Campaign and Worker Safety Media Campaign for this project under Dept-Furnished Item # 066063 is \$30,000.

CHIN (CALIFORNIA HIGHWAY INFORMATION NETWORK): The information from LCS electronic submittals is entered into CHIN, an information network used by motorists to obtain lane closure information that may result in delays along specified routes. The information is accessed via phone at 1-800-GAS-ROAD (427-7623) within California, 916-445-7623 from outside California, or via the Internet at: <a href="https://roads.dot.ca.gov/">https://roads.dot.ca.gov/</a>. The RE will immediately report any deviations from the submitted LCS so that the CHIN can be updated. If this occurs during regular working hours (Monday through Friday, 7:00 a.m. to 5:00 p.m.) the RE will make a report to the D2 Dispatch office. During evening hours, the RE will make a report to the appropriate CHP dispatch. The RE will periodically dial the public number to the CHIN and verify the system has correct and current information related to the project.

RIB (ROAD INFORMATION BULLETIN): The D2 PIO incorporates current LCS information into the weekly RIB, which is distributed on Fridays. The RIB is faxed or e-mailed to over 100 locations including, but not limited to, local agencies, law-enforcement offices, newspapers, radio stations, TV stations, truck stops, CalFire offices, Forest Service offices and hospitals within the District as well as HQ transportation permits office.

### 3.4.3 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE

### TRAFFIC CONTROL PLANS:

- Std Plan T9 (TCS element spacing tables)
- Std Plan T10 (Lane and shoulder closure on freeways and expressways)
- Std Plan T10A (Lane closure with partial shoulder use or complete closure on freeways and expressways)
- Std Plan T11 (Lane closure on multilane conventional highway)
- Std Plan T11A Traffic Control System for Changeable Lane Closure on Multilane Conventional Highways and Expressways
- Std Plan T13 (Reversing Traffic Control on 2-lane conventional roadway)
- Std Plan T18 (Speed Reduction on Freeways and Expressways)
- Std Plan T19 (Speed Reduction on multilane conventional highways)
- Std Plan T22 (Speed Reduction on two-lane conventional highways)
- Std Plan T30 thru T34 (Temporary pedestrian access routes) as needed

**WORK ZONE SPEED LIMIT REDUCTION:** Per 2020 California Manual for Setting Speed Limits, for construction work zones on the State highway system, the speed limit shall be reduced by 10 mph from the posted speed limit unless an exception is granted. Authorized exceptions to the Work Zone Speed Limit Reduction are listed in Section 2.3.2. The decisions regarding speed reduction should be discussed at the PDT meeting and documented on the Decision Log. The PE must have team

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concurrence for un-authorized exceptions and obtain approval from the Deputy District Directors for Traffic Operations and Construction.

Per Construction Work Zone Speed Limit Reduction Determination Form (CEM 1301) submitted by the Project Engineer with the TMP Request this project will require a speed zone reduction. **SSP 12-4.02C(12)** for construction work zone speed limit reduction and 12-3.37 for portable vehicle speed feedback signs are included.

**POSITIVE PROTECTION DEVICES**: Positive protection devices should be considered in work zone situations that place workers on foot at increased risk from motorized traffic traveling over 45 mph. When the protection is only needed during the work hours and the situation is expected to last only a few days a Stationary Impact Attenuator Vehicle or Mobile Barrier could be used. Contact Construction and Traffic Safety Acting Chief, Dan Norris regarding the most appropriate device for this project.

**ADVANCE/ADDITIONAL FLAGGERS:** Based on traffic volumes, mainline queues are not anticipated to back-up beyond traffic control signage. Advance flaggers are not required on the mainline. Additional flaggers are required at the following locations:

- Mod-395-PM 28.29 (Junction SR299/SR395)
- Las-395-PM 51.86, 70.21 (Standish Rd/A-3)
- Las-395-PM 115.32 (Termo Grasshopper Rd)

PILOT CAR: Pilot cars are required on this project whenever flaggers cannot maintain visual contact.

IMPACT ATTENUATOR VEHICLE (IAV): Required for lane closures on multilane highways. SSP 12-4.02C(7) for Traffic Control System Requirements is included and edited for these restrictions.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMSs): PCMSs are required for this project. One PCMS must be placed in advance of the first warning sign for each closure. SSP 12-3.32C for portable changeable message signs is included.

### 3.4.4 CALIFORNIA HIGHWAY PATROL (CHP)

The CHP requests the **RE** and/or Construction Inspector be available for contact during all hours that traffic control restrictions are in place. The **RE** will provide a Resident Engineer Report of Assignment to the CHP to clearly define a Caltrans point of contact. The **RE** Report of Assignment contains a callout list for Caltrans as well as the Contractor. It includes names, radio call numbers, phone numbers, cell-phone numbers, pager numbers, and fax numbers. This information is shared among agencies to allow the CHP to quickly resolve any traffic related concerns they encounter:

Dispatch Area	Office Phone	Dispatch Phone	Area Commander
Susanville	530-252-1803	530-252-1900	Captain Ian Troxell

### 3.4.5 CONTINGENCY PLANS:

It is the responsibility of the RE to request a contractor-produced contingency plan for reopening closed lanes to public traffic in the event of equipment breakdown, shortage of materials, lack of production of materials, or other failures. The RE will request, review, and approve the contractor contingency plan prior to commencement of work. Such a plan should include on-site (or readily available) appropriate backup equipment, and identification of potential suppliers of additional material for ready availability. If a road closure cannot be reopened, the contractor is required to provide 24-hour traffic control. SSP 12-4.02A(3)(c) is included in projects with a Traffic Incident Response Plan (TIRP), Emergency Evacuation Plan (EEP) or complex traffic handling and schedule constraints.

**EMERGENCY EVACUATION PLAN:** It is the responsibility of the **RE** to request a Contractor-produced Emergency Evacuation Plan (EEP) for any project that is within the Elevated Fire Danger Zone on the

MINOR TMP

EA: EFIS: CO-RTE-PM: 02-0J890 0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen

PREPARER:

Cal Fire map at: <a href="https://osfm.fire.ca.gov/fire-hazard-severity-zones-maps-2022/">https://osfm.fire.ca.gov/fire-hazard-severity-zones-maps-2022/</a> This project does meet that criteria. SSP 12-4.02A(3)(c), edited for EEP, is included.

**INCIDENTS:** Incident management requires actions are taken thoughtfully and swiftly to restore or minimize effects on traffic when delay occurs. The major components of incident management incorporate early detection of events (such as collisions, material spills, and vehicle breakdowns) that can cause significant traffic delay and quick response time to those events. Following is a list of key personnel in the event an incident occurs:

Name	Phone Number	Cell
Caltrans Dispatch	530-225-3273	
William Sutherland, D2 DTM	530-225-3245	530-949-0922
Travis Heath, TMC Liaison	530-225-3206	530-604-3784
Kristen Begrin, LCS Coordinator	530-225-3379	530-410-1506
Denise Yergenson, D2 PIO Office	530-225-3260	530-209-4419
MTCE Superintendent (Ben Mc Daniel – Susanville)	530-257-5102	530-945-4941
MTCE Supervisor (Brenden Raymond – Susanville East)	530-257-0543	530-941-2625
MTCE Supervisor (Preston Romesha – Alturas)	530-233-4263	530-260-0320

### 4.0 TMP IMPLEMENTATION, REVIEW, AND APPROVALS

### 4.1 TMP IMPLEMENTATION

The ultimate responsibility for implementation of a TMP belongs to the Project Manager (PM). The PM for this project is Brandon Rather (Office phone 530-225-3251).

### 4.2 TMP REVIEWS

This TMP was prepared by Khoi Nguyen, and reviewed by William Sutherland, M.S., P.E., Chief, Office of Traffic Management, Caltrans, District 2 and Jeremiah Pearce, Chief of ITS Engineering and Support.

### 4.3 TMP APPROVALS

See next page.

### 5.0 ATTACHMENTS

- -TMP Attachment "A" TMS Elements
- -TMP Attachment "B" ITS Elements
- -TMP Attachment "C" Actual Traffic Volumes at Project Location
- -Project-specific TMP special provisions (2022 Standards)

02-0J890 0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen

PREPARER:

### TRANSPORTATION MANAGEMENT PLAN APPROVALS

TMP APPROVALS: The District Staff recommends approval of this Traffic Management Plan.

### **PREPARED BY:**

4/4/2023
Date

### **APPROVAL RECOMMENDATIONS:**

William Sutherland	4/4/2023
William Sutherland, M.S., P.E.	Date
Chief, Office of Traffic Management	
District 2	
530-225-3245	

### **ITS REQUIREMENTS APPROVAL RECOMMENDATIONS:**

	4/10/13
Jeremiah Pearce, P.E.	Date
Chief, Office of ITS Engineering & Support	
District 2	
530-225-3320	

### TMP Attachment "A"

DISTRICT 2 TRAFFIC MONITORING STATION ELEMENTS

EU = Existing, Upgrade (Current) ander Construction (Currently under Construction).

E = Existing (Current active collection station NOT needing upgrade),

STATUS OF STATION:

P = Proposed

D = Design (Currently in Design),

LEG DEFINITION: ALeg = After; census station located after Reterence PM (cross street) B Leg = Before; census station located before Reterence PM (cross street) O Leg = equal traffic wolume for back and absolute contract contract and absolute ab

Not likely - Protect in Place Potential Impact 0 0 0 0 0 No. of Loops PB located on R shoulder, 778' N/O SR 70, 92' S/O Pull box located on NB shld by 55 mph sign. (P89) loops approx. 19' S/O PB Pull box located on NB shld and is north of 2 PB's Maintenance Station. Power. Phone. Pull box located on SB shid between CEDARVILLE-Pull box located on Lt shld between driveways at located in sidewalk next to lighting structure... Located south of 4-corner Market driveway next RENO Mileage sign.
Pull box located on E/S by 25 MPH SCHOOL sign.
Installed 1995 Pull box on S/S by 35 MPH sign. Installed 1999. paved gore PB on R shoulder 478' S/O exit sign, 25' N/O Eq JWWO light std Pull box located on E/S by G sign SUSANVILLE -ALTURAS across from HAR sign. Installed 1994 Pull box located W/S by JANESVILLE MILFORD Pull box located on E/S 39' South of Bird Flat Ranch Drivewav. New 2007. PB on R side of entrance, 155' fro, CL 395, and Pull box located on S/S between 55MPH / 65 Installed 1999. PB 10' S/O MBGR end, 92' N/O cattle xing UC, Sta R4.76 Pull box located on rt shid 32' South of SOFT SHOULDER sign & 201' south of "shoe tree". Installed 1994 Pull box located on NB shid by cattle guard. PB 167' S/O paved gore on L side of ramp PB on R side of ramp, 385' N/O PM 4.47 Pull box located on W/S by 45 MPH sign. East of HAR sign. Installed 1996. loop/piezo/loop configuration. MPH signs. Installed 1986. to street light on sidewalk. NB, SB Lt Turn, SB 42' ETW Cab. On SB lanes, approx. 45' off of EP, at PM 2.85, JSO 140' South of Likely Cemetary Rd @ cattle guard, Likely 263' south of PM 52.50 at the Janesville sign. Old #P88 946' South of Co.Rd. A3 (Buntingville-Standish Rd) 201' south of "shoe tree" & 1754' south of PM 8.0 605' south of Co Rd A26 CL at the south side of the Opposite Jones Lane behind guardrail. Old #P138 200' south of CL 299/395 intersection Old #P139 South of Co. Rd A-3 (Standish / Buntingville Rd) 214' north of 299/395 intersection Old #P140 507' North of County Road A-3 (Buntingville) 1,011' South of County Road A3, Standish Herlong/A26 double post sign. Old #P86 General Location 641' West of Railroad track, Alturas 48' North of CL First St., Alturas. 1.5 mi North of Garnier Road 1.761' West Of Jct 395 395 NB on from SR 70 395 SB on from SR 70 2,855' East of Jct 395 926' South of Jct 36 395 SB off to SR 70 385' N/O PM 4.47 Location of Pull Box by PM TMP Actual R61.249 R15.263 3.556 40.378 41.181 R2.852 R4.54 R4.50 R4.863 7.668 29.725 52.45 R60.921 70.216 22.079 22.741 22.805 51.68 69.93 2.674 TMP Actual Location of Loops by PM R2.852 R15.263 22.741 22.805 51.68 No. of Lanes Loops / Bending Plates **Detector Types** Loops / Piezos Loops Loop Loop Loop Loop Loops Loops Loops Loop Loops Loops Loops Loops Loops Loops Loops Loops Cabinet Leg Alturas State Highway Maintenance Station Reference Location Standish, Co Rd A-3 (P89) 395 NB on from SR 70 doney Lake Rest Area 395 SB on from SR 70 Ict Rte 299 W, Alturas lct Rte 299 W, Alturas Likely, Jess Valley Rd 395 NB off to SR 70 Jct Rte 395, Alturas lct Rte 395, Alturas 395 SB off to SR 70 Standish, Co Rd A-3 Standish Rd (WIM) Alturas, First St Jct Rte 70 W Jct Rte 70 W Standish Rd Standish Rd Jct Rte 36 W Jct Rte 36 W Jct Rte 395 **Garnier Rd** Garnier Rd Glenn St Suf TSN Reference PM ONLY (See 40.630 40.640 29.840 51.870 51.680 51.870 70.120 70.120 4.615 4.416 4.768 4.615 29.840 49.530 61.094 61.094 20.975 22.070 4.471 4.863 3.216 22.764 22.764 Pre 299 299 395 395 Rte 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 395 Mod 8 Las Las Las Las Las Las Las Las Mod 125 171 215 966 766 666 198 289 P87 150 158 176 14 175 307 261

Not likely - Protect in Place

GERLACH NEV Sign; MODOC DISTRICT

428' North of Jct 299

28.366

Jct Rte 299, E

28.285

395

# TMP Attachment "B" DISTRICT 2 ITS ELEMENTS

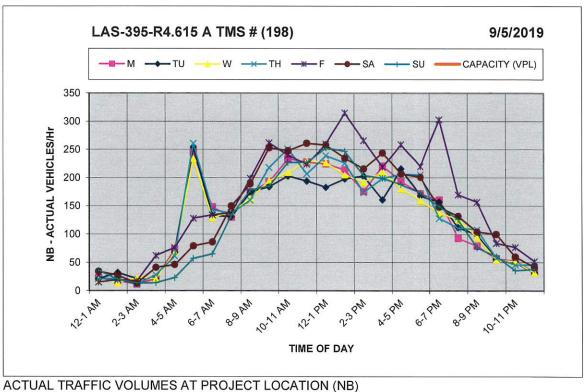
uit TelevisionSigs	isory RadioBussage Sign	g Diodeg Diode	Jside Rest Area	eather Information System	e Pavement Sensor
CCTV = Closed Circuit Television	HAR = Highway Advisory Radio	LED = Light Emitting Diode	SRRA = Safety Roadside Rest Area	RWIS = Roadside Weather Information System	NIPS = Non Invasive Pavement Sensor

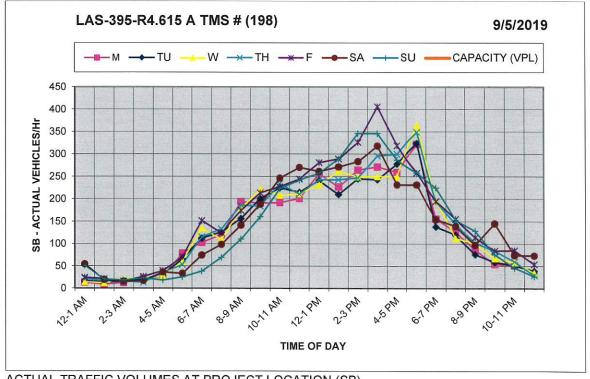
LOCATION	TYPE	.00	RTE	Ъ	РМ	POTENTIAL IMPACTS
Hallelujah Sandhouse	CMS	LAS	70		3.52	Not Likely - Protect in Place
Hallelujah Sandhouse	HAR FLASHER	LAS	70		3.52	Not Likely - Protect in Place
Hallelujah Jct. (US395/SR70)	CMS	LAS	70		3.53	Not Likely - Protect in Place
Bug Station (US395 @ Nevada border)	HAR	LAS	395	R	1.58	Not Likely - Protect in Place
US395 Bug Station N/B Wind Warning	CMS	LAS	385	R	1.7	Not Likely - Protect in Place
North of Bug Station	HAR FLASHER	LAS	362	Я	1.7	Not Likely - Protect in Place
SR395/SR70 (Hallelujah Jct.)	CCTV	LAS	385		4.588	Not Likely - Protect in Place
Glenn Street (South of Alturas)	HAR FLASHER	MOD	395	2	20.94	Not Likely - Protect in Place
Doyle (Hall Road)	CCTV	LAS	395	R	21.88	Not Likely - Protect in Place
Doyle (Hall Road) [Wind WS]	RWIS	LAS	395	R	21.88	Not Likely - Protect in Place
Alturas (at Maintenance Station)	HAR	MOD	385		23.07	Not Likely - Protect in Place
Pencil Road (North of Alturas)	HAR FLASHER	MOD	395		23.74	Not Likely - Protect in Place
Buntingville Road	HAR FLASHER	LAS	382		51.7	Not Likely - Protect in Place
Janesville (Sears Road)	\L)	LAS	382		53.1	Not Likely - Protect in Place
Janesville (Sears Road) [Wind WS]	RWIS	LAS	395		53.1	Not Likely - Protect in Place

0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen

PREPARER:

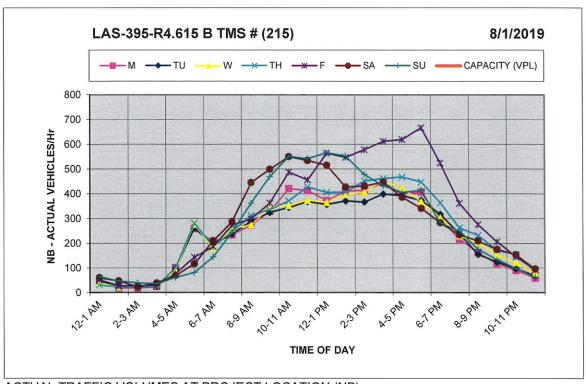
TMP Attachment "C" - Actual Traffic Volumes at Project Location



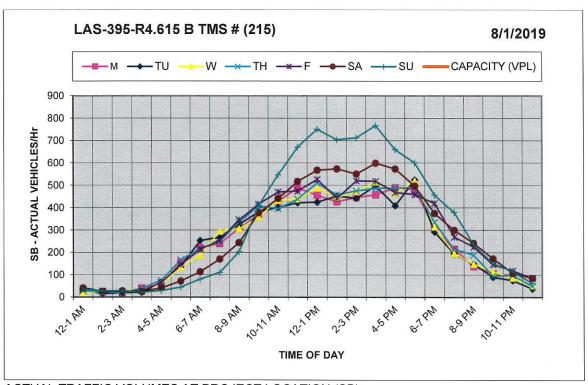


ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (SB)

02-0J890 0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen

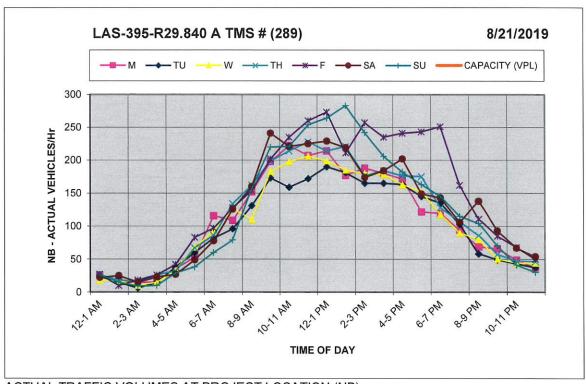


ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (NB)

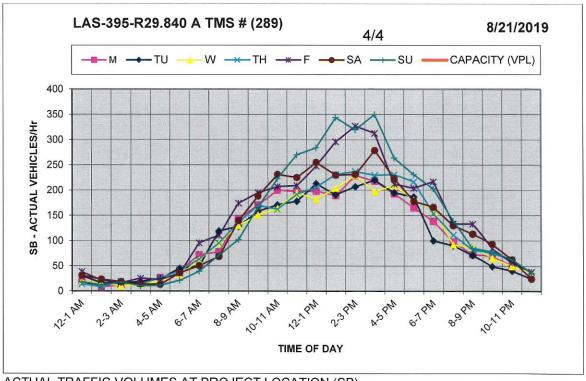


ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (SB)

02-0J890 0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen

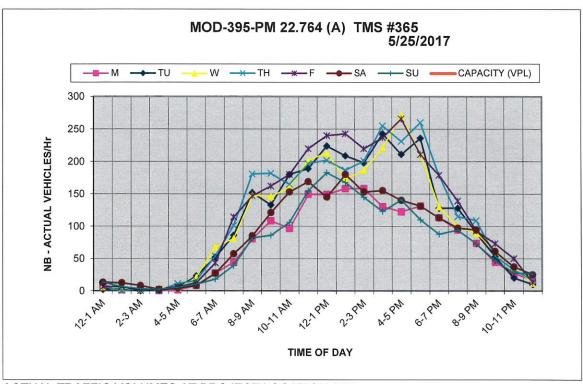


ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (NB)

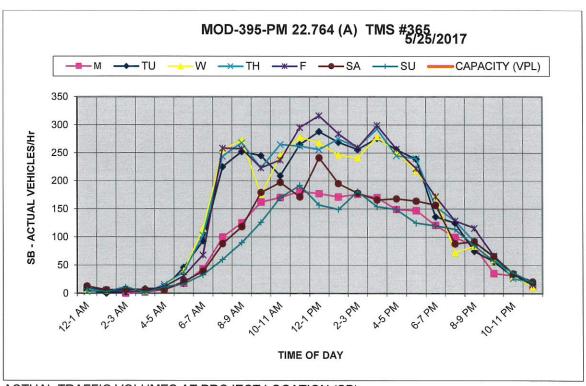


ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (SB)

02-0J890 0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen



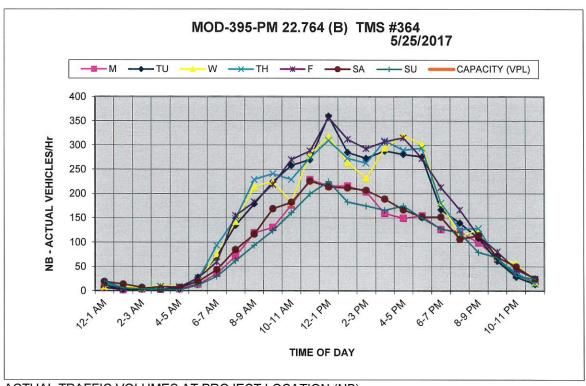
ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (NB)



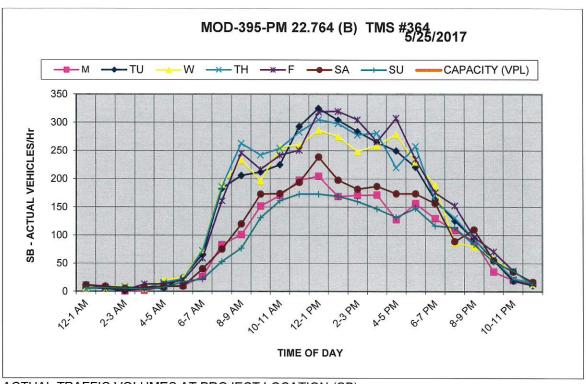
ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (SB)

02-0J890 0219000172 Sie-395-0.0/3.18 Las-395-0.0/138.98 Mod-395-0.6/61.56 Khoi Nguyen

PREPARER:



ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (NB)



ACTUAL TRAFFIC VOLUMES AT PROJECT LOCATION (SB)

### DISTRICT 2 ITS ELEMENTS

			2		2					
	C - Construction,	'n,	D - Design,	Ш	E - Existing,	P - Possible,		EU - Existing Element (Upgrade)	t (Upgrade)	
CCTV = Closed Circuit Television	stem	C	CMS = Changeable Message Sigs EMS = Extinguishable Message Sign TMS = Traffic Monitoring System DS = Data Sheet FCS = Flashing Chain Sign	le Mesi nable N nitoring	e Sigs sage Sign rstem					
EXISTING ELEMENT	ш		POSSIBLE			۵		CONSTRUCTION	CTION	O
EXISTING ELEMENT (UPGRADE)	EU		DESIGN			O		CORRECTED PM	ED PM	RED FONT
EXISTING ELEMENT (CONSTR)	EC		REMOVED			REM				4/4/2023
	NOTE>>>>>>>>	ALL	POST MILE	LOCATIONS	FOR	POSSIBLE' SITES	ARE	APPROXIMATE <	<<<< <nul></nul>	
LOCATION	ТҮРЕ	9	RTE	۵	PM	STATUS	EA	Secondary EA	Շ	NOTES
Hallelujah Sandhouse	CMS	LAS	02		3.52	E	02-1E470			#16 FWBT - Model 510
Hallelujah Sandhouse	HAR FLASHER	LAS	70		3.52	E	02-1E470			Flasher FEBT
Hallelujah Jct. (US395/SR70)	CMS	LAS	02		3.53	Е	02-1E470 0200000106		12/13	#35 FEBT - Model 510
Bug Station (US395 @ Nevada border)	HAR	LAS	395	R	1.58	EU	02-27761			#6 HAR - Standard - 1610AM - WPFK508 Upgrade to superstation
US395 Bug Station N/B Wind Warning	CMS	LAS	395	~	1.70	Е	02-1E470 0200000106		12	# 36 FNBT - Model 500
North of Bug Station	HAR FLASHER	LAS	395	R	1.70	Е	02-1E470 0200000106		12	Flasher FNBT & FSBT
SR395/SR70 (Hallelujah Jct.)	CCTV	LAS	395		4.59	E	02-4E420			Existng power and phone nearby
Glenn Street (South of Alturas)	HAR FLASHER	MOD	395	R	20.94	E	02-3603U			Flasher FNBT and FSBT BBS installed
Doyle (Hall Road)	CCTV	LAS	395	R	21.88	E	02-38660			BBS Installed
Doyle (Hall Road) [Wind WS]	RWIS	LAS	395	R	21.88	E	02-38660			BBS installed - No Pucks
Alturas (at Maintenance Station)	HAR	MOD	395		23.07	E				#14 HAR - FM - 97.9FM - KAMI-LP
Pencil Road (North of Alturas)	HAR FLASHER	MOD	395		23.74	Ш	02-3603U			Flasher FNBT and FSBT BBS installed
Buntingville Road	HAR FLASHER	LAS	395		51.70	Е	02-1C730			Flasher FNBT and FSBT - BBS Installed

BBS installed - No Pucks

02-38660

шш

53.10

395

LAS

CCTV

Janesville (Sears Road)
Janesville (Sears Road) [Wind WS]

BBS Installed

### STANDARD PLANS

STATE OF CALIFORNIA
CALIFORNIA STATE TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

### 2022 Edition

### PUBLISHED BY DEPARTMENT OF TRANSPORTATION



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SHEET TOTAL No. SHEET:		١,	EN	O INEE	R	**
SHEET No.			No.	Charles D. Suszko	2-24-24	CIVIL A
TOTAL PROJECT			1000	Charles	<u>!</u>	
TOTAL		وا	EER			SIBLE FOO OF SCANN
ROUTE	,	J. 8.	REGISTERED CIVIL ENGINEER	2022	'AL DATE	THE STATE OF CALIFORNIA OR ITS OFFICERS OF ACCURACY SHALL FOR THE ACCURACY OF COMPLETERSS OF SCANNED COPIES OF THIS PLAN SHEET.
Dis+ COUNTY		Releg 9	1STERED C	Augus† 1,	PLANS APPROVAL DATE	THE STATE OF CALIFORNIA OF OR AGENTS SHALL NOT BE RE THE ACCURACY OR COMPLETEN COPIES OF THIS PLAN SHEET.
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TABLE 1

					_	_		_	_	_			_		_	
	LIZING	** Z	CONFLICT	++	10	12	15	17	20	22	52	52	25	52	25	52
	MAXIMUM CHANNELIZING DEVICE SPACING	>-	TANGENT	++	40	50	09	70	80	06	100	100	100	100	100	100
ACING	MAXIMU DE	×	TAPER	++	20	25	30	35	40	45	20	20	50	90	50	20
TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING	* H		SHOULDER L/3	ţ	27	42	09	82	107	180	200	220	240	260	280	300
NGTH CING DEV	TAPER LENGTH *		SHIFTING L/2	++	40	63	06	123	160	270	300	330	360	390	420	450
APER LE ANNELIZ	MINIMUM TA		MERGING L	++	80	125	180	245	320	540	009	099	720	780	840	006
H H	FOR WI	5	TANGENT 2L	ţ.	160	250	360	490	640	1080	1200	1320	1440	1560	1680	1800
		SPEED	(S)	hdm	20	25	30	35	40	45	50	55	09	65	70	75

 $\star$  - For other offsets, use the following merging taper length formula for L: For speed of 40 mph of less, L = MS/60 For speed of 45 mph or more, L = WS

 Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  $\star\star$  - Longitudinal buffer space or flagger station spacing \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

998

820

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

 $\star\star$  - Use for toper and tangent sections where there are no povement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 3

ADVANCE WARNING SIGN SPACING	N SPAC	ING	
	DISTANCE	DISTANCE BETWEEN SIGNS*	* SIGNS
ROAD TYPE	٧	æ	ပ
	++	ŧ.	++
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	009	200	200
EXPRESSWAY / FREEWAY	1000	1500	2640

76-±

-3%

Min D\*\*

SPEED\*

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

TABLE 2

DOWNGRADE Min D -6% \* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

126 173 227 287 287 354 427 507 507 586 686

120 165 215 271 333 333 470 474 474 553 638 638 825 927

1116 158 205 205 2257 315 378 446 520 520 598

mph mph 20 25 25 30 30 35 40 40 40 60 60 60 60 65 75 75

ft 115 200 200 250 250 305 360 425 495

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

## TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

