

Permit No. 1018-NUK-0308	
Dist/Co/Rte/PM 10-CAL-4-32.2/37.0	
Date October 18, 2018	
Fee Paid \$ Exempt	Deposit \$
Performance Bond Amount (1) \$	Payment Bond Amount (2) \$
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (Check one):

- Your application of **May 16, 2018**
- Utility Notice No. _____ of _____
- Agreement No. _____ of _____
- R/W Contract No. _____ of _____

TO: _____
Calaveras County Water District
120 Toma Court
San Andreas, CA 95249

ATTN: Charles Palmer
TEL: 209-754-3174

_____, PERMITTEE

And subject to the following, PERMISSION IS HEREBY GRANTED to:

Replace existing water transmission main with new PC 350 8" and 12" diameter Ductile Iron Pipe (DIP) along various locations inside State Highway 4 right of way from Forest Meadows to Avery in Calaveras County. Work includes replacing and updating various water main appurtenances and five (5) transverse crossing under and across State Highway 4 to place 6" or 8" diameter DIP inside a steel carrier pipe by jack and bore method. Replace small 2" diameter or less pipe with horizontal directional drilling method. **All work shall conform to the approved plans and special provisions per Caltrans Standard Specifications Dated 2015 and California MUTCD Dated 2014.** Traffic control shall be as directed by the State Representative. Traffic control shall be done as per attached lane closure chart.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER

The following attachments are also included as part of this permit (Check applicable):			In addition to fee, the permittee will be billed actual costs for:		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	General Provisions	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Review
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Utility Maintenance Provisions	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Inspection
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Special Provisions T	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Field Work
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	A Cal-OSHA permit, if required: Permit No. _____	(If any Caltrans effort expended)		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	As-Built Plans Submittal Route Slip for Locally Advertised Projects			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Storm Water Pollution Protection Plan			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	The information in the environmental documentation has been reviewed and considered prior to approval of this permit.			

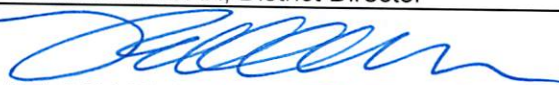
This permit is void unless the work is complete before **December 31, 2019.**

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized. No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

Original: Permittee
 2 - Bal Paul
 1 - R. Hoffman
 1 - Maintenance
 1 - PIO
 1 - File

APPROVED:

 DENNIS T. AGAR, District Director

 **10-18-2018**
 NELSON MAGSAYO, District Permit Engineer

Eddie

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Permittee shall notify the State Representative **Bal Paul Bahadur** (email: bal.bahadur.paul@dot.ca.gov), 850 S. Guild Ave., Suite 107, Lodi, CA 95240, (209) 629-5415, **SEVEN WORKING DAYS PRIOR** to the start of this work if no traffic controls will be needed to accomplish the permit work. A pre-job meeting and/or conference with the Permittee/Permittee's Contractor, and State Representative is required prior to start of work unless waived by the State Representative. Permittee shall contact the State Representative and arrange for the pre-job meeting.

Permittee must provide a Resident Engineer or an independent construction management company to provide the daily construction contract administration and inspection services with the State representative providing construction inspection oversight.

Notwithstanding General Provision #4, your Contractor is required to apply for and obtain an encroachment permit prior to start of work. Contractor will be charged applicable inspection fees.

All work done under this permit must meet with the approval of the State Representative.

Failure on the Permittee's part to comply with any provision will be cause for revocation of this permit.

IMMEDIATELY FOLLOWING COMPLETION OF WORK PERMITTED HEREIN, PERMITTEE SHALL FILL OUT AND MAIL NOTICE OF COMPLETEION PROVIDED BY GRANTOR.

Permittee's attention is directed to Section 6, "CONTROL OF MATERIALS", of the State Standard Specifications Reference to Engineer in the State Standard Specifications shall include State Representative.

Permittee/contractor shall work with the State Representative to request the necessary lane closure needed. Request shall be the week prior to the actual work. The State Representative shall submit closure through the Lane Closure System (LCS) for Traffic Management Center (TMC) approval by Wednesday afternoon of the week prior.

All Lane closures shall be called in by either the contractor to the TMC when the closure begins (10-97), ends (10-98), or is cancelled (10-22). The TMC can be reached (24-7) at (209) 948-7556 or 7551.

This permit is not valid until Permittee has obtained permission from adjacent property owners, Irrigation Districts, Cities, Counties or other interested parties to perform the proposed work.

No lane closures, shoulder closures or other traffic restrictions shall be allowed on the following day(s): January 1 – New Year's Day, Martin Luther King Jr. Day, Lincoln's Birthday, Washington's Birthday, Cesar Chavez Day, Memorial Day, July 4 – Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Friday Day after Thanksgiving, December 25 - Christmas Day. When a holiday falls on a Sunday, it is observed on the following Monday.

Use proper traffic control devices throughout the duration of the project as per Caltrans Standard Specifications.

Except when necessary, as determined by the State Representative, no installation, construction equipment or personal vehicles shall operate or park within the traveled way.

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All work shall be performed in accordance with the current Department of Transportation Standard Specifications and the Department of Transportation Encroachment Permit Utility Provision dated April 2018.

Recommended depth of cover for various pipe diameters: (Applies to jack & bore & HDD)

DIAMETER	DEPTH OF COVER
2 inches (50mm) to 6 inches (150 mm)	4 feet (1.2 meters)
8 inches (200 mm) to 14 inches (350 mm)	6 feet (1.8 meters)
15 inches (375 mm) to 24 inches (600 mm)	10 feet (3.0 meters)
25 inches (625mm) to 48 inches (1200mm)	15 feet (4.5 meters)

In accordance with Section 6500 of the Labor Code, a Cal-OSHA permit is required prior to the start of work.

Welded steel pipe shall be jacked or bored, without the use of water as a jet, under the pavement and improved surfacing, without disturbing same. Construction equipment for use in installing underground facility shall provide uniform depth and proper alignment. The type of said equipment is subject to approval by State representative. Jacked welded steel pipe shall conform to the provisions for laying pressure pipe in Section 65-1.08 "Laying Siphon and Pressure Pipe", provisions for jacking corrugated steel pipe in Section 66-3.10 "Jacking Pipes", and the provisions for welded steel pipe in Section 70-1.02B "Welded Steel Pipe", of the Standard Specifications. The last paragraph of Section 66-3.10 "Jacking Pipes", shall not apply. The Permittee shall, at his expense, pressure grout the area between the casing and the native material in order to fill any voids caused by the work covered under this permit. Grouting shall be in conformance with the Caltrans Encroachment Permit Utility Provisions, dated April 2018.

Materials to be used in the work under this permit shall conform to Section 6 of the Caltrans Standard Specifications.

Bore shall be completed without the use of water as a jet, under the pavement and improved surfacing, without disturbing same. Construction equipment for use in making bore shall provide uniform depth and proper alignment. The type of said equipment is subject to approval by State Representative. Plastic line shall be installed immediately upon completion of bore. The Permittee shall, at his expense, pressure grout the area between the casing and the native material in order to fill any voids caused by the work covered under this permit. Grouting shall be in conformance with the Caltrans Encroachment Permit Utility Provisions, dated April 2018.

Materials to be used in the work under this permit shall conform to Section 6 of the Caltrans Standard Specifications.

No cutting of pavement or improved shoulder is authorized under this permit.

All work shall be conducted in such a manner that the excavation, excavated earth, materials and equipment will not cause any inconvenience to the highway traffic or to traffic entering the highway from any public or private approach.

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No earth or construction materials are to be dragged or scraped across the highway pavement. No excavated earth shall be placed or allowed to remain at a location where it can be tracked onto the highway traveled way or any public or private approach by the Permittee's construction equipment, or by traffic entering or leaving the highway traveled way. Any excavated earth or mud so tracked onto the highway pavement or public or private approach shall be immediately removed by the Permittee.

Installations and clearances shall be equal to those required by either the California Public Utilities Commission orders or the California Occupational Safety and Health Regulations (Cal-OSHA), Division of Industrial Safety, Safety Orders, promulgated in the California Administrative Code, Title 8, Chapter 4, whichever is greater.

Backfill for installations outside the highway roadbed shall be thoroughly compacted to a density that existed prior to excavation, and made to conform to the surrounding ground surface.

UTILITIES INSIDE THE CLEAR RECOVERY ZONE (CRZ): All above ground structures or utility facilities within the State Highway right of way, including but not limited to utility poles, cabinets conduits, enclosures, temporary signs, temporary/permanent fences, and etc...shall be placed outside the **clear recovery zone (CRZ)**, e.g. 20' from edge of travelled way or 2' from face of curb. Any accident caused or aggravated by any of these facilities if within the CRZ shall be the responsibility of the permittee. Permittee shall indemnify and hold harmless the State, its officers, and employees from any and all claims suits of actions brought forth, or on account of injuries from the accident.

ENVIRONMENTAL: The general area in the vicinity of the proposed permit work may be environmentally sensitive. All mitigation and related work, in accordance with General Provision No. 26, is the responsibility of the Permittee.

If buried cultural materials of any typed are revealed, all works in the area must stop until a qualified archaeologist can assess the nature and significance of the find. Caltrans must be informed of any finds and if significance has been attached to the find.

GRID: A survey grid shall be set and appropriately checked over the centerline of the pipe jacking or tunneling operation. Copies of the survey notes shall be submitted to the Department's representative.

HORIZONTAL DIRECTIONAL DRILLING: The State of California requires that any Horizontal Directional Drilling (HDD) operator performing directional drilling on State of California property, involving a State of California permit or falling under the authority of the State of California must receive training in the safe operation of HDD equipment. This training must include the basic operation and safety of the HDD as contained in the HDD Equipment Manufacturer's Operator's Manual. The training shall be provided by the HDD equipment manufacturer, HDD equipment authorized dealer or manufacturer's authorized trainer.

The permittee shall provide a copy of the bore-log showing horizontal and vertical alignment (depth). A bore-log shall be kept for both the pilot bore and the reaming process. These records shall be provided to the State's representative daily. The bore-log shall depict a plan profile of the actual bore path.

PEDESTRIAN SAFETY: When the work area encroaches upon a sidewalk, walkway, or crosswalk area, special consideration must be given to pedestrian safety. Protective barricades, fencing, handrails, and bridges, together with warning and guidance devices and signs must be

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utilized so that the passageway for pedestrians, especially blind and other physically handicapped is safe and well defined and shown on the approved permit plan.

CROSSING ROADWAY BY BORING AND JACKING OR TUNNELING: Pipes shall normally be bored and jacked or tunneled underneath pavement without disturbing same. Pavement or roadway shall not be cut unless specifically allowed by the permit. Service pipes will not be permitted inside culverts used as drainage structures. Schedule of contractor's work hours shall be submitted prior to the start of work.

All bores shall be accomplished by the dry-bore method. Other methods of boring are prohibited unless specifically approved by the Department's engineer. Bentonite may be used as a lubricant only.

Casing shall be a steel conduit with a minimum inside diameter sufficiently larger than the outside diameter of the pipe or ducts to accommodate placement and removal. The casing can be either new or used steel pipe, or any other approved connector system. Used pipe shall be approved by the Department's Engineer or Representative before installation.

Casings:

- A. All pipes 6 inches (152 mm) or larger in diameter shall be placed within a steel casing. Installation of multiple pipes or ducts, regardless of diameters, shall require a steel casing.
- B. Minimum wall thickness for steel pipe casing for different sized pipes are as follows:

Casing (Diameter)	Pipe	Up to 46 m (Length)
6" to 28"		1/4"
30" to 38"		3/8"
40" to 60"		1/2"
62" to 72"		3/4"

- C. Spiral welded casing is authorized provided the casing is new and the weld is smooth.
- D. The ends of the casing shall be plugged with ungrouted bricks or other suitable material approved by Department's Representative.
- E. When required by the Department's Representative, the Permittee shall at his expense, pressure grout the area between the pavement and the casing form within the casing and /or from the top of pavement in order to fill any voids caused by the work covered under this permit. The increments for grout holes inside the pipe shall be 8 feet (2.44 m) staggered and located 22-1/2 degrees from vertical axis of the casing. Pressure shall not exceed 5 psig (24.476 kPa) for duration sufficient to fill all voids.
- F. The installation of multiple casings shall be installed with a minimum of 1-1/2 diameters clearance between casings, but not less than 18 inches (0.457 m). The clearance between casings crossing freeways shall be two (2) diameters minimum, but not less than 24 inches (610mm).
- G. The casings placed within freeway right of way shall extend to the access control lines.
- H. Wing cutters, if used, shall be a maximum of 1 inch (25.4 mm) larger than the casing. Voids caused by the use of wing cutters shall be grouted in accordance with "E" above.

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- I. A band welded to the leading edge of the casing should be placed square to the alignment. The band should not be placed on the bottom edge. Flaring the lead section on bores over 30.48 m (100') shall not be permitted.
- J. All casing lengths shall equal to the auger length.
- K. The casings within conventional highways shall extend 5 feet (1.52 m) beyond the back of curb or pavement, or to the right of way line if less. Where PCC cross gutter exists, the casing shall extend at least 5 feet (1.52 m) beyond the back of the cross-gutter, or to the right of way line if less.

Bore pit and receiving pit normally shall be:

- A. Located at least 10 feet (3.04 m) or more from the edge of pavement on conventional highways in rural areas.
- B. Located 5 feet (1.52 m) behind the concrete curb or AC dike on conventional highways in urban areas.
- C. Located 5 feet (1.52 m) outside the toe of slope of embankment areas.
- D. Located outside freeway right of way.
- E. Adequately fenced and /or have a Type-K barrier placed around them.
- F. Adequately shored in accordance with Cal-OSHA requirements. Shoring for jacking and receiving pits located with 15 feet (4.57 m) of traffic lanes on a State Highway shall not extend more than 36 inches (0.914 m) above the pavement grade unless otherwise authorized by Department's Representative. Reflectors shall be affixed to the shoring on the sides facing traffic. A 6 feet (1.82 m) chain link fence shall be installed around the perimeter of the pits during non-working hours.
- G. All pits should have crushed-rock and sump areas to clear groundwater and water used to clean the casing. Where ground water is found and pumping is required, the pits shall be lined with filter fabric.

LIMIT OF EXCAVATION:

No excavation is allowed within 10 feet (3.04 m) from the edge of pavement except in curbed urban areas or as specified in the permit. Where no curb exists and excavations within 10 feet (3.04 m) of the traveled way are to remain open, a temporary Type-K railing shall be placed at a 20:1 taper or as otherwise directed by the Department.

"Your attention is directed to Standard Specification, Section 5-1.36 Property and Facility Preservation, and Business and Professions Code, Section 8771. Permittee shall physically inspect the work site and locate survey monuments before work commencement. Monuments that might be disturbed shall be referenced or reset in accordance with Business and Professions Code."

"If feasible, monuments should not be set within the traveled way. All monuments that must be set or perpetuated in paved surfaces, shall be constructed in accordance with Caltrans Standard Specification Section 81 'monuments' and Standard Plan A74, Type D, or equal with prior approval of the District Surveys Engineer."

"Copies of Corner Records filed or Record of Surveys recorded in compliance with the Business and Professions Code shall be forwarded to the District Surveys Engineer."

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The State of California, Department of Transportation makes no assurance or expressed warranty that the plans are completed or that the planned construction fits field conditions. Should additional work or modifications of the work be required in order to meet established Department Standards or in order to fit field conditions, the work shall be performed by Permittee as directed by the State Representative.

Permittee shall fully conform to the requirements of the Caltrans Statewide **NPDES Storm Water Permit, Order No. 2012-0011-DWQ, NPDES No. CAS000003, re-issued by the State Water Resources Control Board on September 19, 2012.** The Permittee shall also conform to the requirements of the General NPDES Permit for construction Activities and any subsequent General Permit in effect at the time of issuance of this Encroachment Permit. These permits regulate storm water discharges associated with year-round construction or special event encroachment activities.

For all projects of 1 acre or more the Permittee shall develop, implement, and maintain a **Storm Water Pollution Prevention Plan (SWPPP)** and for projects less than 1 acre a **Water Pollution Control Program (WPCP)**. Either the Plan or Program shall also conform to the requirements of the Caltrans Storm Water Quality Handbook, Construction Contractor's Guide and Specifications and Caltrans Specification Section 7-1-.01G and subsequent revisions.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT GENERAL PROVISIONS
TR-0045 (REV. 09/2017)

1. **AUTHORITY:** The California Department of Transportation ("Department") has authority to issue encroachment permits under Division 1, Chapter 3, Article 1, Sections 660 through 734 of the Streets and Highways Code.
 2. **REVOCAION:** Encroachment permits are revocable on five (5) business days' notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. Notwithstanding the foregoing, in an emergency situation as determined by the Department, an encroachment permit may be revoked immediately. These General Provisions and any applicable Special Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State of California ("State") highway right-of-way are exceptions to this revocation.
 3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay encroachment permit fees when due may result in rejection of future applications and denial of encroachment permits.
 4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this encroachment permit.
 5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept and comply with these General Provisions, the Special Provisions, any and all terms contained in this encroachment permit, and all attachments to this encroachment permit, for any work to be performed under this encroachment permit.
 6. **BEGINNING OF WORK:** When traffic is not impacted (see General Provision # 35), the permittee must notify the Department's representative two (2) business days before starting permitted work. Permittee must notify the Department's representative if the work is to be interrupted for a period of five (5) business days or more, unless otherwise agreed upon. All work must be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this encroachment permit.
 7. **STANDARDS OF CONSTRUCTION:** All work performed within State highway right-of-way must conform to all applicable Departmental construction standards including but not limited to: Standard Specifications, Standard Plans, Project Development Procedures Manual, Highway Design Manual and Special Provisions.
- Other than as expressly provided by these General Provisions, the Special Provisions, the Standard Specifications, Standard Plans, and other applicable Departmental standards, nothing in these General Provisions is intended to give any third party any legal or equitable right, remedy, or claim with respect to these General Provisions or any provision herein. These General Provisions are for the sole and exclusive benefit of the permittee and the Department.
- Where reference is made in such standards to "Contractor" and "Engineer," these are amended to be read as "Permittee" and "Department's representative," respectively, for purposes of this encroachment permit.
8. **PLAN CHANGES:** Deviations from plans, specifications, and/or encroachment permit provisions are not allowed without prior approval from the Department's representative.
 9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee must request a final inspection for acceptance and approval by the Department. The local public agency permittee must not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
 10. **PERMIT AT WORKSITE:** Permittee must keep the permit package or a copy thereof at the work site at all times, and must show it upon request to any Department representative or law enforcement officer. If the permit package, or a copy thereof, is not kept and made available at the work site at all times, the work must be suspended.
 11. **CONFLICTING ENCROACHMENTS:** Permittee must yield start of work to ongoing, prior authorized work adjacent to or within the limits of the permittee's project site. When existing encroachments conflict with permittee's work, the permittee must bear all cost for rearrangements (e.g., relocation, alteration, removal, etc.).
 12. **PERMITS FROM OTHER AGENCIES:** This encroachment permit is invalidated if the permittee has not obtained all permits necessary and required by law, including but not limited to permits from the California Public Utilities Commission (CPUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction. Permittee warrants all such permits have been obtained before beginning work under this encroachment permit.
 13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum continuous passageway of four (4) feet must be maintained through the work area at existing pedestrian or bicycle facilities. At no time must pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades must be installed

at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.04, *Public Safety*, of the Department's Standard Specifications.

14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee must provide traffic control protection, warning signs, lights, safety devices, etc., and take all other measures necessary for the traveling public's safety. While providing traffic control, the needs of all road users, including but not limited to motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act, must be an essential part of the work activity.

Lane and/or shoulder closures must comply with the Department's Standard Specifications and Standard Plans for traffic control systems, and with the applicable Special Provisions. Where issues are not addressed in the Standard Specifications, Standard Plans, and/or Special Provisions, the California Manual on Uniform Traffic Control Devices (Part 6, *Temporary Traffic Control*) must be followed.

15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee must plan and conduct work so as to create the least possible inconvenience to the traveling public, such that traffic is not unreasonably delayed. On conventional highways, permittee must place properly attired flagger(s) to stop or warn the traveling public in compliance with the California Manual on Uniform Traffic Control Devices (Chapter 6E, *Flagger Control*).

16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this encroachment permit. If encroachment permit Special Provisions allow for the storage of equipment or materials within the State highway right-of-way, the equipment and material storage must also comply with Section 7-1.04, *Public Safety*, of the Department's Standard Specifications.

17. **CARE OF DRAINAGE:** Permittee must provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Department's Standard Specifications, Standard Plans, and/or as directed by the Department's representative.

18. **RESTORATION AND REPAIRS IN STATE HIGHWAY RIGHT-OF-WAY:** Permittee is responsible for restoration and repair of State highway right-of-way resulting from permitted work (Streets and Highways Code, section 670 et seq.).

19. **STATE HIGHWAY RIGHT-OF-WAY CLEAN UP:** Upon completion of work, permittee must remove and dispose of all scraps, refuse, brush, timber, materials, etc.

off the State highway right-of-way. The aesthetics of the highway must be as it was before work started or better.

20. **COST OF WORK:** Unless stated otherwise in the encroachment permit or a separate written agreement with the Department, the permittee must bear all costs incurred for work within the State highway right-of-way and waives all claims for indemnification or contribution from the State, the Department, and from the Directors, officers, and employees of the State and/or the Department.

21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set Standard Hourly Rate for encroachment permits.

22. **AS-BUILT PLANS:** When required, permittee must submit one (1) set of folded as-built plans within thirty (30) calendar days after completion and acceptance of work in compliance with requirements listed as follows:

- a) Upon completion of the work provided herein, the permittee must submit a paper set of As-Built plans to the Department's representative.
- b) All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
- c) The plans are to be prominently stamped or otherwise noted "AS-BUILT" by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a Department stamp, or by signature of the Department's representative, must be used for producing the As-Built plans.
- d) If construction plans include signing or striping, the dates of signing or striping removal, relocation, or installation must be shown on the As-Built plans when required as a condition of the encroachment permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage must show the removal, relocation, and installation dates of the appropriate staged striping and signing.
- e) As-Built plans must contain the Encroachment Permit Number, County, Route, and Post Mile on each sheet.
- f) The As-Built Plans must not include a disclaimer statement of any kind that differs from the obligations and protections provided by sections 6735 through 6735.6 of the California Business and Professions Code. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future encroachment permits or a provision requiring a public agency to supply additional bonding.

23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the State highway right-of-way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt encroachment permit is issued to the permittee for the purpose of providing a notice and record of work. The permittee's prior rights must be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" must be stamped across the face of the encroachment permit.
24. **BONDING:** The permittee must file bond(s), in advance, in the amount(s) set by the Department and using forms acceptable to the Department. The bonds must name the Department as obligee. Failure to maintain bond(s) in full force and effect will result in the Department stopping all work under this encroachment permit and possibly revoking other encroachment permit(s). Bonds are not required of public corporations or privately owned utilities unless permittee failed to comply with the provisions and/or conditions of a prior encroachment permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedure section 337.15. A local public agency permittee also must comply with the following requirements:
- a) In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local public agency permittee agrees to require the construction contractor to furnish both a payment and performance bond in the local public agency's name with both bonds complying with the requirements set forth in Section 3-1.05 *Contract Bonds* of the Department's Standard Specifications before performing any project construction work.
 - b) The local public agency permittee must defend, indemnify, and hold harmless the State and the Department, and the Directors, officers, and employees of the State and/or Department, from all project construction related claims by contractors, subcontractors, and suppliers, and from all stop notice and/or mechanic's lien claimants. The local public agency also agrees to remedy, in a timely manner and to the Department's satisfaction, any latent defects occurring as a result of the project construction work.
25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the permittee must comply with said notice at the permittee's sole expense.
26. **ENVIRONMENTAL:**
- a) **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are identified or encountered in the work vicinity, the permittee must immediately stop work, notify the Department's representative, retain a qualified archaeologist who must evaluate the site at permittee's expense, and make recommendations to the Department's representative regarding the continuance of work.
 - b) **HAZARDOUS MATERIALS:** If any hazardous waste or materials (such as underground storage tanks, asbestos pipes, contaminated soil, etc.) are identified or encountered in the work vicinity, the permittee must immediately stop work, notify the Department's representative, retain a qualified hazardous waste/material specialist who must evaluate the site at permittee's expense, and make recommendations to the Department's representative regarding the continuance of work.
- Attention is directed to potential aerially deposited lead (ADL) presence in unpaved areas along highways. It is the permittee's responsibility to take all appropriate measures to protect workers in conformance with California Code of Regulations Title 8, Section 1532.1, "Lead," and with Cal-OSHA Construction Safety Orders, and to ensure roadway soil management is in compliance with Department of Toxic Substances Control (DTSC) requirements.
27. **PREVAILING WAGES:** Work performed by or under an encroachment permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the California Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements must be directed to the California Department of Industrial Relations.
28. **LIABILITY, DEFENSE, AND INDEMNITY:** The permittee agrees to indemnify and save harmless the State, the Department, and all Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description brought for or on account of property damage or injury to or death of any person, including but not limited to members of the public, the permittee, persons employed by the permittee, and persons acting on behalf of the permittee, arising out of or in connection with: (a) the issuance and/or use of this encroachment permit, and/or (b) the work or other activity conducted pursuant to this encroachment permit, and/or (c) the installation, placement, subsequent operation, and/or maintenance of said encroachment, and/or (d) the failure by the permittee or anyone acting on behalf of the permittee to perform permittee's obligations under this encroachment

permit in respect to maintenance or any other obligation, and/or (e) a defect or defects in the work, or obstructions related to the work, or from any cause whatsoever. The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code.

It is the intent of the parties that except as prohibited by law, the permittee will defend, indemnify, and hold harmless as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the Department, the Directors, officers, employees, agents and/or contractors of the State and/or Department, including but not limited to the Director of Transportation and the Deputy Directors, the permittee, persons employed by the permittee, and/or persons acting on behalf of the permittee.

The permittee waives any and all rights to any type of expressed or implied indemnity against the State, the Department, the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors.

The permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the permitted activity, and further agrees to defend, indemnify, and save harmless the State, the Department, the Directors, officers, employees, and/or agents of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of or by virtue of the Americans with Disabilities Act.

Permittee understands and agrees the Directors, officers, employees, and/or agents of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, are not personally responsible for any liability arising from or by virtue of this encroachment permit.

For the purpose of this section and all paragraphs herein, "State's contractors" includes contractors and their subcontractors under contract to the State and/or the Department performing work within the same postmile limits as the work under this encroachment permit.

This section and all paragraphs herein take effect upon issuance of this encroachment permit, and apply both during and after the work or other activity contemplated under this encroachment permit, except as otherwise provided by California law.

29. **NO PRECEDENT ESTABLISHED:** This encroachment permit is issued with the understanding that it does not establish a precedent.

30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**

a) As part of the consideration for being issued this encroachment permit, the permittee, on behalf of permittee and on behalf of permittee's personal representatives, successors in interest, and assigns, does hereby covenant and agree that:

- i. No person on the grounds of race, color, or national origin may be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
- ii. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination must be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
- iii. That such discrimination must not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the State highway right-of-way.
- iv. That the permittee must use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.

b) That in the event of breach of any of the above nondiscrimination covenants, the State and the Department have the right to terminate this encroachment permit and to re-enter and repossess said land and the facilities thereon, and hold the same as if said permit had never been made or issued.

31. **MAINTENANCE OF HIGHWAYS:** By accepting this encroachment permit, the permittee agrees to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.

32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code section 682.5, the Department is not responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State, the Department, and the Directors, officers, employees, agents, and

contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of any activity for which this encroachment permit is issued.


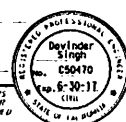
The permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the event, and further agrees to defend, indemnify, and save harmless the State and the Department, and the Directors, officers, and employees of the State and/or Department, including but not limited to the Director of the Department and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of or by virtue of the Americans with Disabilities Act.

33. **PRIVATE USE OF STATE HIGHWAY RIGHT-OF-WAY:** State highway right-of-way must not be used for private purposes without compensation to the State. The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.
34. **FIELD WORK REIMBURSEMENT:** Permittee must reimburse the Department for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or to clear refuse, debris, etc. not attended to by the permittee.
35. **NOTIFICATION OF CLOSURES TO DEPARTMENT AND TRAFFIC MANAGEMENT CENTER (TMC):** The permittee must notify the Department's representative and the Transportation Management Center (TMC) at least seven (7) days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur three (3) days before closure or other potential traffic impact. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative must be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, must immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension must be borne by the permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code section 4216 et. seq., including but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee must provide notification to the regional notification center at least forty-eight (48) hours

before performing any excavation work within the State highway right-of-way.

38. **COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA):** All work within the State highway right-of-way to construct and/or maintain any public facility must be designed, maintained, and constructed strictly in accordance with all applicable Federal Access laws and regulations (including but not limited to Section 504 of the Rehabilitation Act of 1973, codified at 29 U.S.C. § 794), California Access laws and regulations relating to ADA, along with its implementing regulations, Title 28 of the Code of Federal Regulations Parts 35 and 36 (28 C.F.R., Ch. I, Part 35, § 35.101 et seq., and Part 36, § 36.101 et seq.), Title 36 of the Code of Federal Regulations Part 1191 (36 C.F.R., Ch. XI, Part 1191, § 1119.1 et seq.), Title 49 of the Code of Federal Regulations Part 37 (49 C.F.R., Ch. A, Part 37, § 37.1 et seq.), the United States Department of Justice Title II and Title III for the ADA, and California Government Code section 4450 et seq., which require public facilities be made accessible to persons with disabilities.

Notwithstanding the requirements of the previous paragraph, all construction, design, and maintenance of public facilities must also comply with the Department's Design Information Bulletin 82, "Pedestrian Accessibility Guidelines for Highway Projects."

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
 REGISTERED CIVIL ENGINEER					
January 20, 2017 PLANS APPROVAL DATE					
					
FOR STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPY'S OF THIS PLAN SHEET.					

TO ACCOMPANY PLANS DATED _____

TABLE 1

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed 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

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

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

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
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	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
FOR LANE AND RAMP CLOSURES**

NO SCALE

RSP T9 DATED JANUARY 20, 2017 SUPERSEDES STANDARD PLAN T9
DATED OCTOBER 30, 2015 - PAGE 249 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T9

2015 REVISED STANDARD PLAN RSP T9

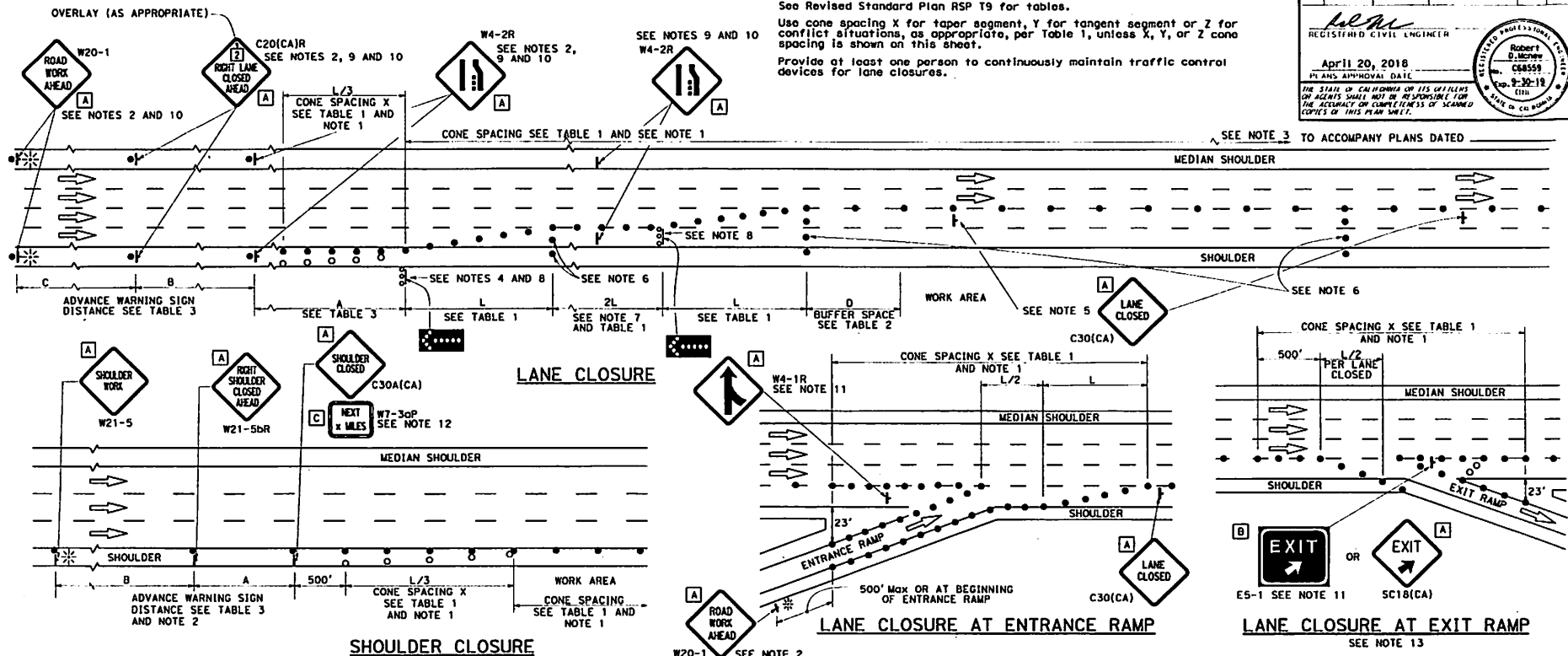
DIST.	COUNTY	ROUTE	POST MILES	SHEET	TOTAL
			TOTAL PROJECT	NO.	SHEETS

REGISTERED CIVIL ENGINEER
Robert D. McGee
C68558
Exp. 9-30-19
EITB
STATE OF CALIFORNIA

April 20, 2018
IN ANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:
See Revised Standard Plan RSP T9 for tables.
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
Provide at least one person to continuously maintain traffic control devices for lane closures.



NOTES:

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
4. A minimum 1500' sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place a C30(CA) sign every 1000' throughout length of lane closure.
6. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 1000' as shown on the "Lane Closure" detail. Two type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
7. The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
8. Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be type I.
9. Median lane closures shall conform to the details as shown except that C20(CA) and W4-2L signs shall be used.
10. Duplicate sign installations are not required:
 - a) on opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) in the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
11. The E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
12. A W7-3aP "NEXT MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.
13. For the warning sign requirements at the Exit Ramp, when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ FLASHING ARROW SIGN (FAS)
- ☁ FAS SUPPORT OR TRAILER
- ☁ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
FREEWAYS AND EXPRESSWAYS**
NO SCALE

RSP T10 DATED APRIL 20, 2018 SUPERSEDES RSP T10 DATED JANUARY 20, 2017 AND STANDARD PLAN T10 DATED OCTOBER 30, 2015 - PAGE 250 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T10

2015 REVISED STANDARD PLAN RSP T10

NOTES:

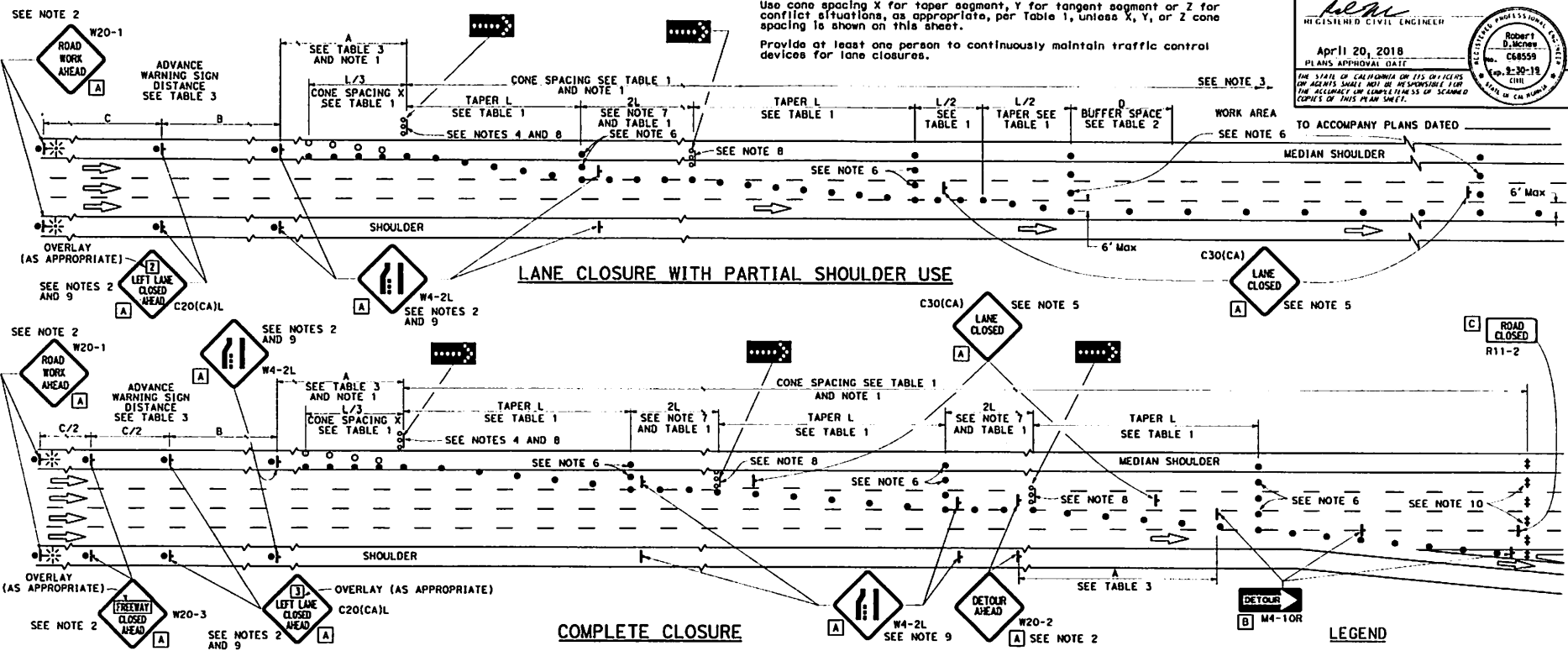
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.

Dist.	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	No. SHEETS

April 20, 2018
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NOTES:

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
4. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place a C30(CA) sign every 1000' throughout length of lane closure.

6. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 1000' as shown on the "Lane Closure with Partial Shoulder Use" detail. Two type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
7. The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
8. Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be type I.
9. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details shown except that C20(CA)R and W4-2R signs shall be used.
10. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ↓ TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

RSP T10A DATED APRIL 20, 2015 SUPERSEDES STANDARD PLAN T10A
DATED OCTOBER 30, 2015 - PAGE 251 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T10A

2015 REVISED STANDARD PLAN RSP T10A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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R.M.
REGISTERED CIVIL ENGINEER

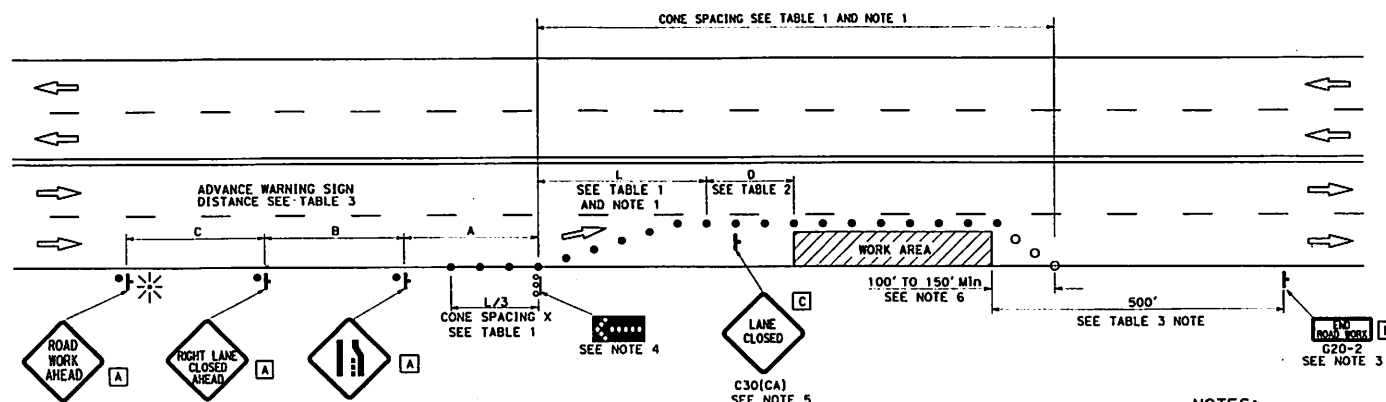
April 20, 2018
PLANS APPROVAL DATE

Robert D. McNew
C68559
Exp. 9-30-19
C.E.T.
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED _____

2015 REVISED STANDARD PLAN RSP T11



TYPICAL LANE CLOSURE

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Provide at least one person to continuously maintain traffic control devices for lane closures.

NOTES:

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
4. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
6. Length may be reduced by the Engineer to address site conditions.
7. Median lane closures shall conform to the details shown except that C20(CA)1 and W4-2L signs shall be used.
8. For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**
NO SCALE

RSP T11 DATED APRIL 20, 2018 SUPERSEDES STANDARD PLAN T11
DATED OCTOBER 30, 2015 - PAGE 252 OF THE STANDARD PLANS BOOK DATED 2015.
REVISED STANDARD PLAN RSP T11

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⬇ FLASHING ARROW SIGN (FAS)
- ☁ FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Provide at least one person to continuously maintain traffic control devices for lane closures.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

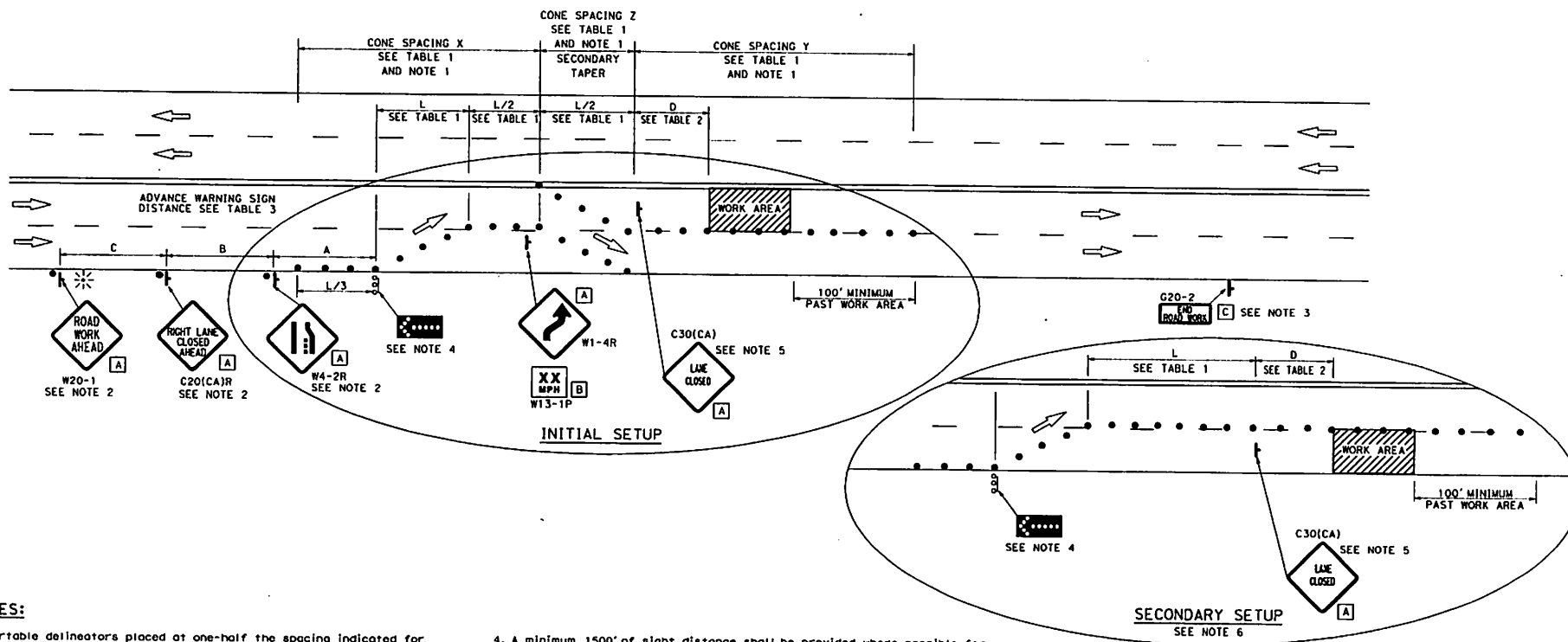
Robert J. McNew
 REGISTERED CIVIL ENGINEER
 No. 9-30-18
 C68559
 STATE OF CALIFORNIA

April 20, 2018
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED _____

TYPICAL CHANGEABLE LANE CLOSURE



NOTES:

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacon shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
4. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
6. Relocate secondary taper to tangent location and relocate C30(CA) sign. Remove W1-4R/W13-1P sign package.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR CHANGEABLE LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**
 NO SCALE
 RSP T11A DATED APRIL 20, 2018 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2015.
REVISED STANDARD PLAN RSP T11A

2015 REVISED STANDARD PLAN RSP T11A

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⬇️ FLASHING ARROW SIGN (FAS)
- ⊥ FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

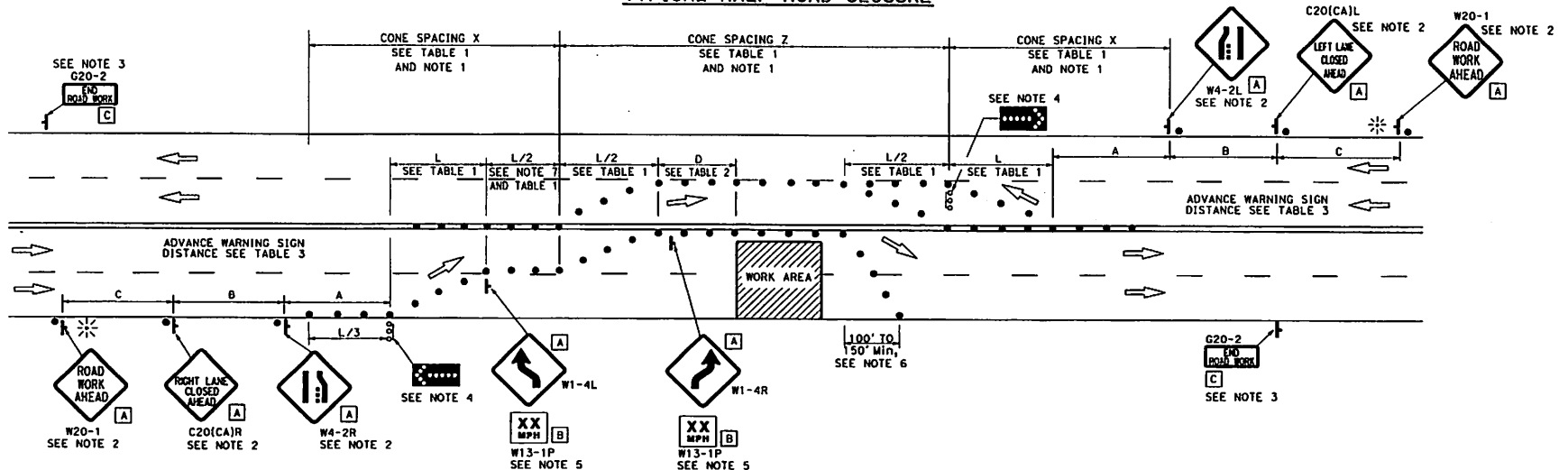
See Revised Standard Plan RSP T9 for tables.
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
Provide at least one person to continuously maintain traffic control devices for lane closures.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Robert D. McNeil
 C68559
 April 20, 2018
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED _____

TYPICAL HALF ROAD CLOSURE



NOTES:

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
4. A minimum 1500' sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest verticle curve or on a horizontal curve.
5. Advisory speed will be determined by the Engineer, The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
6. Length may be reduced by the Engineer to address site conditions.
7. The tangent (L/2) shall be used.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR HALF ROAD CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 20, 2018 SUPERSEDES STANDARD PLAN T12
DATED OCTOBER 30, 2015 - PAGE 253 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T12

2015 REVISED STANDARD PLAN RSP T12

NOTES:

See Revised Standard Plan RSP T9 for tables.

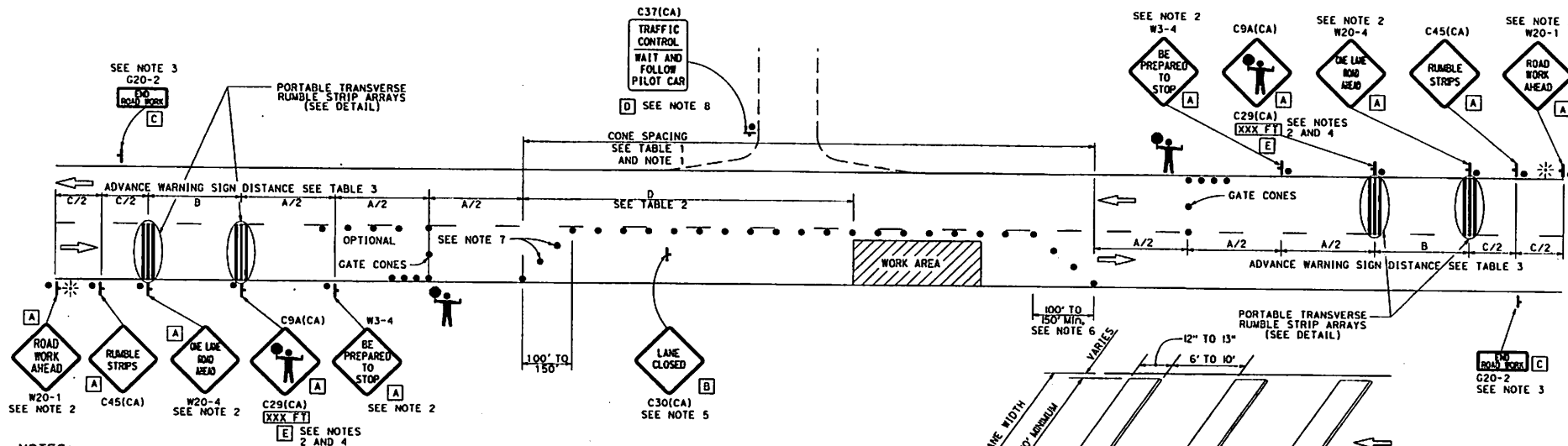
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.

Dist	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

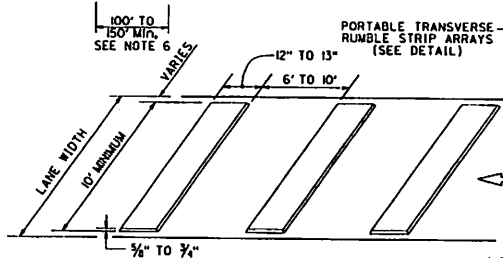
REGISTERED CIVIL ENGINEER
April 20, 2018
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



NOTES:

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area. They are optional if the work area is visible from the flagger station.
- Length may be reduced by the Engineer to address site conditions.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within the traffic control area.



PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- 👤 FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 20, 2018 SUPERSEDES STANDARD PLAN T13 DATED OCTOBER 30, 2015 - PAGE 254 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T13

2015 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ✱ PORTABLE FLASHING BEACON

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

Apr 20, 2018
PLANS APPROVAL DATE

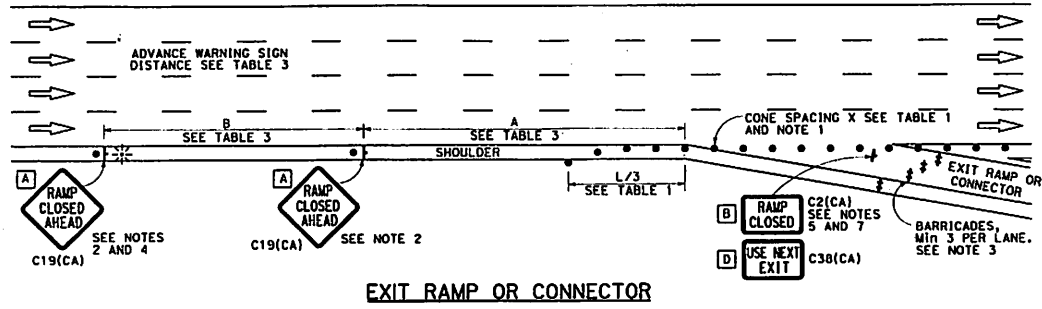
THE STATE OF CALIFORNIA AND ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

APR 20 2018
CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
Robert D. Stryker
C68559
Exp. 8-30-19
C.E.

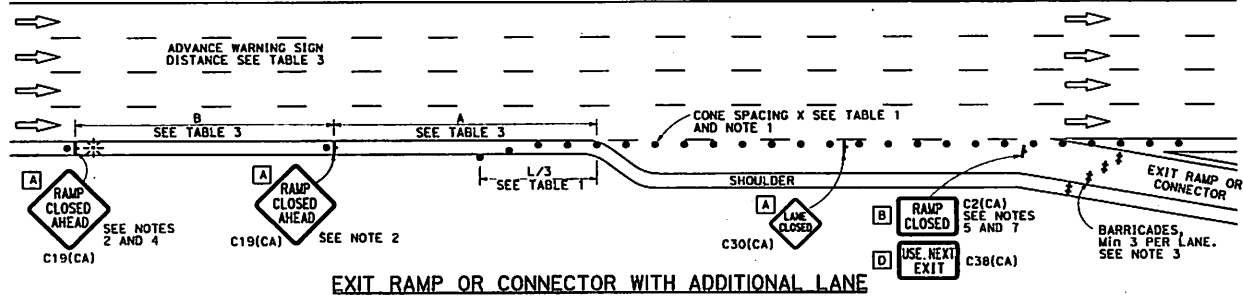
TO ACCOMPANY PLANS DATED _____

NOTES:

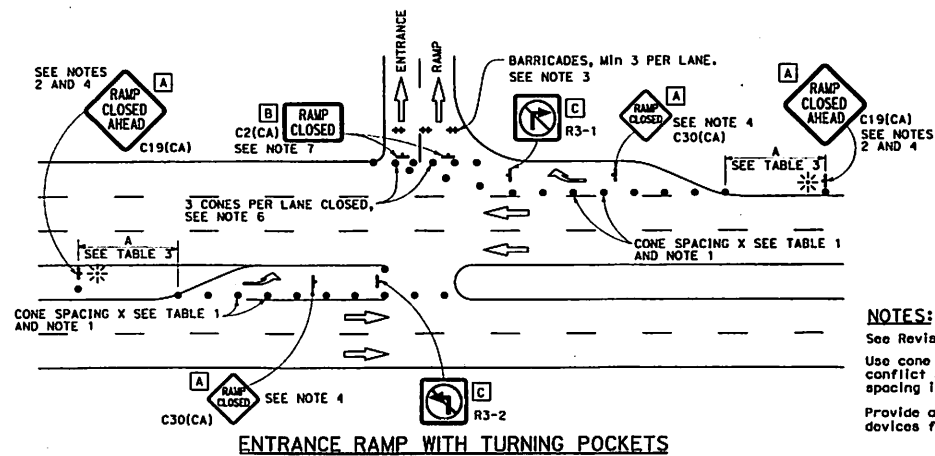
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- Barricades shall be Type I, II or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, block on orange overlay plates with the word "closed" may be mounted. As directed by the Engineer on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.
- C2(CA) sign shall be black and white.



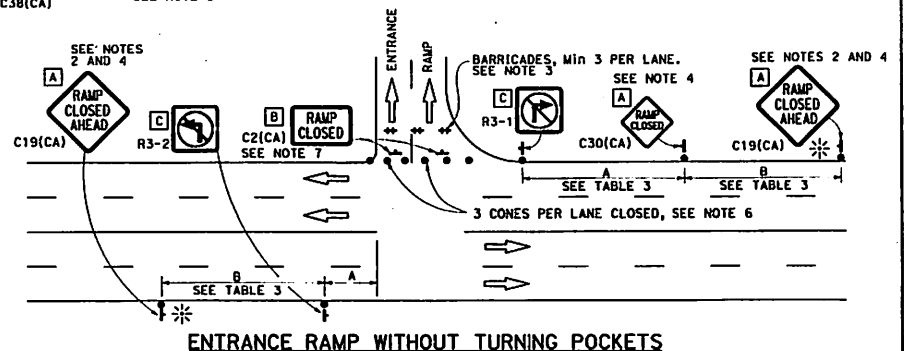
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Provide at least one person to continuously maintain traffic control devices for lane closures.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURE**
NO SCALE

RSP T14 DATED APRIL 20, 2016 SUPERSEDES STANDARD PLAN T14
DATED OCTOBER 30, 2015 - PAGE 255 OF THE STANDARD PLANS BOOK DATED 2015.
REVISED STANDARD PLAN RSP T14

2015 REVISED STANDARD PLAN RSP T14

**EBBETTS PASS REACH 1
WATER TRANSMISSION PIPELINE PROJECT # 11085
CALAVERAS COUNTY, CALIFORNIA**

90% Submittal

TREES TO BE REMOVED

TREE* #	COMMON NAME	SPECIES	MULTI- STEMS (inches)	TOTAL DBH INCHES	DLR (feet)	CONDITIONAL ASSESSMENT		
						STRUCTURE	VIGOR	
2	Ponderosa Pine	(<i>Pinus ponderosa</i>)		12	12	Fair	Fair	
12	Ponderosa Pine	(<i>Pinus ponderosa</i>)		5	6	Fair	Fair	
13	Ponderosa Pine	(<i>Pinus ponderosa</i>)		7	7	Fair	Fair	
57	Ponderosa Pine	(<i>Pinus ponderosa</i>)		16	9	Fair	Fair	
58	Ponderosa Pine	(<i>Pinus ponderosa</i>)		13	9	Poor to fair	Fair	
181	Incense Cedar	(<i>Calocedrus decurrens</i>)		36	19	Fair	Fair	
182	Ponderosa Pine	(<i>Pinus ponderosa</i>)		41	28	Fair	Fair	
203	Ponderosa Pine	(<i>Pinus ponderosa</i>)		31	26	Fair	Fair	
240	Ponderosa Pine	(<i>Pinus ponderosa</i>)		4	7	Fair	Fair	
241	Ponderosa Pine	(<i>Pinus ponderosa</i>)		4	7	Fair	Fair	
243	Ponderosa Pine	(<i>Pinus ponderosa</i>)		4	5	Fair	Fair	
256	Ponderosa Pine	(<i>Pinus ponderosa</i>)		30	26	Fair	Fair	
257	Incense Cedar	(<i>Calocedrus decurrens</i>)		7	8	Fair	Fair	
258	Ponderosa Pine	(<i>Pinus ponderosa</i>)		18	20	Fair	Fair	
260	Incense Cedar	(<i>Calocedrus decurrens</i>)		13	14	Poor to fair	Fair	
261	Incense Cedar	(<i>Calocedrus decurrens</i>)		8	8	Poor to fair	Fair	
273	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	6	Fair	Fair	
274	Incense Cedar	(<i>Calocedrus decurrens</i>)		4	3	Fair	Poor to fair	
275	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	7	Fair	Poor to fair	
276	Incense Cedar	(<i>Calocedrus decurrens</i>)		20	17	Poor	Fair	
287	Incense Cedar	(<i>Calocedrus decurrens</i>)		25	23	Fair	Fair	
288	Incense Cedar	(<i>Calocedrus decurrens</i>)		16	15	Fair	Fair	
289	Redbud	(<i>Cercis canadensis</i>)	2,3,4,5,6	20	12	Fair	Fair	
290	Incense Cedar	(<i>Calocedrus decurrens</i>)		21	21	Fair	Fair	
295	Incense Cedar	(<i>Calocedrus decurrens</i>)		21	20	Fair	Fair	
358	Ponderosa Pine	(<i>Pinus ponderosa</i>)		10	9	Fair	Fair	
368	Ponderosa Pine	(<i>Pinus ponderosa</i>)		6	6	Fair	Fair	
374	Ponderosa Pine	(<i>Pinus ponderosa</i>)		13	15	Fair	Fair	
375	Ponderosa Pine	(<i>Pinus ponderosa</i>)		5	4	Poor to fair	Poor to fair	
378	Incense Cedar	(<i>Calocedrus decurrens</i>)		8	8	Fair	Fair	
379	Ponderosa Pine	(<i>Pinus ponderosa</i>)		5	6	Fair	Fair	
388	Ponderosa Pine	(<i>Pinus ponderosa</i>)		7	8	Fair	Fair	
390	Incense Cedar	(<i>Calocedrus decurrens</i>)		21	23	Fair	Fair	
392	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	8	Poor to fair	Fair	
399	Incense Cedar	(<i>Calocedrus decurrens</i>)		6	7	Fair	Fair	
400	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	6	Fair	Fair	
401	Incense Cedar	(<i>Calocedrus decurrens</i>)		8	9	Poor to fair	Fair	
402	Incense Cedar	(<i>Calocedrus decurrens</i>)		4	6	Poor to fair	Poor to fair	
403	Incense Cedar	(<i>Calocedrus decurrens</i>)		6	7	Fair	Fair	
404	Incense Cedar	(<i>Calocedrus decurrens</i>)		6	6	Fair	Fair	
405	Incense Cedar	(<i>Calocedrus decurrens</i>)		14	15	Fair	Fair	
406	Incense Cedar	(<i>Calocedrus decurrens</i>)		6	6	Fair	Fair	
467	Ponderosa Pine	(<i>Pinus ponderosa</i>)		24	24	Fair	Fair	
468	Ponderosa Pine	(<i>Pinus ponderosa</i>)		25	26	Fair	Fair	
471	Ponderosa Pine	(<i>Pinus ponderosa</i>)		13	16	Fair	Fair	
473	Ponderosa Pine	(<i>Pinus ponderosa</i>)		24	23	Fair	Fair	
474	Ponderosa Pine	(<i>Pinus ponderosa</i>)		15	16	Fair	Fair	
475	Ponderosa Pine	(<i>Pinus ponderosa</i>)		10	14	Fair	Fair	
476	Ponderosa Pine	(<i>Pinus ponderosa</i>)		15	16	Fair	Fair	
486	Ponderosa Pine	(<i>Pinus ponderosa</i>)		14	16	Fair	Fair	
487	Ponderosa Pine	(<i>Pinus ponderosa</i>)		16	15	Fair	Fair	
488	Ponderosa Pine	(<i>Pinus ponderosa</i>)		14	15	Fair	Fair	
489	Ponderosa Pine	(<i>Pinus ponderosa</i>)		19	22	Fair	Fair	

**EBBETTS PASS REACH 1
WATER TRANSMISSION PIPELINE PROJECT # 11085
CALAVERAS COUNTY, CALIFORNIA**

90% Submittal

TREES TO BE REMOVED

TREE* #	COMMON NAME	SPECIES	MULTI- STEMS (inches)	TOTAL DBH INCHES	DLR (feet)	CONDITIONAL ASSESSMENT	
						STRUCTURE	VIGOR
490	Ponderosa Pine	(<i>Pinus ponderosa</i>)		16	16	Fair	Fair
491	Ponderosa Pine	(<i>Pinus ponderosa</i>)		18	17	Fair	Fair
492	Ponderosa Pine	(<i>Pinus ponderosa</i>)		19	18	Fair	Fair
501	Ponderosa Pine	(<i>Pinus ponderosa</i>)		18	17	Fair	Fair
504	Black Oak	(<i>Quercus velutina</i>)	3,4,4	11	15	Fair	Fair
506	Ponderosa Pine	(<i>Pinus ponderosa</i>)		18	17	Fair	Fair
507	Ponderosa Pine	(<i>Pinus ponderosa</i>)		16	17	Fair	Fair
510	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	6	Fair	Fair
511	Ponderosa Pine	(<i>Pinus ponderosa</i>)		20	22	Fair	Fair
513	Incense Cedar	(<i>Calocedrus decurrens</i>)		20	19	Fair	Fair
514	Ponderosa Pine	(<i>Pinus ponderosa</i>)		4	5	Fair	Fair
517	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	6	Fair	Fair
525	Black Oak	(<i>Quercus velutina</i>)		8	10	Fair	Fair
538	Incense Cedar	(<i>Calocedrus decurrens</i>)		10	10	Fair	Fair
552	Incense Cedar	(<i>Calocedrus decurrens</i>)		6	6	Fair	Fair
568	Incense Cedar	(<i>Calocedrus decurrens</i>)		19	16	Fair	Poor
569	Ponderosa Pine	(<i>Pinus ponderosa</i>)		23	20	Fair	Fair
592	Ponderosa Pine	(<i>Pinus ponderosa</i>)		20	24	Fair	Fair
662	Black Oak	(<i>Quercus velutina</i>)		8	15	Fair	Fair
665	Foothill Pine	(<i>Pinus sabiniana</i>)		14	15	Fair	Fair
691	Ponderosa Pine	(<i>Pinus ponderosa</i>)		6	7	Fair	Fair
720	Ponderosa Pine	(<i>Pinus ponderosa</i>)		17	17	Fair	Fair
721	Ponderosa Pine	(<i>Pinus ponderosa</i>)		22	20	Fair	Fair
722	Incense Cedar	(<i>Calocedrus decurrens</i>)	6,6,6	18	7	Fair	Fair
723	Incense Cedar	(<i>Calocedrus decurrens</i>)		7	7	Fair	Fair
724	Ponderosa Pine	(<i>Pinus ponderosa</i>)		17	16	Fair	Fair
725	Ponderosa Pine	(<i>Pinus ponderosa</i>)		7	6	Poor to fair	Poor
727	Ponderosa Pine	(<i>Pinus ponderosa</i>)		8	8	Fair	Fair
728	Ponderosa Pine	(<i>Pinus ponderosa</i>)	6,8	14	10	Fair	Fair
745	Incense Cedar	(<i>Calocedrus decurrens</i>)		17	15	Fair	Fair
844	Ponderosa Pine	(<i>Pinus ponderosa</i>)		7	7	Fair	Fair
849	Ponderosa Pine	(<i>Pinus ponderosa</i>)		5	5	Fair	Fair
851	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	3	Fair	Fair
852	Incense Cedar	(<i>Calocedrus decurrens</i>)		4	5	Fair	Fair
855	Incense Cedar	(<i>Calocedrus decurrens</i>)		33	25	Fair	Fair
939	Ponderosa Pine	(<i>Pinus ponderosa</i>)		18	20	Fair	Fair
940	Ponderosa Pine	(<i>Pinus ponderosa</i>)	13,16	29	17	Fair	Fair
947	Incense Cedar	(<i>Calocedrus decurrens</i>)		7	8	Fair	Fair
949	Black Oak	(<i>Quercus velutina</i>)	5,6	11	14	Fair	Fair
950	Black Oak	(<i>Quercus velutina</i>)		8	12	Fair	Fair
951	Ponderosa Pine	(<i>Pinus ponderosa</i>)		50	30	Fair	Fair
953	Ponderosa Pine	(<i>Pinus ponderosa</i>)		10	12	Fair	Fair
994	Incense Cedar	(<i>Calocedrus decurrens</i>)		4	5	Fair	Fair
1101	Ponderosa Pine	(<i>Pinus ponderosa</i>)		12	9	Poor to fair	Poor to fair
1104	California Black Walnut	(<i>Juglans californica</i>)		27	29	Fair	Fair
1145	Ponderosa Pine	(<i>Pinus ponderosa</i>)		27	22	Fair	Fair
1158	Ponderosa Pine	(<i>Pinus ponderosa</i>)		4	4	Fair	Fair
1160	Incense Cedar	(<i>Calocedrus decurrens</i>)		8	9	Fair	Fair
1161	Incense Cedar	(<i>Calocedrus decurrens</i>)		4	3	Fair	Poor to fair
1162	Ponderosa Pine	(<i>Pinus ponderosa</i>)		4	5	Fair	Fair
1164	Incense Cedar	(<i>Calocedrus decurrens</i>)		8	8	Fair	Fair
1170	Incense Cedar	(<i>Calocedrus decurrens</i>)		5	6	Fair	Fair

**EBBETTS PASS REACH 1
WATER TRANSMISSION PIPELINE PROJECT # 11085
CALAVERAS COUNTY, CALIFORNIA**

90% Submittal

TREES TO BE REMOVED

TREE* #	COMMON NAME	SPECIES	MULTI- STEMS (inches)	TOTAL DBH INCHES	DLR (feet)	CONDITIONAL ASSESSMENT		
						STRUCTURE	VIGOR	
1171	Incense Cedar	<i>(Calocedrus decurrens)</i>		6	6	Fair	Fair	
1172	Incense Cedar	<i>(Calocedrus decurrens)</i>		4	4	Fair	Fair	
1173	Black Oak	<i>(Quercus velutina)</i>		18	21	Poor to fair	Fair	
1175	Sugar Pine	<i>(Pinus lambertiana)</i>		5	5	Fair	Fair	
1181	Sugar Pine	<i>(Pinus lambertiana)</i>		6	6	Fair	Fair	
1182	Ponderosa Pine	<i>(Pinus ponderosa)</i>		4	5	Fair	Fair	
1183	Sugar Pine	<i>(Pinus lambertiana)</i>		7	8	Fair	Fair	
1185	Sugar Pine	<i>(Pinus lambertiana)</i>		5	5	Fair	Fair	
1186	Ponderosa Pine	<i>(Pinus ponderosa)</i>		9	9	Poor to fair	Poor to fair	
1188	Sugar Pine	<i>(Pinus lambertiana)</i>		7	8	Fair	Fair	
1189	Sugar Pine	<i>(Pinus lambertiana)</i>		8	8	Fair	Fair	
1195	Ponderosa Pine	<i>(Pinus ponderosa)</i>		8	9	Fair	Fair	
1196	Ponderosa Pine	<i>(Pinus ponderosa)</i>		5	5	Fair	Fair	
1197	Ponderosa Pine	<i>(Pinus ponderosa)</i>		7	8	Fair	Fair	
1198	Incense Cedar	<i>(Calocedrus decurrens)</i>		6	9	Fair	Fair	
1203	Incense Cedar	<i>(Calocedrus decurrens)</i>		4	10	Fair	Fair	
1205	Ponderosa Pine	<i>(Pinus ponderosa)</i>		11	13	Poor	Fair	
1207	Incense Cedar	<i>(Calocedrus decurrens)</i>		5	5	Fair	Fair	
1208	Ponderosa Pine	<i>(Pinus ponderosa)</i>		6	7	Fair	Fair	
1211	Incense Cedar	<i>(Calocedrus decurrens)</i>		4	5	Fair	Fair	
1216	Black Oak	<i>(Quercus velutina)</i>		7	14	Fair	Fair	
1217	Incense Cedar	<i>(Calocedrus decurrens)</i>		6	6	Fair	Fair	
1218	Incense Cedar	<i>(Calocedrus decurrens)</i>		4	4	Fair	Fair	
1230	Ponderosa Pine	<i>(Pinus ponderosa)</i>		13	12	Fair	Fair	
1231	Ponderosa Pine	<i>(Pinus ponderosa)</i>		4	5	Poor to fair	Fair	
1232	Ponderosa Pine	<i>(Pinus ponderosa)</i>		4	5	Fair	Fair	
1233	Ponderosa Pine	<i>(Pinus ponderosa)</i>		4	5	Fair	Fair	
1237	Ponderosa Pine	<i>(Pinus ponderosa)</i>		44	28	Fair	Fair	

* Square tags w/ orange flagging.

May 16, 2018



Mr. Paul Cavanaugh
Caltrans District 10
Encroachment Permits Office
paul.cavanaugh@dot.ca.gov

Subject: Ebbetts Pass Reach 1 Pipeline Project:

7777 Greenback Lane

Suite 104

Citrus Heights, CA

95610

Paul:

In response to your email of May 15 regarding trees in the Ebbetts Pass Reach 1 Corridor:

Tel. 916 / 722-1800

Fax 916 / 722-4595

Principal:

John C. Scroggs

PP: Ponderosa Pine
IC: Incense Cedar
BM: Blackleaf Maple
AS: American Sweetgum
BK: Black Oak
CLO: Canyon Live Oak
SP: Sugar Pine
FC: Fremont Cottonwood
DC: Deodar Cedar
CBW: California Black Walnut

Other tree abbreviations used by our arborist:

BLO: Black Oak
CB: California Buckeye
CBW: California Black Walnut
FP: Foothill Pine
MS: Multi Stem
NT: Not Tagged
PW: Pacific Willow
RB: Redbud
SM: Silver Maple
TH: Tree of Heaven
TO: Tan Oak
VO: Valley Oak
WF: White Fir

Trees to be removed, as shown on the 90% plan submittal, are included in the following list.

CIVIL

WATER RESOURCES

SURVEYING

We hope that this is of assistance. We will include the tree abbreviations and in subsequent plan submittals.

Very Truly Yours,



KASL Consulting Engineers

A handwritten signature in cursive script, appearing to read "John C. Scroggs", is written over the printed name.

John C. Scroggs

C C W D

Replace Reserved in section 12-4.02C(3)(k) with:

Comply with the requirements for the conventional highway lane closures shown in the following chart:

Chart No. K1 Conventional Highway Lane Requirements																																						
County: Calaveras										Route/Direction: 4/EB_WB										Post Mile:32.3/37.0																		
Closure limits: from 2700' west of Strawberry Hill Road to Hunter Dam Road																																						
Hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24													
Mon-Thu								R	R	R	R	R	R	R	R	R	R	R	R	R																		
Fri								R	R	R	R	R	R	R	R																							
Sat																																						
Sun																																						
Legend:																																						
<table border="0"> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">4</td> <td>Provide at least 1 through traffic lane open in the direction of travel.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">2</td> <td>Provide at least 2 adjacent through traffic lanes open in the direction of travel.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">3</td> <td>Provide at least 3 adjacent through traffic lanes open in the direction of travel.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">R</td> <td>Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel.(Reversing Control), or just shoulder closure only</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">S</td> <td>Shoulder closure is allowed. (right/left)</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; text-align: center;">N</td> <td>No work is allowed.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px;"></td> <td>Work is allowed within the highway where a shoulder or lane closure is not required.</td> </tr> </table>																									4	Provide at least 1 through traffic lane open in the direction of travel.	2	Provide at least 2 adjacent through traffic lanes open in the direction of travel.	3	Provide at least 3 adjacent through traffic lanes open in the direction of travel.	R	Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel.(Reversing Control), or just shoulder closure only	S	Shoulder closure is allowed. (right/left)	N	No work is allowed.		Work is allowed within the highway where a shoulder or lane closure is not required.
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	Work is allowed within the highway where a shoulder or lane closure is not required.																																					
REMARKS: Permit # 1018-NUK-0308 06/04/2018 1. See Lane Closure Restriction for Designated Holidays and Special Days table for additional closure restrictions. 2. Closures of local roads will require City/County concurrence.																																						

Note to Design:

Above window must be re-evaluated or updated if actual construction takes place later than 2019.

Caltrans Database of existing culverts inside the proposed construction limits
 (10-CAL-4-32.2/37.0)

Prior to construction, all existing culverts shall be marked at each locations and culvert depth, please make arrangement with the State Representative.

Culvert Assessment Report by Co, Rte, and PM

County: Calaveras Number of Culverts: 44
 Route: 4
 From Postmile 32.2 to Postmile 37.0

Assessment Score
 100 - 80 = No Deficiencies
 79 - 50 = Corrective Maintenance
 49 - 20 = Rehab/Replacements
 19 - 0 = Critical

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	32.33	2628	CSP	18	0	0	100	Do Nothing	0
<i>System No:</i>										
300044003233										
<i>End Treatment Information</i>										
		32.33		<i>Inlet End Treatment No:</i> 002				78	Do Nothing	0
		32.33		<i>Outlet End Treatment No:</i> 001				100	Do Nothing	0
<i>Culvert Notes:</i>										
Liner or replace culvert - Maintenance Engineers										
Calaveras	4	32.42	2628	CSP	30	0	0	5	Culvert Barrel Lining	0
<i>System No:</i>										
300044003242										
<i>End Treatment Information</i>										
		32.42		<i>Inlet End Treatment No:</i> 002				9	Vegetation Removal	0
		32.42		<i>Outlet End Treatment No:</i> 001				12	Culvert Barrel Lining	0
<i>Culvert Notes:</i>										
Liner or replace culvert - Maintenance Engineers										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	32.54	2628	CSP	24	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003254	32.54	Inlet End Treatment No: 002		ET Type: HW				41	Vegetation Removal	0
	32.54	Outlet End Treatment No: 001		ET Type: NET				20	Debris Removal	0
Culvert Notes:										
Calaveras	4	32.63	2628	Unkn	0	0	0	0	Other	0
System No:				End Treatment Information						
300040003263	32.63	Inlet End Treatment No: 002		ET Type: UNDET				0	Flush Sediment	0
	32.63	Outlet End Treatment No: 001		ET Type: UNDET				0	Vegetation Removal	0
Culvert Notes:										
Locato culvert - Maint - Vactor culvert - Vactor crew										
Calaveras	4	32.73	2628	CSP	30	0	0	38	Flush Sediment	0
System No:				End Treatment Information						
300040003273	32.73	Inlet End Treatment No: 002		ET Type: DI				62	Do Nothing	0
	32.73	Outlet End Treatment No: 001		ET Type: NET				32	Regrade Channel	0
Culvert Notes:										
Vactor culvert - Vactor crew										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	32.8	2628	CSP	24	0	0	0	Flush Sediment	0
System No:				End Treatment Information						
300040003280	32.8	Inlet End Treatment No: 002		ET Type: DI				32	Flush Sediment	0
	32.8	Outlet End Treatment No: 001		ET Type: NET				0	Regrade Channel	0
Culvert Notes: Vactor culvert - Vactor crew										
Calaveras	4	32.89	2628	CSP	30	0	0	63	Do Nothing	0
System No:				End Treatment Information						
300040003289	32.88	Inlet End Treatment No: 002		ET Type: HW				80	Do Nothing	0
	32.89	Outlet End Treatment No: 001		ET Type: NET				64	Vegetation Removal	0
Culvert Notes:										
Calaveras	4	33.01	2628	CSP	30	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003301	33.03	Inlet End Treatment No: 002		ET Type: HW				46	Vegetation Removal	0
	33.01	Outlet End Treatment No: 001		ET Type: NET				64	Vegetation Removal	0
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	33.16	2628	CSP	18	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300044003318	33.16	Inlet End Treatment No: 002		ET Type: HW				85	Do Nothing	0
	33.16	Outlet End Treatment No: 001		ET Type: NET				51	Do Nothing	0
Culvert Notes:										
Calaveras	4	33.29	2628	CSP	18	0	0	0	Flush Sediment	0
System No:				End Treatment Information						
300044003329	33.29	Inlet End Treatment No: 002		ET Type: HW				0	Debris Removal	0
	33.29	Outlet End Treatment No: 001		ET Type: NET				0	Vegetation Removal	0
Culvert Notes:										
Vactor culvert-vactor Crew										
Calaveras	4	33.58	2628	CSP	18	0	0	39	Culvert Barrel Lining	0
System No:				End Treatment Information						
300040003358	33.58	Inlet End Treatment No: 002		ET Type: HW				46	Debris Removal	0
	33.58	Outlet End Treatment No: 001		ET Type: NET				25	Culvert Barrel Lining	0
Culvert Notes:										
Culvert liner - Maintenance Engineers										

Location				Culvert Information				Culvert Assessment			
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By	
Calaveras	4	33.63	2628	CSP	30	0	0	14	Culvert Barrel Lining	0	
System No:				End Treatment Information							
300040003363		33.63		Inlet End Treatment No: 002				ET Type: DI_SO	34	Concrete Repair	0
		33.63		Outlet End Treatment No: 001				ET Type: NET	34	Vegetation Removal	0
Culvert Notes:				Culvert liner or replace culvert - Maintenance Engineers							
Calaveras	4	33.76	2628	CSP	18	0	0	57	Do Nothing	0	
System No:				End Treatment Information							
300040003376		33.76		Inlet End Treatment No: 002				ET Type: HW	65	Vegetation Removal	0
		33.76		Outlet End Treatment No: 001				ET Type: NET	46	Vegetation Removal	0
Culvert Notes:											
Calaveras	4	33.95	2628	CSP	24	0	0	57	Do Nothing	0	
System No:				End Treatment Information							
300040003395		33.95		Inlet End Treatment No: 002				ET Type: HW	65	Vegetation Removal	0
		33.95		Outlet End Treatment No: 001				ET Type: NET	46	Vegetation Removal	0
Culvert Notes:											

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	34.06	2628	CSP	24	0	0	33	Flush Sediment	0
System No:				End Treatment Information						
300040003406	34.05	Inlet End Treatment No: 002		ET Type: HW		0	Vegetation Removal		0	
	34.06	Outlet End Treatment No: 001		ET Type: NET		31	Vegetation Removal		0	
Culvert Notes: Vactor culvert - Vactor crew										
Calaveras	4	34.16	2628	CSP	30	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003416	34.16	Inlet End Treatment No: 002		ET Type: HW		80	Do Nothing		0	
	34.16	Outlet End Treatment No: 001		ET Type: NET		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	34.19	2628	CSP	18	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003419	34.19	Inlet End Treatment No: 002		ET Type: HW		80	Do Nothing		0	
	34.19	Outlet End Treatment No: 001		ET Type: NET		46	Vegetation Removal		0	
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	34.31	2628	CSP	24	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003431	34.31	Inlet End Treatment No: 002		ET Type: HW		80	Do Nothing		0	
	34.31	Outlet End Treatment No: 001		ET Type: NET		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	34.41	2628	CSP	24	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003441	34.41	Inlet End Treatment No: 002		ET Type: HW		80	Do Nothing		0	
	34.41	Outlet End Treatment No: 001		ET Type: NET		51	Vegetation Removal		0	
Culvert Notes:										
Calaveras	4	34.46	2628	CSP	36	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003446	34.46	Inlet End Treatment No: 002		ET Type: HW		80	Do Nothing		0	
	34.46	Outlet End Treatment No: 001		ET Type: NET		80	Do Nothing		0	
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	34.5	2628	CSP	18	0	0	38	Flush Sediment	0
System No:				End Treatment Information						
300048003450	34.51	Inlet End Treatment No: 002		ET Type: NET				65	Do Nothing	0
	34.5	Outlet End Treatment No: 001		ET Type: NET				0	Regrade Channel	0
Culvert Notes:										
Vector culvert - Vector crew										
Calaveras	4	34.63	2628	CSP	18	0	0	0	Flush Sediment	0
System No:				End Treatment Information						
300040003463	34.63	Inlet End Treatment No: 002		ET Type: HW				19	Flush Sediment	0
	34.63	Outlet End Treatment No: 001		ET Type: NET				8	Regrade Channel	0
Culvert Notes:										
Vector culvert - Vector crew										
Calaveras	4	34.73	2628	CSP	36	0	0	65	Do Nothing	0
System No:				End Treatment Information						
300040003473	34.73	Inlet End Treatment No: 003		ET Type: MH				80	Do Nothing	0
	34.73	Outlet End Treatment No: 002		ET Type: MH				80	Do Nothing	0
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	34.73	2628	CSP	36	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003473	34.73	Inlet End Treatment No: 002		ET Type: MH		80	Do Nothing		0	
	34.73	Outlet End Treatment No: 001		ET Type: NET		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	34.73	2628	CSP	36	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003473	34.73	Inlet End Treatment No: 004		ET Type: FES		80	Do Nothing		0	
	34.73	Outlet End Treatment No: 003		ET Type: MH		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	34.73	2628	CSP	12	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003473	34.72	Inlet End Treatment No: 005		ET Type: OD		80	-1		0	
	34.73	Outlet End Treatment No: 002		ET Type: MH		80	Do Nothing		0	
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	34.75	2628	CSP	30	0	0	84	Do Nothing	0
System No:				End Treatment Information						
300040003475	34.75	Inlet End Treatment No: 003		ET Type: MH				80	Do Nothing	0
	34.75	Outlet End Treatment No: 002		ET Type: MH				80	Do Nothing	0
Culvert Notes: Heavy rust in the invert & spring line to spring line.										
Calaveras	4	34.75	2628	CSP	30	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003475	34.75	Inlet End Treatment No: 002		ET Type: MH				80	Do Nothing	0
	34.75	Outlet End Treatment No: 001		ET Type: FES				80	Do Nothing	0
Culvert Notes:										
Calaveras	4	34.75	2628	CSP	30	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003475	34.75	Inlet End Treatment No: 004		ET Type: DI_SO				80	Do Nothing	0
	34.75	Outlet End Treatment No: 003		ET Type: MH				80	Do Nothing	0
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	34.75	2628	CSP	30	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003475	34.75	Inlet End Treatment No: 005		ET Type: DI_SO		80	Do Nothing		0	
	34.75	Outlet End Treatment No: 004		ET Type: DI_SO		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	34.83	2628	CSP	18	0	0	60	Do Nothing	0
System No:				End Treatment Information						
300040003483	34.83	Inlet End Treatment No: 003		ET Type: HW		38	Debris Removal		0	
	34.83	Outlet End Treatment No: 002		ET Type: MH		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	34.83	2628	CSP	36	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003483	34.83	Inlet End Treatment No: 002		ET Type: MH		80	Do Nothing		0	
	34.83	Outlet End Treatment No: 001		ET Type: NET		80	Do Nothing		0	
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	35.45	2628	CSP	24	0	0	65	Do Nothing	0
System No:				End Treatment Information						
300040003545	35.45	Inlet End Treatment No: 002		ET Type: HW				60	Do Nothing	0
	35.45	Outlet End Treatment No: 001		ET Type: NET				41	Vegetation Removal	0
Culvert Notes:										
Calaveras	4	35.63	2628	CSP	18	0	0	11	Replace	0
System No:				End Treatment Information						
300040003563	35.63	Inlet End Treatment No: 002		ET Type: HW				24	Do Nothing	0
	35.63	Outlet End Treatment No: 001		ET Type: NET				82	Do Nothing	0
Culvert Notes: Replace culvert-maint engineers										
Calaveras	4	35.8	2628	CSP	18	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003580	35.8	Inlet End Treatment No: 002		ET Type: DL,SO				65	Do Nothing	0
	35.8	Outlet End Treatment No: 001		ET Type: NET				80	Do Nothing	0
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	36.1	2628	CSP	24	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003610	36.1	Inlet End Treatment No: 002		ET Type: HW				65	Do Nothing	0
	36.1	Outlet End Treatment No: 001		ET Type: NET				80	Do Nothing	0
Culvert Notes:										
Calaveras	4	36.16	2628	CSP	18	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300040003616	36.16	Inlet End Treatment No: 002		ET Type: UNDET				Not Evaluated	Debris Removal	0
	36.16	Outlet End Treatment No: 001		ET Type: UNDET				45	Vegetation Removal	0
Culvert Notes:										
Calaveras	4	36.51	2628	CSP	18	0	0	27	Flush Sediment	0
System No:				End Treatment Information						
300040003851	36.51	Inlet End Treatment No: 002		ET Type: DI				63	Do Nothing	0
	36.51	Outlet End Treatment No: 001		ET Type: NET				5	Flush Sediment	0
Culvert Notes: Vactor sediment -Vactor Crew										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	36.54	2628	CSP	18	0	0	46	Flush Sediment	0
System No:				End Treatment Information						
300044003654	36.54	Inlet End Treatment No: 002		ET Type: NET		80	Do Nothing		0	
	36.54	Outlet End Treatment No: 001		ET Type: UNDET		0	Debris Removal		0	
Culvert Notes:				Vector sediment - Vector Crew						
Calaveras	4	36.68	2628	CSP	24	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300044003668	36.68	Inlet End Treatment No: 002		ET Type: HW		43	Vegetation Removal		0	
	36.68	Outlet End Treatment No: 001		ET Type: NET		80	Do Nothing		0	
Culvert Notes:										
Calaveras	4	36.77	2628	CSP	18	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300044003677	36.77	Inlet End Treatment No: 002		ET Type: HW		46	Vegetation Removal		0	
	36.77	Outlet End Treatment No: 001		ET Type: NET		46	Vegetation Removal		0	
Culvert Notes:										

Location				Culvert Information				Culvert Assessment		
County	Route	Postmile	Cost Center	Type	Dia. (in)	Height (in)	Width (in)	Assessment Score	Inspector's Recommendations	Completed By
Calaveras	4	36.88	2628	CSP	18	0	0	27	Replace a Section	0
System No:				End Treatment Information						
300044003688	36.88	Inlet End Treatment No: 002		ET Type: HW				65	Do Nothing	0
	36.88	Outlet End Treatment No: 001		ET Type: NET				80	Do Nothing	0
Culvert Notes: Replace section of pipe - Maint Engineering										
Calaveras	4	36.92	2628	CSP	18	0	0	80	Do Nothing	0
System No:				End Treatment Information						
300044003692	36.92	Inlet End Treatment No: 002		ET Type: NET				80	Do Nothing	0
	36.92	Outlet End Treatment No: 001		ET Type: NET				46	Vegetation Removal	0
Culvert Notes:										
Calaveras	4	37	2628	CSP	18	0	0	46	Flush Sediment	0
System No:				End Treatment Information						
300044003700	37	Inlet End Treatment No: 002		ET Type: DI				63	Do Nothing	0
	37	Outlet End Treatment No: 001		ET Type: NET				65	Do Nothing	0
Culvert Notes: Vactor sediment - Vactor Crew										