

## California Department of Transportation

ENCROACHMENT PERMIT OFFICE  
50 HIGUERA STREET | SAN LUIS OBISPO, CA 93401-5415  
PHONE (805) 549-3152 | FAX (805) 549-3062 | TTY 711  
<http://www.dot.ca.gov/dist05>



February 9, 2022

05-SLO-VAR-VAR  
0522 NUE 0034

County of San Luis Obispo Public Works Department  
Attn: John Diodati  
County Government Center, Room 206  
San Luis Obispo, CA 93408

Dear Mr. Diodati:

Attached is your approved encroachment permit. **DO NOT BEGIN WORK UNTIL YOU HAVE FIRST READ THE PERMIT CAREFULLY AND COMPLETELY AND CONTACTED THE STATE INSPECTOR LISTED ON YOUR PERMIT.**

**This permit is a legal and binding contract once work on it has begun.** You are subject to the provisions contained in the permit and in the attached Encroachment Permit General Provisions. If there is any question regarding interpretation of any detail in the permit or the General Provisions, you may contact the inspector listed on your permit or our office at (805) 549-3152. Thank you in advance for your cooperation.

Pursuant to the Executive Department, State of California, Proclamation of a State of Emergency, signed on October 27, 2019, and under the direction of the Office of Emergency Services and the State Emergency Plan, work authorized by this permit will be suspended when a planned Public Safety Power Shutoff (PSPS) notification is in effect. Unless Permittee has obtained special approval from the Director of Caltrans or his assigns to work during a PSPS event, Permittee must stop work and make all traveled ways and roadsides safe for public travel and emergency services if notified by the Director of Caltrans or his assigns.

Sincerely,

A handwritten signature in blue ink that reads 'Eileen Stephens'.

Eileen Stephens, PE, QSD/P  
District Permit Engineer

**ENCROACHMENT PERMIT**

TR-0120 (REV. 6/2012)

Permit No.

**0522 NUE 0034**

In compliance with (Check one):

- Your application of January 18, 2022
- Utility Notice No. \_\_\_\_\_ of \_\_\_\_\_
- Agreement No. \_\_\_\_\_ of \_\_\_\_\_
- R/W Contract No. \_\_\_\_\_ of \_\_\_\_\_

Dist/Co/Rte/PM

05-SLO-VAR-VAR

Date

**February 9, 2022**

Fee Paid

EXEMPT

Deposit

Performance Bond Amount (1)

Payment Bond Amount (2)

Bond Company

Bond Number (1)

Bond Number (2)

**TO: County of San Luis Obispo Public Works Department**

Attn: John Diodati  
 County Government Center, Room 206  
 San Luis Obispo, CA 93408

Phone: (805)781-5252  
 Permittee's Reference No. \_\_\_\_\_

\_\_\_\_\_, PERMITTEE

**and subject to the following, PERMISSION IS HEREBY GRANTED to:**

General annual maintenance permit for existing County of San Luis Obispo Public Works utilities and owned facilities in Caltrans conventional highways rights of way as allowed by the Caltrans Permit Inspector and as directed by the permit provisions in various State Routes and postmiles in the County of San Luis Obispo.

Page 1 of 32

**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):

- Yes  No General Provisions (TR-0045)
- Yes  No Utility Maintenance Provisions
- Yes  No Special Provisions
- Yes  No A Cal-OSHA permit, if required: Permit No. \_\_\_\_\_
- Yes  No As-Built Plans Submittal Route Slip for Locally Advertised Projects
- Yes  No Std. Storm Water Pollution Prevention Special Provisions
- Yes  No The information in the environmental documentation has been reviewed and is considered prior to approval of this permit.

In addition to fee, the Permittee will be billed actual costs for:

- Yes  No Review
- Yes  No Inspection
- Yes  No Field Work  
 (If any Caltrans effort expended)

This permit is void unless the work is completed before

**February 11, 2023**

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.**

cc:  
 Permit File  
 Romano Verlengia-D.O. Mailroom slot (Insp.)  
 Jim McKrell – Whitley Gardens RE Office  
 Cindy Knoeck-D.O.  
 Cody Collins – Templeton Maint.

APPROVED:

TIMOTHY M. GUBBINS, District Director

BY:



Eileen Stephens, PE, QSD/P, District Permit Engineer

AK

**STATE PERMIT INSPECTOR**

Unless approved otherwise by the State Permit Inspector, **Permittee must contact the State Permit Inspector listed below, at the following times, before starting work in the State right of way:**

- **A minimum of two weeks** prior to commencing work for a pre-job meeting to discuss permit provisions, notification requirements, and scheduling.
- **A minimum of two working days** prior to commencing work.

|  |                               |
|--|-------------------------------|
| <b>State Permit Inspector:</b> as shown on map | <b>Phone:</b> as shown on map |
| <b>Email:</b> as shown on map                  | <b>Fax:</b> as shown on map   |

Notification requirements that will impact your work schedule:

1. **Changes to horizontal or vertical clearances;** minimum of 25-day advance notification.
2. **Lane closures;** completed "Weekly Traffic Update" form must be submitted by noon the Tuesday prior to date of proposed lane closure.
3. **Public Affairs;** completed "Public Affairs – Permitted Activity Notification" form must be submitted by noon the Wednesday prior to begin activity date.
4. When work has been interrupted for more than five working days, the Permittee must notify the Caltrans Permit Inspector a minimum of two working days prior to **restarting work**.

This issued encroachment permit is void unless the permitted activity or construction is completed by the void date shown on page 1 of this encroachment permit. The Permittee is solely responsible to keep track of the permit void date. All requests to extend this void date must be received by the District 5 Encroachment Permits Office while the encroachment permit is valid. Request for an extension received after the permit void date cannot be processed.

Pursuant to the Executive Department, State of California, Proclamation of a State of Emergency, signed on October 27, 2019, and under the direction of the Office of Emergency Services and the State Emergency Plan, work authorized by this permit will be suspended when a planned Public Safety Power Shutoff (PSPS) notification is in effect. Unless Permittee has obtained special approval from the Director of Caltrans or his assigns to work during a PSPS event, Permittee must stop work and make all traveled ways and roadsides safe for public travel and emergency services if notified by the Director of Caltrans or his assigns.

### **ADDITIONAL ATTACHMENTS**

- PUBLIC AFFAIRS PROJECT NOTIFICATION
- WEEKLY TRAFFIC UPDATE
- CALTRANS STANDARD PLANS T9-T14, T30-T34
- FORM DC-CEM-3101
- PEDESTRIAN SAFETY (MCP)
- SIDEWALKS (CS)
- STEEL PLATE BRIDGING UTILITY
- SURVEYS (SV)
- TRAFFIC STRIPING, MARKERS, AND SIGNS
- TREE PRUNING (TRIMMING) AND CHEMICAL APPLICATION
- UTILITY ANNUAL PROVISIONS
- UTILITY OVERHEAD PROVISIONS (OH)
- UTILITY UNDERGROUND PROVISIONS (UG)
- Other:
  - Encroachment Permit Trench Detail (TR-0153)
  - Certification of Compliance with Americans with Disabilities Act (ADA) (TR-0405)
  - Permit Inspector Territories Map and Contact Information
  - Limits of Grind and Overlay for Pavement Replacement
  - Typical Temporary Sign Support Details
  - Typical Portable Changeable Message Sign Placement
  - Notice of Completion TR-0128

### **PLANS AND SPECIFICATIONS**

If conflicts arise between Special Provisions, Plans, Caltrans Standard Plans, Standard Specifications, or other Caltrans standards, the Caltrans Inspector shall make the final determination regarding selection or interpretation of standards and/or specifications. State Standards and Specifications must apply to all work within the State right of way unless directed otherwise by the State Inspector. Reference to the Engineer in the State Standard Specifications must include the State Representative (Caltrans Permit Inspector or District Permit Engineer).

Attention is directed to Section 5 of the current State Standard Specifications and the Encroachment Permit General Provisions (TR-0045) regarding control of work and permit work plan revisions. Additionally, the State Permit Inspector may require reasonable additions, modifications, or revisions to the scope of work at no cost to the State if the change is in the best interest of the State facility where the encroachment permit is being granted and Caltrans policy, Standard Specifications, or Permit Provisions are unclear.

### **WORK HOURS**

Work authorized by this permit that does not restrict or close any traffic lane may be performed on weekdays between the hours of 9:00 AM and 3:00 PM.

Traffic lane restrictions or closures:

**Hours to be determined by the Caltrans Permit Inspector based on location of work.**

**Work and lane closure restrictions will apply prior to and after a holiday or holiday weekend as determined by the District 5 Traffic Management Center.**

**Designated legal holidays are:**

January 1<sup>st</sup> - (New Year's Day), the third Monday in January - (Martin Luther King Jr. Day)

The third Monday in February - (Washington's Birthday)

March 31<sup>st</sup> - (Cesar Chavez's Day)

The last Monday in May - (Memorial Day)

July 4<sup>th</sup> - (Independence Day)

The first Monday in September - (Labor Day)

November 11<sup>th</sup> - (Veteran's Day), 4<sup>th</sup> Thursday and Friday in November - (Thanksgiving Holiday)

December 25<sup>th</sup> - (Christmas Day)

When a designated legal holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When November 11th falls on a Saturday, Friday November 10th shall be a designated legal holiday.

The State Inspector must approve deviations from these hours in advance.

**All work that will impact the normal operations of Caltrans traffic signal facilities must be performed under traffic control and during the hours approved by the Caltrans Inspector and Caltrans District 5 Traffic Management Center.**

**CONDITIONS OF APPROVAL**

1. During the pre-job meeting, the Permittee or Permittee's contractor shall provide the Caltrans Permit Inspector with a work schedule or timeline documenting the start of work to when all repairs to the State highway will be completed.
2. For the safety of the traveling public and to ensure the integrity of the State highway system, Caltrans District 5 has provided the following supplemental guidance for the Encroachment Permit Special Provisions - Annual Utility Provisions TR-0160. This supplemental guidance pertains to Annual Utility Provisions UE2, UE3, UE5, and UE6.

- a. Destructive or ground disturbing maintenance activities may be the subject of a separate permit rider or encroachment permit application and may require engineering plans prepared by a Registered Civil Engineer. References: HDM Topics 81, 82, & 309; Caltrans Mission, Vision, and Goals (<https://dot.ca.gov/about-caltrans>); PE Act 6746
  - b. Emergency work may be performed after consulting with the Caltrans Permit Inspector. A permit rider may be required by the Caltrans Permit Inspector to document the emergency repair.
  - c. Work within the paved or unpaved highway shoulder is allowed, if requested in writing by the Permittee or their approved contractor.
  - d. Excavation within the traveled way shall be the subject of a permit rider or double permit.
3. Maintenance work to be performed by Permittee's contractor that is not on the approved contractor list shall require a double permit.
  4. Installation of additional aerial capacity at the same location of existing facilities may be the subject of a permit rider where it is demonstrated that no additional ground disturbing pole line work will be required, and pole line stability calculations have been verified. The determination for a permit rider will be made by the District Permit Engineer or his assigns
  5. **This permit does not authorize work within Caltrans Freeways, Expressways, Access Controlled Highways, or the highway traveled way unless otherwise noted in this permit. Work of this nature shall be subject of a permit rider to this permit or another permit. Special provisions included in this permit do not authorize work in the traveled way but are included for emergency work and subsequent approved permit riders.**
  6. **Failure to meet with the Caltrans Permit Inspector for a pre-job meeting prior to starting work within the State right of way may result in the immediate termination of work at the site. The State right of way shall be restored to a safe condition and all personnel and equipment must be removed from the State right of way as soon as possible as directed by the Caltrans Representative. Work may resume once the meeting with the Caltrans Permit Inspector has taken place and the Caltrans Permit Department has determined that the work is in compliance with the provisions of this permit.**
  7. **Failure to comply with the permit provisions may result in the revocation of this permit (See Encroachment Permit General Provision number 2.) and will also result in more stringent permit requirements for future encroachment permits.**

8. **All work requiring site specific traffic control in lieu of Caltrans Standard traffic control plans shall be the subject of a separate encroachment permit.**
9. **All ground disturbing activities must be cleared by Caltrans District 5 Environmental Stewardship branch through the Caltrans Permit Inspector prior to beginning excavations.**
10. **Only contractors on the approved/authorized contractor list attached will be allowed to work under this maintenance permit. Permittee may modify the contractor list by applying for and obtaining a fee exempt permit rider.**
11. Repairs to sidewalks or curb ramps must comply with current Americans with Disabilities Act (ADA) requirements and may require engineered plans. The Caltrans Permit Inspector shall determine if the scope of work on ADA accessible paths may be allowed under this maintenance permit.
12. The Caltrans Permit Inspector shall determine in the pre-job meeting if the proposed work within the State Highway right of way may be performed under this maintenance permit.
13. The Caltrans Permit Inspector shall determine the method of repair of all existing State facilities.
14. Work authorized by this permit may require as-built plans and electronic 3-D as-built vector and data files based on Caltrans current coordinate datums per the Project Completion provisions of this permit. As-built and electronic files should be received within 30-days of the completion of the permitted work unless otherwise arranged with the Caltrans Permit Inspector. Failure to provide as-built files may result in the suspension of Permittee's encroachment permit activities within Caltrans District 5.
15. Permittee shall be solely responsible to provide additional traffic control devices to protect the work site and traveling public as directed by the Caltrans Permit Inspector to meet field conditions at no cost to the State.
16. Nighttime highway construction work lighting must be provided within the work zone to illuminate the task(s), minimum illumination of 10 foot-candles, in a manner that will minimize glare to work crews and not interfere with the vision of oncoming motorists (e.g. providing screens, mounting lamps below the top edge of the barrier wall, varying the beam angle, etc.)

**DOUBLE PERMIT**

Notwithstanding General Provision #4, your Contractor is required to apply for and obtain an encroachment permit prior to starting work. The Contractor will be billed \$2,100.00 by Caltrans Accounting for permit processing and anticipated permit inspection fees to issue the double permit. The Contractor will be billed for any amount exceeding the permit fees or refunded any unused portion thereof after completion of the project. The Contractor's encroachment permit application must state that it is a "Double Permit for permit number 0522 NUE 0034."

Work within the State right of way must not begin until the double permit has been issued.

**The Permittee's contractor is responsible to provide the following:**

**A. Caltrans Lane Closure System (LCS) Compliance**

1. Work authorized by this permit will require compliance and proper notification in LCS.
2. Your contractor must provide the contact information for two personnel, who will be ensuring LCS compliance in item 17 (description of work) of the Standard Encroachment Permit Application TR-0100 when applying for the double permit. Contact information shall include personnel's full names, phone numbers and email addresses.
3. Double permit applications missing the LCS contacts will be rejected.

**B. A certificate of liability insurance and an additional insured endorsement is required to cover the State's potential liability for the permitted work and the issuance of the Double Permit. The certificate and endorsement must name "the State of California, California Department of Transportation, the directors, officers, employees, and/or agents of the State of California and/or the California Department of Transportation" as additional insured for the following minimum liability insurance limits:**

|                |                                   |
|----------------|-----------------------------------|
| \$2,000,000.00 | General Liability Aggregate       |
| \$1,000,000.00 | General Liability per Occurrence  |
| \$100,000.00   | Non-Owned Vehicle Property Damage |

The Certificate must contain "Permit Number 0522 NUE 0034" in the description of the Certificate.



**SURVEYOR'S DOUBLE PERMIT**

(If required by the Caltrans Permit Inspector to positively locate underground facilities.)

Notwithstanding General Provision #4, a California Licensed Land Surveyor (Surveyor) is required to apply for and obtain an encroachment permit prior to starting work within the State right of way. The Surveyor's double encroachment permit shall be fee exempt. The Surveyor's encroachment permit application must state that it is a "Double Permit for permit number 0522 NUE 0034."

**The Permittee's surveyor should be capable to provide the following data in compliance with Project Completion As-Builts requirements identified in this permit:**

- A. A survey of any proposed County of San Luis Obispo Public Works Department's underground utilities during installation or exposed by potholing within the proposed underground utility installation limits. If underground utilities are exposed during the course of work, the survey shall include all alignment control points and at 200-foot intervals along the alignment.
- B. If trenchless installations tracking control cannot provide the accuracy required of the As-Builts, a survey of the installed utilities at 200-foot intervals and at all alignment control points by potholing will be required.
- C. A survey of the existing County of San Luis Obispo Public Works Department's underground utility alignments, outside of pavement and exposed by potholing, within the proposed underground utility installation limits. If underground utilities are exposed during the course of work, the survey shall include all alignment control points and at 200-foot intervals along the alignment.
- D. Provide a survey of existing utilities potholed for positive location in the course of installation of the utility work authorized by this permit.

Surveyor must provide evidence of a minimum of \$1,000,000.00 in general liability insurance coverage.

The application and material for the double permit may be mailed or delivered to the following address, or sent by email to [D5.Permits@dot.ca.gov](mailto:D5.Permits@dot.ca.gov)

CALTRANS  
ENCROACHMENT PERMIT OFFICE  
Attention: Eileen Stephens, PE, QSD/P  
50 Higuera Street  
San Luis Obispo, CA 93401

Any questions concerning the double permits should be directed to ALAN KWONG at (805) 534-3860 or sent by email to alan.kwong@dot.ca.gov.

### **NOTIFICATIONS**

#### **Notice of Materials Used**

Permittee's attention is directed to the State Standard Specification – Section 6 "Control of Materials."

The Permittee must bear all costs for source material inspection. Please note that these materials may require source inspection and approval at the manufacturer's plant.

Permittee shall be solely responsible to furnish a list of materials to be used on the permitted project by completing the attached Form CEM-3101 "Notice of Materials Used" for traffic signal standards, lighting (electrolier) standards, metal poles, mast arms, foundation bolts, overhead sign trusses, guard rail components, column casings, epoxy coated rebar, reinforced concrete pipe, steel girders, sign panels, and other items as specified by the State representative. Form must be submitted to the Caltrans Permit Inspector and METS Material Administrator.

The METS Material administrator must determine which materials will require source inspection and which will require onsite inspection in coordination with the Caltrans Permit Inspector. Additional form submissions may be required to address additional items that require source inspection.

Please allow a minimum of six weeks for source inspection, testing, and approval of materials to be used.

The METS Material Administrator can be reached via fax at 916-227-7084 or via email at *materials\_administrator-METS@dot.ca.gov*.

### **TRAFFIC CONTROL AND PUBLIC SAFETY**

All traffic control must be performed under the direction of qualified and competent traffic control personnel. If it becomes apparent to the Caltrans

Permit Inspector that the Permittee's contractor does not have adequately trained and competent staff to perform traffic control, the Permittee or Permittee's contractor must hire a suitable contractor to provide traffic control.

Traffic control and construction zone signing must be performed per an approved traffic control plan.

In the absence of a project specific traffic control plan:

All traffic control must be performed in compliance with the applicable Caltrans Standard Plans for traffic control, California Manual on Uniform Traffic Control Devices, or as approved by and as directed by the Caltrans Permit Inspector,

or

If requested by the Caltrans Permit Inspector, Permittee or Permittee's contractor must provide a traffic control plan prepared by a duly licensed individual for review and approval. Plans must bear the licensed individual's signature and identifying licensing information.

All traffic control personnel performing flagging operations must be trained in accordance with Cal/OSHA Title 8, Division 1, Chapter 4, subchapter 4 Construction Safety Orders, Article 11, Section 1599 (f) and (g), and must provide certification of training if requested by the State Permit Inspector.

All traffic control devices must comply with the current California Manual of Uniform Traffic Control Devices.

The Permittee must provide all traffic control devices and personnel. All expenses incurred from traffic control operations must be borne by the Permittee.

Work must not interfere with traffic and no equipment must be parked on or operated from the traveled way unless approved by the Caltrans representative.

Notwithstanding lane closures noted in the traffic control plans or elsewhere in this permit, the full width of the traveled way must be open for use by public traffic on Saturdays, Sundays, designated legal holidays, the day preceding designated legal holidays, after 3:00 PM on Fridays, and when construction operations are not actively in progress.

On multilane roadways, a minimum of one-paved traffic lane, not less than 12 feet wide, must be open for use by public traffic in each direction of travel.

On 2-lane, two-way roadways a minimum of one-paved traffic lane not less than 12 feet wide must be open for use by public traffic. When construction operations are not actively in progress, not less than 2 of these lanes must be open to public traffic.

If approved by the State Inspector, one lane may be closed during construction and public traffic stopped for periods not to exceed 5 minutes. After each closure, all accumulated traffic must be allowed to pass through the work before another closure is made. Lane closures must not exceed 0.5 mile in length.

Minor deviations from the requirements of this section concerning hours of work may be permitted upon the written request of the Permittee if, in the opinion of the Inspector, public traffic will be better served, and the work expedited. The Permittee must not adopt these deviations until the Inspector has approved them in writing.

Except for installing, maintaining and removing traffic control devices, whenever work is performed, or equipment is operated in the following work areas the Permittee must close the adjacent traffic lane:

| APPROACH SPEED OF PUBLIC TRAFFIC<br>(Posted Speed Limit)<br>(mph) | WORK AREA  |
|---|--|
| Over 45   | Within 6 feet of a traffic lane but not on a traffic lane. |
| 35 to 45  | Within 3 feet of a traffic lane but not on a traffic lane. |

The lane closure provisions of this section shall not apply if permanent railing, temporary railing or a barrier protects the work area.

"NO PARKING" zones must be posted a minimum of 48 hours in advance of proposed parking lane closure.

**Suspended Loads**

Suspended loads or equipment must not be moved nor positioned over public traffic or pedestrians.

**Portable Transverse Rumble Strips – State Standard Specifications 12-3.36**

12-3.36A General

12-3.36A (1) Summary

Section 12-3.36 includes specifications for placing portable transverse rumble strips.

*12-3.36A (2) Definitions*

Not Used

*12-3.36A (3) Submissions*

Submit a copy of the manufacturer's instructions.

*12-3.36A (4) Quality Assurance*

Not Used

*12-3.36B Materials*

The strip must be either the RoadQuake 2 or the RoadQuake 2F Folding Temporary Portable Rumble

Strip manufactured by Plastic Safety Systems, Inc. For information on obtaining the rumble strips, contact:

CUSTOMER SERVICE  
PLASTIC SAFETY SYSTEMS, INC.  
2444 BALDWIN RD  
CLEVELAND, OH 44104

Telephone no.: (800) 662-6338 or (216) 231-8590

*12-3.36C Construction*

Place portable transverse rumble strips before closing the lane to traffic.

The color of the portable transverse rumble strips must be black or orange. Use 2 arrays and, each array must consist of 3 rumble strips.

Portable transverse rumble strips must not be placed:

1. On sharp horizontal or vertical curves
2. Through pedestrian crossings

If the portable transverse rumble strips become out of alignment or skewed

by more than 6 inches, measured from one end to the other, readjust to bring the placement back to the original location.

Portable transverse rumble strips are not required if any of the following conditions is met:

1. Work duration occupies a location for 4 hours or less.
2. Posted speed limit is below 45 mph.
3. Work is of emergency nature.
4. Work zone is in snow or icy weather conditions.

For a RoadQuake 2 rumble strip, securely connect the 3 sections under the manufacturer's instructions before placing them in the traffic lane.

Remove all portable transverse rumble strips and warning signs before opening the lane to traffic.

If the Engineer determines that the portable transverse rumble strips no longer provide audible and vibratory alerts, replace them.

### **GENERAL REQUIREMENTS**

#### **Project/Work Site**

All disturbed areas must be restored to original or better condition.

Any change in the existing drainage pattern, whether occasioned by increase or diversion, and the cost of damage, repair or restoration of the State highway right of way must be the responsibility of the Permittee.

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 on the highway traveled way, public or private approach by the Permittee's construction equipment or by traffic entering or leaving the highway traveled way. The Permittee must immediately remove excavated earth or mud so tracked onto the highway pavement or public or private approach.

No excavation, maintenance hole, pull box, or vault shall be left open overnight or unattended during work hours without written permission from the Caltrans representative and adequate protection for traffic and pedestrians is provided.

Any earthwork, excavation and embankments must conform to Caltrans Standard Specifications - Section 19.

Any clearing and grubbing must conform to Caltrans Standard Specification Section 17-2.

All newly placed concrete must be cured in accordance with the provisions of Section 90-1.03B, "Curing Concrete," of Caltrans Standard Specifications.

**Personnel Protective/Safety Equipment**

All personnel working within the State right of way must wear the appropriate personnel safety/protective equipment as specified by the personnel's employer's "Injury and Illness Prevention Program" required by the California Code of Regulations 3203. If requested by the Caltrans Permit Inspector, personnel's employer must provide a copy of said "Injury and Illness Prevention Program" and identify the locations within the document that addresses, but not limited to, personal protective equipment, head protection, and warning garments.

In the absence of an "Injury and Illness Prevention Program," all other personnel within the project work zone must conform to the personnel protective/safety equipment requirements in the latest edition of the Caltrans Safety Manual.

**Aerially Deposited Lead (ADL) for Minimal Disturbance**

Permittee must reuse the soil within the work limits in the immediate area from which it was excavated. If any excess soil is generated, it becomes the property of the Permittee. Permittee must transport all excess soil outside of Caltrans' right-of-way, and dispose of it in accordance with all applicable environmental laws and regulations.

**Construction Debris and Waste Materials**

The Permittee solely owns all construction debris and waste materials, including hazardous waste, generated by this permitted project. Said materials must be removed from the State right of way, stored, and disposed of in accordance with applicable local, regional, State, and Federal specifications or regulations. Construction debris and waste materials must be disposed of:

at designated off-site commercial facilities approved to accept said materials;

at non-commercial permitted sites approved to accept said materials (Permittee must provide copies of all necessary local and State agency permits prior to disposal.);

or at sites outside of the State of California approved to accept said materials (Permittee to provide copies of permits issued by the local and State agency with jurisdiction over the site prior to disposal.).

If requested by the State Permit inspector, Permittee must provide a copy of documentation as proof of the proper disposal of said materials.

**Survey Monumentation**

Permittee's attention is directed to Section 5-1.36, "Property and Facility Preservation," Caltrans Standard Specifications and "Professional Land Surveyors' Act," Section 8771 of the State of California Business and Professions Code. Permittee must physically inspect the work site and locate survey monuments prior to work commencement. Monuments that might be disturbed must be referenced or reset in accordance with the standards mentioned above.

If feasible, monuments should not be set within the traveled way. All monuments that must be set or perpetuated in paved surfaces must be constructed in accordance with Caltrans Standard Specifications, Section 78-2, "Survey Monuments," and Caltrans Standard Plan A74, Type D, or equal with prior approval of the District Surveys Engineer.

Copies of Corner Record files or Record of Surveys recorded in compliance with the Business and Professions Code must be forwarded to the Caltrans District 5 Surveys Engineer at the following address:

Caltrans District 5  
Survey Section  
Attn: Jeremy Villegas  
50 Higuera Street  
San Luis Obispo, CA 93401

Phone: (805)549-3066  
Email: jeremy.villegas@dot.ca.gov

**Material Testing**

Material testing and quality control must conform to the State Construction Manual and to the State Material Testing Manual. Testing must be performed by a certified material-testing consultant acceptable to the State and paid for by the Permittee. Material testing and quality control tests must be performed as required by the State's Inspector and the results thereof must be made immediately available.

All required construction compliance tests must be performed with the California Test Methods and must be in accordance with the latest edition of Caltrans Independent Assurance Program Manual. A Caltrans certified laboratory must also perform all tests and all laboratory reports must be furnished to the Department's representative at no cost to the State.



### **Backfill Requirements**

All backfilling and compaction must conform to the applicable sections of the Department's Standard Specifications Section 19-5 "Compaction."

Backfilling using ponding or jetting methods are prohibited.

Caltrans Standard Specification 2-sack slurry cement should be used for backfilling under all paved surfaces to expedite roadway repairs.

All backfill material must comply with and must be constructed per Caltrans Standard Specifications.

Backfill material must be approved by the Caltrans Permit Inspector prior to beginning excavation.

Culverts with less than 2 feet of cover must be backfilled as directed by the State Inspector with minor concrete conforming to the provisions in **Section 90-2** of the Caltrans Standard Specifications.

### **Relative Compaction (90 Percent)**

Embankment compaction beyond the roadbed or outside of structure backfill must not be less than 90 percent relative compaction unless stated otherwise in the Caltrans Standard Specifications or Caltrans Highway Design Manual.

### **Relative Compaction (95 Percent)**

Relative compaction of not less than 95 percent must be obtained for a minimum depth of 0.5-foot below the grading plane for the width between the outer shoulders, whether in excavation or embankment.

In addition, relative compaction of not less than 95 percent must be obtained for a minimum depth of 2.5 feet below the finished grade for the width of the traveled way plus 3 feet on each side thereof, whether in excavation or embankment.

For limits of 95 percent compaction of embankment adjacent to abutments and for retaining walls without pile foundations reference Caltrans Standard Specifications Section 19-5.03B.

### **Existing Trees and Vegetation**

Unless stated elsewhere in this permit or shown on the approved permit plans, this permit does not authorize the removal, severing of roots or trimming of vegetation. If work of this nature is required, a written request and approval, by the Caltrans Permit Inspector, is required in advance of performing the work.

Replacement planting may be required as a mitigation measure. Excavations should be done outside of drip line to reduce tree damage and integrity of trees. If excavations must be made within the drip line of trees (or extending tree roots) along the right of way, the trenches must be hand dug and the utility routed beneath or around root structure. Major tree roots must not be cut or damaged. Additionally, the exposed roots must be wrapped and kept moist until the excavation is back filled with the native material. Requests for exceptions must be accompanied by an Arborist's recommendation.

### **Archaeological/Cultural Requirements**

If archaeological resources or human remains are accidentally discovered during construction, work must be halted within 150 feet of the find until a qualified professional archaeologist can evaluate it. Permittee must notify Caltrans District Archaeologist Krisstin Hadick, (805) 549-3193, about the discovery immediately. If the find is determined to be significant, appropriate mitigation measures must be formulated and implemented.

### **Signs**

Installation of roadside signs must comply with all applicable portions of the current Caltrans Standard Specifications Section 56-3, Caltrans Standard Plans, California Manual on Uniform Traffic Control Devices, and Caltrans policies.

If exact locations of roadside and construction area signs are not shown on the project plans, post holes must be dug by hand, except where potential conflicts can be eliminated. Potential conflicts are considered eliminated when an appropriate regional notification center has performed field mark-out and no subsurface utilities are within 4 feet of the proposed post hole or the post hole can be moved 4 feet away from subsurface utilities as located by the utility owner.

Temporary and permanent signs placed within the State right of way must comply with minimum retro-reflectivity requirements of the most current of the following: Federal Highway Administration Manual on Uniform Traffic Control Devices - Section 2A.08, Caltrans Standard Specifications 82-2, or Caltrans policy.

Except for white background signs, retroreflective sheeting must conform to ASTM D4956-13 Type XI and Caltrans "Prequalified and Tested Signing and Delineation Materials."

White background sign retroreflective sheeting must conform to ASTM D4956 Type VIII or Type IX and Caltrans "Prequalified and Tested Signing and Delineation Materials."

Retroreflective sheeting must be applied to sign panels as recommended by the

retroreflective-sheeting manufacturer without stretching, tearing or damage.

Roadside signs mounted on post(s) must be placed at locations shown on the permit plans and must be installed in compliance with the latest edition of Caltrans Standard Plan RS1 through RS4.

Temporary signs mounted on barricades and barricade/sign combinations must be crashworthy.

The bottom of a temporary sign mounted on a barricade, or other portable support, must be at least 1 foot above the traveled way or the existing surface at the location of placement.

Proposed sign placement must not interfere with the visibility of any existing warning, regulatory, information or guide signs along the State Highway.

Signs to be owned and maintained by the Permittee shall be appropriately marked on the back of the sign.

A safe pedestrian passageway width of 4 feet must be maintained at any sign installation in areas normally traversed by pedestrians. The minimum passageway adjacent to a drop off, such as a curb face or gutter must be at least 5 feet.

### **Portable Changeable Message Sign**

Permittee must furnish portable changeable message signs (PCMS) conforming to State Standard Specifications Section 12, "Temporary Traffic Control" and the California Manual on Uniform Traffic Control Devices.

If edge of PCMS sign panel or PCMS extends into the paved shoulder, provide a standard shoulder closure per Caltrans Revised Standard Plan RSP T10.

When PCMS message is no longer needed to inform the traveling public of construction activities, the PCMS must be removed from the State highway right of way, or the PCMS display board must be rotated away from view of the traffic lanes and shut off.

### **Open Trench Pavement**

The clearance and offset requirements for new utility installations within existing or ultimate State Highway rights of way must meet the following minimum clearances along the alignment of the facility:

1. 42 inches below the finished grade or 18 inches below the grading plane of a currently planned project, whichever distance is greater

2. 12 inches below existing or future drainage structures, but not less than the requirements identified in item 1 above
3. 30 inches below the flow line of unlined ditches
4. 24 inches horizontally from the face of piles
5. 24 inches horizontally from the side of the planned excavation
6. 36 inches below concrete sidewalks, where future widening of the street in the sidewalk area is not anticipated.

No more than one lane of the highway must be open-cut at any one time. Any exceptions must be in writing by the Department's representative. After the utility is placed in the open section, the trench is to be backfilled in accordance with specifications, temporary repairs made to the surfacing, and that portion opened to traffic before the pavement is cut for the next section.

Trench back fill and paving must comply with the attached "Encroachment Permit Trench Detail (TR-0153)" or as directed by the Caltrans Permit Inspector to meet field conditions.

All existing AC must be saw cut to a minimum width of 3 feet, over the trench, to allow for a roller compactor to properly compact the AC.

Pavement grinding must be performed to accommodate a uniform overlay for the final trench paving. See attached diagram "Limits of Grind and Overlay for Pavement Replacement."

A minimum grind depth of 2.0 inches is required when using Type A HMA, ½ inch aggregate, or a minimum grind of 2.5 inches is required when using Type A HMA, ¾ inch aggregate.

All trench paving must be constructed per Caltrans Standard Specifications.

During trenching operations, tree roots must be avoided whenever possible.

If excavation operations damage roots larger than 2 inches in diameter, roots must be cut cleanly with a saw.

If trenching operations damage more than 20% of a tree's roots, a certified Arborist must be consulted and must submit a mitigation recommendation.

If tree roots are damaged on the highway shoulder, regional Caltrans Tree Maintenance Supervisor must be notified immediately.

If trees are damaged and must be removed for safety reasons, a mitigation plan must be submitted to the State Inspector for approval.

Backfill in trenches outside of the traveled way and shoulder area in the root zones must consist of native soil and must be compacted, using water, to a minimum 90% relative compaction or as directed by the State Inspector.

Erosion control must be applied whenever trenching occurs in unpaved areas.

A Caltrans micro-surfacing Type III may be required over the entire roadway within the project limits as directed by the Caltrans Permits Office or Caltrans Permit Inspector to provide a smooth and uniform color pavement surface prior to installing final pavement delineation and markings.

### **Saw Cutting Existing Pavement**

Where proposed pavement matches existing roadway pavement, saw cutting of existing pavement must produce a clean, competent pavement edge to join proposed and existing pavement. Pavement edge at the saw cut line must be free of defects including cracks, separated aggregate, or failed structural roadway sections.

Saw cut locations may need to be extended further into the limits of the existing pavement as necessary to obtain a competent pavement edge. The resulting, conform joint must not occur within a wheel track and may require a pavement grind and overlay to conceal the joint.

The Caltrans Permit Inspector must be consulted to determine if a saw cut location is acceptable.

All conform locations in open cuts or where proposed paving meets existing paving must be saw cut to a neat line the full depth of the pavement with a power-driven saw or rock cutting excavator before removing any surfacing. The surfacing to remain in place must not be disturbed or displaced by cutting or removal methods employed.

### **Excavation Protective Systems**

If required, Permittee or Permittee's contractor must provide an excavation protective system in compliance with California Code of Regulations, Title 8 – Industrial Relations, Division 1 – Department of Industrial Relations, Chapter 4 – Division of Industrial Safety, Subchapter 4 – Construction Safety Orders (Construction Safety Orders); for the protection of personnel in excavations and to preserve the stability of the roadbed and other structures.

### **Shoring Plan Submission:**

The Permittee's contractor may submit a shoring plan using Construction Safety Orders details for sloping excavations or tabular data, in the form of a letter

stating which portions of the Details are to apply to the plan. The letter should list:

- Location of the work
- Limits of the work
- The times the work is to start and be in progress and sequence
- The applicable Construction Safety Orders Detail Figures or Tables
- Any other information which will pertain to the progress or complexity of the work
- Who will be in charge of the work
- Who will be the designated competent person responsible for safety

If the Permittee's Contractor elects to use the shoring details in the Construction Safety Orders, it is not necessary to have the shoring plans prepared by a registered engineer, and the reviewing engineer does not have to do a structural analysis. However, the reviewing engineer must ascertain that the Permittee's Contractor does the work in accordance with the Construction Safety Orders and that the site conditions are such that the shoring plan is appropriate for the soil conditions encountered.

Shoring that does not meet the Construction Safety Orders must be designed by a California Registered Civil or Structural Engineer. The Engineer is required to stamp, sign and date the shoring plan. Shoring designs shall conform to the Caltrans Trenching and Shoring Manual (Manual) found at the website:

<http://www.dot.ca.gov/hq/esc/construction/manuals/>

The Caltrans Permit Inspector shall be provided a copy of the shoring systems used on the job site that have been shown to be compliant with these provisions.

#### **Maintenance Holes, Pull Boxes and Valve Boxes**

Maintenance holes must conform to State Standards unless local standards exceed that of the State.

Maintenance holes, valve boxes and pull boxes must be located as far as practical from the roadway as to minimize impact to traffic when accessed.

Maintenance holes, valve boxes and pull boxes should not be placed in the traveled way or paved shoulders.

Maintenance holes placed in graded dirt shoulders must be set flush with finished grade, and a minimum 1 foot wide minor concrete collar must be constructed around the manhole as directed by the State Inspector.

Maintenance holes, valve boxes and pull boxes must not be located where

there is a break in grade between the pavement, gutter, curb ramps or in major traffic lanes of a cross street.

All maintenance holes, valve boxes and pull boxes must have traffic-rated covers and must be constructed flush with the adjacent surface.

All maintenance hole, valve box and pull box covers must fit into their frames without rocking.

**Curbs, Gutters, Sidewalk, and Asphalt Concrete Dike**

Sidewalk/accessible path construction with grades or dimensions that exceed the maximum allowed values per the Americans with Disabilities Act (ADA), State Standards Plans and Specifications, and Caltrans requirements is not acceptable and will require reconstruction to bring the facility into compliance.

Curb, gutter, and sidewalk construction must comply with Caltrans Standard Specification Section 73.

New sidewalk, curb and gutter concrete must be doweled as follows or as directed by the State Inspector. New concrete must be doweled into existing adjacent concrete with minimum of 12 inches #4 smooth bars equally embedded, at 24-inch centers and 6 inches from the concrete edge, or as directed by the State Inspector. A minimum of one longitudinal bar must be doweled into each, the curb and in the gutter. One end of each bar must be greased or sleeved. Concrete sidewalk must not be doweled into the curb and gutter.

New curb and gutter installations must be State standard type A2-6, unless necessary to conform to existing adjacent curb and gutter installations or noted elsewhere on the approved plans.

New curb and gutter must be constructed to drain properly without ponding.

Where curbs exist, the driveway structural section must be a minimum of 6 inches of Portland Cement Concrete (PCC) over 6 inches of Class 2 aggregate base.

Removal of PCC Sidewalks or Curbs: sidewalks or curbs must be saw cut to the nearest score marks and replaced equal in dimension to that removed with score marks matching existing adjacent sidewalk or curb.

Existing curb and gutter may be sawcut at lip of gutter if the curb and gutter can be removed without disturbing the existing pavement structural section. New curb and gutter concrete must be poured neat to the existing pavement and must match the elevation of the existing pavement.

Effort must be made to retain the existing pavement adjacent to new concrete work. If the Caltrans Permit Inspector determines that the existing pavement was damaged, or if the pavement was removed to facilitate the curb, gutter or driveway improvements, then the existing pavement must be repaired or replaced in kind directed by the Caltrans Permit Inspector. Limits of roadway pavement repair or replacement shall be determined by the Caltrans Permit Inspector to meet field conditions and must be a minimum of 3 feet from the flowline of the curb or lip of gutter.

All newly placed concrete must be cured in accordance with the provisions of Section 90-1.03B, "Curing Concrete," of Caltrans Standard Specifications.

AC dikes must be removed by saw cutting to a neat line and replaced in kind per State Standard Plans A87B or as directed by the State Inspector. Asphaltic binder and aggregate size for AC dikes must conform with Caltrans Standard Specification 39-2.01B (11).

**Paving - Type A Hot Mix Asphalt (Type A HMA)**

The structural section of the new pavement should have been determined in accordance with pre-project R-value tests of the soil and the Traffic Index value for that portion of roadway as shown on the approved plans and must be no less than the adjacent pavement. If any question should arise concerning the R-values and Traffic Index values, the Caltrans Permit Inspector shall make the final determination regarding which values will be used.

If basement soils differ from the anticipated site conditions, the Caltrans Permit Inspector may request R-value verification tests at spot locations at no cost to the State.

Once excavation has been initiated to place a structural section for pavement replacement, complete excavation, placement of structural base courses, and paving must be performed in succession and continuously, without delay, until completed.

Newly placed asphalt concrete roadway pavement or shoulder paving must have a minimum width of 3 feet or as directed by the State's inspector to allow a roller compactor to compact the roadway section without contact over existing surfaces. Pavement or shoulder sawcutting to acquire the 3 feet minimum width must be done radial to or perpendicular to the lip of curb, curb face, edge of pavement, centerline or as directed by the State Inspector.

Asphalt concrete must be Type A HMA, ½, ¾, or 1-inch aggregate gradation, and must conform to the specifications in Section 39, "Asphalt Concrete", of the



Caltrans Standard Specifications.

The placement and use of asphalt concrete products, which includes but not limited to, asphalt, aggregate, pavement reinforcing fabric, storage, drying, proportioning, mixing, subgrade preparation, prime coat, paint binder (tack coat), spreading and compacting must comply with Caltrans Standard Specifications – Section 39, "Asphalt Concrete".

All conform locations in open cuts or where new paving meets existing paving must be saw cut to a neat line the full depth of the pavement with a power-driven saw or rock cutting excavator before removing any surfacing. The surfacing to remain in place must not be disturbed or displaced by cutting or removal methods employed.

The area to which paint binder has been applied must be closed to public traffic. Care must be taken to avoid tracking binder material onto existing pavement surfaces beyond the limits of construction.

A drop-off of more than 0.15 feet will not be allowed at any time between adjacent lanes open to public traffic.

At the end of each working day if a difference exists between the elevation of the existing pavement and the elevation of any excavation within 15 feet of the traveled way, material must be bladed up and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose; however, once the placing of the structural section commences, structural material must be used. The material must be placed to the level of the top of existing pavement and tapered at a slope of 4:1 (horizontal: vertical) or flatter to the bottom of the excavation.

### **Pavement Delineation and Markings**

Unless otherwise directed by the Caltrans District Permit Engineer and the Caltrans Permit Inspector, all installations of pavement delineation on or after July 21, 2017 must comply with the Department's policies for 6-inch-wide pavement delineation as shown in Caltrans 2018 Revised Standard Plans series A20 and A40.

Traffic stripes and pavement markings must be removed by any method that does not materially damage the existing pavement. Pavement marking images must be removed in such a manner that the old message cannot be identified. Where grinding is used, the pavement marking image must be removed by grinding a rectangular area. The minimum dimensions of the rectangle must be the height and width of the pavement marking. A minimum of a Caltrans Micro-surfacing may be required to correct any imperfections to the pavement as directed by the Caltrans Inspector.

Residue resulting from removal operations must be removed from pavement surfaces by sweeping or vacuuming before the residue is blown by the action of traffic or wind, migrates across lanes or shoulders, or enters drainage facilities.

The removal of yellow pavement delineation may contain lead. Permittee shall be responsible to have the waste material tested for the concentration of lead. The Permittee, for work performed under an encroachment permit project, shall be the generator of the hazardous material and is solely responsible to properly process and dispose of the lead laden waste material at no cost to the State.

All striping and pavement markings, unless otherwise noted on the approved plans or permit, must be applied in thermoplastic material in conformance with **Section 84-2, "THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS,"** of the Caltrans Standard Specifications.

Pavement delineation and markings on bridge decks or surfacing must be in thermoplastic tape per Caltrans longitudinal pavement marking policy.

Permittee or Permittee's contractor must coordinate with the Caltrans Permit Inspector to document all existing pavement delineation and markings that may be obscured or removed during the pavement rehabilitation process. All existing pavement delineation and markings must be replaced in kind and at the same location.

### Surveys

**This permit does not authorize work on freeways, expressways, or controlled access highway rights of way. Work on these types of highway facilities must be the subject of a permit rider or a separate permit for each request or site location.**

**Traffic control and traffic control signage for each survey site must be determined by and approved by the State Inspector prior to starting work.**

All survey operations must be conducted off the traveled way except where necessary to cross pavements and medians.

When survey operations are being conducted, the permittee must furnish, place, and maintain signs and safety equipment in accordance with the latest edition of the Caltrans Survey Manual, Caltrans Manual of Traffic Controls for Construction and Maintenance Work Zones, and California Manual on Uniform Traffic Control Devices.

All personnel must wear hard hats and warning garments in the appropriate

color (fluorescent/reflective versions). Work must be done during daylight hours only.

Unless specifically authorized in this permit, markings within the right-of-way must be temporary. Any painted markings must be made with water-soluble paint, and other markings must be removed upon completion of the survey.

Electromagnetic and radioactive equipment must be operated by certified personnel and must not interfere with radio communications or be directed toward the traveling public.

Permission is also granted to park survey vehicles temporarily within the right of way, outside the shoulders, while survey work is in progress. Auxiliary support and employee vehicles must remain outside of the right of way.

Survey information and assistance may be obtained upon request to:

Department of Transportation  
Survey Section  
Attn: Jeremy Villegas  
50 Higuera Street  
San Luis Obispo, CA 93401

Phone: (805)549-3066  
Email: [jeremy.villegas@dot.ca.gov](mailto:jeremy.villegas@dot.ca.gov)

If feasible, monuments should not be set within the traveled way. All monuments that must be set or perpetuated in paved surfaces must be constructed in accordance with Caltrans Standard Specifications, Section 78-2, "Survey Monuments," and Standard Plan A74, Type D, or equal with prior approval of the District Surveys Engineer.

Any survey data requested by or furnished to Caltrans must be provided without charge.

Copies of Corner Records or Records of Surveys, recorded in compliance with the Business and Professions Code, must be forwarded to the District Surveys Engineer.

Measurements across traffic lanes must be made with electronic distance measuring devices utilizing non-visible light or other optical means.

Permittee must provide for the safe passage of pedestrians and bicyclists.

This permit does not authorize removal, cutting, trimming or damage to any tree, shrub, or plant within the highway right of way.

Unless specifically authorized elsewhere in this permit, excavation of holes in paved surfaces is prohibited.

Any permitted excavations must be backfilled in accordance with State standards and as directed by the State's representative.

When on the State Highway system, use W21-6 "Survey Crew" sign prior to survey area per the Caltrans Standard Plan T9 advance warning sign spacing or under the guidance of the Caltrans Permit Inspector.

#### **Unmanned Aircraft Systems (UAS)**

Unless specifically authorized in this permit, UAS operations within the State right of way requires prior written approval from the District Encroachment Permits Office.

UAS operations must comply with Caltrans UAS Operations Handbook.

#### **Pipe Abandonment**

Pipes to be abandoned must be removed from the State right of way were practical or abandoned as directed by the State Inspector.

Facilities made of or containing hazardous materials (such as asbestos) must be removed in accordance with the "Hazardous Materials and Hazardous Waste Management Special Provisions" (TR-0408).

Culverts and pipelines must not be abandoned until their use is no longer required. The Permittee must notify the engineer in advance of any intended culvert or pipeline abandonment.

Resulting openings into existing structures that are to remain in place must be plugged with concrete conforming to the provisions in Section 90-2 "Minor Concrete," of the Caltrans Standard Specifications.

Abandoned culvert and pipelines must be filled with sand, Caltrans two-sack slurry cement, or controlled low strength material which meets the Caltrans Standards to completely fill the pipe. Sand backfill material must be clean, free draining, and free from roots and other deleterious substances.

Pipes to be abandoned in place must be surveyed and the Permittee must submit "As-Built" plans to the State Inspector showing the actual location of the abandoned facility to the nearest 0.1-foot horizontally and vertically. Plans must

be stamped "As-Built" and signed by the Permittee's representative who was responsible for overseeing the work. Work shall be considered incomplete until the receipt of the "As-Built" plans.

In addition to the As-built plans, an electronic as-built file must be provided in a 3D vector file format as noted in the Project Completion section of this permit.

**Bird Protection**

Protect migratory and nongame birds, their occupied nests, and their eggs.

The Department anticipates nesting or attempted nesting from February 15 to September 1.

The federal Migratory Bird Treaty Act, 16 USC § 703–711, and 50 CFR Pt 10 and Fish & Game Code §§ 3503, 3513, and 3800 protect migratory and nongame birds, their occupied nests, and their eggs.

The federal Endangered Species Act of 1973, 16 USC §§ 1531 and 1543, and the California Endangered Species Act, Fish & Game Code §§ 2050–2115.5, prohibit the take of listed species and protect occupied and unoccupied nests of threatened and endangered bird species.

The Bald and Golden Eagle Protection Act, 16 USC § 668, prohibits the destruction of bald and golden eagles and their occupied and unoccupied nests.

The Permittee must have a qualified biologist conduct a biological survey to verify if nesting birds are present in the proposed limits of work. The required study area must be 300-foot radius for nesting raptors, and 100-foot radius for nesting migratory birds.

The biologist must provide a copy of the written report to the Caltrans Permits Office or State Permit Inspector.

The Permittee may have a biologist onsite to verify that nesting birds are not present during the permitted work in which case a final report must be submitted to the Permits Office documenting the dates of surveys and dates work was performed within the surveyed limits.

If no nesting birds are present, the permitted work must begin within 7 days of the study date. If nesting birds are present, all work within the radius noted above must cease until the young bird(s) have fledged.

If nesting birds are present and vegetation must be trimmed or removed to clear

utility lines for public safety, Permittee must contact and determine the allowable scope of work with the State of California Department of Fish and Game and United States Fish and Wildlife Service. The State Permit Inspector must be copied in all correspondence to verify allowed scope of work.

If migratory or nongame bird nests are discovered that may be adversely affected by construction activities or an injured or killed bird is found, immediately:

Stop all work within a 100-foot radius of the discovery.

Notify the State Permit Inspector and Caltrans Biologist.

If directed by the State Permit Inspector or Caltrans Biologist, the permittee must have the area investigated by a qualified biologist and provide a written report of the investigation.

Do not resume work within the specified radius of the discovery until authorized by the State Permit Inspector.

When ordered, use exclusion devices, take nesting prevention measures, remove and dispose of partially constructed and unoccupied nests of migratory or nongame birds on a regular basis to prevent their occupation, or perform any combination of these.

Prevent nest materials from falling into waterways.

### **EXISTING FACILITIES**

Existing improvements must be protected or relocated as required by the work authorized by this permit. If existing improvements including pavement markings and delineation are damaged or their operation impaired by this work, they must be replaced or restored to the satisfaction of the Caltrans representative. Such work must be done immediately if requested by the Caltrans representative.

**IT SHALL BE THE PERMITTEE'S RESPONSIBILITY TO FULLY INVESTIGATE THE PROPOSED WORK AREA FOR POSSIBLE CONFLICTS WITH EXISTING UTILITIES AND FACILITIES, INCLUDING BUT NOT LIMITED TO SEWERS, ELECTRICAL CONDUCTORS, GAS LINES, WATER PIPES AND TRAFFIC SIGNAL FACILITIES. THE PERMITTEE AGREES TO ACCEPT ALL LIABILITY FOR DAMAGES DONE TO EXISTING FACILITIES CAUSED BY THE WORK AUTHORIZED UNDER THIS PERMIT.**

**Caltrans Traffic Signals, Lighting, and Electrical Facilities**

**Caltrans does not subscribe to underground utility locating services. It is the Permittee's sole responsibility to investigate, locate, and mark existing Caltrans traffic signal equipment, loops, conduits, and street lighting facilities prior to work in or between signalized intersections and street lighting facilities.**

If it is apparent that impacting traffic signal conduits during construction will be unavoidable Permittee must install temporary overhead wiring for the signal at Permittee's own expense. Permittee must always have on hand all necessary equipment and personnel needed to provide traffic control at an intersection should the traffic signal malfunction.

If a signal detector loop, including the portion leading to the adjacent pull box is damaged by Permittee's operations the entire detector loop must be replaced, in kind, within 24 hours of the occurrence. If an adjacent loop is damaged during the replacement, that loop must also be replaced. The Caltrans Inspector must be notified immediately when damage occurs. Arrangements for Caltrans Electrical operations staff must be made to have the traffic signal controller reprogrammed.

### **Utility Relocations**

If existing public or private utilities conflict with the construction PROJECT, PERMITTEE will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. PERMITTEE must inspect the protection, relocation, or removal of such facilities. Total costs of such protection, relocation, or removal which STATE or PERMITTEE must legally pay, will be borne by PERMITTEE. If any protection, relocation, or removal of utilities is required, including determination of liability for cost, such work must be performed in accordance with STATE policy and procedure. PERMITTEE must require any utility company performing relocation work in the STATE's right-of-way to obtain a State Encroachment Permit before the performance of said relocation work. Any relocated utilities must be correctly located and identified on the as-built plans.

## **WATER POLLUTION CONTROL**

### **Discharge of Storm Water and Non-Storm Water**

Work within State highway right-of-way must be conducted in compliance with all applicable requirements of the National Pollutant Discharge Elimination System (NPDES) permit issued to the Department of Transportation (Department), to govern the discharge of storm water and non-storm water from its properties. Work must also be in compliance with all other applicable Federal, State and Local laws and regulations, and with the Department's Encroachment Permits Manual and encroachment permit. The Department's NPDES Permit requires the Permittee to comply and maintain, if applicable, the approved Storm Water

Special Provisions for Minimal or No Impact (TR-0400).

The Contractor (permittee) must be responsible for fines assessed or levied against the Contractor or the Department as a result of the Contractor's (permittee) failure to comply with these provisions. Fines shall include civil liability fines, criminal penalties and/or damages, assessed, or levied against the Department or the Contractor, Contractor liability for failure to comply with these provisions shall also include reimbursement for payments made or costs incurred by the Department in settlement for alleged violations of the Permits, the Manuals, or applicable laws, regulations, or requirements. Costs incurred could include sums spent in lieu of fines or penalties, in mitigation or to remediate or correct violations.

**If an unforeseen illicit discharge is generated during construction activities and the Caltrans Permit Inspector cannot be contacted, the Permittee or Permittee's contractor must contact the Encroachment Permit Storm Water Coordinator, Terran Hilden (805) 835-6571 immediately. The Permittee or Permittee's contractor is responsible to contain and remediate the illicit discharge as directed by the Caltrans Permit Inspector or Encroachment Permit Storm Water Coordinator at no cost to the State.**

Unless stated otherwise in this permit, approved plan, or approved specifications, seeds sown for erosion control must achieve 70% germination over the disturbed soil area as determined by the Caltrans Permit Inspector.

The Caltrans Permit Inspector must approve the seed mix prior to its application.

### **PROJECT COMPLETION**

#### **As-Built Requirements (if required by the Caltrans Permit Inspector)**

Civil Engineer in charge must also complete, stamp, and sign the attached Certification of Compliance with Americas with Disabilities Act (ADA) form TR-0405. Form must be submitted with As-Built plans or with the Notice of Completion.

Upon completion of the project, the Permittee must submit "As-Built" plans to the State Inspector showing the actual location of the newly constructed facility to the nearest 0.1-foot horizontally and vertically. Plans must be stamped "As-Built" signed and dated by the Permittee's representative who was responsible for overseeing the work. Work shall be considered incomplete until the receipt of the "As-Built" plans.

Permittee must also provide the following electronic as-built files georeferenced



to the current local State plane coordinate system used by Caltrans based on a minimum of two Caltrans survey monuments on the same horizontal datum noted below and a minimum of two Caltrans survey monuments with **NADV88 vertical datum**. See attached Caltrans Survey Control and Centerline Reference Monuments Report and Survey Monumentation provisions of this permit for contact information to obtain Caltrans survey control monument data. GPS surveys must comply with the calibration requirements in Chapter 6 of the Caltrans Surveys Manual.

Electronic as built files must include the following:

1. 3D vector file electronic as-builts formats
  - a. **MicroStation version 8i SS4 or CONNECT file (minimum submission)**
  - b. **Autodesk Civil 3D file (if available and identify version)**
2. **CSV (comma-separated value) file of reference monuments and utility point data**

**Horizontal control = (to be determined by the Caltrans Encroachment Permit Office.)**

**Vertical control = NAVD88**

Immediately following completion of the work permitted herein, the Permittee must fill out and send by email the Notice of Completion attached to this permit.

**THANK YOU!**

## **ENCROACHMENT PERMIT GENERAL PROVISIONS**

TR – 0045 (REV. 04/2021)

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. **REVOCACTION:** 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 by the Department 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 may be 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:** This encroachment permit allows only the Permittee or Permittee’s authorized agent to work within or encroach upon the State highway right-of-way, and the Permittee may not assign or transfer this encroachment permit. Any attempt to assign or transfer this encroachment permit shall be null and void.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept and comply with these General Provisions, the Special Provisions, any and all terms and/or conditions contained in or incorporated into the encroachment permit, and all attachments to the encroachment permit (collectively “the Permit Conditions”), for any encroachment, work, and/or activity to be performed under this encroachment permit and/or under color of authority of this encroachment permit. Permittee understands and agrees the Permit Conditions are applicable to and enforceable against Permittee as long as the encroachment remains in, under, or over any part of the State highway right-of-way.
6. **BEGINNING OF WORK:** When traffic is not impacted (see General Provision Number 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 the encroachment permit and/or 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 the Permit Conditions as defined in General Provision Number 5 are not allowed without prior approval from the Department’s representative and the Federal Highway Administration (“FHWA”) representative if applicable.
9. **RIGHT OF ENTRY, INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. The United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, and other state, and federal agencies, and the FHWA, through their agents or representatives, must have full access to highway facilities/encroachment area, at any and all times for the purpose of inspection, maintenance, activities needed for construction/reconstruction, and operation of the State highway right-of-way.  
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.).

**ENCROACHMENT PERMIT GENERAL PROVISIONS**

- 12. PERMITS AND APPROVALS FROM OTHER PUBLIC AGENCIES AND/OR ENTITIES:** This encroachment permit is invalidated if the Permittee has not obtained all permits and approvals 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”), and any other public agency and/or entity having jurisdiction. Permittee warrants all such permits and approvals have been obtained before beginning work under this encroachment permit. The Department may, at the Department’s discretion, require the Permittee to demonstrate that Permittee has obtained all such permits/approvals, and Permittee shall demonstrate this at the time and in the manner specified by the Department.
- 13. PEDESTRIAN AND BICYCLIST SAFETY:** A safe continuous passageway 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,” and to Section 12-4.04 “Temporary Pedestrian Access Routes,” and to Section 16-2.02 “Temporary Pedestrian Facility,” of the Department’s Standard Specifications, and to California Vehicle Code section 21760, subdivision (c).
- 14. PUBLIC TRAFFIC CONTROL:** 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 as required by law and/or the Department. 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, Bike Lane, Sidewalk, Crosswalk, and/or shoulder closures must comply with the Department’s Standard Specifications and Standard Plans for Temporary Traffic Control Systems & Temporary Pedestrian Access Routes, 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 (motorized vehicles, unmotorized vehicles such as bicycles, pedestrians, person(s) with disabilities, etc.), such that traffic is not unreasonably delayed.
- 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 United States, the State, the Department, and from the Directors, officers, and employees of the State and/or the Department. Removal of Permittee’s personal property and improvements shall be at no cost to the United States, the State, and 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:
- Upon completion of the work provided herein, the Permittee must submit a paper set of As-Built plans to the Department’s representative.
  - All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
  - 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.
  - 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,

**ENCROACHMENT PERMIT GENERAL PROVISIONS**

- 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 United States, 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 sole 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 the Permittee's sole 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.
  - c) **Biological:** If any regional, state, or federally listed biological resource is identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified biologist who must evaluate the site at Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work.
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 United States, the State, the Department, and the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director

**ENCROACHMENT PERMIT GENERAL PROVISIONS**

of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind, and description, including but not limited to those brought for or on account of property damage, invasion of privacy, violation or deprivation of a right under a state or federal law, environmental damage or penalty, 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/or 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 encroachment, work, and/or activity conducted pursuant to this encroachment permit, or under color of authority of this encroachment permit but not in full compliance with the Permit Conditions as defined in General Provision Number 5 (“Unauthorized Work or Activity”); and/or (c) the installation, placement, design, existence, operation, and/or maintenance of the encroachment, work, and/or activity; and/or (d) the failure by the Permittee or anyone acting on behalf of the Permittee to perform the Permittee’s obligations under any part of the Permit Conditions as defined in General Provision Number 5, in respect to maintenance or any other obligation; and/or (e) any change to the Department’s property or adjacent property, including but not limited to the features or conditions of either of them, made by the Permittee or anyone acting on behalf of the Permittee; and/or (f) a defect or obstruction related to or caused by the encroachment, work, and/or activity whether conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constituting Unauthorized Work or Activity, 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 in this General Provision Number 28 regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of: the United States, 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; 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 from or against the United States, the State, the Department, and 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 encroachment, work, and/or activity whether conducted pursuant to this encroachment permit or constituting Unauthorized Work

or Activity, and further agrees to defend, indemnify, and save harmless the United States, the State, the Department, and 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, from any and all claims, demands, damages, costs, penalties, liability, suits, or actions of every name, kind, and description arising out of or by virtue of the Americans with Disabilities Act.

The Permittee understands and agrees 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, are not personally responsible for any liability arising from or by virtue of this encroachment permit.

For the purpose of this General Provision Number 28 and all paragraphs herein, “contractors of the State and/or of the Department” includes contractors, and their subcontractors, under contract to the State and/or the Department.

This General Provision Number 28 and all paragraphs herein take effect immediately upon issuance of this encroachment permit, and apply before, during, and after the encroachment, work, and/or activity contemplated under this encroachment permit, whether such work is in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, except as otherwise provided by California law. The Permittee’s obligations to defend, indemnify, and save harmless under this General Provision Number 28 take effect immediately upon issuance of this encroachment permit and have no expiration date, including but not limited to situations in which this encroachment permit expires or is revoked, the work or activity performed under this encroachment permit is accepted or not accepted by the Department, the encroachment, work, and/or activity is conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, and/or no work or activity is undertaken by the Permittee or by others on the Permittee’s behalf.

If the United States or an agency, department, or board of the United States is the Permittee, the first two paragraphs of this General Provision Number 28 (beginning “The Permittee agrees to indemnify...” and “It is the intent of the parties...”) are replaced by the following paragraph:

Claims for personal injury, death, or property damage allegedly caused by the negligent or wrongful act or omission of any employee of the United States acting within the scope of their official duties are subject to the Federal Tort Claims Act, as amended, 28 U.S.C. § 1346 and § 2671 et seq. (Chapter 171).

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:**

**ENCROACHMENT PERMIT GENERAL PROVISIONS**

- 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:** The Permittee is responsible at Permittee's sole expense for the encroachment, and the inspection, maintenance, repair, and condition thereof, so that it does not negatively impact State highway safety, maintenance, operations, construction, activities needed for construction/reconstruction, State facilities, or other encroachments. Additional permits or approval documents may be required authorizing additional work related to inspection, repair, and/or maintenance activities.
32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code section 682.5 and 682.7, 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 United States, 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 is required, as a condition of this encroachment permit, for any event that awards prize compensation to competitors in gendered categories, for any participant level that receives prize compensation, to ensure the prize compensation for each gendered category is identical at each participant level. (Streets and Highways Code, section 682.7.)
- 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 United State, 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 uses and therefore public funds is prohibited under the California Constitution, Article XVI, Section 6.
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. **LANE CLOSURE REQUEST SUBMITTALS AND NOTIFICATION OF CLOSURES TO THE DEPARTMENT:** Lane closure request submittals and notifications must be in accordance with Section 12-4.02, and Section 12.4-04, of the Department's Standard Specifications or as directed by the Department's representative. The Permittee must notify the Department's representative and the Traffic Management Center ("TMC") before initiating a lane closure or conducting an activity that may cause a traffic impact. In emergency situations when the corrective work or the emergency itself may affect traffic, the Department's representative and the TMC 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 traffic lane, bike lane, sidewalk, crosswalk, and/or shoulder 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 Department representative at least five (5) business days before, and the regional notification center at least forty-

**ENCROACHMENT PERMIT GENERAL PROVISIONS**

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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" and Standard Plans & Specifications on "Temporary Pedestrian Access Routes."

39. **STORMWATER:** The Permittee is responsible for full compliance with the following:
- a) For all projects, the Department's Storm Water Program and the Department's National Pollutant Discharge Elimination System (NPDES) Permit requirements under Order No. 2012-0011-DWQ, NPDES No CAS000003; and
  - b) In addition, for projects disturbing one acre or more of soil, with the California Construction General Permit Order No. 2009-0009-DWQ, NPDES No CAS000002; and
  - c) In addition, for projects disturbing one acre or more of soil in the Lahontan Region with Order No. R6T-2016-0010, NPDES No CAG616002.
  - d) For all projects, it is the Permittee's responsibility to install, inspect, repair, and maintain all facilities and devices used for water pollution control practices (Best Management Practices/BMPs) before performing daily work activities.

# STORMWATER SPECIAL PROVISIONS FOR MINIMAL OR NO IMPACT (SWSP)

TR-0400 (Rev 05/2018)

1. **GENERAL:** The purpose of these Special Provisions is to provide the Permittee with specifications for water pollution control to minimize, prevent, or control the discharge of material into the air, surface waters, groundwater, and storm sewers owned by the State or local agencies. These provisions are not intended to take the place of the Caltrans Water Pollution Control Program (WPCP) for projects where soil disturbance from work activities less than one acre, or work activities of one acre or more subject to the preparation of the Caltrans Storm Water Pollution Prevention Plan (SWPPP). The Permittee must comply with the following Special Provisions and the direction of the State Representative. All Stormwater Best Management Practices (BMPs) must conform to Section 13 Water Pollution Control of Caltrans' Standard Specifications.
2. **NPDES REQUIREMENTS:** The Permittee must be responsible for full compliance with the Caltrans Storm Water Program and the Caltrans National Pollutant Discharge Elimination System (NPDES) Permit requirements (*Order No. 2012-0011-DWQ, NPDES No CAS000003*) and for and projects disturbing one acre or more of soil, full compliance with the California Construction General Permit (*Order No. 2009-0009-DWQ, NPDES No CAS000002*) or for projects for projects that have one acre or more of soil disturbance in the Lahontan Region (*Order No. R6T-2016-0010, NPDES No CAG616002*). It is the Permittee's responsibility to install, inspect, and repair or maintain facilities and devices used for water pollution control practices (BMPs) before performing daily work activities. Installation, inspection and maintenance responsibilities on the job site include: 1) soil stabilization materials in work areas that are inactive or prior to storm events, 2) water pollution control devices to control sediment and erosion, 3) implementation of spill and leak prevention procedures for chemical and hazardous substances stored on the job site, 4) material storage, 5) stockpile management, 6) waste management, 7) non-stormwater management, 8) water conservation, 9) tracking controls and 10) illicit connection, illegal discharge detection and reporting. The Permittee must report to the State representative when discharges enter into receiving waters, adjacent property, drainage systems or when discharges could be a cause or a threat for water pollution. The Permittee must also control illicit discharges or illegal dumping prior to start of daily work schedule. Copies of written notices or orders from the Regional Water Quality Control Board or other regulatory agency must be provided to the State representative within 48 hours of reported activity. For additional information on stormwater compliance, visit the State Water Resources Control Boards storm water Website at:  
  
[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater](http://www.waterboards.ca.gov/water_issues/programs/stormwater)
3. **RESPONSIBILITY FOR DEBRIS REMOVAL:** The Permittee must be responsible for preventing sediment, trash, debris, and other construction waste from entering the street, the storm drains, local creeks, or any other bodies of water.
4. **SPOILS AND RESIDUE:** The Permittee must vacuum any saw-cut concrete waste material, debris, residue, etc. No spoils, debris, residue, etc. must be washed into a drainage system.
5. **SWEEPING:** Sweep paved roads at construction entrance and exit locations and surrounding paved areas daily within the job site during: 1) clearing and grubbing, 2) earthwork, 3) trenching, 4) soil disturbance, 5) pavement grinding and/or cutting, and 6) after observing tracking of material onto or off the State property. Keep dust to a minimum during sweeping activities. Use vacuum whenever dust generation is excessive or sediment pickup is ineffective. Roadways or work areas must not be washed down with water. Street sweeping operations must conform to Section 13 Water Pollution Control of Caltrans' Standard Specifications.
6. **VEHICLES AND EQUIPMENT:** Permittee must prevent all vehicles, equipment, etc. from leakage or mud tracking onto roadways. If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.
7. **MAINTENANCE AND FUELING OF VEHICLES AND EQUIPMENT:** Maintenance and fueling of equipment must not result in any pollution at the job site. The Permittee must immediately clean up spills/leaks, and properly dispose of contaminated soil and materials.
8. **CLEANING VEHICLES AND EQUIPMENT:** Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. The Permittee must clean all equipment within a bermed area or over a drip pan large enough to prevent run-off. No soaps, solvents, degreasers, etc. must be used in State right-of-way. Any water from this operation must be collected and disposed of at an appropriate site. Containment berms or dikes must be used for fueling, washing, maintaining and washing vehicles or equipment in outside areas. Containment must be performed at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain. Keep adequate quantities of absorbent spill- cleanup material and spill kits in the fueling or maintenance area and on fueling trucks.
9. **DIESEL FUELS:** The use of diesel fuel from petroleum or other fossil fuel as a form-oil or solvent is not allowed.
10. **WEATHER CONDITIONS AT WORKSITE:** Any activity that would generate fine particles or dust that could be transported off site by stormwater must be performed during dry weather.
11. **WIND EROSION PROTECTION:** The use of Wind Erosion BMPs must be deployed year-round in instances where dust or fine particles could be transported off site.
12. **HOT MIX ASPHALT:** Runoff from washing hot mix asphalt must not enter into any drainage conveyances.
13. **PROTECTION OF DRAINAGE FACILITIES:** The Permittee must protect/cover gutters, ditches, drainage courses, and inlets with gravel bags, fiber rolls, State approved fabric filters, etc., to the satisfaction of the State representative during grading, paving, saw-cutting, etc. and materials must conform to Section 13-6.02 Materials for Water Pollution Control of Caltrans' Standard Specifications. No such protection measures must cause an obstruction to the traveling public. The Permittee must implement spill and leak prevention procedures for chemicals and hazardous substances stored on the job site (including secondary containment requirements) in accordance to section 13-4.03B Spill Prevention and Control, and 14-11 Hazardous Waste and Contamination, Water Pollution Control of Caltrans' Standard Specifications.
14. **PAINT:** Rinsing of painting equipment and materials is not permitted in State right-of-way. When thoroughly dry, dispose of



the following as solid waste: dry latex paint, paint cans, used brushes, rags, gloves, absorbent materials, and drop cloths. Oil based paint sludge and unusable thinner must be disposed of at an approved hazardous waste site.

15. **CONSTRUCTION MATERIALS:** Stockpile of all construction materials, including, but not limited to; pressure treated wood, asphalt concrete, cold mix asphalt concrete, concrete, grout, cement containing premixes, and mortar, must conform to section 13-4.03C (2) Material Storage & 13-4.03C (3) Stockpile Management of Caltrans' Standard Specifications.
16. **CONCRETE EQUIPMENT:** Concrete equipment must be washed in a designated washing area in a way that does not contaminate soil, receiving waters, or storm drain systems.
17. **EXISTING VEGETATION:** Established existing vegetation is the best form of erosion control. Minimize disturbance to existing vegetation. Damaged or removed vegetation must be replaced as directed by the State Representative.
18. **SOIL DISTURBANCE:** Soil disturbing activities must be avoided during the wet weather season. If construction activities during wet weather are allowed in your permit, all necessary erosion control and soil stabilization measures must be implemented in advance of soil disturbing activity.
19. **SLOPE STABILIZATION AND SEDIMENT CONTROL:** Consider a certified expert in Erosion and Sediment control in cases where slopes are disturbed during construction. The Permittee is directed to comply with Section 13.5 Temporary Soil Stabilization and Section 21 Erosion Control of Caltrans' Standard Specifications during application of temporary soil stabilization measures to the soil surface. Fiber rolls or silt fences may be required down slope until permanent soil stabilization is established. Remove the accumulated sediment whenever the sediment accumulates to 1/3 of the linear sediment barrier height. The Permittee must limit the use of plastic materials when more sustainable, environmentally friendly alternatives exist or when environmental regulations prohibit their use within the project.
20. **STOCKPILES:** Stockpiles containing aggregate and/or soil must be stored at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain, and must be covered and protected with a temporary perimeter sediment barrier. Cold mix stockpiles must be stored on an impermeable surface and covered with 9 mil plastic to prevent contact with water. Minimize stockpiling of materials on the job site. Manage stockpiles by implementing the water pollution control practices in Section 13-4.03C (3) Stockpile Management of the State of California standard specifications for construction.
21. **DISCOVERY OF CONTAMINATION:** The State Representative must be notified in case any unusual discoloration, odor, or texture of ground water, is found in excavated material or if abandoned, underground tanks, pipes, or buried debris are encountered.
22. **SANITARY AND SEPTIC WASTE:** Do not bury or discharge wastewater from a sanitary or septic system within the highway. Properly connected sewer facilities are free from leaks. With State Representative approval place portable sanitary facility at least 50 feet away from storm drains, receiving waters, and flow lines. Permittee must comply with local health agency provisions when

using an on-site disposal system.

23. **LIQUID WASTE:** Prevent job site liquid waste from entering storm drain systems and receiving waters. Drilling slurries, grease or oil-free waste water or rinse water, dredging, wash water or rinse water running off a surface or other non-storm water liquids not covered under separate waste water permits must be held in structurally sound, leak-proof containers, such as portable bins or portable tanks. Store containers at least 50 feet away from moving vehicles and equipment. Liquid waste may require testing to determine hazardous material content prior to disposal. All measures must conform to section 13-4.03D (5) Liquid Waste, Water Pollution Control of Caltrans' Standard Specifications.
24. **WATER CONTROL AND CONSERVATION:** Manage water use in a way that will prevent erosion and the discharge of pollutants into storm drain systems and receiving waters. Direct runoff, including water from water line repair from the job site to areas where it can infiltrate into the ground. Direct water from off-site sources around the job site or from contact with jobsite runoff.
25. **PILE DRIVING:** Keep spill kits and cleanup materials at pile driving locations. Park pile driving equipment over drip pans, absorbent pads, or plastic sheeting with absorbent material, and away from stormwater run-on when not in use.
26. **DEWATERING:** Dewatering consists of discharging accumulated storm water, groundwater, or surface water from excavations or temporary containment facilities. All dewatering operations must comply with the latest Caltrans guidelines including the Field Guide for Construction Site Dewatering. Contact State representative for approval of dewatering discharge by infiltration or evaporation, otherwise, any effluent discharged into a permitted storm water system requires approval from the Regional Water Quality Control Board. Prior to the start of dewatering, the Permittee must provide the State Representative with a dewatering and discharge work plan that complies with section 13-4.03G Dewatering, Water Pollution Control of Caltrans' Standard Specifications. A copy of the Waste Discharge Permit and a copy of a valid WDID number issued by the Regional Board must be provided to the State representative.

## DISTRICT 5 NOTIFICATION REQUIREMENTS

The following provisions shall apply to all permit work requiring temporary lane closures or traffic detours:

### Temporary Lane Closures

Notification of temporary lane closures or traffic detours shall be given to the State Inspector for his approval using copies of the attached form entitled, **WEEKLY TRAFFIC UPDATE**. Notification shall be submitted to the State Inspector by 12:00 PM (noon) Tuesday, prior to the week of the proposed closure or detour. Notifications submitted after the deadline cannot be approved for the upcoming week. **All traffic control requiring the temporary closure of lanes or detour of traffic shall be approved in advance by the State Inspector.**

### Ramp Closures

14 to 7 calendar days prior to an approved ramp closure, notice shall be posted at the ramp entrance using the appropriate SC6 sign. In addition, an SC8 or portable changeable message sign shall be posted for the preceding ramp the day of the closure unless otherwise approved by the Caltrans Permit Inspector.

### Caltrans Lane Closure System (LCS) Compliance

Work authorized by this permit may require compliance and proper notification in LCS.

If not identified elsewhere in this permit, you or your contractor must provide the contact information for two personnel, who will be ensuring LCS compliance during the pre-job meeting with the Caltrans Permit Inspector. Contact information shall include personnel's full names, phone numbers and email addresses.

When LCS Compliance is identified as a parent permit requirement, the contractor's double permit application must provide the contact information for two personnel, who will be ensuring LCS compliance on item 17 (description of work) of the Standard Encroachment Permit Application TR-0100. Double permit applications missing the LCS contacts will be rejected.

You or your Contractor will be required to properly notify the District Traffic Management Center (TMC) as described below.

When a lane closure or lane shift has been identified by the Inspector with a Lane Closure ID # and Log #, you will be required to provide the TMC notification status when you are placing the lane closure, when you remove the lane closure, or when you cancel the lane closure.

When providing the status of the lane closure to the TMC you will need to follow these steps,

1. **Obtain the Lane Closure ID and Log # assigned for the approved scheduled lane closure event from the Caltrans Permit Inspector** a minimum of one weekday prior to the closure day or duration.

2. Call the TMC/Lane Closure Phone Number (805) 549-3837 to provide the Lane Closure ID Status

- "1097"- Lane closure work starting (1<sup>st</sup> Cone Placed);
- "1098"- Lane closure work complete (Last Cone Picked Up);
- "1022"- Lane closure work cancelled;

When calling the TMC to provide the status on your lane closure you will say something to the effect of (substituting your lane closure ID number and Log number for example ID "P101CA" and Log number "1" below),

- "1097"- *"This is (your name, phone number) calling to provide a 1097 status to lane closure ID P101CA and log number 1. That is a 1097 for Papa 101 Charlie Alpha log number 1."*
- "1098"- *"This is (your name, phone number) calling to provide a 1098 status to lane closure ID P101CA, log number 1. That is a 1098 for Papa 101 Charlie Alpha log number 1."*
- "1022"- *"This is (your name, phone number) calling to provide a 1022 status to lane closure ID P101CA, log number 1. That is a 1022 for Papa 101 Charlie Alpha log number 1."*

Failure to properly status the lane closures will result in a written warning by the Caltrans Permit Inspector on the first violation. If there is a 2<sup>nd</sup> violation, your permit will either be revoked or suspended until a new double permit is obtained by a Contractor (C-31 or General Engineering A License preferred) who is experienced in traffic control and LCS notification; the contractor applying for this double permit must provide a performance and payment bond in the amount of \$10,000 unless there is already a bond posted or required on the project.

You can check your lane closure status at the following website:

<https://lcswebreports.dot.ca.gov/>

**Special Notifications**

If permitted activities such as road closures or traffic detours may result in significant traffic congestion, Permittee shall be responsible for coordinating advance notification to local newspapers, television and radio stations, and emergency response providers with both the State Inspector and the Caltrans Public Information Officer, telephone (805) 549-3237. Public notice may include press releases and/or traffic signing.

Permittee shall complete and submit the attached form entitled **PUBLIC AFFAIRS – PERMITTED ACTIVITY NOTIFICATION** to the Caltrans Public Affairs Office prior to 12:00 PM (noon) the Wednesday prior to the approved closure or event. Additional information or clarification may be required in the form of a written description of the activities in a format that is suitable for a press release. The form may be delivered by fax to (805) 549-3638 or emailed to the PIO contact on the form.

### **Horizontal and Vertical Requirements for Extra-Legal Load Vehicles**

Permittee shall provide written notification to the Caltrans Permit Inspector or Caltrans Representative, of proposed horizontal or vertical lane restrictions which will affect extra-legal loads up to 16' wide and 18' high, or ramp closures/re-openings that may affect extra-legal loads traveling through the project area. Said notification shall be delivered to the Inspector no fewer than 25 days prior to proposed change. Permittee shall immediately notify the Caltrans Permit Inspector or Caltrans Representative as soon as the restriction is no longer present.



## WEEKLY TRAFFIC UPDATE

### PERMITS

**For the Week of:** \_\_\_\_\_

Please send this form to your designated **PERMIT INSPECTOR** each week if you will be performing work that will impact traffic (lane closures, ramp closures, traffic control, etc.)

**Weekly Traffic Updates must be received by Tuesday 12:00 PM (noon) the week prior to the requested date(s) of the planned traffic control. Failure to meet the deadline may result in the denial of the requested traffic control.** The State Permit Inspector may also require changes to the requested traffic control prior to its approval.

We appreciate your cooperation. These updates need to be done in a timely manner to provide information to the traveling public we serve. THANKS!!!!

| DATE | TIME<br>(begin / end) | Location – Cross Streets, County<br>Route, and Post Mile (from / to) | Impact on Traffic<br>(Description) | Reason |
|------|-----------------------|--|------------------------------------|--------|
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |
|      |                       |  |                                    |        |

Send or fax to: **Your PERMIT INSPECTOR- Jim McKrell / Romano Verlengia, Fax #: as shown on map, Email: as shown on map**

Your Name: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

Company/Dept.: \_\_\_\_\_

Email: \_\_\_\_\_

PERMIT #: 0522 NUE 0034

# PUBLIC AFFAIRS - PERMITTED ACTIVITY NOTIFICATION

This Project Notification should be faxed or e-mailed to Public Affairs as early as possible and preferably by noon the Wednesday prior to beginning of permitted activity. Please fill out this form as thoroughly as possible and use additional paper if needed. Include all information that the traveling public may need to be made aware of.

TO: PUBLIC AFFAIRS

FAX: (805) 549-3326

ATTN:  Kevin Drabinski (Monterey, San Benito, and Santa Cruz Counties)

PHONE: (805) 549-3138

E-Mail: [kevin.drabinski@dot.ca.gov](mailto:kevin.drabinski@dot.ca.gov)

Jim Shivers (San Luis Obispo and Santa Barbara Counties)

PHONE: (805) 549-3237

E-Mail: [jim.shivers@dot.ca.gov](mailto:jim.shivers@dot.ca.gov)

PERMIT NUMBER: **0522 NUE 0034**

COUNTY, ROUTE & POSTMILE: **05-SLO-VAR-VAR**

LIMITS OF PERMITTED ACTIVITY (location in miles, distance from nearest landmarks or cities, etc.):

PROJECT DESCRIPTION AND PURPOSE FOR PROJECT:

General annual maintenance permit for existing County of San Luis Obispo Public Works utilities and owned facilities in Caltrans conventional highways rights of way as allowed by the Caltrans Permit Inspector and as directed by the permit provisions in various State Routes and postmiles in the County of San Luis Obispo.

ACTIVITY COORDINATOR:

PHONE:

FAX:

E-MAIL:

BEGIN ACTIVITY DATE:

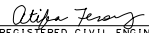
END ACTIVITY DATE:

ANTICIPATED TRAFFIC CONTROL:

ANTICIPATED TRAFFIC DELAYS:

COMMENTS: (What else does the public need to know? Diagrams, maps also helpful.)

\*Please inform Public Affairs of any changes to the above information by submitting an updated form.

|  |        |       |                             |              |                 |
|--|--------|-------|-----------------------------|--------------|-----------------|
| Dist   | COUNTY | ROUTE | POST MILES<br>TOTAL PROJECT | SHEET<br>NO. | TOTAL<br>SHEETS |
|  |        |       |                             |              |                 |
| <br>REGISTERED CIVIL ENGINEER   |        |       |                             |              |                 |
| May 31, 2018<br>PLANS APPROVAL DATE  |        |       |                             |              |                 |
| THE STATE OF CALIFORNIA OR ITS OFFICERS<br>OR AGENTS SHALL NOT BE RESPONSIBLE FOR<br>THE ACCURACY OR COMPLETENESS OF SCANNED<br>COPIES OF THIS PLAN SHEET. |        |       |                             |              |                 |

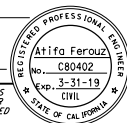


TABLE 1

| SPEED<br>(S) | MINIMUM TAPER LENGTH *<br>FOR WIDTH OF OFFSET 12 FEET (W) |              |                 |                 | MAXIMUM CHANNELIZING<br>DEVICE SPACING |         |          |
|--------------|---|--------------|-----------------|-----------------|--|---------|----------|
|              | TANGENT<br>2L   | MERGING<br>L | SHIFTING<br>L/2 | SHOULDER<br>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

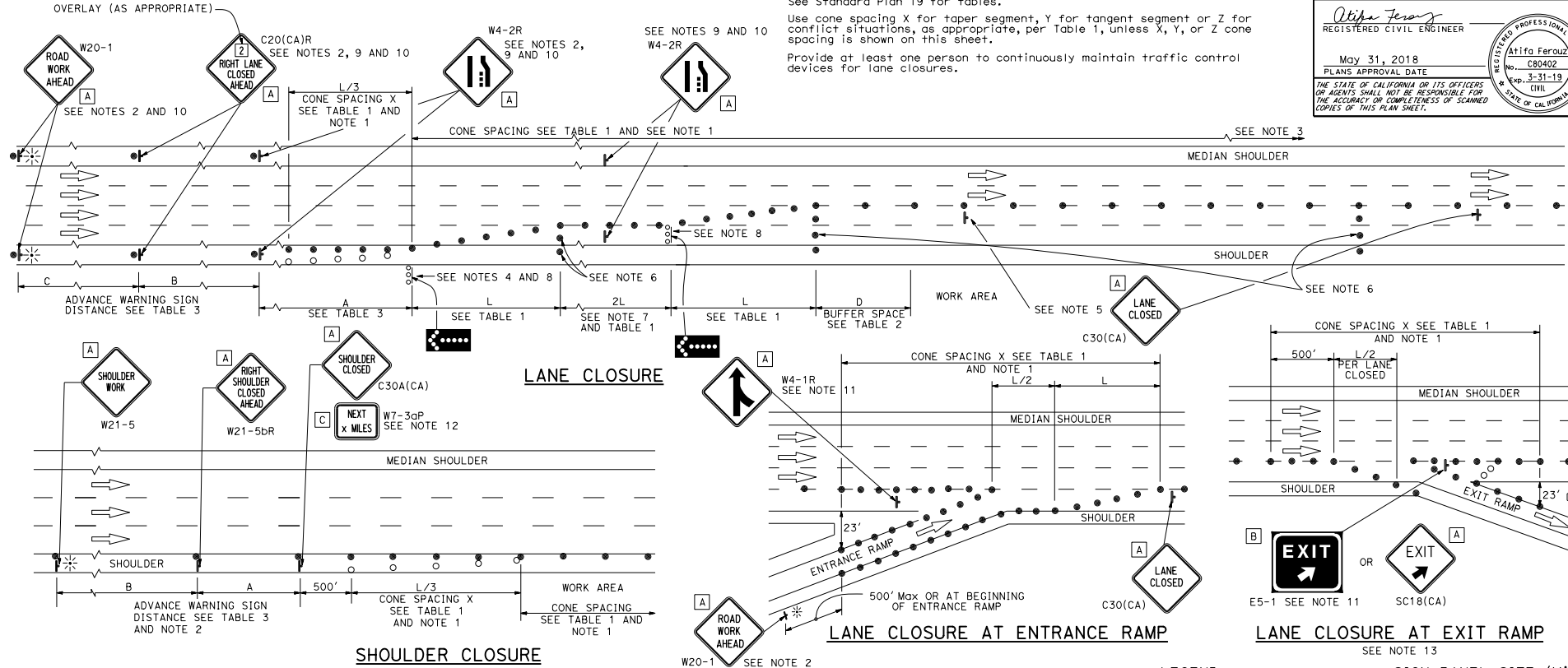
| ROAD TYPE                          | DISTANCE BETWEEN SIGNS * |      |      |
|------------------------------------|--------------------------|------|------|
|                                    | A                        | B    | C    |
|                                    | ft                       | 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



- 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, 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 ZL 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)L 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.

**NOTES:**

See Standard Plan 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 |
|------|--------|-------|--------------------------|-----------|--------------|

Atifa Ferouz  
REGISTERED CIVIL ENGINEER  
No. C80402  
EXP. 3-31-19  
CIVIL

PLANS APPROVAL DATE  
May 31, 2018

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.

**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

T10



NOTES:

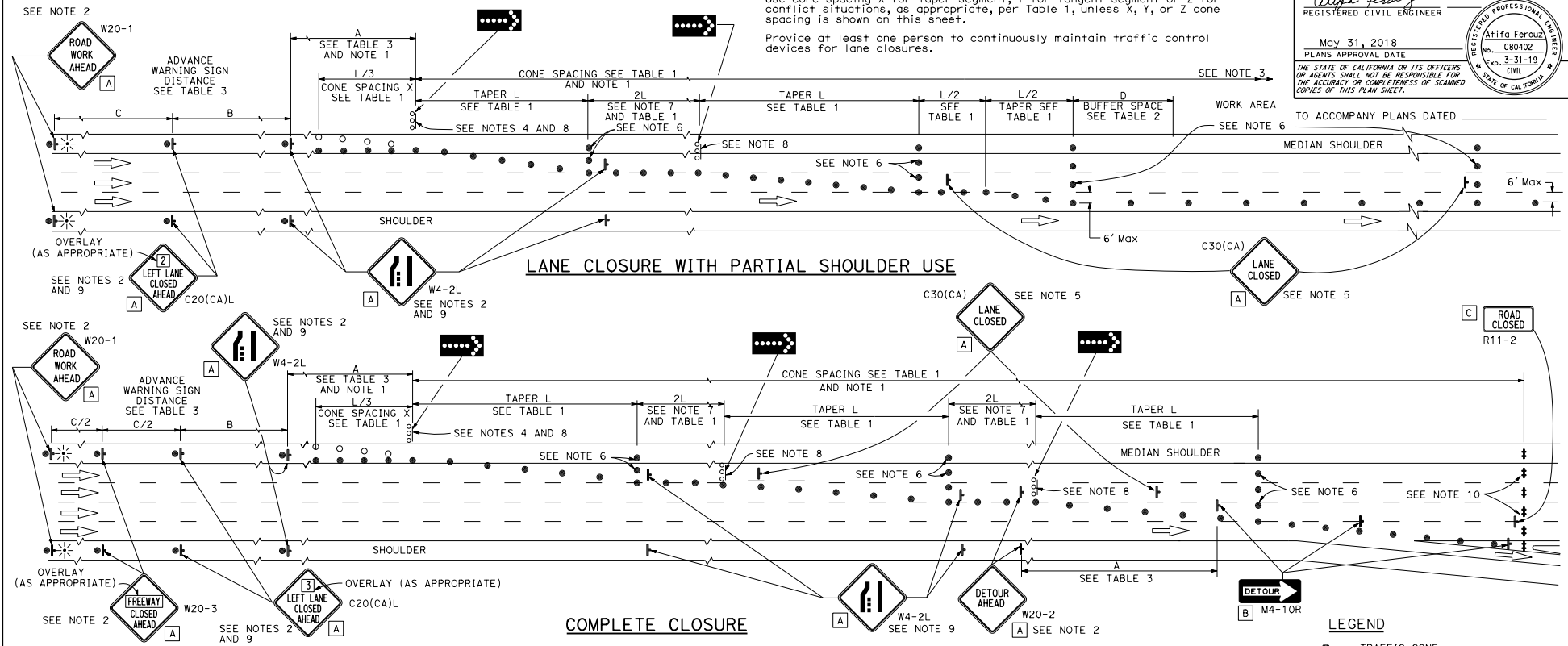
See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.

| Dist* | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|--------------------------|-----------|--------------|
|       |        |       |                          |           |              |

Atifa Ferouz  
 REGISTERED CIVIL ENGINEER  
 No. C80402  
 Exp. 3-31-19  
 CIVIL

May 31, 2018  
 PLANS APPROVAL DATE

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LANE CLOSURE WITH PARTIAL SHOULDER USE

COMPLETE CLOSURE

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, 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.
- 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.
- Place a C30(CA) sign every 1000' throughout length of lane closure.
- 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.
- The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be Type I.
- 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.
- 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

T10A

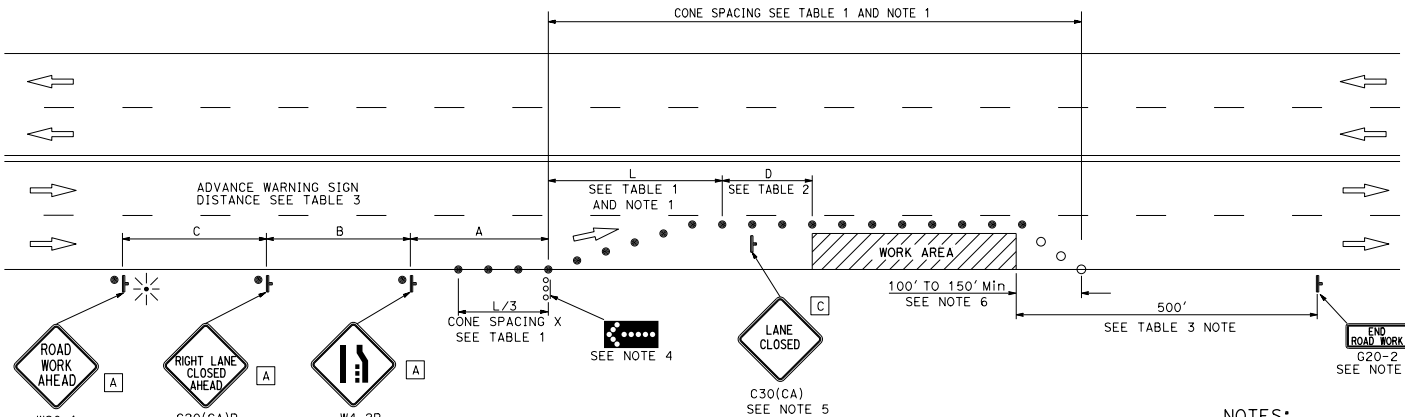
|      |        |       |                          |           |              |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|      |        |       |                          |        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

Atifa Ferouzi  
REGISTERED CIVIL ENGINEER

May 31, 2018  
PLANS APPROVAL DATE

Atifa Ferouzi  
No. C80402  
EXP. 3-31-19  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
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.



TYPICAL LANE CLOSURE

NOTES:

- See Standard Plan 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:

- 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.
- 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.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Length may be reduced by the Engineer to address site conditions.
- Median lane closures shall conform to the details shown except that C20(CA)L and W4-2L signs shall be used.
- 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

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"

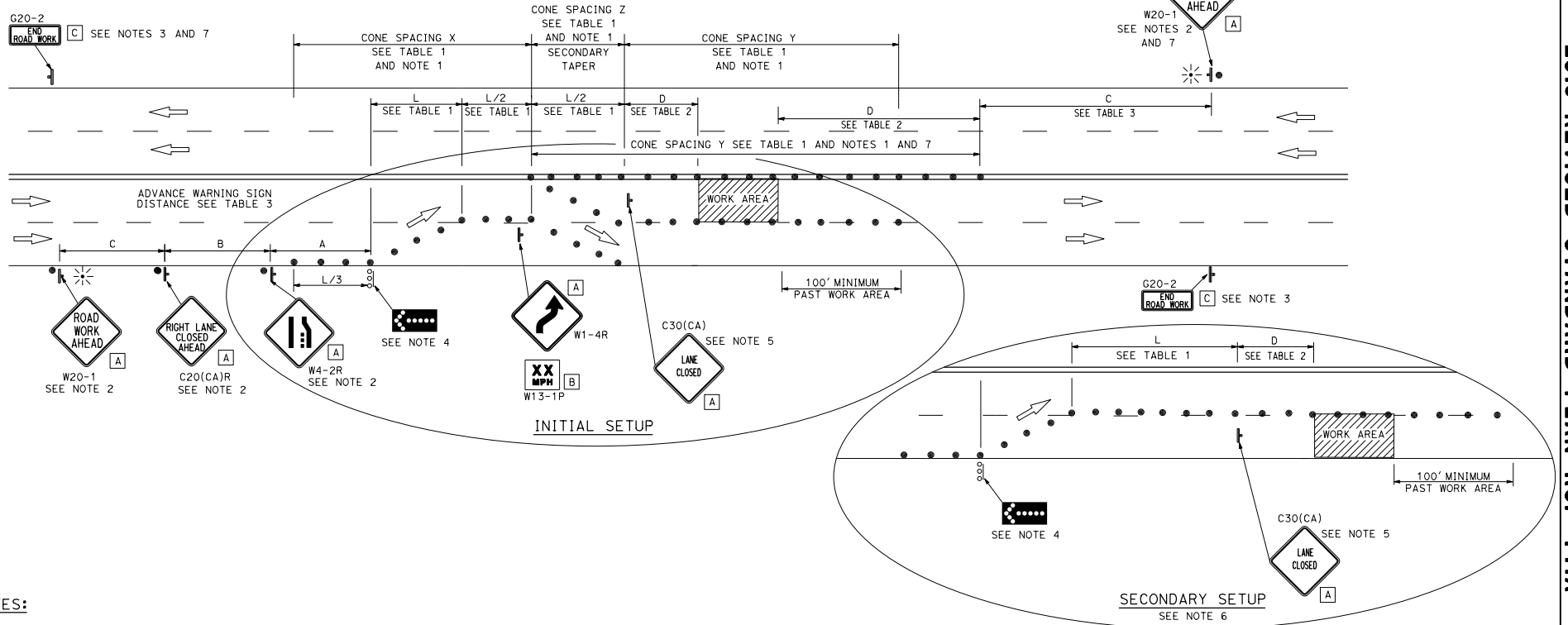
**NOTES:**

See Standard Plan 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 |
|------|--------|-------|--------------------------|-----------|--------------|
|      |        |       |                          |           |              |

*Atifa Ferouzi*  
 REGISTERED CIVIL ENGINEER  
 October 18, 2019  
 PLANS APPROVAL DATE  
 No. C80402  
 EXP. 3-31-21  
 CIVIL  
 STATE OF CALIFORNIA

**TYPICAL CHANGEABLE LANE CLOSURE**



**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 beacon 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.
- 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.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Relocate secondary taper to tangent location and relocate C30(CA) sign. Remove W1-4R/W13-1P sign package.
- Sign installations and cones are not required when a median barrier is in place.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
FOR CHANGEABLE LANE CLOSURE ON  
MULTILANE CONVENTIONAL  
HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T11A DATED OCTOBER 18, 2019 SUPERSEDES STANDARD PLAN T11A  
DATED MAY 31, 2018 - PAGE 289 OF THE STANDARD PLANS BOOK DATED 2018.

**REVISED STANDARD PLAN RSP T11A**

2018 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:**

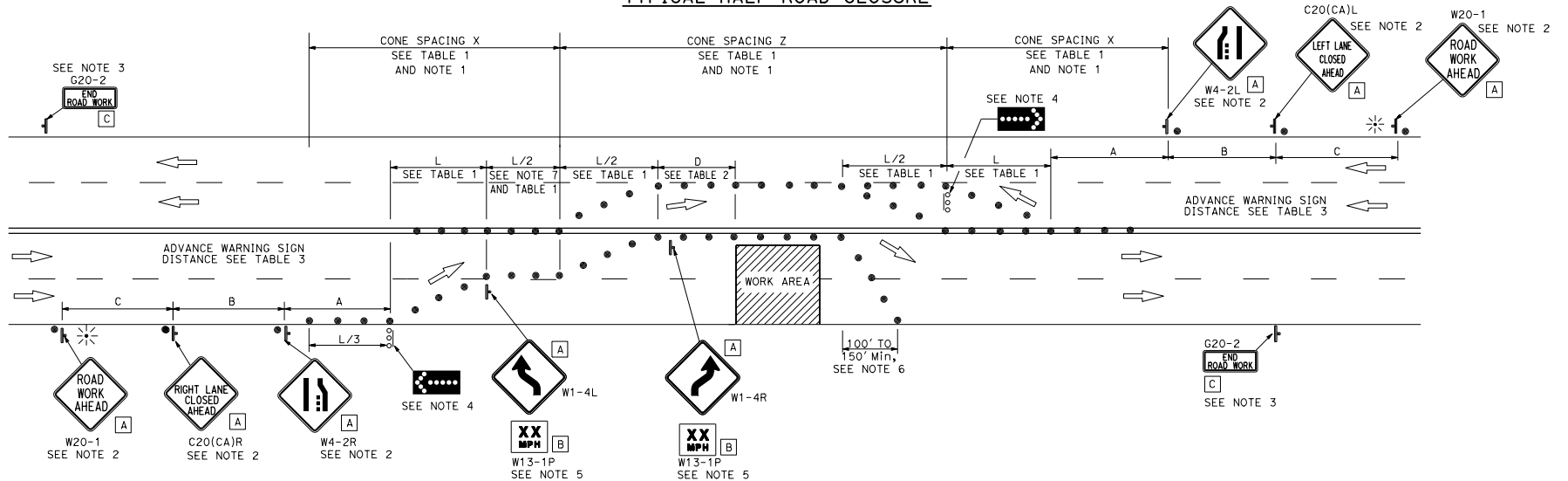
See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.

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

*Atifa Ferouz*  
 REGISTERED CIVIL ENGINEER  
 No. C80402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: May 31, 2018  
 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 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

**T12**

**NOTES:**

See Standard Plan 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 TOTAL No. SHEETS |
|      |        |       |                          |                        |

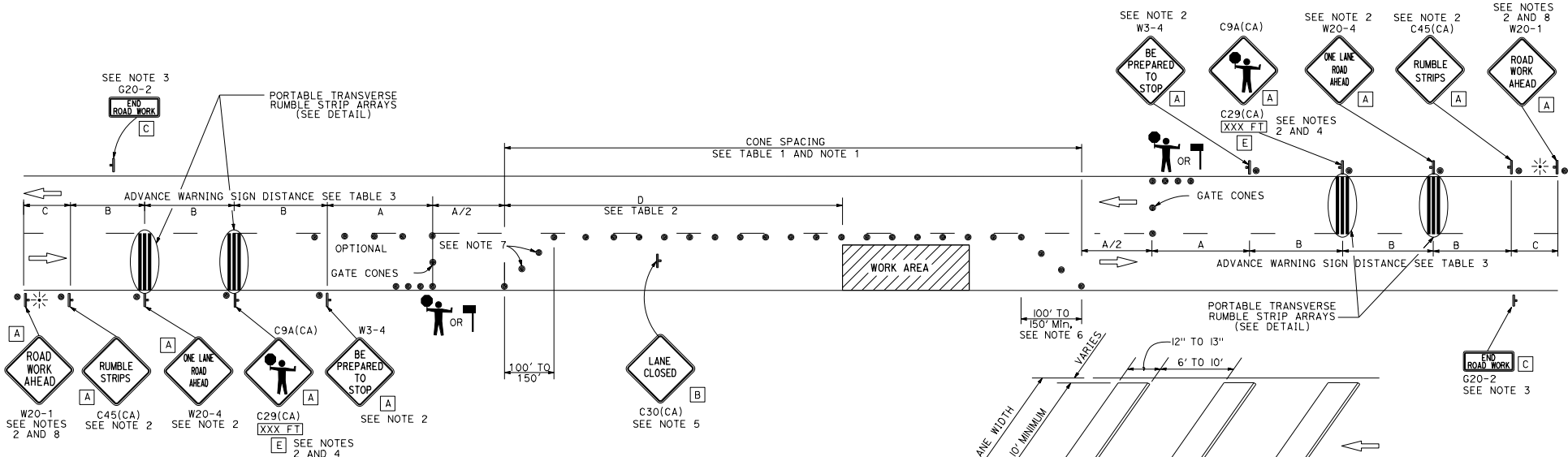
Atifa Ferouz  
REGISTERED CIVIL ENGINEER

April 16, 2021  
PLANS APPROVAL DATE

No. C80402  
EXP. 3-31-23  
CIVIL

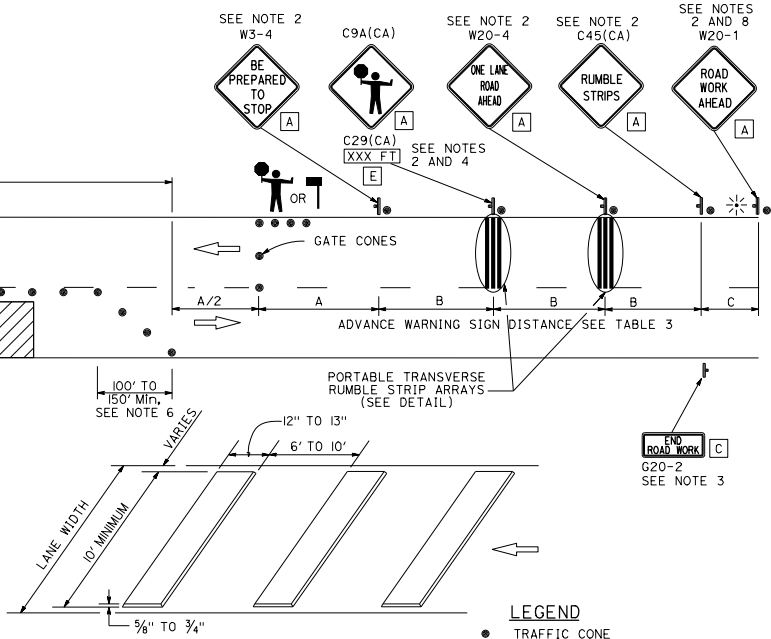
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED \_\_\_\_\_



**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. Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures 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. An optional C29(CA) sign may be placed below the C9A(CA) sign.
5. 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.
6. Length may be reduced by the Engineer to address site conditions.
7. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
8. If C45(CA) is not used, measure distance C from W20-4.



**LEGEND**

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 👤 FLAGGER
- ⊥ AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

**SIGN PANEL SIZE (Min)**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
WITH REVERSIBLE CONTROL ON  
TWO LANE CONVENTIONAL  
HIGHWAYS**

NO SCALE

RSP T13 DATED APRIL 16, 2021 SUPERSEDES RSP T13 DATED OCTOBER 18, 2019 AND STANDARD PLAN T13 DATED MAY 31, 2018 - PAGE 291 OF THE STANDARD PLANS BOOK DATED 2018.

**REVISED STANDARD PLAN RSP T13**

2018 REVISED STANDARD PLAN RSP T13

**LEGEND:**

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚛 TRAILER
- 👤 FLAGGER
- PCMS** PORTABLE CHANGEABLE MESSAGE SIGN

**SIGN PANEL SIZE (Min):**

**A** 48" x 48"

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

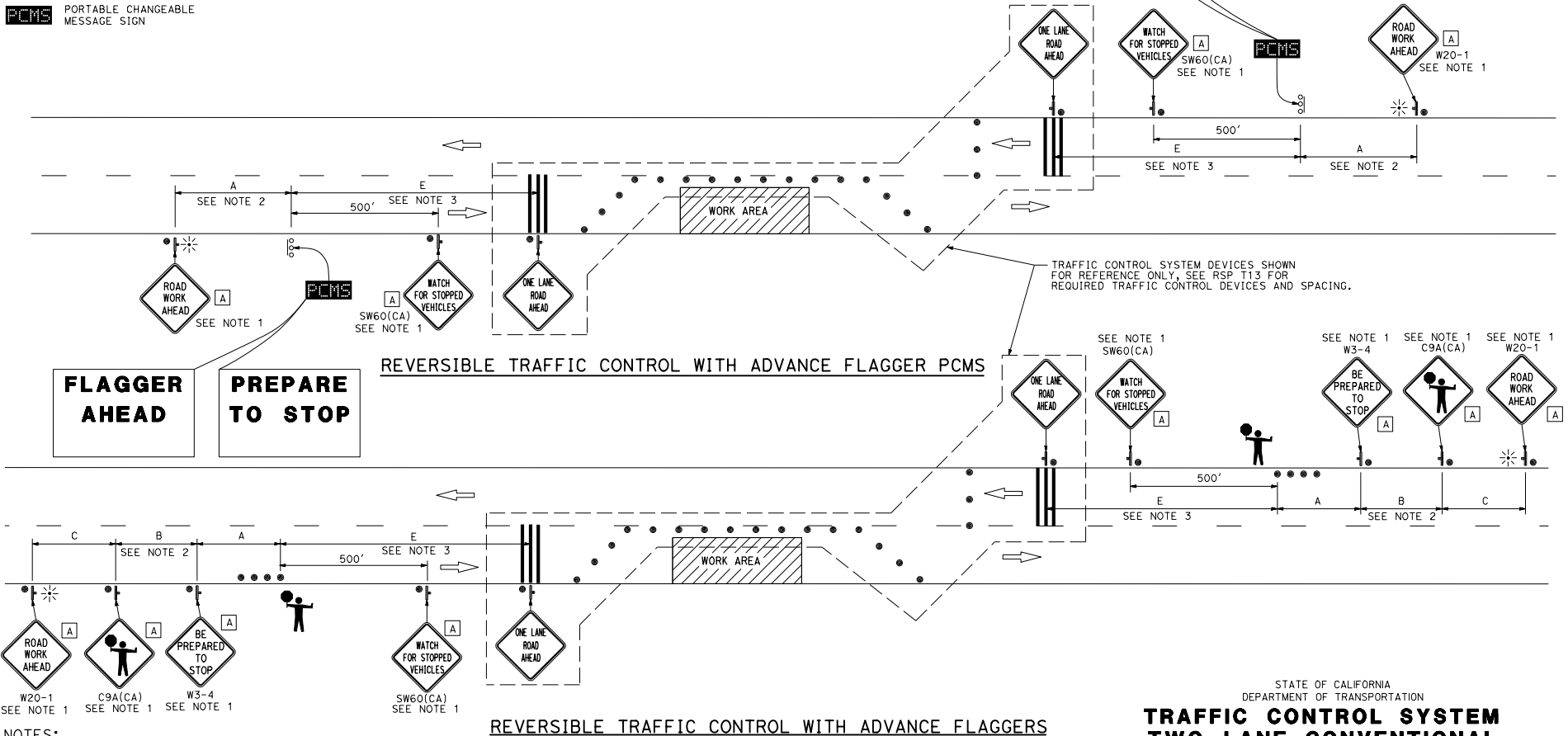
*Atifa Ferouz*  
REGISTERED CIVIL ENGINEER

April 16, 2021  
PLANS APPROVAL DATE

No. C80402  
EXP. 3-31-23  
CIVIL

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TO ACCOMPANY PLANS DATED \_\_\_\_\_



**NOTES:**

1. Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
2. See Standard Plan T9, Table 3 for advanced warning sign spacing.
3. See Standard Specification 12-4.02C.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM**  
**TWO LANE CONVENTIONAL**  
**HIGHWAYS**  
NO SCALE

RSP T13A DATED APRIL 16, 2021 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2018.

**REVISED STANDARD PLAN RSP T13A**

2018 REVISED STANDARD PLAN RSP T13A

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

Atifa Ferouzi  
REGISTERED CIVIL ENGINEER

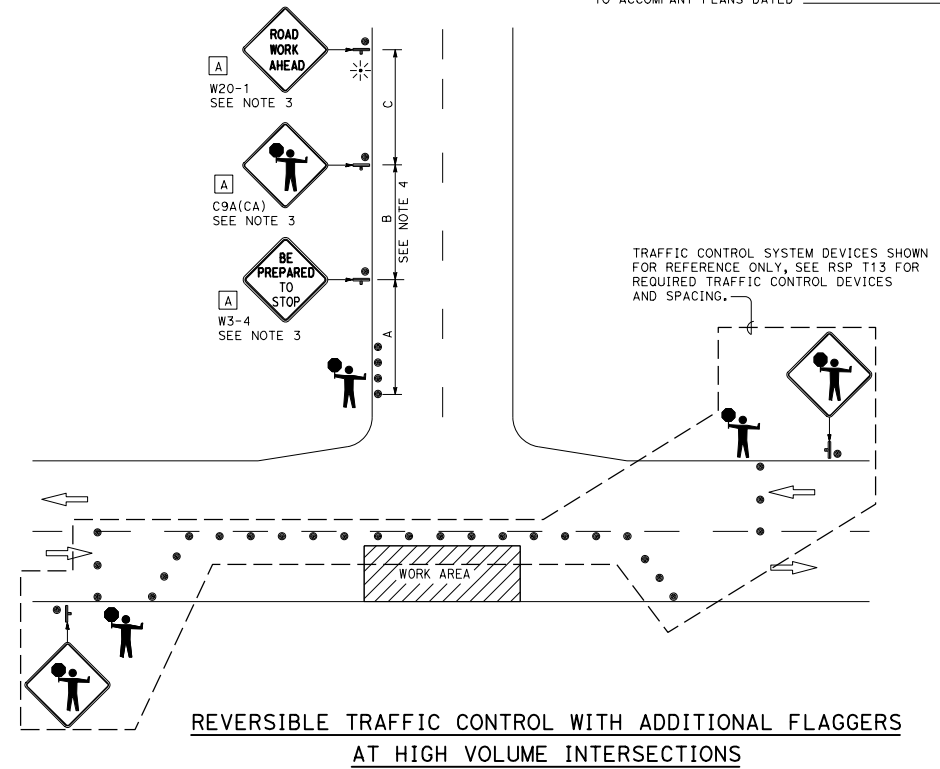
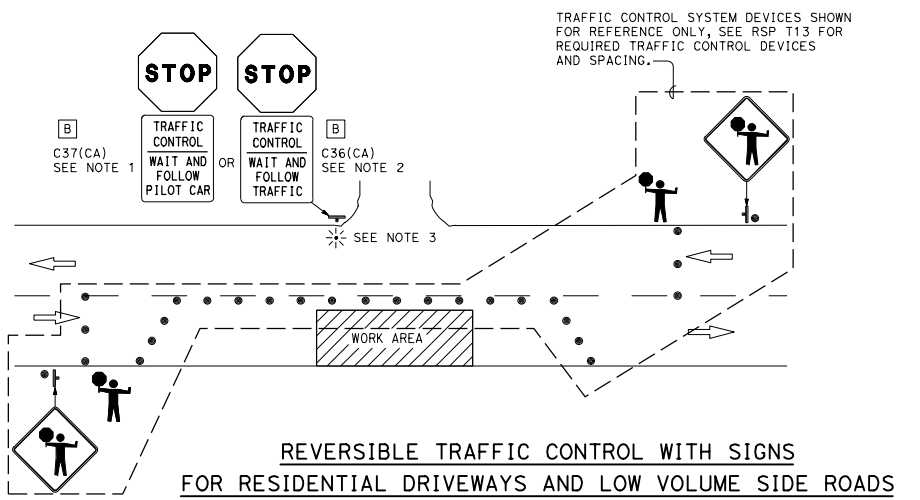
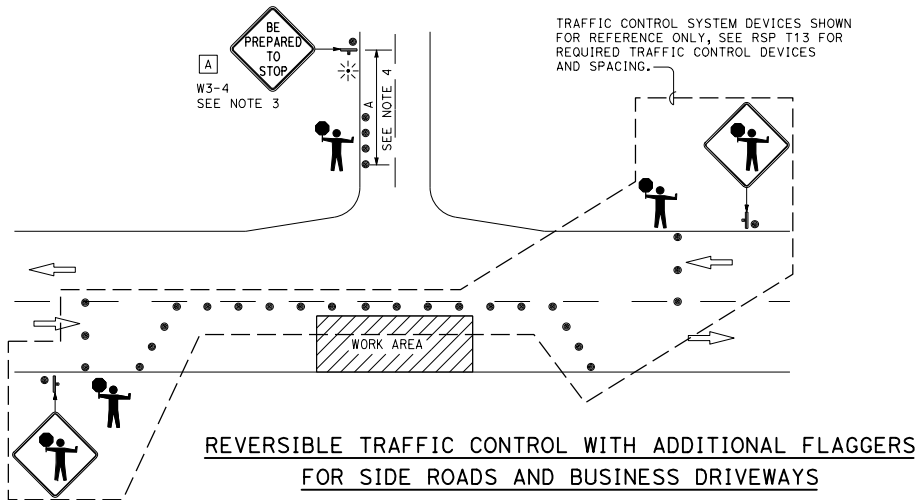
April 16, 2021  
PLANS APPROVAL DATE

Atifa Ferouzi  
No. CB0402  
Exp. 3-31-23  
CIVIL  
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED \_\_\_\_\_

2018 REVISED STANDARD PLAN RSP T13B



**NOTES:**

- Place C37(CA) sign when pilot car is used.
- Place C36(CA) sign when pilot car is not used.
- Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
- See Standard Plan T9, Table 3 for advance warning sign spacing.

**LEGEND:**

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

**SIGN PANEL SIZE (Min)**

- A** 48" x 48"
- B** 36" x 42"

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
TWO LANE CONVENTIONAL HIGHWAYS**

NO SCALE

RSP T13B DATED APRIL 16, 2021 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2018.  
**REVISED STANDARD PLAN RSP T13B**

# TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

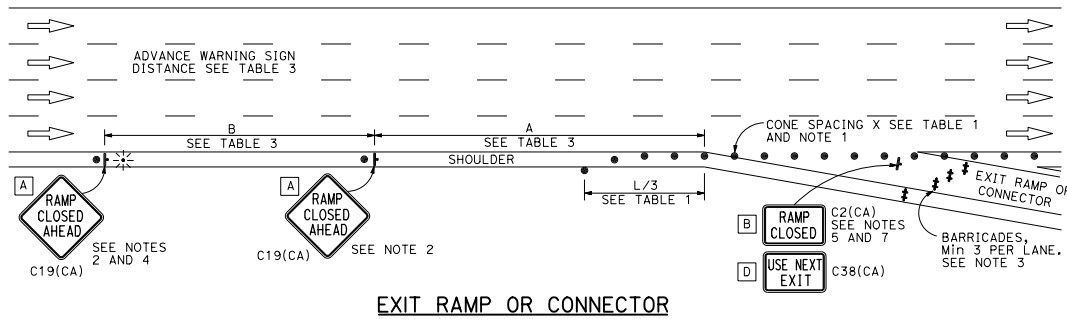
## LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⊥ BARRICADES
- ⊛ PORTABLE FLASHING BEACON

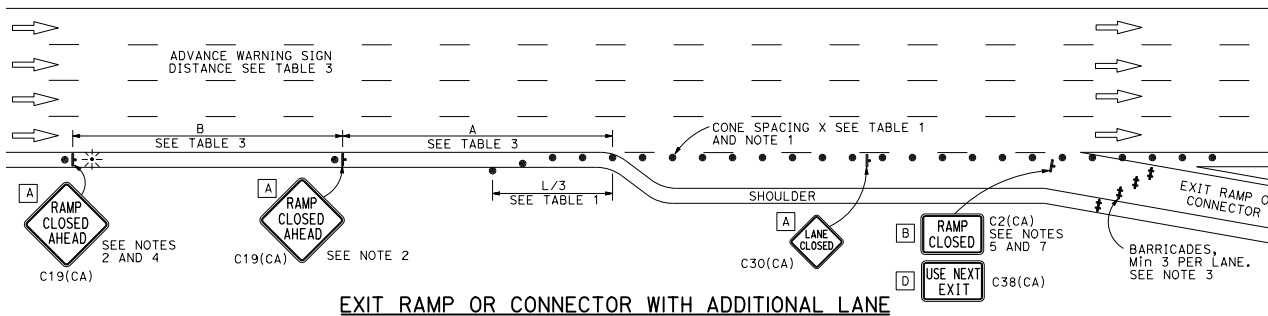
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
|      |        |       |                          |           |              |

*Atifa Ferouz*  
 REGISTERED CIVIL ENGINEER  
 No. C80402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

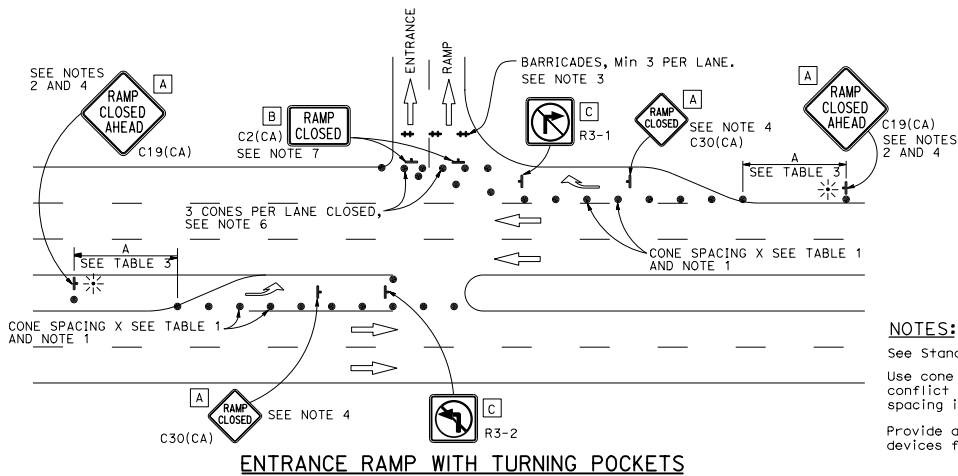
May 31, 2018  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



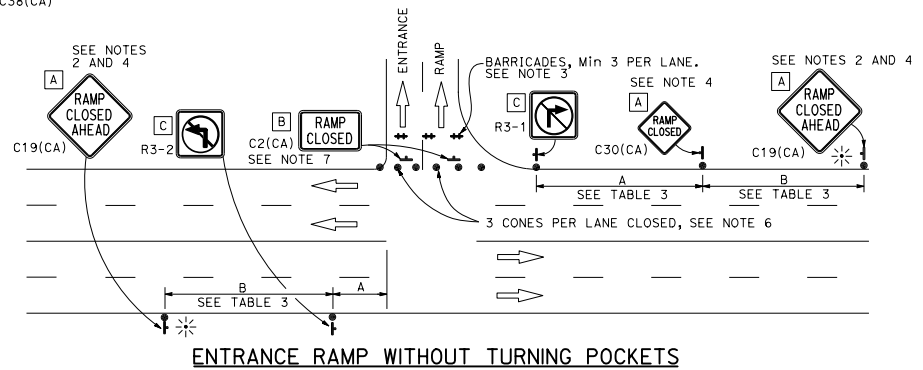
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## 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 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.
3. 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.
4. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black 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.
5. The existing "EXIT" signs shall be covered during ramp closures.
6. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.
7. C2(CA) sign shall be black and white.

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

T14

2018 STANDARD PLAN T14



**NOTES:**

1. Only signs related to pedestrians are shown. For all other signs see appropriate T-sheets.
2. Barricades closing sidewalk shall cover the full width of the sidewalk. Use R9-11 sign when there are destination points between the detour and the work area. Locate the R9-11 sign to allow pedestrian access.
3. Advance warning sign is not required if the work area is within the limits of a larger work zone. Sign shall be equipped with at least two flags for daytime closure. Each flag shall be be orange or fluorescent red-orange in color.

**NOTES:**

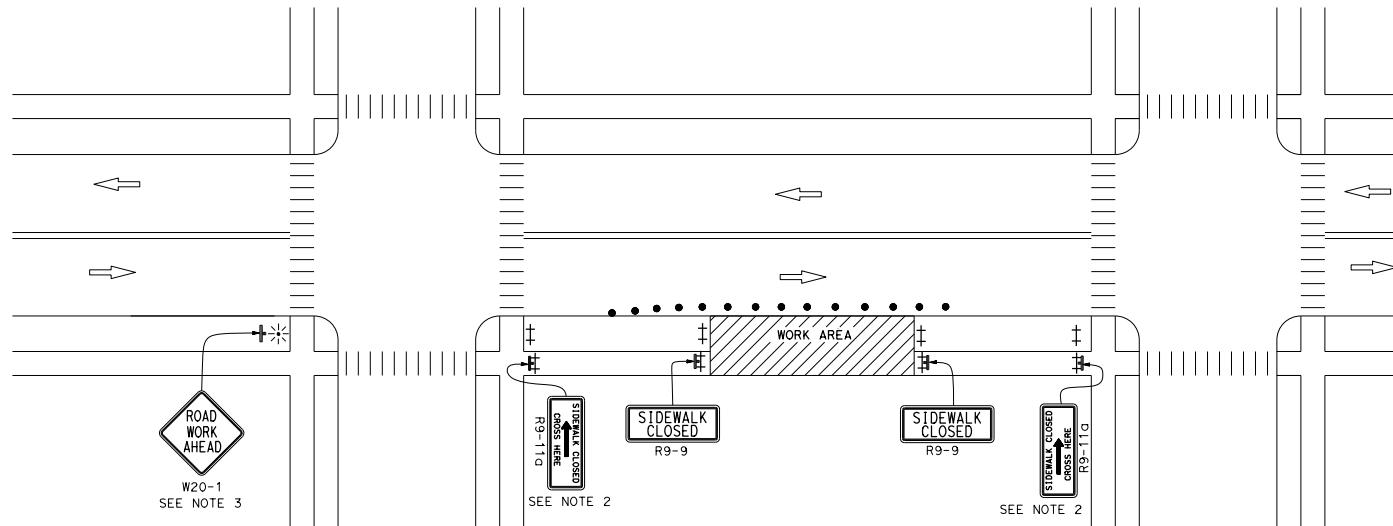
See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1 unless X,Y, or Z cone spacing is shown on this sheet.

|      |        |       |                             |           |              |
|------|--------|-------|-----------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES<br>TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|-----------------------------|-----------|--------------|

Atifa Ferouz  
 REGISTERED CIVIL ENGINEER  
 No. C80402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

May 31, 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.



**LEGEND:**

- ⊕ BARRICADE
- TRAFFIC CONE
- ⚡ PORTABLE FLASHING BEACON
- ⊥ SIGN
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN ON BARRICADE

**SIGN PANEL SIZE (Min)**

| SIGN DESIGNATION | SIGN OR PLAQUE                   | SIGN SIZE |
|------------------|----------------------------------|-----------|
| R9-9             | SIDEWALK CLOSED                  | 24" x 12" |
| R9-11            | SIDEWALK CLOSED AHEAD CROSS HERE | 24" x 18" |
| R9-11a           | SIDEWALK CLOSED CROSS HERE       | 24" x 12" |
| W20-1            | ROAD WORK AHEAD                  | 36" x 36" |

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY PEDESTRIAN ACCESS ROUTES  
 TYPICAL SIDEWALK CLOSURE  
 AND PEDESTRIAN DETOUR**  
 NO SCALE

**T30**

**NOTES:**

1. Only signs related to pedestrians are shown. For all other signs see appropriate T-sheets.
2. Separate pedestrian walkway from traffic and work zone activities, when temporary walkway is adjacent to traffic.
3. The temporary pedestrian access route must not lead into conflict with vehicles or work.
4. Advance warning sign is not required if the work area is within the limits of a larger work zone. Sign shall be equipped with at least two flags for daytime closure. Each flag shall be orange or fluorescent red-orange in color.
5. All devices used to channelize pedestrian flow must connect such that gaps do not allow pedestrians to stray from the channelized path.
6. Barricades closing sidewalk shall cover the full width of the sidewalk.
7. Separate the temporary pedestrian access route from traffic using a temporary barrier and a crash cushion if necessary.
8. When it is not possible to maintain a minimum of 60 inches throughout the length of the pedestrian route, maintain a minimum width of 48 inches and provide a 60 X 60-inch passing space at least every 200 feet.
9. See Standard Plan A88A for detectable warning surface for curb ramps to apply to temporary curb ramps.
10. See Standard Plan T34 for temporary curb ramp options.

**NOTES:**

See Standard Plan 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.

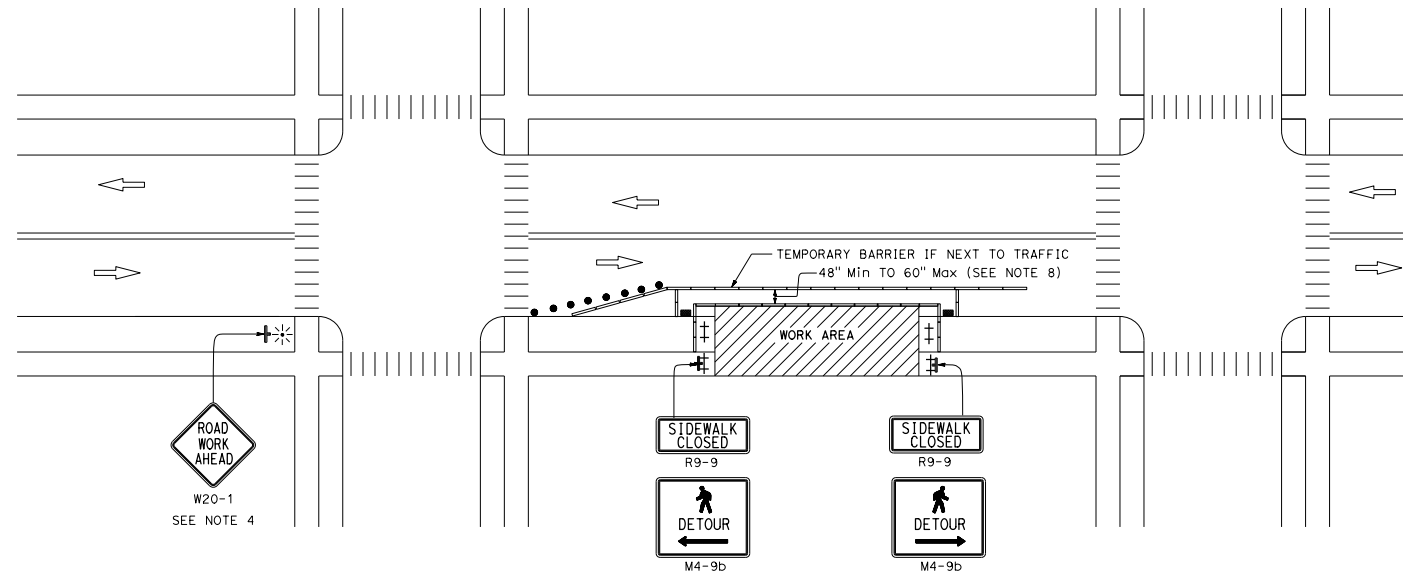
|      |        |       |                             |           |              |
|------|--------|-------|-----------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES<br>TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|      |        |       |                             |           |              |

Atifa Ferouz  
 REGISTERED CIVIL ENGINEER

May 31, 2018  
 PLANS APPROVAL DATE

Atifa Ferouz  
 No. C80402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

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**LEGEND:**

- ⊥ BARRICADE
- TEMPORARY CURB RAMP
- ▬ CHANNELIZING DEVICE
- TRAFFIC CONE
- ⊛ PORTABLE FLASHING BEACON
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN ON BARRICADE

**SIGN PANEL SIZE (Min)**

| SIGN DESIGNATION | SIGN OR PLAQUE    | SIGN SIZE |
|------------------|-------------------|-----------|
| M4-9b            | PEDESTRIAN DETOUR | 30" x 24" |
| R9-9             | SIDEWALK CLOSED   | 24" x 12" |
| W20-1            | ROAD WORK AHEAD   | 36" x 36" |

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY PEDESTRIAN ACCESS ROUTES  
 TYPICAL SIDEWALK DIVERSION WITHIN ROADBED**

NO SCALE

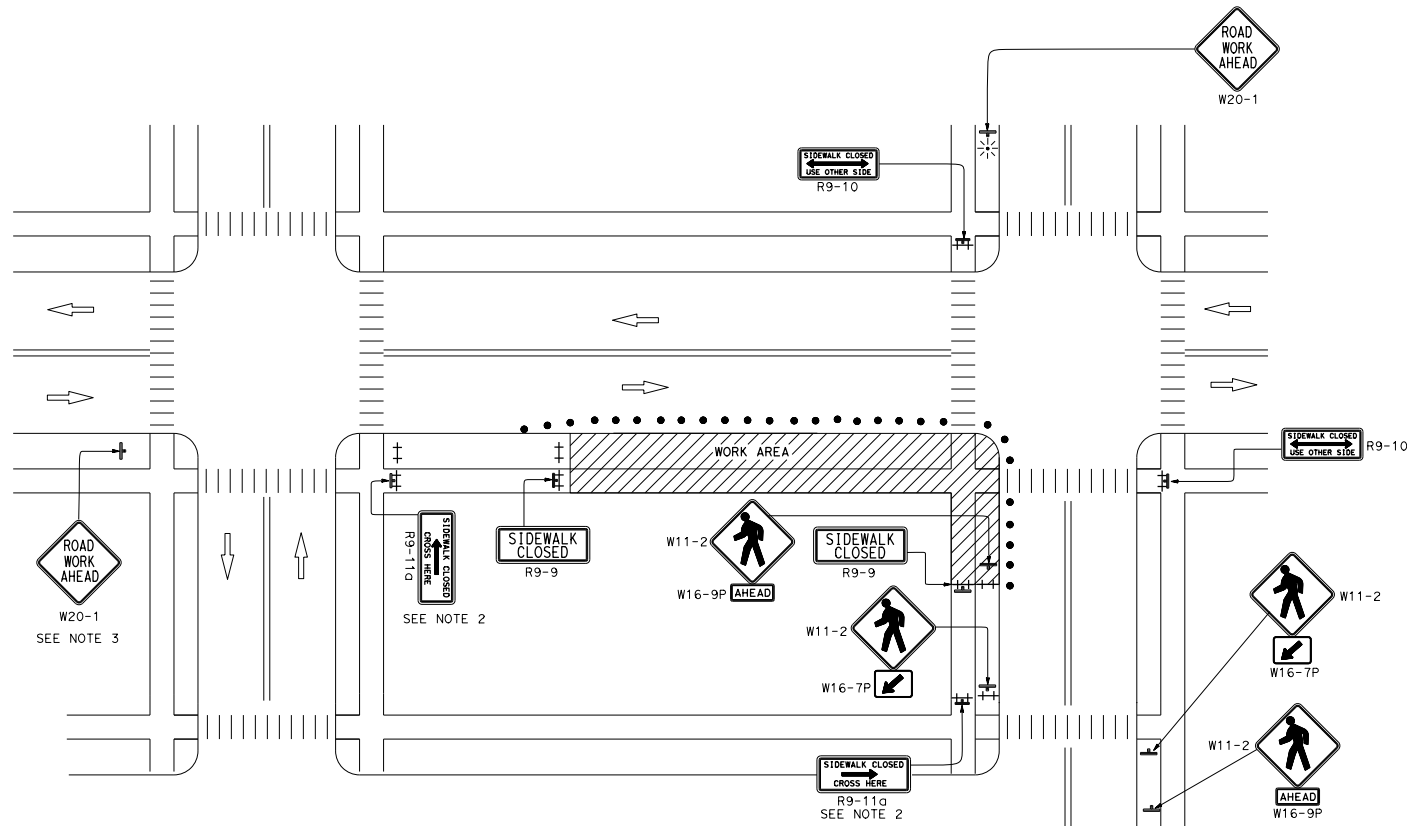
**T31**

**NOTES:**

1. Only signs related to pedestrians are shown. For all other signs see appropriate T-sheets.
2. Barricades closing sidewalk shall cover the full width of the sidewalk and the work area. Locate the R9-11 sign when there are destination points between the detour and the work area. Locate the R9-11 sign to allow pedestrian access.
3. Advance warning sign is not required if the work area is within the limits of a larger work zone. Sign shall be equipped with at least two flags for daytime closure. Each flag shall be orange or fluorescent red-orange in color.

**NOTES:**

See Standard Plan 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.



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

Atifa Ferouz  
 REGISTERED CIVIL ENGINEER  
 No. C80402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

May 31, 2018  
 PLANS APPROVAL DATE

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**LEGEND:**

- † BARRICADE
- TRAFFIC CONE
- ⚡ PORTABLE FLASHING BEACON
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN ON BARRICADE

**SIGN PANEL SIZE (Min)**

| SIGN DESIGNATION | SIGN OR PLAQUE                            | SIGN SIZE |
|------------------|---|-----------|
| R9-9             | SIDEWALK CLOSED                           | 24" x 12" |
| R9-10            | SIDEWALK CLOSED USE OTHER SIDE            | 24" x 12" |
| R9-11            | SIDEWALK CLOSED AHEAD CROSS HERE          | 24" x 18" |
| R9-11a           | SIDEWALK CLOSED CROSS HERE                | 24" x 12" |
| W11-2            | PEDESTRIAN                                | 36" x 36" |
| W16-7P           | DIAGONAL DOWNWARD POINTING ARROW (PLAQUE) | 24" x 12" |
| W16-9P           | AHEAD (PLAQUE)                            | 24" x 12" |
| W20-1            | ROAD WORK AHEAD                           | 36" x 36" |

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY PEDESTRIAN ACCESS ROUTES  
 TYPICAL SIDEWALK/CROSSWALK CLOSURE  
 AND PEDESTRIAN DETOUR**

NO SCALE

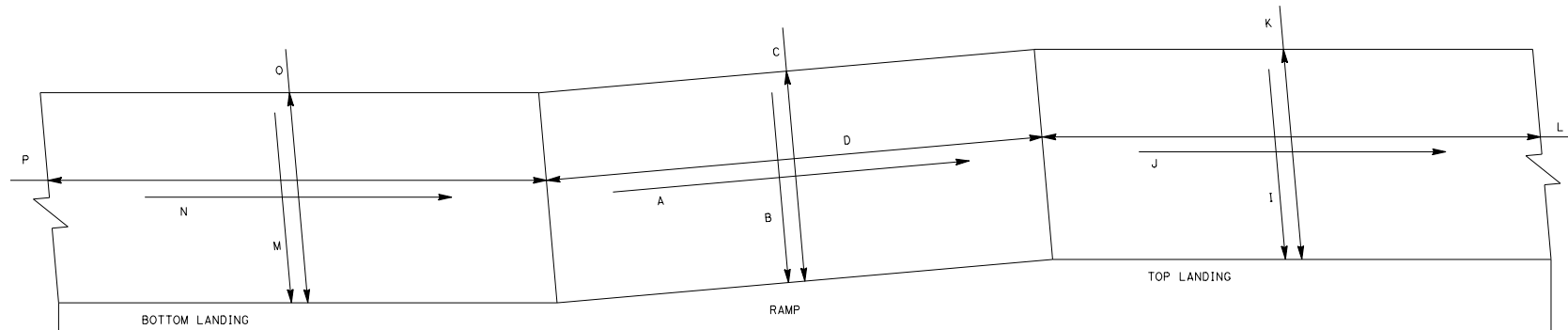
**T 32**

| RAMP         |              |                      |                      | HAND RAIL         |                  | EDGE PROTECTION             |                             |
|--------------|--------------|----------------------|----------------------|-------------------|------------------|-----------------------------|-----------------------------|
| SLOPE        | CROSS SLOPE  | WIDTH                | LENGTH               | HEIGHT RIGHT SIDE | HEIGHT LEFT SIDE | RAIL RIGHT SIDE             | RAIL LEFT SIDE              |
| A            | B            | C                    | D                    | E                 | F                | G                           | H                           |
| 8.3% OR LESS | 2.0% OR LESS | 48 INCHES OR GREATER | 30 FEET OR LESS      | 34 TO 38 INCHES   | 34 TO 38 INCHES  | WITHIN 2 INCHES FROM GROUND | WITHIN 2 INCHES FROM GROUND |
| TOP LANDING  |              |                      |                      | BOTTOM LANDING    |                  |                             |                             |
| CROSS SLOPE  | SLOPE        | WIDTH                | DEPTH                | CROSS SLOPE       | SLOPE            | WIDTH                       | DEPTH                       |
| I            | J            | K                    | L                    | M                 | N                | O                           | P                           |
| 2.0% OR LESS | 2.0% OR LESS | 48 INCHES OR GREATER | 60 INCHES OR GREATER | 2.0% OR LESS      | 2.0% OR LESS     | 48 INCHES OR GREATER        | 60 INCHES OR GREATER        |

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

*Atifa Ferouz*  
 REGISTERED CIVIL ENGINEER  
 No. C80402  
 EXP. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

May 31, 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.



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY PEDESTRIAN  
 ACCESS ROUTES**  
**RAMP**  
 NO SCALE

**T33**

300

| CURB RAMP    |              |                      | TOP LANDING  |              |                      |                      | DETECTABLE WARNING SURFACE |
|--------------|--------------|----------------------|--------------|--------------|----------------------|----------------------|----------------------------|
| SLOPE        | CROSS SLOPE  | WIDTH                | CROSS SLOPE  | SLOPE        | WIDTH                | DEPTH                | DEPTH                      |
| A            | B            | C                    | D            | E            | F                    | G                    | K                          |
| 8.3% OR LESS | 2.0% OR LESS | 48 INCHES OR GREATER | 2.0% OR LESS | 2.0% OR LESS | 48 INCHES OR GREATER | 60 INCHES OR GREATER | MINIMUM 36 INCHES          |

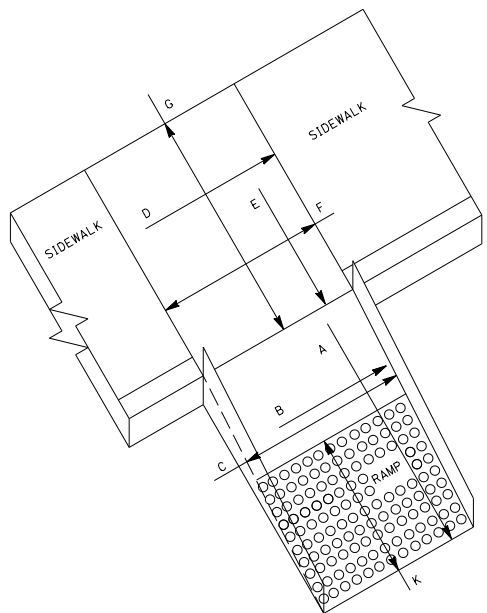
NOTES: If the above requirements cannot be met, on existing sites with space limitations, the following slopes are allowed:  
 For a maximum rise of 6 inches a slope between 1:12 to 1:10 is allowed.  
 For a maximum rise of 3 inches a slope between 1:10 to 1:8 is allowed.

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

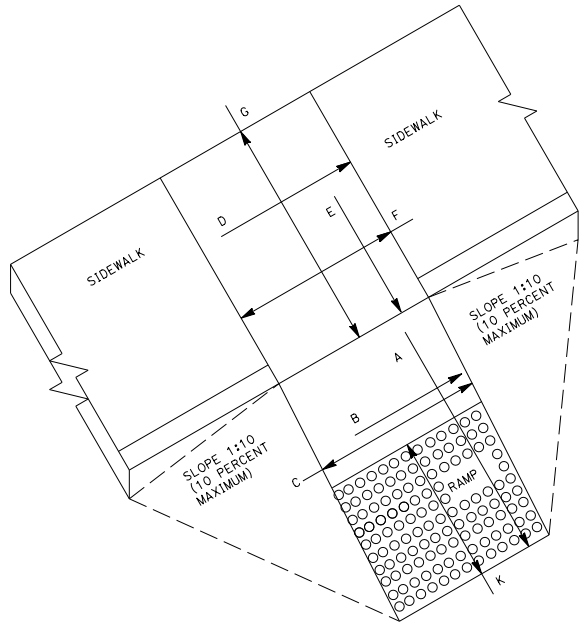
Atifa Ferouz  
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 EXP. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

May 31, 2018  
 PLANS APPROVAL DATE

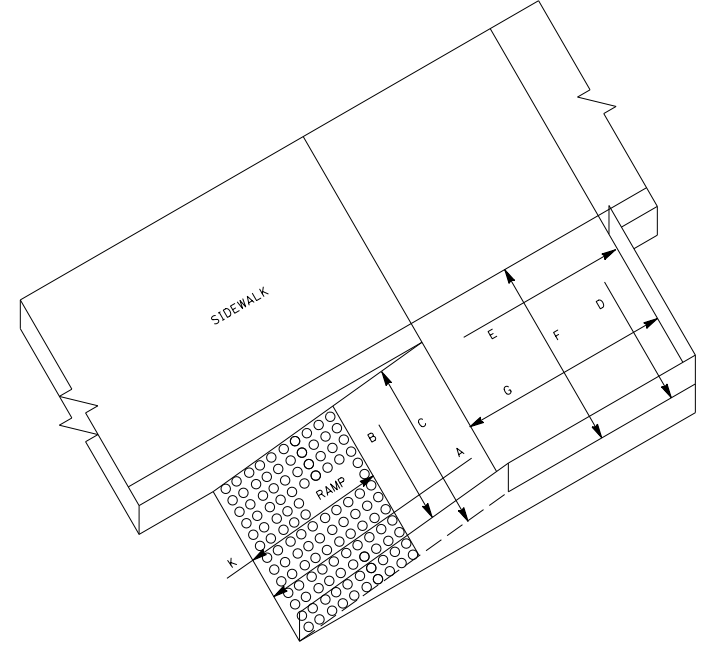
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



OPTION A  
SHOWN WITH SIDE EDGE



OPTION B  
SHOWN WITH SIDE APRON



OPTION C  
PARALLEL RAMP  
SHOWN WITH SIDE EDGE

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY PEDESTRIAN  
 ACCESS ROUTES  
 CURB RAMP OPTIONS**  
 NO SCALE

**T34**

2018 STANDARD PLAN T34

1-22-18

[Return to Table of Contents](#)

**NOTICE OF MATERIALS TO BE USED**

CEM-3101 (REV 09/2015) CT#7541-3511-1

**NOTICE OF MATERIALS TO BE USED  
INSTRUCTIONS TO PERMITTEE/CONTRACTOR**

Section 6 of the *State Standard Specifications* states that, "Before the preconstruction conference, submit material source information on a Notice of Materials to Be Used form".

To avoid delay in approval of materials, the Department of Transportation must receive, in a timely manner, Form CEM-3101, "Notice of Materials to Be Used." When filing this form, please comply with the following instructions:

1. The Contract Number/Permit Number and job limits should be the same as they appear on the special provisions/encroachment permit.
2. The column headed "Contract Bid Item Number" refers to the sequential item number of the contract, *if applicable*.
3. The column headed "Item Code" refers to the number for which the material is to be used, *if applicable*. It is a six-digit number.
4. The column headed "Contract Item Description" refers to an item description of the material as described in the special provisions or an item description to be used on the permitted project.
5. The columns headed "Item Component" refer to the specific description of material to be used, not necessarily the name of the contract item.

For Example:

| Contract Bid Item Number | Item Code | Contract Item Description | Item Component              | Item Sub-Component         |
|--------------------------|-----------|---------------------------|-----------------------------|----------------------------|
| 1                        | 520101    | Bar Reinforcing steel     | Coupler<br>(service splice) | Service Splice, CJP welded |

6. The column headed "Manufacturer/Provider" refers to the manufacturer/fabricator of the item. List the name, address, and email of the Manufacturer/Fabricator. Also, list the name and address of the location where inspection will occur, if different from the Manufacturer/Fabricator.
7. Form CEM-3101, "Notice of Materials to Be Used," must be submitted to the resident engineer (RE). The RE will email Form CEM-3101 to the materials administrator to:

[MaterialsAdministratorMETS@dot.ca.gov](mailto:MaterialsAdministratorMETS@dot.ca.gov) or fax to (916) 227-7084, Attn: Materials Administrator or postal mail to: Materials Engineering and Testing Services, 5900 Folsom Blvd., Sacramento, CA 95819, MS-5.

If the sources of materials are not known at the beginning of a contract, submit a Form CEM-3101, "Notice of Materials to Be Used," for a given bid item as soon as a provider is known. Multiple submissions may be necessary. Submit a Form CEM-3101, "Notice of Materials to Be Used," for all changes or revisions.

When placing orders for materials that require inspection prior to shipment, be sure to indicate on your request form that state inspection is required before shipment.

**ADA Notice**  
 For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Resident Engineer: **Caltrans Permit Inspector – Jim McKrell / Romano Verlengia**

Date:

Materials required for use under Contract Number <sup>(1)</sup> **Encroachment Permit Number - 0522-NUE-0034**

District: **05** County: **SLO**

Route: **VAR**

Post Mile: **VAR**

will be obtained from the following sources:

| Contract Bid Item Number (2) | Item Code (3) | Contract Item Description (4) | Item Component (5) | Manufacturer/Provider Name and Address (5) | Manufacturer/Provider Email Address (6) |
|------------------------------|---------------|-------------------------------|--------------------|--|---|
|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |
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|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |
|                              |               |                               |                    |  |   |

It is requested that you arrange for sampling, testing and inspection of materials prior to delivery in accordance with Section 6 of the *Standard Specifications*. It is understood that source inspection does not relieve the prime contractor of the full responsibility for incorporating into the work, materials that comply in all respects with the contract plans and specifications, nor does it preclude the subsequent rejection of materials found to be unsuitable.

(7) Copies: Materials Administrator, Mail Station #5  
 Materials Engineering & Testing Services  
 5900 Folsom Blvd, Sacramento, CA 95819  
[MaterialsAdministratorMETS@dot.ca.gov](mailto:MaterialsAdministratorMETS@dot.ca.gov)  
 Fax: (916) 227-7084

|                |              |                |
|----------------|--------------|----------------|
| Contractor     |              |                |
| Address        |              |                |
| Business Phone | Business Fax | E-Mail Address |

## **PEDESTRIAN SAFETY (MCP)**

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

1. 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 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.
2. Pedestrian walkways and canopies within State Right of Way shall comply with the requirements of the applicable local agency or of the latest edition of the Uniform Building Code whichever contains the higher standards.



## **SIDEWALKS (CS)**

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

1. A State issued permit is required for any landscaping or tree installation, including installation of tree wells.
2. A separate permit must be obtained from Caltrans for any driveway, handicap-ramp installations or any sidewalks that are other than Portland Cement Concrete constructed in compliance with Caltrans Standard Specifications.
3. Traffic control is authorized only between 9 a.m. and 3 p.m., Monday through Friday, holidays excluded. Any traffic control that requires lane closure shall be in compliance with the appropriate traffic control plan. Where required by the plan, the use of a flashing arrowboard is MANDATORY.
4. New curb and gutter installations shall be State Standard Type A2-6, unless necessary to conform to existing adjacent curb and gutter installations.
5. The minimum width of a sidewalk should be 8 feet between a curb and a building when in urban and rural main street place types. For all other locations the minimum width of sidewalk should be 6 feet when contiguous to a curb or 5 feet when separated by a planting strip.
6. Alignment and grade of gutter and sidewalk shall match the existing.
7. Existing concrete curb and paved shoulder shall be saw cut to a neat line prior to excavating and forming. Existing concrete sidewalk shall be saw cut at the scoreline. Paved shoulder shall be replaced with asphalt concrete paving material equal "in kind" and thickness to existing shoulder and shall conform to lip of new curb and gutter.
8. Permittee shall be responsible for the relocation or adjustment of any utility required as the result of work authorized by this permit, and utility relocation shall be completed prior to the installation of any new curb, gutter or sidewalk.
9. A monolithic pour of sidewalk and curb and gutter shall not be permitted.

# STEEL PLATE BRIDGING UTILITY

TR -0157 (Rev. 04/2018)

To accommodate excavation work, steel plate bridging may be necessary. All conditions for use of steel plate bridging should be set forth in the special provisions.

Consideration of steel plate bridging should take into account the following factors:

1. Traffic speed.
2. Traffic Volume and Composition.
3. Duration and dimensions (width & daily estimated lengths) of the proposed excavation.
4. Weather conditions.

When backfilling operations of an excavation in the traveled way, whether transverse or longitudinal, cannot be properly completed within a work day, steel plate bridging with a non-skid surface and shoring (see Trenching & Shoring) may be required to preserve unobstructed traffic flow. In such cases, the following conditions shall apply:

1. Steel plate bridging on freeways is not allowed.
2. Steel plates used for bridging must extend a minimum of 12" beyond the edges of the trench.
3. Steel plate bridging shall be installed to operate with minimum noise.
4. The trench shall be adequately shored, (as mentioned in Section 603.6B-2 of the Encroachment Permits Manual) to support the bridging and traffic loads.
5. Temporary paving with cold asphalt concrete shall be used to feather the edges of the plates, if plate installation by Method (2) described below, is used.
6. Bridging shall be secured against displacement by using adjustable cleats, shims, or other devices.

As required by the district, steel plate bridging and shoring shall be installed using either Method (1) or (2):

**Method 1** For speeds of 45 MPH or greater:

The pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate.

Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2" into the pavement. Subsequent plates are to be butted and tack welded to each other.

**Method 2** For Speeds less than 45 mph:

Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2" into the pavement. Subsequent plates are to be butted and tack welded to each other.

Fine graded asphalt concrete shall be compacted to form ramps, maximum slope 8.5 % with a minimum 12" taper to cover all edges of the steel plates. When steel plates are removed, the dowel holes in the pavement shall be backfilled with either graded fines of

asphalt concrete mix, concrete slurry, epoxy or an equivalent that is satisfactory to the Caltrans' representative.

The permittee is responsible for maintenance of the steel plates, shoring, asphalt concrete ramps, and ensuring that they meet minimum specifications. Unless specifically noted or granted in the special provisions, or approved by the State representative, steel plate bridging shall not exceed 4 consecutive working days in any given week. Backfilling of excavations shall be covered with a minimum 3" temporary layer of cold asphalt concrete.

The following table shows the advisory minimal thickness of steel plate bridging required for a given trench width (A-36 grade steel, designed for HS20-44 truck loading per Caltrans Bridge Design Specifications Manual).

| Trench Width | Minimum Plate Thickness |
|--------------|-------------------------|
| 10"          | 1/2"                    |
| 1'-11"       | 3/4"                    |
| 2'-7"        | 7/8"                    |
| 3'-5"        | 1"                      |
| 5'-3"        | 1 3/4"                  |

NOTE: For spans greater than 5'-3", a structural design shall be prepared by a California registered civil engineer.

All steel plates within the right of way whether used in or out of the traveled way shall be without deformation. Inspectors can determine the trueness of steel plates by using a straight edge and should reject any plate that is permanently deformed.

Steel plates used in the traveled portion of the highway shall have a surface that was manufactured with a nominal Coefficient Of Friction (COF) of 0.35 as determined by California Test Method 342 (See Appendix H, Encroachment Permits Manual). If a different test method is used, the permittee may utilize standard test plates with known coefficients of friction available from each Caltrans District Materials Engineer to correlate skid resistance results to California Test Method 342. Based on the test data, the permittee shall determine what amount of surface wear is acceptable, and independently ascertain when to remove, test, or resurface an individual plate.

Caltrans Inspectors should not enforce plate removal unless it is permanently deformed or delivered without the required surfacing. However, an inspector should document in a diary all contacts with the contractor.

A "Rough Road" (W8-8) sign and a "Steel Plate Ahead" (W8-24) sign with black lettering on an orange background must be used in advance of steel plate bridging along with the required construction area signs. These signs must be used along with any other construction area signs.

Surfacing requirements are not necessary for steel plates used in parking strips, on shoulders not used for turning movements, or on connecting driveways, etc., not open to the public.

## **SURVEYS (SV)**

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

1. Two days before work is started under this permit, contact (See Permit) concerning the permittee's operation.
2. All survey operations shall be conducted off the traveled way except where necessary to cross pavements and medians.
3. When survey operations are being conducted, the permittee shall furnish, place and maintain signs and safety equipment in accordance with the latest edition of the "California Manual on Uniform Traffic Control Devices" (Part 6, Temporary Traffic Control).
4. All personnel shall wear hard hats and orange vests, shirts or jackets as appropriate. Any painted markings shall be made with water soluble paint.
5. Permission is also granted to park survey vehicles temporarily within the right of way, outside the shoulders, while survey work is in progress.
6. SURVEY WORK IS PROHIBITED ON FREEWAYS.
7. Survey information and assistance may be obtained upon request to: Survey Section, Department of Transportation, (See Permit).

## **TRAFFIC STRIPING, MARKINGS, AND SIGNS**

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

1. Traffic striping, pavement markings and signs shall be furnished and placed by the permittee and the cost shall be borne by the permittee. Where new asphalt concrete has been placed, painted striping and pavement markings shall be installed within 24-hours. Where shown on the plans, after thirty (30) days curing time, thermoplastic materials shall be applied in compliance with Section 84 of the Standard Specifications.
2. Roadside signs shall be placed at locations shown on the permit plans and shall be installed in compliance with the latest edition of Caltrans Standard Plans.
3. Permittee shall furnish to State's representative a completed Form CEM-3101 "Notice of Materials to be Used," and approval of the material used shall be obtained prior to its installation.

## **TREE PRUNING (TRIMMING) AND CHEMICAL APPLICATION**

TR – 0159 (Rev. 07/2018)

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

### **I. GENERAL (Applies to BOTH Non-Utility and Utility Projects):**

1. Scheduled pruning work may be restricted by Caltrans to maintain mobility during special events, commuter traffic, or other periods of projected high traffic volumes.
  - i. Traffic control is generally authorized from 9 a.m. to 3 p.m., Monday through Friday, excluding holidays. Extended traffic control hours may be required by Caltrans.
  - ii. Traffic control must conform to requirements shown in the State Standard Plans. When required, the use of a flashing arrow board is **MANDATORY**.
  - iii. Suspend work during inclement weather, such as heavy fog, if lane or shoulder closures will be required. Do not perform pruning work during periods of high wind to minimize the spread of debris into the traveled way.
2. Prune trees in compliance with the most recent version of ANSI A300-Pruning Part 1, the American National Standard for Tree Care Operations, Tree, Shrub and Other Woody Plant Maintenance-Standard Practices (Pruning), and the International Society of Arboriculture (ISA) Tree Pruning Best Management Practices.
3. Prune trees in compliance with the seasonal tree pruning restrictions specified in the Migratory Bird Act and meet the seasonal requirements of specific tree species. Perform pruning based upon the age of the tree (newly planted or established), type of tree (evergreen or deciduous), purpose for pruning (maintenance of form, structure, maintaining sight lines, utility clearance), and to minimize the spread of disease (pine pitch canker, eucalyptus psyllid, eucalyptus borer beetles, Dutch elm disease, or mistletoe).
4. Tree trimmers must be licensed by the California State Contractors State License Board and hold a current C61/D49 license.
5. Do not use climbing spurs to prune trees, except when working in the tops of Eucalyptus, Palms, and Conifers.
6. Prune trees to maintain their natural structure and shape. If unbalanced growth already exists, first thin and head prune the tree. Where prior topping or side pruning has resulted in excessive growth over the State right-of-way, prune to restore a balanced, symmetrical shape. Avoid creating large holes in the canopy. Upon completion of work, trees should present a balanced, symmetrical shape that is characteristic of their species.
7. Prune trees to maintain their natural open crown structure. Do not cut young growth year after year at the same fixed distance from the trunk. This technique creates very dense growth at the tree canopy margin, growth called “crow’s nests” or “brooms”. Maintain the natural open crown structure by thinning out dense growth.
8. Prune trees to restore an open crown structure. Remove limbs larger than 2-inches in diameter as necessary to open up dense growth, called “crows' nests” or “brooms.” Make these cuts at laterals or parent branches in older wood so that the following season’s growth will result in a crown structure free of dense, disfiguring growth.

**ENCROACHMENT PERMIT SPECIAL PROVISIONS**

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9. Prune trees to avoid redirecting growth over the highway. Maintain the terminal bud of the leader. Perform top or center pruning only after these trees have recovered their natural balance and form.
10. Final cuts must not leave stubs. Prune in ways that maximize wound recovery from callus growth. Keep wounds as small as practicable, reasonably flush, within the shoulder ring area, keeping cambial tissues at the cut edge alive and healthy. Do not make extreme flush cuts that produce large wounds and weaken the tree.
11. Remove debris, cuttings, and tree limbs from the State right-of-way at the end of each workday, leaving the work area in a safe and presentable condition. In regions where pruned limbs and bark might harbor pests or disease (such as pine pitch canker, eucalyptus psyllid, eucalyptus borer beetles, Dutch elm disease, or sudden oak death) dispose pruned materials in accordance with Federal, State, and local agency requirements.
12. Topping of trees is not allowed.
13. Prune trees to allow 8 feet over sidewalks and 17 feet over vehicular pavement.
14. Pruning must not change the character of the tree.

**II. ADDITIONAL TREE PRUNING REQUIREMENTS FOR UTILITIES ONLY:**

Comply with the requirements under “I. General” above, and the following:

1. Severity of utility tree pruning work may be restricted by the District Landscape Specialist to preserve the appearance of trees that possess high value due to local community significance, historic landscape potential, or documented horticultural value.
2. Limit pruning severity such that required minimum clearances are maintained for no more than two years.
3. Comply with minimum utility clearances as established by the CPUC General Orders, California Public Resources Code and Federal and State laws. Clearances that exceed the established minimum must be agreed upon by Caltrans and the Utility Company. For most locations, pruning should not take place more frequently than once per year. Pruning clearances and pruning frequencies must reflect the species, growth habit, condition, and health of each tree.
4. Prune trees receiving their first pruning, or recently pruned trees with “directional pruning” as defined in the ISA Tree-Pruning Guidelines. Trees that cannot be directionally pruned, such as older trees that have been topped many times may be submitted for consideration of removal.
5. Do not perform initial, severe “V” shaped pruning on trees along any highway, expressway or freeway without approval from the District Landscape Specialist or District Landscape Architect. Do not perform severe “V” pruning on any tree along a state or federally designated scenic highway without approval from the District Landscape Architect.
6. Maintain previously “rounded over” trees consistent with past practices, unless Caltrans and the Electric Utility owner agree that the tree can be directionally pruned or have its crown restored without creating structural defects or growth that presents a liability.

**III. CHEMICAL CONTROL:**

1. Do not apply chemicals to trees located on scenic highways.
2. Upon approval by Caltrans to use chemicals, also obtain approval by the County Agricultural Commissioner.

**ENCROACHMENT PERMIT SPECIAL PROVISIONS**

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3. Control resprouting tree species using integrated vegetation management program techniques, including chemical and non-chemical methods.
4. Prior to chemical application, obtain a pest control recommendation from a licensed Pest Control Advisor. Submit a copy of the recommendation to the Caltrans District Landscape Specialist or their designee.
5. Utility Companies must maintain a list of locations, chemical types, and quantities used for treatment in pruning operations. Provide this information upon expiration of your annual permit or upon request of the Department during the annual/biennial permit period.
6. Utility Companies must submit copies of MSDS sheets for all chemical compounds used in tree pruning operations along with their permit application.
7. Utility Companies must notify the District Encroachment Permits Office when they change or modify the chemicals used in their pruning operations.

## UTILITY ANNUAL PROVISIONS

TR – 0160 (Rev. 10/2019)

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

Annual utility permits UE are issued to utilities who maintain their facilities within State highway right-of-way. Any utility or public corporation, who lawfully maintains a utility encroachment, or their agent, may perform routine or emergency maintenance on such facility in accordance with the following provisions:

**UE1. EXCLUSIONS:** These provisions do not authorize any work on freeways and expressways, tree trimming, aerial capacity increases on designated "Scenic Highways", pole replacement / relocation work, or other activities not specifically provided for in this permit.

**UE2. EMERGENCY REPAIRS:** The permittee may make emergency repairs, alter traffic flow, and excavate through improved surfaces only when breaks in the conduit, cable, or pipeline over or under the pavement presents a definite public hazard or serious interruption of essential services. In such cases, the Department's representative shall be notified immediately.

Replace poles knocked down by vehicles, accidental causes or natural disasters. The entire length of poles and stubs must be removed from the ground and replacement pole must be placed at the exact location. Planned pole replacements/installations are not allowed under this permit.

**UE3. OPEN EXCAVATIONS:** Excavation must not be left open after daylight hours unless specifically authorized and adequate protection for traffic is provided in accordance with the Encroachment Permit General Provisions, "Public Traffic Control" And "Minimum Interference with Traffic". Backfill and pavement replacement must be performed in accordance with General Provisions, "Restoration and Repairs in State Highway right-of-way."

**UE4. TRAFFIC CONTROL:** Work requiring traffic control shall be conducted between Monday-Friday 9:00 a.m. and 3:00 p.m. or as otherwise authorized by the Permit Engineer. Adequate traffic control must be provided in accordance with the Encroachment Permit General Provisions, "Public

Traffic Control", "Minimum Interference with Traffic" and "Suspension of Traffic Control Operation."

Only those maintenance activities that can be performed using a Caltrans Standard Plans for Temporary Traffic Control Systems and Temporary Pedestrian Access Routes are authorized under the annual maintenance permit. Otherwise a separate permit application for the work, along with a traffic control plan designed and signed by a California Registered Civil or Traffic Engineer must be submitted for review and approval.

Advanced notification must be provided to Caltrans Traffic Management Center for any activities that may cause a traffic impact including all lane closures. Adequate notice must be provided in accordance with the Encroachment Permit General Provisions, "Notification of Closure to Department and Traffic Management Center (TMC)."

**UE5. WORK PERMITTED - AERIAL:** All permitted activity must not be over the traveled way or within the limits of officially designated scenic highways and/or on Caltrans structures.

1. Maintain, inspect, remove, repair or replace (in the same location) all aerial facilities. Work over the traveled way requires a separate permit and the placement of "H" poles and netting as per form TR-0108, located in Appendix "E" of the Encroachment Permits Manual.

Replace broken pins and/or insulators, repair broken wires, pull slack wires, and replace or pull broken or slack guys.

Replace aerial wires and cross arms on existing poles except where wires cross the highway. Unless otherwise specifically required by the Department, protected cable, tree wire or plastic



**ENCROACHMENT PERMIT SPECIAL PROVISIONS**

tree wire guard used for communication lines may be used through trees where necessary, provided the appearance of the tree or the tree itself will not be damaged.

Perform insulator washing and interconnect splicing of cables.

Install additional capacity (in the same location), install, maintain, remove, repair or replace aerial service connections with potential to ground of 300 volts or less.

2. Installations and clearances must be equal to those required by either the California Public Utilities Commission orders or the Division of Occupational Safety and Health (Cal/OSHA) regulations promulgated in the California Code of Regulations, Title 8, Chapter 4, whichever is more restrictive.

**UE6. WORK PERMITTED - UNDERGROUND:**

1. Maintain, inspect, remove, repair or replace (in the same location) all underground facilities except those requiring trenching in the traveled way or require uncovering more than 50 feet of line at any one time. The permittee may open existing manholes to repair underground cables. Where the manhole lies within the improved surface of the highway, the permittee will provide adequate protection for traffic in accordance with the Encroachment Permit General Provisions "Public Traffic Control" and "Minimum Interference with Traffic".
2. Install additional capacity in existing ducts except for facilities not in compliance with the Department's High priority utility policies or on Structures.
3. Install air flow monitoring transducers and piping in existing ducts.
4. Barholing, potholing, cleaning, rodding and placing float ropes.
5. Adjust access cover to grade and replace in kind or with larger size pull boxes.
6. Interconnect splicing of cables.
7. Install service connections (laterals) perpendicular to the highway for the following:

- i. Natural gas service lines less than 2 inches in pipe diameter that have normal operating pressures of 60 psig or less

- ii. Subsurface electrical service connections with a potential to ground of 50 volts or less

- iii. Service connections for water, sewer, telephone, telecommunication, and cable service

8. Permanent pavement patching for work authorized by this permit. The patching must be made within thirty (30) days of completion of backfill unless otherwise specified by the Permit Engineer. See Underground Utility Provision UG 9 (form TR-0163).

**UE7. POLE MAINTENANCE & CHEMICAL TREATMENT:**

1. Utility Companies are to provide a list of the pole identification, locations, type of chemicals and quantities used for their pole treatment maintenance operations. This information must be provided upon expiration of their annual permit or upon request of the Department as needed.
2. Utility Companies must submit copies of the Safety Data Sheets (SDS) for all chemical compounds to be used in their pole treatment maintenance operations, in conjunction with the permit application submittal.
3. Utility Companies are to notify the District Landscape Specialist or their designee and the District Encroachment Permits Office when there is any change or modification in the type(s) of chemical used in their pole treatment maintenance operations.
4. Prior to any application of Tree Growth Regulators (TGR) approval shall be obtained from the District Landscape Specialist or their designee.

**UE8. MISCELLANEOUS:**

1. Install new and replace existing transformers on existing poles.
2. Clear grass from around base of poles and excavate around poles for inspection, including tamping and straightening. The use of herbicides or other chemicals is not authorized by this permit. A separate encroachment permit is required for that purpose.

## **UTILITY LEASING**

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

1. Leasing all or part of the longitudinal utility encroachment is prohibited. Encroachment includes but is not limited to: utilities, carrier pipes, casings, conduits, poles, etc.

## UTILITY OVERHEAD PROVISIONS (OH)

TR – 0162 (Rev. 12/2007)

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

**OH1. LOCATION POLE LINES, ETC.:** Pole lines shall be located as specifically directed in the provisions of the permit.

**OH2. INSTALLATIONS AND CLEARANCES:** Horizontal clearance, as measured from the edge of traveled way to the installation must be in accordance with the minimum clearance required for Discretionary Fixed Objects. According to Caltrans' Highway Design Manual (309.1) The installation should be located beyond the clear recovery zone at a minimum of 52 feet horizontally or 8 feet vertically up-slop from the edge of traveled way, unless they are made breakaway or shielded behind existing guardrail, barrier or other safety device. In no case is a pole allowed closer than 1.5 feet behind a curb face or less than 2 feet from the edge of a slop catch point or 3 feet from the curb returns of intersections and near the edges of driveways, or within a drainage ditch. New installations should adhere to setback limits or should be protected. Consideration should be given to placing such encroachments underground in shoulder or parking areas. Also, installations and clearances much comply with applicable orders of the California Public Utilities Commission (CPUC), or the Division of Occupational Safety and Health (Cal/OSHA) Safety Orders, whichever is more restrictive.

**OH3. PERMISSION FROM PROPERTY OWNERS:** When necessary, permission must be secured from the abutting property owner(s) in written form by the permittee before starting work.

**OH4. CLEARANCE OF TREES:** Unless otherwise specifically required by the Department, protected cables, tree wires or plastic tree wire guards used for communication lines may be used through trees where necessary, provided the installation and any necessary pruning does not damage or affect the appearance of the tree or the tree itself will not be damaged. This allowance does not apply to scenic highways.

**OH5. GUY WIRES:** No guy wires are to be attached to trees except as may be specified in the permit and in no event must they be so attached as to girdle the tree or interfere with its growth. Guy wires must be kept to a minimum elevation above ground as directed.

**OH6. ANCHOR:** Anchor must not be placed closer to the traveled way than the pole itself.

**OH7. REMOVE OLD POLES, GUY, and STUBS:** The entire length of poles and stubs must be removed from the ground and the holes backfilled. Guy rods must be removed to a minimum depth of 3 feet below original ground.

**OH8. AERIAL CROSSING:** Work involving new or additions to existing aerial crossings must not be performed in rainy, foggy or inclement weather which creates hazardous conditions for highway users.

**OH9. CLEARANCE FROM CURBS:** The face of poles must not be placed closer than 1.5 feet from any curb face.

**OH10. POLE INSTALLATION OR REMOVAL:** Where poles are to be installed or removed behind the curb in a parkway that is paved with Portland Cement Concrete, the concrete must be saw cut, removed and replaced to the nearest score lines or expansion joints. The hole in the PCC sidewalk created by pole removal must be temporarily backfilled with 2 inches minimum temporary AC at the time the pole is removed. Poles are not to be installed without prior approval of the final location by the Department's field representative.

**OH11. CONTROLLED ACCESS R/W:** Poles, anchors, etc., must not be installed inside of any controlled access right of way. All such requests are "exceptions" to policy.

## UTILITY UNDERGROUND PROVISIONS (UG)

TR - 0163 (Rev. 04/2018)

In addition to the attached Encroachment Permit General Provisions (TR-0045), the following special provisions are also applicable:

High priority utilities, pressurized facilities, pipes or ducts 6 inches or larger in diameter, or placement of multiple pipes or ducts, regardless of diameters are required to be encased on both conventional and access-controlled highway rights-of-way.

A “High Priority Utility” is defined as: 1) a natural gas pipeline greater than 6 inches in diameter, or with normal operating pressures greater than 60 psig, 2) petroleum pipelines, 3) pressurized sanitary sewer pipelines, 4) high-voltage electric supply lines, conductors, or cables that have a potential to ground of greater than or equal to 60 kV, or 5) hazardous materials pipelines that are potentially harmful to workers or the public if damaged.

An exception to this policy may be allowed on a case by case basis for the installation of Uncased High-Pressure Natural Gas Pipelines when in compliance with the TR-0158 Special Provisions.

The pavement or roadway must not be open-cut unless specifically allowed under a separate “UT” permit. Utility installations must not be installed inside of culverts or drainage structures.

For additional details regarding longitudinal utility encroachments on both conventional and access-controlled highway rights-of-way, see Chapter 600.

**UG 1. CASINGS:** Casings must be 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 an approved connector system. Used pipe must be pre-approved by the Department's engineer or representative before installation.

When the method of Horizontal Directional Drilling (HDD) is used to place casing, the use of High Density Polyethylene Pipe (HDPE) as casing is acceptable.

Reinforced Concrete Pipe (RCP) in compliance of State Standard Specifications is an acceptable carrier for storm drain gravity flow or non-pressure flow. RCP when installed by Bore & Jack must have rubber gaskets at the joints, and holes for grouting of voids left by jacking operations, see “E” below.

- A. Minimum wall thickness for steel pipe casing for different lengths and diameters of pipes are as follows:

### Minimum Wall Thickness

| Casing Pipe (Diameter) | Up to 150 ft (Length) | Over 150 ft (Length) |
|------------------------|-----------------------|----------------------|
| 6" to 28"              | 1/4"                  | 1/4"                 |
| 30" to 38"             | 3/8"                  | 1/2"                 |
| 40" to 60"             | 1/2"                  | 3/4"                 |
| 62" to 72"             | 3/4"                  | 3/4"                 |

- B. Spiral welded casing is authorized provided the casing is new and the weld is smooth.

- C. The ends of the casing must be plugged with ungrouted bricks or other suitable material approved by the Department's representative.
- D. When required by the Department's representative, the permittee must at his expense, pressure grout the area between the pavement and the casing from within the casing in order to fill any voids caused by the work covered under this permit. The increments for grout holes inside the pipe must be 8 feet staggered and located 22-1/2 degrees from vertical axis of the casing. Pressure must not exceed 5 psig for a duration sufficient to fill all voids.
- E. There is a spacing requirement when placement of multiple encasements is requested. The distance between multiple encasements must be the greater of either 24 inches or twice that of the diameter of the larger pipe being installed.
- F. Casings placed within access controlled highway rights-of-way must extend to the right-of-way lines.
- G. Wing cutters, if used, must be a maximum of 1 inches larger than the casing. Voids caused by the use of wing cutters must be grouted in accordance with "E" above.
- H. A band welded to the leading edge of the casing must be placed square to the alignment. The band must not be placed on the bottom edge. Flaring the lead section on bores over 100 feet must not be permitted.

**ENCROACHMENT PERMIT SPECIAL PROVISIONS**

- I. All casing lengths must equal to the auger length.
- J. The casings within conventional highways must extend 5 feet beyond the back of curb or edge of pavement, or to the right of way line if less. Where PCC cross-gutter exists, the casing must extend at least 5 feet beyond the back of the cross-gutter, or to the right of way line if less.

**Bore and receiving pits must:**

- A. be located at least 10 feet or more from the edge of pavement on conventional highways in rural areas.
- B. be located 5 feet behind the concrete curb or AC dike on conventional highways in urban areas.
- C. be located 5 feet outside the toe of slope of embankment areas.
- D. be located outside access controlled highway rights-of-way.
- E. be adequately fenced and/or have a Type-K barrier placed around them.
- F. be adequately shored in accordance with Cal-OSHA requirements. Shoring for jacking and receiving pits located within 15 feet of traffic lanes on a State highway must not extend more than 36 inches above the pavement grade unless otherwise authorized by Department's representative. Reflectors must be affixed to the shoring on the sides facing traffic. A 6 feet chain link fence must be installed around the perimeter of the pits during non-working hours.
- G. 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 must be lined with filter fabric.

**UG 2. HORIZONTAL DIRECTIONAL DRILLING: Bore and receiving pits**

When HDD is the approved method for pipe installation, drilling plans must contain information listed as follows:

1. Location of: entry and exit point, access pit, equipment, and pipe staging area.
2. Proposed drill path alignment (horizontal and vertical).
3. Location and clearances of all other facilities.
4. Depth of cover.
5. Soil analysis.\*
6. Carrier pipe length, diameter, thickness, and material (HDPE/steel) and ream pipe diameter.

7. Detailed carrier pipe calculations confirming ability to withstand installation loads and long-term operational loads including H2O.
8. Proposed drilling fluid composition, viscosity, and density (based on soils analysis).
9. Drilling fluid pumping capacity, pressures, and flow rates
10. State right-of-way lines, property, and utility right of way or easement lines.
11. Elevations.
12. Type of tracking method/system and accuracy used.
13. A detailed plan for monitoring ground surface movement (settlement or heave) resulting from the drilling operation.
- \* May be waived by the District Permit Engineer for HDD jobs less than 6 inches in diameter and a traverse crossing less than 150 feet.

**UG 3. LIMIT OF EXCAVATION:** No excavation is allowed within 10' 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 of the traveled way are to remain open, a temporary Type-K railing must be placed at a 10:1 taper or as otherwise directed by the Department.

**UG 4. TUNNELING:** Review, requirements of Section 603.6A-6 of the Encroachment Permits Manual, if applicable. In addition to the requirements of "UG1" the following requirements apply:

- A. For the purpose of this provision, a tunnel is defined as any pipe, 30 inches or larger in diameter placed.
- B. When tunneling is authorized, the permittee must provide full-time inspection of tunneling operations. The Department's representative must monitor projects.
- C. A survey grid must be set and appropriately checked over the centerline of the pipe jacking or tunneling operation. Copies of the survey notes must be submitted to the Department's representative.
- D. Sand shields may be required as ground conditions change.
- E. The method used to check the grade and alignment must be approved by the Department's representative.
- F. Pressure grouting for liner plates, rib and spiling, or rib and lagging tunnels must be at every 8 feet section or at the end of work shift before the next section is excavated. All grouting must be completed at the end of each workday.
- G. A method for securing the headway at the end of each workday is required. Breastplates must be

**ENCROACHMENT PERMIT SPECIAL PROVISIONS**

installed during working hours for running sand or super-saturated soil.

**UG 5. CLEARANCE AND OFFSET**

**REQUIREMENTS:** All installations must comply with Chapter 17, Article 4 of the Project Delivery Procedures Manual (PDPM) for utility clearance and offset requirements.

**UG 6. FACILITIES EXEMPT FROM THE HIGH PRIORITY UTILITY REQUIREMENTS:**

The following utilities (not including State owned utilities) are exempt from these policies and do not need to be plotted on the plans unless the depiction of the utility is needed for interconnectivity with the proposed work:

- Natural gas service lines less than 2 inches in pipe diameter that have normal operating pressures of 60 psig or less
- Subsurface electrical service connections with a potential to ground of 50 volts or less
- Service connections (laterals) for water, sewer, telephone, telecommunication, and cable service

All State owned utilities must be plotted on the plans.

**UG 7. DETECTOR STRIP:** A continuous metallic detector strip must be provided with non-metallic main installations. Service connections must be installed at right angles to the centerline of the State highway where possible.

**UG 8. BACKFILLING:** All backfilling must conform to the applicable sections of the Department's Standard Specifications. Ponding or jetting methods of backfilling are prohibited.

Any required compaction tests must be performed by a certified laboratory at no cost to the Department and the laboratory report furnished to the Department's representative.

**UG 9. ROADWAY SURFACING AND BASE MATERIALS:** When the permit authorizes installation by the open cut method, surfacing and base materials and thickness thereof must be as specified in the permit.

Temporary repairs to pavements must be made and maintained upon completion of backfill until permanent repairs are made. Permanent repairs to pavements must be made within thirty (30) days of completion of backfill unless otherwise specified by the Department. Temporary pavement patches must be placed and maintained in a smooth riding plane free of humps and/or depressions.

**UG 10. DAMAGE TO TREE ROOTS:** Tree roots 3 inches or larger in diameter will not be cut within the tree

drip line when trenching or other underground work is necessary adjacent to roadside trees. If such roots are encountered, they must be tunneled under, wrapped in burlap and kept moist until the trench is backfilled. Trenching machines may not be used under trees if the trunk or limbs will be damaged by their use.

If the trees involved are close together and of such size that it is impractical to protect all roots over 3 inches in diameter, or when roots are less than 4 inches in diameter, outside tree drip line, special arrangements may be made whereby pruning of the tree tops to balance the root loss can be done by the permittee under the close supervision of the District Landscape Specialist or District Tree Maintenance Supervisor. Manholes must not be installed within 20 feet of any trunk.

**UG 11. PIPES ALONG ROADWAY:** Pipes and conduits paralleling the pavement must be located as shown on the plans or located outside of pavement as close as possible to the right-of-way line.

**UG 12. BORROW AND WASTE:** Borrow and waste will be allowed within the work limits only as specified in the permit.

**UG 13. MARKERS:** The permittee must not place any markers that create a safety hazard for the traveling public or departmental employees.

**UG 14. CATHODIC PROTECTION:** The permittee must perform stray current interference tests on underground utilities under cathodic protection. The permittee must notify the Department prior to the tests. The permittee must perform any necessary corrective measures and advise the Department.

**UG 15. DELETED.** Provision left blank intentionally

**UG 16. INSTALLATION BY OPEN CUT METHOD:** When the permit authorizes installation by the open cut method no more than one lane of the highway pavement must be open-cut at any one time. Any exceptions must be in writing by the Department's representative. After the pipe is placed in the open section, the trench is to be backfilled in accordance with specifications, temporary repairs made to the surfacing and that portion opened to traffic before the pavement is cut for the next section.

If, at the end of the working day, backfilling operations have not been properly completed, steel plate bridging must be required to make the entire highway facility available to the traveling public in accordance with the "Steel Plate Bridging Special Provisions" (TR-0157)

**ENCROACHMENT PERMIT SPECIAL PROVISIONS**

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**UG 17. PAVEMENT REMOVAL:** PCC pavement to be removed must be saw cut at a minimum depth of 4 inches to provide a neat and straight pavement break along both sides of the trench. AC pavement must be saw cut to the full depth.

Where the edge of the trench is within 2 feet of existing curb and gutter or pavement edge, the asphalt concrete pavement between the trench and the curb or pavement edge must be removed.

**UG 18. DELETED.** Provision left blank intentionally.\*

**UG 19. SIDES OF OPEN-CUT TRENCHES:** Sides of open cut trenches in paved areas must be kept as nearly vertical as possible. Trenches must not be more the 2 feet wider than the outside diameter of the pipe to be laid therein, plus the necessary width to accommodate shoring.

**UG 20. EXCAVATION UNDER FACILITIES:** Where it is necessary to excavate under existing curb and gutter, or underground facilities, the void must be backfilled with two (2) sack cement-sand slurry.

**UG 21. PERMANENT REPAIRS TO PCC PAVEMENT:** Repairs to PCC pavement must be made of Portland Cement Concrete containing a minimum of 658 lbs. or 7 sack of cement per cubic yard. Replaced PCC

pavement must equal existing pavement thickness. The concrete must be satisfactorily cured and protected from disturbance for not less than forty-eight (48) hours. Where necessary to open the area to traffic, no more than two (2%) percent by weight of calcium chloride may be added to the mix and the road opened to traffic after six (6) hours.

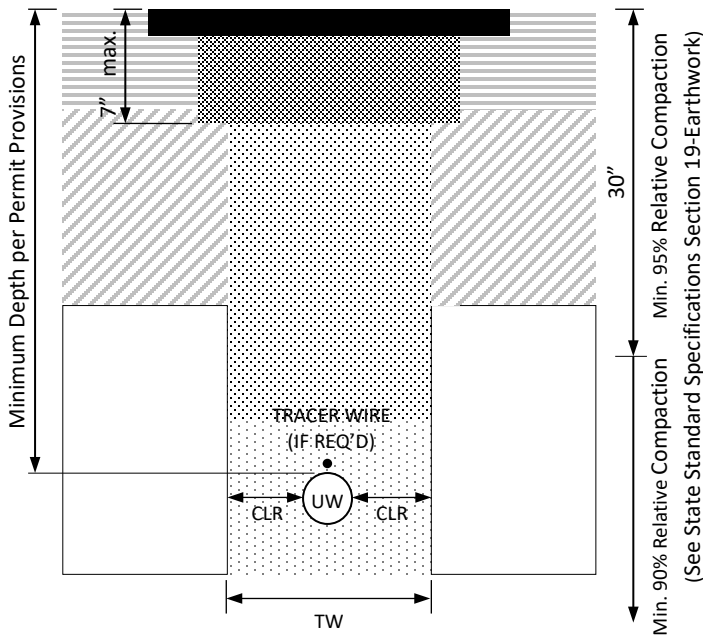
**UG 22. REMOVAL OF PCC SIDEWALKS OR CURBS:** Concrete sidewalks or curbs must be saw cut to the nearest score marks and replaced equal in dimension to that removed with score marks matching existing sidewalk or curb.

**UG 23. SPOILS:** No earth or construction materials are to be dragged or scraped across the highway pavement, and no excavated earth placed or allowed to remain at a location where it may 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 must be immediately removed by the permittee.

\*NOTE: Special Provision was deleted since it is already part of the Encroachment Permit General Provisions (TR-0045)

**ENCROACHMENT PERMIT TRENCH DETAIL**

**TYPICAL TRENCH DETAIL**



- New Final Trench Cap 2.0- 2.5 inches HMA, Grind and Overlay Limits per Encroachment Permit Provisions
- New Trench Pavement. Existing pavement depth plus 1.0 inch. (Trench Cap plus Trench Pavement = 7" max. depth) Minimum 3 feet trench pavement width.
- New Structural Backfill, 2-sack Slurry Cement, Class 2 aggregate base, or CLSM
- Existing Pavement Material
- Existing Base Material
- Envelope/Bedding per facility owner's standards and specifications
- Existing Subgrade
- UW Width of Utility or Culvert
- CLR Clearance between product and trench wall
- CLSM Controlled Low Strength Material
- HMA Hot Mix Asphalt
- TW Trench Width

STRUCTURE BACKFILL SHALL CONFORM TO SECTION 19-3.02C OF THE STATE STANDARD SPECIFICATIONS

SLURRY CEMENT BACKFILL SHALL CONFORM TO SECTION 19-3.02E OF THE STATE STANDARD SPECIFICATIONS

HMA SHALL CONFORM TO SECTION 39-2 OF THE STATE STANDARD SPECIFICATIONS

A TACK COAT OF ASPHALTIC EMULSION SHALL BE FURNISHED AND APPLIED.

ALL METHODS OF COMPACTION SHALL BE BY MECHANICAL MEANS. PONDING, JETTING OR FLOODING SHALL NOT BE ALLOWED. ALL COMPACTION SHALL CONFORM TO SECTION 19-5 OF THE STATE STANDARD SPECIFICATIONS

AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS

WHEN CLSM BASE IS UTILIZED, THE MIX DESIGN AND TEST RESULTS SHALL BE SUBMITTED TO THE STATE'S REPRESENTATIVE

ALL WORK SHALL BE AS AUTHORIZED BY THE APPROVED ENCROACHMENT PERMIT PLANS, AND/OR AS DIRECTED BY THE STATE'S REPRESENTATIVE

WHEN THE UW IS  $\geq 6"$  THEN THE MINIMUM CLR SHALL BE 6"

COLD PLANING TO ACCOMMODATE THE PLACEMENT OF STEEL PLATES IS REQUIRED FOR POSTED SPEED LIMITS 45 MPH OR GREATER. STATE REPRESENTATIVE MAY REQUEST COLD PLANING FOR STEEL PLATES TO MEET FIELD CONDITIONS EVEN IF POSTED SPEED LIMIT IS LESS THAN 45 MPH.

WHEN TRENCH PLACEMENT IS WITHIN 4' OF CURB AND GUTTER, ADDITIONAL COLD PLANING MAY BE REQUIRED AT THE DISCRETION OF THE STATE'S REPRESENTATIVE.

ANY PAVEMENT MARKINGS AND/OR STRIPING REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AS DIRECTED BY THE STATE'S REPRESENTATIVE.

A TRACER WIRE SHALL BE PLACED ON TOP OF THE FACILITY, WHEN REQUIRED BY THE STATE'S REPRESENTATIVE.

NEW STRUCTURAL BACKFILL SHALL CONSIST OF EITHER 2-SACK SLURRY CEMENT, CLASS 2 AGGREGATE BASE, OR CLSM. WHEN TW IS < 24 INCHES, CLASS 2 AGGREGATE BASE IS NOT RECOMMENDED FOR BACKFILL.



**CERTIFICATION OF COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)**

TR-0405 (REV 03/2015)

|                |                    |
|----------------|--------------------|
| Permit No.     | 0522 NUE 0034      |
| Dist/Co/Rte/PM | 05-SLO-VAR-VAR/VAR |

Encroachment permit projects that create, alter, or affect pedestrian facilities are required to be designed and constructed in accordance with the policies and standards in the current Design Information Bulletin 82 (DIB 82). Certification of compliance must be submitted by the permittee or permittee's authorized representative prior to the issuance of an encroachment permit or rider AND after construction is completed. DIB 82 can be found at:

<http://www.dot.ca.gov/hq/oppd/dib/dibprg.htm>

A separate TR-0405 form must be used for the Design and Post Construction Certifications. A California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect's Stamp\* is required except when (1) an authorized utility company representative or (2) an authorized Caltrans representative signs the form (at the discretion of the District Permit Engineer).

**Design Certification (prior to issuance of encroachment permit)**

- I \_\_\_\_\_ a California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect, do hereby certify that:
  - I \_\_\_\_\_ an authorized Caltrans representative, do hereby certify that:
  - I \_\_\_\_\_ an authorized representative of \_\_\_\_\_ (utility company only) do certify that:
- This project has been designed in accordance with DIB 82.
- An approved Exception to Accessibility Design Standards is attached.

|           |       |      |
|-----------|-------|------|
| SIGNATURE | TITLE | DATE |
|-----------|-------|------|

**Post Construction Certification**

- I \_\_\_\_\_ a California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect, do hereby certify that:
  - I \_\_\_\_\_ an authorized Caltrans representative, do hereby certify that:
  - I \_\_\_\_\_ an authorized representative of \_\_\_\_\_ (utility company only) do certify that:
- This project has been constructed in accordance with DIB 82.
- An approved Exception to Accessibility Design Standards is attached.

|           |       |      |
|-----------|-------|------|
| SIGNATURE | TITLE | DATE |
|-----------|-------|------|

**CA. LICENSED PROFESSIONAL ENGINEER, LICENSED ARCHITECT OR LICENSED LANDSCAPE ARCHITECT'S STAMP**

*I attest to the technical information contained herein and have judged the qualifications of all technical specialists providing engineering data upon which recommendations, conclusions, and decisions were based.*

\*A Licensed Architect or Licensed Landscape Architect may prepare this document and sign and seal it in lieu of a Registered Civil Engineer, provided the same Licensed Architect or Licensed Landscape Architect designed the on-site improvements. Use the seal of the appropriate licensed person in responsible charge.

# Permit Inspector Territories

Caltrans District 5

Highway colors correspond with Inspector contact information colors

## SANTA CRUZ & MONTEREY COUNTIES

David Ontiveros  
Office: (831) 476-1337  
Cell: (831) 277-0025  
Fax: (831) 476-1803  
Email: david.ontiveros@dot.ca.gov

District 5 Permit Engineer  
Eileen Stephens  
(805) 549-3206

## MONTEREY & SAN BENITO COUNTIES

Ignacio Saavedra  
Cell: (831) 601-1585  
Fax: (831) 663-8966  
Email: ignacio.saavedra@dot.ca.gov

Marina/Seaside  
PM R83  
Monterey

## STORMWATER COORDINATOR

Terran Hilden  
Cell: (805) 835-6571  
Email: terran.hilden@dot.ca.gov

## N. SAN LUIS OBISPO

Jim McKrell  
Cell: (805) 276-1570!  
Email: jim.mckrell@dot.ca.gov

## S. SAN LUIS OBISPO & N. SANTA BARBARA

Romano Verlengia  
Cell: (805) 458-3353  
Email: romano.verlengia@dot.ca.gov

## S. SANTA BARBARA COUNTY

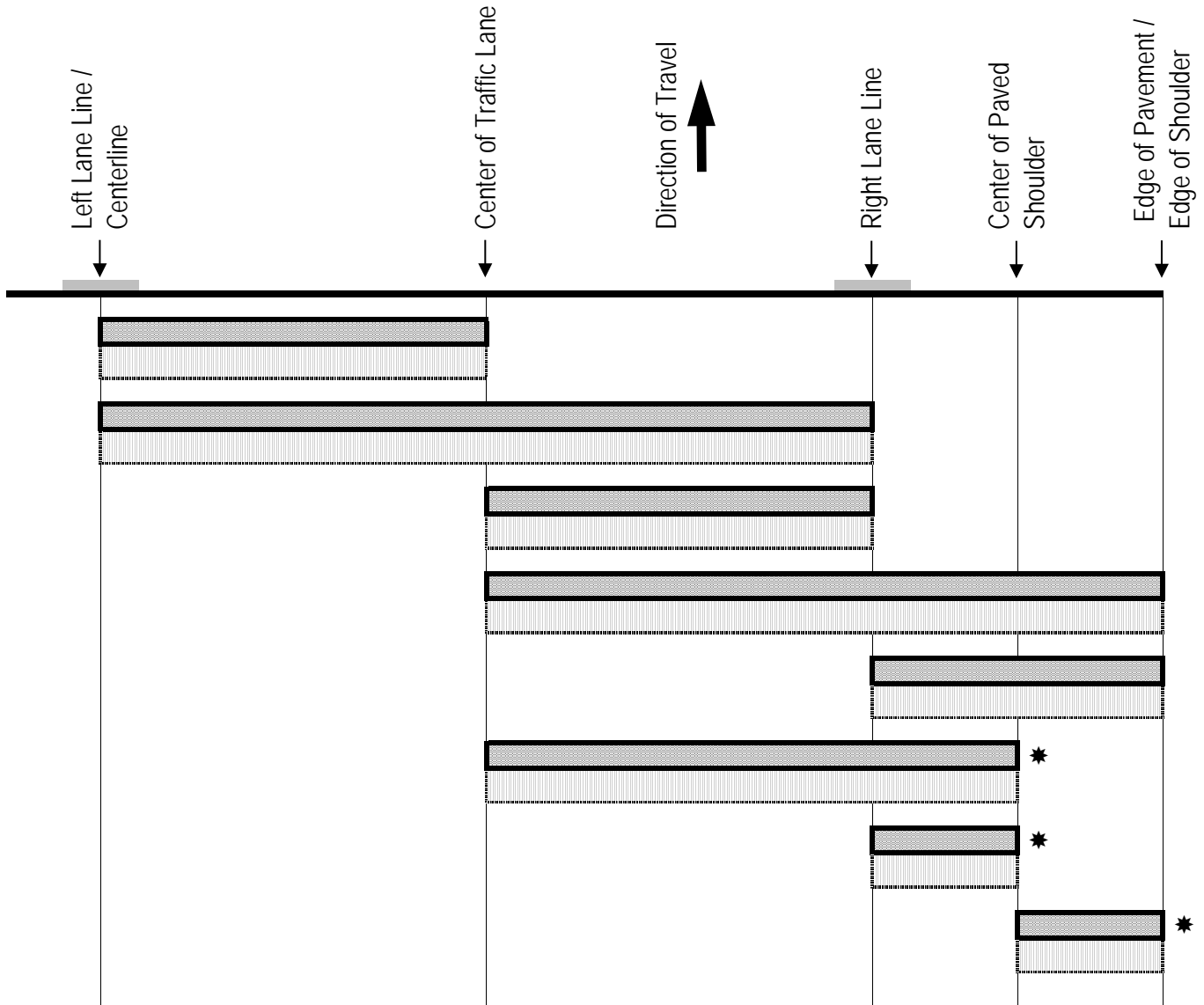
Adolfo Gonzalez  
Cell: (805) 441-2898  
Email: adolfo.gonzalez@dot.ca.gov



0 10 20 30 Miles



# Limits of Grind and Overlay for Pavement Replacement

To determine the required grind and overlay width to cap your trench, find the location that best fits your trench and includes the limits of your trench repair. Please consult with the Caltrans Permit Inspector for additional guidance.



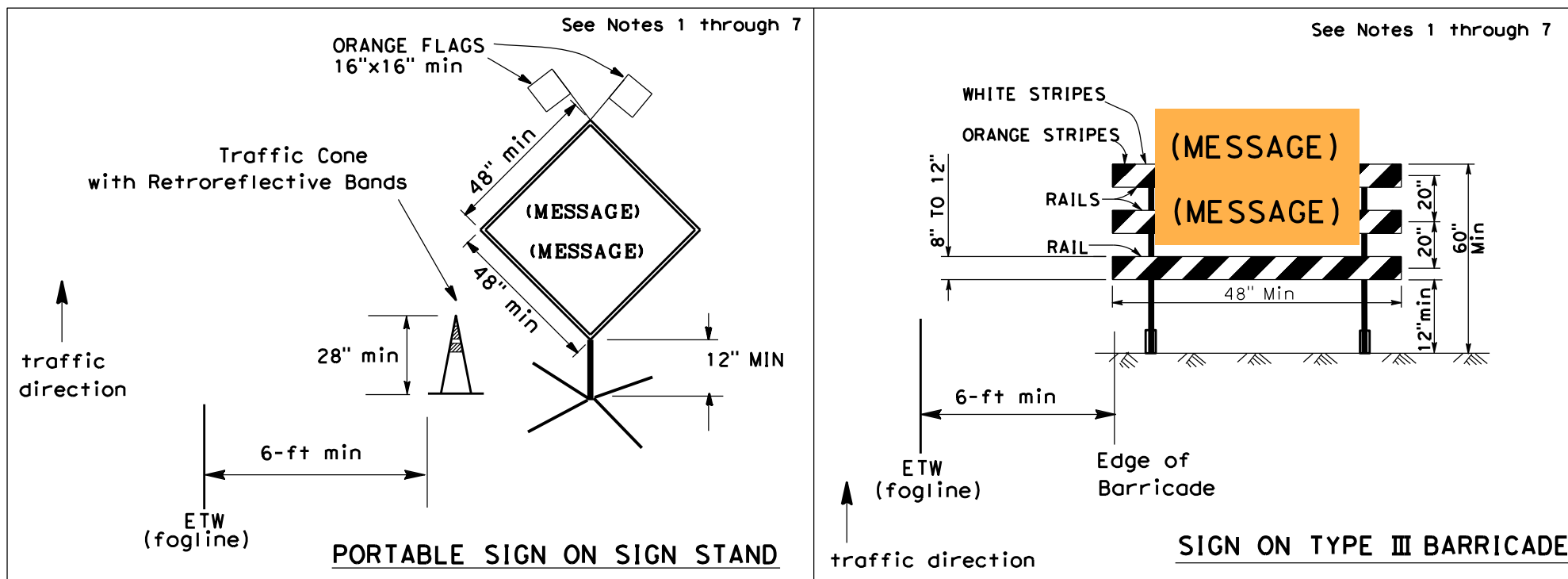
Example 1: A trench with limits shown hatched above, would require a grind and overlay of the entire traffic lane width.

Example 2: A trench with limits shown hatched above, would require a grind and overlay from the center of traffic lane to the right edge of traveled way.

|   |  |
|---|--|
|  | Required Width for Grind and Overlay         |
|  | Limits of Trench Repair                      |
| *   | For Paved Shoulder Widths 8' or greater only |

Pavement repair in open graded pavement surfaces will require in kind replacement of surface layer.

# TYPICAL TEMPORARY SIGN SUPPORTS DETAILS

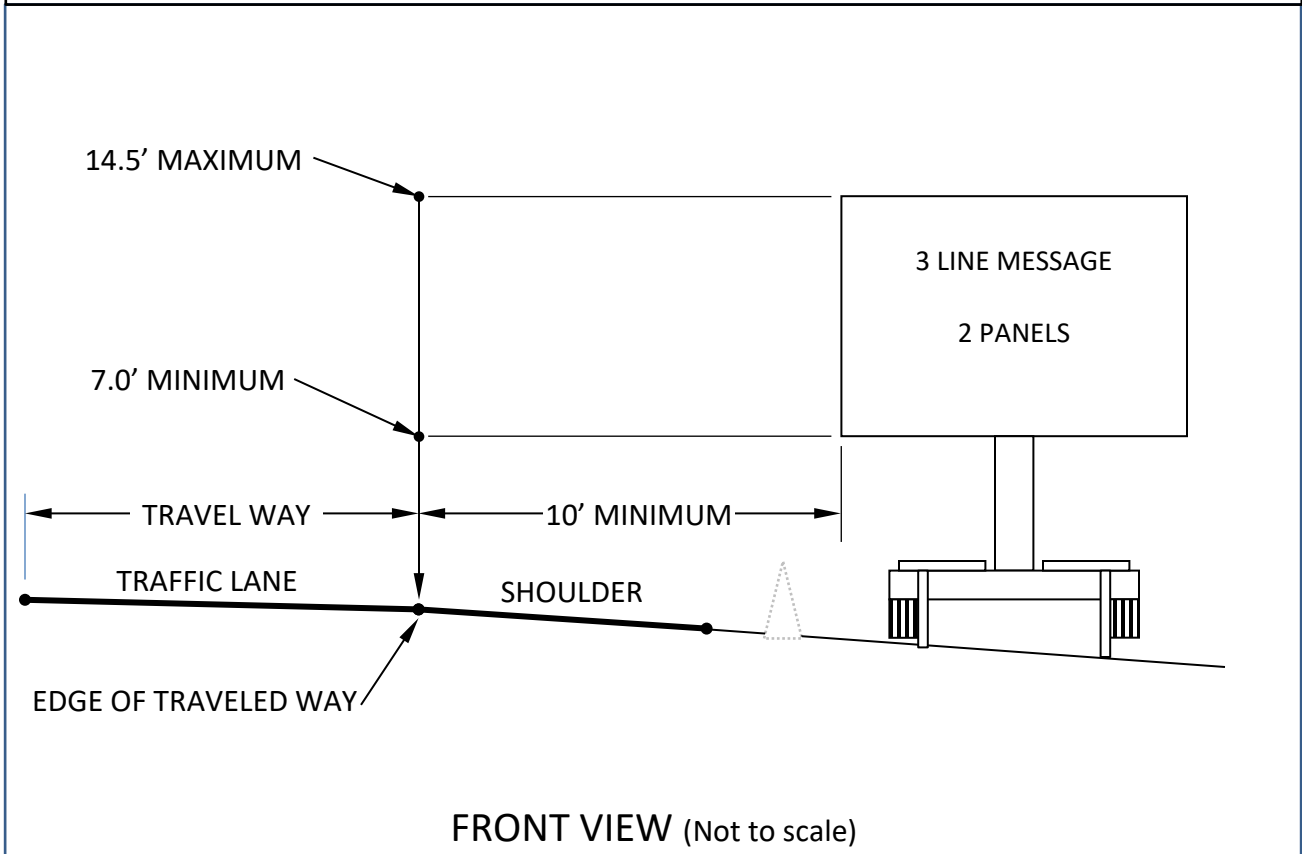
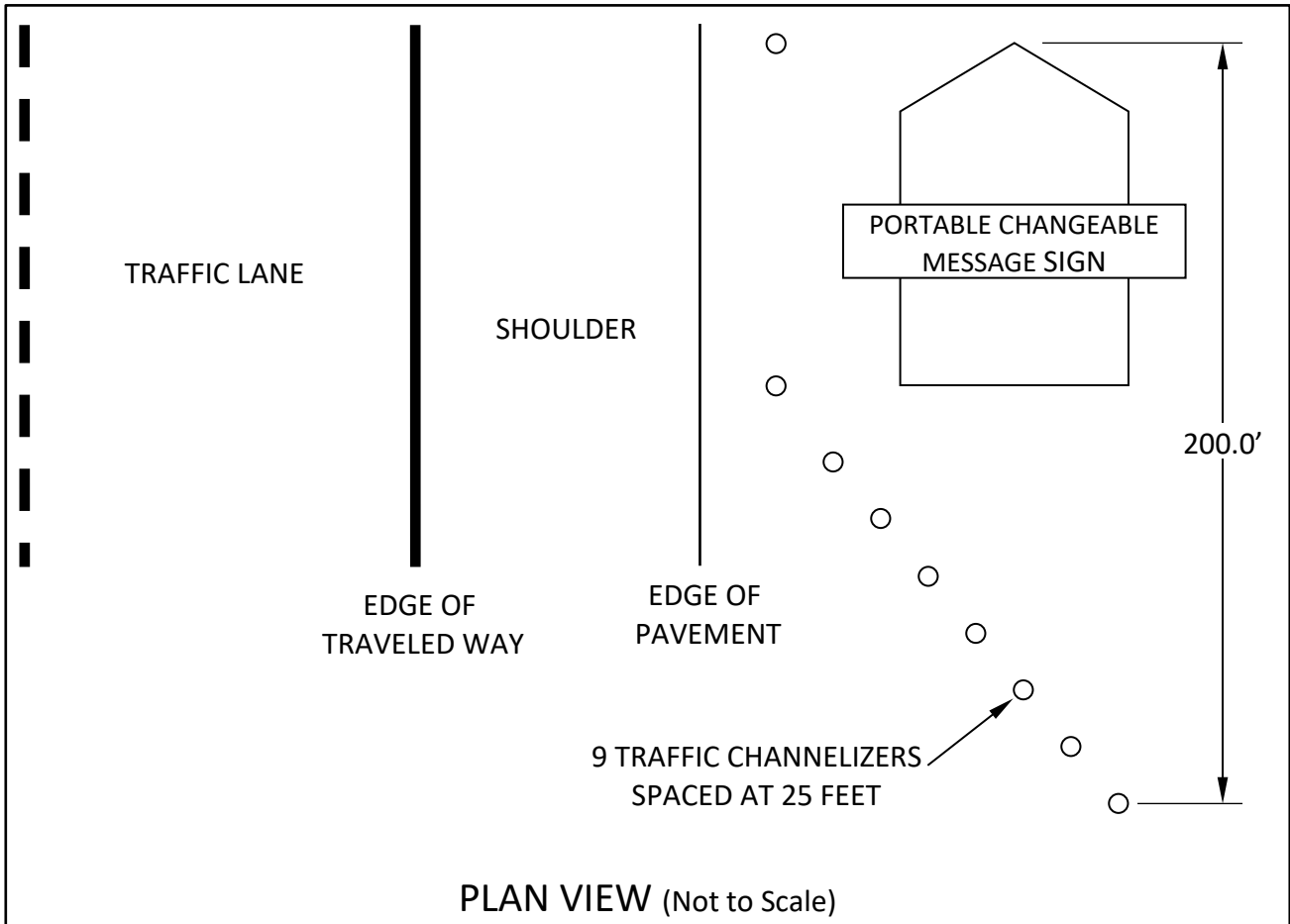


## NOTES

(REV. 3/18/2016)

1. Maintain a 4-foot minimum clearance on sidewalks at all times and a minimum 5-foot clearance adjacent to a drop off, such as a curb face or gutter.
2. Signs shall not interfere with the visibility of other existing signs.
3. Sign supports must be NCHRP Report 350 eligible or MASH (Manual for Assessing Safety Hardware) crashworthy. Information on NCHRP Report 350 eligible devices can be found at: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/wzd/workzone\\_pdmnu.cfm](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/workzone_pdmnu.cfm) Information on MASH can be found at: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/ctrmeasures/mash/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/ctrmeasures/mash/)
4. Sign message, color, shape, and size must conform to the current Caltrans Standards Specifications and current CA MUTCD (California Manual on Uniform Traffic Control Devices). (i.e. Rectangular or diamond shape) Information on Caltrans Sign Specifications can be found at: <http://www.dot.ca.gov/hq/traffops/engineering/control-devices/specs.htm>
5. Signs mounted on Type III barricades shall not cover the bottom rail.
6. Sign stands should be weighted down per the stand manufacturer's recommendations. (i.e. sand/gravel bags)
7. Signs to be placed for more than 3 consecutive days, shall be post mounted per Caltrans Standard Plans RS1 through RS4.

# TYPICAL PORTABLE CHANGEABLE MESSAGE SIGN PLACEMENT



At the completion of the permitted work, please complete the form below and submit an electronic copy of this page sent by email to alan.kwong@dot.ca.gov.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

**NOTICE OF COMPLETION**

TR-0128 (REV. 6/2001) CT #7541-5529-1

PERMIT # 0522 NUE 0034

Permit Inspector: Jim McKrell / Romano Verlengia

Dear Sir or Madam:

All work authorized by the above numbered permit was completed on:

DATE: \_\_\_\_\_

SIGNATURE OF PERMITTEE: \_\_\_\_\_

County of San Luis Obispo Public Works Department

FM 92 1546 M

**ADA Notice**

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STANDARD ENCROACHMENT PERMIT APPLICATION**  
TR-0100 (REV 12/2018)

| FOR CALTRANS USE      |                    |
|-----------------------|--------------------|
| TRACKING NO.          | 0522 NUE 0034      |
| DIST/CO/RTE/PM        | 05-SLO-VAR-VAR/VAR |
| SIMPLEX STAMP         |                    |
| DATE OF SIMPLEX STAMP | 01/18/2022         |

Complete ALL fields, write "N/A" if not applicable. Type or print clearly.  
This application is not complete until all requirements have been approved.

Permission is requested to encroach on the State Highway right-of-way as follows:

|   |                     |   |
|---|---------------------|---|
| 1. COUNTY<br>San Luis Obispo  | 2. ROUTE<br>Various | 3. POST MILE<br>NA  |
| 4. ADDRESS OR STREET NAME<br>San Luis Obispo County   | 5. CITY<br>NA       |   |
| 6. CROSS STREET (Distance and direction from project site)<br>NA  |                     |   |
| 7. WORK TO BE PERFORMED BY<br><input checked="" type="checkbox"/> APPLICANT <input type="checkbox"/> CONTRACTOR   |                     | 8. IS THIS APPLICATION FOR THE CONTRACTOR'S (DOUBLE) PERMIT?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If "YES", provide the Parent Permit Number |
| 9. ESTIMATE START DATE<br>February 26, 2022   |                     | 10. ESTIMATED COMPLETION DATE<br>February 25, 2023  |
| 11. ESTIMATED NUMBER OF WORKING DAYS WITHIN STATE HIGHWAY RIGHT-OF-WAY<br>As needed   |                     |   |
| 12. ESTIMATED CONSTRUCTION COSTS WITHIN STATE HIGHWAY RIGHT-OF-WAY<br>Varies  |                     |   |
| 13. HAS THE PROJECT BEEN REVIEWED BY ANOTHER CALTRANS BRANCH?<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If "YES", which branch?   |                     |   |
| 14. FUNDING SOURCE(S)<br><input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> LOCAL <input type="checkbox"/> PRIVATE <input type="checkbox"/> SB 1 (ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017) |                     |   |
| 15. CALTRANS PROJECT CODE (ID)<br>NA  |                     | 16. APPLICANT'S REFERENCE / UTILITY WORK ORDER NUMBER<br>Varies   |

17. DESCRIBE WORK TO BE DONE WITHIN STATE HIGHWAY RIGHT-OF-WAY  
Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, traffic control plans, etc.  
  
General annual maintenance for County of San Luis Obispo Public Works

18 (a). PORTION OF STATE HIGHWAY RIGHT-OF-WAY WHERE WORK IS BEING PROPOSED (check all that apply)

Traffic lane  Shoulder  Sidewalk  Median  At or near an intersection  Mobile work

Outside of the shoulder, \_\_\_\_\_ feet from edge of pavement  Other \_\_\_\_\_

18 (b). PROPOSED TRAFFIC CONTROL PLANS AND METHOD

No traffic control needed  State Standard Plans (T-Sheets) # \_\_\_\_\_

Project specific Traffic Control Plans included  To be submitted by contractor

|  |                                     |                           |   |                       |   |
|--|-------------------------------------|---------------------------|---|-----------------------|---|
| 19. EXCAVATION   | MAX. DEPTH (in)<br>varies           | MIN. DEPTH (in)<br>varies | AVG. WIDTH (in)<br>varies                               | LENGTH (ft)<br>varies | SURFACE TYPE (e.g. Asphalt, concrete, soil, etc.)<br>varies |
| 20. PIPES  | PRODUCT BEING TRANSPORTED<br>varies |                           | CARRIER PIPE<br>DIAMETER var. (in.) MATERIAL var. _____ |                       | CASING PIPE<br>DIAMETER var. (in.) MATERIAL varies _____    |
| PROPOSED INSTALLATION METHOD (e.g. HDD, Bore & Jack, Open Cut, etc.)<br>varies |                                     |                           |   |                       | VOLTAGE / PSIG<br>varies                                    |

DOES THE PROPOSED PROJECT INVOLVE THE REPLACEMENT AND/OR ABANDONMENT OF AN EXISTING FACILITY?  
 NO  YES. If "YES", provide a description NA

21. IS A CITY, COUNTY OR OTHER PUBLIC AGENCY INVOLVED IN THE APPROVAL OF THIS PROJECT?  
 YES (if "YES", check the type of project AND attach the environmental documentation and conditions of approval)

COMMERCIAL DEVELOPMENT  BUILDING  GRADING  OTHER Environmental documents will be obtained when needed

CATEGORICALLY EXEMPT  NEGATIVE DECLARATION  ENVIRONMENTAL IMPACT REPORT  OTHER \_\_\_\_\_

NO (if "NO", check the category below which best describes the project AND answer questions A-K on page 2)

DRIVEWAY OR ROAD APPROACH, RECONSTRUCTION, MAINTENANCE OR RESURFACING  FENCE  EROSION CONTROL

PUBLIC UTILITY MODIFICATION, EXTENSIONS, HOOKUPS  MAILBOX  LANDSCAPING

FLAGS, SIGNS, BANNERS, DECORATIONS, PARADES AND CELEBRATIONS  OTHER \_\_\_\_\_

TRACKING NO. 0522 NUE 0034

**The following questions must be answered when a City, County or other public agency IS NOT involved in the approval of this project.**

Your answers to these questions will assist Caltrans staff in identifying any physical, biological, social or economic resources that may be affected by your proposed project within State Highway right-of-way and to determine which type of environmental studies may be required to approve your application for an encroachment permit. It is the applicant's responsibility for the production of all required environmental documentation and supporting studies and in some cases this may be costly and time consuming. If possible, attach photographs of the location of the proposed project. Answer these questions to the best of your ability. Provide a description of any "YES" answers (type, name, number, etc.).

- A. Will any existing vegetation and/or landscaping within State Highway right-of-way be disturbed?  
Any existing vegetation or landscaping will be protected to minimize disturbance.
  - B. Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the proposed project?  
General maintenance activities will occur in various locations.
  - C. Is the proposed project located within five miles of the coast line?  
General maintenance activities will occur in various locations.
  - D. Will the proposed project generate construction noise levels greater than 86 decibels (dBA) (e.g. Jack-hammering, pile driving)?  
Equipment used for general maintenance activities may vary, but standard noise mitigation measures will be implemented.
  - E. Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?  
General maintenance activities will occur in various locations.
  - F. Are there any recreational trails or paths within the limits of the proposed project?  
General maintenance activities will occur in various locations.
  - G. Will the proposed project impact any structures, buildings, rail lines or bridges within State Highway right-of-way?  
General maintenance activities will occur in various locations.
  - H. Will the proposed project impact access to any businesses or residences?  
Project will be implemented in a manner that maintains access to businesses/residences as feasible and to minimize impacts.
  - I. Will the proposed project impact any existing public utilities or public services?  
Project will be implemented in a manner that minimizes impacts to existing public utilities and public services.
  - J. Will the proposed project impact any existing pedestrian facilities, such as sidewalks, crosswalks or overcrossings?  
Project will be implemented in a manner that minimizes impacts to existing pedestrian facilities.
  - K. Will new lighting be constructed within or adjacent to State Highway right-of-way?  
General maintenance activities will occur in various locations.
22. Will the proposed project cause a substantial change in the significance of a historical resource (45 years or older), or cultural resource?  YES  NO (if "YES", provide a description)
23. Will the proposed project be on an existing State Highway or street where the activity involves removal of a scenic resource? (e.g. A significant tree or stand of trees, a rock outcropping or a historic building)  YES  NO (if "YES", provide a description)
24. Is work being done on the applicant's property in addition to State Highway right-of-way?  YES  NO  
(If "YES", attach 6 complete sets of site and grading plans)
25. Will the proposed project require the disturbance of soil?  YES  NO  
If "YES", estimate the area of disturbed soil within State Highway right-of-way in acres: Maintenance activities will occur in various locations  
and estimate the area of disturbed soil outside State Highway right-of-way in acres: Maintenance activities will occur in various locations
26. Will the proposed project require dewatering?  YES  NO  
If "YES", estimate Total gallons AND gallons/month. varies (Total gallons) AND varies (gallons/month)  
SOURCE\*:  STORMWATER  NON-STORMWATER  
(\*See Caltrans SWMP for definition of non-storm water discharge: <http://www.dot.ca.gov/env/stormwater/>)
27. How will any storm water or ground water be disposed?  
 Storm Drain System  Combined Sewer / Stormwater System  Stormwater Retention Basin  N/A  
 Other (explain) Stormwater/groundwater will be disposed of per requirements of project conditions.



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| TRACKING NO.<br>0522 NUE 0034 |
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**READ THE FOLLOWING CLAUSES PRIOR TO SIGNING THIS ENCROACHMENT PERMIT APPLICATION.**

The applicant's submission of this application to the California Department of Transportation constitutes the applicant's agreement and representation that the work or other activity contemplated by the encroachment permit application shall comply with all applicable standards, specifications, policies, requirements, conditions, and regulations of the California Department of Transportation, and the applicant understands the application may be denied if there is non-compliance with any of the above. An exception process exists and may result in approval of a non-compliant encroachment, in the discretion of the California Department of Transportation, but the exception process may require additional time to complete. The applicant understands and agrees all work or other activity contemplated by the encroachment permit application is subject to inspection and oversight by the California Department of Transportation. The applicant understands and agrees encroachment permit fees must still be paid if an application is withdrawn or denied. The applicant understands a denial may be appealed, in accordance with California Streets and Highways Code, Section 671.5, and the related regulations found in California Code of Regulations, Title 21, Division 2, Chapter 8, Article 2.

The applicant understands and agrees that immediately upon issuance of the encroachment permit the applicant is bound by, subject to, and must comply with the "Encroachment Permit General Provisions" (TR-0045), "Stormwater Special Provisions" (TR-0400) and any other applicable Special Provisions and Conditions of the encroachment permit. The "Encroachment Permit General Provisions" (TR-0045), and the Stormwater Special Provisions (TR-0400) are available at: [http://www.dot.ca.gov/trafficops/ep/docs/Appendix\\_K\\_\(WEB\).pdf](http://www.dot.ca.gov/trafficops/ep/docs/Appendix_K_(WEB).pdf). If a paper copy is needed of the "Encroachment Permit General Provisions" (TR-0045) and/or "Stormwater Special Provisions" (TR-0400), please contact the District Office of Encroachment Permits. Their contact information is available at: [http://www.dot.ca.gov/trafficops/ep/docs/Appendix\\_G\\_\(WEB\).pdf](http://www.dot.ca.gov/trafficops/ep/docs/Appendix_G_(WEB).pdf). The "Encroachment Permit General Provisions" (TR-0045) and any other applicable Special Provisions and Conditions will be provided as part of the encroachment permit. Information about Stormwater requirements is available at the Internet address: <http://www.dot.ca.gov/hq/construc/stormwater/>.

The applicant understands an encroachment permit may be denied, revoked, and/or a bond may be required, for non-payment of prior or present encroachment permit fees. An encroachment permit is not a property right and does not transfer with the property to a new owner. Each of the persons purporting to execute this application on behalf of the applicant and/or on behalf of the applicant's authorized agent or engineer represents and warrants such person has full and complete legal authority to do so and to thereby bind applicant to the terms and conditions herein and to the terms and/or conditions of the encroachment permit. Applicant understands and agrees this application may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Executed copies of this application and/or its counterparts may be reproduced and/or exchanged by copy machine, mailing, facsimile, or electronic means (such as e-mail), and such copies shall be deemed to be effective as originals.

|  |  |   |
|--|--|---|
| 28. NAME OF APPLICANT (Project or Property Owner or Organization)<br>County of San Luis Obispo Public Works Department   |  |   |
| ADDRESS OF APPLICANT (Include City, State and Zip Code)<br>County Government Center, Room 206  |  |   |
| E-MAIL ADDRESS<br>pwd@co.slo.ca.us   | PHONE NUMBER<br>(805)781-5252          | FAX NUMBER<br>(805) 781-1229  |
| 29. NAME OF AUTHORIZED AGENT / ENGINEER<br>(A "Letter of Authorization" is required if different from #28)<br>John Diodati   |  | IS A LETTER OF AUTHORIZATION ATTACHED?<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City, State and Zip Code)<br>County Government Center, Room 206  |  |   |
| E-MAIL ADDRESS<br>pwd@co.slo.ca.us   | PHONE NUMBER<br>(805) 781-5252         | FAX NUMBER<br>(805) 781-1229  |
| 30. NAME OF BILLING CONTACT (Same as #28 <input type="checkbox"/> Same as #29 <input checked="" type="checkbox"/> )  |  |   |
| BILLING ADDRESS WHERE INVOICE(S) IS / ARE TO BE MAILED (Include City, State and Zip Code)  |  |   |
| E-MAIL ADDRESS   | PHONE NUMBER                           | FAX NUMBER  |
| * I hereby certify under penalty of perjury under the laws of the State of California that the information in this application and any document submitted with or in support of this application are true and correct to the best of my knowledge and belief, and that copies of any documents submitted with or in support of this application are true and correct copies of unaltered original documents. I further understand that if I have provided information that is false, intentionally incomplete, or misleading I may be charged with a crime and subjected to fine or imprisonment, or both fine and imprisonment. (Penal Code Section 72) |  |   |
| 31. SIGNATURE OF APPLICANT OR AUTHORIZED AGENT*  | 32. PRINT OR TYPE NAME<br>John Diodati |   |
| 33. TITLE<br>Director of Public Works  | 34. DATE<br>1/12/22                    |   |