



ADDENDUM NO. 2
TO PROJECT SPECIFICATIONS FOR
RAW WATER LINE REPLACEMENT PROJECT
PROJECT NO. WTR-00016

DATE: January 17, 2024
TO: Plan Holders
SUBJECT: Addendum No. 2
BID OPENING DATE: January 26, 2024 at 2:00 PM

This Addendum No. 2 forms a part of the Bidding and Contract Documents and modifies the Project Specifications as described below:

The following revisions shall be made to the Bid Documents:

See attached Addendum No. 2, Items 1-44, dated January 17, 2024.

All other specifications are as originally described.

Please sign this addendum in the space provided and include the signed copy of the addendum with your bid documents. **NOTE THAT BID DOCUMENTS SUBMITTED WITHOUT A SIGNED COPY OF THIS ADDENDUM MAY BE CONSIDERED NON-RESPONSIVE AND MAY BE REJECTED.**

Cristal Munoz, Acting City Clerk _____, 2024

The undersigned has received and read this addendum.

Contractor Signature

Name (Printed) _____ Date _____

ADDENDUM NO. 2

TO THE
RAW WATER LINE REPLACEMENT PROJECT (Project WTR-00016)
FOR
THE CITY OF FORT BRAGG, CA

This addendum shall be considered part of the contract documents and shall be acknowledged by the bidder in his/her Cover Letter.

The cost of meeting the requirements herein shall be included in the bid prices for the respective items of work, or in related items of work if no specific item is specified. No additional compensation will be allowed.

This addendum makes the following changes to the contract documents:

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
1.	Notice Inviting Bids	Edit Article 1.01 to read: Notice Inviting Bids: Notice is hereby given that sealed bids will be received by the City Clerk of the City of Fort Bragg ("City"), 416 North Franklin Street, Fort Bragg, California 95437 on or before 2:00 PM PST, on January 26, 2024 for the following public work: The bid opening date is changed in all other locations that it appears in the bid document to coincide with the date noted above. All other details of the bid opening remain unchanged.
2.	Schedule of Bid Prices	Replace the Schedule of Bid Prices with the attached Schedule of Bid Prices (rev 1) that incorporates changes noted below.
3.	Schedule of Bid Prices, Item 4	The Estimated Quantity of Bid Item 4 is edited to 0. Bidders shall multiply 0 times the unit price to determine the total bid price for Bid Item 4.
4.	Schedule of Bid Prices, Item 10	The Estimated Quantity of Bid Item 10 is edited to 51. Bidders shall multiply 51 times the unit price to determine the total bid price for Bid Item 10.
5.	Schedule of Bid Prices, Item 21	The Estimated Quantity of Bid Item 21 is edited to 0. Bidders shall multiply 0 times the unit price to determine the total bid price for Bid Item 21.
6.	Schedule of Bid Prices,	The Estimated Quantity of Bid Item 24 is edited to 28. Bidders shall multiply 28 times the unit price to determine the total bid

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
	Item 24	price for Bid Item 24.
7.	Schedule of Bid Prices, Item 25	The Estimated Quantity of Bid Item 25 is edited to 0. Bidders shall multiply 0 times the unit price to determine the total bid price for Bid Item 25.
8.	Schedule of Bid Prices, Item 28	The Description of Bid Item 28 shall be revised to read "Slope Stabilization" with no reference to any allowance.
9.	Specification 01 50 00	Edit Specification 01 50 00, 1.14, B to read: "The Contractor shall use enclosures and fencing as desired to maintain the security of the site at all times. The Contractor is responsible for public safety and for the security of his own equipment on the site. The Contractor should plan to provide sufficient security to minimize risk to the City and losses by the Contractor."
10.	Specification 01 50 00	Edit the title of Specification Section 01 50 00, 1.20 to be "1.20 PEST AND RODENT CONTROL INSIDE BUILDINGS". Specification 01 50 00, 1.20 is only intended to apply at the Newman Pump Station, not the pipeline portion of the project.
11.	Specification 26 05 00	Remove all references to a radio path study. No radio path study was completed by the City. Bidders shall include pricing to construct the mast and antenna systems as shown in the plans and as described in the specifications.
12.	Specification 31 10 00	Remove Specification 31 10 00, 3.4, C.
13.	Specification 31 23 16.13	Remove Specification 31 23 16.13, 3.4, H.
14.	Specification 33 14 13	Change AWWA reference to DIP fittings by editing Specification 33 14 13, 2.1, A, 6, a to read: "Material: Ductile iron; comply with AWWA C153.
15.	Specification 33 14 13	Remove the requirement for double thick cement mortar lining of DIP fittings by editing Specification 33 14 13, 2.1, A, 6, b, 1) to read: "Cement-Mortar Lining: Comply with AWWA C104.
16.	Plan Sheet C4	Replace Plan Sheet C4 with the attached plan sheet. Also replace Plan Sheet G1 with the attached plan sheet.
17.	SWPPP Plans	The attached Water Pollution Control Drawings are added to the bid documents and should be considered by all bidders. Include costs for implementing water pollution control measures in Bid

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
		Item 5.
18.	Question 1	<p>Q1: With regard to Specification Section 33 05 07, is the contractor responsible to pay for the Caltrans Encroachment Permit fee?</p> <p>A1: Not the original application fee. The City has already obtained the Caltrans Encroachment Permit and it is attached to this Addendum 2.</p> <p>Note that the Caltrans Encroachment Permit expires March 1, 2024. The Contractor is required to apply for the rider mentioned below and pay any fees required to extend the permit duration sufficient to match the Contractors anticipated construction schedule.</p> <p>See Plan Sheet 2, General Notes, Regulations and Permits, Note 7. The Contractor is responsible to obtain encroachment permits, including the Caltrans permit. In this case, the Contractor is responsible to comply with all permit conditions including District 1 Special Provisions, Provision #16 to request a rider for work performed by a contractor.</p> <p>Also note that the Contractor is required to obtain Encroachment Permits from agencies other than Caltrans, including the County.</p>
19.	Question 2	<p>Q2: Will installing the DIP pipe over the Newman Channel require netting or water protection?</p> <p>A2: No netting is shown on the plans or should be included in the bid pricing.</p>
20.	Question 3	<p>Q3: Would it be possible to directionally drill the Hare Creek crossing using HDPE and eliminate the casing?</p> <p>A3: No. The casing was included so that if the crossing needs replacement in the future, it can be pushed or pulled through the casing and not disturb the channel.</p>
21.	Question 4	<p>Q4: During the pre-bid meeting a detail of the Hare Creek crossing was mentioned. Where can I find it?</p> <p>A4: The Hare Creek crossing is shown in more detail on Sheet C37.</p>
22.	Question 5	<p>Q5: The 6" FM going into the pump station appears to be PVC and appears to cross the spillway without any support. Is there a detail for this work, if there is no detail, could the</p>

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
		City create one? A5: Please refer to profile drawing on Sheet C28, Note 13 on Sheet C26, and page 5 of the Pre-Bid Meeting Agenda. The Contractor will prepare and provide the design for this aerial crossing of the spillway.
23.	Question 6	Q6: Bid Item 4, SWPPP and erosion control, where can I find the quantities and locations for this work? A6: See Addendum Item 17 above.
24.	Question 7	Q7: Should there be a dollar amount attributed to the Slope Stabilization Allowance? A7: See Addendum Item 8 above.
25.	Question 8	Q8: Can fusible PVC pipe be used for the project? A8: Fusible PVC pipe has not been considered for the project and should not be included in the bid.
26.	Question 9	Q9: The specifications refer to an Owners Radio Path Study. Is the study available? A9: See Addendum Item 11 above.
27.	Question 10	Q10: Can the City remove the requirement for Contractors to provide Professional Liability Insurance? A10: Professional liability insurance is required as there are design elements such as the retaining wall at the pump station and the pipe spillway crossing that will need to be provided as part of the contract.
28.	Question 11	Q11: Does the Corrosion Protection bid item pertain to just the electrical systems or sheet metal work or does any of the underground piping need corrosion protection (cathodic)? A11: Bid Item 33, Corrosion Protection should only include pricing necessary to comply with the requirements of the design as shown on the plans and described in the specifications. There are no impressed current cathodic protection systems included in the design.
29.	Question 12	Q12: Which bid item should electrical costs be included? A12: Note the text preceding the Schedule of Bid Prices that says: "If an item of work is not specifically described by an Item Description below, it shall be included the most applicable item." Bid Item 27 is the most applicable item for electrical work.
30.	Question 13	Q13: There is no detail on the retaining wall at the Newman Pump Station.

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
		A13: Correct. Note the note on Section 1/C26 that says “CMU retaining wall, Contractor to design and submit stamped structural plans to Engineer for approval.” The Contractor is responsible to prepare the design, get the design approved, and then construct the wall.
31.	Question 14	<p>Q14: What traffic control standards apply to the various roads affected by construction?</p> <p>A14: Construction in City right-of-way must follow City Standards. See City Standard Drawings 708, 709, and 710. Construction in County right-of-way must follow County Standards. See County Road Standards Section E.4 – Construction Area Traffic Control. Construction in State right-of-way must follow State Standards. See the attached Encroachment Permit and other referenced State publications. Construction in private roads should follow County Standards.</p>
32.	Question 15	<p>Q15: What work will be required by the Contractor’s surveyor?</p> <p>A15: The Contractor is required to meet all requirements of the design, including but not limited to the following. See Plan Sheet G2, General Notes, General Note 15 which says that the Contractor must keep daily As-Built Plans. Given that this is a cross country pipeline, it follows that the actual location of the pipeline will be required to be documented. It is assumed that the Contractor will accomplish this by survey however the Contractor is free to propose the method of his choice for consideration by the City.</p>
33.	Question 16	<p>Q16: Does the quantity included for Bid Item 17 Rock Excavation correspond to the Geotechnical Report?</p> <p>A16: Bidders should bid the quantity on the Schedule of Bid Items.</p>
34.	Question 17	<p>Q17: Has the City identified a specific area that is applicable to Bid Item 18 – Unstable Trench Foundation?</p> <p>A17: No. This item and its quantity are included as contingencies in case the item is needed.</p>
35.	Question 18	<p>Q18: What work is to be included in Bid Item 28 – Slope Stabilization?</p> <p>A18: Contractors should include all costs required to complete the work as depicted on the plans and described in the specifications. Note the text preceding the Schedule of Bid Prices that says: “If an item of work is not specifically</p>

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
		described by an Item Description below, it shall be included the most applicable item.”
36.	Question 19	Q19: For Specification 01 50 00, 1.13, C, 2, are 6-foot high barriers required? A19: 4-foot tall, orange temporary plastic construction safety fence may be used as an alternative to satisfy this requirement.
37.	Question 20	Q20: Where does Specification Section 01 50 00, 1.14, C apply? A20: This section applies to the Newman Pump Station. Once electrical and mechanical components are brought on to the site they must be protected from weather, theft, and other damage in a temporary weathertight enclosure.
38.	Question 21	Q21: With regard to Specification Section 01 50 00, 1.15, does the City have an existing security system or program? A21: The City does not have a formal security program that will apply to this project. Also, see Addendum Item 9 above.
39.	Question 22	Q22: With regard to Specification Section 01 50 00, 1.19, can the City provide maximum allowable noise? A22: The maximum allowable noise is 85 dBA at 50-feet. Also, work shall be limited to an allowable construction window of 7am – 7pm on weekdays.
40.	Question 23	Q23: Does Specification Section 31 10 00, 3.4, C apply to this project? A23: No. Specification Section 31 10 00, 3.4, C is edited to read “Not used.”
41.	Question 24	Q24: Does Specification Section 31 10 00, 3.4, D apply to this project? A24: Yes. Note that the City does have an Integrated Pest Management Plan that prohibits the use of glyphosate (Roundup) on City property without an exception, which may be applied for. The use of herbicides falls under the City’s Integrated Pest Management Plan which can be found at: https://www.city.fortbragg.com/home/showpublisheddocument/1476/637715275968730000 . The Contractor should familiarize themselves with the policy.
42.	Question 25	Q25: Specification Section 31 23 16.13, 3.4, H appears to conflict with the City Standard Trench Detail shown on Sheet C34. Please advise. A25. Specification Section 31 23 16.13, 3.4, H is edited to read

<u>Item</u>	<u>Page or Drawing</u>	<u>Description</u>
		"Not used." Contractors should follow the City Standard Trench Detail shown on Sheet C34.
43.	Question 26	Q26: With regard to Specification Section 32 92 19, 2.1, does the City have a seed mixture requirement? A27: The City has no standard requirement. It is anticipated that specific environmental permits that are not yet secured may include requirements. For bidding purposes, Contractors should assume a mix of native plants with no invasive species in the seed mix.
44.	Question 27	Q27: Is it possible to get a Measurement and Payment specification section? A27: No. Bidders shall include their pricing in the most applicable bid item. Note the text preceding the Schedule of Bid Prices that says: "If an item of work is not specifically described by an Item Description below, it shall be included the most applicable item."

The changes detailed in this Addendum No. 2 are hereby made part of the Contract Documents titled Raw Water Line Replacement Project, dated November 2023.



Date: January 17, 2024

Chad R. Coleman, P.E.
Coleman Engineering, Inc.

Attachments:

- Schedule of Bid Prices (rev 1)
- Plan Sheet G1
- Plan Sheet C4
- Water Pollution Control Drawings (Sheets 1-13)
- Caltrans Encroachment Permit

SCHEDULE OF BID PRICES (rev 1)

All Bid items, including lump sums, unit prices and alternates (if any), must be filled in completely, in ink, and included in the bid proposal. The total cost of the project must be inclusive of all costs, whether direct or indirect, including profit and overhead, federal, state and local taxes, permit fees, etc. If an item of work is not specifically described by an item Description below, it shall be included in the most applicable item. It is intended that the TOTAL BASE BID listed below be inclusive of all costs to construct the improvements as described in the plans and specifications. Quote in figures only, unless words are specifically requested.

Item	Description	Estimated Quantity	Unit	Unit Price	Total
1	Mobilization	1	LS	\$	\$
2	Demobilization	1	LS	\$	\$
3	Site Specific Safety Plan	1	LS	\$	\$
4	SWPP Plan	0	LS	\$	\$
5	Construction SWPPP and Erosion Control	1	LS	\$	\$
6	Clearing and Grubbing RoW	1	LS	\$	\$
7	Traffic Control	1	LS	\$	\$
8	Construction Survey	1	LS	\$	\$
9	Dewatering	1	LS	\$	\$
10	10" DIP Waterline – Bridge Crossing	51	LF	\$	\$
11	10" PVC Waterline – Unpaved Access Road	2,949	LF	\$	\$
12	10" PVC Waterline – Paved Road	50	LF	\$	\$
13	10" PVC Waterline – Unimproved RoW	6,089	LF	\$	\$
14	10" PVC Waterline – Gravel Road	2,982	LF	\$	\$
15	10" PVC Waterline – Remove and Replace	166	LF	\$	\$
16	6" PVC Force Main – Summers Lane	362	LF	\$	\$
17	Rock Excavation	400	CY	\$	\$

18	Unstable Trench Foundation	400	CY	\$	\$
19	1" Air Release Valves	9	EA	\$	\$
20	2" Low Point Blow-Off Valve	6	EA	\$	\$
21	6" Gate Valve	0	EA	\$	\$
22	10" Flange Couplings	17	EA	\$	\$
23	Trench Dams	26	EA	\$	\$
24	10" Gate Valve	28	EA	\$	\$
25	18" Gate Valve	0	EA	\$	\$
26	Noyo River Valve Vault	1	EA	\$	\$
27	Pump Station, including connecting piping	1	LS	\$	\$
28	Slope Stabilization	1	LS	\$	\$
29	20" Bore and Jack – Highway 20 Crossing	40	LF	\$	\$
30	Bore Pit	1	EA	\$	\$
31	Receiving Pit	1	EA	\$	\$
32	Slurry Fill Abandon Existing Pipe	110	LF	\$	\$
33	Corrosion Protection	1	LS	\$	\$
34	Pipeline Cleaning and Testing	1	LS	\$	\$
35	Connect to Existing Waterline	1	LS	\$	\$
36	Trenched Underdrain System	130	LF	\$	\$
37	Place and Maintain Final Erosion Control	1	LS	\$	\$
38	Final Restoration	1	LS	\$	\$
				TOTAL BASE BID PRICE	\$

TOTAL BASE BID PRICE (Items 1-7 inclusive):

(Indicate Bid Price in Words)

(Indicate Bid Price in Dollar Figures)

ADDITIVE BID ITEM: The City may consider substitution of the specified AWWA C-900 pipe with an alternative AWWA C-909 pipe. If the City elects to make this substitution for all pipe in the project, Additive Bid Item No. 8 is the lump sum price for making the change. If the City chooses to make this substitution, the additive bid price will be added to the Total Base Bid above to calculate the final bid price.

Bids may be evaluated based on the lowest Total Base Bid or on Total Base Bid plus Additive Bid Item No. 39. The City will select the evaluation method that is most advantageous to the City.

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total
39	Change AWWA C-900 pipe to AWWA C-909, Class 235 pipe	12,236	LF	\$	\$
TOTAL BID PRICE FOR ALTERNATE					\$

TOTAL BID PRICE INCLUDING BASE BID AND ALTERNATES (Items 1-8, inclusive):

(Indicate Bid Price in Words)

(Indicate Bid Price in Dollar Figures)

1. The undersigned acknowledges that the Apparent Low Bidder will be determined as provided in Notice to Bidders and Instructions to Bidders.
2. Subcontractors for work are listed in Subcontractors List, submitted herewith.
3. The undersigned Bidder understands that City reserves the right to reject this Bid.
4. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Award, is mailed or delivered to the undersigned Bidder within the time described in Paragraph 2 of this Document or at any other time thereafter before it is withdrawn, the undersigned Bidder will execute and deliver the documents required by Instructions to Bidders within the times specified therein.
5. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.
6. The undersigned Bidder herewith encloses cash, a cashier's check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in the Instructions to Bidders, in the amount of ten percent (10%) of the Total Bid Price and made payable to the **CITY OF FORT BRAGG**.
7. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in the Agreement's General Conditions and to complete all Work within the time specified in the Agreement.

ENCROACHMENT PERMIT

DOT TR-0120 (REV 05/2023)

Permit No.
01-23-N-UJ-0297In compliance with your application of June 15, 2023Dist/Co/Rte/PM
01/MEN/20/PM 1.82

Reference Documents:

Permit Approval Date
August 11, 2023 Utility Notice No. _____ of _____

Performance Bond Amount (1)

Payment Bond Amount (2)

 Agreement No. _____ of _____

\$0

\$0

 R/W Contract No. _____ of _____

Bond Company

 Project code (ID): _____ CFC #: _____

N/A

 Applicant's Reference/ Utility Work Order No. WTR-00016

Bond Number (1)

Bond Number (2)

\$ N/A

\$ N/A

TO:

City of Fort Bragg
Attn: Diane O'Connor
416 N. Franklin Street
Fort Bragg, CA 95437
(707)961-2823x134

, PERMITEE

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

Enter the State highway right of way at post mile 1.828 on Route 20 in Mendocino County to install a 10 inch water main within a 20 inch steel casing transverse underground crossing via jack and bore method and associated traffic control.

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
 YES NO Utility Maintenance Provisions
 YES NO Storm Water Special 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 Storm Water Pollution Protection Plan

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

- YES NO Review
 YES NO Inspection
 YES Field Work
(if any Caltrans effort expended)

As-built Plans are Required

- YES NO

 YES NO The information in the environmental documentation has been reviewed and considered prior to approval of this permit.This permit is void unless the work is completed before March 1, 2024

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:
#1: Amber Twitchell
#2: Jose Calderon
#3:
#4:

APPROVED:

Matthew Brady, District Director

BY


Heidi Quintrell (Aug 14, 2023 09:58 PDT)

Heidi L. Quintrell, District Permit Engineer

ADA Notice

This document is available in alternative accessible formats. For more information, please contact the Forms Management Unit at (279) 234-2284, TTY 711, in writing at Forms Management Unit, 1120 N Street, MS-89, Sacramento, CA 95814, or by email at Forms.Management.Unit@dot.ca.gov.

DISTRICT 1 SPECIAL PROVISIONS

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

NOTIFICATIONS

1. The Permittee must arrange a preconstruction conference with the Department's Representative upon receipt of this encroachment permit. The Department's Representative, Jose Calderon, can be reached at (707) 502-5179 or jose.p.calderon@dot.ca.gov.
2. Prior to beginning permitted work on any given day, the Permittee must contact the Department's Representative.
3. The Permittee must notify Caltrans Electrical, Kevin Maier at telephone (707) 497-8620, at least 3 working days in advance of beginning work, to locate buried facilities prior to any excavations or demolition.

CLOSURE SCHEDULE AND CONDITIONS

4. The Permittee's attention is directed to Section 12-4.02A(3)(b), "Closure Schedule," of Standard Specifications 2023.
5. Delete General Provision 35, "Notification of Closures to Department and Traffic Management Center (TMC)," in its entirety and replace with: "The Permittee must notify the Department's Representative and the Department Lane Closure System (LCS) Representative, telephone (707) 834-2134, at least 10 days before conducting an activity that may cause a traffic impact, including initiating a lane closure. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, the TMC, LCS Representative and the Department's Representative must be notified immediately."

TRAFFIC MANAGEMENT CENTER

6. The Permittee must immediately communicate with the Caltrans District 1 Transportation Management Center by telephone at the time a planned lane, shoulder, or ramp closure's first cone is placed, last cone is picked up, or closure cancelled. The Permittee must provide the following information: Permittee's name, encroachment permit number, location (county, route and post mile limits), direction of closure (e.g. southbound, eastbound, full road), and the time when installing or removing the closure.

The Transportation Management Center telephone hours are as follows:

- 24 hours per day, 7 days per week: (707) 441-5747

TRAFFIC CONTROL

7. Traffic control authorized by this permit is limited to the implementation of a lane and/or shoulder closure.
8. Traffic control must be approved by the Department's Representative prior to scheduling work.
9. All Traffic Control conducted within the State highway right-of-way, must be performed by a qualified contractor.
10. Shoulder closures are allowed any time provided 5 feet of paved shoulder (or existing width, whichever is less) remains open for bicyclist access.
11. Do not place portable transverse rumble strip arrays or C45(CA) signs for one-way-reversing traffic control (refer to T13 of the Standard Plans 2023). Use advance warning sign distance "C" between signs W20-1 and W20-4.

PORTABLE CHANGEABLE MESSAGE SIGNS

12. Portable Changeable Message Signs (PCMS) must comply with Section 12-3.32, "Portable Changeable Message Signs," of Standard Specifications 2023.
13. Place one (1) PCMS in each direction of travel at locations shown on the plans or as directed by the Department's Representative.

AERIALY DEPOSITED LEAD MANAGEMENT

14. All work must be completed in compliance with "Hazardous Materials and Hazardous Waste Management," attached.

GENERAL

15. Permittee must schedule work at an appropriate time to reduce impact to the traveling public. Work schedule must be approved by Department's Representative prior to scheduling work.
16. The Permittee must request a rider for any work performed by a contractor or subcontractor who is not named as the Permittee.

DISTRICT 1 SPECIAL PROVISIONS

17. If a contractor is to be used that is NOT listed in Special Provision 16, then Permittee must submit form TR-0429. Form TR-0429 must be submitted to D1Permits@dot.ca.gov prior to the contractor performing work on the Permittee's behalf.
18. The Permittee's work is subordinate to any operations which the Department may conduct and must not delay or interfere with the Department's Forces or the Department's contractors/subcontractors.

PROSECUTION OF WORK

19. Permitted work must be diligently prosecuted to completion. Should suspension of work be necessary for any reason, maintain and protect work, including but not limited to trenches and excavation being closed (backfilled and compacted), and the area graded, obstructions removed, and erosion control measures installed to the satisfaction of the Department's Representative.

UTILITY

20. Transverse crossing must be normal (90 degrees) to the highway alignment where practical.
21. New installation under an existing roadbed must be made by boring and jacking, directional drilling or other methods approved by the Department's Representative. **This encroachment permit authorizes placement by bore and jack.** Any other installation method will require an approved rider with appropriate submittals.
22. The location of the proposed facility must be staked, and the location of the final alignment and grade of the facility approved by the Department's Representative prior to the start of any excavation. The Department's Representative can direct an alternate placement location of the facility as long as there are no other problems with moving the facility from the planned placement, for such issues as environmental concerns, constructability, or conflicting facilities. Such changes must be shown on the as-built plans.
23. Unless otherwise shown on the approved plans, Permittee must submit to the Department's Representative a written plan showing proposed installation methods and pavement/sidewalk repair and obtain approved by the Department's Representative before beginning work.
24. Markers must be installed to indicate the alignment of the utility lines to the line and grade approved by the Department's Representative along the alignment. In addition, a minimum of 2 markers must be placed at each underground run where the utilities enters and exits the State highway right-of-way. The markers must conform to the following standards:
 - a) Markers must be placed as close to the right-of-way as possible.
 - b) Markers must not be a risk to traffic or pedestrians.
 - c) Markers must face the highway.
 - d) Markers must have a weather proof label with the following information: (1) Type of Utility: (2) Distance to the Utility: (3) Depth of Utility from a benchmark.
 - e) Comply with Caltrans "breakaway" standard if located within the Clear Recovery Zone.
25. Markers must be placed so they do not interfere with vehicle recovery areas.
26. The Permittee must obtain a separate encroachment permit for any Open Cut method within the traveled way unless otherwise shown on submitted plans.
27. The Permittee is responsible to restore the right of way to pre-project conditions to the satisfaction of the Department's Representative, any costs associated with the restoration shall be borne by the Permittee.
28. Any painted markings must be made with water-soluble paint.

BORE AND JACK

29. Utility installations placed by the bore and jack method must be monitored to ensure that the integrity of the existing roadway elevations are maintained.
30. Permittee must establish a survey grid prior to performing work. For Survey Grid and Settlement Rod Details, see attached forms TR-0151 and TR-0152.
31. Encasements must comply with Section 603.3C "Encasements" of the Encroachment Permits Manual.
32. Bore and receiving pits must be located as far from the traveled way as feasible. At minimum, must be located 10 feet from the edge of pavement in rural areas, or at least 5 feet beyond the concrete curb and gutter or AC dike in urban areas, or at least 5 feet beyond the toe of slope of embankments.
33. Bore and receiving pits must be protected by placement of 6 feet chain link fence or Type-K barrier around them.

DISTRICT 1 SPECIAL PROVISIONS

34. Bore and receiving pits must be shored in accordance with Cal-OSHA requirements. Shoring of pits located within 15 feet of lanes within State highway right-of-way must not extend more than 36 inches in height above the pavement grade, unless authorized by a Caltrans' representative.
35. Reflectors must be affixed to the shoring on all sides facing traffic.
36. Pits must not affect any State facilities or create a hazard to the traveling public. Damaged State facilities must be replaced in-kind or repaired to their original state.
37. All pits should have crushed rock and sump areas to clear groundwater and water used to clean the casings. Pits must be lined with filter fabric when groundwater is found, and pumping is required.
38. Temporary Type-K railing must be placed at a 10:1 taper or as otherwise directed by the Department's Representative to maintain the integrity of the adjacent travel lane.

EQUIPMENT ON ROADWAY

39. All equipment used on the paved surface of the State highway must be rubber tired or rubber tracked, unless authorized by Department's Representative, and must comply with the legal weight requirements for operation on a State highway.

VEGETATION/TREE TRIMMING, REMOVAL AND CHEMICAL APPLICATION

40. Any vegetation removal within the right of way requires an approved permit rider prior to performing work.

DRAINAGE

41. Water must not pond on the State highway right-of-way.
42. Existing drainage must not be impaired
43. The Permittee shall be responsible for any change in the existing drainage pattern, whether occasioned by increase or diversion, and the cost of any damage, repair or restoration of the State highway right-of-way.
44. The Permittee's utility must maintain a minimum clearance of 2' under each culvert crossing.
45. The Permittee is responsible to replace any culvert damaged by the Permittee's operations.

EXCAVATIONS

46. All Caltrans electrical facilities must be located prior to any excavations or demolitions.
47. Your attention is directed to Section 5-1.36, "Property and Facility Preservation," of Standard Specifications 2018 and Business and Professions Code, Section 8771. Permittee shall physically inspect the work site and locate ALL survey monuments before work commencement. Monuments that might be disturbed shall be referenced or reset in accordance with Business and Professions Code.
48. 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 Section 78-2, "Survey Monuments," of the Caltrans Standard Specifications and Standard Plan A74, Type D, or equal with prior approval of the District Surveys Engineer.
49. Copies of Corner Records filed or Record of Surveys recorded in compliance with the Business and Professions Code must be forwarded to the District Surveys Engineer.

ENVIRONMENTAL

50. The Caltrans Representative for the District 1 Environmental Branch is Cassie Nichols and can be reached at (707) 798-7557.
51. Permittee must conduct nesting bird and amphibian species surveys prior to performing work. Results of surveys must be presented to Department's Representative prior to scheduling work.

OTHER REQUIREMENTS

52. As-built Plans are required.
53. As-built plans must be tied to points that are compatible with the Caltrans datum for the area. If no datum exists, permanent reference points must be set that can be used to accurately locate the facilities.

ENCROACHMENT PERMIT GENERAL PROVISIONS

TR-0045 (REV. 12/2022)

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 or otherwise provided by law, 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, denial of encroachment permits, and revocation of the encroachment permit if already issued.
4. **PERMITTEE AUTHORIZATION FOR OTHERS TO PERFORM WORK:** This encroachment permit allows only the Permittee and/or Permittee’s authorized contractor or 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. Permittee shall provide to the Department a list of Permittee’s authorized contractors/agents, in the form and at the time specified by the Department but if no time is specified then no later than the pre-construction meeting. Permittee shall keep the list current and shall provide updates to the Department immediately upon any change to the list of authorized contractors/agents, including but not limited the addition, removal, or substitution of an authorized contractor/agent, or a new address or contact information for an existing authorized contractor/agent. Permittee is responsible for the acts and/or omissions of any person or entity acting on behalf of the Permittee, even if such person or entity is not included on Permittee’s list of authorized contractors and/or agents.
5. **ACCEPTANCE OF PROVISIONS:** Permittee, and the Permittee’s authorized contractors and/or agents, understand and agree 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. The Permittee’s authorized contractors and/or agents, are also bound by the Permit Conditions. Non-compliance with the Permit Conditions by the Permittee’s authorized contractor and/or agent will be deemed non-compliance by the Permittee.
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

ENCROACHMENT PERMIT GENERAL PROVISIONS

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 and Permittee's authorized contractors/agents must keep the permit package and current list of authorized contractors/agents, or copies thereof, at the work site at all times and must show such documents upon request to any Department representative or law enforcement officer. If the permit package or current list of authorized contractors/agents, or copies thereof, are not kept and made available at the work site at all times, then all work must be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee must yield start of work to ongoing, prior authorized work adjacent to or within the limits of the Permittee's project site. When existing encroachments conflict with Permittee's work, the Permittee must bear all cost for rearrangements (e.g., relocation, alteration, removal, etc.).
12. **PERMITS, APPROVALS, AND CONCURRENCES FROM OTHER AGENCIES AND/OR ENTITIES:** This encroachment permit is invalidated if the Permittee has not obtained all permits, approvals, and concurrences necessary and required by law, including but not limited to those from the California Public Utilities Commission ("CPUC"), California Occupational Safety and Health Administration ("Cal-OSHA"), local and state and federal environmental agencies, the California Coastal Commission, and any other public agency and/or entity having jurisdiction. Permittee is responsible for providing notice of the encroachment to, and obtaining concurrence from, any person or entity (whether public or private) affected by the scope of work described in the encroachment permit, regardless of whether such notice or concurrence is required by law; the Department is not responsible to provide such notice or obtain such concurrence. Permittee warrants all such permits, approvals, and concurrences 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 concurrences, 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

ENCROACHMENT PERMIT GENERAL PROVISIONS

- 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:
- a) Upon completion of the work provided herein, the Permittee must submit a paper set of As-Built plans to the Department's representative.
 - b) All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
 - c) The plans are to be prominently stamped or otherwise noted "AS-BUILT" by the Permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a Department stamp, or by signature of the Department's representative, must be used for producing the As-Built plans.
 - d) If construction plans include signing or striping, the dates of signing or striping removal, relocation, or installation must be shown on the As-Built plans when required as a condition of the encroachment permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage must show the removal, relocation, and installation dates of the appropriate staged striping and signing.
 - e) As-Built plans must contain the Encroachment Permit Number, County, Route, and Post Mile on each sheet.
 - f) The As-Built Plans must not include a disclaimer statement of any kind that differs from the obligations and protections provided by sections 6735 through 6735.6 of the California Business and Professions Code. Such statements constitute non-compliance with Encroachment Permit requirements and may result in the Department retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future encroachment permits or a provision requiring a public agency to supply additional bonding.
23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the State highway right-of-way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt encroachment permit is issued to the Permittee for the purpose of providing a notice and record of work. The Permittee's prior rights must be preserved without the intention of creating new or different rights or obligations.
- "Notice and Record Purposes Only" must be stamped across the face of the encroachment permit.
24. **BONDING:** The Permittee must file bond(s), in advance, in the amount(s) set by the Department and using forms acceptable to the Department. The bonds must name the Department as obligee. Failure to maintain bond(s) in full force and effect will result in the Department stopping all work under this encroachment permit and possibly revoking other encroachment permit(s). Bonds are not required of public corporations or privately-owned utilities unless Permittee failed to comply with the provisions and/or conditions of a prior encroachment permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedure section 337.15. A local public agency Permittee also must comply with the following requirements:
- a) In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local public agency Permittee agrees to require the construction contractor to furnish both a payment and performance bond in the local public agency's name with both bonds complying with the requirements set forth in Section 3-1.05 Contract Bonds of the Department's Standard Specifications before performing any project construction work.
 - b) The local public agency Permittee must defend, indemnify, and hold harmless the 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

ENCROACHMENT PERMIT GENERAL PROVISIONS

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 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 by anyone acting for or 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 Department and the Permittee 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

ENCROACHMENT PERMIT GENERAL PROVISIONS

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:**
- 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, and is responsible to ensure the encroachment does not negatively impact State highway safety, maintenance, operations, construction, State facilities, activities related to construction/reconstruction, or other encroachments. The Permittee's obligations in the preceding sentence take effect immediately upon issuance of this encroachment permit and continue until the encroachment is entirely and permanently removed. Additional encroachment permits or approval documents may be required authorizing work related to inspection, repair, and/or maintenance activities. Contact the Department for information.
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

ENCROACHMENT PERMIT GENERAL PROVISIONS

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 by or on behalf of the Department to correct or remedy issues created by the Permittee or by others acting on behalf of the Permittee, including but not limited to hazards or damaged facilities, or to clear refuse, debris, etc. not attended to by the Permittee or by others acting on behalf of 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-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:
- 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
 - 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
 - In addition, for projects disturbing one acre or more of soil in the Lahontan Region with Order No. R6T-2016-0010, NPDES No CAG616002.
 - 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.

ENCROACHMENT PERMIT SPECIAL PROVISIONS**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
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

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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 13-4.02 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 with 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

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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.

UTILITY UNDERGROUND PROVISIONS (UG)

TR - 0163 (Rev. 7/2022)

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 one (1) inch 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.

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- 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 H20.
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

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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 only when approved by and 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)

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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

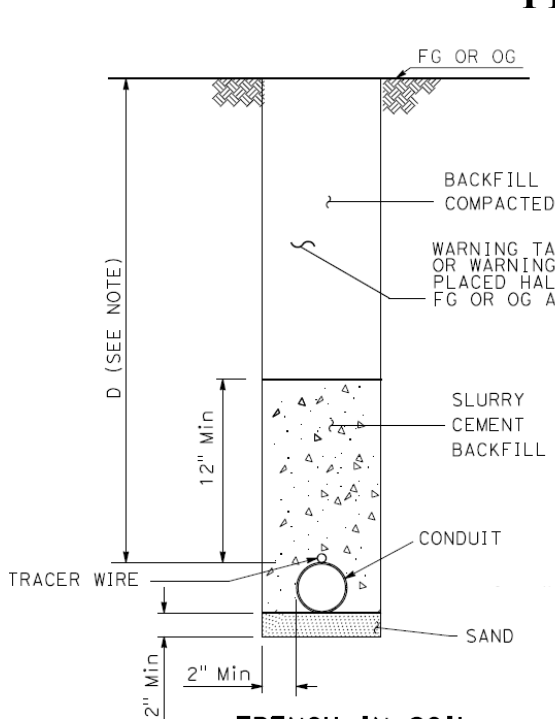
pavement must equal existing pavement thickness. The concrete must be satisfactorily cured and protected from disturbance for not less than forty-eight (48) hours. Where necessary to open the area to traffic, no more than two (2%) percent by weight of calcium chloride may be added to the mix and the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

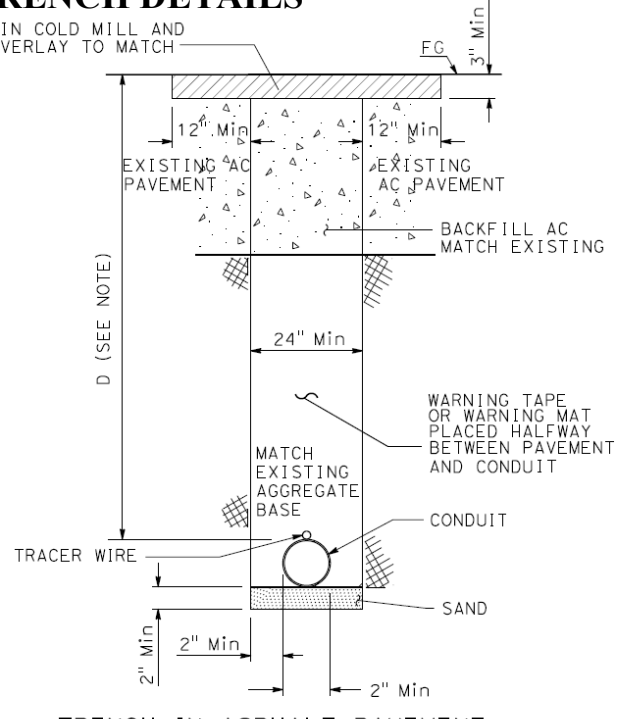
UG 23. SPOILS: No earth or construction materials are to be dragged or scraped across the highway pavement, and no excavated earth placed or allowed to remain at a location where it may be tracked onto the highway traveled way, or any public or private approach by the permittee's construction equipment, 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)

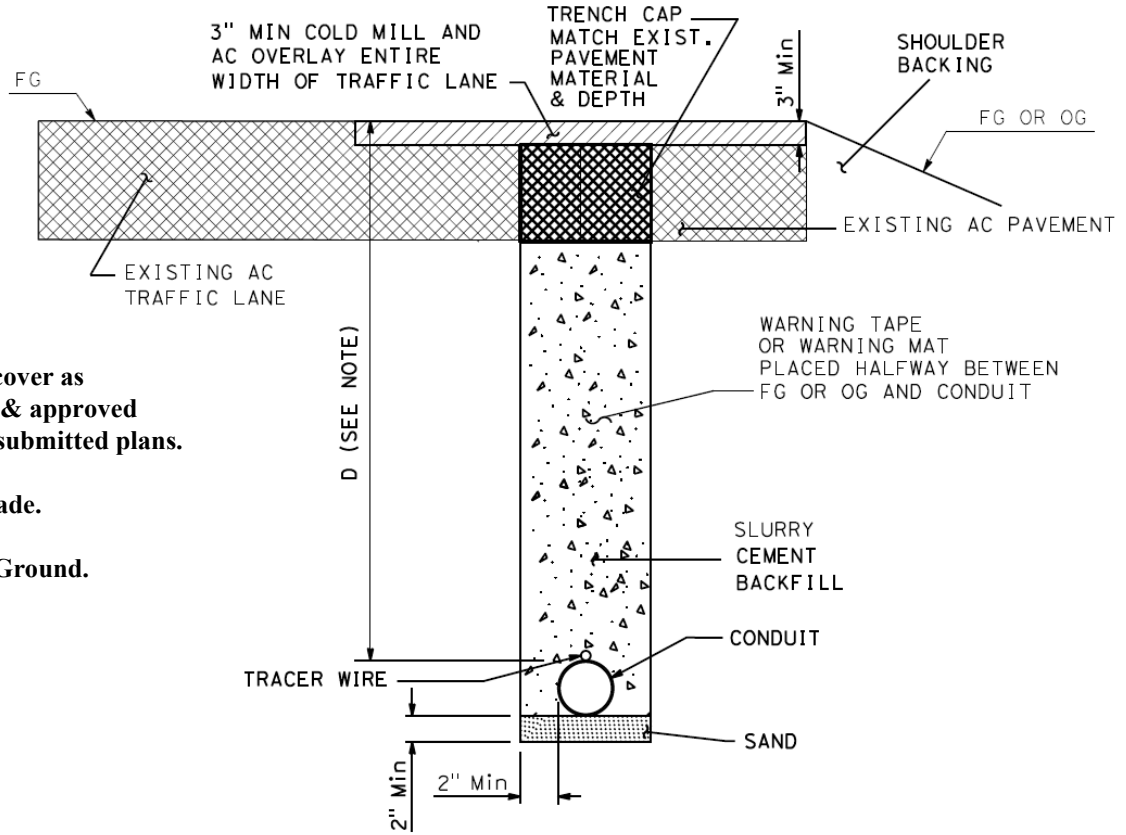
TYPICAL TRENCH DETAILS



TRENCH IN SOIL



TRENCH IN ASPHALT PAVEMENT



LONGGITUDINAL TRENCH IN ASPHALT PAVEMENT

Notes: D - Depth of cover as identified & approved based on submitted plans.

FG - Finish Grade.

OG - Original Ground.

- All work must be authorized by the encroachment permit, and/or as directed by the State's representative. (Notes continue on page 2)

- Must include tracer wire or other continuous measure to provide positive subsurface detection for the life of the facility (Project Development Procedures Manual (PDPM) Chapter 17).
- Open trench installation of underground utility facilities must include warning tape or warning mats complying with the American Public Works Association (APWA) Uniform Color Code for identifying the type of underground utility. Where mechanical protection is installed, warning tape must be placed above the mechanical protection and below the roadbed subgrade as shown on the details. (PDPM Chapter 17).
- Clearance between the trench wall and conduit of less than 6 inches in width shall be a minimum of 2 inches. Clearance between the trench wall and conduit of greater than 6 inches in width shall be a minimum of 6 inches.
- When the trench width is less than 24 inches the backfill for subgrade must consist of slurry cement. Controlled Low-Strength Material (CLSM) can be substituted at the discretion of the State's representative.
- When trench width is greater than 24 inches compacted aggregate base may be used for backfilling.
- Structure backfill and compaction must conform to Section 19-3.02C and 3.03 of the Standard Specifications.
- For trench located under unimproved surface, structure backfill can use the original soil. Soil must be compacted by mechanical means. Ponding, jetting or flooding are not allowed. Slurry cement backfill is not optional unless approved by the Caltrans District.
- Slurry cement backfill must conform to Section 19-3.02E of the Standard Specifications.
- Aggregate base and its compaction shall conform to Section 26 of the Standard Specifications.
- CLSM if used must conform to Section 19-3.02G of the Standard Specifications. When CLSM is utilized the mix design and test results must be submitted to the State's representative. See Appendix H of the Encroachment Permits Manual for additional information.
- Cold planed surface and overlay shall be to the nearest lane line for the entire length of the trench/disturbed areas, and/or as directed by the State's representative.
- When Hot mix asphalt (HMA) is used to backfill Asphalt Concrete (AC) Section of the road, HMA must conform to Section 39 of the Standard Specifications.
- A paving notch ("T" Cut) shall be cold planed in exist asphalt concrete to a minimum width of 12 inches beyond each side of the trench and to a depth of 3 inches for the final layer of HMA.
- AC used to replace pavement section shall match existing pavement depth, unless directed otherwise by the State's representative.
- A tack coat of asphaltic emulsion conforming to Section 39-2.01C (3) (f) shall be applied.
- When the trench is within 4 feet of curb and gutter, additional cold planning may be required at the discretion of the State's representative. Potholes or trenches separated / adjoined by 10 feet or less to be overlaid together at the discretion of the State's representative.
- Pavement markings and/or striping removed or damaged during construction must be replaced in kind as directed by the State's representative.
- Other trench related details are shown in Chapter 6 of the Encroachment Permits Manual as well as the Trenching and Shoring Manual. Both publications can be found on the State of California, Department of Transportation's website.
- If trench is located in the roadway where Portland Cement Concrete (PCC) exist, remove the concrete to a depth of at least 3 feet below finished grade as per standard Specification 15-1.03B. Replace entire concrete slab from joint to joint as directed by State's representative.
- Electrical systems installations that are part of State Highway System must be installed in compliance with Caltrans Standard Specifications, Section 87.

HAZARDOUS MATERIALS AND HAZARDOUS WASTE MANAGEMENT SPECIAL PROVISIONSTR-0408 (New 09/2017)

By acceptance of this encroachment permit, Permittee hereby agrees that:

1. All construction debris/materials/water/excess soil must become the property of the Permittee, and must be transported and disposed of, outside of Caltrans' right-of-way, in accordance with all applicable environmental laws and regulations. The Permittee must be identified as the generator for all construction debris/materials/water/excess soil and must be responsible for proper identification (including sampling and analysis) and management of all construction and contaminated debris/materials/water/excess soil that are removed, and/or excavated, from the work site. If hazardous waste is generated, the Permittee must obtain an Environmental Protection Agency (EPA) Identification Number issued in their name. State Permit Inspector does not sign any manifests or shipping papers. The Permittee must be named as the generator on all Uniform Hazardous Waste Manifests and shipping papers. Caltrans must not be identified or written anywhere on the manifests or shipping papers. Prior to waste disposal, the Permittee should submit the waste generator form(s) to State Permit Inspector for verification. The Permittee must submit to the State Permit Inspector, a copy of all manifests and/or shipping papers generated for materials removed, transported and/or excavated from the state right-of-way.
2. If contaminated material is encountered, Permittee is to stop work and contact the State Permit Inspector immediately. The Permittee must submit a Sampling and Analysis Plan (SAP), and a Health and Safety Plan (HaSP) prepared by a Certified Industrial Hygienist (CIH) and in conformance with California Code of Regulations title 8, section 5192, "Hazardous Waste Operations and Emergency Response" for sampling activity through a separate permit application. Upon the permit review, additional environmental documents may be required prior to resumption of construction activity.
3. Permittee is responsible for any violation, penalty, enforcement action, corrective action, remedial action, and any other type of consequences resulting from cross contamination of groundwater (including perched groundwater), improper handling/managing of hazardous materials and/or placement of contaminated materials inside Caltrans right-of-way.
4. It is the Permittee's responsibility to comply with the Department of Toxic Substances Control (DTSC) ADL requirements for roadway soil management. Reuse of soils containing greater than 80 mg/kg total lead is not allowed without written approval of the DTSC and Caltrans. The Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils between Caltrans and the DTSC does not constitute written approval for the Permittee to reuse soils containing greater than 80 mg/kg total lead.
5. The Permittee must implement the emergency notification requirements established in the California Office of Emergency Management Hazardous Materials, Spill / Release Notification Guidance (<http://www.caloes.ca.gov/>).
6. Any imported material used for backfill must be free of contamination, and a certificate of the material as "clean" with the source area of the material must be provided to Permit Inspector upon request. Importing soils containing greater than 80 mg/kg total lead for use in state right-of-way is not allowed.
7. Stockpiles of material containing aerially deposited lead shall not be placed where affected by surface run-on or run-off. Stockpiles shall be covered with plastic sheeting 13 mils minimum thickness or with one foot of nonhazardous material. Stockpiles shall not be placed in environmentally sensitive areas. Stockpiled material shall not enter storm drains, inlets, or waters of the State.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT STEEL PLATE BRIDGING UTILITY PROVISIONS

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.

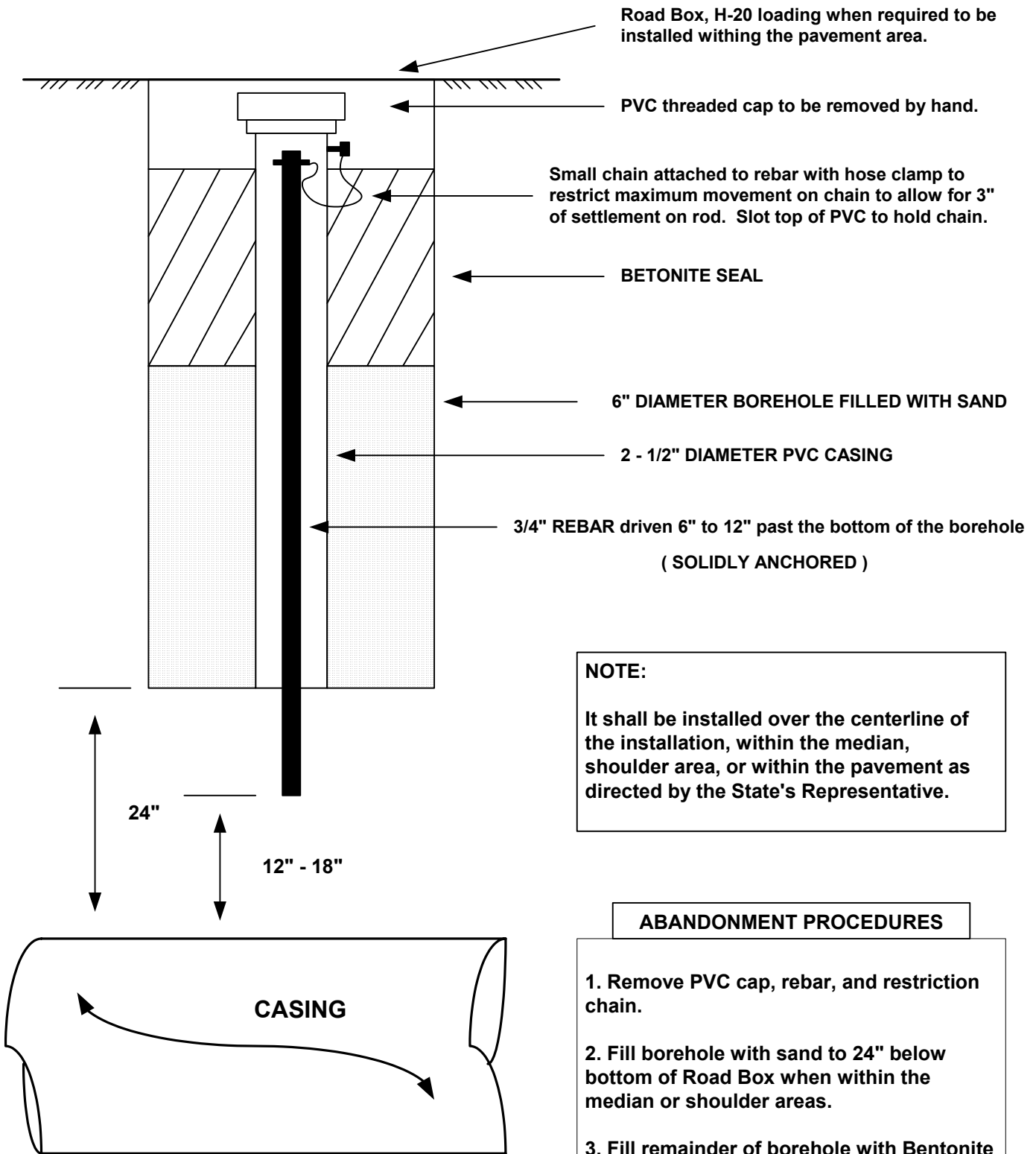
Caltrans Inspectors should not enforce plate removal unless it is permanently deformed or delivered without the required surfacing. However, an inspector should document in a diary all contacts with the contractor.

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.

ENCROACHMENT PERMIT SETTLEMENT ROD DETAIL

TR-0152 (REV. 09/2006)






NOTE:
 It shall be installed over the centerline of the installation, within the median, shoulder area, or within the pavement as directed by the State's Representative.

ABANDONMENT PROCEDURES

1. Remove PVC cap, rebar, and restriction chain.
2. Fill borehole with sand to 24" below bottom of Road Box when withing the median or shoulder areas.
3. Fill remainder of borehole with Bentonite seal mixture.
4. Remove Road Box and back fill with an approved backfill.

LEGEND:

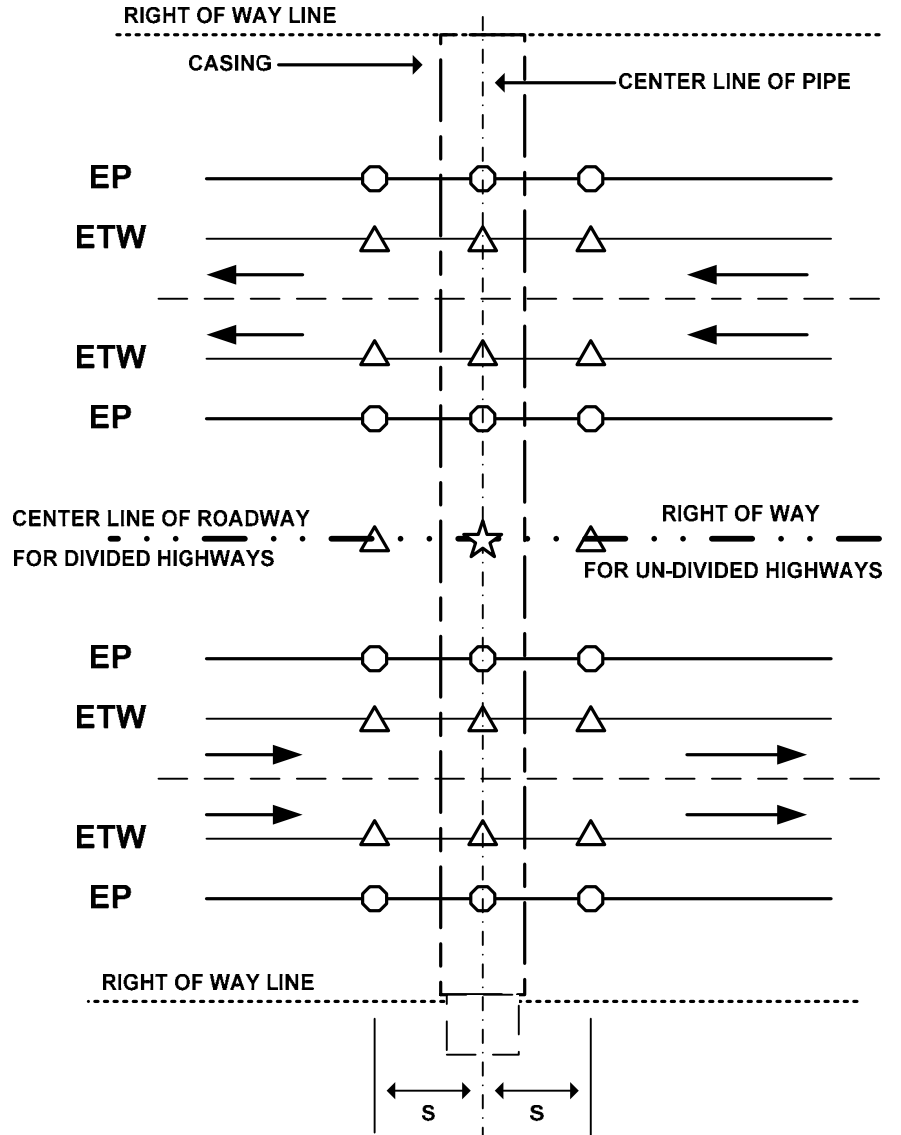
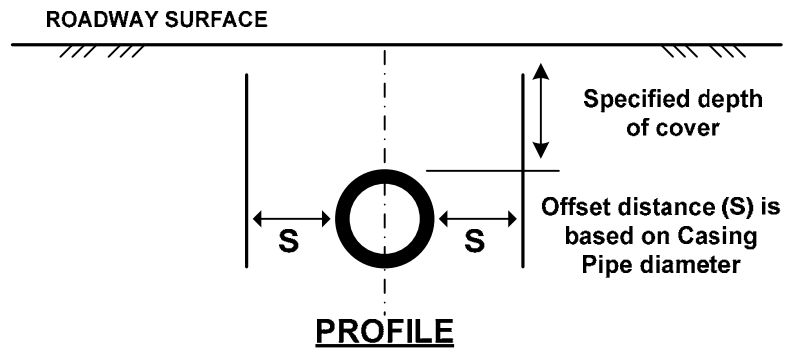
-  Octagon Data Points required when the diameter is < 8'.
-  Octagon & Triangle Data Points required when the diameter is > 8'.
-  Settlement Rod may be required when the diameter is > 5'. (Settlement Rod Detail is located in Appendix E of the Encroachment Permits Manual)

- EP** Edge of Pavement
- ETW** Edge of Travel Way (Fog line, Yellow Stripe, etc.)
- S** Offset Distance away from the pipe alignment, as follows:
 - 3' for casing pipe diameters < 30"
 - 5' for casing pipe diameters 30" - 72"
 - 10' for casing pipe diameters 72" - 108"
 - 15' for casing pipe diameters > 108"

NOTES:

Survey data is to be collected at the specific points along the casing alignment at the following times:

1. Prior to Start of Work.
2. Every two (2) hours continuously throughout the project.
3. Upon completion of the project.
4. Every two (2) months, during a six month period after the date of completion, and or As Required by the Department.



12-3.31 PORTABLE FLASHING BEACONS**12-3.31A General**

Section 12-3.31 includes specifications for placing, maintaining, and removing portable flashing beacons.

12-3.31B Materials

Each portable flashing beacon must have:

1. Standard and base
2. Signal section
3. Flasher unit
4. Battery power source

The components must be assembled to form a complete, self-contained, portable flashing beacon that can be delivered to the job site and placed into immediate operation.

The portable flashing beacon must be weatherproof and operate a minimum of 150 hours between battery recharging and routine maintenance.

The signal section must be yellow and comply with section 86-1.02R(4)(b), except it must be rated for 25 W at 12 V.

The flash rate for the flashing unit must comply with chapter 4L, "Flashing Beacons," of the *California MUTCD*.

The standard must be adjustable to allow variable mounting of the signal section from 6 to 10 feet, from the bottom of the base to the center of the lens, and be capable of being secured at the desired height. The standard must be securely attached to the base and have a length of multiconductor, neoprene-jacketed cable long enough for the full vertical height.

The base must be (1) large enough to accommodate at least two 12 V automotive-type storage batteries and (2) a shape and weight such that the beacon will not roll if struck by a vehicle or pushed over.

12-3.31C Construction

Remove portable flashing beacons from the traveled way at the end of each night's work. You may store the flashing beacon at selected central locations within the highway where designated by the Engineer.

Moving portable flashing beacons from location to location if ordered after initial placement is change order work.

12-3.31D Payment

The payment quantity for portable flashing beacons (ea) is the number of portable flashing beacon locations with each location counting as 1 measurement unit.

12-3.32 PORTABLE CHANGEABLE MESSAGE SIGNS**12-3.32A General****12-3.32A(1) Summary**

Section 12-3.32A includes specifications for placing, maintaining, and removing portable changeable message signs.

12-3.32A(2) Definitions

Reserved

12-3.32A(3) Submittals

If requested, submit a certificate of compliance for each PCMS.

Submit your cell phone number before starting the first activity that requires a PCMS.

12-3.32A(4) Quality Assurance

Reserved

12-3.32B Materials

Each PCMS consists of a sign panel, a controller unit, a power supply, and a structural support system.

The PCMS must:

1. Be assembled to form a complete self-contained unit that can be delivered to the job site and placed into immediate operation.
2. Operate at an ambient air temperature from -4 to 158 degrees F.
3. Not be affected by mobile radio transmissions other than those required to control the PCMS.
4. Be capable of displaying a 3-line message with at least 7 characters per line.
5. Provide a complete alphanumeric selection.
6. Be internally or externally illuminated during the hours of darkness, when non-illuminated pixels are used.
7. Have a dimming control that automatically adjusts the character light intensity to provide optimum character visibility and legibility under all ambient lighting conditions. The dimming control must have a minimum 3 manual dimming modes of different intensities.

A message with 18-inch high characters or 12-inch high characters must be visible from a distance of 1,500 feet and legible from a distance of at least 750 feet at noon on a cloudless day and during the night by persons with 20/20 vision or vision corrected to 20/20.

A message with 10-inch high characters must be legible from a distance of at least 650 feet at noon on a cloudless day and during the night by persons with 20/20 vision or vision corrected to 20/20.

The controller must:

1. Be an all solid-state unit.
2. Include at least 5 preprogrammed messages.
3. Have a user adjustable display rate.
4. Have a user adjustable flashing-off time.
5. Include a screen to review the messages before being displayed on the sign.
6. Include a keyboard message entry system. The keyboard must be equipped with a security lockout feature.
7. Have nonvolatile memory to store an infinite number of user created messages.
8. Be installed at a location that allows the user to perform all the functions from a single position.

12-3.32C Construction

Use a PCMS with characters:

1. At least 18 inches in height where the useable shoulder area is 15 feet wide or more
2. At least 12 inches in height where the useable shoulder area is less than 15 feet wide
3. At least 10 inches in height if the PCMS is:
 - 3.1. Mounted on a service patrol truck or incident response vehicle
 - 3.2. Used for traffic control where the posted speed limit is less than 40 mph

Place a PCMS as far from the traveled way as practicable where it is legible to approaching traffic without encroaching on the traveled way. Where the vertical roadway curvature restricts the sight distance of approaching traffic, place the sign on or before the crest of the curvature where it is most visible to the approaching traffic. Where the horizontal roadway curvature restricts the sight distance of approaching traffic, place the sign at or before the curve where it is most visible to approaching traffic. Where practicable, place the sign behind guardrail or temporary barrier system.

If multiple signs are needed, place each sign on the same side of the road at least 1,000 feet apart on freeways and expressways and at least 500 feet apart on other types of highways.

Operate the PCMS under the manufacturer's instructions. Activate the security lockout feature at all times.

When in operation, place the bottom of a PCMS at least 7 feet above the roadway in areas where pedestrians are anticipated and 5 feet above the roadway elsewhere. Place the top of the PCMS no more than 14.5 feet above the roadway.

If more than one PCMS is simultaneously visible to traffic, only one sign may display a sequential message at any time. Do not use dynamic message displays, such as animation, rapid flashing, dissolving, exploding, scrolling, horizontal movement, or vertical movement of messages. The message must be centered within each line of the display.

You may use an additional PCMS if more than 2 phases are needed to display a message.

Display only messages shown or ordered.

Repeat the entire message continuously in not more than 2 phases of at least 3 seconds per phase. The sum of the display times for both of the phases must be a maximum of 8 seconds. If more than 2 phases are needed to display a message, use an additional PCMS.

You must be available by cell phone during activities that require a sign. Be prepared to immediately change the displayed message if ordered. You may operate the sign with a 24-hour timer control or remote control if authorized.

Keep the PCMS clean to provide maximum visibility.

After the initial placement, move a sign from location to location as ordered.

12-3.32D Payment

Not Used

12-3.33 PORTABLE SIGNAL SYSTEMS**12-3.33A General****12-3.33A(1) Summary**

Section 12-3.33 includes specifications for installing, maintaining, and removing portable signal systems.

A portable signal system includes:

1. Two or more signal units
2. Portable lighting
3. Portable flashing beacons

The components of a portable signal system are shown.

12-3.33A(2) Definitions

Reserved

12-3.33A(3) Submittals

Submit a certificate of compliance for each portable signal system.

Submit a 24-hour contact phone number before starting the activity that requires the portable signal system.

12-3.33A(4) Quality Assurance

Assign an on-site portable signal system coordinator. The coordinator must be available to service, maintain, and relocate system components as necessary. The coordinator must be accessible 24 hours a day while the system is in operation.

Replace or repair damaged or malfunctioning portable signal system units within 12 hours of notification of a system failure.

12-3.33B Materials

The portable signal system must:

1. Comply with Part 4 of the *California MUTCD*
2. Be a complete system that can be delivered to the job site and placed into immediate operation
3. Withstand a 90-mph wind speed under AASHTO (2001) Standard Specification for Highway Signs, Luminaries and Traffic Signals
4. Have a minimum one-mile communication range between signal units, not line of sight



DISTRICT 1 ENCROACHMENT PERMITS LANE CLOSURE REQUEST FORM

- Every Monday by noon, submit a schedule of planned closures for the next week period. The next week period is defined as Sunday noon through the following Sunday noon.
- Fax this form to **(707) 463-4736** or email: D1Permits@dot.ca.gov

Requestor Name: _____ Field Contact (if different): _____

Company: _____ Company: _____

Contact #: _____ Contact #: _____

Encroachment Permit # _____

Start Date of Planned Work: _____ End Date of Planned Work: _____

Days(s): Sun PM Mon Tues Weds Thurs Fri Sat Sun AM

County	Route	Post Mile or Cross road		Time	
		Start	End	Start	End

Direction (check all that apply): NB SB EB WB

Types of Closure (check all that apply):

Lane Closure One Way Controlled Full Closure Moving Closure

CHP Break Ramp Closure Shoulder Closure

Estimated Delay: _____ Minutes Describe Planned Work: _____

Additional details: _____

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT APPLICANT: CONTRACTOR(S) AUTHORIZATION FORM
DOT TR-0429 (NEW 12/2022)

The Permittee warrants and represents the Permittee has hired the following prime contractor(s) to perform the approved encroachment activities under Encroachment Permit # _____ on the Permittee's behalf as agents in accordance with Encroachment Permit General Provision #4 or Adopt-A-Highway Special Provision # 3, whichever is part of the Encroachment Permit. The Permittee warrants and represents the Permittee has provided a copy of the Encroachment Permit to the prime contractor(s) listed below, and further warrants and represents that the activities related to the Encroachment Permit, whether performed by the Permittee or by the prime contractor(s) below or by any person or entity acting for or on behalf of the Permittee, will be performed in compliance with all terms, conditions, specifications, standards, provisions, and other requirements of the subject Encroachment Permit. The person signing below warrants and represents such person has authority on behalf of the Permittee to make the warranties and representations contained herein, and to agree to and so bind the Permittee to this page.

List of authorized prime contractors for the encroachment permit:

Contractor Name	Scope of work (Traffic Control/civil work etc.)	Contact Person	Contact Person's Information (Phone # and E-mail)

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Name of Permittee

Name and Title of Person Signing for Permittee (Print)

Signature

Date

ENCROACHMENT PERMIT APPLICANT: CONTRACTOR(S) AUTHORIZATION FORM

DOT TR-0429 (NEW 12/2022)

By signing below, each prime contractor acknowledges that such prime contractor has received a copy of Encroachment Permit # _____ and agrees such prime contractor, and such prime contractor's employees, managers, officers, directors, agents, subcontractors, and suppliers, will comply with, and will perform all activities in accordance with, all terms, conditions, specifications, standards, provisions, and other requirements of the Encroachment Permit, including but not limited to notifying the permit inspector as required in the Encroachment Permit and reporting the lane closure notifications per the Encroachment Permit General Provisions (TR-0045). Each person signing on behalf of each prime contractor warrants and represents such person has the authority to make the acknowledgements, warranties, and representations contained herein on behalf of the named prime contractor, and has the authority to agree to and so bind the named prime contractor to this page.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Name of Prime Contractor	Name and Title of Person Signing for Contractor (Print)	Signature	Date
Name of Prime Contractor	Name and Title of Person Signing for Contractor (Print)	Signature	Date
Name of Prime Contractor	Name and Title of Person Signing for Contractor (Print)	Signature	Date
Name of Prime Contractor	Name and Title of Person Signing for Contractor (Print)	Signature	Date

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

FOR CALTRANS USE

TRACKING NO.
01-23-N-UJ-0297DIST/CO/RTE/PM
01-MEN-20-1.828

SIMPLEX STAMP

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 Mendocino	2. ROUTE Highway 20	3. POST MILE 1.828	DATE OF SIMPLEX STAMP 6/1/2023
4. ADDRESS OR STREET NAME 31200 State Highway 20	5. CITY Fort Bragg		
6. CROSS STREET (Distance and direction from project site) Dwyer Lane intersection is site for this permit			
7. WORK TO BE PERFORMED BY <input type="checkbox"/> APPLICANT <input checked="" type="checkbox"/> CONTRACTOR	8. IS THIS APPLICATION FOR THE CONTRACTOR'S (DOUBLE) PERMIT? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If "YES", provide the Parent Permit Number		
9. ESTIMATE START DATE September 11, 2023	10. ESTIMATED COMPLETION DATE September 25, 2023		
11. ESTIMATED NUMBER OF WORKING DAYS WITHIN STATE HIGHWAY RIGHT-OF-WAY 7-10			
12. ESTIMATED CONSTRUCTION COSTS WITHIN STATE HIGHWAY RIGHT-OF-WAY \$298,900			
13. HAS THE PROJECT BEEN REVIEWED BY ANOTHER CALTRANS BRANCH? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If "YES", which branch?			
14. FUNDING SOURCE(S) <input type="checkbox"/> FEDERAL <input checked="" 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)		16. APPLICANT'S REFERENCE / UTILITY WORK ORDER NUMBER Project WTR-00016	
17. DESCRIBE WORK TO BE DONE WITHIN STATE HIGHWAY RIGHT-OF-WAY (in 20 lines or less) Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, traffic control plans, etc. Jack and Bore for 10" raw water transmission main highway crossing.			

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, 10 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**ADA Notice**

This document is available in alternative accessible formats. For more information, please contact the Forms Management Unit at (279) 234-2284, TTY 711, in writing at Forms Management Unit, 1120 N Street, MS-89, Sacramento, CA 95814, or by email at Forms.Management.Unit@dot.ca.gov.

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

TRACKING NO.

19. EXCAVATION	MAX. DEPTH (in) 120	MIN. DEPTH (in) 60	AVG. WIDTH (in) 120 (pit)	LENGTH (ft) 25	SURFACE TYPE (e.g. Asphalt, concrete, soil, etc.) soil
20. PIPES	PRODUCT BEING TRANSPORTED untreated water	CARRIER PIPE DIAMETER 10 (in.)	MATERIAL HDPE	CASING PIPE DIAMETER 20 (in.)	MATERIAL steel
PROPOSED INSTALLATION METHOD (e.g. HDD, Bore & Jack, Open Cut, etc.) Bore and Jack					VOLTAGE / PSIG N/A

DOES THE PROPOSED PROJECT INVOLVE THE REPLACEMENT AND/OR ABANDONMENT OF AN EXISTING FACILITY?

 NO YES. If "YES", provide a description existing raw water line under highway will be abandoned in place

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 _____ 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) 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 _____**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?

B. Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the proposed project?

C. Is the proposed project located within five miles of the coast line?

D. Will the proposed project generate construction noise levels greater than 86 decibels (dBA) (e.g. Jack-hammering, pile driving)?

E. Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?

F. Are there any recreational trails or paths within the limits of the proposed project?

G. Will the proposed project impact any structures, buildings, rail lines or bridges within State Highway right-of-way?

H. Will the proposed project impact access to any businesses or residences?

I. Will the proposed project impact any existing public utilities or public services?

J. Will the proposed project impact any existing pedestrian facilities, such as sidewalks, crosswalks or overcrossings?

K. Will new lighting be constructed within or adjacent to State Highway right-of-way?

ADA Notice

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STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

TRACKING NO.

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: 0.0069
and estimate the area of disturbed soil outside State Highway right-of-way in acres: 0.57
-
26. Will the proposed project require dewatering? YES NO
If "YES", estimate Total gallons AND gallons/month _____ (Total gallons) AND _____ (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) Haul to appropriate/approved disposal site

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

TRACKING NO.

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)

City of Fort Bragg

ADDRESS OF APPLICANT (Include City, State and Zip Code)

416 N Franklin Street, Fort Bragg, CA 95437

E-MAIL ADDRESS

doconnor@fortbragg.com

PHONE NUMBER

707-961-2823 Ext. 134

FAX NUMBER

707-961-2802

29. NAME OF AUTHORIZED AGENT / ENGINEER

(A "Letter of Authorization" is required if different from #28)

N/A

IS A LETTER OF AUTHORIZATION ATTACHED?

 YES NO

ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City, State and Zip Code)

E-MAIL ADDRESS

PHONE NUMBER

FAX NUMBER

30. NAME OF BILLING CONTACT (Same as #28 Same as #29)

BILLING ADDRESS WHERE INVOICE(S) IS / ARE TO BE MAILED (Include City, State and Zip Code)

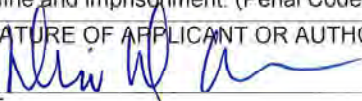
E-MAIL ADDRESS

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

Dianc O'Connor

33. TITLE

Assistant City Engineer

34. DATE

05/26/2023

ADA Notice

This document is available in alternative accessible formats. For more information, please contact the Forms Management Unit at (279) 234-2284, TTY 711, in writing at Forms Management Unit, 1120 N Street, MS-89, Sacramento, CA 95814, or by email at Forms.Management.Unit@dot.ca.gov.

INSTRUCTIONS

Complete ALL fields, write "N/A" if not applicable. Type or print clearly. All dimensions must be in U.S. Customary (English) units.

Print your application single sided and submit all of the required attachments (See Section VII A&B of the "Encroachment Permit Application Guide Booklet" found at: http://www.dot.ca.gov/trafficops/ep/docs/EP_Application_Guide_Booklet.pdf).

1. County (e.g. Fresno, San Francisco, Los Angeles, etc.)
2. State Highway Route Number (e.g. I-5, SR-99, etc.)
3. Highway Postmile: (location of work, see <https://postmile.dot.ca.gov/>)
If unable to determine, contact the appropriate District Encroachment Permits Office for assistance 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)
4. Address of project site (if the property has a physical address with a Number and Street/Road Name)
5. City (e.g. Sacramento, Redding, Irvine, etc.)
6. Distance and the direction from the nearest cross street to the project site (e.g. 500 ft. north of "C" Street).
7. Indicate whether the work will be performed by the applicant (your own forces) or by a contractor.
8. Indicate if you are applying for a "Contractor's (Double) Permit" and provide the "Parent Permit Number".
9. Estimated start date for the proposed work. (Allow a minimum of 60 calendar days from the submittal date of your application for processing)
10. Estimated completion date for the proposed work.
11. Estimated number of working days within State Highway right-of-way.
12. Estimated construction costs for all work to be done within State Highway right-of-way.
13. Has another Caltrans' branch seen or reviewed your project? Which branch? (e.g. Design, Project Management, Right-of-Way, Environmental, etc.)
14. Identify funding source(s) for the proposed work.
15. Caltrans' Project Code (ID) if this is a State project, capital project, or joint venture project.
16. Your company's reference number or utility work order number for this project.
17. Describe the proposed work to be done entirely. If applicable, attach six (6) complete sets of FOLDED plans (folded 8-1/2" X 11") and any applicable specifications, calculations, maps, etc.
18. (a) Identify portion(s) of State right-of-way where work will occur and (b) proposed traffic control plans to be used if any.
19. Maximum and minimum depth, average width, and length of the excavation area. Existing surface type (e.g. Asphalt, concrete, soil, etc.)
20. Product being transported (e.g. water, natural gas, etc.)
Carrier pipe, diameter (inches) and material (e.g. Steel, HDPE, etc.)
Casing pipe (if any), diameter and material Proposed installation method, Voltage of electrical current or pressure of liquid or gas.
21. Check "YES", if you are getting a permit or approval from another agency (City, County, etc.), and an environmental determination has been made. Then check the Categorically Exempt, Negative Declaration, Environmental Impact Report box or Other if one has been prepared. Attach a copy of the approved document and a copy of the Notice of Determination. Skip questions A-K.

If you checked "NO", check the box of the appropriate type of work to be done, or check "other" and fill in the type of work to be done. Also answer questions A-K.
22. A Historical Resource includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that has historical or archaeological significance, or significance in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California.
23. In this context a Scenic Resource includes, but is not limited to, trees that display outstanding features of form or age; unique, massive rock formations; historic buildings that are rare examples of their period, style, design, or which have special architectural features and details of importance.
24. Is there any work being done on the applicant's property?
25. Indicate if the proposed project will require the disturbance of soil. If "YES," estimate the area within AND outside of State Highway right-of-way in acres.
26. Indicate if the proposed project will require dewatering. If "YES," estimate volume in total gallons AND gallons per month. Also indicate the source: Stormwater or Non-Stormwater (see Caltrans Stormwater Management Plan for definitions of non-stormwater discharge at: <http://www.dot.ca.gov/hq/env/stormwater/>).
27. Indicate how any stormwater or ground water will be disposed of from or near the limits of the proposed project.
28. Name of the applicant or organization applying for the permit. List the mailing address, e-mail address, phone and fax numbers.
29. Name of the authorized agent or engineer acting on behalf of the applicant or organization. Attach a letter of authorization signed by the applicant or organization. List the mailing address, e-mail address, phone and fax numbers.
30. Name of the billing contact. List the mailing address where invoices are to be mailed, email address, phone and fax numbers.
31. Signature of the applicant or applicant's authorized agent.
32. Name of the applicant or applicant's authorized agent.
33. Title (owner, president, etc.) of the applicant or applicant's authorized agent.
34. Date of the signature.