

## **COUNTY OF SAN JOAQUIN**

#### DEPARTMENT OF PUBLIC WORKS

P.O. BOX 1810-1810 E. HAZELTON AVENUE STOCKTON, CALIFORNIA 95201 (209) 468-3000 FAX # (209) 468-9324

Permit No: PS-1602270 Date Issued: 08/02/2016 Start Date: 08/02/2016 Exp. Date: 10/01/2016 Project No: PWP730077

Ouad: ES

UE/CR/PM NO:8301

### **ENCROACHMENT PERMIT**

To: CALIFORNIA WATER SERVICE 1602 E LAFAYETTE ST STOCKTON, CA 95205

Encroachment Type:		
Bell Hole		
Location:		

E/S ORO 40' S/O FARM

In compliance with your request of <u>08/02/2016</u>, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at: (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. (Immediately following completion of construction permitted herein; Permittee shall fill out and mail notice of Completion (see attached post card) provided by Grantor.

Special Con	nments:			 	
Traffic Con	trol Per MUTCD			 	
FORMS:	SS/WW, R-29	TRENCH CUTTING	POLICY		

Est. Permit Fee: \$436.00

KRIS BALAJI, Director Department of Public Works

WHITE GOLDENROD -Permittee

YELLOW

-PWD Central File -Field Inspection

PINK

-Permit Section

Permit Section

1. This permit is issued under and subject to all laws and ordinances of agencies-governing the encroachment herein permitted. See the following references:

STREETS AND HIGHWAYS CODE

- 1. Division 1, Chapter 3
- 2. Division 2, Chapter 2, Section 942
- 3. Division 2, Chapter 4, Section 1126
- 4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

- 2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
- 3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progressof the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
- 4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
- 5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
- 6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
- 7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of
- 8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8) of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
- 9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
- 10. All backfull material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
- 11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
- 12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
- 13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Comer Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
- 14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

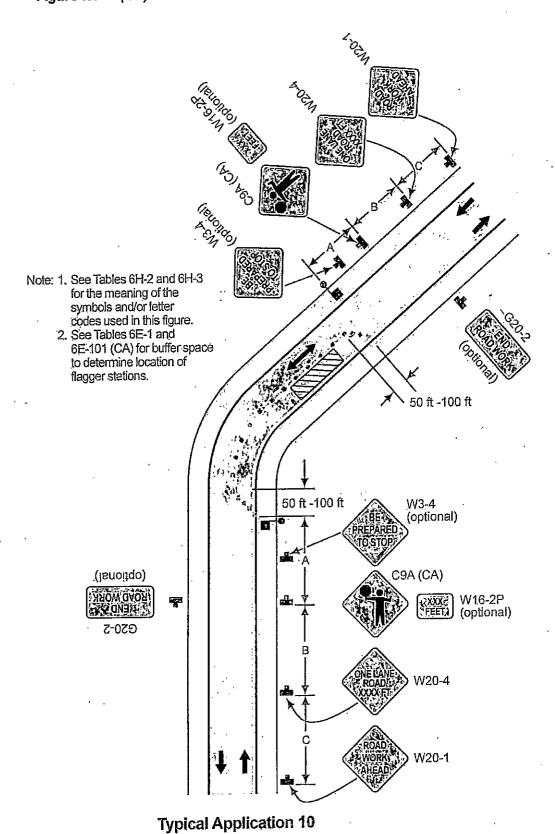
## APPLICATION FOR ENCROACHMENT PERMIT

Date 6 17 16  To: San Joaquin County Department of Public Works  CALIFORNIA WATER SERVICE (Applicant Name)  1602 E LAFAYETTE ST (Walling Address)  STOCKTON CA 95205  City, State, Zip Cods)  Sketch (Detailed plans may be submitted)  See attacked  Oro Road subject to pavement cuts Shall Receive  Pavement Restoration as described in Ane San  Joaquin County Department of Rubic Works Junch  Cut Powers, Shoulder areas shall be brought up  to Anadras of Oro  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East side of Oro  paproximately  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East side of Oro  provinced by To County  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East side of Oro  paproximately  The undersigned, certify that I am the owner of the respective property or am qualified to represent the owner and agree to do the- work described above in accordance with the rules and regulations of San Joaquin County and subject to Inspection and approval.  Stacked Aller - Operations Clark  Fignature of Applicant - Title  Patro  Fignature of Applicant - Title  Patro	PLEASE PRINT:	#8301
Department of Public Works  CALIFORNIA WATER SERDICE (Applicant Name)  ILOGE LAFAYETTE ST (Mailing Address)  STOCKTON CA 95005 (City, State, Zip Codes)  See Attached  On Road subject to pamement cuts shall receive Pamement Restoration as described in the San Joaquin County Department of Public Works French Cut Policies, Shoulder areas shall be brought up to Preduct and are as described by the County  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Eight of Way on the East side of Oro approximately 40 (Party Light of Way on Frame 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (	Date	OFFICE USE ONLY .
CALIFORNIA WATER SERVICE (Applicant Name)  (Applicant Name)  (Applicant Name)  (Mailing Address)  STOCKTON CA 95205  (City, State, Zip Code)  (Area Code - Telephone Number)  Sketch (Detailed plans may be submitted)  See attached  Ono Road subject to pavement cuts shall receive Pavement Restration as described in the San Joaquin County Department of Public Works Funch Cut Policy of Shall be brought up to The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the Sast side of Ors approximately 40 (Testignile South of Farm by performing the following work (description of work):  4410 Nors  Skanne Repair  The undersigned, certify that I am the owner of the respective property or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.	***************************************	APN CR#
The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the Rost side of Oro Paul or Scarle Region of Fam.  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the Rost Strand Oro Rosa Strand Strand Oro Paul or Strand Oro	CALIFORNIA WATER SERVICE (Applicant Name)	VALID 8-2-16 TO 10-1-16 DRIVEWAYS: STREET 0x0
(City, State, Zip Code)  (Area Code - Telephone Number)  Sketch (Detailed plans may be submitted)  Oro Road Subject to pavement cuts Shall Received  Pavement Restoration as described in Are San  Joaquin County Department of Public Works French  Cut Power Shall be mought up  to Preduct of a described by Are County  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right of Way on the East side of Oro approximately 40 (Testingle South of Farm 1763000  Thus work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)  Work will commence on or about 6 15/14 (11/16)	1602 E LAFAYETTE ST (Mailing Address)	TYPE BOULDOLD FORMS 55 WW/R29
Sketch (Detailed plans may be submitted)  See Attached  Oro Road subject to pavement cuts Shall receive  Pavement restoration as described in the San  Joaquin County Department of Public Works French  Cut Policy. Shoulder areas shall be mought up  to Pregund pade as described by the County  The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East side of Oro approximately 40 (Testynile South  of Farm by performing the following work (Testynile South  of Farm by performing the following work (Testynile South  of Taut: 3'x 4'  Work will commence on or about 6 15/14 (1) 16  Work will commence on or about 6 15/14 (1) 16  Atace Aller - Operations Clerk 6 17/16  Stare Aller - Operations Clerk 6 17/16  Stare Aller - Operations Clerk 6 17/16		NOTES
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Oro Road subject to pavement cuts Shall Receive Pavement Restoration as described in the San Joaquin County Department of Public Works French Cut Policy. Shoulder areas shall be brought up to The gurdsh and a described by the County to The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the Sast side of Oro approximately to Geotypile South of Farm by performing the following work (description of work):  446 N Oro Service Rupau 763000  I cut: 3'x 4'  Work will commence on or about 6 15/14 (1) for approximately 6 days.  I, the undersigned, certify that I am the owner of the respective property or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.  Stare Aller - Operations Clerk 6 17/16	Sketch (Detailed plans may be submitted)	<u> </u>
The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East side of Oro approximately 40 (Testimile South of Faum by performing the following work (Testimile South of Fau	See Atta	ched
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The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the South side of Oro approximately HO reet/mile South of Four by performing the following work (description of work):  4410 NOro  Sewice Renaw  1 Cut: 3 x 4'  Work will commence on or about 6 15/14 (9 1/16)  It is not approximately 60 days.  If the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.	Joaquin Country Departs	nent of Public Works French
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Work will commence on or about 6/15/14 for approximately 60 days.  I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.  State Ole - Operations Ole 6/17/16		Mila
I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.  Stace Ole - Operations Ole Gold Gold Gold Gold Gold Gold Gold Gold		· '/63000
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	Stocre aller - Operations ( Signature of Applicant - Title	Dell 6/17/16

446 N. Gro Ave. Service Repa Back of Walk Edge of Pavement K Edge of Pavement . Back of Walk 7010 æ 29



Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



## Table 6H-1(CA). Index to Typical Applications

Typical Application Description	Typical Application Number
Work affecting Pedestrian and Bicycle Facilities (see Section 6G.05)	
Shoulder Closure on Urban (Low Speed) Locations to Accommodate Bicyclists	TA-101(CA)
Lane Closure on Freeway, Expressway, Rural and Urban (High Speed) Locations to Accommodate Bicyclists	TA-102(CA)
Detour for Bike Lane on Roads with Closure of One Travel Direction	TA-103(CA)
Right Lane and Bike Lane Closure on Far Side of Intersection	TA-104(CA)
Work Within the Traveled Way of a Two-Lane Highway (see Section 6G.10)	
Lane Shift on Road with Low Traffic Volumes	TA-105(CA)

## Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
000	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer	$\oplus$	Surveyor
Ε.	Channellzing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour	77	Traffic or pedestrian signal
<b>□</b> □□	Direction of traffic	) Y	
	Flagger		Truck-mounted attenuator.
K.K.	High-level warning device	12 11 2	Type 3 barricade
.a.	(Flag tree)	PO	Warning light
,	Longitudinal channelizing device	77777	
	Luminaire		Work space
1111111	Pavement markings that should be removed for a long-term project	(0	Work vehicle

Table 6H-3. Recommended Advance Warning Sign Winters Spacing

•	Distance Between Signs**			
Road Type	A	В	С	
Urban (lathers of the 25 mph or less***	100 feet	100 feet	100 feet	
Urban - more than 25 mph to 40 mph***	250 feet	250 feet	250 feet	
Urban (কান্ত্রামহচ্চত্রেই)-more than 40 mph***	350 feet	359 feet	350 feet	
Rural	500 feet	. 500 feet	500 feet	
Έχρτεςς γάζί) Freeway	1,000 feet	. 1,500 feet	2,640 feet	

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Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet		
40 mph or less	$L = \frac{WS^2}{60}$		
45 mph or more	L= WS		

Where: L = taper length in feet

W = width of offset in feet

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

The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

<sup>\*\*\*</sup> Posted speed limit; off-peak 85th-percentile speed prior to work starting, or other anticipated operating speed in mon.

## Table 6H-4(CA). Taper Length Criteria for Temporary Traffic Control Zones (for 12 feet Offset Width)

	Minimum Taper Length**  for Width of Offset 12 feet (W)				
Speed*					
S (mph)	Merging L (feet)	Shifting L/2 (feet)	Shoulder L/3 (feet)	Down Stream (feet)***	
20	80	40	27	50 <sup>-</sup>	
25	125	63	42	50	
30 .	180	90	<sup>-</sup> 60	50	
35	245	123	- 82	50	
·40 .	320	160	107 ·	. 50	
45	540 .	270	180	50	
. 50	600	300	200	·50	
55	· 660	330	· 220	50	
60	720	360	240	50	
65	780	390	260	50	
70 . ·	840 -	420	280	50	
75	900	450	300	50	

<sup>\* -</sup> Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.

\*\* - For other offsets use the following merging taper length formula for L: For speeds of 40 mph or less, L=WS2/60
For speeds of 45 mph or more, L=WS

Where:

L = taper length in feet

W = width of offset in feet

S = posted speed limit, off-peak 85th-percentile speed prior to work

starting, or the anticipated operating speed in mph

<sup>\*\*\* -</sup> Maximum downstream taper length is 100 feet. See Section 6C.08.

Table 6F-101(CA). Maximum Spacing of Channelizing De	LIIAAA
- Paper of Tonory, manifical Suggified of Chameliand the	111 5

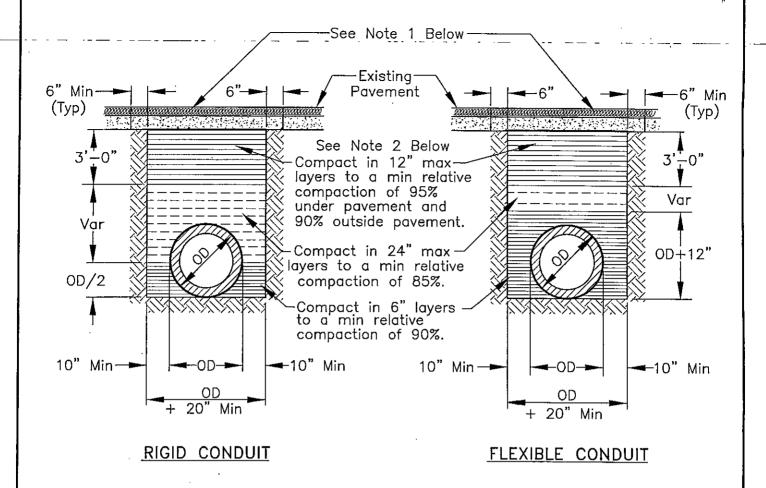
Speed	Maximum Channelizing Devices Spacing			
(mph)	Taper* (feet)	Tangent (feet)	Conflict** (feet)	
20	20	40	10	
25	25	50	12	
30	30	60	15	
35	35	70	17 .	
40	40	80	20	
45	. 45	90	22	
50	50	100	25	
55	50	100	25	
60 .	50	100	25	
65	50	100	25	
70	50	100	25	
75	50	100	25	

<sup>\*</sup> Maximum channelizing device spacing for all speeds on one-lane/two-way tapers is 20 feet.

Maximum channelizing device spacing for all speeds on downstream tapers is 20 feet.

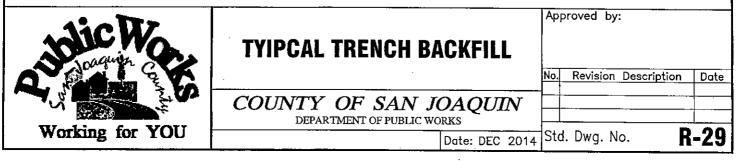
All other tapers are as shown.

<sup>\*\*</sup> Use on intermediate and short-term projects for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizing devices.



#### NOTES:

- 1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
- 2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
- 3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
- 4. All existing pavement shall be neatly cut to line prior to trench excavation.
- 5. Jetting or ponding will be permitted within the street right—of—way with a 3 year bond, when approved by the Director of Public Works.
- 6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
- 7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



## SPECIAL CONDITIONS FOR ENCROACHMENT PERMIT

- Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers. The contractor shall submit traffic control plans for all signing, detours, and any lane closure impacting County right-of-way. Traffic control plans shall be submitted two weeks prior to the closure date.
- Access to all properties shall be maintained at all times except when work is occurring at the
  access point. Minimal delays will be allowed to provide access within the work zone area.
  Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the
  contractor shall be replaced with in-kind or better materials.
- 3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
- 4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
- 5. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with inkind or better materials. Restored fences shall not encroach into County right-of-way.
- 6. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
- 7. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
- 8. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by California Water Service, including any facilities that are abandoned in place. California Water Service shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at California Water Service's expense. (Streets and Highways Code Section 1463)
- 9. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
- 10. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
- 11. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan

- suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
- 12. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
- 13. Tredway Road subject to pavement cuts shall receive a Slurry Seal as per San Joaquin County Department of Public Works Improvement Standards Section 2-5:0 Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.
- 14. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
- 15. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
- 16. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
- 17. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
- 18. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
- 19. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
- 20. The contractor shall not conduct construction operations in rain or heavy fog conditions.

#### 2-5.0 TRENCH CUT POLICY

#### 2-5.01 General Requirements

- A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.
- B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.
- C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.
- D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.
- E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.
- F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.
- G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.
- H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

#### 2-5.02 Collectors, Arterials and Expressways

- A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.
- B. Surfacing Age Three (3) Years and Over:
  - 1. Longitudinal Trench Cutting in Paved Shoulder

 Cross-cutting is allowed under the same conditions as Section 2-5.02(B)(3). If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

#### 2-5.04 Exceptions

Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

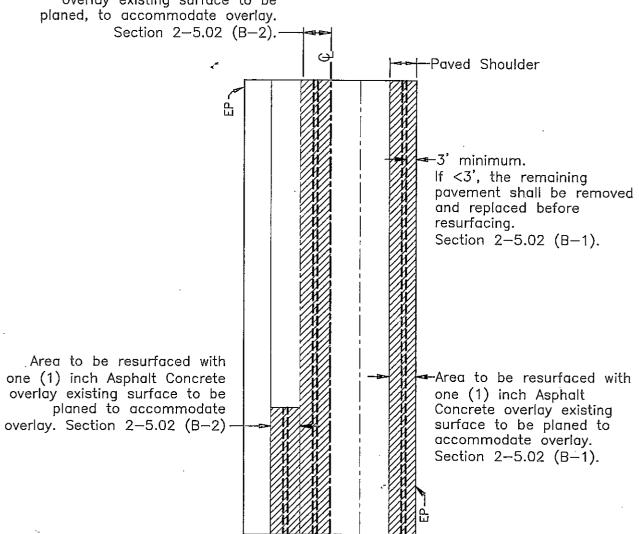
- A. An emergency that endangers life or property.
- B. For repair or modification to prevent interruption of essential utility service.
- C. For relocation work that is mandated by County, State or Federal law.
- For service for buildings where no other reasonable means of providing service exists.
- E. For potholing to verify utility depth or location.
- F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface Incision greater than industry bore pit standards.

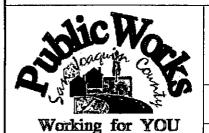
Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

#### NOTES:

- 1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
- 2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2—5.03 (B—1).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay.





# TRENCH CUTTING POLICY LONGITUDINAL CUTTING OF COUNTY ROADWAYS

COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

Muhul Selling

Revision Description Date

Std. Dwg. No.

Approved by:

R-37

#### GENERAL PROVISIONS

#### GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD-RIGHTS-OF-WAY

#### PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
  - Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
  - In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the
    following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.

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a. The County of San Joaquin Public Works Department

.d. The local fire district

b. The County of San Joaquin Sheriff's Office

The local school district

c. The local postal service

- f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

#### STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.
  - For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
  - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
    - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1:06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

#### REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfull shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one -foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
  - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch(1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
  - Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size
    aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsigntly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
  - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
  - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

#### SPECIAL PROVISIONS

Winter Weather Utility Work

- 1. <u>SUPERVISION</u>: The utility company (permittee) shall furnish full-time supervision of all work to insure compliance with the permit provision.
- 2. START OF WORK: No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
- 3. <u>CLEAN PAVEMENT:</u> Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
- 4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
- 5. <u>WEATHER-TIGHT CONDITIONS:</u> All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.