

## **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-1901415 Date Issued: 05/08/2019 Start Date: 05/10/2019 Exp. Date: 08/01/2019 Project No: PWP730077

Quad: SS

UE/CR/PM NO:8450

### ENCROACHMENT PERMIT

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

**Encroachment Type:** 

Bell Hole Remove & Replace Concrete Sidewalk

Location:

2001 E. THIRTEENTH ST.; N/S OF THIRTEENTH ST. 68' E/O "B" ST.

In compliance with your request of 05/08/2019, 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 Comments:** 

Traffic Control Per MUTCD\*\*\*\*\*See Attached "Special Conditions"\*\*\*\*No Pavement Cut\*\*\*\*

FORMS:

SS/WW, R-29

R-5, R-6

Est. Permit Fee: \$635.80

WHITE

-Permittee

GOLDENROD

-PWD Central File

YELLOW

-Field Inspection

PINK

-Permit Section

KRIS BALAJI, Director

Department of Public Works

Permit Section

### **ENCROACHMENT PERMIT GENERAL PROVISIONS**

13-1

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 progress of 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 way.
- 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 backfill 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.
- 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 Corner 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.

May 8, 2019

### SPECIAL CONDITIONS FOR CALWATER – THIRTEENTH ST. - #8450 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.
- 2. 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. School Buses shall be passed through the work zone with minimal delays.
- 6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
- 7. 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.
- 8. 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)
- 9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by Cal Water, including any facilities that are abandoned in place. Cal Water 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 Cal Water's expense. (Streets and Highways Code Section 1463)
- 10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
- 11. Trenches/bell holes shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.

### Special Conditions for ENCROACHMENT PERMIT

- 12. All trenches/bell holes 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.
- 13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches/bell holes 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.
- 14. 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.
- 15. 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, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
- 16. The contractor shall not conduct construction operations in rain or heavy fog conditions.

# APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:	× 8450
Date 4-29-2019	OFFICE USE ONLY
To: San Joaquin County Department of Public Works	JOB# 730077 REF# APN CR#
CALIFORNIA WATER SETUICE (Applicant Name)	EXP. DATE  VALID  STREET  AREA  STATE  GUAD  STREET  GUAD  STATE  GUAD  STATE  GUAD  STATE  STATE  STATE  GUAD  STATE  ST
1602 E. LAFAYETTE ST (Mailing Address)	TYPE PEU Hove, Removal & Replace of Concrete Sile FORMS Signey R.S. R.G. R. 29, Mark.
STOCKTON CA 95205 (City, State, Zip Code)	NOTES "Special Conditions"
(209) 4 to 4 -8311 (Area Code - Telephone Number)	
Sketch (Detailed plans may be submitted)	
See attached	
The undersigned hereby applies for permission to excavate, con the North side of E 13 th St of South B St	nstruct and/or otherwise encroach on County Highway Right-of-Way on approximately 68 (fee/mile EaS+ , by performing the following work (description of work):
New 1" Service Instalation L Cut - 5"x 7" (Concrete Sidewalk)	STK0600
Nork will commence on or about 4-19-20; \$	for approximately 60 days.
, the undersigned, certify that I am the owner of the respective p work described above in accordance with the rules and regulation	roperty, or am qualified to represent the owner and agree to do thens of San Joaquin County and subject to inspection and approval.
brid Gomesty - Operations Classicant - Title	erk 4-29-2019 Date





### **Department of Public Works**

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development Michael Selling, Deputy Director/Engineering Jim Stone, Deputy Director/Operations Kristi Rhea, Manager of Strategic Initiatives

### **Acknowledgement of Monument Preservation**

I, Kevin J. Genasci, a duly Licensed Land Surveyor or a Professional Engineer (Please print)
authorized to perform Land Surveying in the State of California, Registration No. CA PLS 8660,
hereby acknowledge and accept all responsibility for the monument preservation as required
per Section 8771(a-f) of the Business and Professions Code within the bounds of the
construction activity permitted by San Joaquin County Permit No. 2001 E 13th St . 15-1901415
I further acknowledge that I am hereby responsible for the Acknowledgement of Monument
Preservation prior to final acceptance of the construction activity.
Signature  L.S. 8660

PS-MONUMENT PRESERVATION

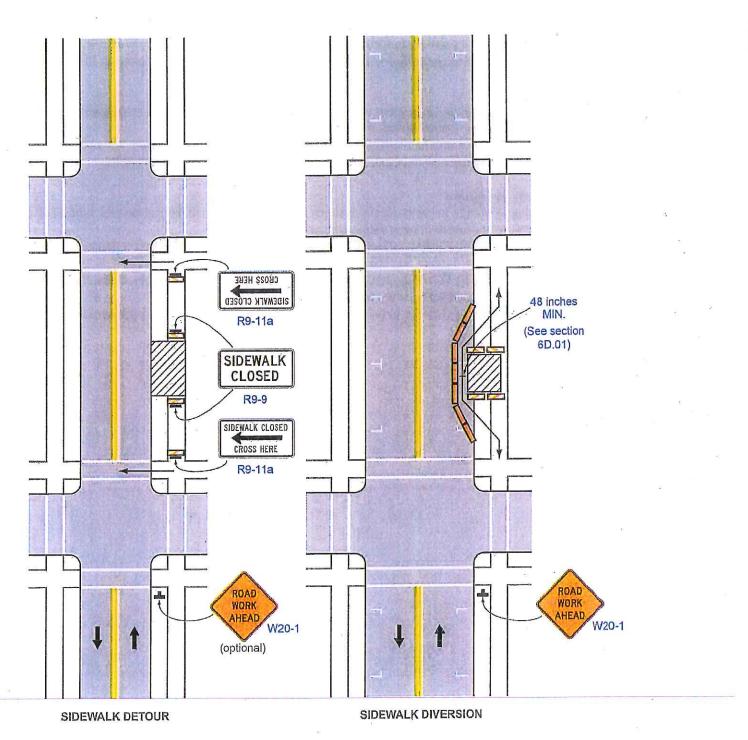
04/12/2019

Date

This road is subject to pavement cuts and shall receive pavement restoration as described in the San Joaquin County Department of Public Works Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.

2002 33 Sidewalk 9 S. dewalk 9 Center Line N 50 to Soft 89 1006

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



**Typical Application 28** 

Note: See Tables 6H-2 and 6াঠাগোঢ়ি meaning of the symbols and/or letter codes used in this figure. California MUTCD 2014 Edition (FHWA's MUTCD 2009 Edition, including Revisions 1 & 2, as amended for use in California)

# 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	TA-102(CA)
to Accommodate Bicyclists	
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 Wilhin 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
0 0,0	Arrow board support or trailer (shown facirig down)		Sign (shown facing left)
	Changeable message sign or support trailer	$\oplus$	Surveyor
3-2:	Channelizing device		Temporary barrier
	Crash cushion	<u> </u>	Tempocary barrier with warning light
	Direction of temporary traffic defour	V. Pr	Traffic or pedestrian signal
- <del> </del>	Direction of traffic		Truck-mounted attenuator.
EI S	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
1.11.11.11	Payement markings that should be removed for a long-term project		Work vehicle

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

*	Distance Between Signs**			
Road Type	A	B	C	
Ulban to reserve. 26 mph or less***.	: 100 řečt	100 feet	100 feet	
Urban - more than 25 mph to 40 mph***	250 feet	250 feet	250 feet	
Urbán (松) 有字字字字-more then 40 mph**	: 350 féét	-850 feet	350 feet	
Rural	500 feet	500 feet	500 feet	
Ékpítéssvájý Freeway	7.000 feet	'' - j',500 feet	2,640 fèet	

Table 6H-4. Formulas for Determining Taper Length

Speed (\$)	Taper Length (L) in feet
*40 inph or less	L= WS <sup>2</sup> 60
45 mph or more	L= Ws

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

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

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

		Min <b>i</b> mum Ta	per Length**	
Speed*	for Width of Offset 12 feet (W)			
S (mph)	Merging L. (feet)	Shifting L/2 (feet)	Shoulder L/3 (feet)	Down Stream (feet)***
20	80 .	40	27	50
25	125	63	42	50
30	180	90	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.

Where:

L = taper length in feet

W = width of offset in feet

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

starting, or the anticipated operating speed in mph

<sup>\*\* -</sup> For other offsets use the following merging taper length formula for L: For speeds of 40 mph or less, L=WS<sup>2</sup>/60 For speeds of 45 mph or more, L=WS

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

ravie or-tutica). Waximum Spacing of Channelizing Devices			
Speed	Maximum Channellzing Devices Spacing		
(mph)	Taper* (feet)	Tangent (feet)	Conflict** (feel)
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.

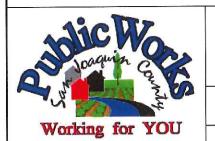
Maximum channelizing device spacing for all speeds on downstream tapers is 20 feet.

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.

# CONCRETE CURB, GUTTER AND SIDEWALK CONSTRUCTION NOTES

- 1. Curb, gutter and sidewalk construction shall conform to Section 73, Standard Specifications, California Department of Transportation (Caltrans), except as modified herein.
- 2. Reference is made to the local agencies Standard Specifications for additional requirements relating to the construction of concrete curb, gutter and sidewalk.
- 3. Subgrade for Curb, gutter and sidewalk and Driveways shall be compacted to a minimum relative compaction of 90% to a depth of 6". Where the subgrade "R" value is less than 30, place 4" minimum of aggregate subbase class IV under the concrete sections and compacted to a minimum of 95%.
- 4. All radii for rounding edges shall be 3/4" unless otherwise noted.
- 5. Portland cement concrete shall be Class 3, per Caltrans Section 90, Standard Specifications, California Department of Transportation (Caltrans), except as modified herein.
- 6. Expansion joints and weakened plane joint shall be placed as indicated elsewhere in the Construction Standards. Expansion joint spacing shall not exceed 80'.
- 7. Curb, gutter and sidewalk shall have a light broom finish. curb and gutter; parallel to the flow line, Sidewalks; perpendicular to the flowline.
- 8. Depress a 2" high letter "W" or "S", 1 1/4" deep into the top of the curb to identify service locations.
- 9. During construction of gutters, water shall be used to ensure proper drainage along the flowline.
- 10. Access curb ramps, sidewalks and improvements in the ADA path of travel shall be constructed in conformance with the Federal Americans with Disabilities Act, California Title 24, and these Standards.



# CONCRETE CURB, GUTTER AND SIDEWALK CONSTRUCTION STANDARDS

COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

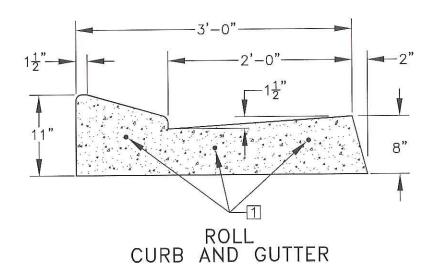
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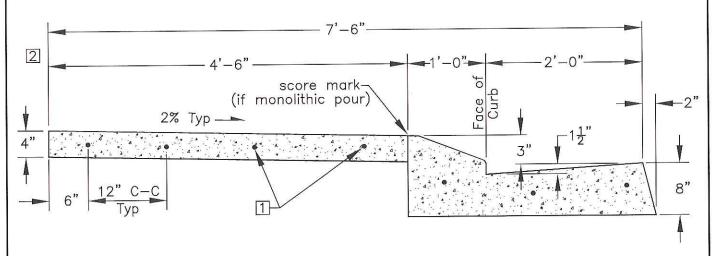
Approved by:

Thomas M. Starc

No. Revision Description Date

Std. Dwg. No.

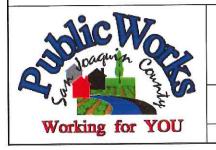




ROLL CURB, GUTTER AND SIDEWALK

### NOTES:

- 1/2" x 24" rebar, greased and wrapped one side through all expansion and cold joints.
- 2 Extend to face of wall if applicable
- 3. Access curb ramps, sidewalks and improvements in the ADA path of travel shall be constructed in conformance with the Federal Americans with Disabilities Act, California Title 24, and these Standards.



# ROLL CURB, **GUTTER AND SIDEWALK**

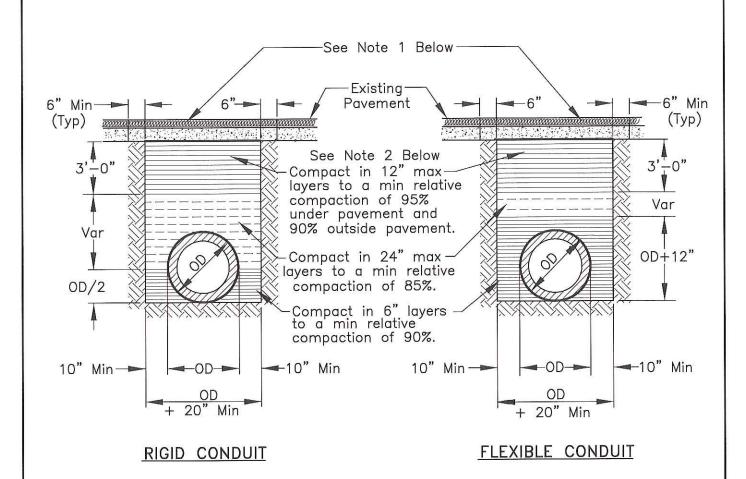
# COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

Date: JUN 2016 Std. Dwg. No.

Thh	roved by:	
No.	Revision Description	Date
CLI	Dwg. No.	D G

M-0



### 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 payement 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.



### 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.
  - 2. 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.
    - a. The County of San Joaquin Public Works Department

The local fire district

b. The County of San Joaquin Sheriff's Office

e. 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.
  - 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, backfill 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.
- Before acceptance of repairs to the County road rights-of-way, all unsightly 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. <u>START OF WORK:</u> 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.