



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-1803687
Date Issued: 10/15/2018
Start Date: 10/29/2018
Exp. Date: 12/01/2018
Project No: PWP7110005
Quad: NE

ENCROACHMENT PERMIT

To: JEFFREY KIRST
P.O. BOX 1259
WOODBIDGE, CA 95258

Encroachment Type:

Trench			
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Location:

TERMINUS OF CHURCH STREET, LOCKEFORD

In compliance with your request of 10/22/2018, 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"****

FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$2,127.00

KRIS BALAJI, Director
Department of Public Works

- WHITE -Permittee
- GOLDENROD -PWD Central File
- YELLOW -Field Inspection
- PINK -Permit Section

By: 
Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

B-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.
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 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.

SPECIAL CONDITIONS FOR
ORCHARD VIEW ENCROACHMENT PERMIT

1. 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 sewer and water pipes and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by Lockeford Community Services District (LCSD), including any facilities that are abandoned in place. LCSD 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 LCSD's expense. (Streets and Highways Code Section 1463)
10. All electrical and gas pipes and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by PG&E, including any facilities that are abandoned in place. PG&E 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 PG&E's expense. (Streets and Highways Code Section 1463)

11. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
12. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
13. 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.
14. 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.
15. Church Street & Cherry Street subject to pavement cuts shall receive a Type II slurry seal for the half of the roadway that will have pavement cuts 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.
16. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur 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.
17. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
18. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
19. 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.
20. 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.
21. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 10/1/18

To: San Joaquin County
Department of Public Works

C & T Properties, G.P.
(Applicant Name)

P.O. Box 1259
(Mailing Address)

Woodbridge, CA 95258
(City, State, Zip Code)

209-810-2297 cell
(Area Code - Telephone Number)

jkirst@gmail.com
(Email Address)

OFFICE USE ONLY			
JOB #	<u>110005</u>	REF #	
APN	<u>019-080-24-34</u>	CR #	
EXP. DATE	<u>12/1/18</u>		
VALID	<u>10/24/18</u> TO <u>12/1/18</u>	DRIVEWAYS:	
STREET	<u>Church street</u>	*	
AREA	<u>Lockeford QUAD NE</u>	*	
TYPE	<u>Trenching</u>	*	
FORMS	<u>SS/WW, R-29, Trench cut policy</u>		
NOTES	<u>Special conditions</u>		

Sketch (Detailed plans may be submitted)

See Attached Plans

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the _____ side of _____ approximately _____ feet/mile _____ of _____, by performing the following work (description of work):

1) Install water, Sewer and Storm Drain Lines in Church Street and Alley in Lockeford, CA.

2) Trench for PGE gas line in Cherry St and Church St. in Lockeford

Work will commence on or after 10/20/18 for approximately 21 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.

J. Jeffrey Kirt General Partner
Signature of Applicant - Title

10/1/18
Date

Acknowledgement of Monument Preservation

I, Joshua C. Elson, a duly Licensed Land Surveyor or a Professional Engineer
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. 7889,


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. PS-1803687

I further acknowledge that I am hereby responsible for the Acknowledgement of Monument

Preservation prior to final acceptance of the construction activity.


Signature

Seal



10-24-18
Date

PS-MONUMENT PRESERVATION

* 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

Areas:

The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

* 2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

* B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. 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

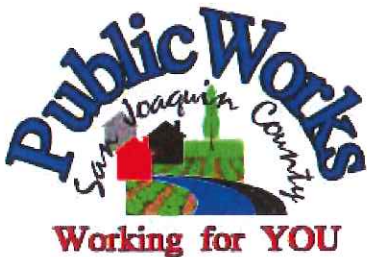
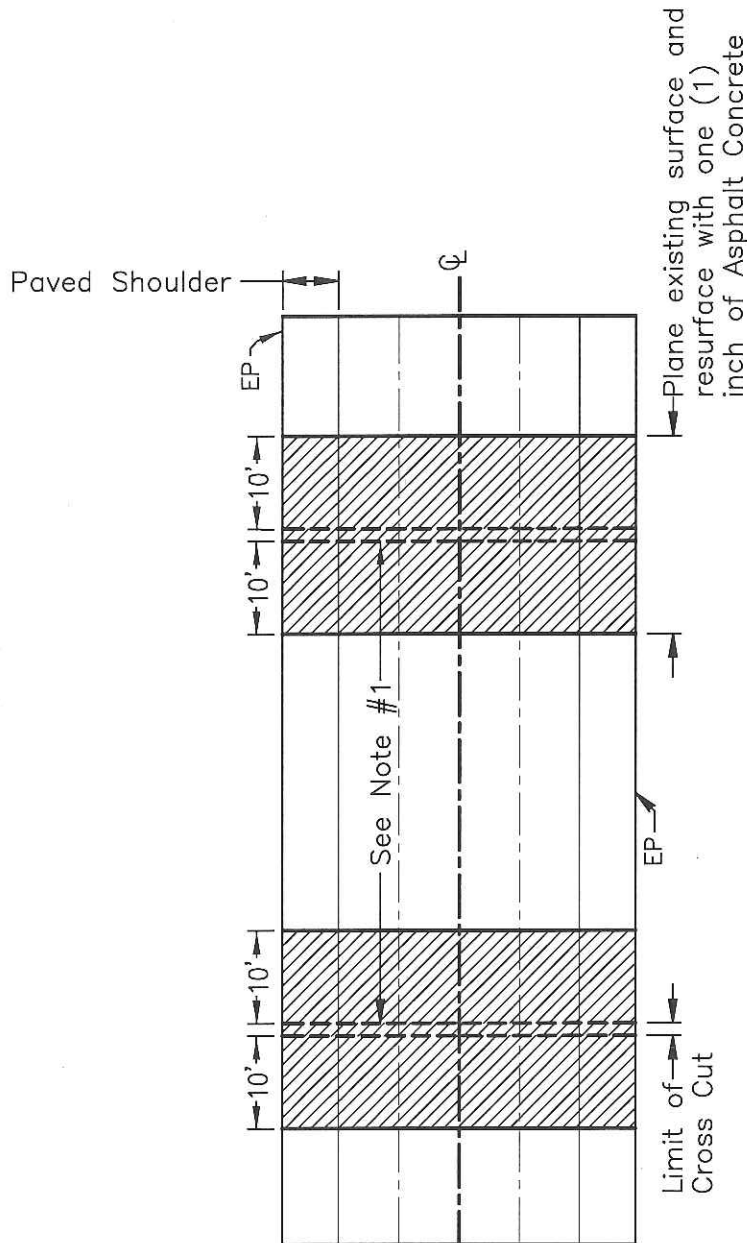
Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including 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.
- D. 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. If the distance between cross-cuts are less than 150' the entire area between cross-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resurfaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less than 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03 (B-2).



**TRENCH CUTTING POLICY
CROSS CUTTING OF
COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by:

Michael Selby

No.	Revision	Description	Date

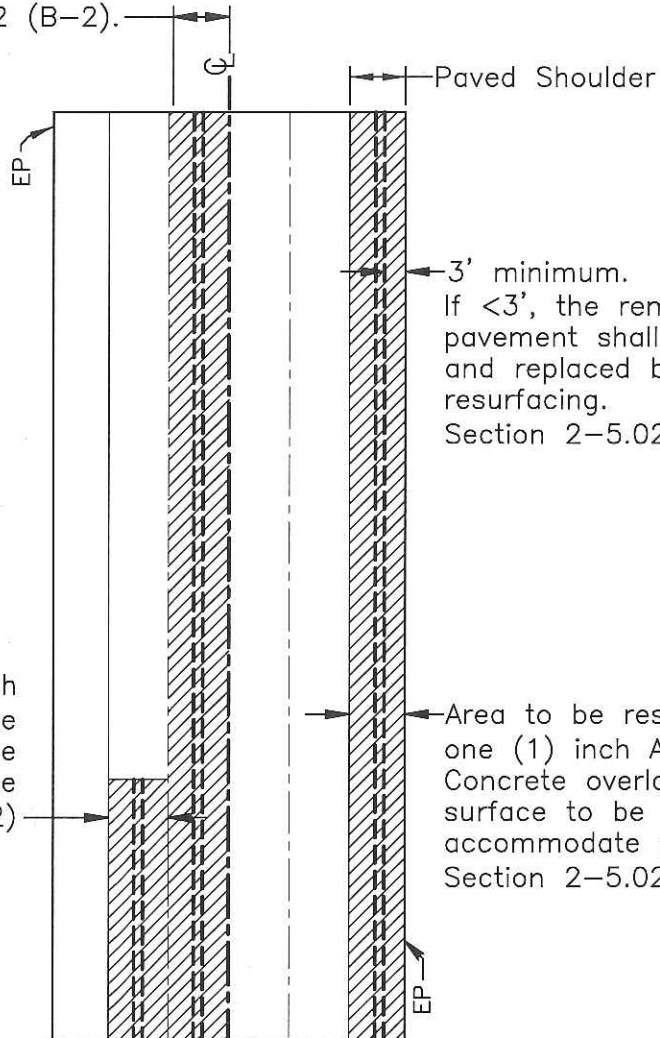
Std. Dwg. No.

R-36

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).

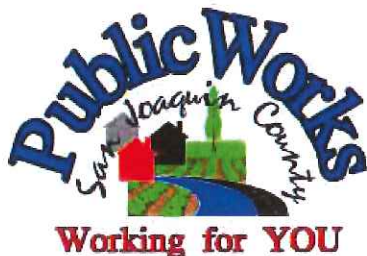
Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay. Section 2-5.02 (B-2).



3' minimum.
If <3', the remaining pavement shall be removed and replaced before resurfacing. Section 2-5.02 (B-1).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02 (B-2)

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02 (B-1).



**TRENCH CUTTING POLICY
LONGITUDINAL CUTTING
OF COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

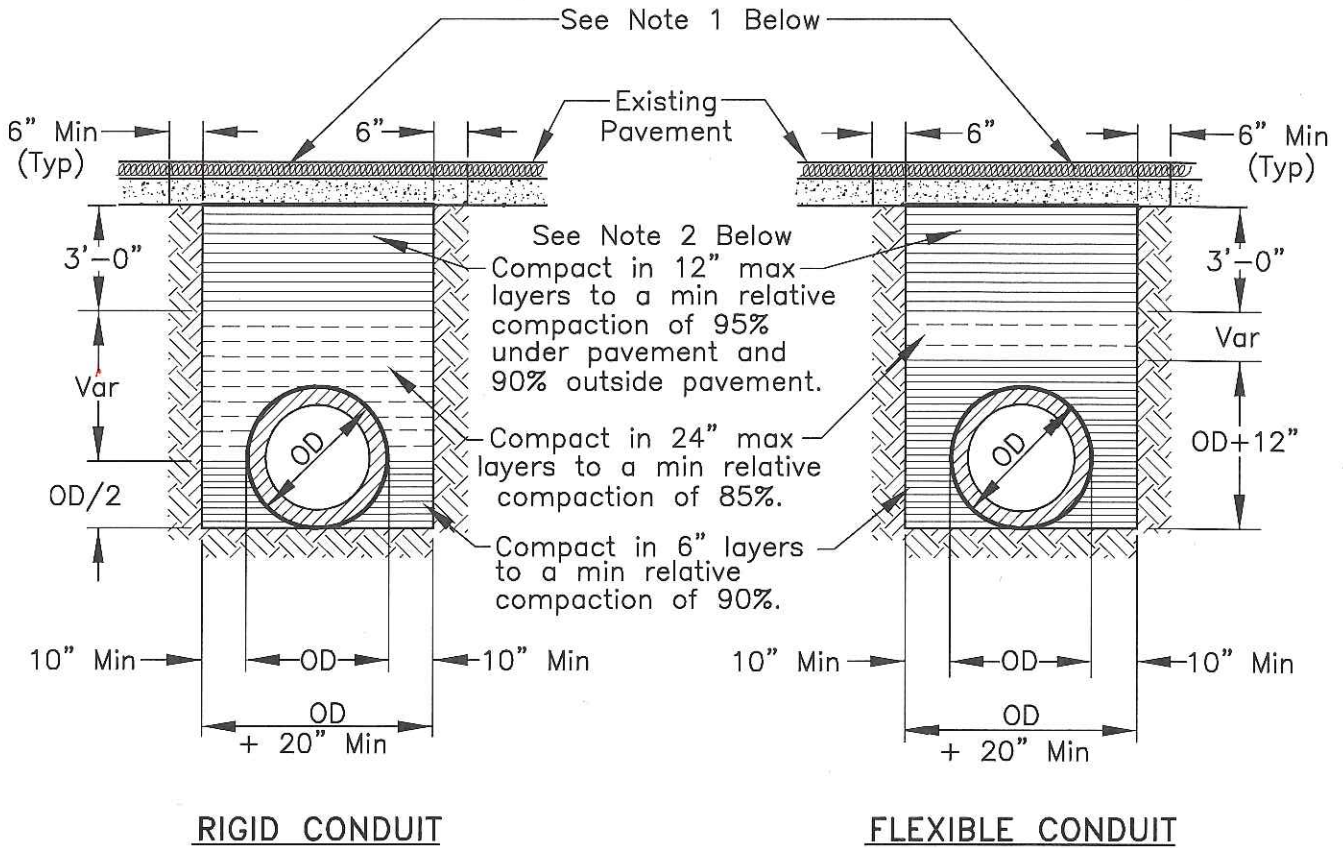
Michael Selby

No.	Revision	Description	Date

Date: DEC 2014

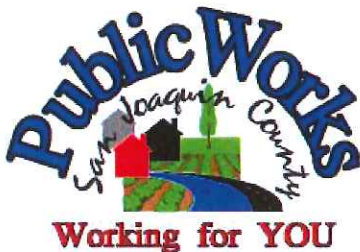
Std. Dwg. No.

R-37



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.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Thomas M. Gull

No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

R-29

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.
 - 1. 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
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - 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.
 - 1. 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, 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.
 - 2. 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 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. **SUPERVISION:** 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. **CLEAN PAVEMENT:** 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. **WEATHER-TIGHT CONDITIONS:** 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.

ORCHARD VIEW VILLAGE

SUBDIVISION

GENERAL NOTES

- All construction materials and workmanship shall conform to San Joaquin County and Lockeford Community Services District Public Improvement Design Standards, Construction Specifications and Standard Plans unless specifically shown otherwise on these plans.
- The Contractor shall make an on-site inspection prior to providing any proposals to determine any and all items not shown as bid items on the proposal sheets, but which may be necessary to perform a complete and acceptable job.
- Baumbach and Piazza, Inc. (Engineer) will not be responsible for or liable for any unauthorized changes to or uses of these plans. All changes to these plans shall be in writing and must be approved by Engineer and all local agencies having jurisdiction. The Contractor shall be responsible for reporting all conflicts, errors, omissions, etc. to the Engineer immediately upon discovery. If so directed by the Director of Public Works, the Contractor shall stop work until mitigations can be made. Any costs incurred resulting from the Contractor's failure to stop as directed, shall be the responsibility of the Contractor.
- It is agreed that field conditions may require changes to these plans. It is further agreed that the Director of Public Works may require changes, alterations or additions to these plans, when the Director deems them to be necessary or desirable for the proper completion of the work, provided that such changes, alterations and additions shall not exceed 10% of the original estimate of the cost for the improvements without prior approval of the county.
- The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety for all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner, Architect and Civil Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the Owner, Architect or Civil Engineer.
- The Contractor shall obtain all necessary encroachment permits for the project and be in receipt of such permits and approved plans prior to beginning of construction.
- The Contractor shall obtain all necessary building permits for the project and be in receipt of such permits and approved plans prior to beginning of construction.
- A pre-construction meeting shall be scheduled by the Contractor prior to all utility agencies at least one week prior to the date of the meeting. The Contractor's job superintendent and all major sub-contractors shall attend.
- Excavation safety requirements include obtaining a CAL OSHA permit or letter of notification to City before excavating deeper than five feet deep.
- A project identification sign shall be installed as shown on the plans, prior to grading. The sign shall have:
Orchard View Village
Developer:
Engineer: Baumbach and Piazza; (209) 368-6618
Contractor:
Lettering: Blue or Black on White (or equivalent contrast) 2" high min.
Install prior to rough grading.
- Contractor is to verify the depth and/or location in the field of all existing utilities before the start of construction.
- All manholes are to be set flush with the finish grade, unless otherwise indicated.
- See architectural plans for exact location and details of building and related curb dimensions.
- All planter areas shall be backfilled and finish grade by landscape contractor. General contractor shall remove asphalt concrete if necessary.
- Engineer shall be provided with compaction tests of all trenches under asphalt, and of all building pads and roadway compaction, prior to paving. Include costs of tests in other items of work. Engineer to approve final grading and compaction prior to any paving.
- All work will be required to be inspected by the Building Department. They shall be notified not less than 24 hours in advance of commencement of work.
- All sanitary and storm drain lines are at critical slopes and grades shall be set by the Engineer.
- Utility Pipe horizontal and vertical clearances shall comply with State Health Standards.
- All testing for leakage or overdeflection shall be witnessed by a County Inspector.
- Bedding for all pipe lines shall conform to San Joaquin County Standard Plan R-29 unless otherwise shown.
- The existing underground utilities were plotted from available records. The Contractor shall be responsible for contacting all utility agencies to mark their facilities in the field before any excavation. The Contractor shall notify and coordinate all work with any agency requiring removal or relocation of their utilities. S.B.C., P.G. & E., Cable T.V., Lockeford Community Services District (LCSD) and U.S.A. (800) 227-2600.
- Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety for all persons and property; that this requirement shall apply continuously and not be limited to normal working hours and that Contractor shall defend, indemnify, and hold the Owner, Project Engineer, San Joaquin County (SJC) and LCSD harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the Owner, Project Engineer, San Joaquin County (SJC) or LCSD.
- All water lines shall be pressure tested per the latest LCSD standards. Pipelines failing pressure test shall be repaired and retested. Contractor to provide all necessary equipment for testing and provide at least 48 hours notice to LCSD.
- All work will be inspected by the San Joaquin County Building Department. No water or sewer pipeline shall be buried prior to inspection by LCSD staff.
- It is agreed that field conditions may require changes to these plans. It is further agreed that the LCSD or SJC may require changes, alterations or additions to these plans, when the Director deems them to be necessary or desirable for the proper completion of the work.
- Any changes to the approved Improvement Plans and Specifications must be prepared and certified by the "Civil Engineer" and shall be approved by the "Director" and LCSD prior to implementation.
- All materials used as sanitary sewer system must have written approval from the District Engineer prior to installation.
- Material sampling and testing shall be the responsibility of the Contractor. All results shall be sent to the LCSD and County Inspector.
- The Contractor shall obtain an Encroachment Permit from SJC for all work within the existing street right-of-way.
- The Owner shall have compaction tests taken for street subgrade, utility trenches and lot fill. Any required retests will be at the Contractor's expense. Sanitary Sewer trench compaction tests shall be done by a qualified soils testing laboratory. The Contractor shall call for tests and submit the results to the LCSD and County as soon as possible. Soils that fail compaction testing shall be removed, recompacted and treated at the Contractor's expense.
- All construction and materials shall be in accordance with the latest edition of the San Joaquin County Improvement Standards. All water & sewer materials shall be in accordance with the latest edition of the LCSD Improvement Standards.
- Whenever pavement is broken or cut in the installation of the work covered by the specifications, the pavement shall be replaced after proper backfilling with pavement materials equal to or better than the materials used in the original paving.
- All water & sewer facilities shall be tested in accordance with LCSD standards.
- Contractor shall submit all material specifications for water and sewer facilities to LCSD for approval prior to construction.

PAVING NOTES

- AC mix design shall be submitted by the Contractor to the Engineer for approval at least 30 days before paving.
- The Contractor shall submit a mix design for approval 15 days prior to paving. The Contractor shall also furnish with the asphalt concrete mix design a list of his sources of materials together with a Certificate of Compliance indicating that materials to be incorporated in the work fulfill the requirements of these specifications. The Certificate of Compliance shall be signed by the material supplier or his representative. The Contractor shall be responsible for all costs associated with the required asphalt concrete mix design.
- Removal of pavement at ends of existing streets to provide proper transition may be required in excess of 2' immediately prior to paving.
- Street Paving the final compacted asphalt mixture shall be a minimum of 93% relative to Maximum Theoretical Density (ASTM-D-2041 Rice Specific Gravity). If compaction is 92.9% or less the asphalt shall be removed and replaced.
- Contractor shall be responsible for finish work due to disruption of pavement at the completion of Soils Engineers compaction testing for new paving/streets.
- The Contractor is responsible for compaction testing of pavement subgrade during paving. Proper repair of core holes shall be the Contractor's responsibility.
- AC mix design shall have been completed within six months of submittal to the Engineer. The A.C. mix design shall indicate the percentage passing each sieve size, percent asphalt recommended, percent voids, stability and maximum theoretical unit weight at each asphalt content used to arrive at the recommended optimum bitumen content (OBC). The OBC shall be selected to meet all the requirements of Section 39 and produce air voids in the compacted mixture at 3 to 5%.
- The Paving Contractor shall not place permanent pavement until all sleeving for irrigation, electric, gas, telephone, cable TV, site lighting, etc. has been installed. It shall be the Paving Contractor's responsibility to insure that all sleeving is in place prior to placing permanent paving.
- A.C. surface shall be cut to a neat, straight line parallel with the street centerline and the exposed edge and/or vertical edge of exposed gutter shall be tacked with emulsion prior to paving. The exposed base material shall be graded, recompacted, and resealed prior to paving.
- Any existing concrete surface to be removed shall be sawcut to a neat, straight line.
- Traffic flow and access entryway shall not be obstructed at any time. Existing property owners to be notified 48 hours minimum in advance of start of construction.
- The Contractor shall submit a traffic control plan which shall be approved by Engineer and the local Public Works Agency before starting any work in the right-of-way. This plan shall be in accordance with Caltrans Traffic Manual. No open trenches except at the time of work. Use steel plates, backfill with A.C. cap.
- The Contractor shall install all traffic striping, markings, and legends per State of California Department of Transportation (Cal Trans) standards. Contractor shall contact San Joaquin County, Traffic Division, for approval of layout prior to start of work. Streets shall match San Joaquin County's units. Restoration of any damaged existing painted legends or signs is the responsibility of the Contractor and shall be included in his bid price.
- Prior to placement of any concrete paving, the Contractor shall provide Engineer with a concrete joint layout, plan and construction details for approval, 48 hours prior to placement of concrete. All work shall conform to A.C.I. recommendations. At minimum, concrete expansion joints shall be placed every 400 sq. ft. (20'x20') and at all edge conditions, unless more stringent requirements are specified by the Architect, Structural Engineer, or Geotechnical Engineer.
- Waste water generated by concrete work to be captured and vacuumed prior to entering County storm drain system.

STAKING NOTES

- Baumbach and Piazza, Inc. (Engineer) shall set all survey controls and construction stakes as necessary for completion of work. The Contractor shall be responsible for the preservation of all survey and construction stakes. Survey and construction stakes that are lost or destroyed due to Contractor's negligence will be set by the Engineer at the Contractor's expense.
- When requesting construction stakes, the Contractor is required to notify Baumbach and Piazza 48 hours in advance of our crews beginning work. It is the Contractor's responsibility to schedule construction staking a minimum of 48 hours prior to commencement of any construction. Engineer assumes no responsibility for any costs incurred for construction shutdowns or delays when not given this advance notice.
- The Contractor shall be responsible for the protection of all existing survey monuments and other survey markers during construction. All such monuments or markers destroyed or lost during construction shall be replaced at the contractor's expense and will require 48 hours notice from the contractor to the replacer said monuments.
- The Contractor shall not perform any work due to staking error without first consulting with Engineer. In the event the cost of any item of corrective work exceeds \$500.00, permission to proceed must be received in writing from Engineer. No liability will be assumed by Engineer for the costs of work performed in violation of this provision.
- Certain utility locations are dimensioned from "back of walk" or "back of curb." Those utilities such as but not limited to, fire hydrants, water and sewer services, street lights and utility boxes will be referenced to back of walk or back of curb. It is the responsibility of the Contractor to align these utilities so as not to create an encroachment upon sidewalk and/or curb and gutter placement.
- Whenever the note "verify" is indicated on these plans, the Contractor shall expose these facilities prior to the start of any construction. After the Contractor has completed exposing said facilities, he shall notify Engineer and request they verify that the horizontal, vertical alignments, measurements, etc., are in substantial conformance with these plans to Engineer's satisfaction. In the event that said facilities are determined not to be in substantial conformance, Engineer reserves the right to revise these plans to reflect their found conditions. The following is a partial list of items to be verified:
A. All drainage connection points.
B. All sewer connection points.
C. All water connection points.
- If the site is not staked by Engineer, the surveyor shall provide written confirmation to Engineer that all utility tie-in points have been verified prior to any construction.
- The Contractor is to provide an offsite field verification of the horizontal and vertical location of all grading and/or forms prior to placement of any proposed improvements such as pavements, curbs, gutters, sidewalks, and/or building foundations. If the Contractor does not verify the proposed improvements prior to their placements, the Contractor assumes full responsibility for the correct placement of said improvements.

WATER NOTES

- Water used in any phase of construction, such as backfill compaction, dust control, testing or other work herein required, shall be included in the unit price or lump sum bid for the respective item of construction or items of work.
- Water services shall be a minimum of three feet apart on mains and shall be at least three feet from valves and flow-offs.
- A licensed water well contractor (C-57) shall abandon wells under permit from San Joaquin County.
- Abandoned irrigation pipes shall be removed.
- All water lines shall have a minimum cover of 30".
- Water services shall be marked by the contractor with a "W" on the curb. Location of water markings shall be verified in the field by the Engineer.
- Extend existing 2" water service north and install meter and box north of on-site walkway.
- Provide 2-2" diameter PVC conduits (schedule 40) under all driveways, for irrigation system.
- All 6" and 8" water lines shall be pressure tested to LCSD standards.
- Domestic and irrigation water lines contractor and utility contractors to coordinate work with grading and underground contractor. Compaction of underground utilities to be provided by installing contractor.
- Separation of water and sewer mains (including crossings) and sewer laterals crossing over water mains shall meet or exceed the latest standards of the State of California Department of Health Services.
- All off-site water lines shall be pressure tested, disinfected, flushed and tested for bacteria in conformance with the San Joaquin County Health Code Requirements prior to connecting to existing water line.
- Where the water crosses SD or SS use an 18"-20" length of CL 200 pipe, centered over the SS or SD if:
a) the water is under the SS or SD.
b) the vertical clearance is less than 1 foot.
- Fire hydrant bid shall include the following: Tee, 6" lateral, 6" valve and complete fire hydrant assembly.
- The Contractor shall notify Lockeford Community Services District for approval prior to connecting the water line to existing water main.
- Installation of all water improvements shall conform to the standards of the Lockeford Community Services District. All such work is subject to inspection by the District Engineer. The Contractor shall notify the District Engineer 48 hours prior to the commencement of any work on the water system.

UTILITY NOTES

- Existing underground utilities shall be protected. The Contractor shall be responsible for contacting all utility agencies to mark their utilities in the field at least 48 hours before excavation. The Contractor shall notify and coordinate all work with any agency requiring removal or relocation of their utilities. Completeness and accuracy of existing utility locations shown in these plans are not guaranteed. Call "USA" (800) 227-2600.
- Underground utilities in the street and sidewalk area shall be installed before construction of curb, gutter, sidewalk or paving. These utilities include services, fire hydrant laterals, street light conduit, electric, gas, cable TV and telephone lines.
- Existing underground utilities were plotted from available records. The Contractor shall be responsible for notifying and coordinating with all appropriate utility companies for the location of all utilities within the construction area.

SANITARY SEWER NOTES

- Replacement of any underground mains damaged during construction of this project will be the responsibility of the Contractor.
- The Contractor may, at his own expense, conduct televised inspection of the storm drain and sanitary sewer lines. The Contractor shall provide the LCSD with a copy of the video and report, in a format acceptable to the LCSD, for review and approval prior to final acceptance of the project.
- Underground tanks, septic systems to be removed with San Joaquin Certifications of Abandonments prior to any rough grading.
- Sanitary sewer pipe shall be PVC per ASTM D3034, SDR35, with joints conforming to ASTM D3212.
- All sanitary sewer lines shall be balled prior to final acceptance. PVC pipe shall be tested for over deflection by means of an approved 5' mandrel, hand-pulled through the lines, in presence of owner's agent.
- Sanitary sewer services shall be marked by the Contractor on the curb & gutter with an "S" stamped on the top of curb.
- Installation of all sanitary sewer improvements shall conform to the standards of the Lockeford Community Services District. All such work is subject to inspection by the District Engineer. The Contractor shall notify the District Engineer 48 hours prior to the commencement of any work on the sanitary sewer system.
- All materials used as sanitary sewer system must have written approval from the District Engineer prior to installation.

STORM DRAIN NOTES

- 18" pipe shall be R.C.P. CLIII conforming to ASTM C-14 with rubber gasketed joints. pipe with less than 18" diameter may be PVC SDR35.
- Minimum cover on storm drain lines shall be 30 inches.
- All off-site storm drains shall be cleaned prior to final acceptance.

CONCRETE NOTES

- Curb, gutter and sidewalk construction shall conform to Section 73, Standard Specifications, California Department of Transportation (Caltrans), except as modified herein.
- Reference is made to the local agencies standard specifications for additional requirements relating to the construction of concrete curb, gutter & sidewalk.
- Subgrade for curb, gutter, sidewalk and driveways shall be compacted to a minimum relative compaction of 95% to a depth of 6". Where the subgrade "R" value is less than 50, place 4" minimum of aggregate subgrade class IV under the concrete sections and compact to a minimum of 95%.
- All radii for rounding edges shall be 3/4" unless noted.
- Concrete shall be class B, per Caltrans Section 90.
- Expansion joints and weakened plane joints shall be installed as indicated on the plans or standard details.
- Curb, gutter and sidewalk shall have a light broom finish; curb & gutter parallel to the flow line, sidewalks perpendicular the flowline.
- Depress a 2" high letter "w" or "s" 1/4" deep into the top of the curb to identify service locations.
- During construction of gutters, water shall be used to insure proper drainage along the flowline.

CLEARING AND GRADING NOTES

- All sidewalks shall be constructed to meet the following criteria:
Max. Longitudinal Slope: 5.0% (1:20)
Max. Cross Slope: 2.0% (1:50)
- Sidewalks parallel to building shall slope away from building at 1/4" per foot.
- Sidewalks adjacent and parallel to parking and driveway pavement shall slope toward pavement at 1/4" per foot.
- All paving and earthwork operations shall conform to the recommendations of the soils report (available from the Developer) if they disagree with these plans. Street and lot grading shall be completed before starting any underground construction. Refer to attached grading plan.
- Building pads will be compacted to 95% R.C. minimum, and per the soils report.
- All site vegetation, existing trees, stumps and etc. shall be removed including roots & hauled from the site.
- Grading operations shall comply with the recommendations contained in the Soils Report for this project by Terracon and with the dust control requirements given below. Compaction shall be to 90% R.C. min., unless otherwise noted in these plans or the soils report. Fill shall not be installed in layers exceeding 12" thickness. Contractor shall coordinate with Terracon prior to commencement of grading operations.
- This project may not balance. Grades will not be adjusted. Import Fill (material not generated from adjacent property) shall meet the requirements of the soils report and be certified as acceptable for this project by the Geotechnical Engineer. Expansive soils are not allowed. Excess material shall become the property of the Contractor and removed from the site.
- The Contractor, at his expense, shall retain the services of a Geotechnical Engineer to certify that the required compaction has been met and to test the concrete for compliance with the specifications.
- Tolerance on compacted subgrades is as follows: Paved areas (concrete and asphalt) and Flatwork areas: 0.05"; all other areas: 0.1".
- Rough grading will be verified on the pads, by the Surveyor.
- No wells, septic tanks or other underground tanks are known to exist on this site. Any wells found shall be abandoned per San Joaquin County Standards.
- Should any irrigation lines be encountered, the Contractor shall remove them.

DUST CONTROL NOTES

- Contractor shall take all necessary precautions to keep dust to a minimum. Cost to be included in other items of work. See Grading Plan and the Storm Water Pollution Prevention Plan (SWPPP).
- Dust Control is the Contractor's sole responsibility when working on-site, and all dust control work shall be included in the bid. The Contractor shall also water the site, as an extra, when requested by the County or the Owner.
- All motors shall be kept properly tuned and maintained.
- Earth moving activities shall cease if wind exceeds 20 mph average over one hour.
- On-site vehicle speeds shall be limited to 15 mph.
- All areas with vehicle traffic should be watered periodically for stabilization of dust emissions.
- The area disturbed by clearing, earth moving or excavation activities should be minimized at all times.
- All material transported on or off-site shall either be sufficiently watered or securely covered to prevent excessive amount of dust.
- When conditions are dry, all material excavated or graded should be sufficiently watered to prevent excessive amount of dust. Watering should occur at least twice a day with complete coverage, preferably in the late morning and after work is done for the day.
- All operations shall comply with the requirements of the San Joaquin Valley Unified Air Pollution Control District.

EROSION CONTROL NOTES

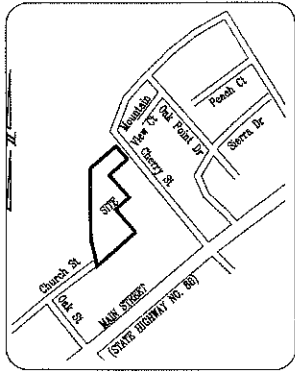
- Contractor shall take all necessary precautions to keep dust to a minimum. Cost to be included in other items of work. See Grading Plan and the Storm Water Pollution Prevention Plan (SWPPP).
- The Developer/Owner is responsible for obtaining required State of California permit(s) for discharge of storm water runoff associated with construction activity pursuant to National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000022. Contact Regional Water Quality Control Board, Central Valley Region at (916)255-3000.
- Streets adjacent to the project site should be swept as needed to remove silt which may have accumulated from construction activities. Daily if needed.
- The Contractor shall be responsible for installing & maintaining the Best Management Practices (BMPs) outlined in the Storm Water Pollution Prevention Plan (SWPPP) for this project. BMPs include catch basin filters, straw wattles and regular street sweeping.
- All catch basins shall be sealed until the completion of the project. If site work extends into the rainy season, other measures may be taken as required by the County at no additional cost to the owner. All storm drainage traps shall be cleaned prior to acceptance. No eroded soil shall be allowed in the Public Right of Way.
- Cost of erosion control and other items of winterization shall be included in the item entitled "Erosion Control and Winterization".
- Contractor will be required to clean existing storm drain downstream of this project, as necessary. Determine existing condition, with Engineer and County Inspector, prior to construction. Pumped water to be collected and removed from the site.
- Contractor must provide concrete washout area and maintain. See Erosion and Sediment Control Plan.

LEGEND

EXISTING	PROPOSED
Water Meter	Water Meter Box
Water Valve	Water Valve
Blowoff	Blowoff
Fire Hydrant	Fire Hydrant
Side Inlet Catch Basin	Double Check Valve Assembly
Drop Inlet Catch Basin	Drop Inlet Catch Basin
Storm Drain Manhole	Storm Drain Manhole
Sanitary Sewer Manhole	Sanitary Sewer Manhole
Street Light	Sanitary Sewer Cleanout
Joint Pole	Sign
Power Pole	200 Watt, Mast-Type Street Light
Guy Anchor	100 Watt, Pedestal-Type Street Light
Sign	Street Light Conduit
Sanitary Sewer Line	Joint Trench
Storm Drain Line	Water Line
Water Line	Transformer
Pipe Invert Elevation	Sanitary Sewer Line (36"-42" dia.)
Ground Elevation	Sanitary Sewer Line (6"-8" dia.)
Pavement Elevation	Storm Drain Line
Edge of Pavement Elevation	Water Line
Back of Walk Elevation	Top of Curb Elevation
Top of Curb Elevation	Finished Grade
Gutter Flow Line Elevation	
Lip of Gutter Elevation	

ABBREVIATIONS

AB APPROX.	AGGREGATE BASE APPROXIMATELY	MISC N.T.S.	MISCELLANEOUS NOT TO SCALE
AC	ASPHALT CONCRETE	OG	ORIGINAL GROUND
BOW	BACK OF WALK	PVMT. or PVMT.	PAVEMENT
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
CBC	2010 CALIFORNIA BUILDING CODE	PP	POWER POLE
CICB	CURB INLET CATCH BASIN	P/L	PROPERTY LINE
CLASS	CLASS	PUE	PUBLIC UTILITY EASEMENT
COG	COMPACT ORIGINAL GROUND	R	RADIUS
CNC. OR CONC.	CONCRETE	R.C.	RELATIVE COMPACTION
CONSTR.	CONSTRUCT	R/W	RIGHT OF WAY
CS & S	CURB, GUTTER & SIDEWALK	SD	STORM DRAIN
C&G	CURB & GUTTER	SS	SANITARY SEWER
DRWY.	DRIVEWAY	SSCO	SANITARY SEWER CLEANOUT
DICB	DROP INLET CATCH BASIN	SSMH	SANITARY SEWER MANHOLE
E OR ELEC.	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
E-Box	ELECTRICAL BOX	SH. OR SHT.	SHEET
EP	EDGE OF PAVEMENT	SICB	SIDE INLET CATCH BASIN
EL. OR ELEV.	ELEVATION	SPEC.	SPECIFICATION
EX. OR EXIST.	EXISTING	SF	SQUARE FEET
EX. 59.55	EXISTING ELEVATION	SG	SUBGRADE
FG	FINISH GRADE	STD.	STANDARD
FDC	FIRE DEPARTMENT CONNECTION	SL	STREET LIGHT
FH	FIRE HYDRANT	T OR Tel.	TELEPHONE (UNDERGROUND)
FL	FLOWLINE	T-Box	TELEPHONE BOX
GB	GRADE BREAK	TP	TELEPHONE POLE
GUY	GUY ANCHOR	TC	TOP OF CURB
IRCD	IRON ROD	TYP.	TYPICAL
IRR	IRRIGATION	W	WATER
JP	JOINT USE POLE	WMB	WATER METER BOX
LF	LINEAL FEET	W-Box	WATER SERVICE BOX
LS	LUMP SUM	WV	WATER VALVE
LIP	LIP OF GUTTER	MH	MANHOLE
YL	YARD LIGHT		
MAX.	MAXIMUM		
MIN.	MINIMUM		



SHEET INDEX

1	KEY SHEET & NOTES
2	DETAIL SHEET
3	GRADING & EROSION CONTROL PLAN
4	UTILITY PLAN

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

APPROVED AS "ENCROACHMENT PERMIT PLAN SET"
APPROVED FOR WORKING UNDER RIGHT-OF-WAY ONLY

APPROVED: *Ally Chatter* 10/24/10 DATE

RCE NO: 53407 EXP. DATE: 12/31/18

ENCROACHMENT PERMIT NO: PS-180687 DATE ISSUED: 10/26/10



CAUTION!
DO NOT SCALE THIS DRAWING IF BAR DOES NOT MEASURE 1 INCH.

NO.	DESCRIPTION	COUNTY APPROVAL
		APPROVED BY DATE

C&T PROPERTIES

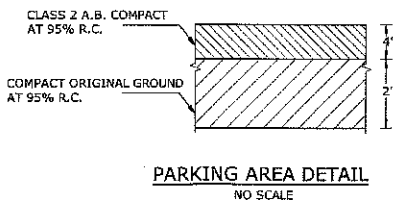
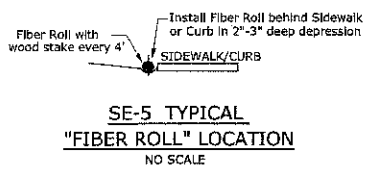
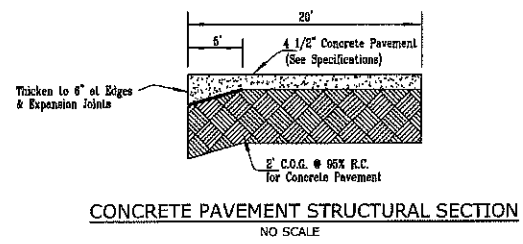
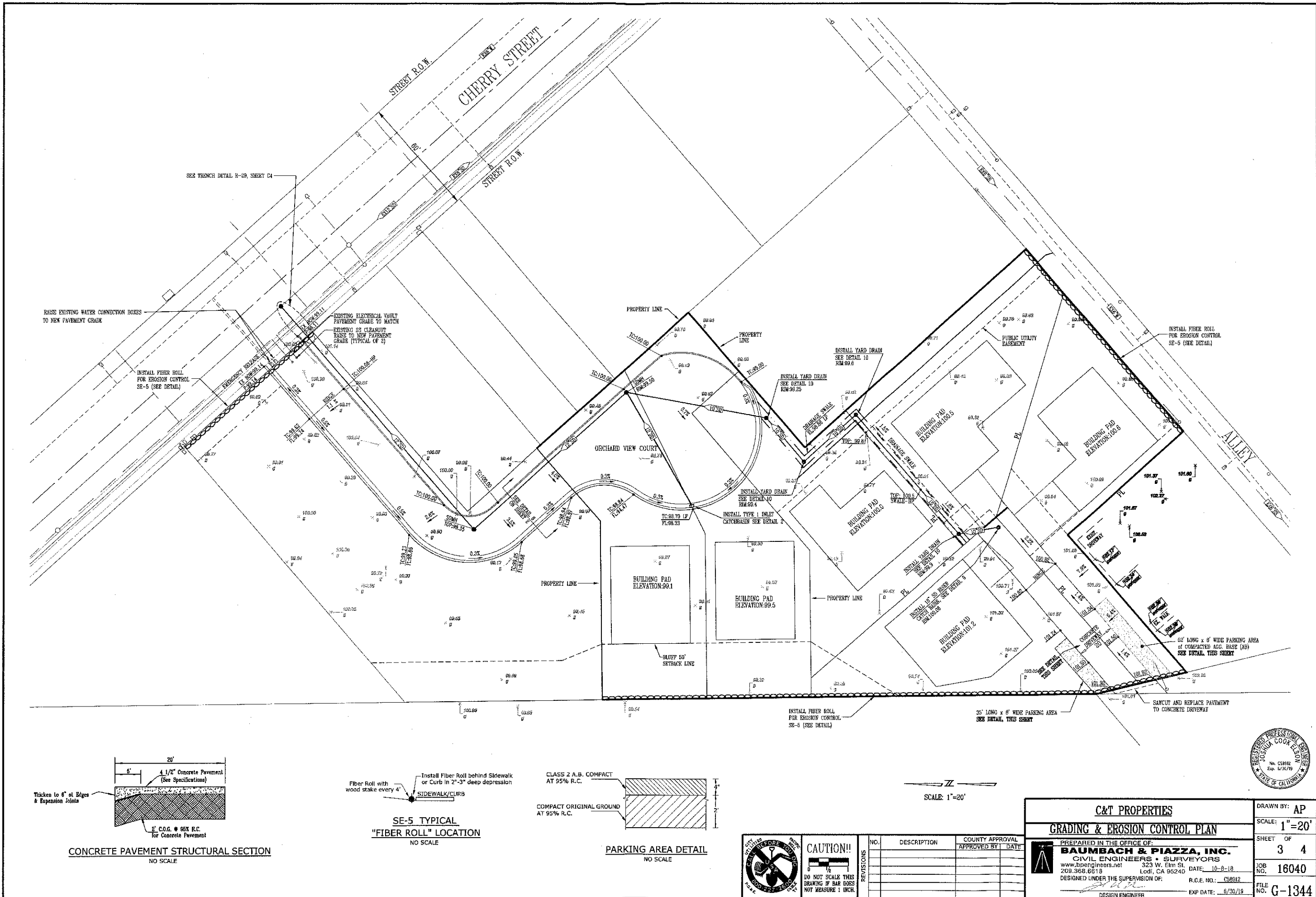
KEY SHEET

DRAWN BY: AP
SCALE: NTS

PREPARED IN THE OFFICE OF:
BAUMBACH & PIAZZA, INC.
CIVIL ENGINEERS
3225 WEST ELM STREET
LODI, CALIFORNIA 95240
DESIGNED UNDER THE SUPERVISION OF:
[Signature]
DESIGN ENGINEER

DATE: 10-8-18
R.C.E. NO.: C68912
EXP. DATE: 6/30/19

JOB NO. 16040
SHEET 1 OF 4
FILE NO. G-1344



SCALE: 1"=20'



CAUTION!!
DO NOT SCALE THIS DRAWING IF BAR DOES NOT MEASURE 1 INCH.

NO.	DESCRIPTION	COUNTY APPROVAL APPROVED BY DATE

C&T PROPERTIES		DRAWN BY: AP
GRADING & EROSION CONTROL PLAN		SCALE: 1"=20'
PREPARED IN THE OFFICE OF: BAUMBACH & PIAZZA, INC. CIVIL ENGINEERS • SURVEYORS www.baumeng.com 209.368.6519 323 W. Elm St. Lodi, CA 95240		SHEET OF 3 4
DESIGNED UNDER THE SUPERVISION OF: <i>[Signature]</i> DESIGN ENGINEER		JOB NO. 16040
R.C.E. NO.: C58912 EXP DATE: 6/30/19		FILE NO. G-1344

COVER PAGE



Work Location: Cherry St Lockeford, Ca
Contractor: C & T Properties
Contact: Jeff Kirst
Phone: 209-209-810-2297
Email: JJKirst@Gmail.com
Working Hours: TBD

-Notes-

- 1) Maintain access or notify all affected driveways to residents, business & emergency vehicles at all times.
- 2) Maintain minimum 10' travel lanes at all times.
- 3) All set-ups & devices will be in accordance with Cal M.U.T.C.D. standards.
- 4) Shall maintain access to bus stops.
- 5) Contractor to provide a safe pedestrian route at all times.
- 6) No parking signs to be placed 24 hours in advance as necessary

Recommended Advance Warning Sign Spacing

Road Type	Distance Between Signs		
	A	B	C
Urban (low Speed) - 25 mph or less	100 ft	100 ft	100 ft
Urban (high Speed)-more than 25 mph to 40 mph	250 ft	250 ft	250 ft
Urban (high Speed) - more than 40 mph	350 ft	350 ft	350 ft
Rural	500 ft	500 ft	500 ft
Expressway/Freeway	1,000 ft	1,500 ft	2,640 ft

Cone Taper Spacing

Speed MPH	Min. Merging Taper	Buffer Space	Max. Device Tangent	Spacing Taper
25>	125'	155'	50	25
30	180'	200'	60	30
35	245'	250'	70	35
40	320'	305'	80	40
45	540'	360'	90	45
50	600'	425'	100	50
55	660'	495'	110	55
60	720'	570'	120	60
65	780'	645'	130	65
70	840'	730'	140	70

All plans must be checked and approved by the government agency, or agencies, having jurisdiction over the roadways shown on this plan prior to the plan being put in effect. All plans are intended to conform to the Manual on Uniform Traffic Control Devices. The customer/contractor is responsible for ascertaining additional agency requirements for work hours allowed, noise abatement, and other rules and regulations.

The temporary traffic controls must be installed per the agency approved plan to be effective. Field changes, other than minor adjustments, must be authorized in writing by a representative of the governmental agency, or agencies, having jurisdiction over the roadway.

Plan implementation and device placement should be performed by experienced/trained personnel. Temporary traffic controls must be monitored and maintained by the customer/contractor to remain effective. Monitoring and maintenance frequency is dictated by field conditions, but not less than daily.

Farwest Safety, INC has no control over, or responsibility for, traffic control plan implementation and inspections performed by others. Users agree to indemnify Farwest Safety, INC for claims made regarding failure to install, maintain or remove controls per approved traffic control plans.



FARWEST

Safety INC.



Farwest Safety, INC.

226 N. Main St.

Lodi, CA 95240

Phone: 209-339-8085

Fax: 209-339-9876

Cell: 209-570-8527

Email: Dispatch@Farwestsafety.com

Author: Allen Meehan

Date Drawn: Oct. 1, 2018



Saw Cut for Gas main & Storm Drain crossings

-No Parking signs to be placed 24 hours in advance of closure



Storm Drain installation

ROAD CLOSED

ROAD CLOSED

ROAD CLOSED
TRUCK TRAFFIC

ROAD CLOSED
TRUCK TRAFFIC

Cherry St

Church St

Alley

Main St

Oak St

Google

No Parking signs to be placed
24 hours in advance of closure

