



## 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-1603397**  
Date Issued: 10/25/2016  
Start Date: 10/25/2016  
Exp. Date: 12/01/2016  
Project No: PWP7110005  
Quad: NW

### ENCROACHMENT PERMIT

To: SEFNCO - CHRIS PERRY  
5340 BRISA ST.  
LIVERMORE, CA 94550

**Encroachment Type:**

Bell Hole	Bore (up to 12 inch Dia)		
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**Location:**

S/S TEEPEE DR 30' W/O CHEROKEE RD

In compliance with your request of **10/25/2016**, 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
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**FORMS:** SS/WW, R-29

**Est. Permit Fee:** \$904.00

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

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.
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.



**\*FOR COMCAST\***

RECEIVED  
SAN JOAQUIN COUNTY

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT: JUL 29 AM 10:38

Date DEPT. 7-28-16

To: San Joaquin County  
Department of Public Works

SEFNO/CHRIS PERRY  
(Applicant Name)

544 INDUSTRIAL PARK DR.  
(Mailing Address)

MANTECA, CA 95337  
(City, State, Zip Code)

925) 783-4877  
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	110005	REF #	
APN		CR #	
EXP. DATE	12-1-16		
VALID	10-25-16 TO 12-1-16	DRIVEWAYS:	*
STREET	Teepce Dr		*
AREA	Stockton QUAD NW		*
TYPE	Bore		
FORMS	SSWW R29		
NOTES			

Sketch (Detailed plans may be submitted)

SEE ATTACHED

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the SOUTH side of TEEPCE DR. approximately 30 feet/mile WEST of CHEROKEE RD., STOCKTON, by performing the following work (description of work):  
BORE FROM EXISTING CATV VAULT TO 2826 TEEPC  
DR. INSTALL 1-2" CONDUIT FOR CATV SERVICE.

Work will commence on or about 8-22-16 for approximately 45 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.

 PERMIT COORDINATOR.  
Signature of Applicant - Title

7-28-16  
Date



SAVECO CO

2826 TEEPEE DR., STOCKTON, CA

JT# 234407

CONTACTS:

SEFNO MELBERT DONNAIRE - 925-350-1238  
COMCAST

SCOPE OF WORK:

-TIE IN AT EXISTING VAULT IN THE ROW, ON THE SOUTH SIDE OF TEEPEE DR. AT THE INTERSECTION OF CHEROKEE RD. & TEEPEE DR. DIRECTIONAL DRILL APPROX. 670 FT. UNDER THE LANDSCAPING / DRIVEWAYS ON SOUTH SIDE OF TEEPEE DR. PLACE A NEW VAULT OPPOSITE THE SITE ADDRESS AT 2826 TEEPEE DR. AND CONTINUE TO DRILL/BORE UNDER TEEPEE DR. APPROX. 95 FT. AND INTO THE SITE LANDSCAPE AREA (PRIVATE PROPERTY).

BILL OF MATERIALS\*:

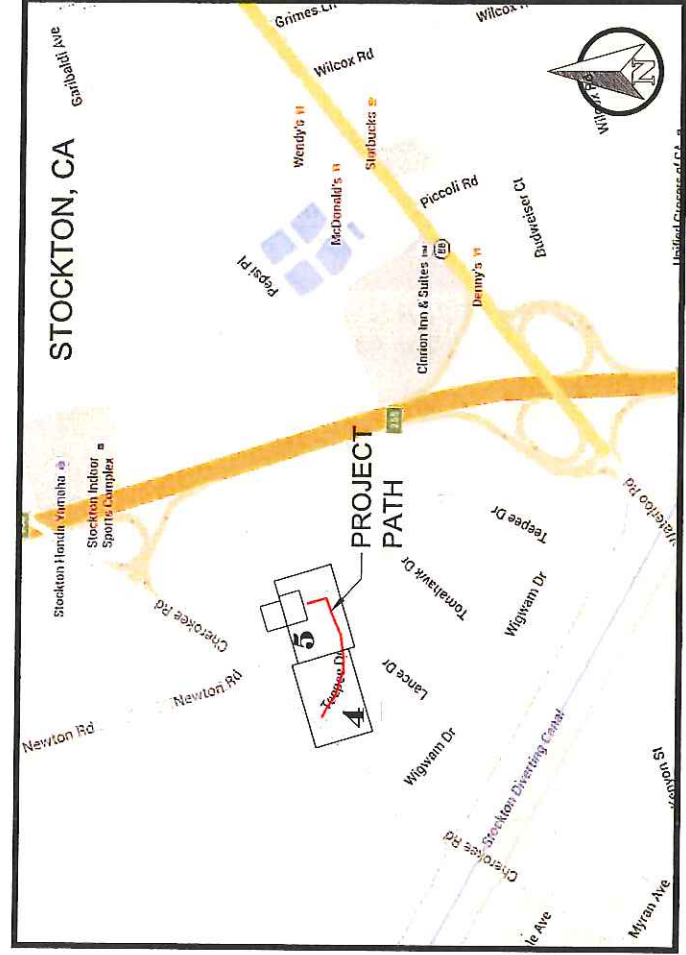
765 FT - 2" HDPE CONDUIT & COMMUNICATION CABLE  
1 - B36 VAULT

PROJECT DESCRIPTION*	
NEW AERIAL	= 0 FT.
OVERLASH	= 0 FT.
NEW UNDERGROUND	= 765 FT.
EXISTING UNDERGROUND	= 0 FT.
RISER (0)	= 0 FT.
TOTAL FOOTAGE	= 765 FT.

\*ALL FOOTAGES AND MATERIALS ARE ESTIMATED

SHEET INDEX:

- 1 - COVER SHEET
- 2 - NOTES & LEGEND SHEET
- 3 - DETAILS SHEET
- 4-5 - ROW SITE DESIGN
- 6-7 - TRAFFIC CONTROL PLANS



PROJECT MAP:

SAVECO CO  
STOCKTON, CA

234407  
PERMIT

DATE	REVISION	BY	QC
7/26/16	PERMIT	EN	CP



COVER

1 OF 7



## GENERAL NOTES:

1. ALL VAULTS / HANDHOLES TO BE EQUIPPED WITH SECURITY LIDS WITH LOCKING BOLTS.
2. GROUND RESTORATION/RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
3. ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM OF 36" RADIUS UNLESS SPECIFIED OTHERWISE.
4. BURIED FIBER OPTIC WARNING SIGNS SHALL BE PLACED AT EACH SIDE OF ALL ROAD CROSSINGS, AT CULVERTS, DITCHES AND IN A STRAIGHT LINE OF SIGHT SPACING OF APPROXIMATELY 500 FEET.
5. DEVIATIONS FROM THE ENGINEERED ROUTE REQUIRES A PROJECT MANAGER AND RIGHT-OF-WAY OWNER OR CARETAKER APPROVAL PRIOR TO CONSTRUCTION.
6. WHERE PERMITS FROM STATE, COUNTY, CITY, RAILROAD OR GOVERNMENT AGENCIES ARE REQUIRED, ALL WORK PERFORMED WILL COMPLY WITH THESE AGENCIES STANDARD SPECIFICATIONS.
7. THE PROJECT MANAGER WILL NOTIFY BUILDING MANAGEMENT WHEN WORK WILL BEGIN ON BUILDING. CONTRACTOR TO COORDINATE ROOM ACCESS AND WORK START AND STOP TIMES WITH BUILDING MANAGEMENT.
8. THE PROJECT MANAGER IS TO BE NOTIFIED BY THE CONTRACTOR 24 HOURS PRIOR TO CONSTRUCTION. SEE COMPANY CONTACT LIST FOR CONTACT NAME(S) AND TELEPHONE NUMBER(S).
9. THE PROJECT MANAGER WILL RESERVE THE RIGHT TO INSPECT AT ANY TIME THE WORK BEING PERFORMED BY THE CONTRACTOR. IF PROJECT MANAGER DETERMINES THAT THE WORK IS NOT BEING PERFORMED TO MINIMUM QUALITY STANDARDS, THEN THE CONTRACTOR SHALL PROVIDE REWORK AT HIS OWN COST.
10. ANY CHANGE IN PROJECT SCOPE, INCLUDING BUT NOT LIMITED TO, CONDUIT LENGTH, CONDUIT PATH, AERIAL PATH ETC., MUST BE APPROVED BY THE PROJECT MANAGER.
11. ALL CORING/CONSTRUCTION THAT WILL CAUSE NOISE AND/OR VIBRATION SHALL BE DONE WITHIN ALLOWED (9AM-3PM) BUSINESS HOURS.
12. ANY AND ALL UNDERGROUND UTILITIES ENCOUNTERED ARE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, IF DAMAGED.
13. ALL FOOTAGES ARE BASED ON FIELD GATHERED MEASUREMENTS, AS SUCH SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
14. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 36" MINIMUM COVER. SITE HAS POTENTIAL FOR ROCK THAT WOULD PREVENT THE ABILITY TO PROVIDE THE MINIMUM COVER. IN CASES WHERE THE MINIMUM COVER CAN NOT BE ACHIEVED, THE CONDUIT SHALL BE PLACED IN A SCH 40 EMT SLEEVE OR APPROVED EQUIVALENT.
15. WATER, SEWER, STORM SEWER AND EASEMENT LOCATIONS ARE BASED OFF OF CITY MAPS, NOT FIELD VERIFIED.
16. BORING OF AC PAVING IS REQUIRED AT ALL LOCATIONS AS INDICATED ON PLANS.
17. AT NO TIME SHALL CURBS, GUTTERS OR HANDICAP BE DISTURBED.
18. DOOR HANGERS ARE TO BE PLACED A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION.
19. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL PLACE MESSAGE BOARDS STATING LANE CLOSURES, AND DELAYS A WEEK IN ADVANCE. LOCATION OF THE MESSAGE BOARD SHALL BE COORDINATED WITH THE CITY INSPECTOR AT THE PRE-CONSTRUCTION MEETING.
20. LANE CLOSURES CANNOT EXCEED MORE THAN 300 FT. AT A TIME. FOR SAFETY PURPOSES THERE SHALL BE ONLY ONE CLOSURE AT A TIME ALONG INTERNATIONAL BLVD. MORE FLAGGERS WILL BE NECESSARY TO HELP VEHICLES AND PEDESTRIANS IN THE WORK ZONES DURING THE LANE CLOSURES.

## DISCLAIMER:

1. IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO VERIFY ALL RIGHT OF WAY BEFORE CONSTRUCTION IS TO BEGIN. NO UNDERGROUND INSTALLATION REPRESENTED WITHIN THESE PLAN SHEETS IS PROPOSED OUTSIDE OF THE RIGHT OF WAY.
2. THE UNDERGROUND ROUTE DEPICTED IS PRELIMINARY AND WILL VARY ONCE UTILITIES HAVE BEEN FIELD LOCATED.
3. ANCHORING FOR THE AERIAL CONSTRUCTION IS TYPICALLY DETERMINED DURING CONSTRUCTION AND IS COLLECTED IN THE AS-BUILT PHASE.

## LEGEND:

	RIGHT-OF-WAY		PROPOSED DIRECTIONAL DRILL
	TRAFFIC LANE		PROPOSED BORE
	CENTERLINE		EXISTING PULL THRU
	FENCE		PROPOSED OPEN TRENCH
	GUARD RAIL		AERIAL STRAND
	PROPOSED BORE PIT		EXISTING POLE W/ NEW RISER
	STREET/SIGNAL/TRAFFIC LIGHT		LANDSCAPING/TREE
	CONSTRUCTION NOTE		TRAFFIC FLOW
	FIRE HYDRANT		PROPOSED VAULT
	CATCH BASIN		POTHOLE LOCATION
	CHANNELIZATION		BUILDING OUTLINE
			5+39 STATIONING
			MANHOLE
			SEWER
			WATER
			STORM DRAIN
			POWER
			COMMUNICATIONS
			GAS

## FIBER PLACEMENT NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. SEE LOCAL DIRECTORY FOR CONTACT TELEPHONE NUMBER OF LOCAL CALL BEFORE YOU DIG AGENCY.
2. CONTRACTOR SHALL RECORD SEQUENCE # OF FIBER CABLE AT EVERY WORK POLE, MANHOLE, FIBER STORAGE LOOP AND TAIL LOCATION. CONTRACTOR TO PROVIDE PROJECT MANAGER WITH SEQUENCE NUMBERS AT PROJECT COMPLETION.
3. SLACK LOOP AND SNOWSHOE STORAGE LOCATIONS SHALL BE DETERMINED ON CONSTRUCTION DRAWINGS. HOWEVER, REEL LENGTHS OF FIVE HUNDRED FEET (500') OR LESS ON LARGE COUNT FIBER OR THREE HUNDRED FEET (300') OR LESS ON SMALL COUNT FIBER ARE DIFFICULT TO USE AND SHOULD BE PLACED AS FSL'S, NOT OUT AND RETURNED.
4. FIBER OPTIC IDENTIFICATION TAGS SHALL BE PLACED AT EVERY WORK POLE, MANHOLE, FIBER STORAGE LOOPS, SPLICE CASES AND WHERE INDICATED BY PROJECT MANAGER. TAGS NEED TO BE PLACED SO AS TO BE READ FROM THE GROUND.
5. CABLE LUBRICATION SHALL BE USED TO REDUCE PULLING TENSION. LUBRICANTS MUST NOT CONTAIN ANY PETROLEUM PRODUCTS.
6. A 100 FOOT FIBER COIL MUST REMAIN IN ALL VAULTS UNLESS OTHERWISE NOTED.
7. ALL BURIED INFRASTRUCTURE MUST BE ACCOMPANIED WITH WARNING TAPE AND A TRACER WIRE, AT RISER POLES THE LOCATE WIRE SHALL BE ACCESSIBLE AT THE BASE OF THE RISER.
8. ALL RISERS WILL BE CAPPED AT ALL TIMES.
9. ALL FIBER SHALL BE MARKED AS TO DIRECTION IN EACH VAULT. RED-NORTH, GREEN-SOUTH, YELLOW-EAST, AND BLUE-WEST. DO NOT TAPE FIBER CABLES TOGETHER IN RISER.

SAVECO CO  
STOCKTON, CA

234407  
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DATE	7/14/16	PERMIT
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COMCAST

SEFENCO  
COMMUNICATIONS  
"DELIVERING EXCELLENCE"

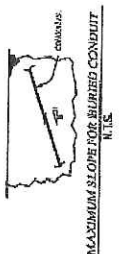
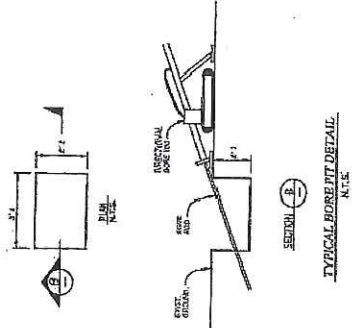
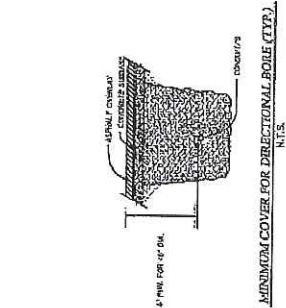
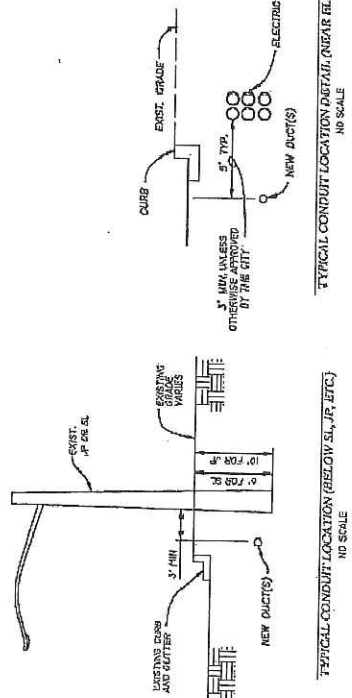
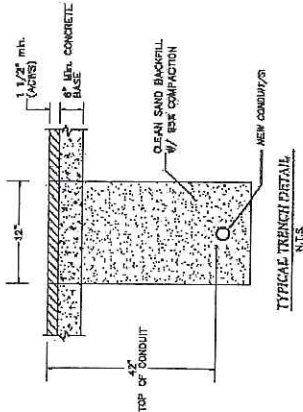
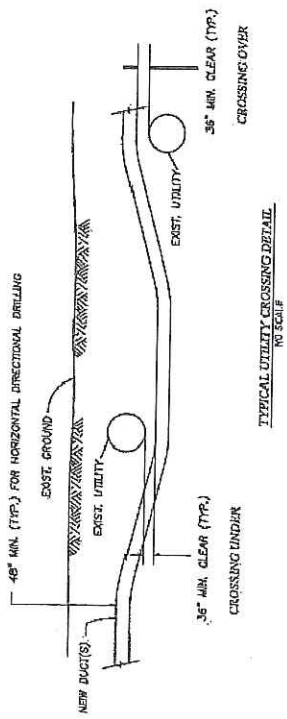
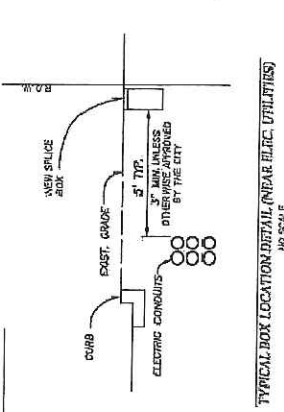
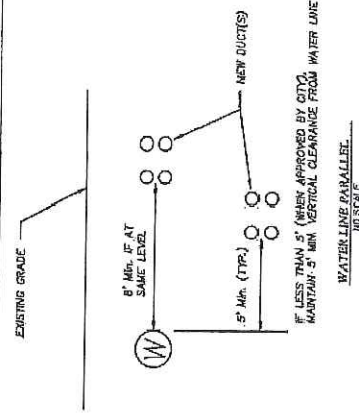
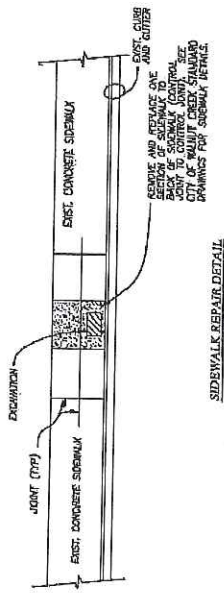
NOTES & LEGEND

2 OF 7



Know what's below.  
Call before you dig.

# TYPICAL DETAILS



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SEFNGO COMMUNICATIONS  
"DELIVERING EXCELLENCE"

NO SCALE  
3 OF 7



**SAVECO CO**  
**STOCKTON, CA**

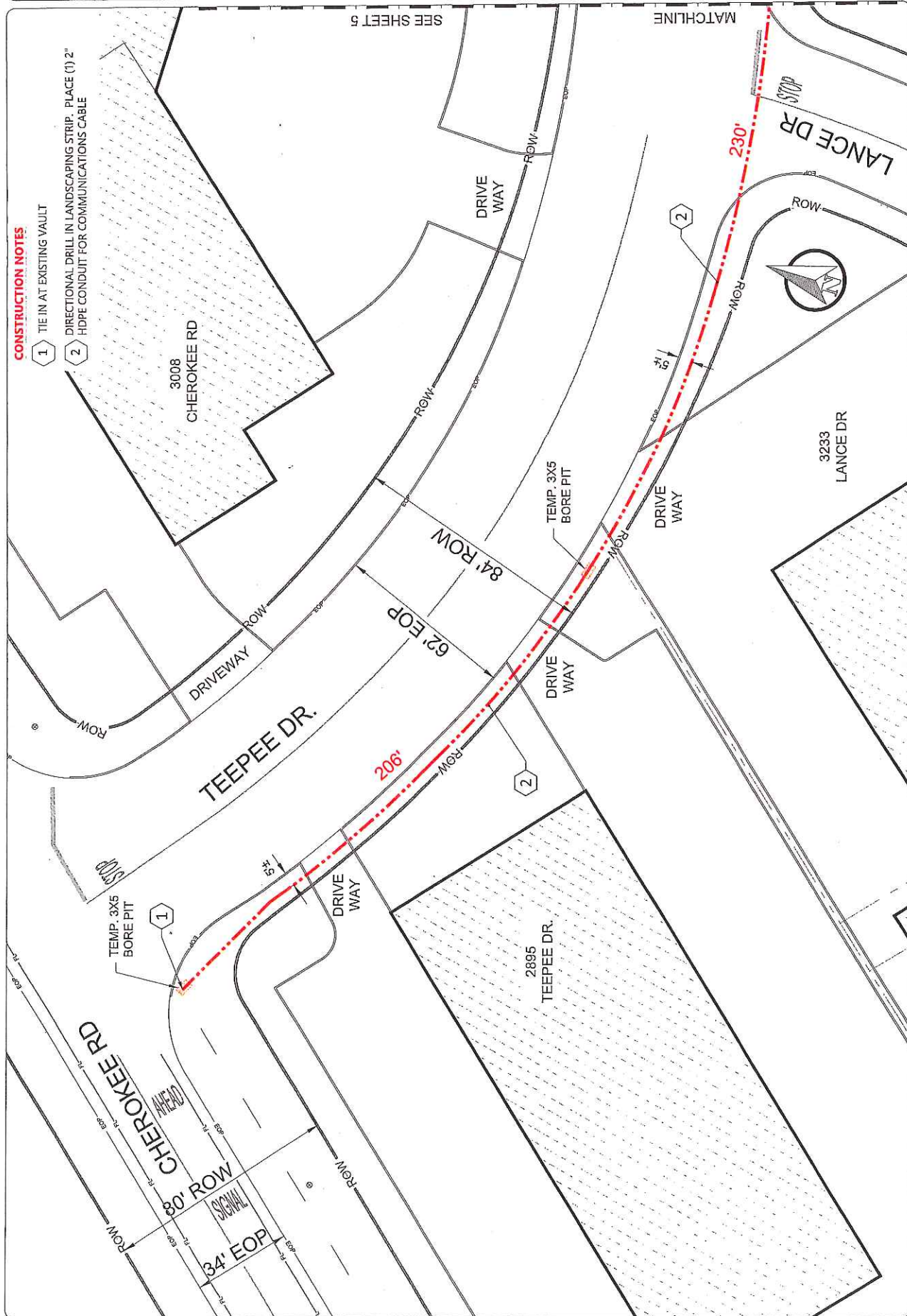
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**PERMIT**

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SCALE: 1"=20'

0	10°	20°
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4 OF 7



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**STOCKTON, CA**

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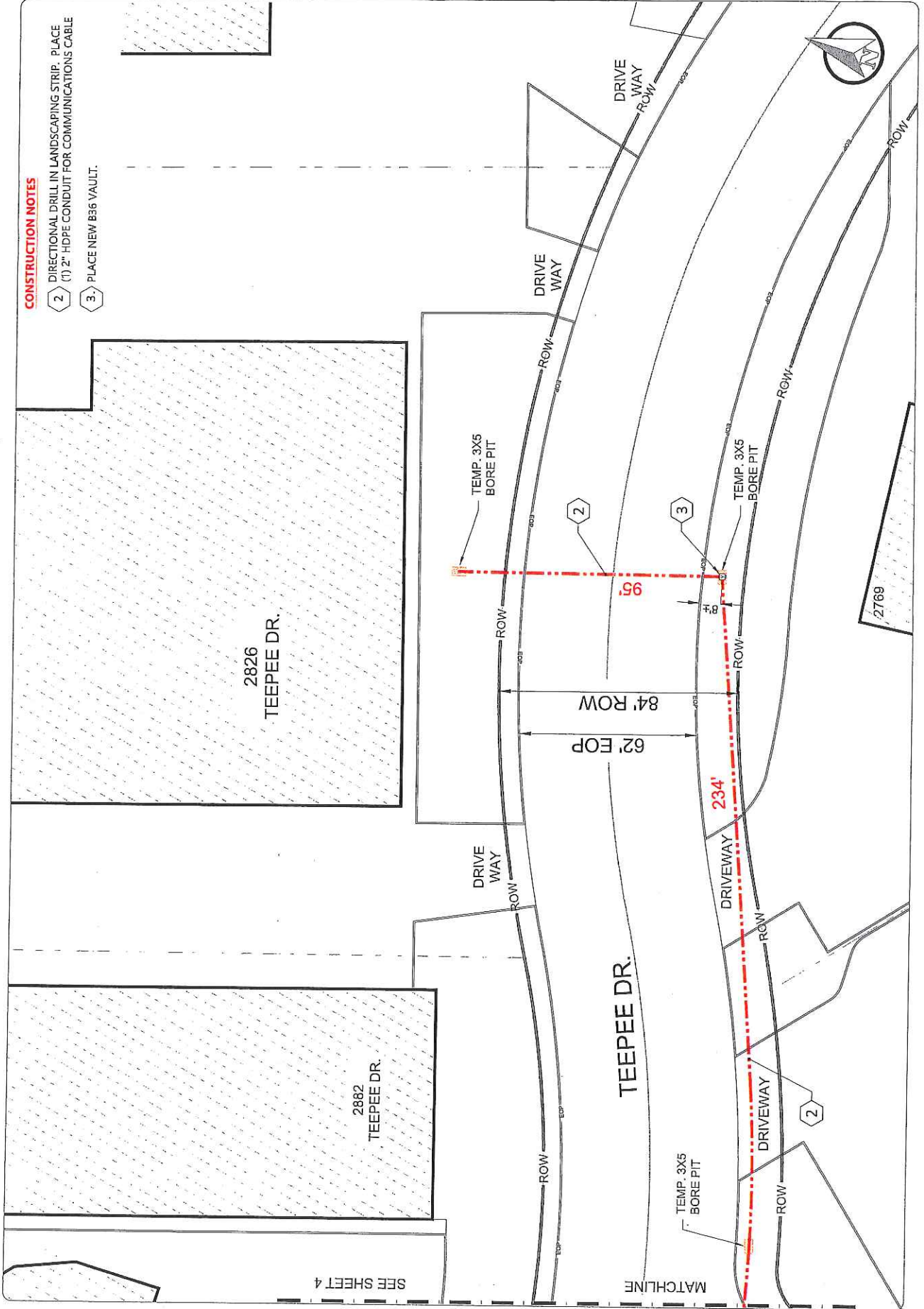


SCALE: 1" = 20'  
0 10' 20'

5 OF 7

**CONSTRUCTION NOTES**

2. DIRECTIONAL DRILL IN LANDSCAPING STRIP. PLACE (1) 2" HDPE CONDUIT FOR COMMUNICATIONS CABLE
3. PLACE NEW B36 VAULT.



SEE SHEET 4



# SITE SPECIFIC TRAFFIC CONTROL PLAN

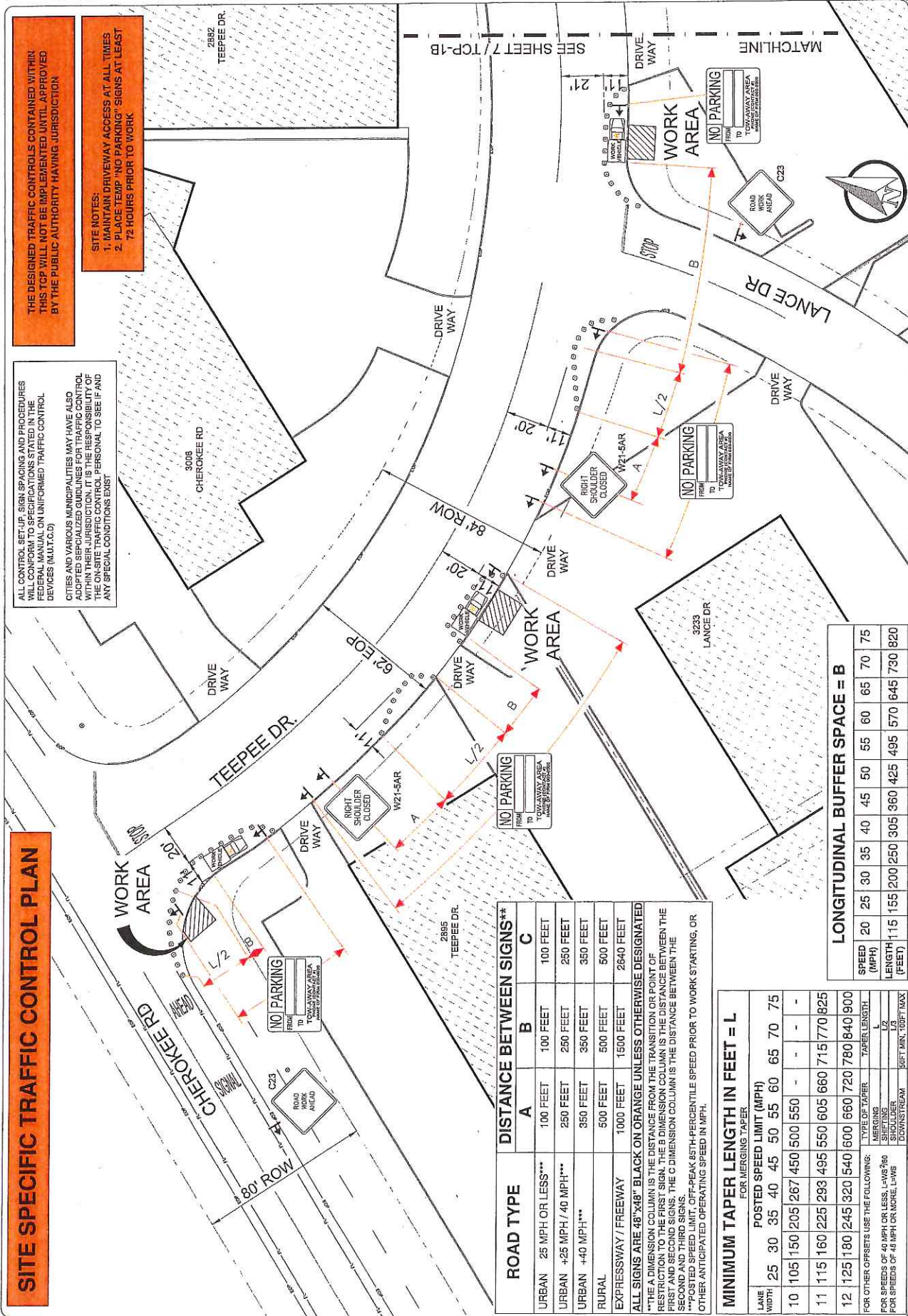
ALL CONTROL SET-UP, SIGN SPACING AND PROCEDURES WILL BE IN ACCORDANCE WITH THE FEDERAL MANUAL ON UNIFORMED TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

CITIES AND VARIOUS MUNICIPALITIES MAY HAVE ALSO ADOPTED SPECIALIZED GUIDELINES FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE ON-SITE TRAFFIC CONTROL PERSONNEL TO SEE IF AND ANY SPECIAL CONDITIONS EXIST.

THE DESIGNED TRAFFIC CONTROLS CONTAINED WITHIN THIS TCP WILL NOT BE IMPLEMENTED UNTIL APPROVED BY THE PUBLIC AUTHORITY HAVING JURISDICTION

**SITE NOTES:**

1. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES
2. PLACE TEMP "NO PARKING" SIGNS AT LEAST 72 HOURS PRIOR TO WORK



ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN 25 MPH OR LESS***	100 FEET	100 FEET	100 FEET
URBAN +25 MPH / 40 MPH***	250 FEET	250 FEET	250 FEET
URBAN +40 MPH***	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY / FREEWAY	1000 FEET	1500 FEET	2640 FEET

ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

\*\*THE A DIMENSION COLUMN IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION COLUMN IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION COLUMN IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

\*\*\*FOR SPEEDS OF 40 MPH OR LESS, LANE 500 FEET. FOR SPEEDS OF 45 MPH OR MORE, LANE 1000 FEET.

MINIMUM TAPER LENGTH IN FEET = L										
FOR MERGING TAPER										
LANE WIDTH	POSTED SPEED LIMIT (MPH)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	267	450	500	550	-	-	-
11	115	160	225	293	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840
FOR OTHER OFFSETS USE THE FOLLOWING:										
FOR SPEEDS OF 40 MPH OR LESS, L=5760										
FOR SPEEDS OF 45 MPH OR MORE, L=6300										

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65
LENGTH (FEET)	115	155	200	250	305	360	425	495	570	645
	115	155	200	250	305	360	425	495	570	645

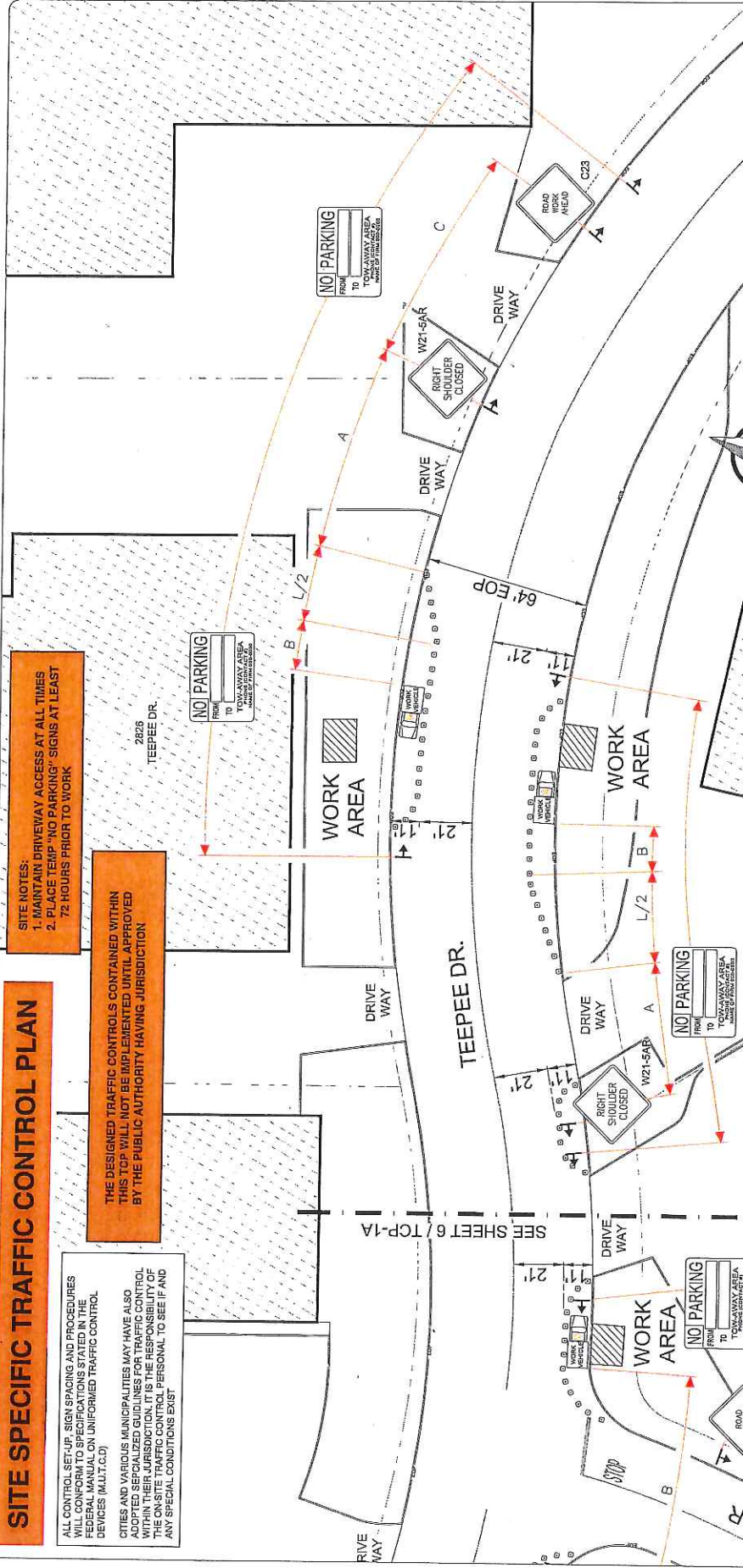


ALL CONTROL SET-UP, SIGN SPACING AND PROCEDURES WILL CONFORM TO SPECIFICATIONS STATED IN THE FEDERAL MANUAL ON UNIFORMED TRAFFIC CONTROL DEVICES (M.U.T.C.D)

CITIES AND VARIOUS MUNICIPALITIES MAY HAVE ALSO ADOPTED SPECIALIZED GUIDELINES FOR TRAFFIC CONTROL WITHIN THEIR JURISDICTION. IT IS THE RESPONSIBILITY OF THE ON-SITE TRAFFIC CONTROL PERSONAL TO SEE IF AND ANY SPECIAL CONDITIONS EXIST

1. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES
2. PLACE TEMP "NO PARKING" SIGNS AT LEAST 72 HOURS PRIOR TO WORK

THE DESIGNED TRAFFIC CONTROLS CONTAINED WITHIN  
THIS TCP WILL NOT BE IMPLEMENTED UNTIL APPROVED  
BY THE PUBLIC AUTHORITY HAVING JURISDICTION



**MINIMUM TAPER LENGTH IN FEET = L**  
FOR MERGING TAPER

LANE WIDTH	POSTED SPEED LIMIT (MPH)										TYPE OF PAPER	TAPER LENGTH	
	25	30	35	40	45	50	55	60	65	70		75	MERGING
10	105	150	205	267	450	500	550	-	-	-	-	-	-
11	115	160	225	293	495	550	605	660	715	770	825	-	-
12	125	180	245	320	540	600	660	720	780	840	900	-	-

FOR OTHER SPEEDS USE THE FOLLOWING:  
FOR SPEEDS OF 40 MPH OR LESS, LANE 20-  
FOR SPEEDS OF 45 MPH OR MORE, LANE 20-  
DOWNSTREAM

SOFT MIN. 100FT MAX

LONGITUDINAL BUFFER SPACE = B												
SPEED (MPH)	20	25	30	35	40	45	50	55	60	65	70	75
LENGTH (FEET)	115	155	200	250	305	360	425	495	570	645	730	820

ROAD TYPE		DISTANCE BETWEEN SIGNS**			
		A	B	C	C
URBAN	25 MPH OR LESS**	100 FEET	100 FEET	100 FEET	
URBAN	+25 MPH / 40 MPH**	250 FEET	250 FEET	250 FEET	
URBAN	+40 MPH**	350 FEET	350 FEET	350 FEET	
RURAL		500 FEET	500 FEET	500 FEET	
EXPRESSWAY / FREEWAY		1000 FEET	1500 FEET	2640 FEET	

**ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED**

\*\*THE A DIMENSION COLUMN IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION COLUMN IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION COLUMN IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

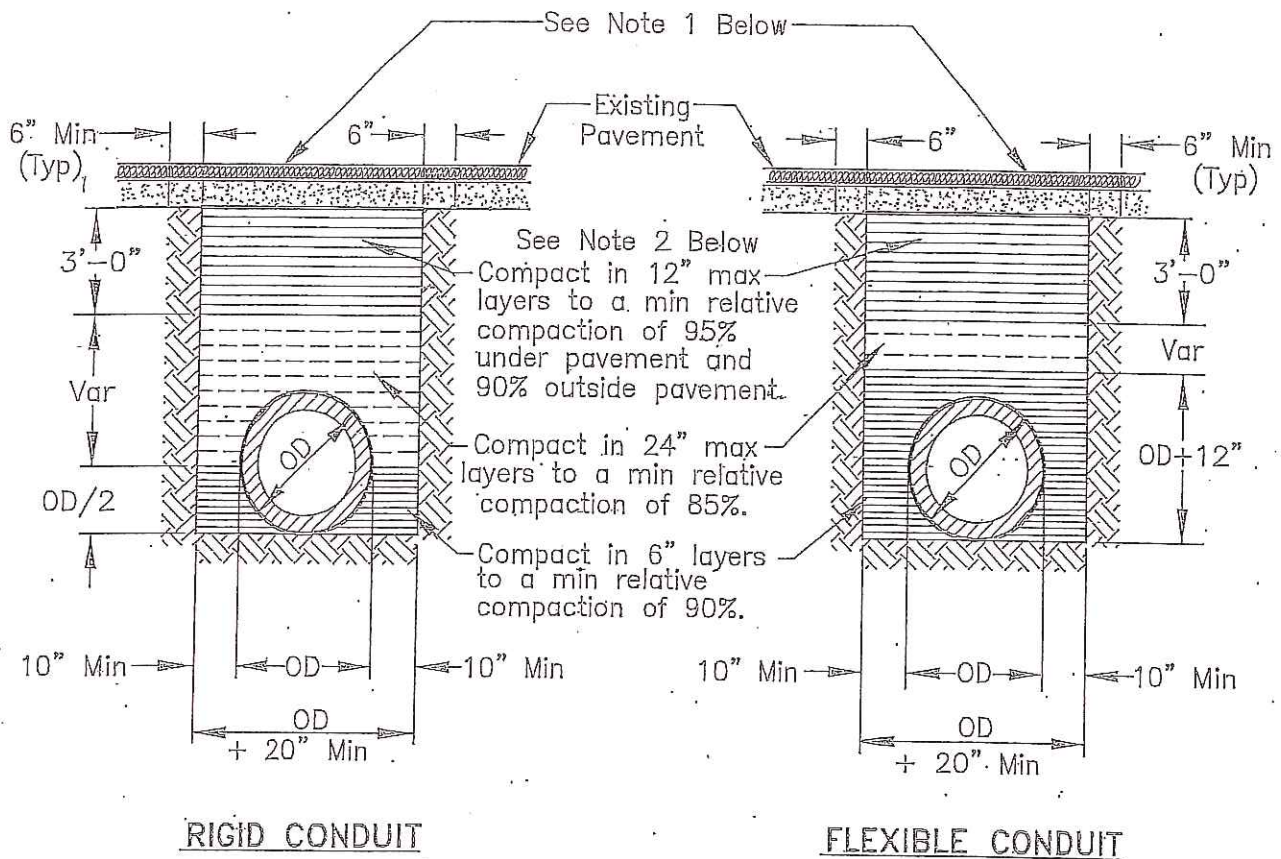
\*\*\*POSTED SPEED LIMIT, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING, OR OTHER ANTICIPATED OPERATING SPEED IN MPH.

ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

\*\*\*THE A DIMENSION COLUMN IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION COLUMN IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION COLUMN IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

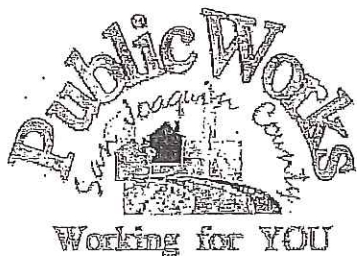
\*\*\*POSTED SPEED LIMIT, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR OTHER ANTICIPATED SPEED IN MPH.





#### 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

Std. Dwg. No.

**R-29**

Date: DEC. 2014



## 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

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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.