



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-1602498**
Date Issued: 08/11/2016
Start Date: 08/11/2016
Exp. Date: 10/01/2016
Project No: PWP7110005
Quad: NE

ENCROACHMENT PERMIT

To: SEFNCO-CHRIS PERRY
544 INDUSTRIAL PARK DR.
MANTECA, CA 95337

Encroachment Type:

Bore (up to 12 inch Dia)

Location:

W/S N AD ART RD 500' S/O CHEROKEE RD

In compliance with your request of **08/11/2016**, 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

FORMS: SS/WW, R-29

st. Permit Fee: \$904.00

E
ENROD
W
-Permittee
-PWD Central File
-Field Inspection
-Permit Section

KRIS BALAJI, Director
Department of Public Works

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

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date

7-7-16

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

10-1-16

VALID

8-11-16

TO

10-1-16

DRIVEWAYS:

STREET

Ad Art

AREA

Stockton

QUAD

NE

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 WEST. side of N. AD ART approximately 500 (feet/mile) SOUTH of CHEROKEE RD. STOCKTON, by performing the following work (description of work):
BORE FROM JOINT POLE TO 329.5 N. AD ART RD.
INSTALL 1-2" CONDUIT FOR CATV SERVICE.

Work will commence on or about 8-1-16 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.

[Signature] **PERMIT COORDINATOR**
Signature of Applicant - Title

7-7-16

Date

JURISDICTION:
CITY OF STOCKTON

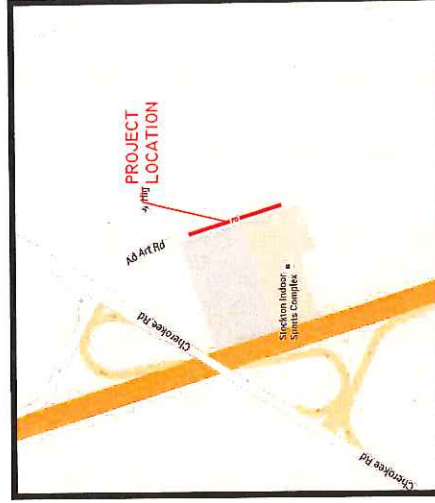


BORE & TRAFFIC FOR WORKPLACE PROJECT

JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA

DRAWING INDEX

NUMBER	SHEET	TITLE
1	T-1	TITLE SHEET
2	G-1	GENERAL NOTES
3 - 4	C-1 THRU C-2	CONSTRUCTION DRAWINGS
5 & 6	CD-1 & CD-2	CONSTRUCTION DETAILS
7 - 10	TR-1 THRU TR-4	TRAFFIC CONTROL



PROJECT LOCATION

N.T.S.



Know what's below.
Call before you dig

SEFNCO COMMUNICATIONS
CHRIS PERRY
925-783-4877
cperry@sefnco.com

Sagebrush Engineering
communication consultants
415 BEATRICE CT -STE G
BRENTWOOD, CA
94513
209-365-3598
bsaurflinger0014@gmail.com

COMCAST BLDG TIE
JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA

REV	DATE	BY	DESCRIPTION
0	7/16/16	SK	ISSUED FOR REVIEW

SHE JOB NO.:	ATT JOB NO.:	DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
				7/16/16	N.T.S.

SHEET #:
T-1
1 OF 10 SHEETS



1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS, AND GENERAL REQUIREMENTS.

- [illegible]

1. THE METHOD OF CONSTRUCTION SHALL BE BY HORIZONTAL BORING UNLESS OTHERWISE APPROVED BY THE CITY.

2. (N) CHDT SHALL BE INSTALLED ON ALL OPEN TRENCHING UNLESS SHOWN OTHERWISE.

4. FOR OPEN CUT TRENCHING THE FOLLOWING MINIMUM CLEARANCES SHALL APPLY:
- a. A MINIMUM HORIZONTAL CLEARANCE AT ALL CROSSINGS SHALL BE MAINTAINED BETWEEN OVERHEAD CONDUITS AND OTHER EXISTING UTILITIES. A MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PROPOSED CONDUITS AND EXISTING UTILITIES.
- b. MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN PROPOSED CONDUITS AND EXISTING OVERHEAD LINES.
- c. MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN PROPOSED CONDUITS AND EXISTING MANHOLE BOXES AND STORM DRAIN MANS THAT RUN PARALLEL, UNLESS APPROVED BY THE CITY ENGINEER.
- d. MINIMUM CLEARANCE SHALL BE MAINTAINED ABOVE ALL UTILITIES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER WHEN AT THE SAME ELEVATION AS WATER MAINS.
- e. MINIMUM CLEARANCE SHALL BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE CITY. CLEARANCES ALSO APPLY TO FIRE HYDRANTS.

5. THE FOLLOWING MINIMUM CLEARANCES (FROM REAMED PERIMETER OF THE BORE HOLE) TO THE OUTER PERIMETER OF THE UTILITY SHALL BE USED AS A GUIDELINE. THE GEOTECHNICAL REPORT CONCLUSIONS & RECOMMENDATIONS OR THE CITY'S DETERMINATION SHALL BE FOLLOWED.

- (8) USE THE FOLLOWING CHART FOR MINIMUM DEPTH OF COVER (IN THE PAVEMENT & SIDEWALK CROSSING) FOR ALL TYPES OF UTILITY CROSSINGS UNDER PAVEMENT, SANITARY SEWER, WATER, ELECTRICAL, GAS, ETC. CROSSINGS SHALL BE AT LEAST 36" DEEP.

BORE DIAMETER	MIN. DEPTH OF COVER	MIN. CLEARANCE FROM CROSSING UTILITIES
6" OR LESS	4'	3'
14" OR LESS	6'	5'
24" OR LESS	10'	7'
48" OR LESS	25'	15'

6. AT THE END OF EACH DAY, CONDUIT CAPS SHALL BE PLACED ON ALL VACANT DUCTS. DUCT IN BUILDING ENTRANCES, NEW OR EXISTING SHALL BE SEALED PRIOR TO AND AFTER PLACEMENT OF FIBER OPTIC CABLE IS COMPLETED, INCLUDING DUCTS ON WALL WHERE CORING IS REQUIRED.
7. THE REMOVAL, STORAGE, AND REPLACEMENT OF ALL SHRUBBERY SHALL BE THE RESPONSIBILITY OF CONTRACTOR. ALL LANDSCAPING SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS.

8. TRAFFIC SIGNAL CIRCUITS AND INTERCONNECT CONDUITS MAY NOT BE SHOWN. CONTRACTOR SHALL LOCATE ALL TRAFFIC SIGNAL CIRCUITS AND INTERCONNECT CONDUITS PRIOR TO ANY TRENCHING OR BORING. PROVIDE 5' SEPARATION BETWEEN NEW CONDUITS AND ALL TRAFFIC SIGNAL AND INTERCONNECT CONDUITS AND 5' FROM ALL TRAFFIC SIGNAL CONTROLLERS AND PULL BOXES. ALL TRAFFIC SIGNAL AND INTERCONNECT CONDUITS SHALL BE REPLACED BY THE CONTRACTOR TO CITY SPECIFICATIONS. NOTIFY CITY INSPECTOR IMMEDIATELY AND TRAFFIC DEPARTMENT 48 HOURS PRIOR TO ANY WORK IN THESE AREAS.

9. APPROXIMATE LOCATIONS OF SPICE BOXES ARE SHOWN ON THE PLANS. EXACT FINAL LOCATION OF SPICE BOXES SHALL BE DETERMINED IN THE FIELD WITH CITY APPROVAL AFTER ALL EXISTING UTILITIES IN THE AREA OF WORK HAVE BEEN LOCATED.

10. TOPS OF SPICE BOXES SHALL BE SET FOR FUTURE SIDEWALK INSTALLATION IN SPECIFIED LOCATIONS. ALL SPICE BOXES SHALL BE PLACED WITH PEDESTRIAN TRAFFIC SAFETY IN MIND UNTIL ALL WORK IS COMPLETE.

111. THE CITY WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS. ACVO

CITY ARBORIST NOTES:

- [illegible]

WHEN THE TREE DIAMETER AT 4.5 FEET IS:	6" - 9" 10" - 14" 15" - 19" OVER 20"	TRENCHING WILL BE REPLACED BY TUNNELING AT THIS MIN. DISTANCE FROM THE FACE OF THE TREE IN ANY DIRECTION:	5 FEET 10 FEET 12 FEET 15 FEET
---	---	--	---

DEPTH OF TUNNELING	
TREE DIAMETER	DEPTH OF TUNNEL
9" OR LESS	2.5'
10"-14"	3.0'
15"-19"	3.5'
20" OR MORE	4.0'

ABBREVIATIONS

[illegible]


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 Consulting Engineers
 415 BEATRICE CT. STE G
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 209-365-3598
bsaurtuner0014@gmail.com

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consultation engineers
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COMCAST BLDG TIE
JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA



NORTH AD ART RD

COMCAST TO PLACE (N) RISER (25'±) —

TEMP 3'X5' BORE PIT

LEGEND:

JURISDICTION:
CITY OF STOCKTON

BUILD FOOTAGE

(N) UNDERGROUND = 7688

**Know what's below.
Call before you dig.**

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SHEET #:

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3 OF 10 SHEETS



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[illegible]

COMCAST BLDG TIE
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STOCKTON, CA

SBE JOB NO.:	-
ATT JOB NO.:	-
DESIGNED BY:	BRD
DRAWN BY:	BRD
DATE:	7/6/16
SCALE:	1" = 40'

SHEET #:

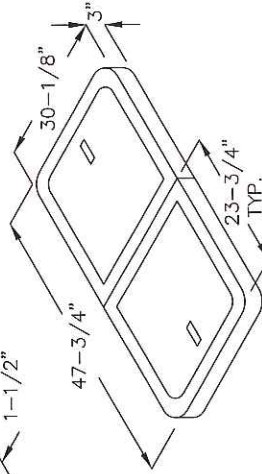
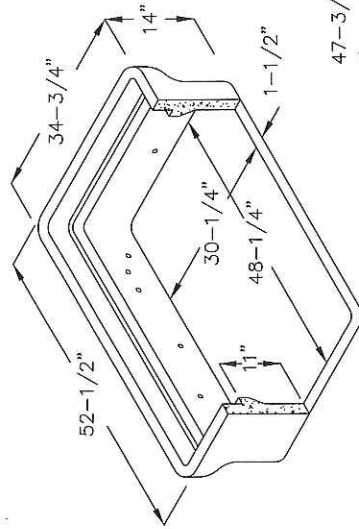
C-2

4 OF 10 SHEETS

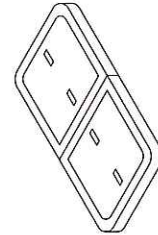


P48 TELEPHONE HANDHOLE

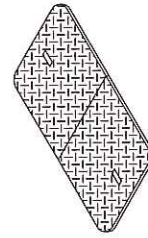
30-1/4" x 48-1/4" x 11"
(INSIDE DIMENSIONS)



A HIGH DENSITY REINFORCED CONCRETE
PULL AND JUNCTION BOX WITH END KNOCKOUTS
PROVIDED ON EXTENSION FOR FLEXIBILITY OF
INSTALLATION. SPECIFICALLY DESIGNED FOR
TELEPHONE JUNCTION WORK.



P48D2
LID



P48-62D
COVER

CATALOG NUMBER	PRODUCT	DESCRIPTION	APPROX. WT. (LBS.)
P48	BOX	REINFORCED CONCRETE	382
P48D2	LID	2 PIECE REINFORCED CONCRETE	339
P48-62D	COVER	2 PIECE STEEL CHECKER PLATE	155
P48XTD	EXTENSION	10" HIGH REINFORCED CONCRETE	280
P48SL	SLAB	REINFORCED CONCRETE	417

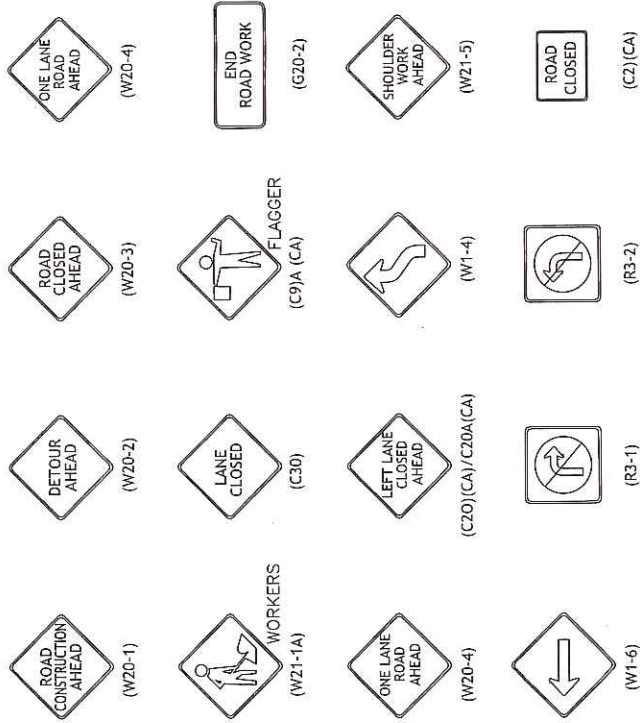
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REV	DATE	BY	DESCRIPTION
1	7/24/16	BD	ISSUED FOR REVIEW
2			
3			
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10			

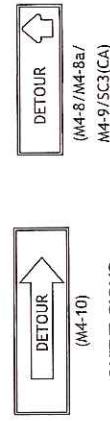
COMCAST BLDG TIE
JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA

SHEET NO.:	ATT. JOB NO.:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	SCALE:
		BD	BD	BD	7/24/16
					N.T.S.
SHEET #:					CD-2
					6 OF 10 SHEETS

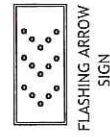
WARNING SIGNS AND GUIDE SIGNS



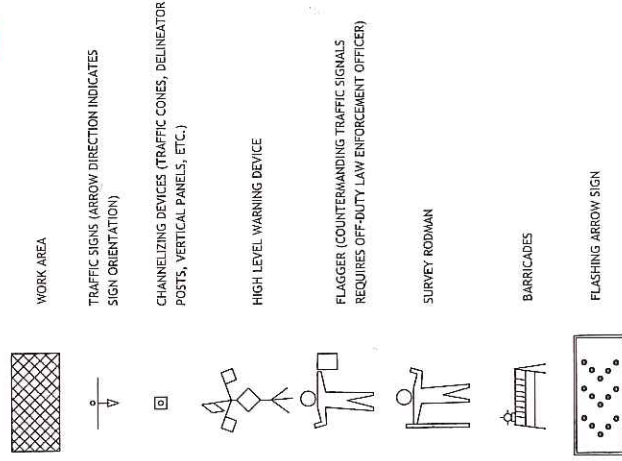
WARNING SIGNS



GUIDE SIGNS



SYMBOLS AND LEGENDS



NOTES:

1. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE "WATCH MANUAL" & "MUTCD" - CALIFORNIA
2. FOR NIGHT TIME USE, REFER TO "WARNING LIGHT APPLICATIONS DURING NIGHT TIME OPERATIONS"
3. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES (SEQUENTIAL ARROWS, BARRICADES, STEEL PLATES) MAY BE REQUIRED.
4. ALL LIGHT BOARDS & LIGHTED SIGNAGE TO BE SOLAR POWERED
5. DEVICES PER "MUTCD" - CALIFORNIA
6. TRAFFIC CONTROL REQUIRED AT ALL WORK LOCATIONS IN STREET INCLUDING BORE PITS, POT HOLES AND EXCAVATION TRENCHES.

NOTE: POST R9-11A OR R9-3A SIGNS IF SIDEWALK IS RESTRICTED.

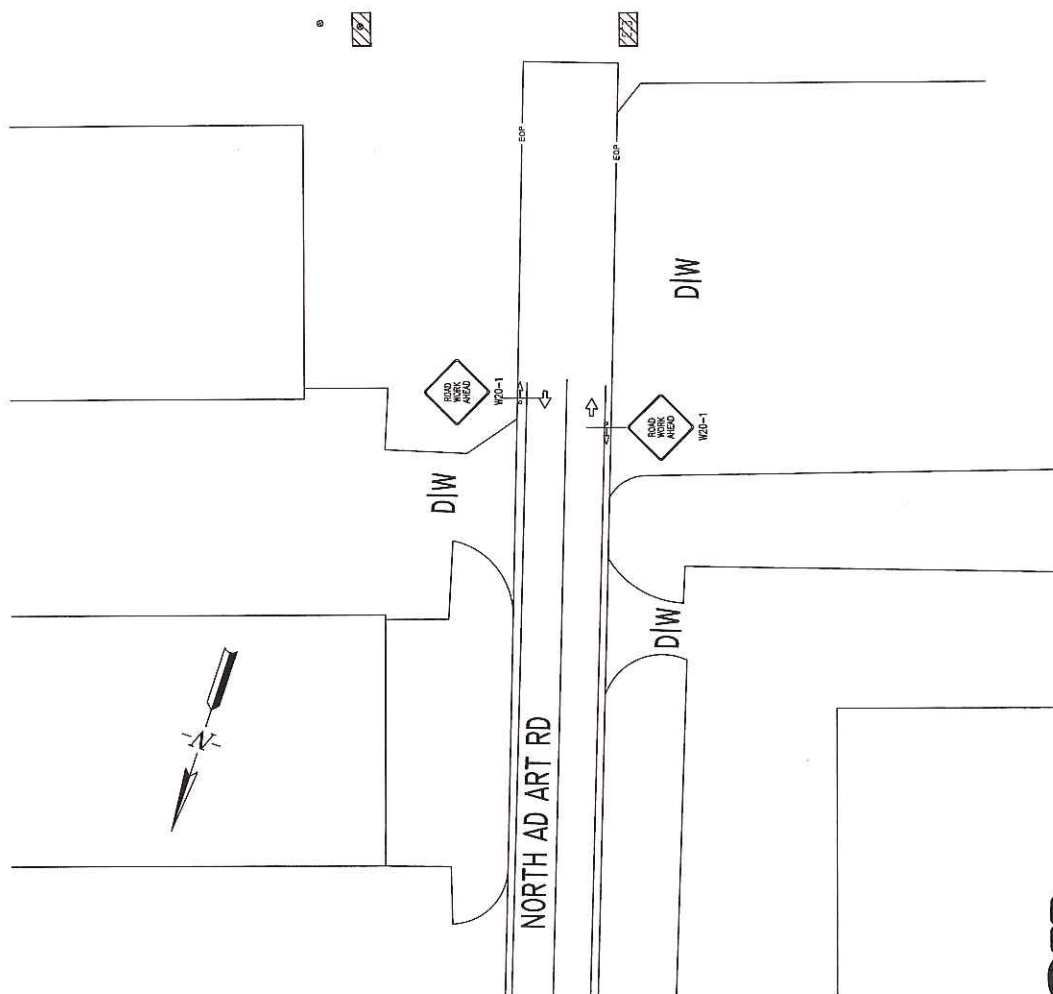
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COMCAST BLDG TIE
JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA

SHEET #:
TR-1
7 OF 10 SHEETS



**Know what's below.
Call before you dig**



NOTES:

- NOTES:
1.) MAINTAIN DRIVEWAY ACCESS AT ALL TIMES
2.) PLACE TEMP NO PARKING SIGNS AT LEAST
72 HRS PRIOR TO WORK

CALIFORNIA MUTCD 2014
TABLE 6C-1 RECOMMENDED ADVANCE WARNING SIGN SPACING

DISTANCE BETWEEN SIGNS**					
	ROAD TYPE	A	B	C	
URBAN - 25 MPH OR LESS***	URBAN - MORE THAN 25 MPH TO 40 MPH***	100 FEET	100 FEET	100 FEET	
	URBAN - MORE THAN 40 MPH TO 45 MPH***	250 FEET	250 FEET	250 FEET	
	URBAN - MORE THAN 45 MPH TO 50 MPH***	350 FEET	350 FEET	350 FEET	
	RURAL	500 FEET	500 FEET	500 FEET	
EXPRESSWAY/FREEWAY		1000 FEET	1500 FEET	2,540 FEET	

** THE COLUMN HEADINGS A, B AND C ARE THE MINIMUMS SHOWN IN FIGURES 8-1 THROUGH 8-7.

*** THE COLUMN HEADINGS A, B AND C ARE THE MINIMUMS SHOWN IN FIGURES 8-1 THROUGH 8-7.

**** A WHITE OVAL SIGN THAT IS QUARTER TO A HALF DIAMETER SHALL BE USED FOR ALL PROPOSED URBAN ROAD TTC ZONE.

***** POSTED SPEED LIMIT, 60%-65% MIN. VEHICLE STOPPED MUST BE MARKED WITH, AS OTHER ANTICIPATED OPERATING SPEEDS IN AREA.

** THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6-4-4, 6-4-5, AND 6-4-6. THE DIMENSION A IS THE DISTANCE FROM THE TRANSITION POINT OF RESTRICTION TO THE FIRST SINK. THE DIMENSION B IS THE DISTANCE BETWEEN THE FIRST AND SECOND SINKS. THE DIMENSION C IS THE DISTANCE BETWEEN THE SECOND AND THIRD SINKS. THE "FIRST SINK" IN THE SIGN IN A THREE-SINK SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SINK" IS THE SIGN THAT IS FURTHEST AWAY FROM THE TTC ZONE.

POSTED SIGN | LIMIT OFF-ROAD WITH RESIDENTIAL SPEED PRIOR TO WORK STARTING. OR OTHER ANTICIPATED OPERATING SPEED IN HIGH.

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COMCAST BLDG TIE
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STOCKTON, CA

SHEET #: **TR**
8 OF 10

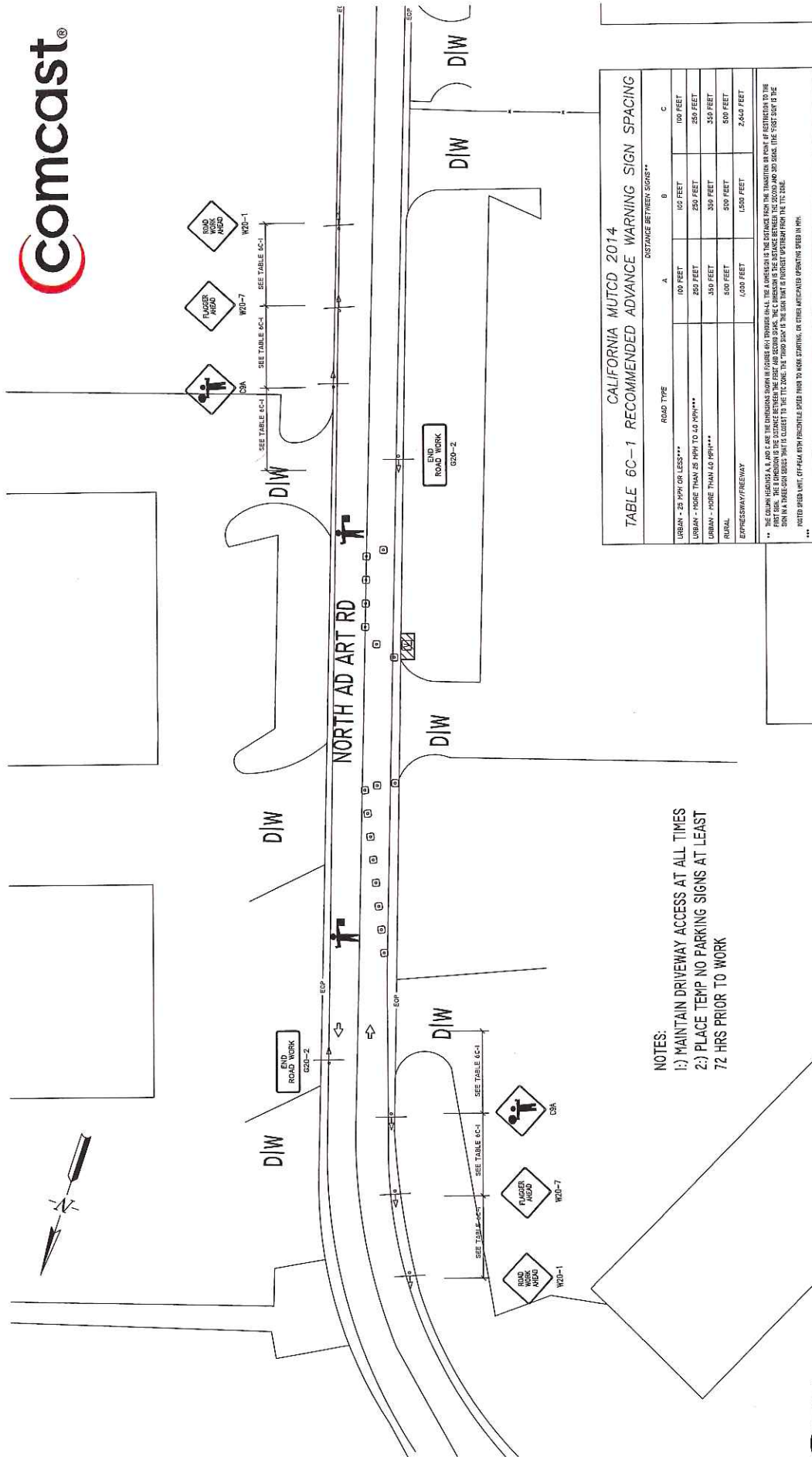


TABLE 6C-1 CALIFORNIA MUTCD 2014
RECOMMENDED ADVANCE WARNING SIGN SPACING

DISTANCE BETWEEN SIGNS**

ROAD TYPE	A	B	C
URBAN - 25 MPH OR LESS**	100 FEET	100 FEET	100 FEET
URBAN - MORE THAN 25 MPH TO 40 MPH**	250 FEET	250 FEET	250 FEET
URBAN - MORE THAN 40 MPH**	300 FEET	300 FEET	300 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1000 FEET	1000 FEET	2000 FEET

** THE SIGN PLACEMENT A, B, AND C ARE THE DISTANCES FROM THE SIGN TO THE WARNING SIGN. THE DISTANCE FROM THE WARNING SIGN TO THE SIGN IS THE DISTANCE FROM THE SIGN TO THE WARNING SIGN. THE DISTANCE FROM THE SIGN TO THE WARNING SIGN IS THE DISTANCE FROM THE SIGN TO THE WARNING SIGN. THE DISTANCE FROM THE SIGN TO THE WARNING SIGN IS THE DISTANCE FROM THE SIGN TO THE WARNING SIGN.

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NOTES:
1.) MAINTAIN DRIVEWAY ACCESS AT ALL TIMES
2.) PLACE TEMP NO PARKING SIGNS AT LEAST
72 HRS PRIOR TO WORK



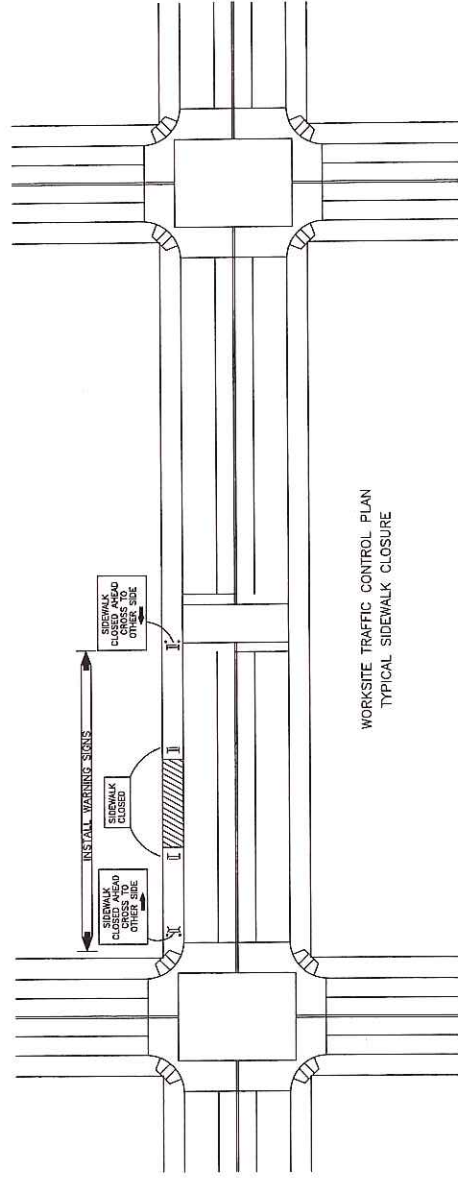
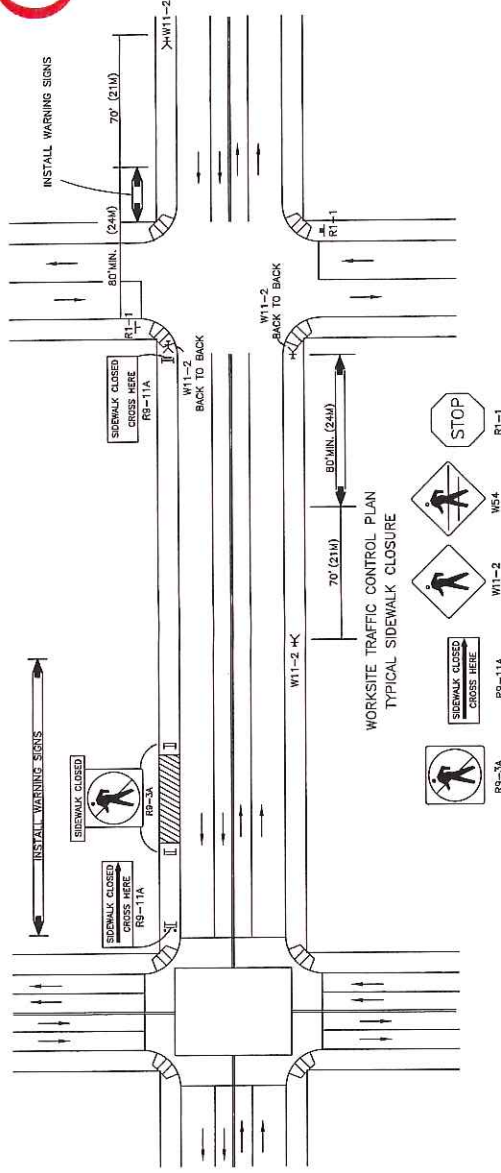
Know what's below.
Call before you dig

Sagebrush Engineering
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DATE	BY	DESCRIPTION
7/24/16	BD	SHARED FOR REVIEW

COMCAST BLDG TIE
JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA

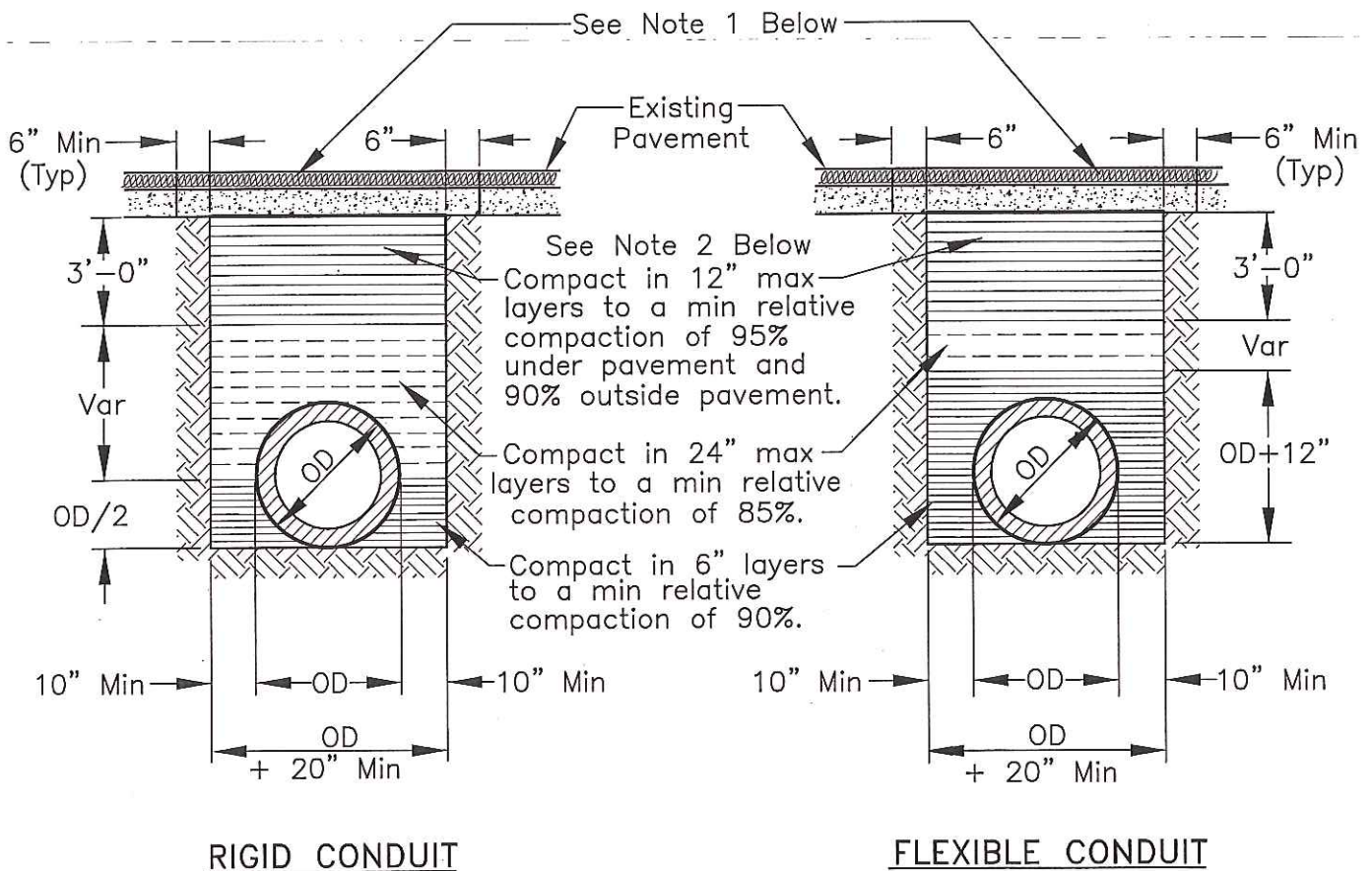
SHEET #:
TR-3
9 OF 10 SHEETS



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BRENTWOOD, CA 94513
209-365-3598
dburlinger0014@gmail.com

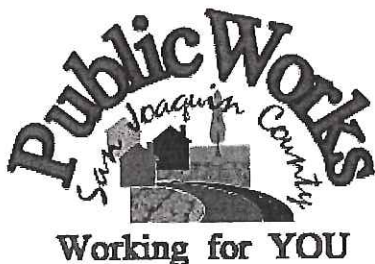
COMCAST BLDG TIE
JOB ID# 233941
3295 NORTH AD ART RD
STOCKTON, CA

SHEET #:		SHEET	
TR-4		10 OF 10 SHEETS	
SHEET NO.:	ATT. NO.:	DATE:	SCALE:
DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
7/26/16	7/26/16		



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:

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 within 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.