



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-1803605
Date Issued: 10/12/2018
Start Date: 10/15/2018
Exp. Date: 02/01/2019
Project No: PWP730079
Quad: SE

UE/CR/PM NO:A01E5CJ

ENCROACHMENT PERMIT

To: AT & T - FRESNO
5555 E. OLIVE RM#300III
FRESNO, CA 93727

Encroachment Type:

Trench			
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Location:

W/S JACK TONE RD CONNECTOR(JACK TONE RD TO HWY 88)

In compliance with your request of 10/12/2018, 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

FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$868.82

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, 3339, 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.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 9/18/2018 9/20/18

To: San Joaquin County
Department of Public Works

AT&T / VCC PERMITS DESK
(Applicant Name)

5555 E. Olive Ave
(Mailing Address)

Fresno, CA 93727
(City, State, Zip Code)

(559) 454-4900 g26977@att.com
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB # 730079 REF # _____
APN _____ CR # _____
EXP. DATE _____
VALID _____ TO _____ DRIVEWAYS:
STREET Jack Tone Rd * _____
AREA Stockton QUAD NE * _____
TYPE _____ * _____
FORMS _____
NOTES _____

Sketch (Detailed plans may be submitted)

FROM AT&T RISER POLE, P.3, TRENCH 15' IN DIRT TO PLACE 18' (3)-1.25" INDU TO NEW FIBER MANHOLE, MH.1(N). FROM MH.1(N) TRENCH 670' TO PLACE 670' (3)-1.25" INDU TO NEW FIBER MANHOLE, MH.2(N). FROM MH.2(N), TRENCH A TOTAL OF 466' AND DIRECTIONAL BORE 60' TO INSTALL A TOTAL OF 526' (3)-1.25" INDU TO SUBSCRIBER SB. PLACE A GROUND BED CONSISTING OF (3)-8' GROUND RODS AND #6 GROUND WIRE AT MH.1(N). SEE ATTACHED PERMIT AND TRAFFIC CONTROL PLAN DRAWINGS FOR AT&T JOB A01E5CJ.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the SW side of E JACK TONE RD approximately 350' (feet) mile E of HWY 88, by performing the following work (description of work):
TRENCH AND DIRECTIONAL BORE TO INSTALL 1214' TOTAL OF (3)-1.25" INDU, AND 2 FIBER MANHOLES, 1 WITH A GROUND BED.

Work will commence on or about 10/15/2018 for approximately 30 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.

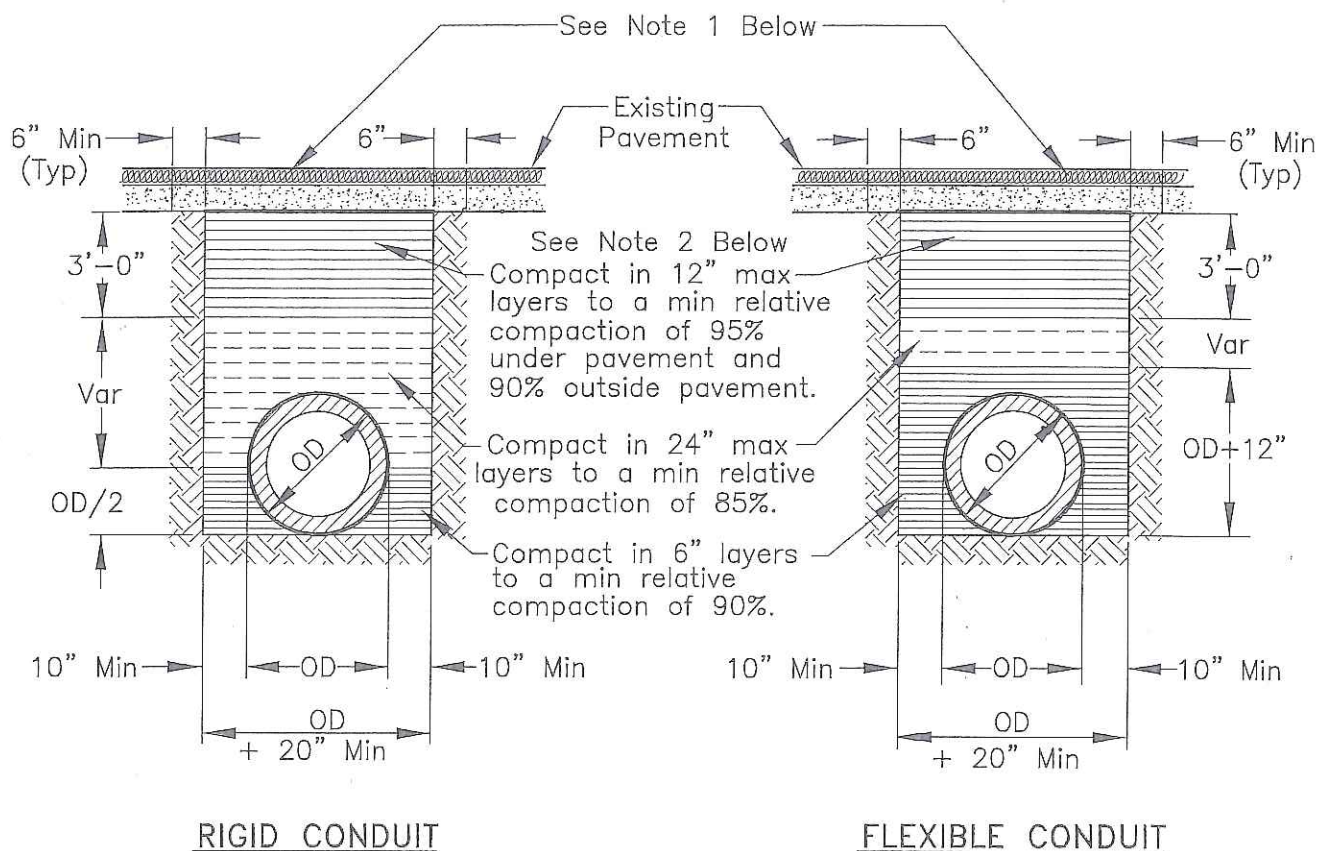
Brian E. Schuff Engineering
Administrator
Signature of Applicant - Title

9/20/2018
Date

SPECIAL CONDITIONS FOR
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. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by AT&T, including any facilities that are abandoned in place. AT&T 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 AT&T's expense. (Streets and Highways Code Section 1463)
10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
11. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.

12. 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.
13. 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.
14. No pavement cuts.
15. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
16. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
17. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
18. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
19. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
20. The contractor shall not conduct construction operations in rain or heavy fog conditions.



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

WORK LOCATION: 18980 N ST RTE 88, LOCKEFORD
(SAN JOAQUIN COUNTY), CA 93237



ISSUE	DATE
1	9/2018



SCOPE OF WORK:

THIS JOB PROPOSES THE FOLLOWING WORK IN SAN JOAQUIN COUNTY RIGHT OF WAY:

FROM AT&T RISER POLE, P.3, TRENCH 15' IN DIRT TO PLACE 18' (3)-1.25" INDU TO NEW FIBER MANHOLE, MH.1(N). FROM MH.1(N) TRENCH 670' TO PLACE 670' (3)-1.25" INDU TO NEW FIBER MANHOLE, MH.2(N). FROM MH.2(N), TRENCH A TOTAL OF 466' AND DIRECTIONAL BORE 60' TO INSTALL A TOTAL OF 526' (3)-1.25" INDU TO SUBSCRIBER SB. PLACE A GROUND BED CONSISTING OF (3)-8' GROUND RODS AND #6 GROUND WIRE AT MH.1(N).

CONSTRUCTION NOTE: USE SDR-11 INNERDUCT FOR BURIED APPLICATIONS.

GENERAL CONSTRUCTION NOTES:

EXTRA CAUTION SHOULD BE TAKEN WHEN DIGGING AND PLACING NEW FACILITIES FOR AT&T CALIFORNIA, AS OTHER UTILITIES MAY BE IN CLOSE PROXIMITY OF THE WORK LOCATION.

TUNNEL UNDER ALL CURBS AND GUTTERS.

ALL BENDS WILL BE A 6' RADIUS UNLESS OTHERWISE NOTED.

RESTORE AREA TO LIKE OR BETTER CONDITION.

NOTIFY SAN JOAQUIN COUNTY 72 HRS BEFORE STARTING WORK OPERATIONS. ADHERE TO ALL PERMIT REQUIREMENTS.

LEGEND:			
	TRAFFIC SIGNAL	EOP	EDGE OF PAVEMENT
	STREETLIGHT	EOR	EDGE OF ROADWAY
	FIRE HYDRANT	CPC	TYPE C-40 PLASTIC CONDUIT
	CITY MONUMENT	FOC	FACE OF CURB
	JOINT UTILITY POLE	BOW	BACK OF WALK
	MANHOLE	LOG	LIP OF GUTTER
	SIGN	—S—	SEWER
	BOLLARD	—C/L—	CENTER LINE
	CABINET	—E—	ELECTRICAL
SW-XXXX	ELECTRIC SWITCH	—T—	AT&T CONDUIT
TS	TRAFFIC SIGNAL	—J/T—	ELECT./AT&T JOINT TRENCH
SB	SERVICE BOX	—G—	GAS
		—W—	WATER
			WATER VALVE

CALL USA TOLL FREE
48 HOURS PRIOR TO DIGGING
FOR ALL SUB-STRUCTURE
LOCATIONS
800-227-2600

AT&T ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SUBSTRUCTURE INFORMATION HEREIN PROVIDED. THE USER ASSUMES RESPONSIBILITY FOR VERIFYING SUBSTRUCTURE LOCATIONS BEFORE EXCAVATING AND ASSUMES ALL LIABILITY FOR DAMAGE TO TELEPHONE FACILITIES AS A RESULT OF SUCH EXCAVATION. CALL UNDERGROUND SERVICE ALERT ON: (800) 227-2600 TWO DAYS BEFORE DIGGING IN PROXIMITY TO TELEPHONE PLANT.

FAFL Network Services
A Fujikura Business

THIS JOB WAS ENGINEERED AND DRAWN BY AFL NETWORK SERVICES UNDER CONTRACT TO AT&T. FOR QUESTIONS AND ASSISTANCE ON THIS JOB PLEASE CALL ENGINEER AS NOTED IN TITLE BOX.

CONST ARC _____ COMP _____
GEO/CO UE26
EXCH LKFRCA11
ENGR McDOWELL TEL (209)578-7155
ENGR ARC VOKDLEG00
TYPE OF CONST
PERMIT
RD/EST NO A01E5CJ
DWG 1 OF 5 P504

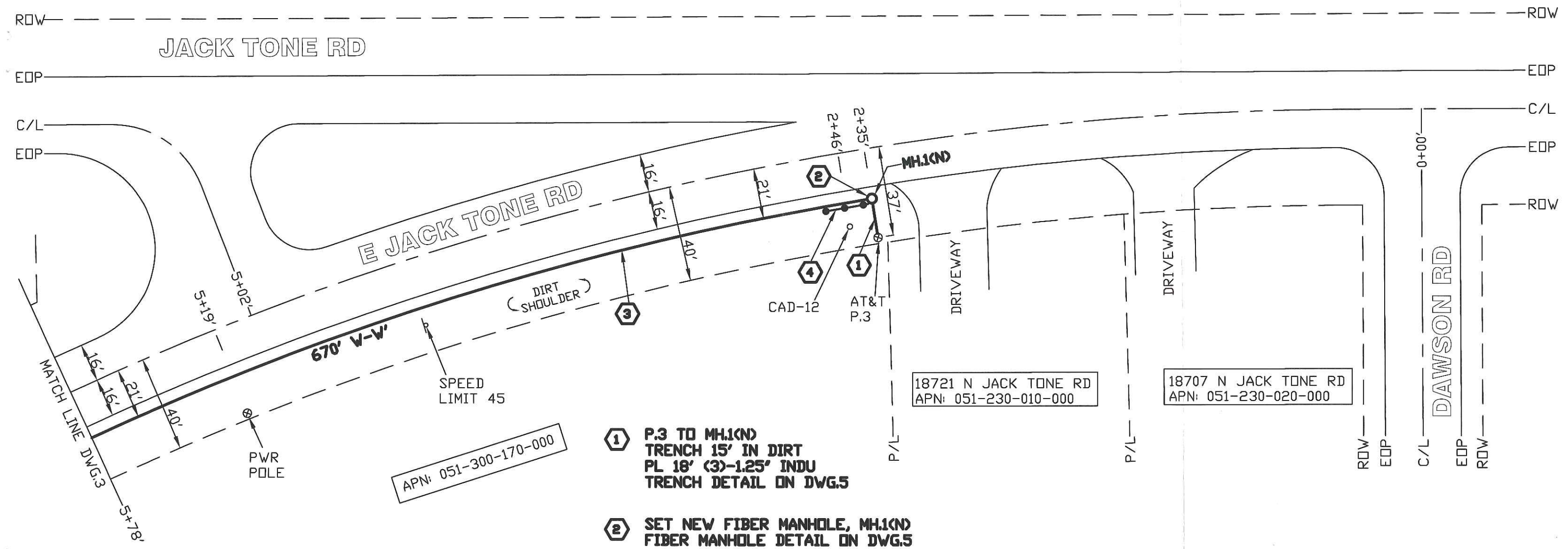
CALL **USA** TOLL FREE
48 HOURS PRIOR TO DIGGING
FOR ALL SUB-STRUCTURE
LOCATIONS
800-227-2600

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SUBSTRUCTURE INFORMATION HEREIN PROVIDED. THE USER ASSUMES
RESPONSIBILITY FOR VERIFYING SUBSTRUCTURE LOCATIONS BEFORE
EXCAVATING AND ASSUMES ALL LIABILITY FOR DAMAGE TO TELEPHONE
FACILITIES AS A RESULT OF SUCH EXCAVATION. CALL UNDERGROUND
SERVICE ALERT ON: (800) 227-2600 TWO DAYS BEFORE DIGGING IN
PROXIMITY TO TELEPHONE PLANT.

CONSTRUCTION NOTE: USE SDR-11
INNERDUCT FOR BURIED APPLICATIONS.

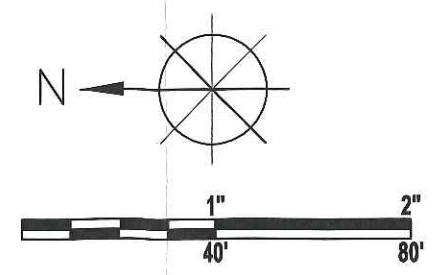


ISSUE	DATE
1	9/2018



LEGEND:	
	TRAFFIC SIGNAL
	STREETLIGHT
	FIRE HYDRANT
	CITY MONUMENT
	JOINT UTILITY POLE
	MANHOLE
	SIGN
	BOLLARD
	CABINET
	ELECTRIC SWITCH
	TRAFFIC SIGNAL
	SERVICE BOX
	EDGE OF PAVEMENT
	EDGE OF ROADWAY
	TYPE C-40 PLASTIC CONDUIT
	FACE OF CURB
	BACK OF WALK
	LIP OF GUTTER
	SEWER
	CENTER LINE
	ELECTRICAL
	AT&T CONDUIT
	AT&T BURIED (EXISTING)
	GAS
	WATER
	WATER VALVE

- 1 P.3 TO MH.1(N)
TRENCH 15' IN DIRT
PL 18' (3)-1.25' INDU
TRENCH DETAIL ON DWG.5
- 2 SET NEW FIBER MANHOLE, MH.1(N)
FIBER MANHOLE DETAIL ON DWG.5
- 3 MH.1(N) TO MH.2(N) (DWG.3)
TRENCH 670' IN DIRT
PL 670' (3)-1.25' INDU
(343' THIS DWG.)
MH.1(N) TO MH.2(N) W-W'=670'
TRENCH DETAIL ON DWG.5
- 4 SAME TRENCH AS INDU
PLACE GROUND BED CONSISTING OF (3)-8'
GROUND RODS AND #6 GROUND WIRE.
MH.1(N) GROUND BED DETAIL ON DWG.5



CONST ARC _____ COMP _____
GEO/CO UE26
EXCH LKFRCA11
ENGR McDOWELL TEL (209)578-7155
ENGR ARC VOKDLEG00
TYPE OF CONST
PERMIT
RD/EST NO A01E5CJ
DWG 2 OF 5 P504

CALL

USA

TOLL FREE

48 HOURS PRIOR TO DIGGING

FOR ALL SUB-STRUCTURE

LOCATIONS

800-227-2600

AT&T ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SUBSTRUCTURE INFORMATION HEREIN PROVIDED. THE USER ASSUMES RESPONSIBILITY FOR VERIFYING SUBSTRUCTURE LOCATIONS BEFORE EXCAVATING AND ASSUMES ALL LIABILITY FOR DAMAGE TO TELEPHONE FACILITIES AS A RESULT OF SUCH EXCAVATION. CALL UNDERGROUND SERVICE ALERT ON: (800) 227-2600 TWO DAYS BEFORE DIGGING IN PROXIMITY TO TELEPHONE PLANT.

CONSTRUCTION NOTE: USE SDR-11 INNERDUCT FOR BURIED APPLICATIONS.



ISSUE	DATE
1	9/2018

- 1

SET NEW FIBER MANHOLE, MH.2(N)

FIBER MANHOLE DETAIL ON DWG.5
- 2

MH.2(N) PT-A (DWG.4)

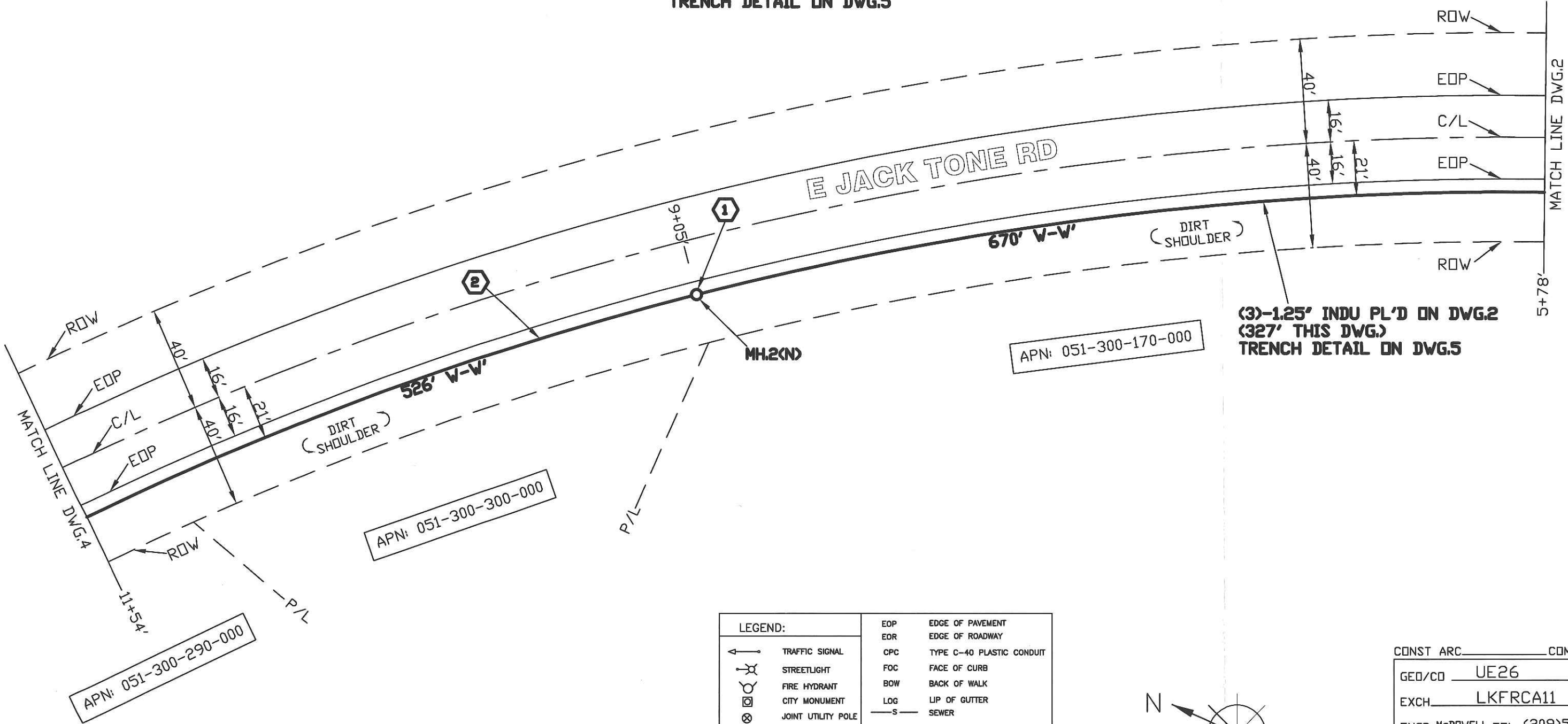
TRENCH 458' IN DIRT

PL 458' (3)-1.25' INDU

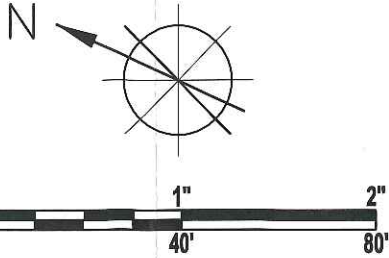
(249' THIS DWG.)

MH.2(N) TO SUB SB(E) (DWG.4) W-W'=526'

TRENCH DETAIL ON DWG.5



LEGEND:			
	TRAFFIC SIGNAL	EOP	EDGE OF PAVEMENT
	STREETLIGHT	EOR	EDGE OF ROADWAY
	FIRE HYDRANT	CPC	TYPE C-40 PLASTIC CONDUIT
	CITY MONUMENT	FOC	FACE OF CURB
	JOINT UTILITY POLE	BOW	BACK OF WALK
	MANHOLE	LOG	LIP OF GUTTER
	SIGN	S	SEWER
	BOLLARD	C/L	CENTER LINE
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SW-XXXX	ELECTRIC SWITCH	T	AT&T CONDUIT
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SB	SERVICE BOX	G	GAS
		W	WATER
		Δ	WATER VALVE



CONST ARC

COMP

GEO/CO

UE26

EXCH

LKFRCA11

ENGR McDOWELL TEL (209)578-7155

ENGR ARC VOKDLEG00

TYPE OF CONST

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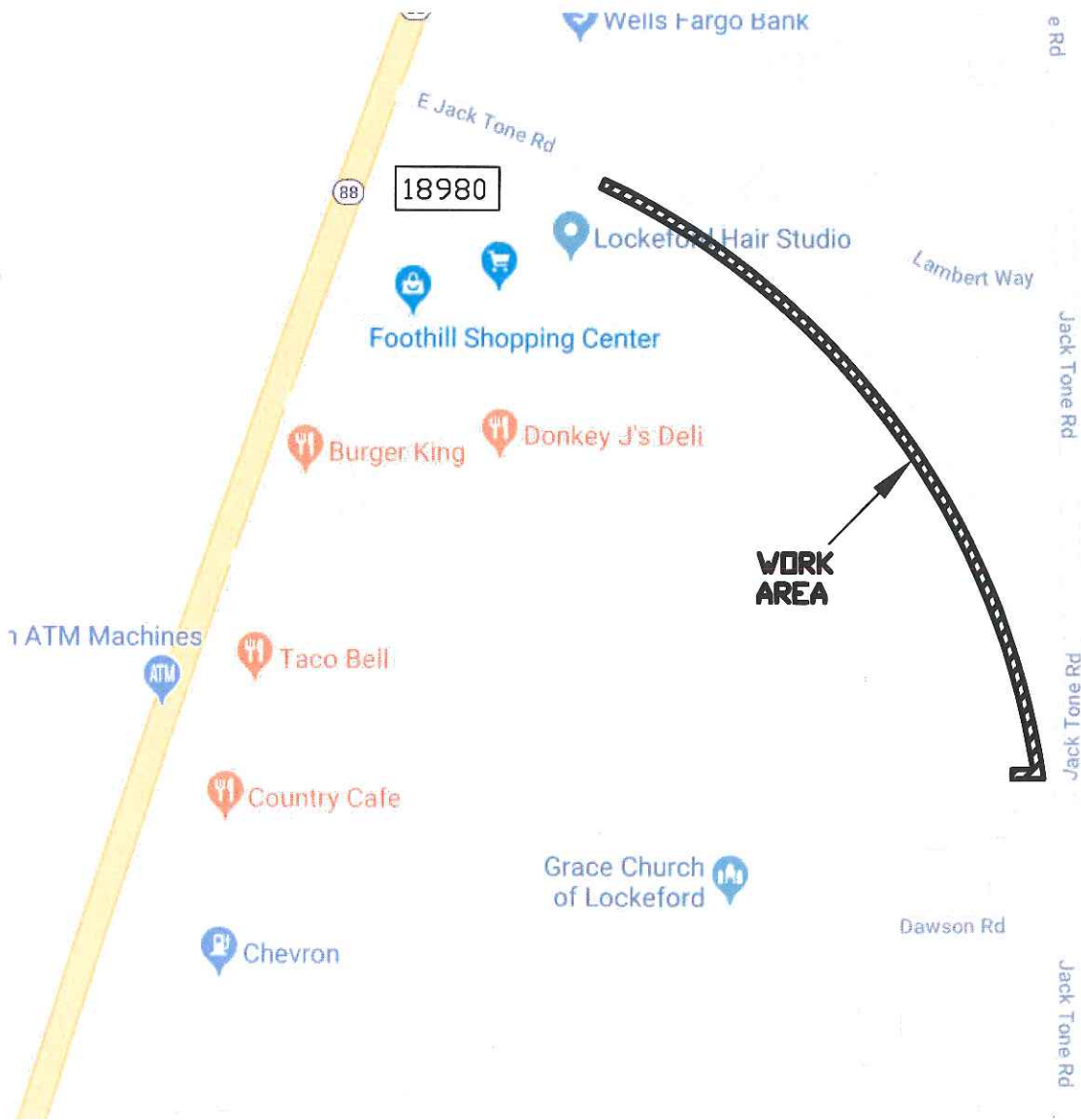
DWG 3 OF 5

P504

WORK LOCATION: 18980 N ST RTE 88, LOCKEFORD (SAN JOAQUIN COUNTY), CA 93237



ISSUE	DATE
1	9/2018



-TABLE 6C-2 2014 CALIFORNIA MUTCD-
-STOPPING SIGHT DISTANCE
AS A FUNCTION OF SPEED-

SPEED* (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

* POSTED SPEED, OFF-PEAK
85TH-PERCENTILE SPEED
PRIOR TO WORK STARTING OR THE
ANTICIPATED OPERATING SPEED

SCOPE OF WORK:

THIS TRAFFIC CONTROL PLAN IS FOR THE FOLLOWING
ROAD ENCROACHMENTS IN SAN JOAQUIN COUNTY RIGHT OF WAY:

SHOULDER CLOSURE ON E JACK TONE RD, REQUIRED FOR EQUIPMENT
STAGING AND TRENCH/DIRECTIONAL BORE WORK AS SHOWN ON ASSOCIATED
PERMIT DRAWINGS.

-TABLE 6C-3 2014 CALIFORNIA MUTCD-
-TAPER LENGTH CRITERIA FOR
TEMPORARY TRAFFIC CONTROL ZONE-

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5 L
SHOULDER TAPER	AT LEAST 0.33 L
ONE LANE, TWO-WAY TRAFFIC TAPER	30 M (100FT) MAXIMUM
DOWNSTREAM TAPER	30 M (100FT) PER LANE

-TABLE 6C-4 2014 CALIFORNIA MUTCD-
-FORMULAS FOR DETERMINING TAPER LENGTH-

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR MORE	$L = WS$

WHERE: L= TAPER LENGTH IN METERS (FEET)
W= WIDTH OF OFFSET IN METERS (FEET)
S= POSTED SPEED LIMIT, OR OFF-PEAK
85TH-PERCENTILE SPEED PRIOR TO WORK
STARTING, OR THE ANTICIPATED OPERATING
SPEED IN KM/H (MPH)

GENERAL REQUIREMENTS:

1. ALL TRAFFIC CONTROL ELEMENTS SHALL COMPLY WITH THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), LATEST EDITION.
2. TRAFFIC CONTROL ELEMENTS SHOWN ON THE PLAN ARE SCHEMATIC; TRAFFIC CONTROL ELEMENTS SHALL BE PLACED IN VISIBLE LOCATIONS WITH SPACING NO LESS THE DIMENSIONS SHOWN ON THE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND DOCUMENTING THE INSTALLATION OF TRAFFIC CONTROL ELEMENTS AT ALL TIMES. TRAFFIC CONTROL TO REMAIN IN PLACE OVERNIGHT SHALL BE LIGHTED OR REFLECTIVE AS REQUIRED BY THE CA-MUTCD.
4. DEVIATIONS FROM THE PLAN SHALL BE DOCUMENTED BY THE CONTRACTOR AND SUBMITTED TO THE RESIDENT ENGINEER OR ENGINEER OF RECORD.
5. TRAFFIC CONTROL IS DESIGNED FOR A POSTED SPEED OF 45 M.P.H.. CONE SPACING SHALL BE NO MORE THAN 25 FEET ON TAPERS AND 50 FEET ON TANGENTS.
6. CONTRACTOR SHALL NOTIFY ALL EMERGENCY RESPONDERS , PUBLIC TRANSPORTATION PROVIDERS, AND THE CITY REPRESENTATIVES NO LESS THAN 48 HOURS PRIOR TO INSTALLATION OF TRAFFIC CONTROL.
7. CONES SHALL BE NO LESS THAN 28" TALL.

LEGEND:

	TYPE III BARRICADE W/SIGN (5'H x 4'W)		HIGH LEVEL WARNING DEVICE WITH SIGN (FLAGTREE)
	TYPE II BARRICADE W/O SIGN (3'H x 2'W)		FLAGGER
	28\"(11cm) TRAFFIC CONES W/13\"(5cm) REFLECTIVE SLEEVE FOR DAY/NIGHT USE OR DELINEATORS IF DAY USE ONLY		TOW AWAY NO STOPPING ____ TO ____ (SHOW HOURS)
	TRAFFIC CONE WITH CLIP ON SIGN		TOW AWAY NO STOPPING ANY TIME
	PROPOSED SIGN AND POST		WORK ZONE LIMITS
	SIGNALIZED INTERSECTION		DIRECTION OF TRAFFIC
	FLASHING ARROWBOARD		FACE OF CURB
			EDGE OF PAVEMENT

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

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (LOW SPEED)*25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (HIGH SPEED)*MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET
URBAN (HIGH SPEED)*MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1000 FEET	1000 FEET	1000 FEET

** THE COLUMN HEADING A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6H-1 THROUGH 6H-46. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGN. (THE THIRD SIGN IS THE FIRST ONE IN THE THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TTC ZONE.)



THIS JOB WAS ENGINEERED AND DRAWN BY AFL NETWORK SERVICES
UNDER CONTRACT TO AT&T. FOR QUESTIONS AND ASSISTANCE ON THIS
JOB PLEASE CALL ENGINEER AS NOTED IN TITLE BOX.

CONST ARC	COMP
GEO/CD	UE26
EXCH	LKFRCA11
ENGR McDOWELL TEL	(209)578-7155
ENGR ARC	VOKDLEG00
TYPE OF CONST	TRAFFIC CONTROL PLAN
RD/EST NO	A01E5CJ
DWG	1 OF 2 P504

TCP SETUP BASED ON CA 2014 MUTCD TA-3,
WORK ON SHOULDERS.



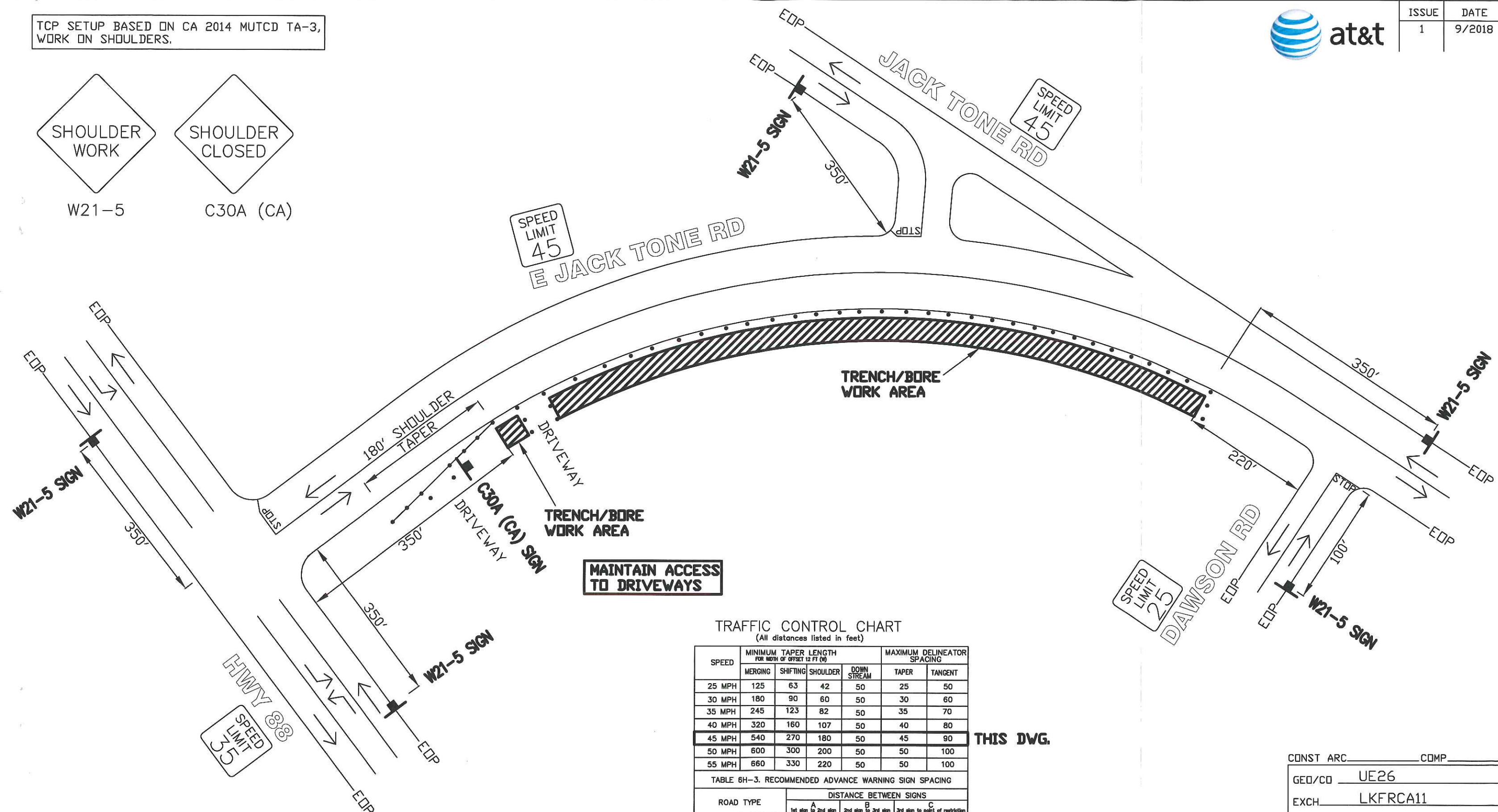
ISSUE	DATE
1	9/2018



W21-5



C30A (CA)



NOTE:
CONTRACTOR TO COORDINATE PLACEMENT OF
ADVANCE WARNING SIGNS IN CALTRANS RIGHT OF WAY
ON HWY 88 WITH CALTRANS. NO APPLICATION REQUIRED.
WORK COVERED UNDER BLANKET PERMIT.

TRAFFIC CONTROL CHART
(All distances listed in feet)

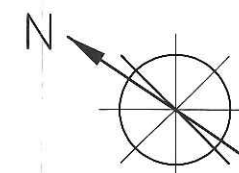
SPEED	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12 FT (W)				MAXIMUM DELINEATOR SPACING	
	MERGING	SHIFTING	SHOULDER	DOWN STREAM	TAPER	TANGENT
25 MPH	125	63	42	50	25	50
30 MPH	180	90	60	50	30	60
35 MPH	245	123	82	50	35	70
40 MPH	320	160	107	50	40	80
45 MPH	540	270	180	50	45	90
50 MPH	600	300	200	50	50	100
55 MPH	660	330	220	50	50	100

TABLE 6H-3. RECOMMENDED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A 1st sign to 2nd sign	B 2nd sign to 3rd sign	C 3rd sign to point of restriction
URBAN 25 MPH OR LESS	100	100	100
URBAN - MORE THAN 25 MPH TO 40	250	250	250
URBAN MORE THAN 40 MPH	350	350	350
RURAL	500	500	500
EXPWY/FREEWAY	1000	1500	2640

THIS DWG.

THIS DWG.



NOT TO SCALE

CONST ARC _____ COMP _____
GEO/CO UE26
EXCH LKFRCA11
ENGR McDOWELL TEL (209)578-7155
ENGR ARC VOKDLEG00
TYPE OF CONST
TRAFFIC CONTROL PLAN
RD/EST NO A01E5CJ
DWG 2 OF 2 P504

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.