



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-1901149
Date Issued: 04/17/2019
Start Date: 04/17/2019
Exp. Date: 07/01/2019
Project No: PWP7110005
Quad:

ENCROACHMENT PERMIT

To: COMCAST
12687 S MANTHEY RD
LATHROP, CA 95330

Encroachment Type:

TCP			
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Location:

N/S SOUTHLAND RD 400' W/O COTTAGE DR

In compliance with your request of 04/17/2019, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

Traffic Control Per MUTCD

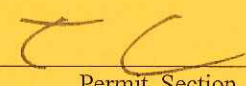
FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$490.00

WHITE	-Permittee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-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.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date

3-29-19

To:

San Joaquin County
Department of Public Works

COMCAST / CHRIS PERRY
(Applicant Name)

12687 S. MANTNEY RD
(Mailing Address)

LATHROP, CA 95330
(City, State, Zip Code)

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

OFFICE USE ONLY

JOB #

110005

REF #

APN

CR #

EXP. DATE

VALID

TO

DRIVEWAYS:

STREET

AREA

QUAD

TYPE

FORMS

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 NORTH side of SOUTHLAND RD approximately 400 feet/mile WEST of COTTAGE DR., MANTECA, by performing the following work (description of work):
FROM JOINT POLE BORE 60' SOUTH THEN 150' WEST TO
NEW HOUSING DEVELOPMENT INSTALL 2-2" CONDUIT FOR CATV
SERVICE.

Work will commence on or about 5-20-19 for approximately 60 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 of Applicant - Title

Date



SAN JOAQUIN
COUNTY
Greatness grows here.



Department of Public Works

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development

Michael Selling, Deputy Director/Engineering

Jim Stone, Deputy Director/Operations

Kristi Rhea, Manager of Strategic Initiatives

Acknowledgement of Monument Preservation

I, Ryan Schiess, PLS, a duly Licensed Land Surveyor or a Professional Engineer
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. PLS 8366,

hereby acknowledge and accept all responsibility for the monument preservation as required

per Section 8771(a-f) of the Business and Professions Code within the bounds of the

construction activity permitted by San Joaquin County Permit No. _____.

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

Preservation prior to final acceptance of the construction activity.

Signature

Seal

3-28-2019

Date

PS MONUMENT PRESERVATION



APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 3-29-19

To: San Joaquin County
Department of Public Works

COMCAST / CHRIS PERRY
(Applicant Name)

12687 S. MANTNEY RD
(Mailing Address)

LATHROP, CA 95330
(City, State, Zip Code)

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

OFFICE USE ONLY

JOB #	<u>110005</u>	REF #	
APN		CR #	
EXP. DATE			
VALID		TO	
STREET			DRIVEWAYS:
AREA		QUAD	*
TYPE			*
FORMS			*
NOTES			

Sketch (Detailed plans may be submitted)

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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.

Chris Perry PERMIT COORDINATOR
Signature of Applicant - Title

3-29-19
Date



SAN JOAQUIN
COUNTY
Greatness grows here.



Department of Public Works

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development

Michael Selling, Deputy Director/Engineering

Jim Stone, Deputy Director/Operations

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Seal

3-28-2019

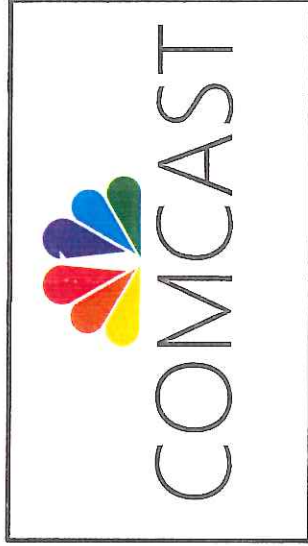
Date

PS: MONUMENT PRESERVATION

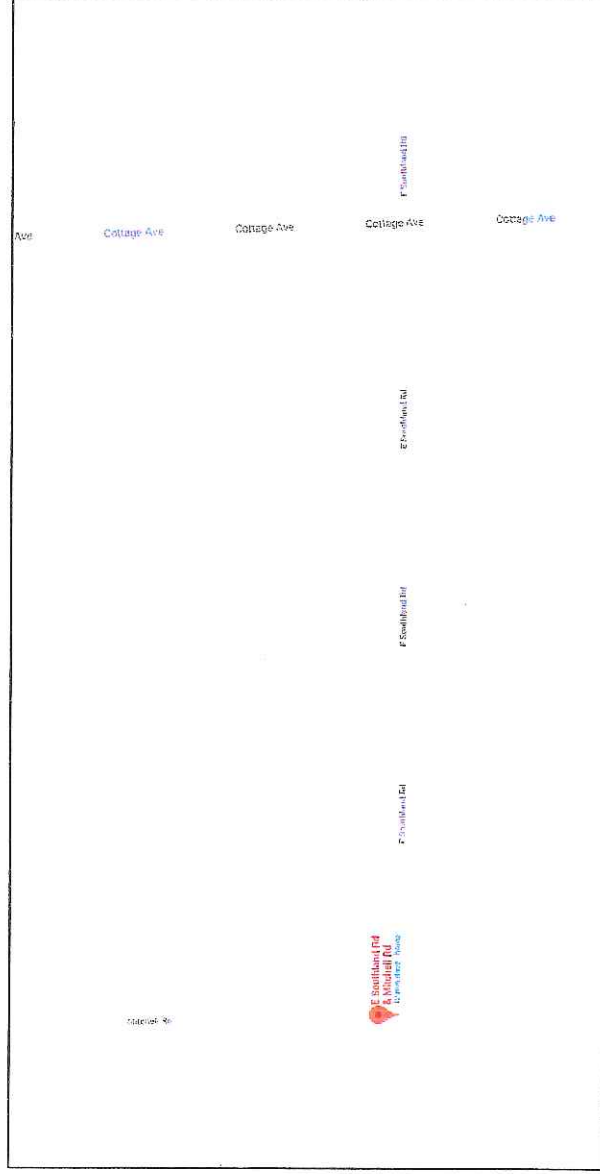


Mitchell Rd & E Southland Rd - Intersection Manteca, CA 95336

CONTACTS
SEFNCO:
Christian Rojas



VICINITY MAP



- Scope Of Work,**
- Tie onto existing Stub ups and place new vault back of walk.
 - Bore 192' back of walk and place new vault.
 - Continue bore 46' across Mitchell Rd. to pole 1 and rework riser up 25'.
 - Overlash 1,050' to pole 6.
 - 100' back from pole 6, overlash 559' across Southland Rd and along Cottage Rd mid-way after pole 9.

BUILD

- Bore Footage 238 ft
- Riser Footage (1) 25 ft
- Overlash Footage 1,609 ft
- New Vault (24x36) 2

LEGEND

- Cover Sheet
- Legends & General Notes
- Site Plan
- Traffic Control Plan
- Typical Detail Page
- Pedestrian Detour/Escort Plan

THIS IS A COMCAST DOCUMENT. PROPRIETARY & CONFIDENTIAL			
DESIGN:	REV	DESCRIPTION	DATE
DRAWN BY:		SEFNCO	3/7/2019
APPROVED:			
APPROVED:			



Mitchell Rd & E Southland Rd - Intersection

PROJ#: 276075

CONSTRUCTION TYPE: BORE

SYSTEM:

NODE:

PROPOSED TRENCH/TORRE ROUTE	
EXISTING COMCAST ROUTE	
EXISTING TELEPHONE ROUTE	
EXISTING ELECTRICAL SYSTEM	
EXISTING GAS SYSTEM	
EXISTING TV SYSTEM	
EXISTING IRRIGATION SYSTEM	
EXISTING JOINT TRENCH	
EXISTING SANITARY SEWER	
EXISTING STORM DRAIN	
EXISTING WATER LINE	
EXISTING FENCELINE	
ROADWAY CENTER LINE	
PROPERTY LINE	

COMCAST C	COMCAST E	COMCAST F	COMCAST MIN	COMCAST MAX	COMCAST DOT	COMCAST CONDUIT	COMCAST CENTER LINE	PL PUE	PL R/W	PL SD	PL SS	PL T	PL W	PROPERTY LINE PUBLIC UTILITY EASEMENT RIGHT OF WAY EXISTING STORM DRAIN EXISTING SANITARY SEWER EXISTING TELEPHONE EXISTING WATER
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	TRANSFORMER
	STREET LIGHT
	TRAFFIC SIGNAL COMBINATION
	FIRE HYDRANT
	MONUMENT
	CATCH BASIN
	STORM DRAIN MANHOLE
	WATER MANHOLE
	SANITARY SEWER MANHOLE
	SEWER CLEAN OUT
	ELECTRIC MANHOLE
	UNIDENTIFIED MANHOLE
	WATER METER
	GAS METER

1. ALL VAULTS / HANDHOLES TO BE EQUIPPED WITH SECURITY LIDS WITH LOCKING BOLTS.
2. ALL ROAD 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 CURVES, 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).

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. CONTRACTOR MUST 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 SNOOZE(S) STORAGE LOCATIONS SHALL BE DETERMINED ON CONSTRUCTION DRAWINGS. HOWEVER, REEL LENGTHS OF FIVE HUNDRED FEET (500) OR LESS ON 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 CUT AND RETURNED.
4. FIBER OPTIC IDENTIFICATION TAGS SHALL BE PLACED AT EVERY WORK POLE, MANHOLE, FIBER, STORAGE LOOP, 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 POLE.
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, BLUE-WEST, DO NOT TAPE FIBER CABLES TOGETHER IN RISER.

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 MAY VARY ONCE UTILITIES HAVE BEEN FIELD LOCATED.
3. ANCHORING FOR THE AERIAL CONSTRUCTION IS TYPICALLY DEFERRING DURING FINAL CONSTRUCTION. ALL CABLES AND ANTENNAE ARE COLLECTED IN A REAR-SIDE UT RCHASE

IMPORTANT NOTICE

Section # 4216/4217 of the Government Code requires a "Dig Alert Identification Number" to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D.

CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2800

IMPORTANT NOTICE

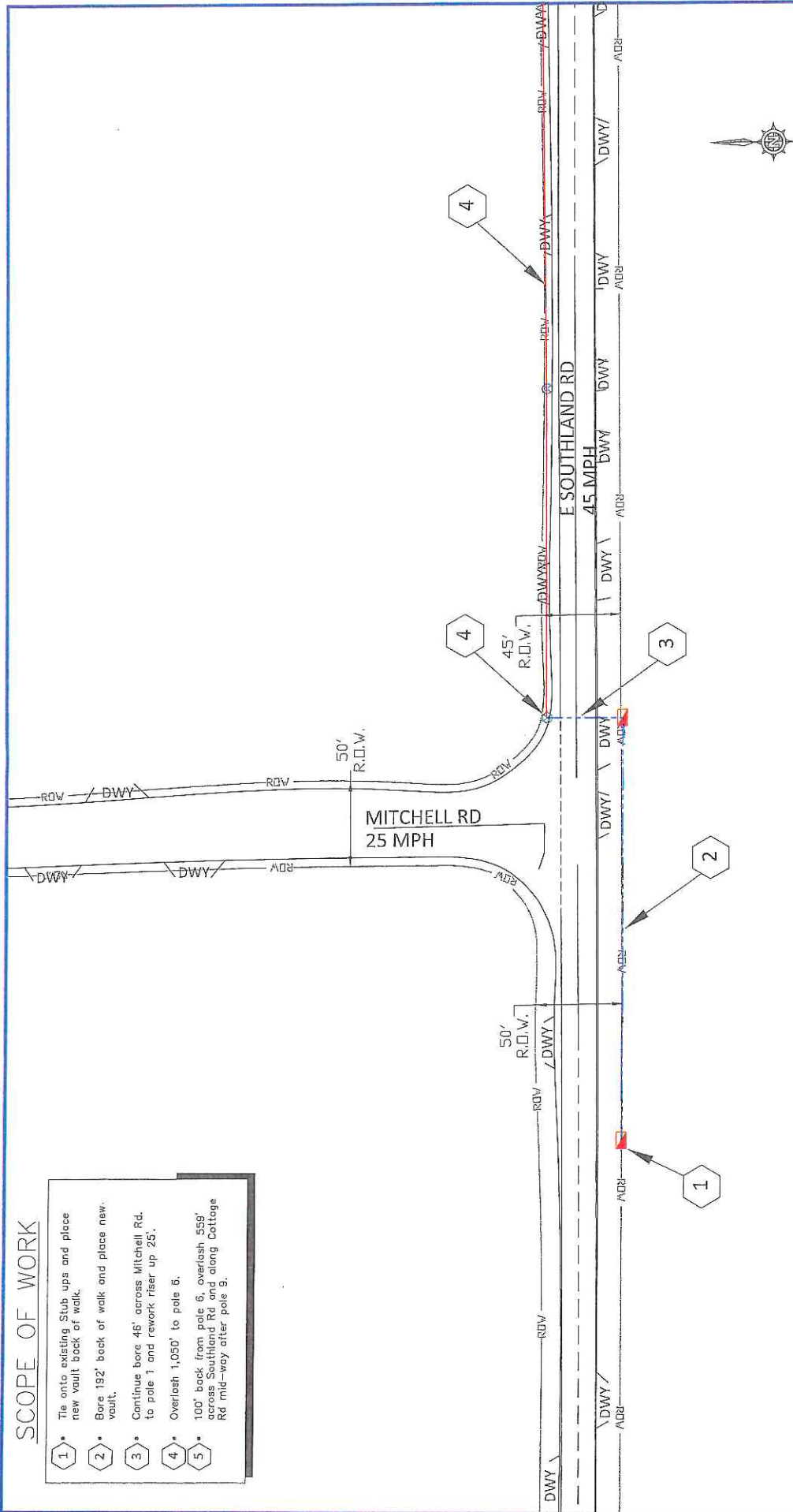


LEGEND & GENERAL NOTES

PROJ#: 276075
CONSTRUCTION TYPE: BORE
SYSTEM:
NODE:

SCOPE OF WORK

1. Tie onto existing Stub ups and place new vault back of walk.
2. Bore 192' back of walk and place new vault.
3. Continue bore 46' across Mitchell Rd. to pole 1 and rework riser up 25'.
4. Overlash 1,050' to pole 6.
5. 100' back from pole 6, overlash 559' across Southland Rd and along Cottage Rd mid-way after pole 9.



THIS IS A COMCAST DOCUMENT, PROPRIETARY & CONFIDENTIAL

REV	DESCRIPTION	DATE
1	SEFECO	3/1/2018

DESIGN:
DRAWN BY:
APPROVED:
APPROVED:



IMPORTANT NOTICE
Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert ID.
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-8800



SITE PLAN 1-1

PROJ#: 276075
CONSTRUCTION TYPE: BORE
SYSTEM:
NODE:

TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	180 FT.	7	30 FT.	200 FT.
35 MPH	245 FT.	8	35 FT.	250 FT.
40 MPH	320 FT.	9	40 FT.	300 FT.
45 MPH	400 FT.	10	45 FT.	350 FT.
50 MPH	500 FT.	13	50 FT.	450 FT.
55+ MPH	1000 FT.	21	55 FT.	1000 FT.

(*) NOTE— BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- Y High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger



E SOUTHLAND RD
45 MPH

360'-540'

W20-1

360'-540'

180' TAPER



IMPORTANT NOTICE
Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D. CALL TOLL FREE 1-800-480-4800 FOR A FREE DIG UNDERGROUND SERVICE ALERT 1-800-227-2800

DESIGN:	REV	DESCRIPTION	DATE
DRAWN BY:		SEF/DO	3/7/2019
APPROVED:			
APPROVED:			

TRAFFIC CONTROL PLAN 1-1		
PROJECT: 276075	SCALE =	N.T.S.
CONSTRUCTION TYPE: BORE		
SYSTEM:		
NOTE:		

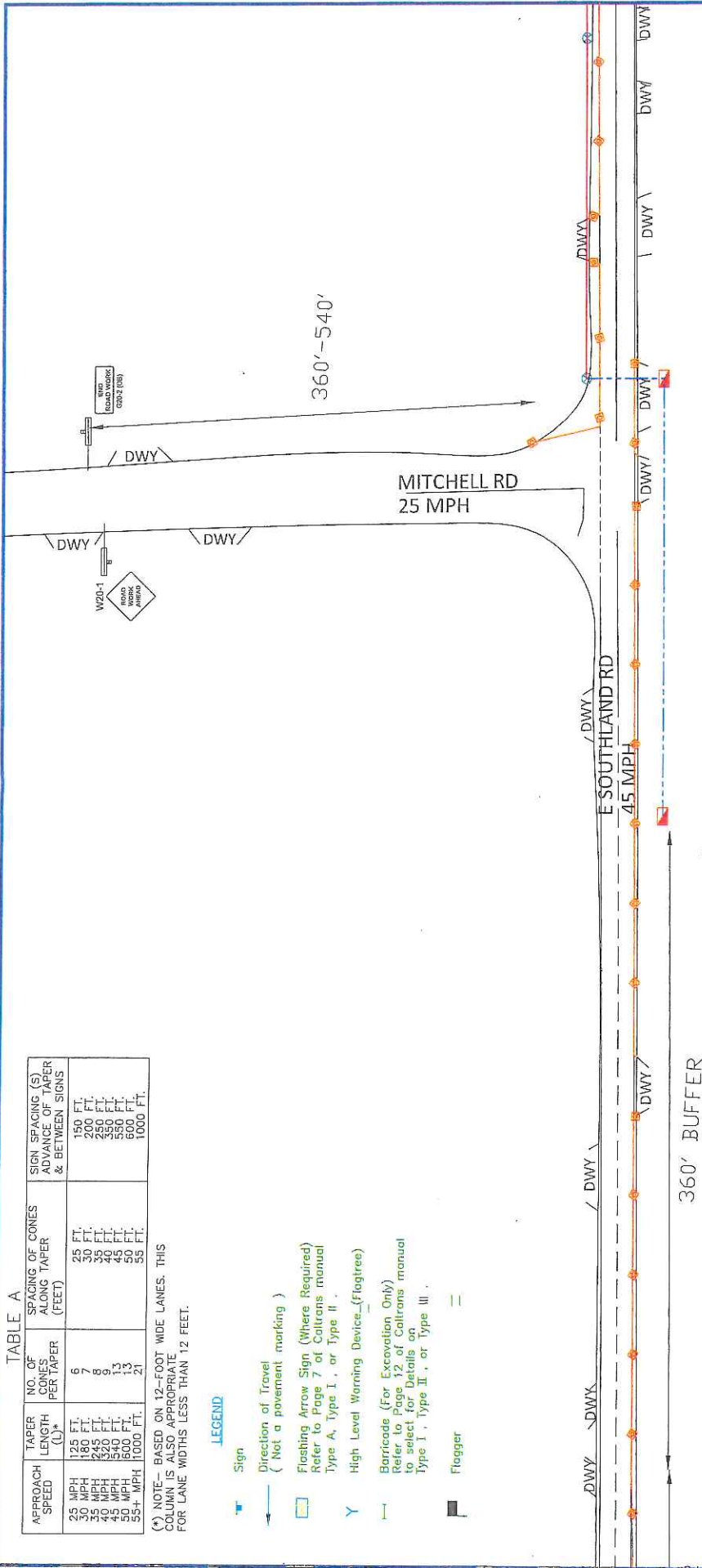
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30 MPH	180 FT.	7	30 FT.	200 FT.
35 MPH	245 FT.	8	35 FT.	250 FT.
40 MPH	320 FT.	9	40 FT.	300 FT.
45 MPH	400 FT.	10	45 FT.	350 FT.
50 MPH	500 FT.	12	50 FT.	450 FT.
55+ MPH	1000 FT.	21	55 FT.	1000 FT.

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LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger



THIS IS A COMCAST DOCUMENT, PROPRIETARY & CONFIDENTIAL

DESIGN:	REV	DESCRIPTION	DATE
DESIGNED BY:		SEFNO	3/7/2019
DRAWN BY:			
APPROVED:			
APPROVED:			

IMPORTANT NOTICE
 Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert ID.
 CALL TOLL FREE
 1-800-487-2800
 48 HOURS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT

TRAFFIC CONTROL PLAN 1-1	PROJ#: 276075	SCALE = N.T.S.
	CONSTRUCTION TYPE: BORE	
	SYSTEM:	
	NODE:	

TABLE A

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30 MPH	180 FT.	9	35 FT.	200 FT.
35 MPH	245 FT.	9	40 FT.	250 FT.
40 MPH	320 FT.	13	45 FT.	350 FT.
45 MPH	540 FT.	13	50 FT.	550 FT.
50 MPH	840 FT.	21	55 FT.	600 FT.
55+ MPH	1000 FT.	21	55 FT.	1000 FT.

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MATCH PAGE 7

360'-540'

COTTAGE RD
45 MPH

E SOUTHLAND RD
45 MPH

MATCH PAGE 9



IMPORTANT NOTICE

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THIS IS A COMCAST DOCUMENT. PROPRIETARY & CONFIDENTIAL

DESIGN:	REV	DESCRIPTION	DATE
DRAWN BY:		SEFNCO	3/7/2019
APPROVED:			
APPROVED:			

TRAFFIC CONTROL PLAN 1-1

PROJ#: 276075
CONSTRUCTION TYPE: BORE
SCALE = N.T.S.
SYSTEM:
NODE:
SHEET: 6 OF 19

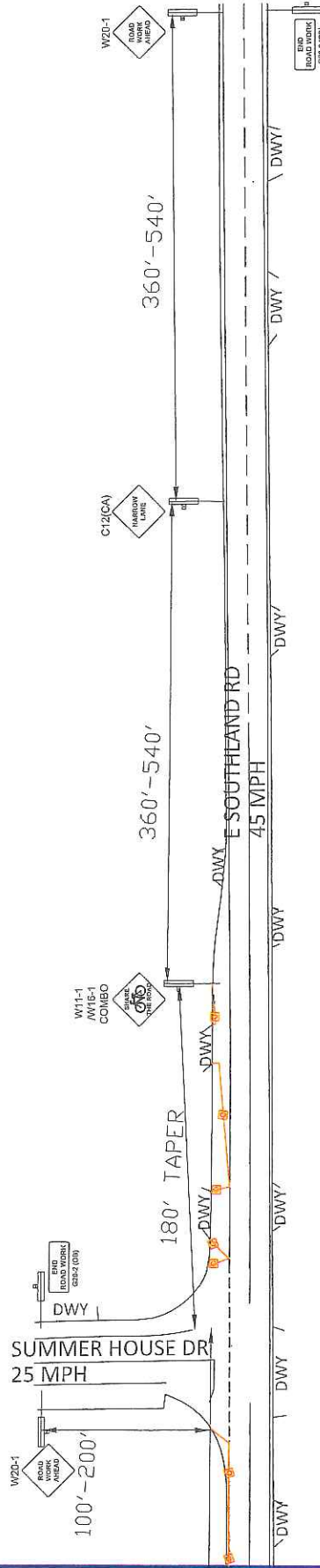
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30 MPH	150 FT.	7	30 FT.	200 FT.
35 MPH	180 FT.	8	35 FT.	250 FT.
40 MPH	210 FT.	9	40 FT.	300 FT.
45 MPH	245 FT.	10	45 FT.	350 FT.
50 MPH	280 FT.	11	50 FT.	400 FT.
55+ MPH	320 FT.	13	55 FT.	500 FT.
	1000 FT.	21	100 FT.	1000 FT.

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- Flagger



TRAFFIC CONTROL PLAN 1-1

PROJ#: 276075
 SCALE = N.T.S.
 CONSTRUCTION TYPE: BORE
 SYSTEM:
 NODE:
 SHEET: 8 OF 19

IMPORTANT NOTICE

Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D. CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICES ALERT 1-800-427-2800



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DESIGN:	REV	DESCRIPTION	DATE
DRAWN BY:		SEFNO	3/7/2019
APPROVED:			
APPROVED:			

MATCH PAGE 6

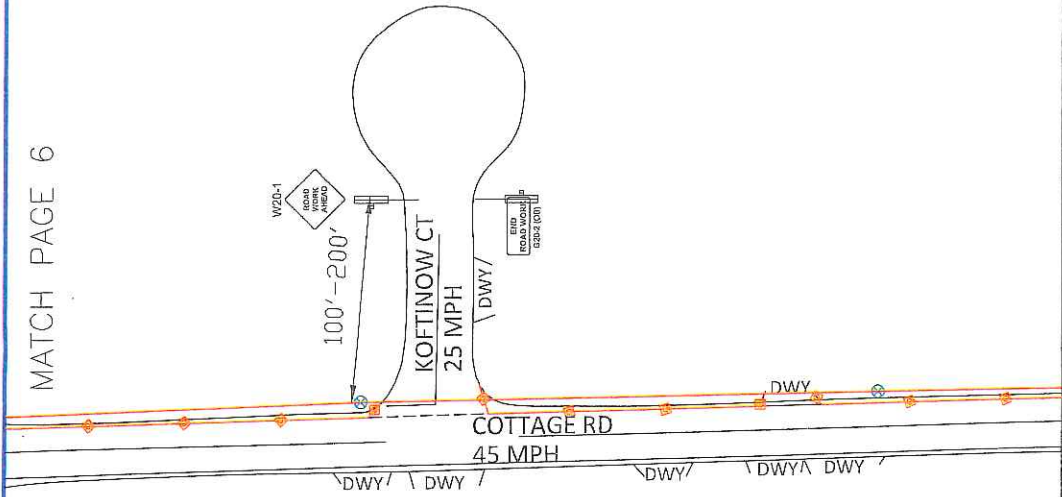


TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	150 FT.	7	30 FT.	200 FT.
35 MPH	175 FT.	8	35 FT.	250 FT.
40 MPH	200 FT.	9	40 FT.	300 FT.
45 MPH	225 FT.	10	45 FT.	350 FT.
50 MPH	250 FT.	11	50 FT.	400 FT.
55+ MPH	300 FT.	13	55 FT.	500 FT.
	1000 FT.	21		1000 FT.

(*) NOTE - BASED ON 12-FOOT WIDE LANES, THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

- LEGEND**
- Sign
 - Direction of Travel (Not a pavement marking)
 - Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
 - High Level Warning Device (Flagtree)
 - Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
 - Flagger

IMPORTANT NOTICE

Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert ID.

CALL TOLL FREE 48 HOURS IN ADVANCE FOR AN UNDERGROUND SERVICE ALERT 1-800-227-2600



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DRAWN BY:		SEFNGO	3/7/2019
APPROVED:			
APPROVED:			

TRAFFIC CONTROL PLAN 1-1

PROJ#: 276075 SCALE = N.T.S.

CONSTRUCTION TYPE: BORE

SYSTEM:

NODE:

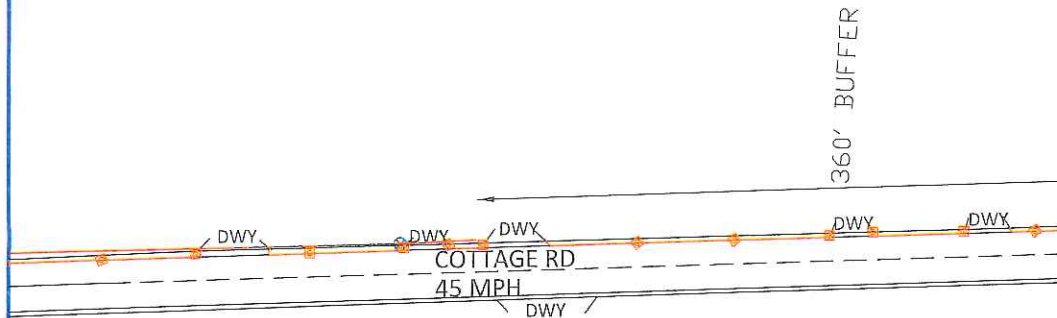
SHEET: 9 OF 19



APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	135 FT.	9	35 FT.	150 FT.
35 MPH	225 FT.	7	40 FT.	200 FT.
40 MPH	240 FT.	9	40 FT.	250 FT.
45 MPH	270 FT.	11	40 FT.	300 FT.
50 MPH	300 FT.	13	45 FT.	350 FT.
55+ MPH	1000 FT.	21	55 FT.	1000 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

	Sign
	Direction of Travel (Not a pavement marking)
	Fashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
	High Level Warning Device (Flagtree)
	Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual Select for details on Type I, Type II, or Type III.
	Flagger



IMPORTANT NOTICE

Section # 4215/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid For your Dig Alert I.D.

CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600



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DESIGN:	REV	DESCRIPTION	DATE
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APPROVED:			
APPROVED:			
APPROVED:			

TRAFFIC CONTROL PLAN 1-1

PROJ#: 276075

CONSTRUCTION TYPE: BORE

SYSTEM.

SHEET: 10 OF 19

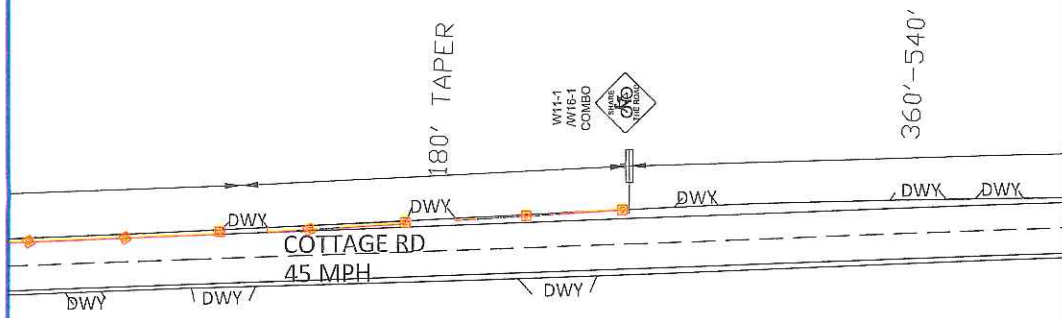


TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	150 FT.	7	35 FT.	200 FT.
35 MPH	180 FT.	8	40 FT.	250 FT.
40 MPH	245 FT.	9	45 FT.	300 FT.
45 MPH	320 FT.	13	55 FT.	350 FT.
50 MPH	400 FT.	13	60 FT.	400 FT.
55+ MPH	1000 FT.	21	55 FT.	600 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

- LEGEND**
- Sign
 - Direction of Travel (Not a pavement marking)
 - Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
 - High Level Warning Device (Flagtree)
 - Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
 - Fogger



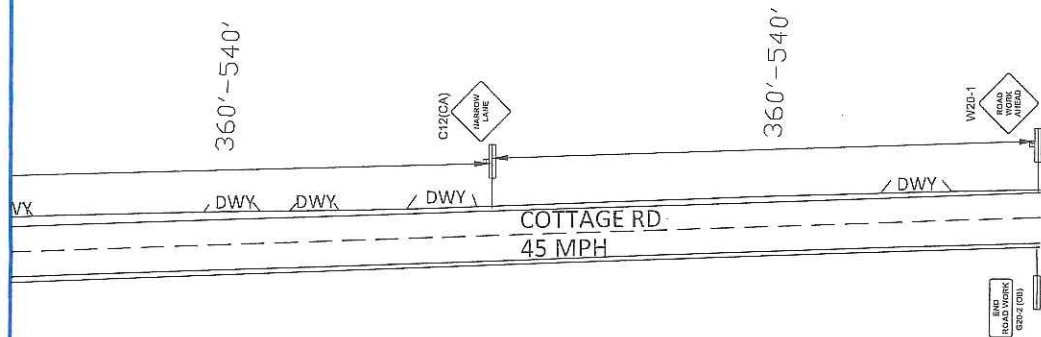
THIS IS A COMCAST DOCUMENT, PROPRIETARY & CONFIDENTIAL		TRAFFIC CONTROL PLAN 1-1	
DESIGN:	REV	DESCRIPTION	DATE
DRAWN BY:		SEFNC	3/7/2019
APPROVED:			
APPROVED:			
		IMPORTANT NOTICE Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert ID. CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600	
PROJECT: 276075 CONSTRUCTION TYPE: BORE SYSTEM: NODE:		SCALE = N.T.S. SHEET: 11 OF 19	

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	180 FT.	7	30 FT.	200 FT.
35 MPH	245 FT.	8	35 FT.	250 FT.
40 MPH	310 FT.	9	40 FT.	300 FT.
45 MPH	375 FT.	13	45 FT.	350 FT.
50 MPH	440 FT.	13	50 FT.	400 FT.
55+ MPH	1000 FT.	21	55 FT.	1000 FT.

(* NOTE - BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger



IMPORTANT NOTICE

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THIS IS A COMCAST DOCUMENT, PROPRIETARY & CONFIDENTIAL

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DRAWN BY:		SEF/CO	3/7/2019
APPROVED:			
APPROVED:			

TRAFFIC CONTROL PLAN 1-1

PROJ#: 276075 SCALE = N.T.S.
CONSTRUCTION TYPE: BORE
SYSTEM:
NODE:
SHEET: 12 OF 19



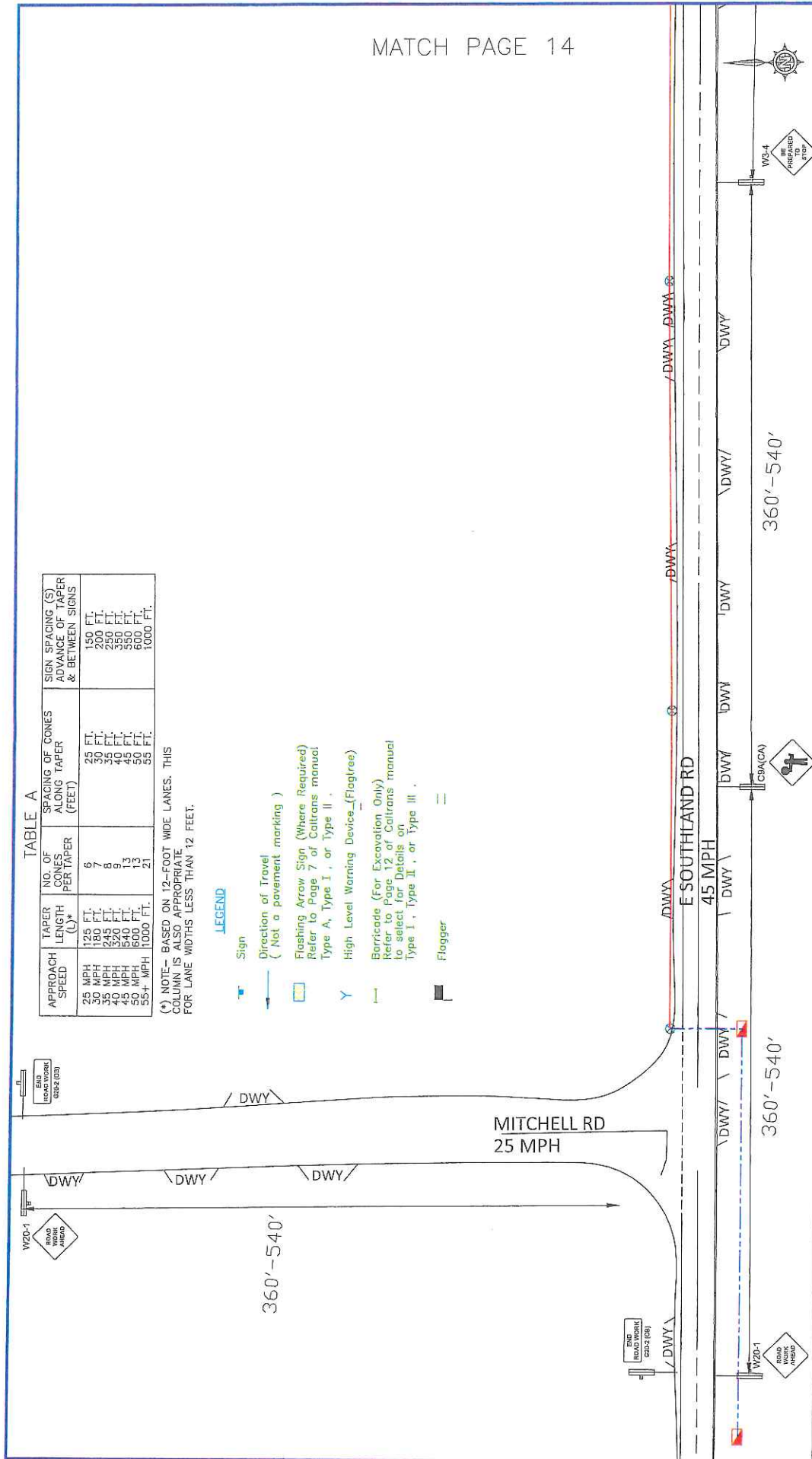
TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	9	25 FT.	150 FT.
30 MPH	150 FT.	8	30 FT.	200 FT.
35 MPH	200 FT.	7	40 FT.	250 FT.
40 MPH	245 FT.	6	40 FT.	300 FT.
45 MPH	320 FT.	5	45 FT.	350 FT.
50 MPH	400 FT.	4	50 FT.	400 FT.
55+ MPH	600 FT.	3	50 FT.	600 FT.
	1000 FT.	2	55 FT.	1000 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- High Level Warning Device (Flagfree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger



IMPORTANT NOTICE
Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D.
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND ALERT
1-800-227-2800

TRAFFIC CONTROL PLAN 2

PROJECT: 276075
CONSTRUCTION TYPE: BORE
SCALE = N.T.S.
SYSTEM:
NODE:
SHEET: 13 OF 19

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REV	DESCRIPTION	DATE
1	SEFACO	3/7/2019

DESIGN:
DRAWN BY:
APPROVED:
APPROVED:

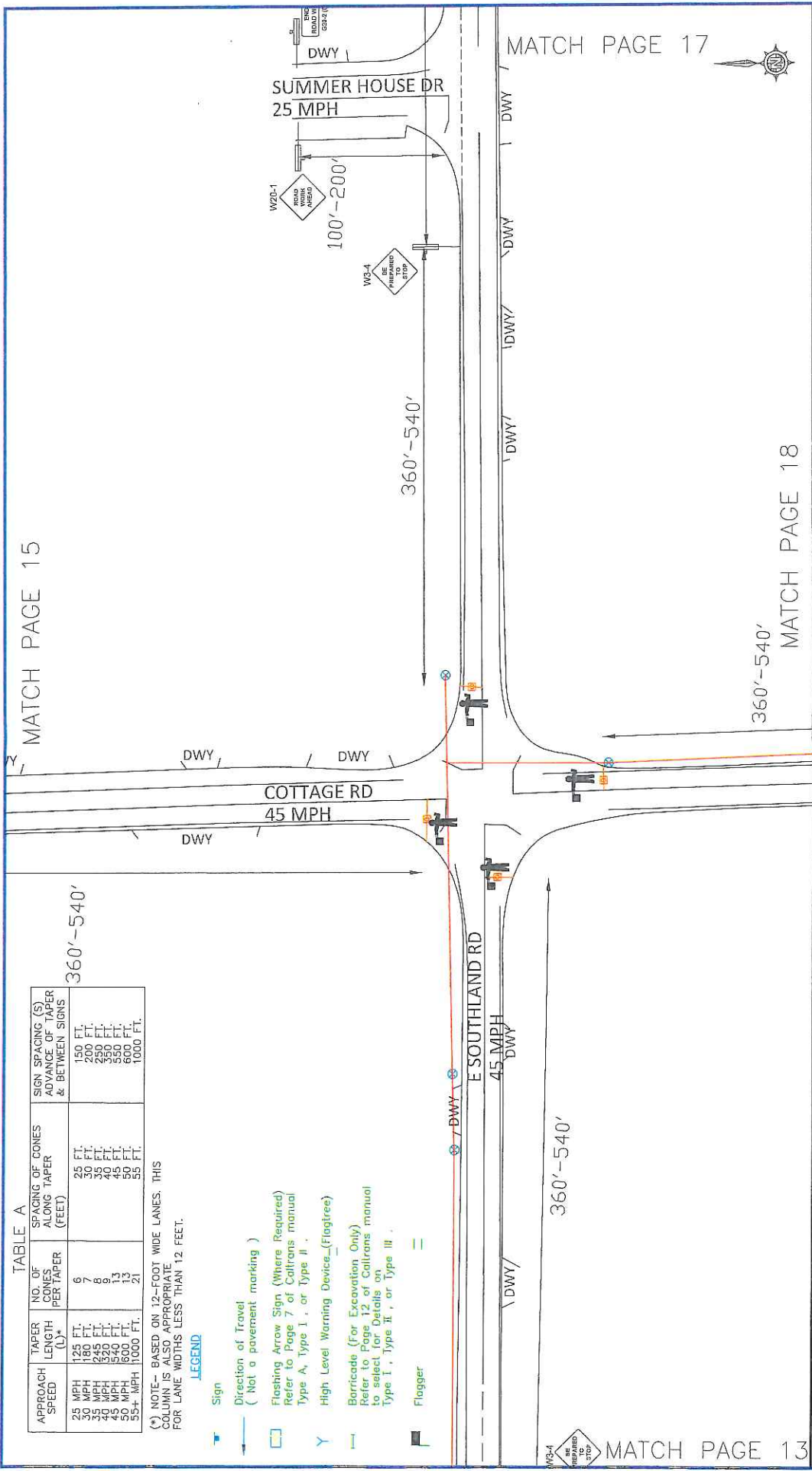


TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
35 MPH	125 FT.	6	25 FT.	150 FT.
40 MPH	180 FT.	7	35 FT.	200 FT.
45 MPH	245 FT.	8	40 FT.	250 FT.
50 MPH	320 FT.	9	45 FT.	350 FT.
55+ MPH	540 FT.	13	55 FT.	550 FT.
	1000 FT.	21	55 FT.	600 FT.
				1000 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger

TRAFFIC CONTROL PLAN 2

PROJ#: 276075 SCALE = N.T.S.

CONSTRUCTION TYPE: BORE

SYSTEM:

NOTE:

IMPORTANT NOTICE

Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert ID.

CALL 811 BEFORE YOU DIG

48 HOURS BEFORE SERVICE ALERT

1-800-227-2800

DESIGN: _____

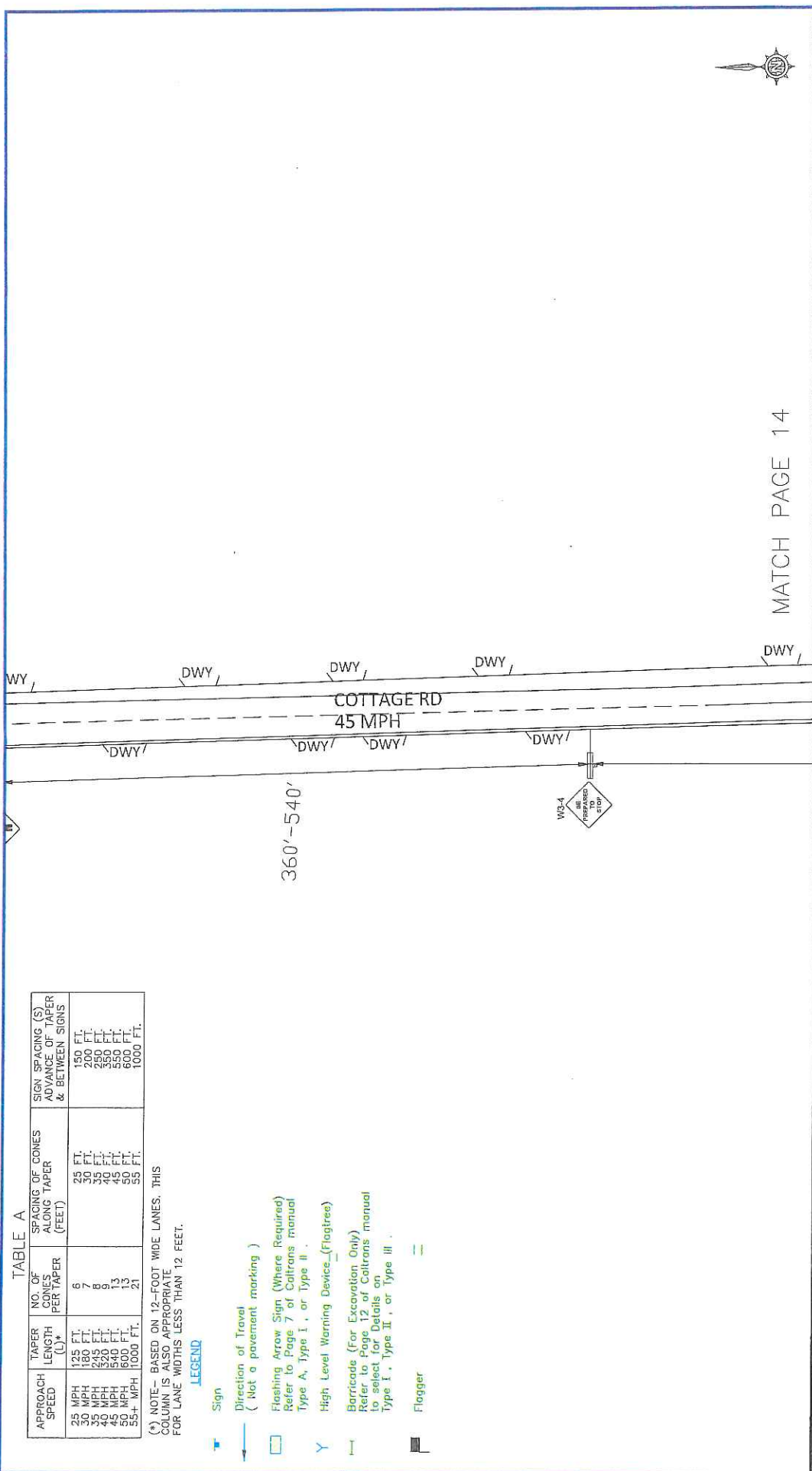
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APPROVED: _____

APPROVED: _____

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REV	DESCRIPTION	DATE
1	SEF/CO	3/7/2019



MATCH PAGE 14

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DESIGN:	REV	PROJ#: 276075	SCALE = N.T.S
DRAWN BY:	DESCRIPTION	CONSTRUCTION TYPE: BORE	
APPROVED:	SEFNO	SYSTEM:	
APPROVED:		NODE:	

811
excavation
call before you dig

IMPORTANT NOTICE
Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert ID.
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-8600

TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	150 FT.	8	30 FT.	200 FT.
35 MPH	175 FT.	9	35 FT.	250 FT.
40 MPH	200 FT.	10	40 FT.	300 FT.
45 MPH	225 FT.	13	45 FT.	350 FT.
50 MPH	250 FT.	15	50 FT.	400 FT.
55+ MPH	300 FT.	21	55 FT.	600 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger

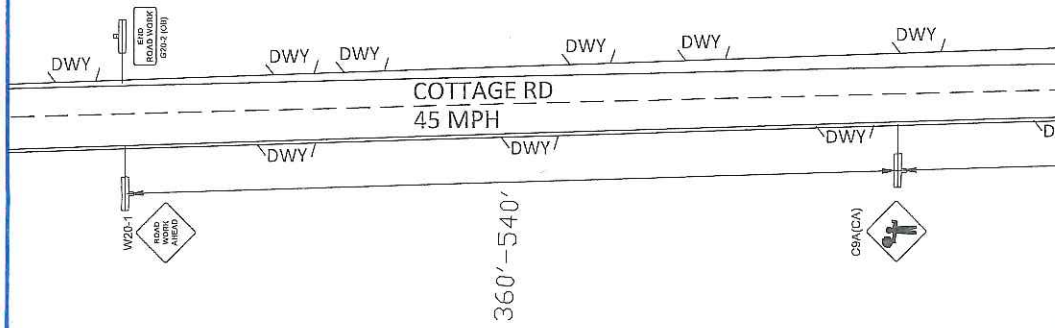
TABLE A

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	35 FT.	150 FT.
30 MPH	180 FT.	7	30 FT.	250 FT.
35 MPH	245 FT.	8	35 FT.	250 FT.
40 MPH	320 FT.	9	40 FT.	350 FT.
45 MPH	400 FT.	10	45 FT.	550 FT.
50 MPH	500 FT.	13	55 FT.	550 FT.
55+ MPH	1000 FT.	21	55 FT.	1000 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

-  Sign
-  Direction of Travel (Not a pavement marking)
-  Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
-  High Level Warning Device (Flagtree)
-  Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
-  Flagger



IMPORTANT NOTICE

Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D.



CALL TOLL FREE 1-800-480-4800
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2800

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1	SEFVCO	3/7/2019

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DRAWN BY:
APPROVED:
APPROVED:

TRAFFIC CONTROL PLAN 2

PROJ#: 276075
SCALE = N.T.S.
CONSTRUCTION TYPE: BORE
SYSTEM:
NOTE:
SHEET: 16 OF 19

TABLE A

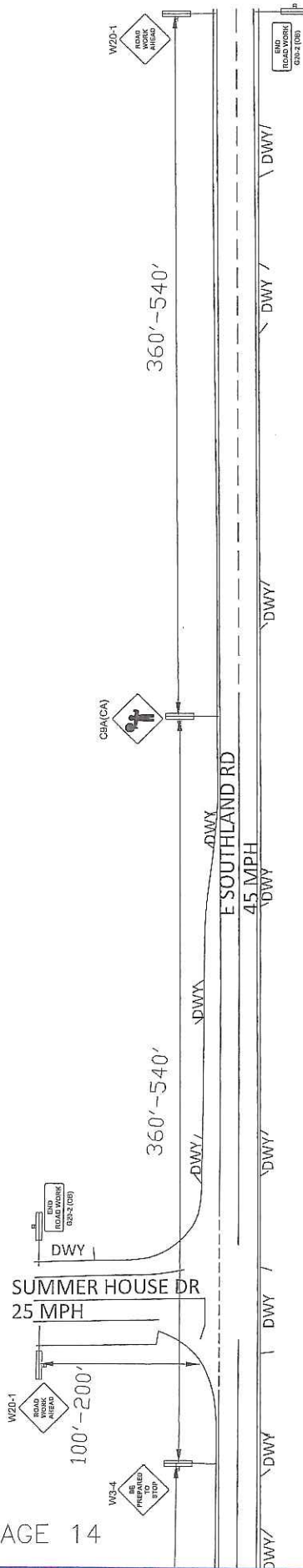
APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	180 FT.	7	30 FT.	200 FT.
35 MPH	245 FT.	8	35 FT.	250 FT.
40 MPH	320 FT.	9	40 FT.	300 FT.
45 MPH	400 FT.	10	45 FT.	350 FT.
50 MPH	500 FT.	13	50 FT.	450 FT.
55+ MPH	600 FT.	21	55 FT.	1000 FT.

(*) NOTE - BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
- High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
- Flagger

MATCH PAGE 14



IMPORTANT NOTICE
 Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D.
 CALL TOLL FREE
 48 HOURS BEFORE YOU DIG
 UNDERGROUND UTILITY ALERT
 1-800-227-2800

TRAFFIC CONTROL PLAN 2

PROJ#: 276075 SCALE = N.T.S.

CONSTRUCTION TYPE: BORE

SYSTEM:

NODE:

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DATE: 3/7/2019

DESCRIPTION: SEFNCO

DESIGN: _____

DRAWN BY: _____

APPROVED: _____

APPROVED: _____

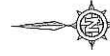
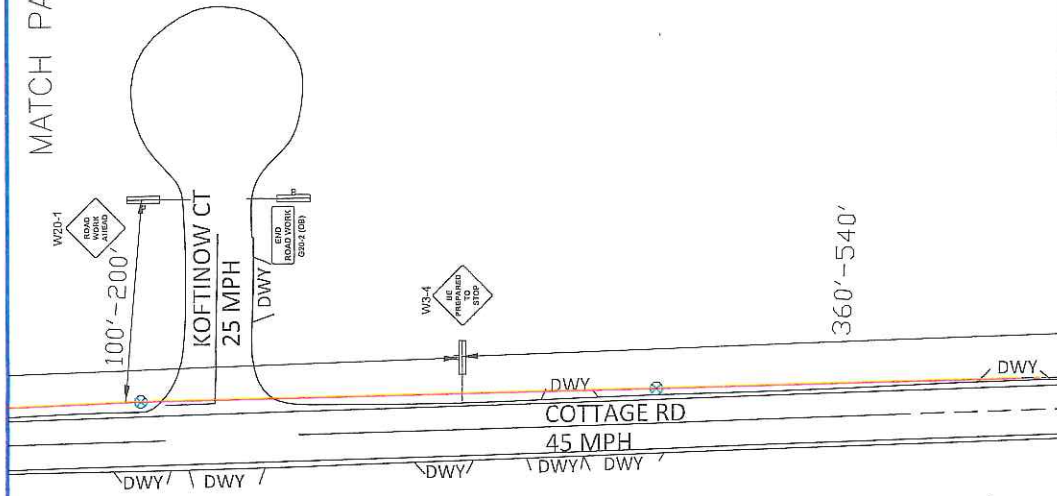
MATCH PAGE 14

APPROACH SPEED	TAPER LENGTH (L)	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	150 FT.	7	30 FT.	200 FT.
35 MPH	175 FT.	8	35 FT.	250 FT.
40 MPH	200 FT.	9	40 FT.	300 FT.
45 MPH	225 FT.	10	45 FT.	350 FT.
50 MPH	250 FT.	11	50 FT.	400 FT.
55 MPH	275 FT.	12	55 FT.	450 FT.
60 MPH	300 FT.	13	60 FT.	500 FT.
65 MPH	325 FT.	14	65 FT.	550 FT.
70 MPH	350 FT.	15	70 FT.	600 FT.
75 MPH	375 FT.	16	75 FT.	650 FT.
80 MPH	400 FT.	17	80 FT.	700 FT.
85 MPH	425 FT.	18	85 FT.	750 FT.
90 MPH	450 FT.	19	90 FT.	800 FT.
95 MPH	475 FT.	20	95 FT.	850 FT.
100 MPH	500 FT.	21	100 FT.	900 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

- Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual
- Type A, Type I, or Type II
- High Level Warning Device (Flagtree)
- Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III
- Flagger



IMPORTANT NOTICE

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CALL TOLL FREE

48 HOURS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

1-800-227-2800



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DRAWN BY:		SENCOD	3/7/2019
APPROVED:			
APPROVED:			

TRAFFIC CONTROL PLAN 2

PROJECT: 276075 SCALE = N.T.S.

CONSTRUCTION TYPE: BORE

SYSTEM:

NOTE:

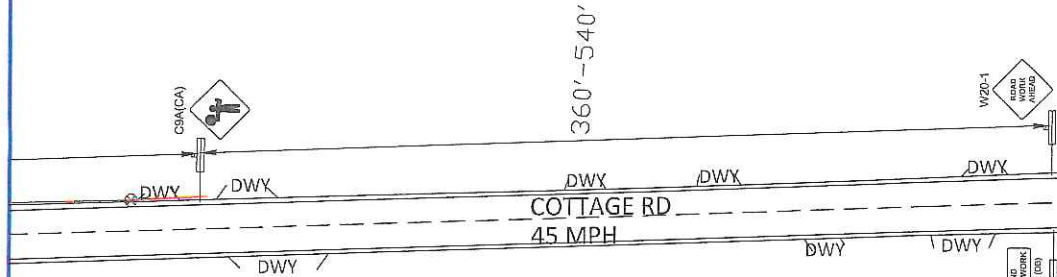
SHEET: 18 OF 19

APPROACH SPEED	TAPER LENGTH (L)*	NO. OF CONES PER TAPER	SPACING OF CONES ALONG TAPER (FEET)	SIGN SPACING (S) ADVANCE OF TAPER & BETWEEN SIGNS
25 MPH	125 FT.	6	25 FT.	150 FT.
30 MPH	150 FT.	7	30 FT.	200 FT.
35 MPH	180 FT.	8	35 FT.	250 FT.
40 MPH	240 FT.	9	40 FT.	350 FT.
45 MPH	300 FT.	10	45 FT.	450 FT.
50 MPH	400 FT.	13	50 FT.	600 FT.
55+ MPH	600 FT.	21	55 FT.	1000 FT.

(*) NOTE- BASED ON 12-FOOT WIDE LANES. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET.

LEGEND

-  Sign
-  Direction of Travel (Not a pavement marking)
-  Flashing Arrow Sign (Where Required) Refer to Page 7 of Caltrans manual Type A, Type I, or Type II.
-  High Level Warning Device (Flagtree)
-  Barricade (For Excavation Only) Refer to Page 12 of Caltrans manual to select for Details on Type I, Type II, or Type III.
-  Flagger



IMPORTANT NOTICE
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 CALL TOLL FREE
 48 HOURS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 1-800-227-2800



REV	DESCRIPTION	DATE
1	SEFNO	3/7/2019

DESIGN: _____
 DRAWN BY: _____
 APPROVED: _____
 APPROVED: _____

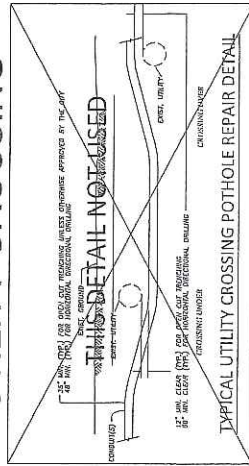
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TRAFFIC CONTROL PLAN 2

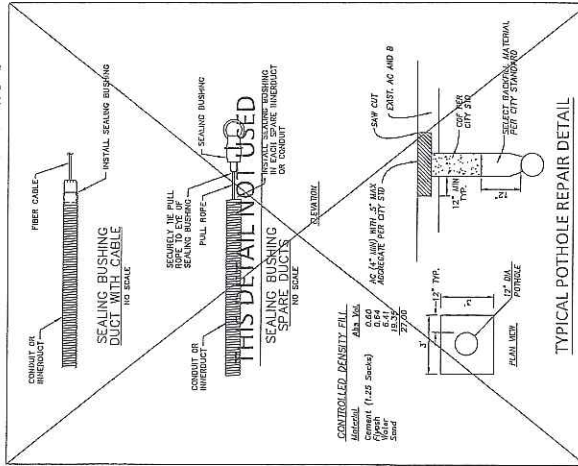
PROJ#: 276075
 SCALE = N.T.S.
 CONSTRUCTION TYPE: BORE
 SYSTEM:
 NODE:
 SHEET: 19 OF 19

TYPICAL DETAILS

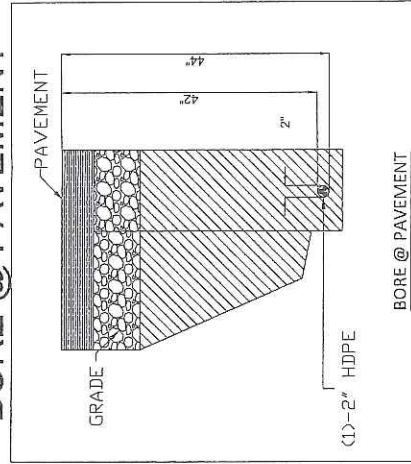
UTILITY CROSSING



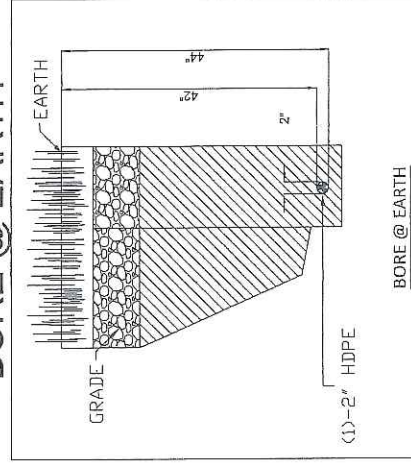
POTHOLE REPAIR



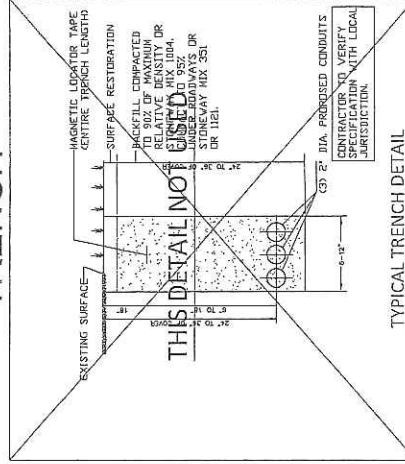
BORE @ PAVEMENT



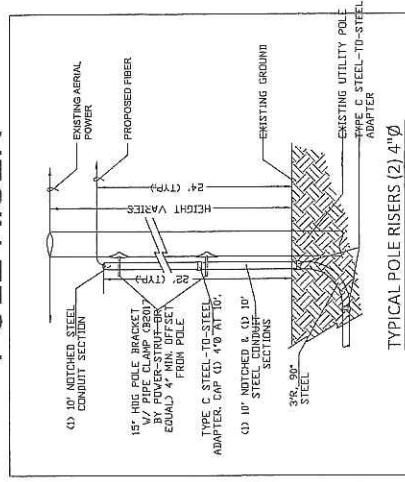
BORE @ EARTH



TRENCH



POLE RISER



REV	DESCRIPTION	DATE
1	SEFNO	3/7/2019
2		
3		
4		

IMPORTANT NOTICE

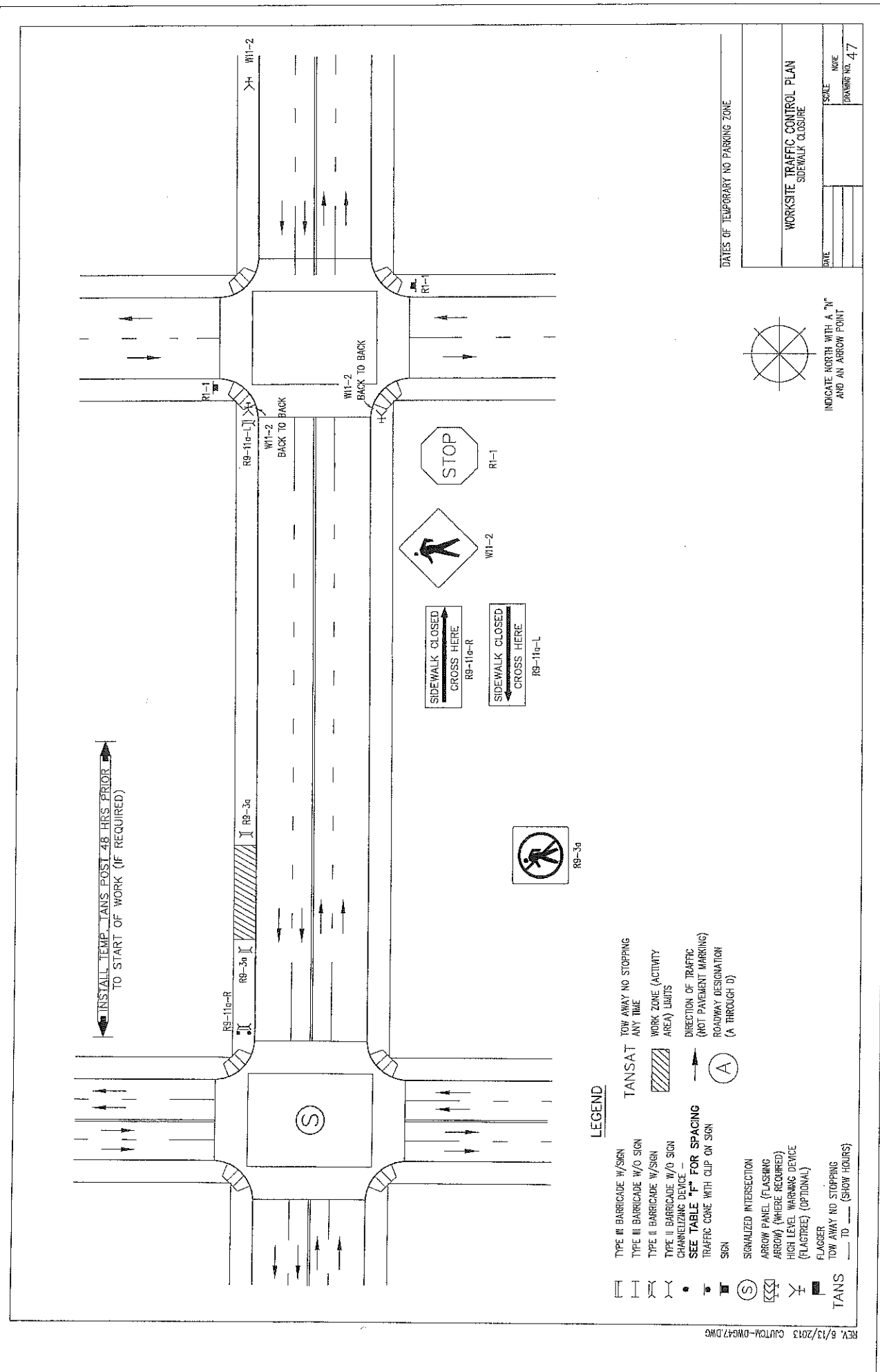
Section # 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid for your Dig Alert I.D.

CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2000

CONSTRUCTION DETAILS



PROJ#: 276075
CONSTRUCTION TYPE: BORE
SYSTEM:
NODE:



INSTALL TEMP TANS POST 48 HRS PRIOR TO START OF WORK (IF REQUIRED)

DATE: _____ SCALE: _____

WORKSITE TRAFFIC CONTROL PLAN
SIDEWALK CLOSURE

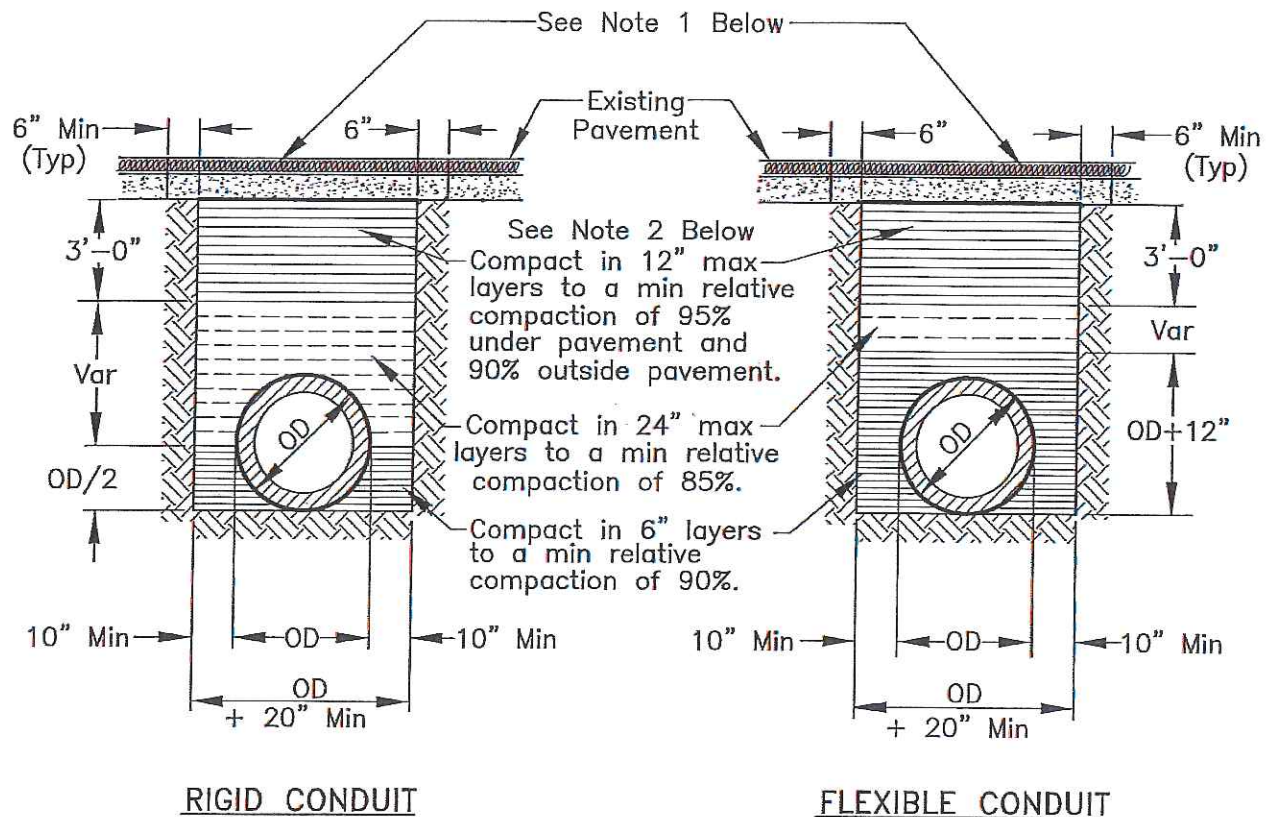
DATE: _____ SCALE: _____

NOTE: _____

EXAMINE NO: 47

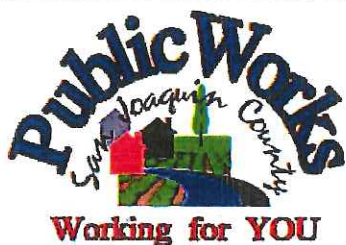
INDICATE NORTH WITH A "N" AND AN ARROW POINT

- LEGEND**
- TOW AWAY NO STOPPING ANY TIME
 - TANSAT
 - WORK ZONE (ACTIVITY AREA) LIMITS
 - DIRECTION OF TRAFFIC (NOT PAVEMENT MARKING)
 - ROADWAY DESIGNATION (A THROUGH D)
 - TYPE III BARRICADE W/SIGN
 - TYPE III BARRICADE W/O SIGN
 - TYPE II BARRICADE W/SIGN
 - TYPE II BARRICADE W/O SIGN
 - CHANNELIZING DEVICE
 - SEE TABLE "F" FOR SPACING
 - TRAFFIC CONE WITH CLIP ON SIGN
 - SIGN
 - SIGNALIZED INTERSECTION
 - ARROW PANEL (FLASHING ARROW) (WHERE REQUIRED)
 - HIGH LEVEL WARNING DEVICE (FLAUGHT) (OPTIONAL)
 - FLAGGER
 - TOW AWAY NO STOPPING
 - TO _____ TO _____ (SHOW HOURS)
 - TANS



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. Hill

No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

R-29

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
 - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
 - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.
 - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
 - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
 - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
 - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
 - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
 - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
 - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

Winter Weather Utility Work

1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.