



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-1804238
Date Issued: 12/27/2018
Start Date: 01/02/2019
Exp. Date: 02/01/2019
Project No: PWP110005
Quad: SE

ENCROACHMENT PERMIT

To: ZAYO GROUP
2700 MERCED STREET, STE. B
SAN LEANDRO, CA 94577

Encroachment Type:

Bore (up to 12 inch Dia)	Bell Hole	Trench	(2)-Splice Boxes
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Location:

E/S OF SANTA FE RD. 850' S/O HALL RD.

In compliance with your request of **12/17/2018**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

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

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

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

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

Special Comments:

Traffic Control Per MUTCD*****See Attached "Special Conditions"*****All work is being done within the dirt shoulder of the County right-of-way, no pavement cuts*****

FORMS: SS/WW, R-29

Est. Permit Fee: \$603.00

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, 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.

SPECIAL CONDITIONS FOR
ZAYO GROUP – SANTA FE RD.
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. School Buses shall be passed through the work zone with minimal delays.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by Zayo Group, including any facilities that are abandoned in place. Zayo Group 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 Zayo Group'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/bell holes 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/bell holes 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. 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.
15. 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.
16. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
17. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date DECEMBER 12, 2018To: San Joaquin County
Department of Public WorksZAYO GROUP
(Applicant Name)2700 MERCED STREET, SUITE B
(Mailing Address)SAN LEANDRO, CA 94577
(City, State, Zip Code)(916) 804-0573
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	<u>110005</u>	REF #	
APN		CR #	
EXP. DATE	<u>2/1/19</u>		
VALID	<u>1/2/19</u> TO <u>2/1/19</u>	DRIVEWAYS:	
STREET	<u>SANTA FE RD.</u>		*
AREA	<u>ESCALON</u> QUAD <u>SE</u>		*
TYPE	<u>TRENCH, BORE, Install (2) SPICE BOXES</u>		
FORMS	<u>SP/WW, R-29</u>		
NOTES	<u>"Special Conditions"</u>		

* All work done in the dirt shoulder
of the right-of-way. *

Sketch (Detailed plans may be submitted)

SEE ATTACHED PLANS.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the EAST side of SANTA FE ROAD approximately _____ feet/mile of _____, by performing the following work (description of work):
ZAYO TO TRENCH & PLACE (2) 1.25' CNDT'S, PLACE (T) BP'S, PLACE (N) SB'S W/ TRAFFIC RATED LID, DIRECTIONAL BORE & PLACE (2) 1.25' CNDT'S, LOCATE, EXPOSE (E) BURIED HH, ACCESS (E) FIBER RING (UT), PLACE (N) SPLICE, TRAFFIC CONTROL.

Work will commence on or about MONDAY, DECEMBER 17, 2018 for approximately 3 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.

 (AGENT)
Signature of Applicant - Title12/10/18
Date



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, Bob Lezcano, a duly Licensed Land Surveyor or a Professional Engineer
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. LS 8514,

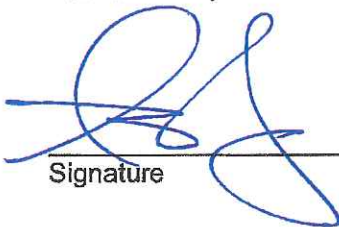
hereby acknowledge and accept all responsibility for the monument preservation as required

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

construction activity permitted by San Joaquin County Permit No. PS-1804238.

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

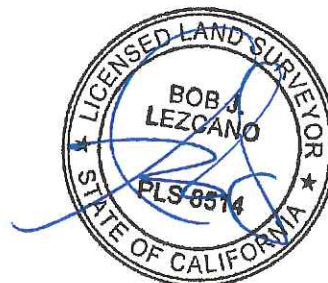
Preservation prior to final acceptance of the construction activity.


Signature

Seal

12-21-18
Date

PS-MONUMENT PRESERVATION





December 21, 2018

Attn: James Hart
San Joaquin County Surveyor
1810 East Hazelton Avenue
Stockton, CA 95205

Re: Monument Preservation-Santa Fe Road, Escalon
Zayo Group Fiber Installation

Dear James:

This letter is to serve as an addendum to the "Acknowledgement of Monument Preservation". I performed records research with the county to determine if there were any monuments of record within the construction area. There were no record monuments anywhere near the subject area. Barring any county precise alignment for Santa Fe road, it appears there are no monuments within the 80 LF of trenching.

I made a visual inspection of the site. The only structure near the subject area are the two facilities that the contractor will be tying into. I have informed the contractor that should they encounter any iron pipes or monuments, that I need to be notified immediately so we can RP out the marker and file necessary Corner Record.

If you have any questions or comments please feel free to contact us at any time at 925-476-8499.

Sincerely,

A handwritten signature in blue ink, appearing to read "Bob Lezcano", is written over the word "Sincerely,".

Bob Lezcano, PLS 8514
Apex Civil Engineering & Land Surveying



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

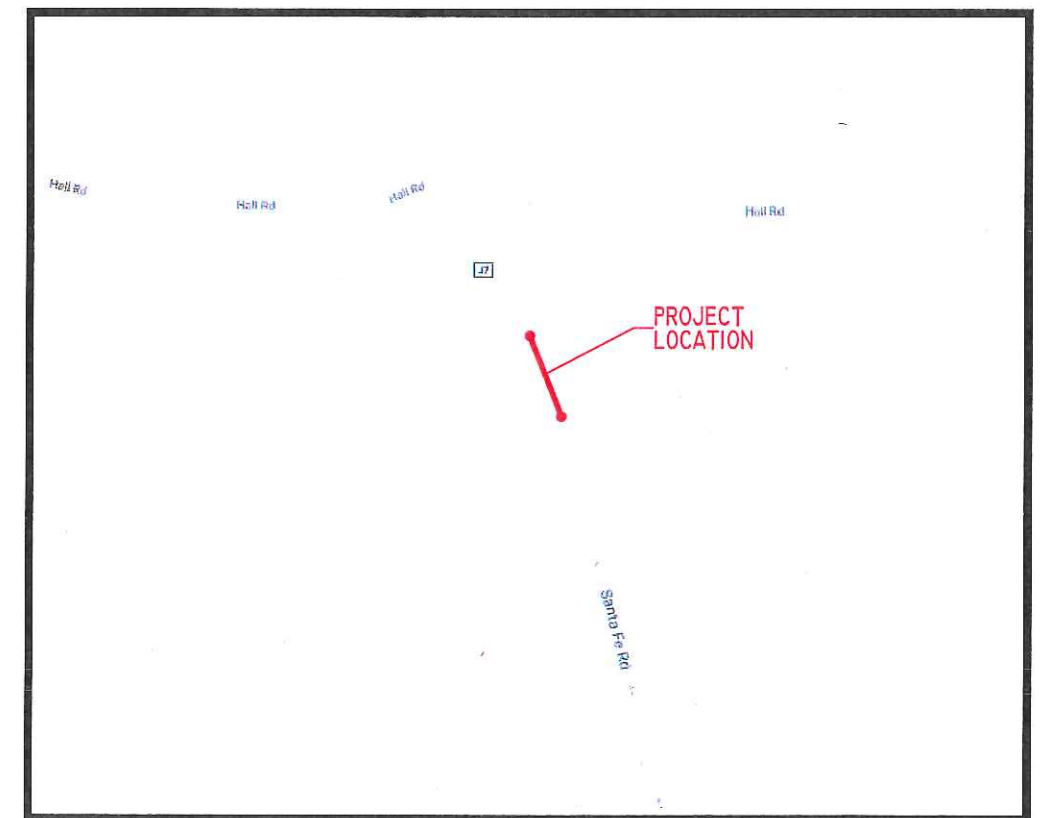
1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather 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.

JURISDICTION(S):
SAN JOAQUIN COUNTY



NEW-BUILD FIBER CONNECTION UNDERGROUND

ZAYO GROUP
ESCALON ISO-0299348
SANTA FE RD
SAN JOAQUIN COUNTY



DRAWING INDEX

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4 & 5	CD-1 & CD-2	CONSTRUCTION DETAILS
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7 - 9	TR-1 THRU TR-3	TRAFFIC CONTROL



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

ZAYO GROUP
PM: MONICA PINO
916-804-0573
MONICA.PINO@ZAYO.COM

Sagebrush Engineering
communication engineers
390 CARROL CT, STE A-1
BRENTWOOD, CA
94513
209-365-3598
BobDurflinger@sagebrushcable.com

[illegible]

ZAYO GROUP
ESCALON ISO-0299348
SANTA FE RD
SAN JOAQUIN COUNTY

SBE JOB NO.:	-
ATT JOB NO.:	-
DESIGNED BY:	BRD
DRAWN BY:	AMC
DATE:	12-10-18
SCALE:	N.T.S.

SHEET #:

T-1

1 OF 9 SHEETS

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY'S STANDARD DETAILS, TECHNICAL SPECIFICATIONS, AND GENERAL REQUIREMENTS.

2. CONTRACTOR SHALL SECURE A STREET OPENING PERMIT FROM THE CITY ENGINEERING DEPT. AND PAY APPROPRIATE FEE PRIOR TO COMMENCEMENT OF WORK. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE DONE UNDER A SINGLE STREET OPENING PERMIT.

3. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE APPROPRIATE UTILITY AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL PUBLIC & PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY. CONTACT UNDERGROUND SERVICE ALERT (USA) AT 800-642-2444.

4. ALL SIDEWALK, CURB, AND GUTTER SHALL BE REMOVED AND REPLACED TO THE NEAREST SCORE MARK OR AS DIRECTED BY THE ENGINEER. INSTALLATION OF NEW SIDEWALK, CURB & GUTTER AGAINST EXISTING IMPROVEMENTS SHALL REQUIRE A SIDEWALK CONTACT JOINT (DOWELS REQUIRED).

5. PARTIAL REPLACEMENT OF A DRIVEWAY IS NOT ALLOWED. A DRIVEWAY THAT HAS BEEN CUT OR DAMAGED MUST BE REPLACED IN ITS ENTIRETY. THE NEW REPLACEMENT DRIVEWAY MUST MEET CURRENT CITY STANDARDS WHICH AFFECT ON-SITE IMPROVEMENTS AND/OR REQUIRE A SIDEWALK EASEMENT.

6. UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER IN THE FIELD: AT EACH LOCATION WHERE NEW CURB/GUTTER IS TO BE INSTALLED ON AN EXISTING STREET (DRIVEWAY INSTALLATION, DRIVEWAY ABANDONMENT, CURB RAMP INSTALLATION, CURB FACE DRAINAGE INSTALLATION, ETC.) PAVEMENT RECONSTRUCTION SHALL BE REQUIRED. AN 18-INCH WIDE BAND OF PAVEMENT SHALL BE REMOVED AND REPLACED ALONG THE ENTIRE LENGTH OF CURB/GUTTER INSTALLATION. REMOVAL DEPTH (SAW CUTS REQUIRED) SHALL BE TO THE BASE MATERIAL ON STREET WITH A.C. OR P.C.C. PAVEMENT FOUR (4) INCHES OR LESS IN THICKNESS. REMOVAL DEPTH SHALL BE TWO (2) INCHES MINIMUM ON STREETS WITH A.C. (GRIND) AND FOUR (4) INCHES MINIMUM ON STREETS WITH P.C.C. (SAW CUT) PAVEMENT THICKNESS GREATER THAN FOUR (4) INCHES. REPLACE WITH A.C. OR P.C.C. (DOWELS REQUIRED) TO MATCH EXISTING PAVEMENT.

7. THE CONTRACTOR SHALL NOTIFY, BY CIRCULAR, ALL BUSINESS ESTABLISHMENTS & RESIDENCES LOCATED IN AREAS AFFECTED BY THE WORK AT LEAST (48) HOURS PRIOR TO START OF CONSTRUCTION. CIRCULAR SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

8. ALL MANHOLES, VALVE BOXES, MONUMENT BOXES, AND OTHER STRUCTURES IN THE PAVEMENT AREA SHALL BE ADJUSTED TO FINISH GRADE BEFORE PAVING FINAL FIFT.

9. GRADE BREAKS ON CURBS AND SIDEWALKS ARE TO BE ROUNDED OFF ON FORM WORK & FINISHED SURFACING.

10. IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE ALL STREET MONUMENTS OR LOT CORNER PIPES DISTURBED DURING THE PROCESS OF CONSTRUCTION. IF A STREET MONUMENT HAS THE POTENTIAL OF BEING DISTURBED, A CORNER RECORD SHALL BE FILED WITH SAN JOAQUIN COUNTY SURVEYOR (PER SECTION 8773.2 OF THE PUBLIC LAND SURVEYORS ACT) AS REQUIRED BY THE SUBDIVISION MAP ACT TO PRESERVE THE LOCATION OF SAID STREET MONUMENT. CONTRACTOR SHALL, AT HIS/HER EXPENSE, HIRE A CIVIL ENGINEER OR LAND SURVEYOR TO PERFORM THE WORK.

11. ALL SURPLUS & UNSUITABLE MATERIAL SHALL BE REMOVED FROM PUBLIC RIGHT OF WAY.

12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL & KEEP MUD & DEBRIS OFF THE PUBLIC RIGHT OF WAY AT ALL TIMES.

13. ALL TRENCHES & EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIF. & FEDERAL O.S.H.A. REQUIREMENTS & OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN & INSTALLATION.

14. EXISTING UTILITIES SHOWN ARE BASED UPON RECORD INFORMATION & ARE APPROXIMATE IN LOCATION & DEPTH. THE CONTRACTOR SHALL POT HOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT, VERIFY ACTUAL LOCATION & DEPTH, & REPORT POTENTIAL CONFLICTS TO THE ENGINEER PRIOR TO EXCAVATING FOR NEW FACILITIES.

15. CONTRACTOR SHALL PERFORM HIS CONSTRUCTION AND OPERATION IN A MANNER, WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEMS. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CITY OF ESCALON NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION.

16. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE PUBLIC RIGHT OF WAY SHALL NOT BE PERMITTED, EXCEPT AT LOCATION(S) APPROVED BY THE CITY TRAFFIC ENGINEER.

17. UNLESS OTHERWISE NOTED, CLASS 2 A.B. UNDER CURB, GUTTER, & STREET SECTIONS PAVED WITH ASPHALT CONCRETE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION (MINIMUM).

18. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE WORK IS STARTED. DEVICES NO LONGER REQUIRED SHALL BE REMOVED AS SOON AS POSSIBLE.

19. PEDESTRIAN TRAFFIC MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS MAY BE RELOCATED ONTO PRIVATE PROPERTY WITH OWNERS PERMISSION ONLY.

20. NO EQUIPMENT OR MATERIALS SHALL BE STORED OR PERMITTED TO STAND UNPROTECTED WHERE TRAFFIC IS MAINTAINED UNLESS IT IS ALLOWED BY THE CITY ENGINEER IN WRITING.

21. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON ROAD SURFACE DURING NON-WORKING PERIODS UNLESS IT IS ALLOWED BY CITY ENGINEER IN WRITING.

22. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON SIDEWALK AT ANYTIME.

23. EXCAVATION MATERIALS SHALL BE STORED AWAY FROM THE PAVED ROADWAY WHENEVER POSSIBLE. ALL SPILLED MATERIAL IS TO BE REMOVED TO AVOID SLIPPERY CONDITIONS.

24. EXISTING SIGNS, DELINEATIONS, GUARDRAILS, MARKERS, TREES, SHRUBS, FENCES, WALKS, STEPS, ETC. THAT ARE DISTURBED BY THIS CONSTRUCTION SHALL BE REPLACED OR RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE ADJACENT PROPERTY OWNERS AND THE CITY OF ESCALON.

CONSTRUCTION NOTES

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

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

3. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. NOT ALL EXISTING UTILITIES ARE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL UTILITIES BY EXPOSING UTILITY CROSSINGS PRIOR TO DIRECTIONAL BORING. THE CONTRACTOR SHALL USE HAND TOOLS AND EXTREME CARE WHEN WORKING IN CLOSE PROXIMITY TO EXISTING UTILITIES.

4. FOR OPEN CUT TRENCHING THE FOLLOWING MINIMUM CLEARANCES SHALL APPLY: A 12" VERTICAL CLEARANCE AT ALL CROSSINGS SHALL BE MAINTAINED BETWEEN PROPOSED CONDUITS AND OTHER EXISTING UTILITIES. A 8" MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PROPOSED CONDUITS AND EXISTING SANITARY SEWER AND STORM DRAIN MAINS THAT RUN PARALLEL, UNLESS APPROVED BY THE CITY. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5' HORIZONTAL CLEARANCE FOR ALL OTHER UTILITIES UNLESS OTHERWISE APPROVED BY THE CITY, EXCEPT WHEN AT THE SAME ELEVATION AS WATER MAINS, 8' HORIZONTAL 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, IF MORE RESTRICTIVE.

(A) LOCATE HDD 8 FT. CLEAR (HORIZONTALLY) FROM THE EXISTING STORM DRAIN & SANITARY SEWER MAINS. MINIMUM OF 5' HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM WATER MAINS, EXCEPT WHEN AT THE SAME ELEVATION AS WATER MAINS, 8 FT. HORIZONTAL CLEARANCE SHALL BE MAINTAINED. MINIMUM OF 5 FT. HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM FIRE HYDRANTS, ELECTRICAL CONDUITS, BOXES, & VAULTS.

(B) USE THE FOLLOWING CHART FOR MINIMUM DEPTH OF COVER (IN THE PAVEMENT & SIDEWALK AREAS) & MINIMUM CLEARANCE WHEN CROSSING UTILITIES (STORM DRAIN, SANITARY SEWER, WATER, ELECTRICAL, GAS, ETC.). CROSSING SHALL BE AT 90-DEGREE.

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 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 MAINTAINED AND PROTECTED. LOOPS OR CONDUITS DAMAGED 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 SPLICE BOXES ARE SHOWN ON THE PLANS. EXACT FINAL LOCATION OF SPLICE 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 SPLICE BOXES SHALL BE SET FOR FUTURE SIDEWALK INSTALLATION IN SPECIFIED LOCATIONS. ALL SPLICE BOXES SHALL BE PLACED WITH PEDESTRIAN TRAFFIC SAFETY IN MIND UNTIL ALL WORK IS COMPLETE.

11. THE CITY WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO POT HOLING ANY CITY WATER OR RECLAIMED WATER MAINS OR SERVICES.

CITY ARBORIST NOTES:

1. NO TRENCHING SHALL BE DONE WITHIN THE DRIPLINE OF EXISTING TREES WITHOUT THE APPROVAL OF THE CITY ARBORIST. OPEN TRENCHING IN THE ROOT ZONE OF A PUBLIC TREE IS PROHIBITED EXCEPT IN CASES WHERE THE TRENCHING FALLS OUTSIDE THE TREE INVOLVED. EXCEPTIONS WILL BE ALLOWED IF, IN THE OPINION OF THE CITY ARBORIST, THE IMPACT OF TRENCHING UPON THE TREE WILL BE NEGLIGIBLE.

2. NO CUTTING OF ANY PART OF CITY TREES, INCLUDING ROOTS SHALL BE DONE WITHOUT SECURING APPROVAL AND DIRECT SUPERVISION FROM THE CITY ARBORIST.

3. NO CUTTING OF ANY PART OF PRIVATE TREES, INCLUDING ROOTS, SHALL BE DONE WITHOUT SECURING SUPERVISION OF A CERTIFIED ARBORIST (CERTIFICATION OF INTERNATIONAL SOCIETY OF ARBORICULTURE).

4. BORE OUTSIDE THE DRIPLINE OF ALL TREES TO PREVENT ROOT DAMAGE. NO BORE PITS ARE ALLOWED WITHIN THE DRIPLINE OF ANY EXISTING TREE.

5. TUNNELING: ALL PUBLIC TREES IN EXCESS OF 5" DBH, WHERE THERE IS INSUFFICIENT SPACE TO BYPASS THE DRIPLINE BY TRENCHING, MUST BE TUNNELED. THE BEGINNING/ ENDING DISTANCE OF THE TUNNEL FROM THE FACE OF THE TREE IN ANY DIRECTION IS DETERMINED BY THE DIAMETER OF THE TREE AS SPECIFIED BY THE ACCOMPANYING TABLE:

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

LEGEND

	PROPOSED NEW CONDUIT
	PROPOSED AERIAL ROUTE
	PULL THRU (E) CUST. CNDT
	PROPOSED ATT LEASE
	ATT CONDUIT VERIFIED (NO PATH)
	EXISTING NEXTLINK/XO CONDUIT
	EXISTING BFC CONDUIT
	EXISTING MFS CONDUIT
	EXISTING CONDUIT(S)
	EXISTING PG&E NATURAL GAS
	EXISTING AIR PRODUCTS NITROGEN MAIN
	EXISTING TELEPHONE, GAS, AND ELECTRIC
	EXISTING GAS AND ELECTRIC
	EXISTING RECLAIMED WATER
	EXISTING POINT TO POINT CONDUIT
	EXISTING WATER
	EXISTING ELECTRIC
	EXISTING TELEPHONE
	EXISTING TRAFFIC SIGNAL CONDUIT
	EXISTING STREET LIGHTING CONDUIT
	SUBSCRIBER CONDUIT
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING SVP FIBER OPTIC CONDUIT
	TRAFFIC SIGNAL INTERCONNECT
	TEMPORARY BORE PIT
	PROPOSED NEW SPLICE BOX
	EXISTING PEDISTAL
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING LIGHT POLE
	EXISTING TRAFFIC SIGNAL POLE
	EXISTING JOINT POLE
	EXISTING SPLICE BOX
	EXISTING WATER METER
	EXISTING WATER VALVE
	EXISTING GAS VALVE
	STORM GRATES
	EXISTING TREE

ABBREVIATIONS

ACP	ASBESTOS CEMENT PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
CL	CENTER LINE
CONC	CONCRETE
CSB	CUSTOMER SPLICE BOX
DSP	DRY STAND PIPE
DWG	DRAWING
E	ELECTRIC
EXIST	EXISTING
FA	FIRE ALARM
FRID	FIRE RATED INNER DUCT
FOC	FACE OF CURB
G	GAS
HDPE	HIGH DENSITY POLYETHYLENE
HV	HIGH VOLTAGE
IC	INNER CONNECT
LV	LOW VOLTAGE
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
MPOE	MINIMUM POINT OF ENTRY
NXLK	NEXTLINK
PBSB	PACIFIC BELL SPLICE BOX
PBMH	PACIFIC BELL MANHOLE
PIV	POST INDICATOR VALVE
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
S	SUBSCRIBER
SB	SPLICE BOX/ SUBSCRIBER BOX
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SL	STREET LIGHT
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
SVP	SILICON VALLEY POWER
T	TELEPHONE
TS	TRAFFIC SIGNAL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
W	WATER
WM	WATER METER
WV	WATER VALVE
W-W	WALL TO WALL

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BOB DURFLINGER
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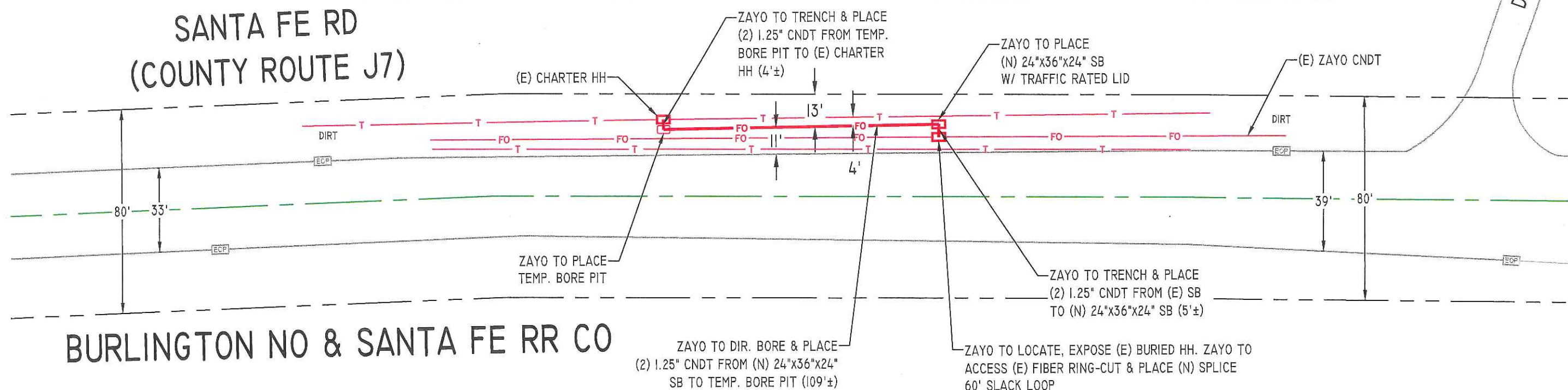
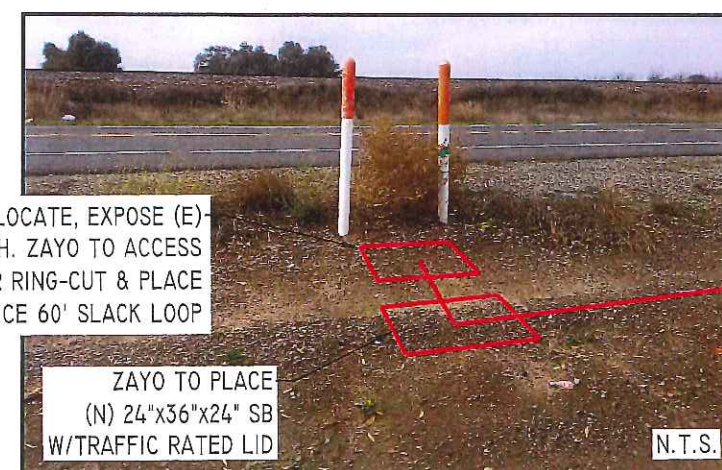
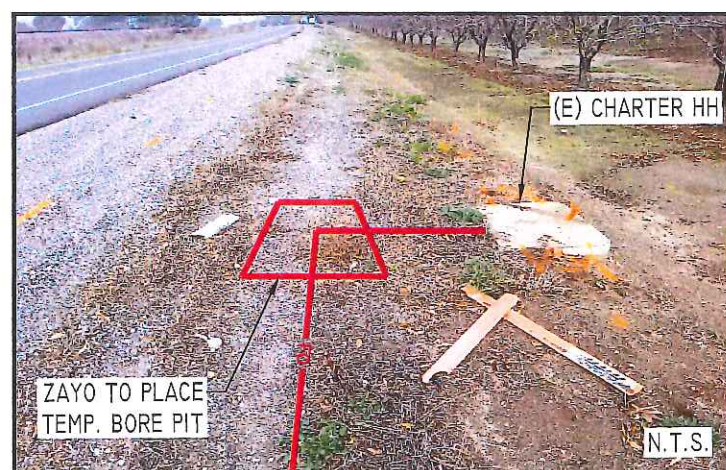
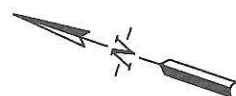
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No.	DATE	BY	DESCRIPTION	APRVD
0	12-10-18	AMC	ISSUED FOR REVIEW	SBE

ZAYO GROUP
ESCALON ISO-0299348
SANTA FE RD
SAN JOAQUIN COUNTY

SBE JOB NO.:	-	SHEET #: <div>G-1</div> <div>2 OF 9 SHEETS</div>
ATT JOB NO.:	-	
DESIGNED BY:	BRD	
DRAWN BY:	AMC	
DATE:	12-10-18	
SCALE:	N.T.S.	



LEGEND:

PROPOSED NEW-BUILD = — FO —
(E) CNDT = — FO —



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JURISDICTION(S):
SAN JOAQUIN COUNTY

BUILD FOOTAGE
(N) UG BUILD

= 118'±

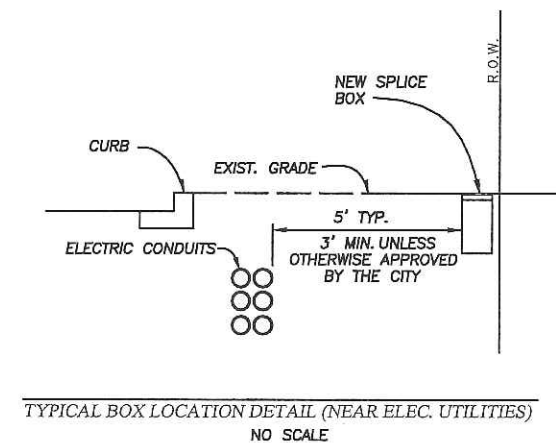
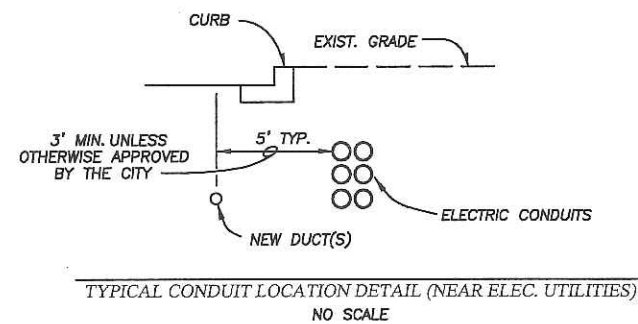
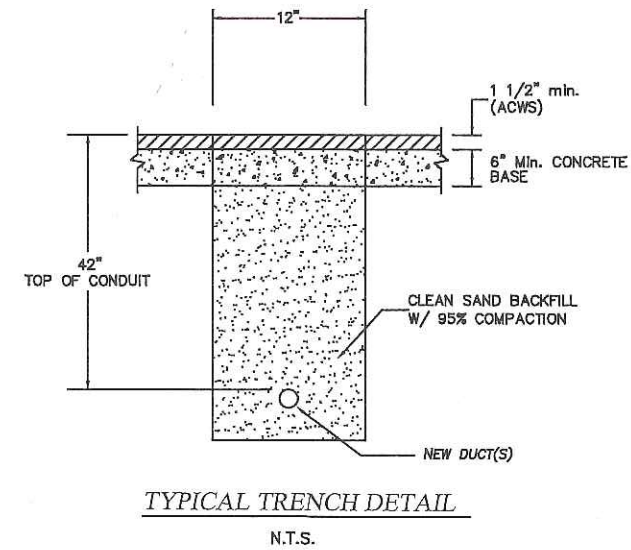
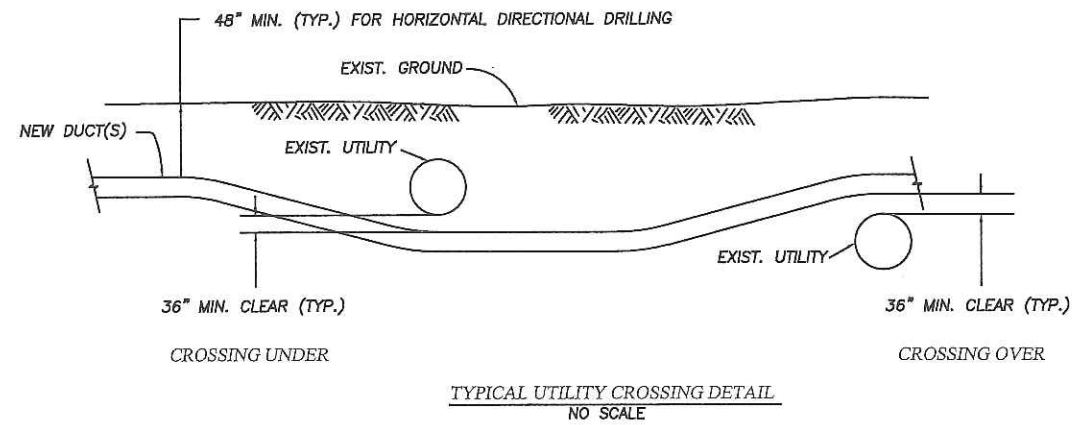
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DATE: 12-10-18
SCALE: 1" = 40'

SHEET #:
C-1
3 OF 9 SHEETS



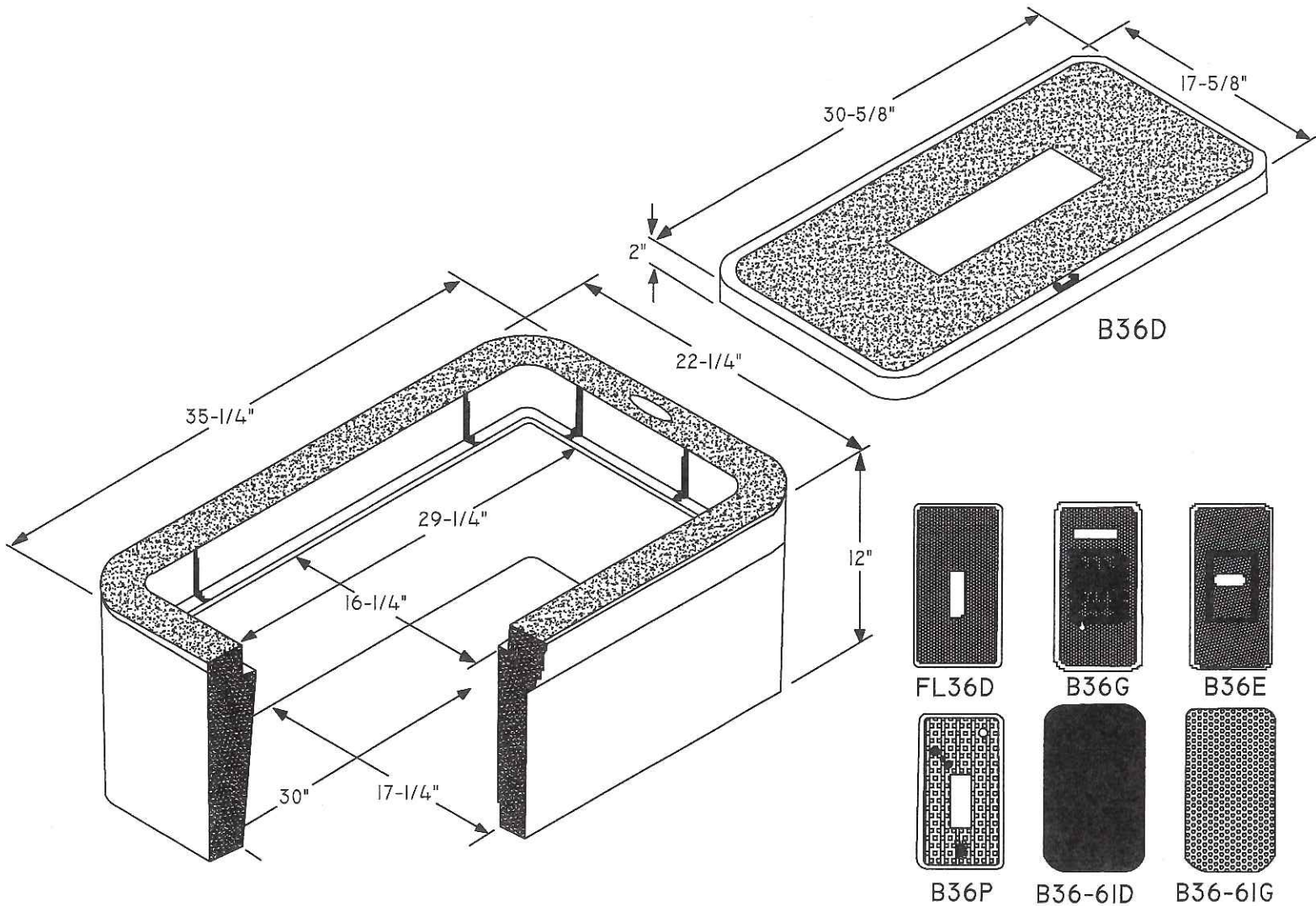
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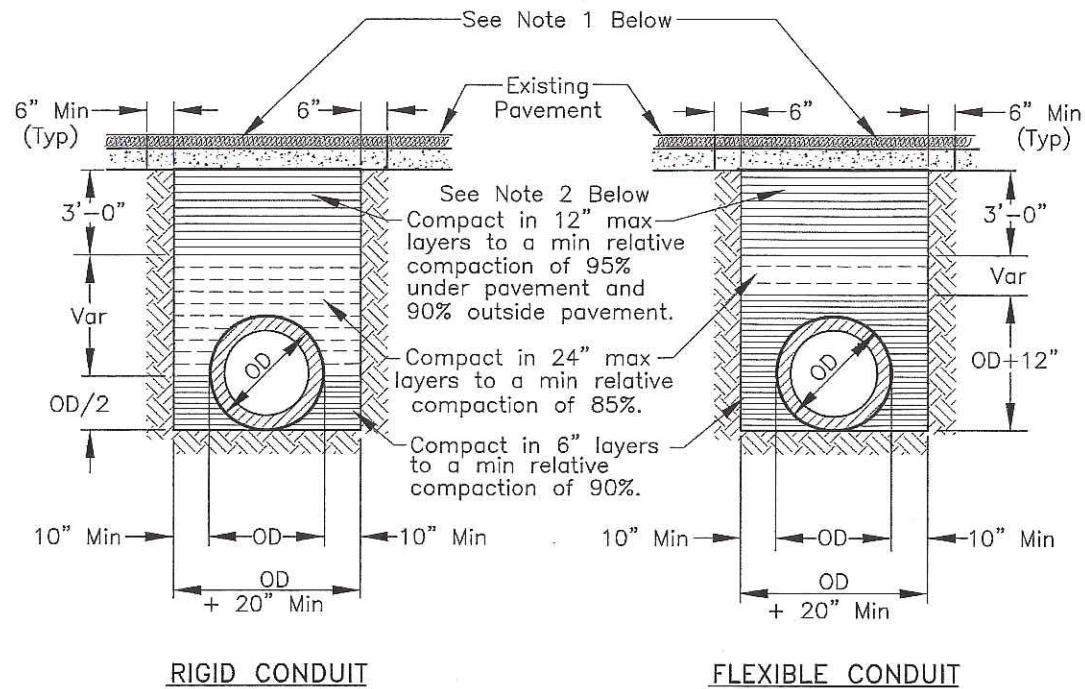
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SCALE:	N.T.S.

SHEET #:	CD-1
4 OF 9 SHEETS	



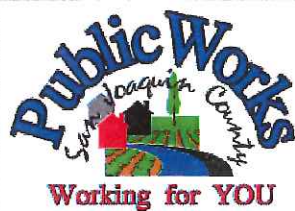
B-36 SPLICE BOX DETAIL

SCALE: NOT TO SCALE



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

Date: DEC 2014

Approved by:

Thomas M. Gell

No.	Revision	Description	Date

Std. Dwg. No.

R-29

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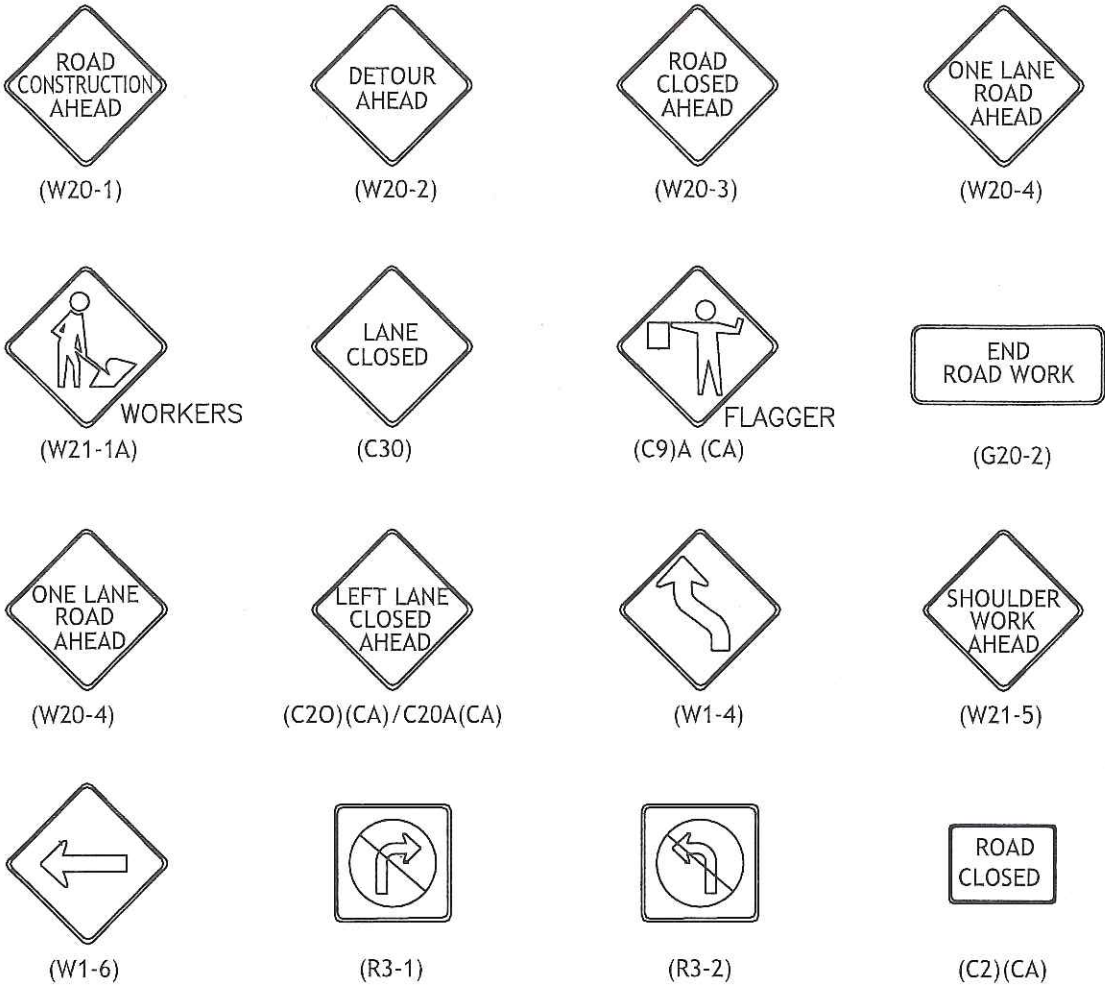
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ATT JOB NO.: -
DESIGNED BY: BRD
DRAWN BY: AMC
DATE: 12-10-18
SCALE: N.T.S.

SHEET #:

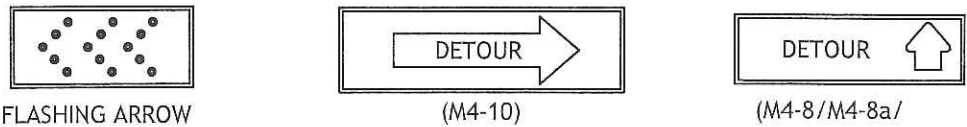
CD-3

6 OF 9 SHEETS

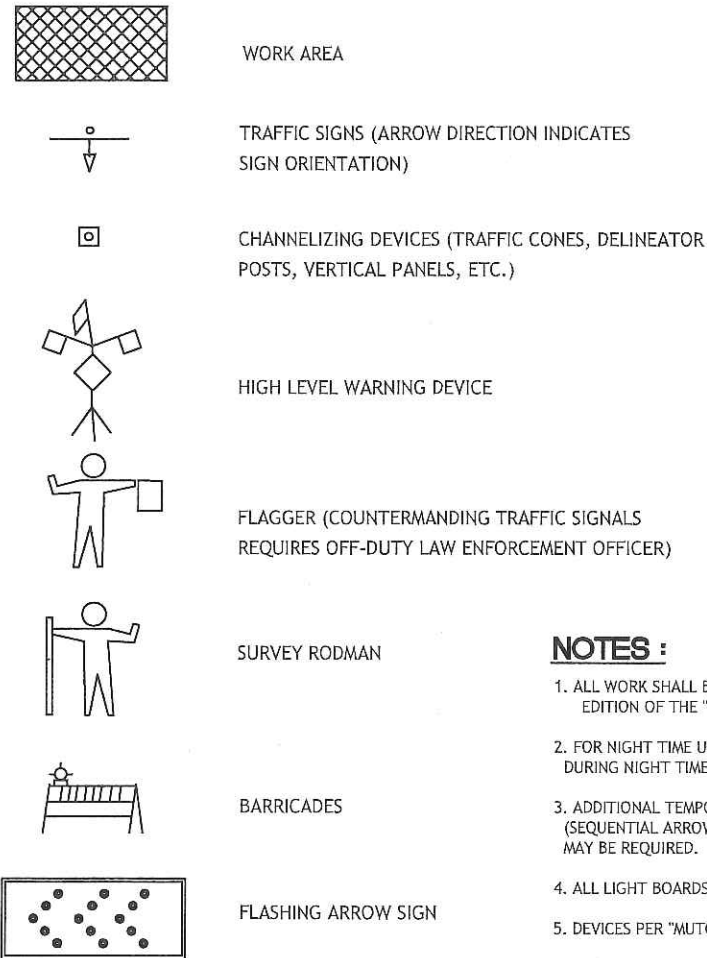
WARNING SIGNS AND GUIDE SIGNS



WARNING 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 USAGE, 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 LOCATION IN STREET INCLUDING BORE PITS, POT HOLES AND EXCAVATION/TRENCHES.

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

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	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***	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

** THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6H-1 THROUGH 6H-4.6. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND 3RD SIGNS. (THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TTC ZONE.

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

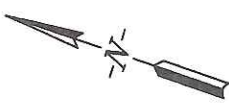
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ATT JOB NO.: -
DESIGNED BY: BRD
DRAWN BY: AMC
DATE: 12-10-18
SCALE: N.T.S.

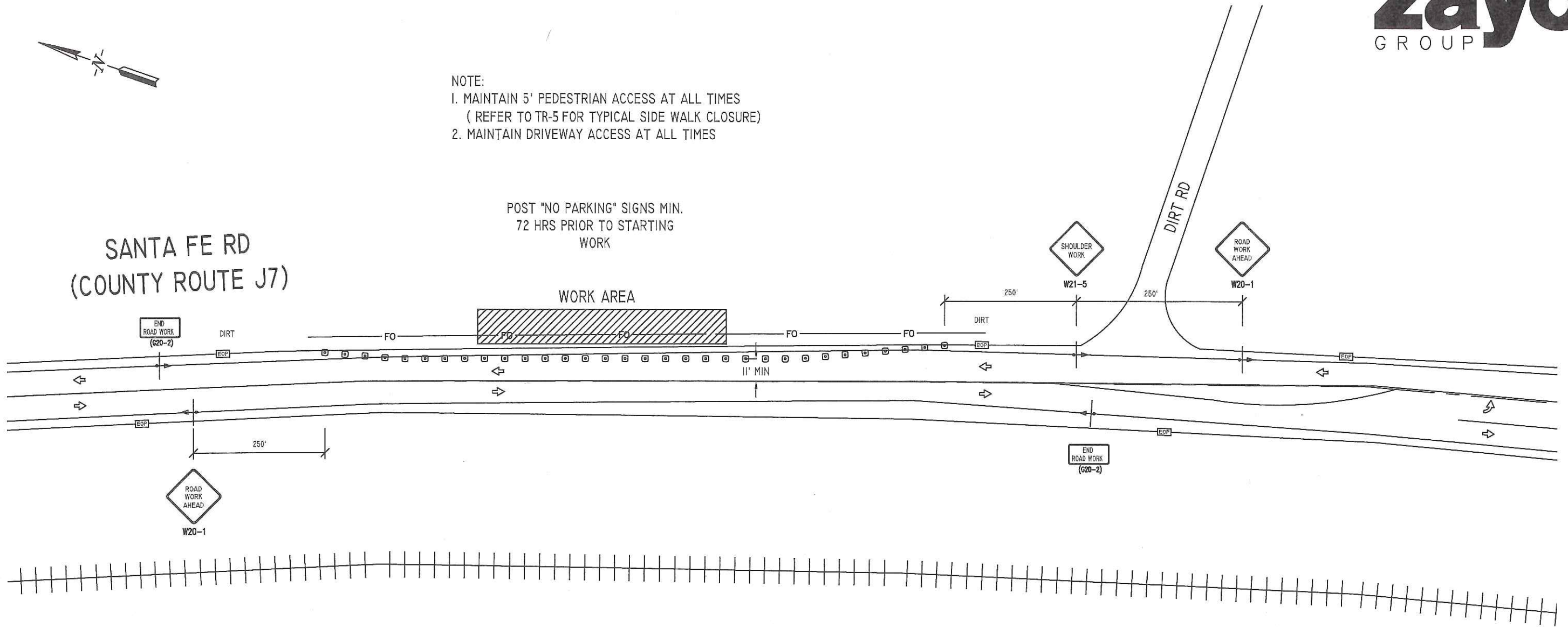
SHEET #:
TR-1
7 OF 9 SHEETS



- NOTE:
- 1. MAINTAIN 5' PEDESTRIAN ACCESS AT ALL TIMES
(REFER TO TR-5 FOR TYPICAL SIDE WALK CLOSURE)
 - 2. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES

SANTA FE RD
(COUNTY ROUTE J7)

POST "NO PARKING" SIGNS MIN.
72 HRS PRIOR TO STARTING
WORK



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

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	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***	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

** THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6H-1 THROUGH 6H-4. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE 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 SIGNS. (THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TTC ZONE.)

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

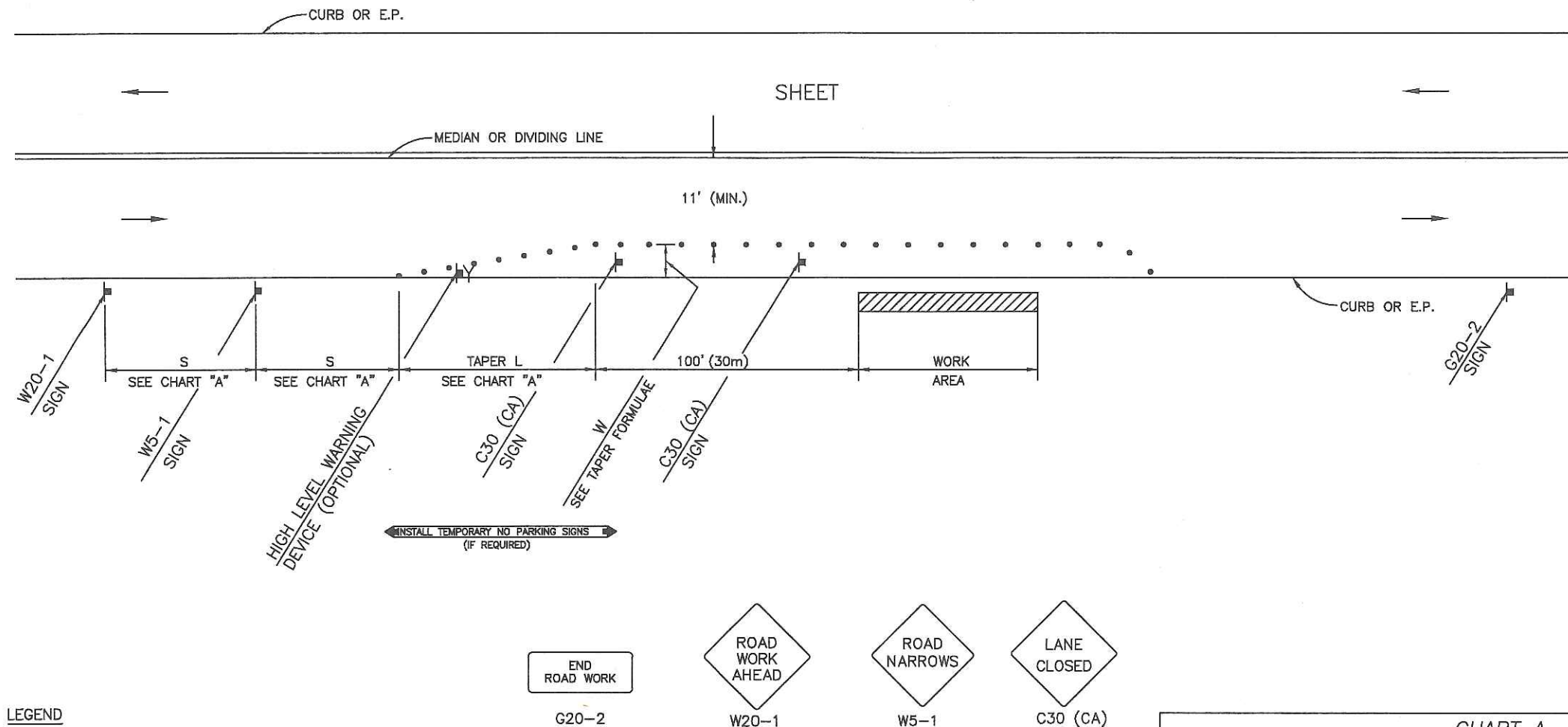
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SAN JOAQUIN COUNTY

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ATT JOB NO.:	-
DESIGNED BY:	BRD
DRAWN BY:	AMC
DATE:	12-10-18
SCALE:	1" = 40'

SHOULDER CLOSURE



LEGEND

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

- CHART A -
MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

TRAFFIC SPEED	TAPER LENGTH (EACH LANE)	DELINEATOR SPACING (TAPER)	DELINEATOR SPACING (TANGENT)	SIGN SPACING (ADVANCE OF TAPER & BETWEEN SIGNS)
25 MPH (40 KM/H)	150 FT. (50M)	25 FT. (8M)	50 FT. (15M)	150 FT. (50M)
30 MPH (45 KM/H)	200 FT. (60M)	30 FT. (9M)	60 FT. (18M)	200 FT. (60M)
35 MPH (50 KM/H)	250 FT. (75M)	35 FT. (11M)	70 FT. (21M)	250 FT. (75M)
40 MPH (60 KM/H)	350 FT. (110M)	40 FT. (12M)	80 FT. (24M)	350 FT. (110M)
*45 MPH (70 KM/H)	550 FT. (170M)	45 FT. (14M)	90 FT. (27M)	550 FT. (170M)
*50 MPH (80 KM/H)	800 FT. (240M)	50 FT. (15M)	100 FT. (30M)	600 FT. (180M)
*55+ MPH (85 KM/H)	1000 FT. (300M)	50 FT. (15M)	100 FT. (30M)	1000 FT. (300M)

***NOTES:**

- DISTANCES SHOWN ARE APPROXIMATE AND SHOULD BE SHIFTED ACCORDING TO EXISTING STREET CONDITIONS TO ACCOMMODATE MINIMUM TAPER LENGTH DISTANCE FOR A SPECIFIED SPEED.
- DISTANCES SHOWN IN PARENTHESES ARE APPROXIMATE.
- WHEN PREVAILING SPEED OF TRAFFIC IS 45 MPH (70 KM/H) OR GREATER,
 - A FLASHING ARROW SIGN SHOULD BE USED FOR EACH LANE CLOSED.
 - MINIMUM HEIGHT FOR TRAFFIC CONES SHOULD BE 28 IN. (0.7 M)
 - MINIMUM OF TWO OF THE LANE CLOSURE SIGNS (C20) SHOULD BE POSTED IN ADVANCE OF A LANE CLOSURE DELINEATION.

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No.	DATE	BY	DESCRIPTION	APRVD
0	12-10-18	AMC	ISSUED FOR REVIEW	SBE

ZAYO GROUP
ESCALON ISO-0299348
SANTA FE RD
SAN JOAQUIN COUNTY

SBE JOB NO.:
ATT JOB NO.:
DESIGNED BY: BRD
DRAWN BY: AMC
DATE: 12-10-18
SCALE: N.T.S.

SHEET #:
TR-3
9 OF 9 SHEETS