



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-1900175
Date Issued: 01/23/2019
Start Date: 01/23/2019
Exp. Date: 05/01/2019
Project No: PWP730052
Quad:

UE/CR/PM NO:91218300001

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - STOCKTON
PO BOX 930
STOCKTON, CA 95201

Encroachment Type:

Bore (up to 12 inch Dia)			
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Location:

MINER AV; ORO AV; E FREMONT ST; CARIDNAL AV; WHITE LN; FRESNO AV; ARCH AIRPORT RD

In compliance with your request of **01/23/2019**, 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

Est. Permit Fee: \$1,050.00

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 10/17/2018

To: San Joaquin County
Department of Public Works

Mears Group, Inc. on behalf of Pacific Gas & Electric Co.

(Applicant Name)

2021 Omega Road Suite 110

(Mailing Address)

San Ramon, CA, 94583

(City, State, Zip Code)

Mears - Jennie Keyes: 989-330-1421/PG&E - Brian Discka: 925-324-1128

(Area Code - Telephone Number)

Mears - jennie.keyes@mears.net/PG&E - B1D8@pge.com

(Email Address)

OFFICE USE ONLY

JOB # 730052 REF # _____

APN _____ CR # _____

EXP. DATE _____

VALID _____ TO _____

STREET _____

AREA _____ QUAD _____

TYPE _____

FORMS _____

NOTES _____

DRIVEWAYS:

* _____

* _____

* _____

Sketch (Detailed plans may be submitted)

Please see attached for Site Drawings and Traffic Control Plans.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the all side of various streets, listed below for approximately 3.9 feet/mile miles

of E. Miner Ave., N. Oro Ave., E Fremont St., Cardinal Ave., White Ln., S. Fresno Ave., Arch Airport Rd., by performing the following work (description of work):

Rolling survey with a small crew using hand held tools to drill 1/2" holes every 10 ft to measure cathodic protection on an existing PG&E gas line.

Holes will only be drilled to top of soil and no deeper. We are proposing to use Typical Traffic Control plans from the MUTCD handbook.

The sites will be restored using Quikrete Concrete & Blacktop repair (full specs attached) or to the specifications of the permit.

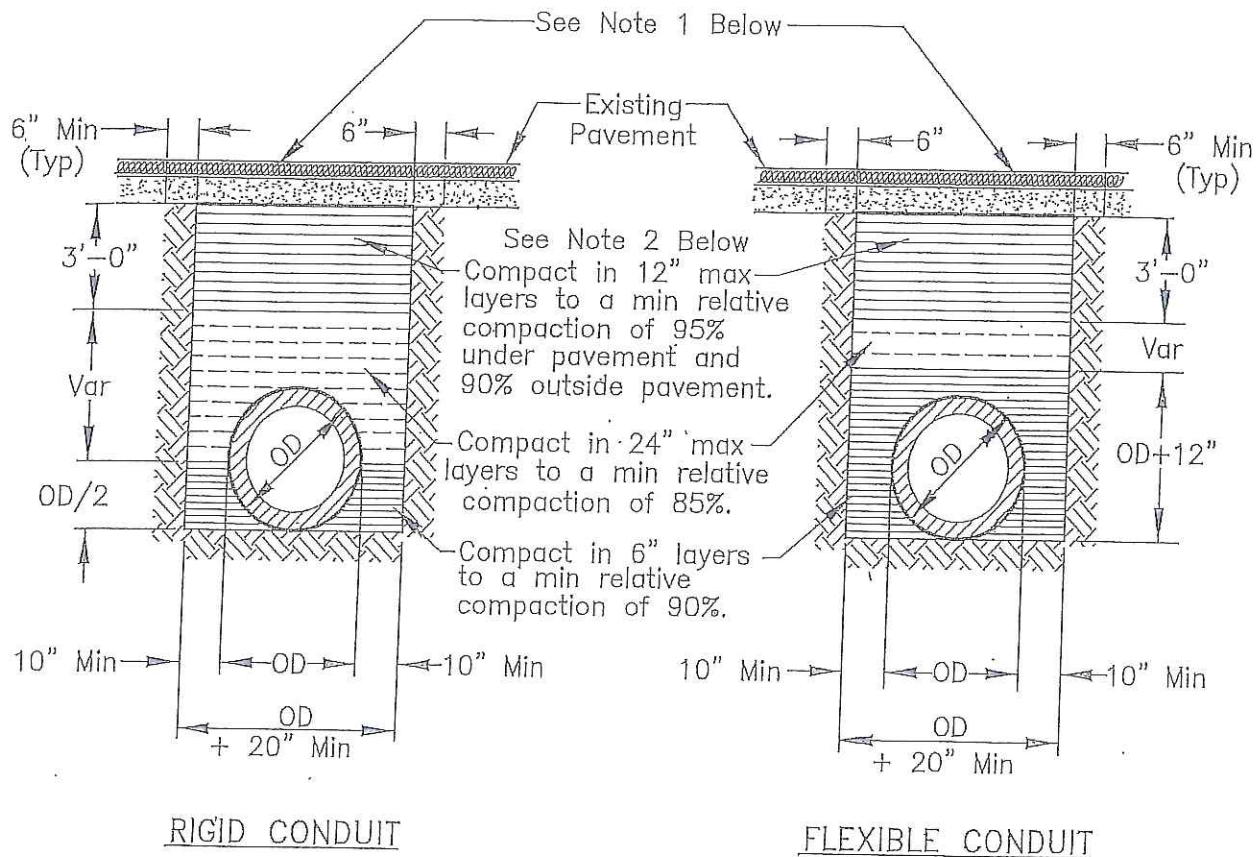
Where the pipeline is under soft surface such as gravel or soil, no drilling required. All work is on behalf of PG&E and PG&E will maintain all responsibility for the site and all restoration within the County's Right-of-Way.

Work will commence on or after ~~1/16/2019~~ 1/1/2019 for approximately 30 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Signature of Applicant - Title

Date



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Thomas M. Gull

No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

R-29

SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by PACIFIC GAS & ELECTRIC, including any facilities that are abandoned in place. PACIFIC GAS & ELECTRIC 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 PACIFIC GAS & ELECTRIC's expense. (Streets and Highways Code Section 1463)
10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

11. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
12. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
14. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
15. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
16. 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.
17. 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.
18. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
19. The contractor shall not conduct construction operations in rain or heavy fog conditions.

2-5.0 TRENCH CUT POLICY

2-5.01 General Requirements

- A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.
- B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.
- C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.
- D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.
- E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.
- F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.
- G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.
- H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

2-5.02 Collectors, Arterials and Expressways

- A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.
- B. Surfacing Age Three (3) Years and Over:
 - 1. Longitudinal Trench Cutting in Paved Shoulder

Areas:

The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. Cross-cutting is allowed under the same conditions as Section 2-5.02B-3. If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

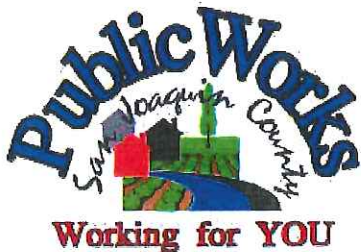
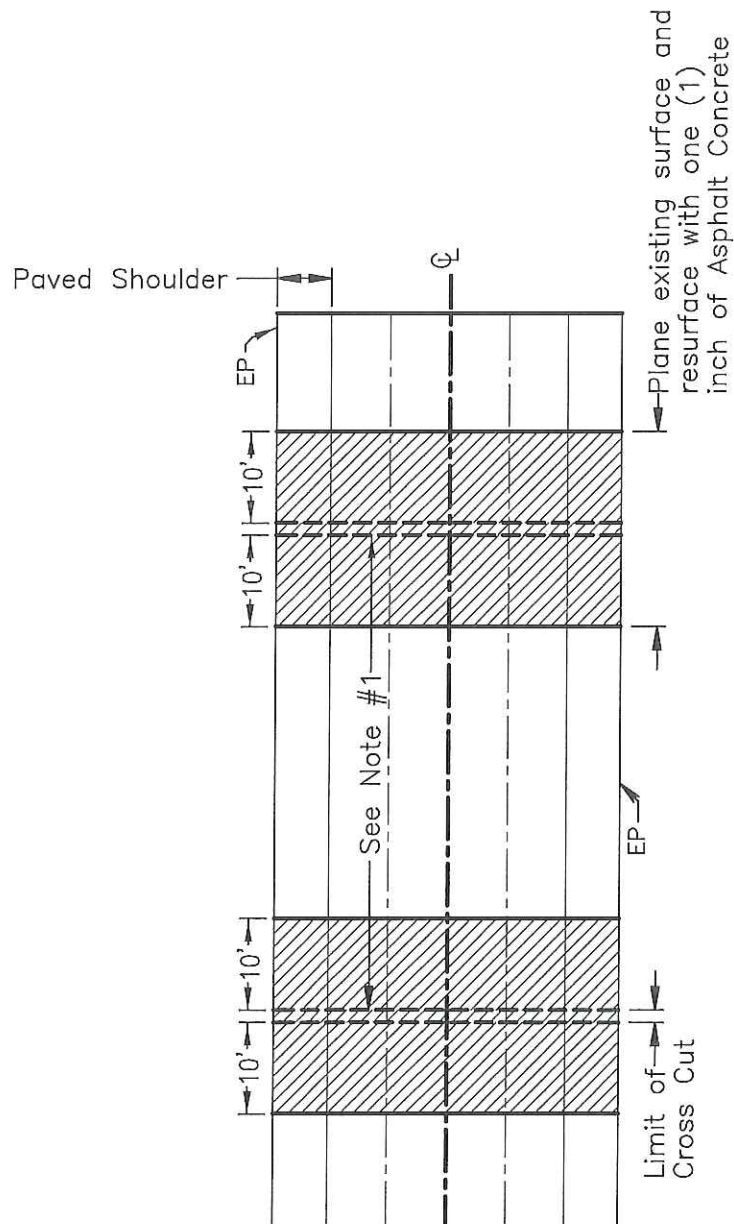
2-5.04 Exceptions

Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

- A. An emergency that endangers life or property.
- B. For repair or modification to prevent interruption of essential utility service.
- C. For relocation work that is mandated by County, State or Federal law.
- D. For service for buildings where no other reasonable means of providing service exists.
- E. For potholing to verify utility depth or location.
- F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

1. If the distance between cross-cuts are less than 150' the entire area between cross-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resurfaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less than 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03B-2.



COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Thomas M. Hall

No.	Revision	Description	Date

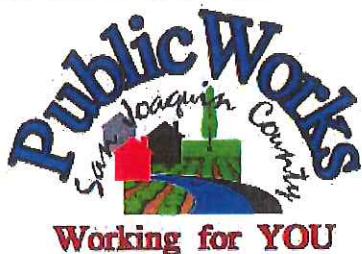
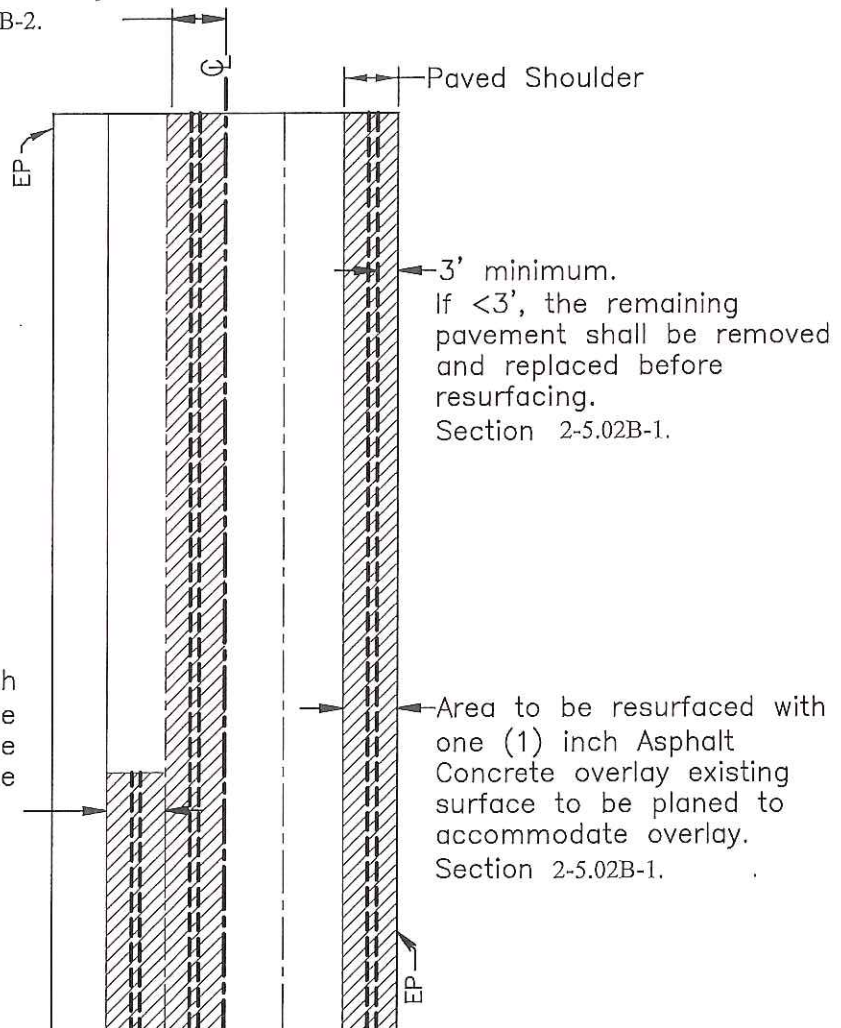
Std. Dwg. No.

R-36

NOTES:

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03B-1.

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay. Section 2-5.02B-2.



**TRENCH CUTTING POLICY
LONGITUDINAL CUTTING
OF COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

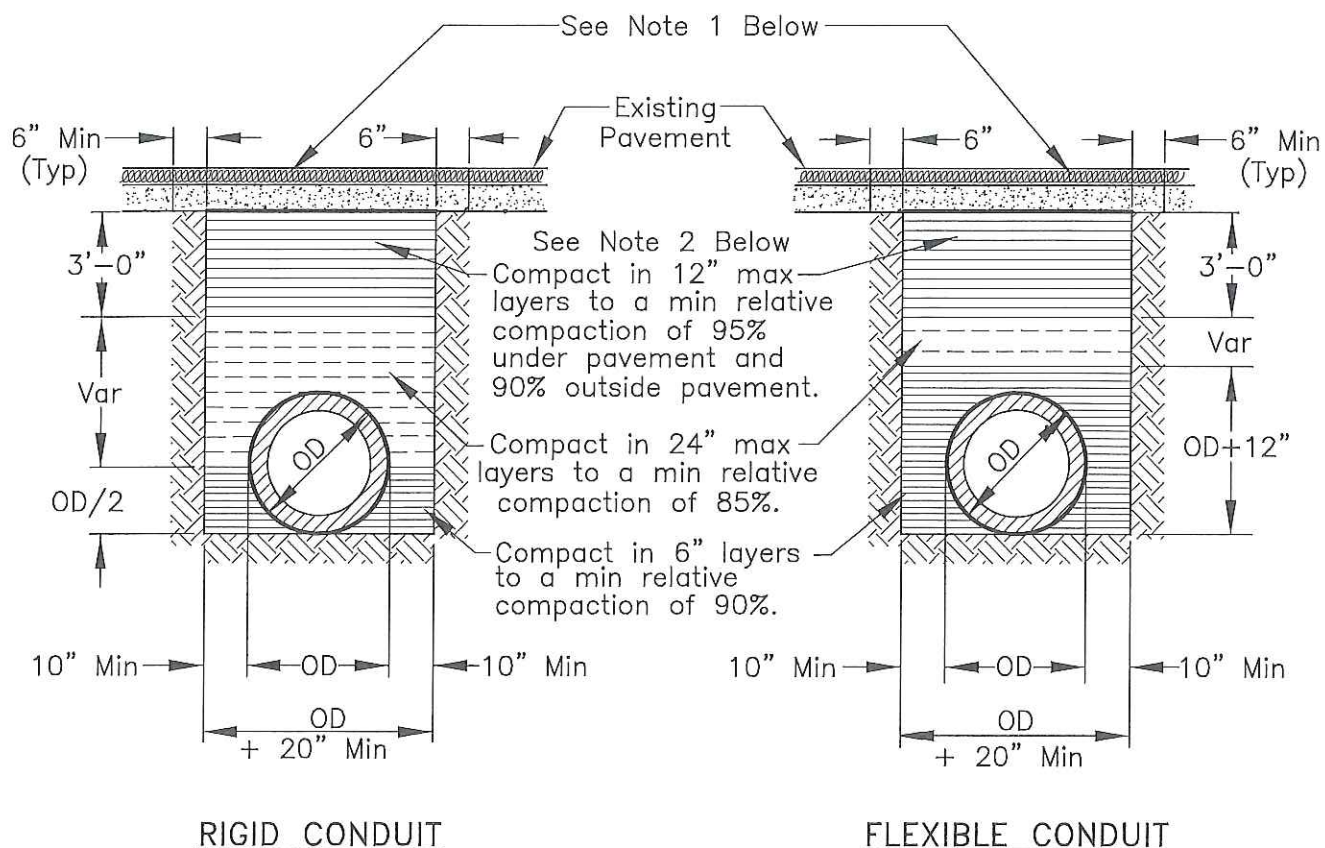
Approved by:

Thomas M. Hall

No.	Revision	Description	Date

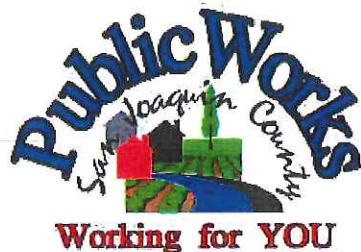
Std. Dwg. No.

R-37



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

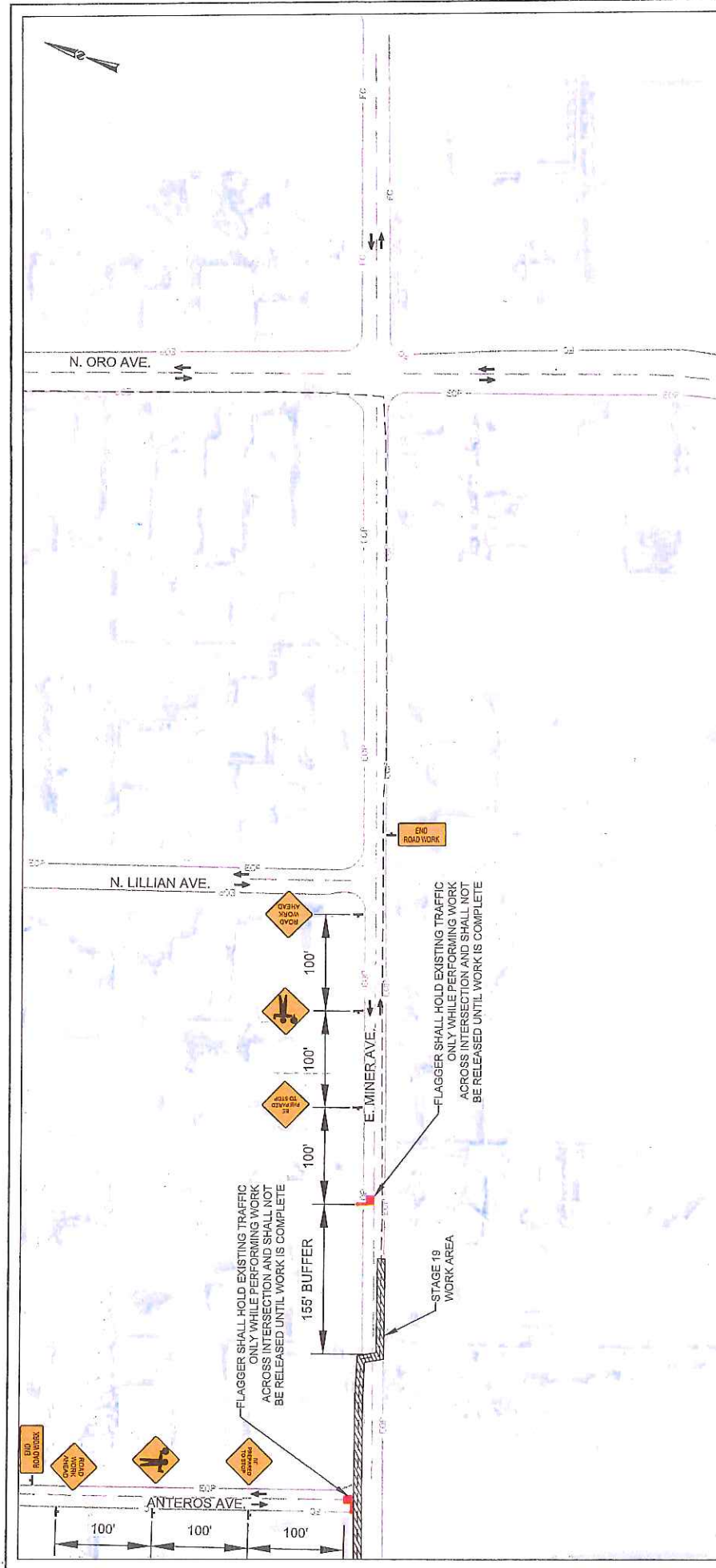
Thomas M. Gull

No.	Revision	Description	Date

Std. Dwg. No.

R-29

Date: DEC 2014



- GENERAL NOTES:**
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
 2. CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
 3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
 4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
 5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TESTED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
 6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
 7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
 8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
 9. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
 10. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

EC18-1609 - TRAFFIC CONTROL PLAN
SECTION 2
1609-01
STOCKTON, CALIFORNIA

TABLE 1			TABLE 2				LEGEND		
SPEED (MPH)	MINIMUM TAPER LENGTH		DISTANCE BETWEEN SIGNS (FEET)				ARROW PANEL		FLAGGER
	MERCING SHIFTING SHOULDER L/2	DOWN STREAM L/3	A	B	C				
25	135	63	42	50	100	100	100		FLAG TREE
30	180	90	80	50	250	250	250		PORTABLE SIGN
35	245	123	82	60	350	350	350		TYPE 2 OR 3
40	320	160	107	50	500	500	500		BARCODE
45	540	270	180	60	1,000	1,500	2,640		DIRECTION OF TRAVEL
50	890	390	260	90					TRAFFIC LANE/DELINEATOR
55	1,600	330	220	50					DIRECTION OF TEMPORARY TRAFFIC DETOUR
									DETOUR ROUTES

LEGEND

- FLAGGER
- FLAG TREE
- PORTABLE SIGN
- TYPE 8 OR 3 BARRICADE
- TRAFFIC CONE / DELINEATOR
- DIRECTION OF TRAVEL
- DIRECTION OF TEMPORARY TRAFFIC DETOUR
- DETOUR ROUTES

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811
Know what's below. Call before you dig.

Mears Group, Inc.
400 N. GARDEN ST., SUITE 200
STOCKTON, CA 95210
TEL: (209) 433-2433
FAX: (209) 433-2433

REVISIONS

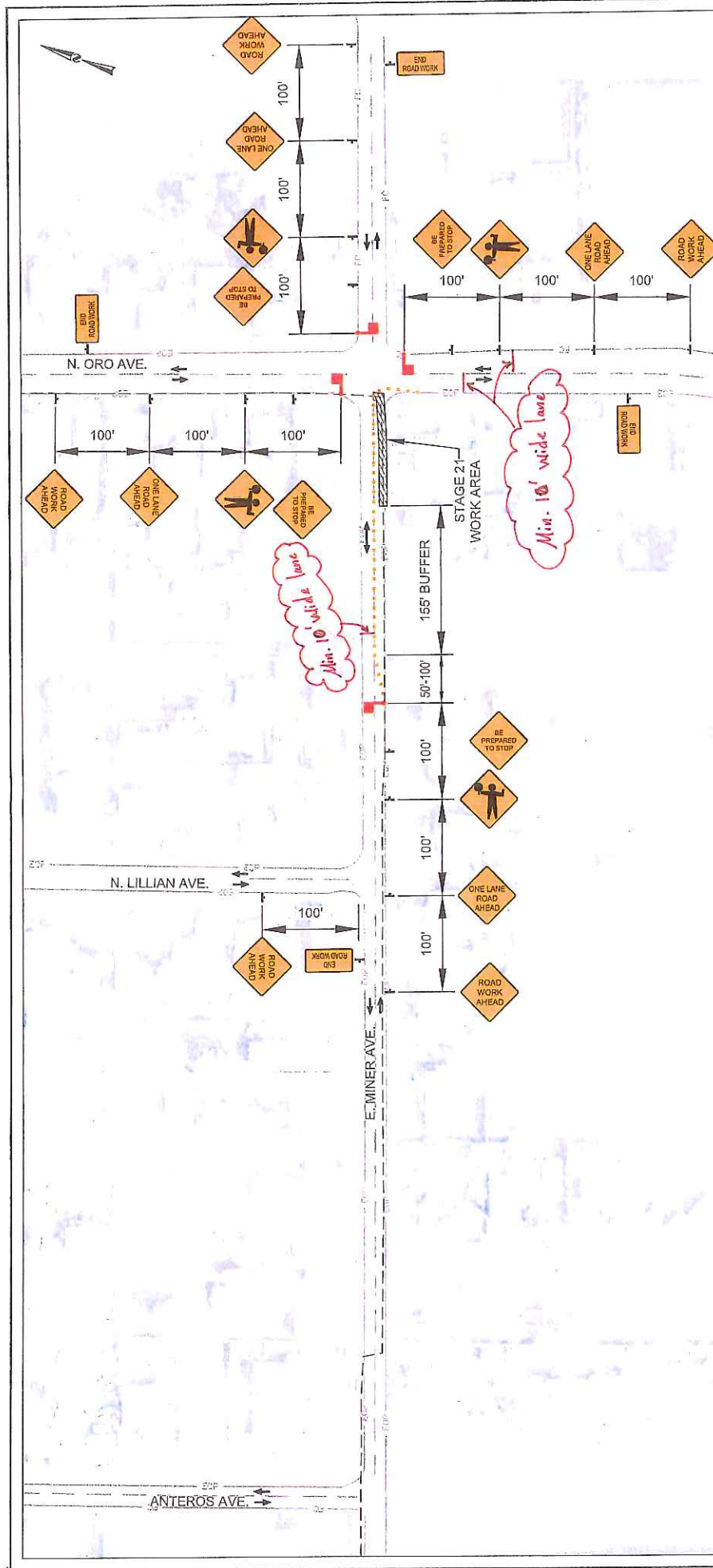
NUMBER	DESCRIPTION	BY	DATE (M/D/Y)
1			
2			
3			
4			

APPROVED

DESIGNED: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

SCALE: 1" = 100'
DATE: 09/28/2018
JOB NUMBER: 1609-01
FILE NAME: EC18-1609-01.dwg
TYPE: PLT
PLOT NO.: EC18-1609-01.dwg
SHEET: 2 OF 42

TABLE 1		TABLE 2		LEGEND	
MINIMUM TRAILER LENGTH (FEET)	ROAD TYPE	A	B	C	ARROW PANEL
100	URBAN-25 MPH OR LESS	100	100	100	ARROW BOARD (SHOW ARROW DOWN)
125	URBAN-35 MPH TO 40 MPH	200	250	250	TRAFFIC CONE / DEMARCATOR
150	URBAN-40 MPH TO 45 MPH	300	350	350	TYPE 2 OR 3
175	URBAN-45 MPH TO 50 MPH	400	450	450	PORTABLE SIGN
200	URBAN-50 MPH TO 55 MPH	500	550	550	FLUORESCENT SIGN
225	URBAN-55 MPH TO 60 MPH	600	650	650	FLUORESCENT SIGN
250	URBAN-60 MPH TO 65 MPH	700	750	750	FLUORESCENT SIGN
275	URBAN-65 MPH TO 70 MPH	800	850	850	FLUORESCENT SIGN
300	URBAN-70 MPH TO 75 MPH	900	950	950	FLUORESCENT SIGN
325	URBAN-75 MPH TO 80 MPH	1,000	1,050	1,050	FLUORESCENT SIGN
350	URBAN-80 MPH TO 85 MPH	1,100	1,150	1,150	FLUORESCENT SIGN
375	URBAN-85 MPH TO 90 MPH	1,200	1,250	1,250	FLUORESCENT SIGN
400	URBAN-90 MPH TO 95 MPH	1,300	1,350	1,350	FLUORESCENT SIGN
425	URBAN-95 MPH TO 100 MPH	1,400	1,450	1,450	FLUORESCENT SIGN
450	URBAN-100 MPH TO 105 MPH	1,500	1,550	1,550	FLUORESCENT SIGN
475	URBAN-105 MPH TO 110 MPH	1,600	1,650	1,650	FLUORESCENT SIGN
500	URBAN-110 MPH TO 115 MPH	1,700	1,750	1,750	FLUORESCENT SIGN
525	URBAN-115 MPH TO 120 MPH	1,800	1,850	1,850	FLUORESCENT SIGN
550	URBAN-120 MPH TO 125 MPH	1,900	1,950	1,950	FLUORESCENT SIGN
575	URBAN-125 MPH TO 130 MPH	2,000	2,050	2,050	FLUORESCENT SIGN
600	URBAN-130 MPH TO 135 MPH	2,100	2,150	2,150	FLUORESCENT SIGN
625	URBAN-135 MPH TO 140 MPH	2,200	2,250	2,250	FLUORESCENT SIGN
650	URBAN-140 MPH TO 145 MPH	2,300	2,350	2,350	FLUORESCENT SIGN
675	URBAN-145 MPH TO 150 MPH	2,400	2,450	2,450	FLUORESCENT SIGN
700	URBAN-150 MPH TO 155 MPH	2,500	2,550	2,550	FLUORESCENT SIGN
725	URBAN-155 MPH TO 160 MPH	2,600	2,650	2,650	FLUORESCENT SIGN
750	URBAN-160 MPH TO 165 MPH	2,700	2,750	2,750	FLUORESCENT SIGN
775	URBAN-165 MPH TO 170 MPH	2,800	2,850	2,850	FLUORESCENT SIGN
800	URBAN-170 MPH TO 175 MPH	2,900	2,950	2,950	FLUORESCENT SIGN
825	URBAN-175 MPH TO 180 MPH	3,000	3,050	3,050	FLUORESCENT SIGN
850	URBAN-180 MPH TO 185 MPH	3,100	3,150	3,150	FLUORESCENT SIGN
875	URBAN-185 MPH TO 190 MPH	3,200	3,250	3,250	FLUORESCENT SIGN
900	URBAN-190 MPH TO 195 MPH	3,300	3,350	3,350	FLUORESCENT SIGN
925	URBAN-195 MPH TO 200 MPH	3,400	3,450	3,450	FLUORESCENT SIGN
950	URBAN-200 MPH TO 205 MPH	3,500	3,550	3,550	FLUORESCENT SIGN
975	URBAN-205 MPH TO 210 MPH	3,600	3,650	3,650	FLUORESCENT SIGN
1,000	URBAN-210 MPH TO 215 MPH	3,700	3,750	3,750	FLUORESCENT SIGN
1,025	URBAN-215 MPH TO 220 MPH	3,800	3,850	3,850	FLUORESCENT SIGN
1,050	URBAN-220 MPH TO 225 MPH	3,900	3,950	3,950	FLUORESCENT SIGN
1,075	URBAN-225 MPH TO 230 MPH	4,000	4,050	4,050	FLUORESCENT SIGN
1,100	URBAN-230 MPH TO 235 MPH	4,100	4,150	4,150	FLUORESCENT SIGN
1,125	URBAN-235 MPH TO 240 MPH	4,200	4,250	4,250	FLUORESCENT SIGN
1,150	URBAN-240 MPH TO 245 MPH	4,300	4,350	4,350	FLUORESCENT SIGN
1,175	URBAN-245 MPH TO 250 MPH	4,400	4,450	4,450	FLUORESCENT SIGN
1,200	URBAN-250 MPH TO 255 MPH	4,500	4,550	4,550	FLUORESCENT SIGN
1,225	URBAN-255 MPH TO 260 MPH	4,600	4,650	4,650	FLUORESCENT SIGN
1,250	URBAN-260 MPH TO 265 MPH	4,700	4,750	4,750	FLUORESCENT SIGN
1,275	URBAN-265 MPH TO 270 MPH	4,800	4,850	4,850	FLUORESCENT SIGN
1,300	URBAN-270 MPH TO 275 MPH	4,900	4,950	4,950	FLUORESCENT SIGN
1,325	URBAN-275 MPH TO 280 MPH	5,000	5,050	5,050	FLUORESCENT SIGN
1,350	URBAN-280 MPH TO 285 MPH	5,100	5,150	5,150	FLUORESCENT SIGN
1,375	URBAN-285 MPH TO 290 MPH	5,200	5,250	5,250	FLUORESCENT SIGN
1,400	URBAN-290 MPH TO 295 MPH	5,300	5,350	5,350	FLUORESCENT SIGN
1,425	URBAN-295 MPH TO 300 MPH	5,400	5,450	5,450	FLUORESCENT SIGN
1,450	URBAN-300 MPH TO 305 MPH	5,500	5,550	5,550	FLUORESCENT SIGN
1,475	URBAN-305 MPH TO 310 MPH	5,600	5,650	5,650	FLUORESCENT SIGN
1,500	URBAN-310 MPH TO 315 MPH	5,700	5,750	5,750	FLUORESCENT SIGN
1,525	URBAN-315 MPH TO 320 MPH	5,800	5,850	5,850	FLUORESCENT SIGN
1,550	URBAN-320 MPH TO 325 MPH	5,900	5,950	5,950	FLUORESCENT SIGN
1,575	URBAN-325 MPH TO 330 MPH	6,000	6,050	6,050	FLUORESCENT SIGN
1,600	URBAN-330 MPH TO 335 MPH	6,100	6,150	6,150	FLUORESCENT SIGN
1,625	URBAN-335 MPH TO 340 MPH	6,200	6,250	6,250	FLUORESCENT SIGN
1,650	URBAN-340 MPH TO 345 MPH	6,300	6,350	6,350	FLUORESCENT SIGN
1,675	URBAN-345 MPH TO 350 MPH	6,400	6,450	6,450	FLUORESCENT SIGN
1,700	URBAN-350 MPH TO 355 MPH	6,500	6,550	6,550	FLUORESCENT SIGN
1,725	URBAN-355 MPH TO 360 MPH	6,600	6,650	6,650	FLUORESCENT SIGN
1,750	URBAN-360 MPH TO 365 MPH	6,700	6,750	6,750	FLUORESCENT SIGN
1,775	URBAN-365 MPH TO 370 MPH	6,800	6,850	6,850	FLUORESCENT SIGN
1,800	URBAN-370 MPH TO 375 MPH	6,900	6,950	6,950	FLUORESCENT SIGN
1,825	URBAN-375 MPH TO 380 MPH	7,000	7,050	7,050	FLUORESCENT SIGN
1,850	URBAN-380 MPH TO 385 MPH	7,100	7,150	7,150	FLUORESCENT SIGN
1,875	URBAN-385 MPH TO 390 MPH	7,200	7,250	7,250	FLUORESCENT SIGN
1,900	URBAN-390 MPH TO 395 MPH	7,300	7,350	7,350	FLUORESCENT SIGN
1,925	URBAN-395 MPH TO 400 MPH	7,400	7,450	7,450	FLUORESCENT SIGN
1,950	URBAN-400 MPH TO 405 MPH	7,500	7,550	7,550	FLUORESCENT SIGN
1,975	URBAN-405 MPH TO 410 MPH	7,600	7,650	7,650	FLUORESCENT SIGN
2,000	URBAN-410 MPH TO 415 MPH	7,700	7,750	7,750	FLUORESCENT SIGN
2,025	URBAN-415 MPH TO 420 MPH	7,800	7,850	7,850	FLUORESCENT SIGN
2,050	URBAN-420 MPH TO 425 MPH	7,900	7,950	7,950	FLUORESCENT SIGN
2,075	URBAN-425 MPH TO 430 MPH	8,000	8,050	8,050	FLUORESCENT SIGN
2,100	URBAN-430 MPH TO 435 MPH	8,100	8,150	8,150	FLUORESCENT SIGN
2,125	URBAN-435 MPH TO 440 MPH	8,200	8,250	8,250	FLUORESCENT SIGN
2,150	URBAN-440 MPH TO 445 MPH	8,300	8,350	8,350	FLUORESCENT SIGN
2,175	URBAN-445 MPH TO 450 MPH	8,400	8,450	8,450	FLUORESCENT SIGN
2,200	URBAN-450 MPH TO 455 MPH	8,500	8,550	8,550	FLUORESCENT SIGN
2,225	URBAN-455 MPH TO 460 MPH	8,600	8,650	8,650	FLUORESCENT SIGN
2,250	URBAN-460 MPH TO 465 MPH	8,700	8,750	8,750	FLUORESCENT SIGN
2,275	URBAN-465 MPH TO 470 MPH	8,800	8,850	8,850	FLUORESCENT SIGN
2,300	URBAN-470 MPH TO 475 MPH	8,900	8,950	8,950	FLUORESCENT SIGN
2,325	URBAN-475 MPH TO 480 MPH	9,000	9,050	9,050	FLUORESCENT SIGN
2,350	URBAN-480 MPH TO 485 MPH	9,100	9,150	9,150	FLUORESCENT SIGN
2,375	URBAN-485 MPH TO 490 MPH	9,200	9,250	9,250	FLUORESCENT SIGN
2,400	URBAN-490 MPH TO 495 MPH	9,300	9,350	9,350	FLUORESCENT SIGN
2,425	URBAN-495 MPH TO 500 MPH	9,400	9,450	9,450	FLUORESCENT SIGN
2,450	URBAN-500 MPH TO 505 MPH	9,500	9,550	9,550	FLUORESCENT SIGN
2,475	URBAN-505 MPH TO 510 MPH	9,600	9,650	9,650	FLUORESCENT SIGN
2,500	URBAN-510 MPH TO 515 MPH	9,700	9,750	9,750	FLUORESCENT SIGN
2,525	URBAN-515 MPH TO 520 MPH	9,800	9,850	9,850	FLUORESCENT SIGN
2,550	URBAN-520 MPH TO 525 MPH	9,900	9,950	9,950	FLUORESCENT SIGN
2,575	URBAN-525 MPH TO 530 MPH	10,000	10,050	10,050	FLUORESCENT SIGN
2,600	URBAN-530 MPH TO 535 MPH	10,100	10,150	10,150	FLUORESCENT SIGN
2,625	URBAN-535 MPH TO 540 MPH	10,200	10,250	10,250	FLUORESCENT SIGN
2,650	URBAN-540 MPH TO 545 MPH	10,300	10,350	10,350	FLUORESCENT SIGN
2,675	URBAN-545 MPH TO 550 MPH	10,400	10,450	10,450	FLUORESCENT SIGN
2,700	URBAN-550 MPH TO 555 MPH	10,500	10,550	10,550	FLUORESCENT SIGN
2,725	URBAN-555 MPH TO 560 MPH	10,600	10,650	10,650	FLUORESCENT SIGN
2,750	URBAN-560 MPH TO 565 MPH	10,700	10,750	10,750	FLUORESCENT SIGN
2,775	URBAN-565 MPH TO 570 MPH	10,800	10,850	10,850	FLUORESCENT SIGN
2,800	URBAN-570 MPH TO 575 MPH	10,900	10,950	10,950	FLUORESCENT SIGN
2,825	URBAN-575 MPH TO 580 MPH	11,000	11,050	11,050	FLUORESCENT SIGN
2,850	URBAN-580 MPH TO 585 MPH	11,100	11,150	11,150	FLUORESCENT SIGN
2,875	URBAN-585 MPH TO 590 MPH	11,200	11,250	11,250	FLUORESCENT SIGN
2,900	URBAN-590 MPH TO 595 MPH	11,300	11,350	11,350	FLUORESCENT SIGN
2,925	URBAN-595 MPH TO 600 MPH	11,400	11,450	11,450	FLUORESCENT SIGN
2,950	URBAN-600 MPH TO 605 MPH	11,500	11,550	11,550	FLUORESCENT SIGN
2,975	URBAN-605 MPH TO 610 MPH	11,600	11,650	11,650	FLUORESCENT SIGN
3,000	URBAN-610 MPH TO 615 MPH	11,700	11,750	11,750	FLUORESCENT SIGN
3,025	URBAN-615 MPH TO 620 MPH	11,800	11,850	11,850	FLUORESCENT SIGN
3,050	URBAN-620 MPH TO 625 MPH	11,900	11,950	11,950	FLUORESCENT SIGN
3,075	URBAN-625 MPH TO 630 MPH	12,000	12,050	12,050	FLUORESCENT SIGN
3,100	URBAN-630 MPH TO 635 MPH	12,100	12,150	12,150	FLUORESCENT SIGN
3,125	URBAN-635 MPH TO 640 MPH	12,200	12,250	12,250	FLUORESCENT SIGN
3,150	URBAN-640 MPH TO 645 MPH	12,300	12,350	12,350	FLUORESCENT SIGN
3,175	URBAN-645 MPH TO 650 MPH	12,400	12,450	12,450	FLUORESCENT SIGN
3,200	URBAN-650 MPH TO 655 MPH	12,500	12,550	12,550	FLUORESCENT SIGN
3,225	URBAN-655 MPH TO 660 MPH	12,600	12,650	12,650	FLUORESCENT SIGN
3,250	URBAN-660 MPH TO 665 MPH	12,700	12,750	12,750	FLUORESCENT SIGN
3,275	URBAN-665 MPH TO 670 MPH	12,800	12,850	12,850	FLUORESCENT SIGN
3,300	URBAN-670 MPH TO 675 MPH	12,900	12,950	12,950	FLUORESCENT SIGN
3,325	URBAN-675 MPH TO 680 MPH	13,000	13,050	13,050	FLUORESCENT SIGN
3,350	URBAN-680 MPH TO 685 MPH	13,100	13,150	13,150	FLUORESCENT SIGN
3,375	URBAN-685 MPH TO 690 MPH	13,200	13,250	13,250	FLUORESCENT SIGN
3,400	URBAN-690 MPH TO 695 MPH	13,300	13,350	13,350	FLUORESCENT SIGN
3,425	URBAN-695 MPH TO 700 MPH	13,400	13,450	13,450	FLUORESCENT SIGN
3,450	URBAN-700 MPH TO 705 MPH	13,500	13,550	13,550	FLUORESCENT SIGN
3,475	URBAN-705 MPH TO 710 MPH	13,600	13,650	13,650	FLUORESCENT SIGN
3,500	URBAN-710 MPH TO 715 MPH	13,700	13,750	13,750	FLUORESCENT SIGN
3,525	URBAN-715 MPH TO 720 MPH	13,800	13,850	13,850	FLUORESCENT SIGN
3,550	URBAN-720 MPH TO 725 MPH	13,900	13,950	13,950	FLUORESCENT SIGN
3,575	URBAN-725 MPH TO 730 MPH	14,000	14,050	14,050	FLUORESCENT SIGN
3,600	URBAN-730 MPH TO 735 MPH	14,100	14,150	14,150	FLUORESCENT SIGN
3,625	URBAN-735 MPH TO 740 MPH	14,200	14,250	14,250	FLUORESCENT SIGN
3,650	URBAN-740 MPH TO 745 MPH	14,300	14,350	14,350	FLUORESCENT SIGN
3,675	URBAN-745 MPH TO 750 MPH	14,400	14,450	14,450	FLUORESCENT SIGN
3,700	URBAN-750 MPH TO 755 MPH	14,500	14,550	14,550	FLUORESCENT SIGN
3,725	URBAN-755 MPH TO 760 MPH	14,600	14,650	14,650	FLUORESCENT SIGN
3,750	URBAN-760 MPH TO 765 MPH	14,700	14,750	14,750	FLUORESCENT SIGN
3,775	URBAN-765 MPH TO 770 MPH	14,800	14,850	14,850	FLUORESCENT SIGN
3,800	URBAN-770 MPH TO 775 MPH	14,900	14,950	14,950	FLUORESCENT SIGN
3,825	URBAN-775 MPH TO 780 MPH	15,000	15,050	15,050	FLUORESCENT SIGN
3,850	URBAN-780 MPH TO 785 MPH	15,100	15,150	15,150	FLUORESCENT SIGN
3,875	URBAN-785 MPH TO 790 MPH	15,200	15,250	15,250	FLUORESCENT SIGN
3,900	URBAN-790 MPH TO 795 MPH	15,300	15,350	15,350	FLUORESCENT SIGN
3,925	URBAN-795 MPH TO 800 MPH	15,400	15,450	15,450	FLUORESCENT SIGN
3,950	URBAN-800 MPH TO 805 MPH	15,500	15,550	15,550	FLUORESCENT SIGN
3,975	URBAN-805 MPH TO 810 MPH	15,600	15,650	15,650	FLUORESCENT SIGN
4,000	URBAN-810 MPH TO 815 MPH	15,700	15,750	15,750	FLUORESCENT SIGN
4,025	URBAN-815 MPH TO 820 MPH	15,800	15,850	15,850	FLUORESCENT SIGN
4,050	URBAN-820 MPH TO 825 MPH	15,900	15,950	15,950	FLUORESCENT SIGN
4,075	URBAN-825 MPH TO 830 MPH	16,000	16,050	16,050	FLUORESCENT SIGN
4,100	URBAN-830 MPH TO 835 MPH	16,100	16,150	16,150	FLUORESCENT SIGN
4,125	URBAN-835 MPH TO 840 MPH	16,200	16,250	16,250	FLUORESCENT SIGN
4,150	URBAN-840 MPH TO 845 MPH	16,3			



5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.

6. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.

7. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.

8. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.

9. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

10.

- GENERAL NOTES:**
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
 - CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
 - EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS, FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.

TABLE 1		TABLE 2				LEGEND	
MINIMUM TAPER LENGTH (FEET)	MINIMUM TAPER LENGTH (FEET)	ROAD TYPE	A	B	C	ARROW PANEL	FLAGGER
URBAN-25 MPH OR LESS	100	100	100	100	100	ARROW BOARD	FLAG TREE
URBAN-MORE THAN 25 MPH TO 40 MPH	250	250	250	250	250	(SHOWN FACING DOWN)	PORTABLE SIGN
URBAN-MORE THAN 40 MPH	350	350	350	350	350	DIRECTION OF TRAVEL	TYPE 2 OR 3
RURAL	500	500	500	500	500	TRAFFIC CONE / DEMARATOR	BARRICADE
EXPRESSWAY / FREEWAY	1,000	1,000	1,000	1,000	1,000	DIRECTION OF TEMPORARY TRAFFIC DETOUR	
DETOUR ROUTES							

811
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DESIGNED: []
CHECKED: []
APPROVED: []

DATE: 08/29/2018
SHEET: 12 OF 42

EC-19-1609 - TRAFFIC CONTROL PLAN
SECTION 2
1609-01
STOCKTON, CALIFORNIA

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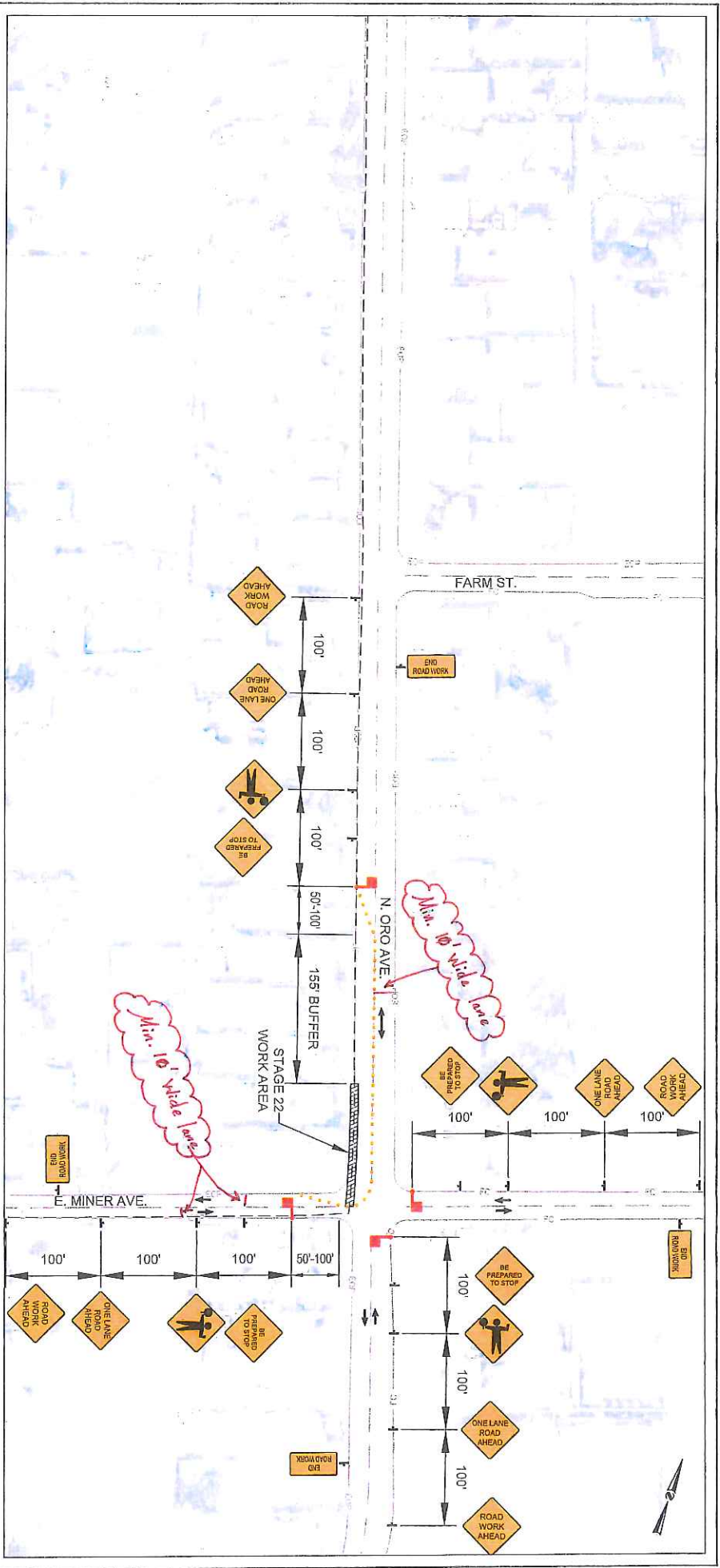
TABLE 1		TABLE 2	
MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	ROAD TYPE	
MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	A	B
MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	C	D
125	63	42	50
150	90	60	50
245	123	92	50
40	220	180	50
540	270	180	50
50	600	300	200
55	660	330	220
50	600	300	200
55	660	330	220

TABLE 1		TABLE 2	
MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	ROAD TYPE	
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MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	C	D
125	63	42	50
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40	220	180	50
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55	660	330	220

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MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	C	D
125	63	42	50
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40	220	180	50
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55	660	330	220
50	600	300	200
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55	660	330	220
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40	220	180	50
540	270	180	50
50	600	300	200
55	660	330	220
50	600	300	200
55	660	330	220



GENERAL NOTES:

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2. CALIFORNIA STANDARD PLANS AND SPECIFICATIONS, SHARPSPOLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRAVEL SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDED AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
6. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
7. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
8. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
9. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.
10. THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.



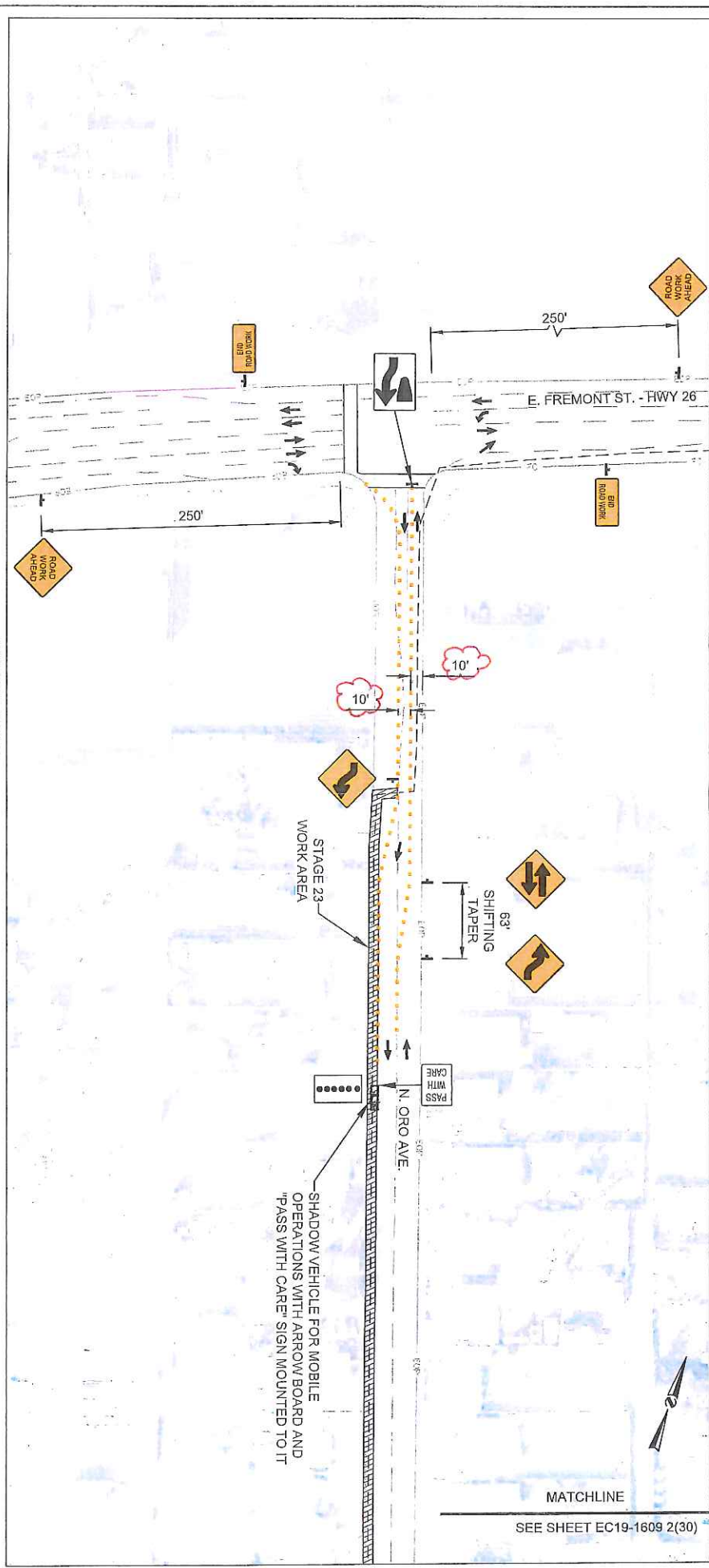
Meers Group, Inc.
1500 N. GARDEN AVE., SUITE 200
STOCKTON, CA 95210
TEL: (209) 953-3433
FAX: (209) 953-3433

EC-19-1609 - TRAFFIC CONTROL PLAN
SECTION 2
1609-01
STOCKTON, CALIFORNIA

Scale: 1" = 100' DATE: 06/29/2018 SHEET: 42 OF 42

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TABLE 1	TABLE 2
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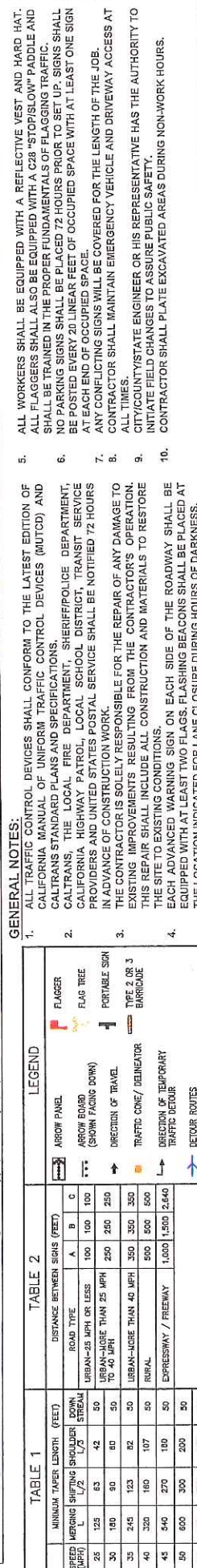


TABLE 1				TABLE 2				LEGEND	
MINIMUM TAPER LENGTH (FEET)	MINIMUM SHIFTING DISTANCE (FEET)	MINIMUM SHIFTING DISTANCE (FEET)	MINIMUM SHIFTING DISTANCE (FEET)	DISTANCE BETWEEN SIGNS (FEET)					
DOWN STREAM	DOWN STREAM	DOWN STREAM	DOWN STREAM	A	B	C			
25	63	42	50	100	100	100	ARROW PANEL	FLAGGER	
35	125	84	80	100	100	100	ROAD TYPE	FLAG TREE	
35	160	107	107	URBAN—20 MPH OR LESS	220	250	URBAN—20 MPH OR LESS	FLASHER	
35	214	123	82	URBAN—MORE THAN 25 MPH	220	250	URBAN—MORE THAN 25 MPH	PORTABLE SIGN	
40	320	160	107	URBAN—MORE THAN 40 MPH	350	350	URBAN—MORE THAN 40 MPH	TYPE 2 OR 3 BARRIAGE	
45	510	270	100	RURAL	500	500	RURAL	TRAFFIC CONE/DEVIATOR	
50	600	300	200	EXPRESSWAY / FREEWAY	1,000	1,500	EXPRESSWAY / FREEWAY	DIRECTION OF TEMPORARY TRAFFIC DEVIATION	
50	600	300	200					DETOUR ROUTES	

TABLE 1					TABLE 2					LEGEND	
SPEED (MPH)	MINIMUM PAPER LENGTH (FEET)	UPWARD SHIFTING CHOLLER		DOWN STREAM	ROAD TYPE	DISTANCE BETWEEN SIGNS (FEET)			ARROW PANEL	FLAGGER	
		L	L/2			A	B	C			
25	125	63	42	50	URBAN—25 MPH OR LESS	100	100	100			
30	160	80	60	50	URBAN—MORE THAN 25 MPH TO 40 MPH	250	250	250			
35	215	123	82	50	URBAN—MORE THAN 40 MPH	350	350	350			
40	320	160	107	50	RURAL	500	500	500			
45	540	270	100	50	EXPRESSWAY / FREEWAY	1,000	1,500	2,640			
50	600	300	200	50							

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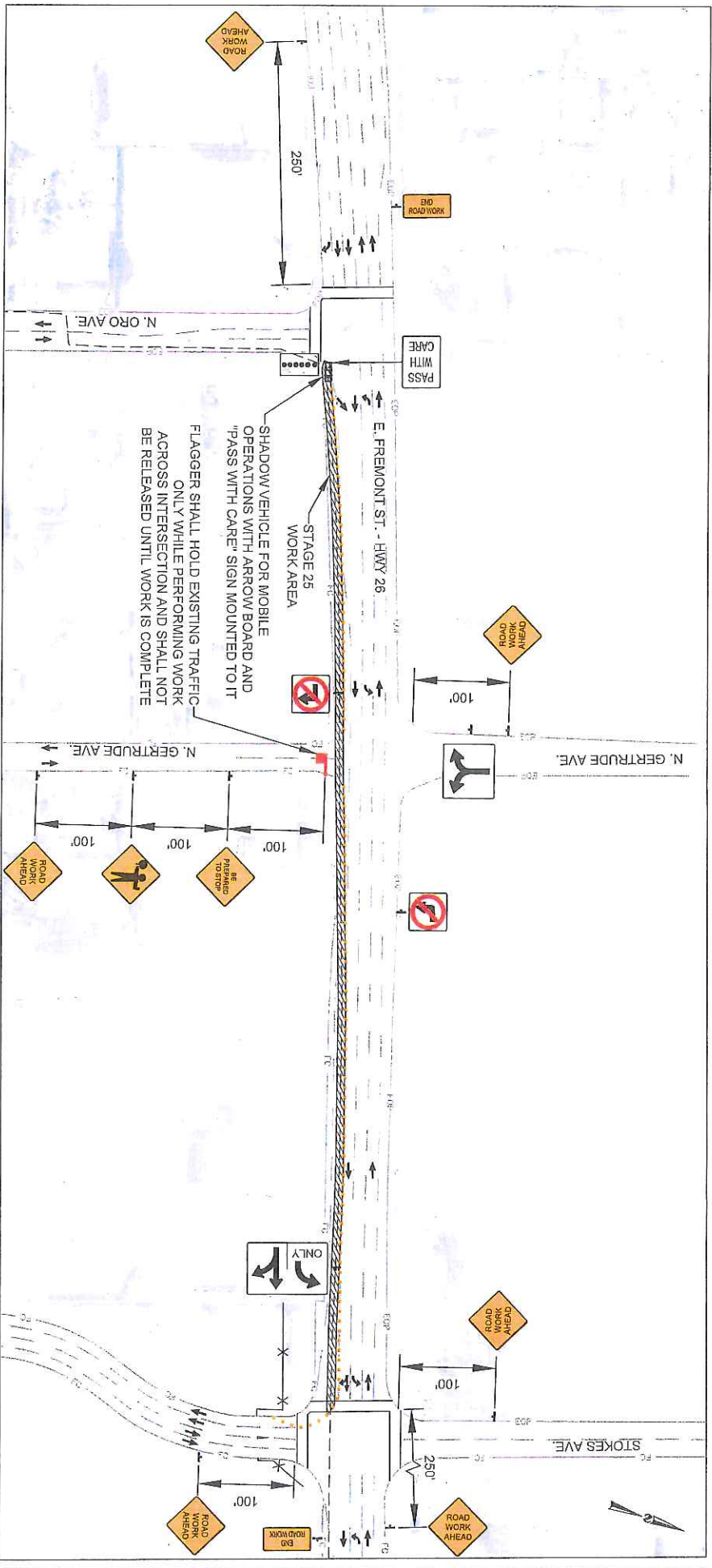


TABLE 1
MINIMUM TRAFFIC LENGTH (FEET)

TABLE 2
DISTANCE BETWEEN SIGNS (FEET)

LEGEND

REVISIONS	DATE	BY	DESCRIPTION
1	08/29/2018	EC19-1609	SECTION 2
2	08/29/2018	EC19-1609	SECTION 2
3	08/29/2018	EC19-1609	SECTION 2
4	08/29/2018	EC19-1609	SECTION 2
5	08/29/2018	EC19-1609	SECTION 2
6	08/29/2018	EC19-1609	SECTION 2
7	08/29/2018	EC19-1609	SECTION 2
8	08/29/2018	EC19-1609	SECTION 2
9	08/29/2018	EC19-1609	SECTION 2
10	08/29/2018	EC19-1609	SECTION 2

REVISIONS	DATE	BY	DESCRIPTION
1	08/29/2018	EC19-1609	SECTION 2
2	08/29/2018	EC19-1609	SECTION 2
3	08/29/2018	EC19-1609	SECTION 2
4	08/29/2018	EC19-1609	SECTION 2
5	08/29/2018	EC19-1609	SECTION 2
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9	08/29/2018	EC19-1609	SECTION 2
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7	08/29/2018	EC19-1609	SECTION 2
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9	08/29/2018	EC19-1609	SECTION 2
10	08/29/2018	EC19-1609	SECTION 2

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9	08/29/2018	EC19-1609	SECTION 2
10	08/29/2018	EC19-1609	SECTION 2

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6	08/29/2018	EC19-1609	SECTION 2
7	08/29/2018	EC19-1609	SECTION 2
8	08/29/2018	EC19-1609	SECTION 2
9	08/29/2018	EC19-1609	SECTION 2
10	08/29/2018	EC19-1609	SECTION 2

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALIFORNIA STANDARD PLANS AND SPECIFICATIONS.

2. THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.

3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.

4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAS, FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.

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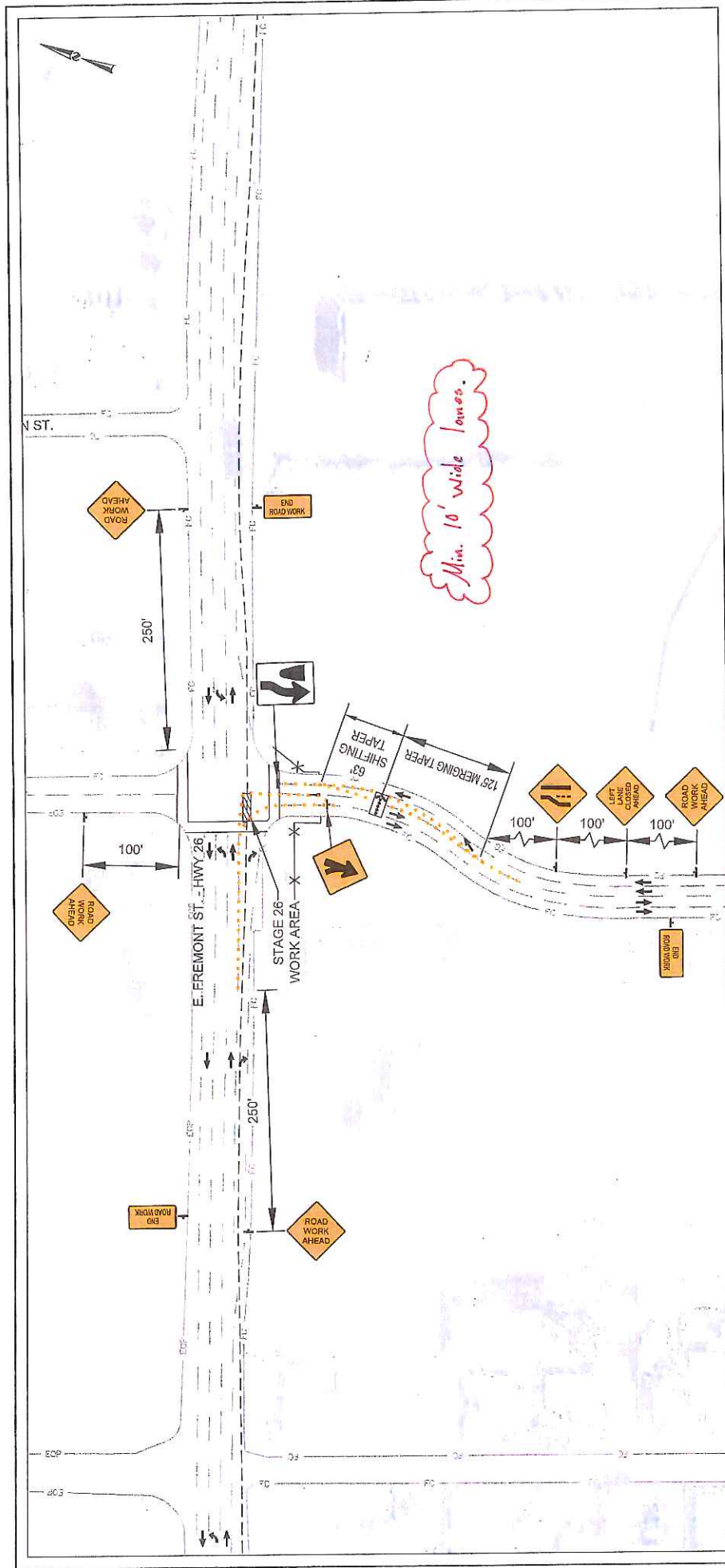
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7. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.

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10. THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.



GENERAL NOTES:

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ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/STAY" PAD AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.

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CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.

CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

TABLE 1

SPEED (MPH)	MINIMUM TAPER LENGTH (FEET)		DISTANCE BETWEEN SIGNS (FEET)			
	SHOULDER	DOWN LANE	A	B	C	D
25	125	65	100	100	100	100
30	150	80	125	125	125	125
35	245	125	150	150	150	150
40	320	160	175	175	175	175
45	540	270	180	180	180	180
50	800	300	200	200	200	200
55	860	330	220	220	220	220

TABLE 2

ROAD TYPE	DISTANCE BETWEEN SIGNS (FEET)			
	A	B	C	D
URBAN-25 MPH OR LESS	100	100	100	100
URBAN-MORE THAN 25 MPH TO 40 MPH	250	250	250	250
URBAN-MORE THAN 40 MPH TO 50 MPH	350	350	350	350
URBAN-MORE THAN 50 MPH TO 60 MPH	500	500	500	500
EXPRESSWAY / FREEWAY	1,000	1,000	1,000	2,000

LEGEND

SYMBOL	DESCRIPTION
ARROW PANEL	ARROW PANEL
FLAGGER	FLAGGER
FLAG TREE	FLAG TREE
PORTABLE SIGN	PORTABLE SIGN
TYPE 2 OR 3	TYPE 2 OR 3
TRAFFIC CONE / DEMARCATOR	TRAFFIC CONE / DEMARCATOR
DIRECTION OF TRAVEL	DIRECTION OF TRAVEL
DIRECTION OF TEMPORARY TRAFFIC DETOUR	DIRECTION OF TEMPORARY TRAFFIC DETOUR
DETOUR ROUTES	DETOUR ROUTES

REVISIONS

NUMBER	DESCRIPTION	BY	DATE
1			
2			
3			
4			

EC-19-1609 - TRAFFIC CONTROL PLAN

SECTION 2

1609-01

STOCKTON, CALIFORNIA

Mears Group, Inc.

4500 N. GARDEN AVE., SUITE 100, STOCKTON, CA 95210

PHONE: (209) 938-2299

FAX: (209) 938-2293

DATE: 07/28/2016

SCALE: 1" = 100'

JOB NUMBER: 1609-01

FILE NAME: EC-19-1609-01-01.dwg

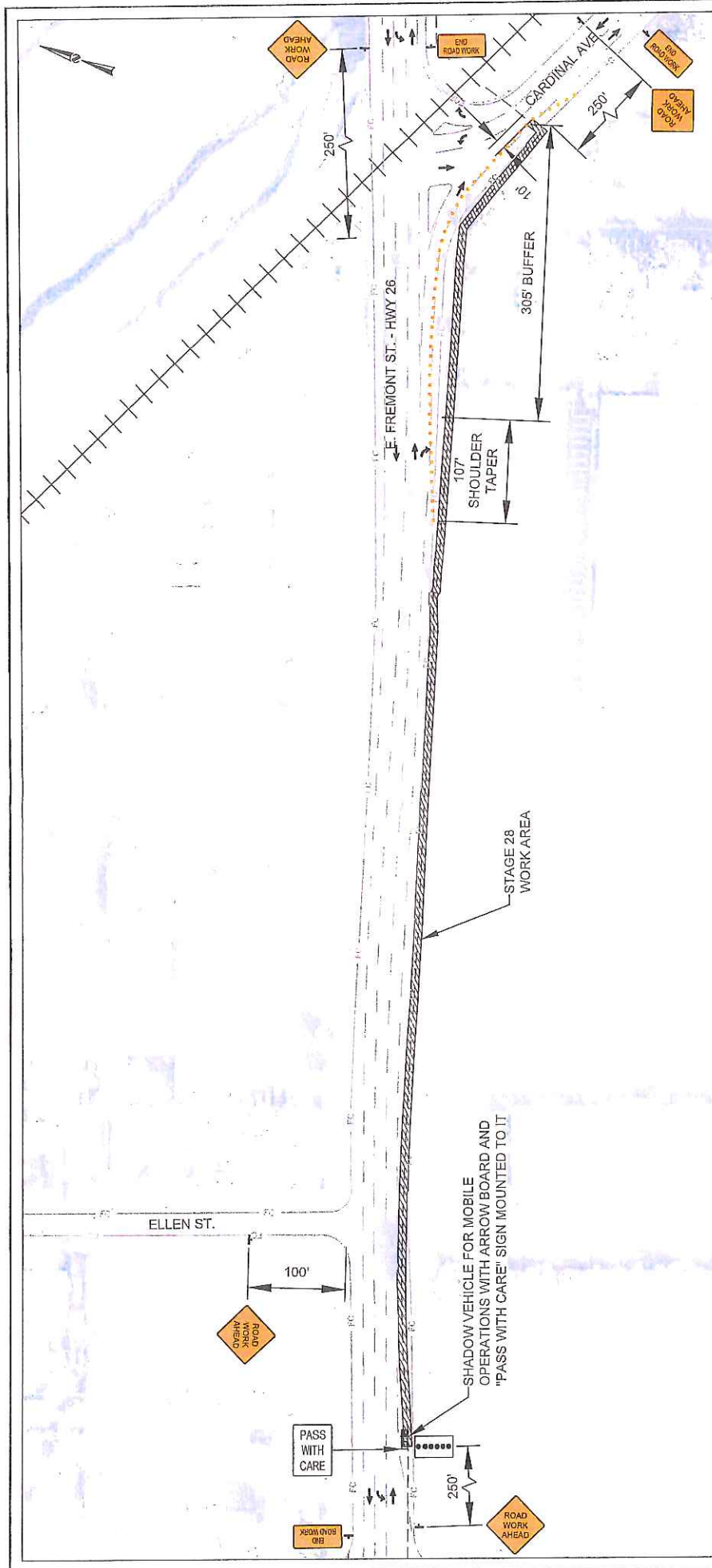
DATE: 07/28/2016

BY: [Signature]

DATE: 07/28/2016

APPROVED: [Signature]

DATE: 07/28/2016



GENERAL NOTES:

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TABLE 1		TABLE 2		LEGEND	
MINIMUM TAPER LENGTH (FEET)	SHOULDER L/2	MINIMUM TAPER LENGTH (FEET)	SHOULDER L/2	ARROW BOARD	FLAGGER
URBAN-25 MPH OR LESS	URBAN-MORE THAN 25 MPH TO 40 MPH	URBAN-25 MPH OR LESS	URBAN-MORE THAN 25 MPH TO 40 MPH	ARROW BOARD (SHOWN FACING DOWN)	FLAG TREE
25	125	63	42	50	100
30	180	90	60	75	150
35	245	123	82	100	200
40	320	160	107	125	250
45	540	270	180	150	300
50	600	300	200	175	350
55	660	330	220	200	400

REVISIONS	DATE	BY	DESCRIPTION
1	12/10/20	BR	APPROVED

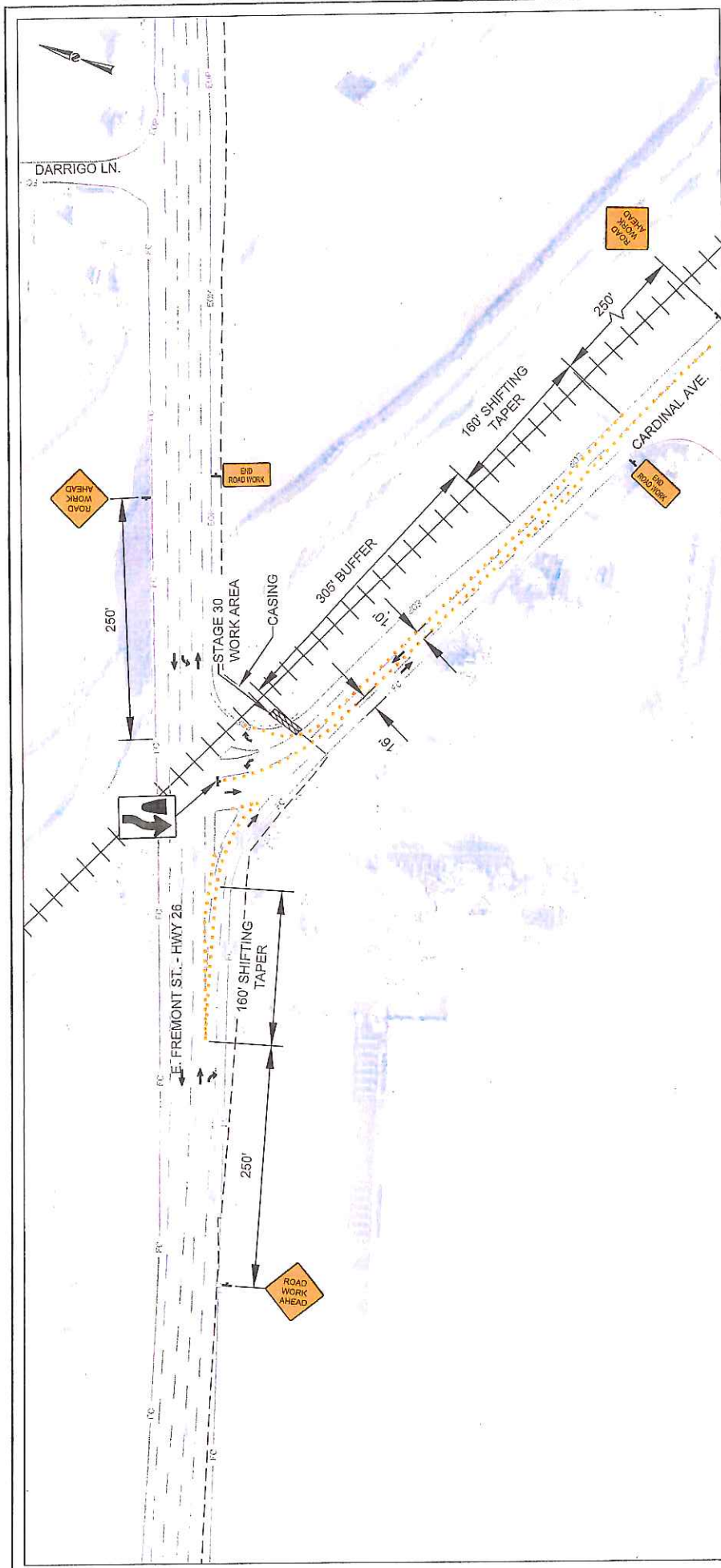
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EC19-1609 - TRAFFIC CONTROL PLAN
SECTION 2
1609-01
STOCKTON, CALIFORNIA

SCALE: 1" = 100' DATE: 06/20/2019
JOB NUMBER: 1609-01
FILE NAME: EC19-1609-SECTION 2 - TP
JOB NO.: 1609-01

DESIGNED: JLB
CHECKED: JLB
APPROVED: JLB

Mears Group, Inc.
4500 N. WILSON AVE., SUITE 100
STOCKTON, CA 95210
PHONE: (209) 432-5357
FAX: (209) 432-5357



- GENERAL NOTES:**
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TABLE 1		TABLE 2	
MINIMUM TAPER LENGTH (FEET)		DISTANCE BETWEEN SIGNS (FEET)	
MINIMUM TAPER LENGTH (FEET)	MINIMUM TAPER LENGTH (FEET)	ROAD TYPE	A B C
25	125	URBAN-25 MPH OR LESS	100 100 100
30	160	URBAN-MORE THAN 25 MPH TO 40 MPH	250 250 250
35	245	URBAN-MORE THAN 40 MPH	350 350 350
40	320	RURAL	500 500 500
45	540	EXPRESSWAY / FREEWAY	1,000 1,500 2,640
50	600		
55	660		

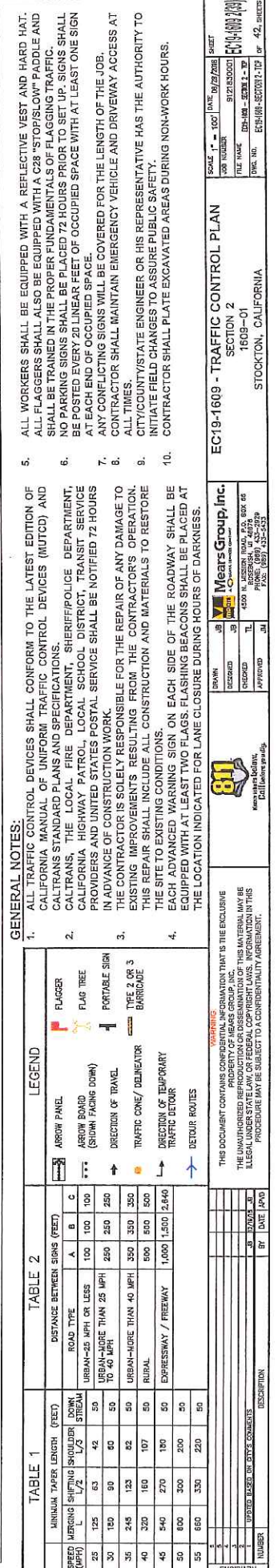
LEGEND	
FLAGGER	FLAG TREE
ARROW BOARD (SHOW FACING DOWN)	PORTABLE SIGN
DIRECTION OF TRAVEL	TRAFFIC CONE / DELINEATOR
TRAFFIC CONE / DELINEATOR	DIRECTION OF TEMPORARY TRAFFIC DETOUR
DIRECTION OF TEMPORARY TRAFFIC DETOUR	DETOUR ROUTES

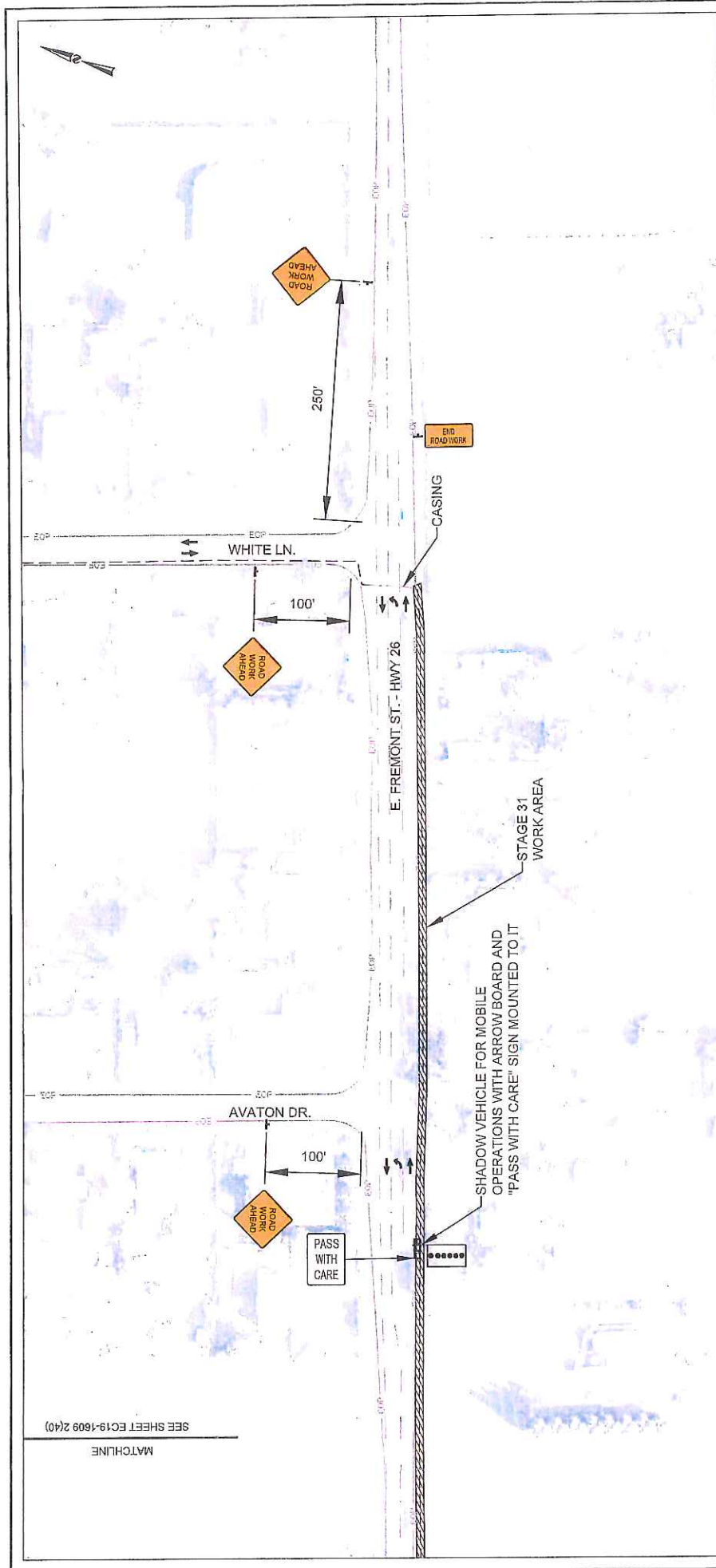
REVISIONS	DATE	BY	DATE

811
California Statewide
Call Before You Dig

Mears Group, Inc.
4500 N. AZULAVILLE RD., SUITE 400
FREMONT, CA 94538
PHONE: (510) 332-2525

DRAWN: JH
CHECKED: JH
APPROVED: JH

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GENERAL NOTES:

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TABLE 1		TABLE 2				LEGEND	
SPEED (MPH)	MINIMUM PAPER LENGTH (FEET)	MINIMUM SHIFTING PROPORTION DOWN	DISTANCE BETWEEN SIGNS (FEET)			ARROW PANEL	FLAGGER
			ROAD TYPE	A	B		
25	125	63	URBAN-25 MPH OR LESS	100	100	ARROW BOARD (SHOW FACING DOWN)	FLAG TREE
30	100	50	URBAN-MORE THAN 25 MPH	250	250	DIRECTION OF TRAVEL	PORTABLE SIGN
35	245	123	URBAN-MORE THAN 40 MPH	350	350	TRAFFIC CONE/DEVIATOR	TYPE 2 OR 3
40	320	160	RURAL	500	500	DIRECTION OF TEMPORARY TRAFFIC DETOUR	BARRICADE
45	340	270	EXPRESSWAY / FREEWAY	1,000	1,500	DETOUR ROUTES	
50	500	300		200	50		
55	660	330		220	50		

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REVISIONS	NUMBER	DATE	BY	DATE
1				
2				
3				
4				
5				



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 4000 N. JENSEN BLVD., SUITE 400
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EC19-1609 - TRAFFIC CONTROL PLAN
 SECTION 2
 1609-01
 STOCKTON, CALIFORNIA

SCALE: 1" = 100'
 JOB NUMBER: 1609-01
 FILE NAME: EC19-1609-01-01
 SHEET: 1 OF 42

SEE SHEET EC19-1609 2(40)

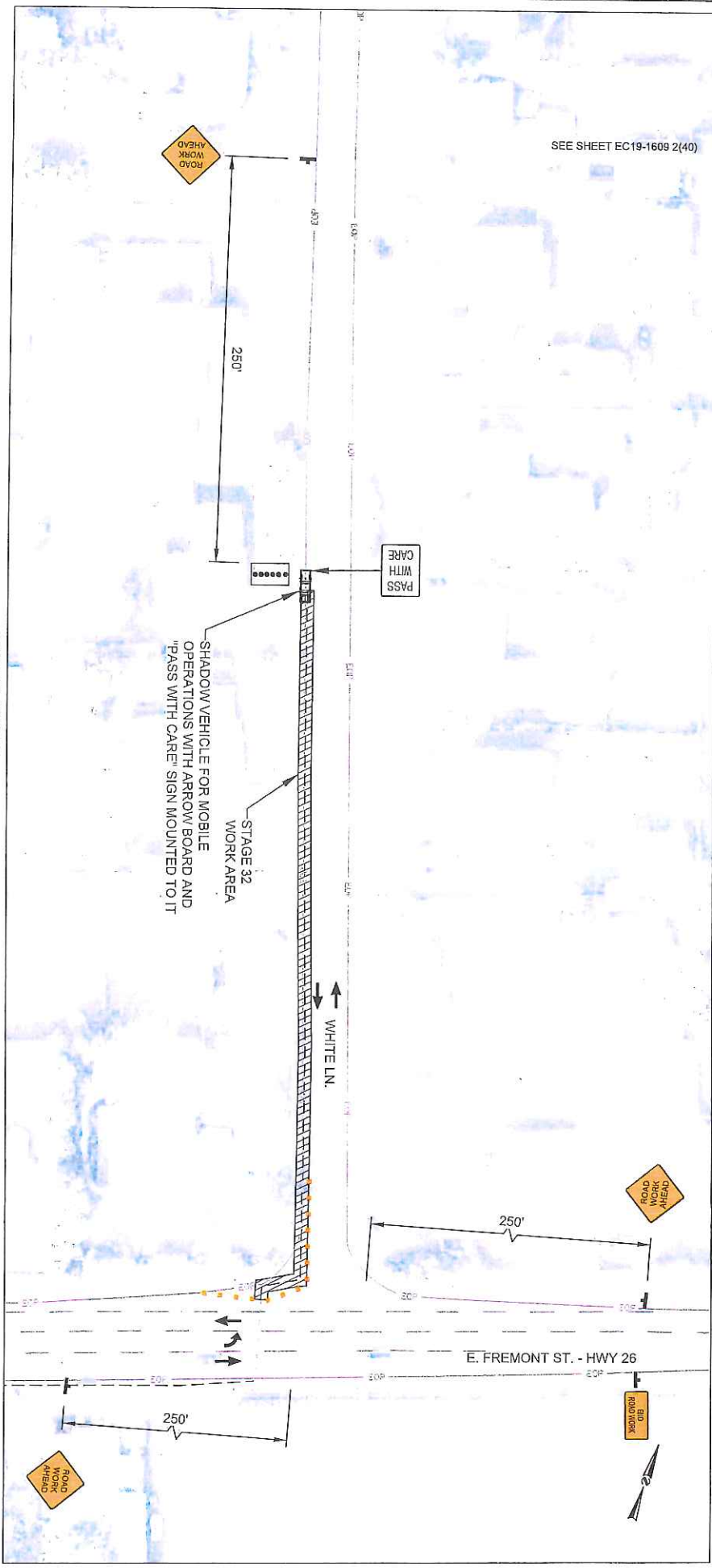


TABLE 1

TABLE 2

LEGEND

MINIMUM TRAFFIC LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	ARROW BOARD	FLASHER
URBAN-25 MPH OR LESS	100	100	100
URBAN-30 MPH OR LESS	150	150	150
URBAN-35 MPH OR LESS	200	200	200
URBAN-40 MPH OR LESS	250	250	250
URBAN-45 MPH OR LESS	300	300	300
URBAN-50 MPH OR LESS	350	350	350
URBAN-55 MPH OR LESS	400	400	400
URBAN-60 MPH OR LESS	450	450	450
URBAN-65 MPH OR LESS	500	500	500
URBAN-70 MPH OR LESS	550	550	550
URBAN-75 MPH OR LESS	600	600	600
URBAN-80 MPH OR LESS	650	650	650
URBAN-85 MPH OR LESS	700	700	700
URBAN-90 MPH OR LESS	750	750	750
URBAN-95 MPH OR LESS	800	800	800
URBAN-100 MPH OR LESS	850	850	850
URBAN-105 MPH OR LESS	900	900	900
URBAN-110 MPH OR LESS	950	950	950
URBAN-115 MPH OR LESS	1000	1000	1000
URBAN-120 MPH OR LESS	1050	1050	1050
URBAN-125 MPH OR LESS	1100	1100	1100
URBAN-130 MPH OR LESS	1150	1150	1150
URBAN-135 MPH OR LESS	1200	1200	1200
URBAN-140 MPH OR LESS	1250	1250	1250
URBAN-145 MPH OR LESS	1300	1300	1300
URBAN-150 MPH OR LESS	1350	1350	1350
URBAN-155 MPH OR LESS	1400	1400	1400
URBAN-160 MPH OR LESS	1450	1450	1450
URBAN-165 MPH OR LESS	1500	1500	1500
URBAN-170 MPH OR LESS	1550	1550	1550
URBAN-175 MPH OR LESS	1600	1600	1600
URBAN-180 MPH OR LESS	1650	1650	1650
URBAN-185 MPH OR LESS	1700	1700	1700
URBAN-190 MPH OR LESS	1750	1750	1750
URBAN-195 MPH OR LESS	1800	1800	1800
URBAN-200 MPH OR LESS	1850	1850	1850
URBAN-205 MPH OR LESS	1900	1900	1900
URBAN-210 MPH OR LESS	1950	1950	1950
URBAN-215 MPH OR LESS	2000	2000	2000
URBAN-220 MPH OR LESS	2050	2050	2050
URBAN-225 MPH OR LESS	2100	2100	2100
URBAN-230 MPH OR LESS	2150	2150	2150
URBAN-235 MPH OR LESS	2200	2200	2200
URBAN-240 MPH OR LESS	2250	2250	2250
URBAN-245 MPH OR LESS	2300	2300	2300
URBAN-250 MPH OR LESS	2350	2350	2350
URBAN-255 MPH OR LESS	2400	2400	2400
URBAN-260 MPH OR LESS	2450	2450	2450
URBAN-265 MPH OR LESS	2500	2500	2500
URBAN-270 MPH OR LESS	2550	2550	2550
URBAN-275 MPH OR LESS	2600	2600	2600
URBAN-280 MPH OR LESS	2650	2650	2650
URBAN-285 MPH OR LESS	2700	2700	2700
URBAN-290 MPH OR LESS	2750	2750	2750
URBAN-295 MPH OR LESS	2800	2800	2800
URBAN-300 MPH OR LESS	2850	2850	2850
URBAN-305 MPH OR LESS	2900	2900	2900
URBAN-310 MPH OR LESS	2950	2950	2950
URBAN-315 MPH OR LESS	3000	3000	3000
URBAN-320 MPH OR LESS	3050	3050	3050
URBAN-325 MPH OR LESS	3100	3100	3100
URBAN-330 MPH OR LESS	3150	3150	3150
URBAN-335 MPH OR LESS	3200	3200	3200
URBAN-340 MPH OR LESS	3250	3250	3250
URBAN-345 MPH OR LESS	3300	3300	3300
URBAN-350 MPH OR LESS	3350	3350	3350
URBAN-355 MPH OR LESS	3400	3400	3400
URBAN-360 MPH OR LESS	3450	3450	3450
URBAN-365 MPH OR LESS	3500	3500	3500
URBAN-370 MPH OR LESS	3550	3550	3550
URBAN-375 MPH OR LESS	3600	3600	3600
URBAN-380 MPH OR LESS	3650	3650	3650
URBAN-385 MPH OR LESS	3700	3700	3700
URBAN-390 MPH OR LESS	3750	3750	3750
URBAN-395 MPH OR LESS	3800	3800	3800
URBAN-400 MPH OR LESS	3850	3850	3850
URBAN-405 MPH OR LESS	3900	3900	3900
URBAN-410 MPH OR LESS	3950	3950	3950
URBAN-415 MPH OR LESS	4000	4000	4000
URBAN-420 MPH OR LESS	4050	4050	4050
URBAN-425 MPH OR LESS	4100	4100	4100
URBAN-430 MPH OR LESS	4150	4150	4150
URBAN-435 MPH OR LESS	4200	4200	4200
URBAN-440 MPH OR LESS	4250	4250	4250
URBAN-445 MPH OR LESS	4300	4300	4300
URBAN-450 MPH OR LESS	4350	4350	4350
URBAN-455 MPH OR LESS	4400	4400	4400
URBAN-460 MPH OR LESS	4450	4450	4450
URBAN-465 MPH OR LESS	4500	4500	4500
URBAN-470 MPH OR LESS	4550	4550	4550
URBAN-475 MPH OR LESS	4600	4600	4600
URBAN-480 MPH OR LESS	4650	4650	4650
URBAN-485 MPH OR LESS	4700	4700	4700
URBAN-490 MPH OR LESS	4750	4750	4750
URBAN-495 MPH OR LESS	4800	4800	4800
URBAN-500 MPH OR LESS	4850	4850	4850
URBAN-505 MPH OR LESS	4900	4900	4900
URBAN-510 MPH OR LESS	4950	4950	4950
URBAN-515 MPH OR LESS	5000	5000	5000
URBAN-520 MPH OR LESS	5050	5050	5050
URBAN-525 MPH OR LESS	5100	5100	5100
URBAN-530 MPH OR LESS	5150	5150	5150
URBAN-535 MPH OR LESS	5200	5200	5200
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URBAN-555 MPH OR LESS	5400	5400	5400
URBAN-560 MPH OR LESS	5450	5450	5450
URBAN-565 MPH OR LESS	5500	5500	5500
URBAN-570 MPH OR LESS	5550	5550	5550
URBAN-575 MPH OR LESS	5600	5600	5600
URBAN-580 MPH OR LESS	5650	5650	5650
URBAN-585 MPH OR LESS	5700	5700	5700
URBAN-590 MPH OR LESS	5750	5750	5750
URBAN-595 MPH OR LESS	5800	5800	5800
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URBAN-605 MPH OR LESS	5900	5900	5900
URBAN-610 MPH OR LESS	5950	5950	5950
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URBAN-630 MPH OR LESS	6150	6150	6150
URBAN-635 MPH OR LESS	6200	6200	6200
URBAN-640 MPH OR LESS	6250	6250	6250
URBAN-645 MPH OR LESS	6300	6300	6300
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URBAN-655 MPH OR LESS	6400	6400	6400
URBAN-660 MPH OR LESS	6450	6450	6450
URBAN-665 MPH OR LESS	6500	6500	6500
URBAN-670 MPH OR LESS	6550	6550	6550
URBAN-675 MPH OR LESS	6600	6600	6600
URBAN-680 MPH OR LESS	6650	6650	6650
URBAN-685 MPH OR LESS	6700	6700	6700
URBAN-690 MPH OR LESS	6750	6750	6750
URBAN-695 MPH OR LESS	6800	6800	6800
URBAN-700 MPH OR LESS	6850	6850	6850
URBAN-705 MPH OR LESS	6900	6900	6900
URBAN-710 MPH OR LESS	6950	6950	6950
URBAN-715 MPH OR LESS	7000	7000	7000
URBAN-720 MPH OR LESS	7050	7050	7050
URBAN-725 MPH OR LESS	7100	7100	7100
URBAN-730 MPH OR LESS	7150	7150	7150
URBAN-735 MPH OR LESS	7200	7200	7200
URBAN-740 MPH OR LESS	7250	7250	7250
URBAN-745 MPH OR LESS	7300	7300	7300
URBAN-750 MPH OR LESS	7350	7350	7350
URBAN-755 MPH OR LESS	7400	7400	7400
URBAN-760 MPH OR LESS	7450	7450	7450
URBAN-765 MPH OR LESS	7500	7500	7500
URBAN-770 MPH OR LESS	7550	7550	7550
URBAN-775 MPH OR LESS	7600	7600	7600
URBAN-780 MPH OR LESS	7650	7650	7650
URBAN-785 MPH OR LESS	7700	7700	7700
URBAN-790 MPH OR LESS	7750	7750	7750
URBAN-795 MPH OR LESS	7800	7800	7800
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URBAN-810 MPH OR LESS	7950	7950	7950
URBAN-815 MPH OR LESS	8000	8000	8000
URBAN-820 MPH OR LESS	8050	8050	8050
URBAN-825 MPH OR LESS	8100	8100	8100
URBAN-830 MPH OR LESS	8150	8150	8150
URBAN-835 MPH OR LESS	8200	8200	8200
URBAN-840 MPH OR LESS	8250	8250	8250
URBAN-845 MPH OR LESS	8300	8300	8300
URBAN-850 MPH OR LESS	8350	8350	8350
URBAN-855 MPH OR LESS	8400	8400	8400
URBAN-860 MPH OR LESS	8450	8450	8450
URBAN-865 MPH OR LESS	8500	8500	8500
URBAN-870 MPH OR LESS	8550	8550	8550
URBAN-875 MPH OR LESS	8600	8600	8600
URBAN-880 MPH OR LESS	8650	8650	8650
URBAN-885 MPH OR LESS	8700	8700	8700
URBAN-890 MPH OR LESS	8750	8750	8750
URBAN-895 MPH OR LESS	8800	8800	8800
URBAN-900 MPH OR LESS	8850	8850	8850
URBAN-905 MPH OR LESS	8900	8900	8900
URBAN-910 MPH OR LESS	8950	8950	8950
URBAN-915 MPH OR LESS	9000	9000	9000
URBAN-920 MPH OR LESS	9050	9050	9050
URBAN-925 MPH OR LESS	9100	9100	9100
URBAN-930 MPH OR LESS	9150	9150	9150
URBAN-935 MPH OR LESS	9200	9200	9200
URBAN-940 MPH OR LESS	9250	9250	9250
URBAN-945 MPH OR LESS	9300	9300	9300
URBAN-950 MPH OR LESS	9350	9350	9350
URBAN-955 MPH OR LESS	9400	9400	9400
URBAN-960 MPH OR LESS	9450	9450	9450
URBAN-965 MPH OR LESS	9500	9500	9500
URBAN-970 MPH OR LESS	9550	9550	9550
URBAN-975 MPH OR LESS	9600	9600	9600
URBAN-980 MPH OR LESS	9650	9650	9650
URBAN-985 MPH OR LESS	9700	9700	9700
URBAN-990 MPH OR LESS	9750	9750	9750
URBAN-995 MPH OR LESS	9800	9800	9800
URBAN-1000 MPH OR LESS	9850	9850	9850
URBAN-1005 MPH OR LESS	9900	9900	9900
URBAN-1010 MPH OR LESS	9950	9950	9950
URBAN-1015 MPH OR LESS	10000	10000	10000

GENERAL NOTES:

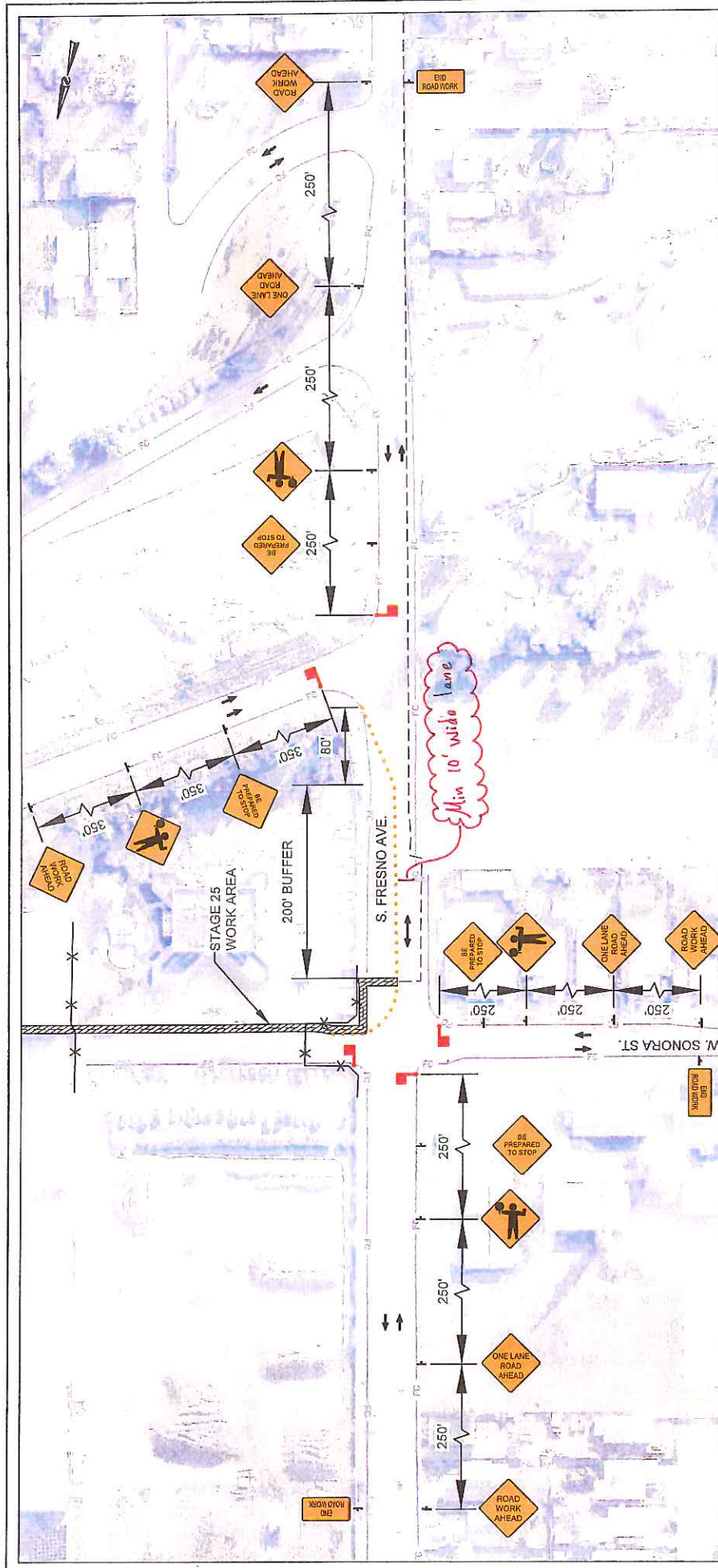
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHERS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT.
6. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/LOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
7. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
8. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
9. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
10. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
11. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.



811
Mearns Group, Inc.
4000 N. JENSEN RD., SUITE 100
FREMONT, CA 94538
TEL: (510) 771-1234
FAX: (510) 771-1235

EC19-1609 - TRAFFIC CONTROL PLAN
SECTION 2
1609-01
STOCKTON, CALIFORNIA

SCALE: 1" = 50'
DATE: 8/27/2013
SHEET: 42 OF 42
PROJECT: 1609-01
DRAWING: EC19-1609-01



5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
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8. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

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GENERAL NOTES:

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TABLE 2

SPEED (MPH)	MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)			
		A	B	C	D
25	125	63	42	50	100
30	150	80	60	50	100
35	175	100	80	50	100
40	200	125	100	50	100
45	225	150	125	50	100
50	250	175	150	50	100
55	275	200	175	50	100
60	300	225	200	50	100
65	325	250	225	50	100
70	350	275	250	50	100
75	375	300	275	50	100
80	400	325	300	50	100
85	425	350	325	50	100
90	450	375	350	50	100
95	475	400	375	50	100
100	500	425	400	50	100

EC19-1609 - TRAFFIC CONTROL PLAN
SECTION 3
DFM 1607-01, DFM 1608-01, GCUST5842
STOCKTON, CALIFORNIA

811
NOTIFY BEFORE
CALL BEFORE YOU DIG

Mears Group, Inc.
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

DATE: 9/1/2018
SCALE: 1" = 100'
SHEET: 3 OF 3

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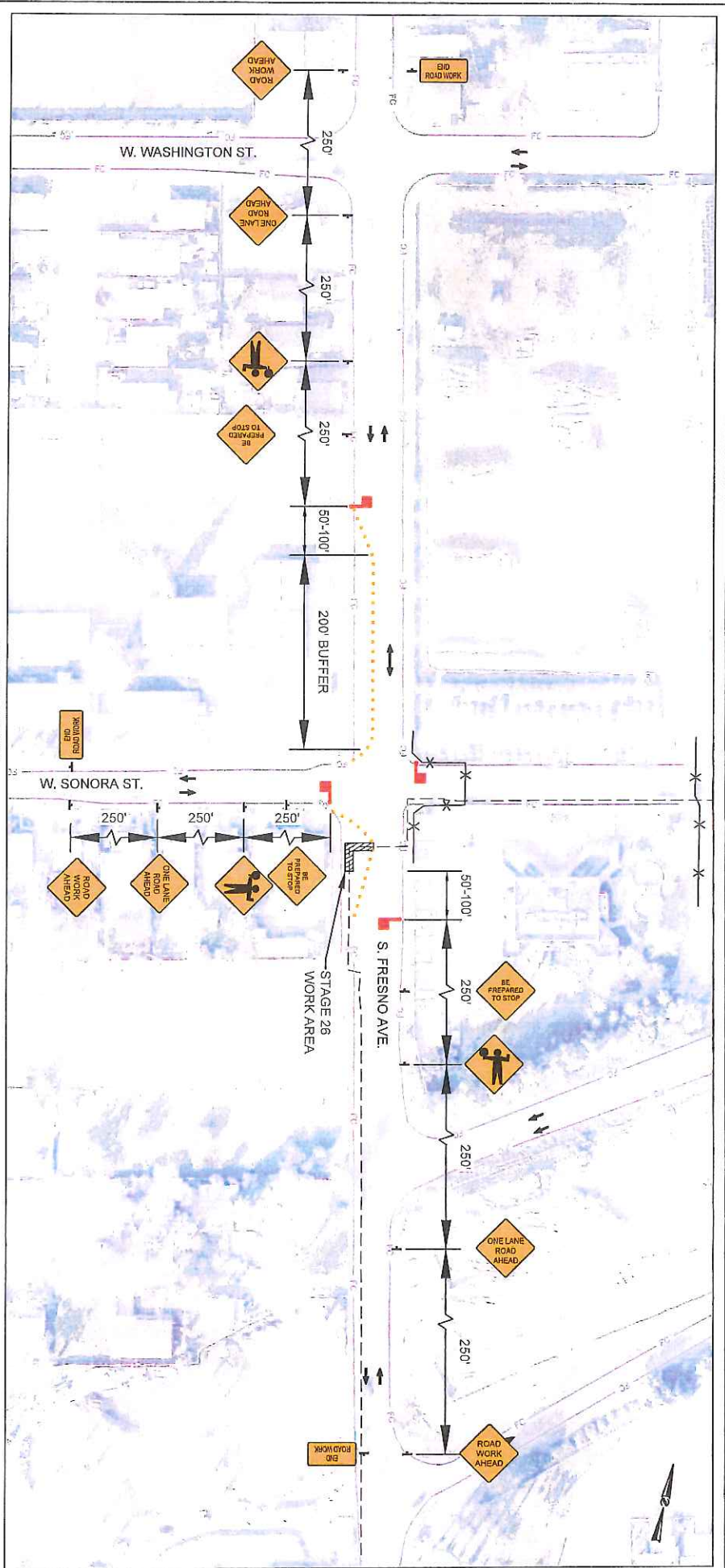


TABLE 1

TABLE 2

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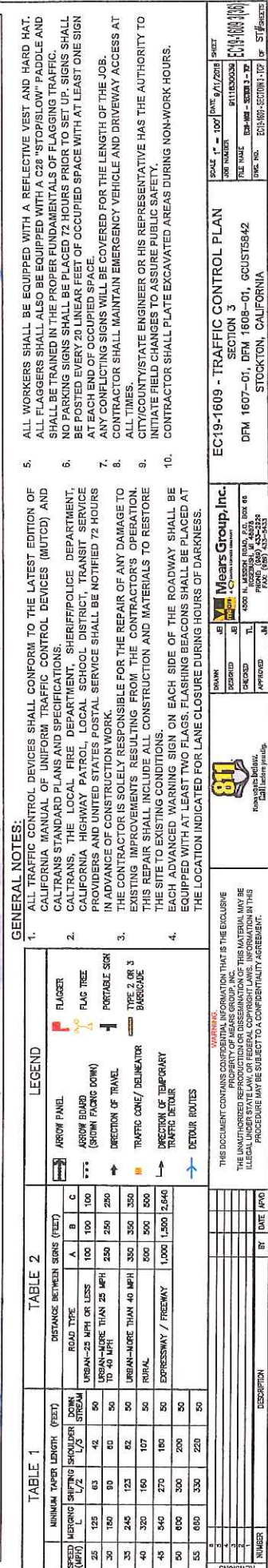
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DISTANCE BETWEEN SIGNS	ROAD TYPE	MINIMUM PAPER LENGTH (FEET)		DOING STREAM
		MERGING SHIFTER	SHOULDER 1/2	
100	URBAN-25 MPH OR LESS	25	125	63
100	URBAN-MORE THAN 25 MPH TO 40 MPH	30	150	80
250	URBAN-MORE THAN 40 MPH	35	245	123
300	RURAL	40	320	160
500	EXPRESSWAY / FREEWAY	45	540	270
1,000		50	600	300
		55	650	350
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	ARROW PANEL			ARROW BOARD (SHOW FACING DOWN)			DIRECTION OF TRAVEL			TRAFFIC CONE/ DELINEATOR			DIRECTION OF TEMPORARY TRAFFIC DETOUR			DETOUR ROUTES			
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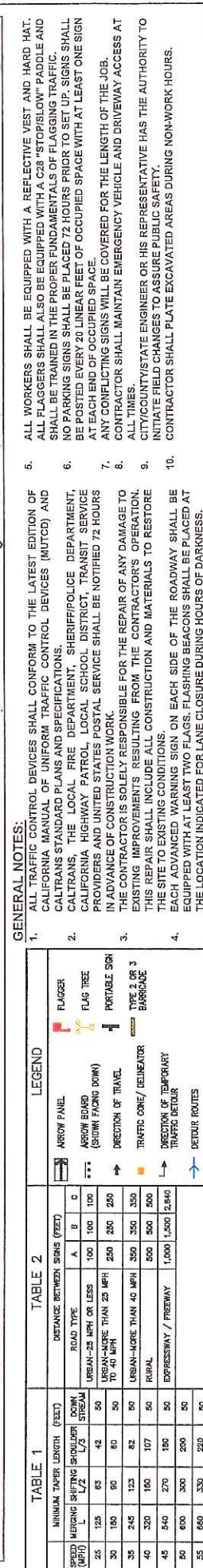
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[illegible]

- | | | | |
|--|---|---|--|
| 5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
10. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS. | EC-19-1609 - TRAFFIC CONTROL PLAN
SECTION 3
DFM 1607--01, DFM 1608--01, GCUST5842
STOCKTON, CALIFORNIA | SCALE: 1" = 100'
JOB NUMBER: 1011
FILE NAME: EC-19-1609 - SECTION 3 - 1P
FILE PATH: EC-19-1609-1\101 | DATE: 6/11/2016
SHEET: 1 OF 1
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WARNING:

811 **Where's below.**

DESIGNED	JB
CHECKED	TL
APPROVED	TL



Mears Group, Inc.

A Quality Service Company

4500 N. MISSION ROAD, P.O. BOX 88
 ROCKFORD, IL 61108
 PHONE: (815) 433-2528

4500 N. MISSION ROAD, P.O. BOX 88
 ROCKFORD, IL 61108
 PHONE: (815) 433-2528

SECTION 7
DREG4310
STOCKTON, CALIFORNIA

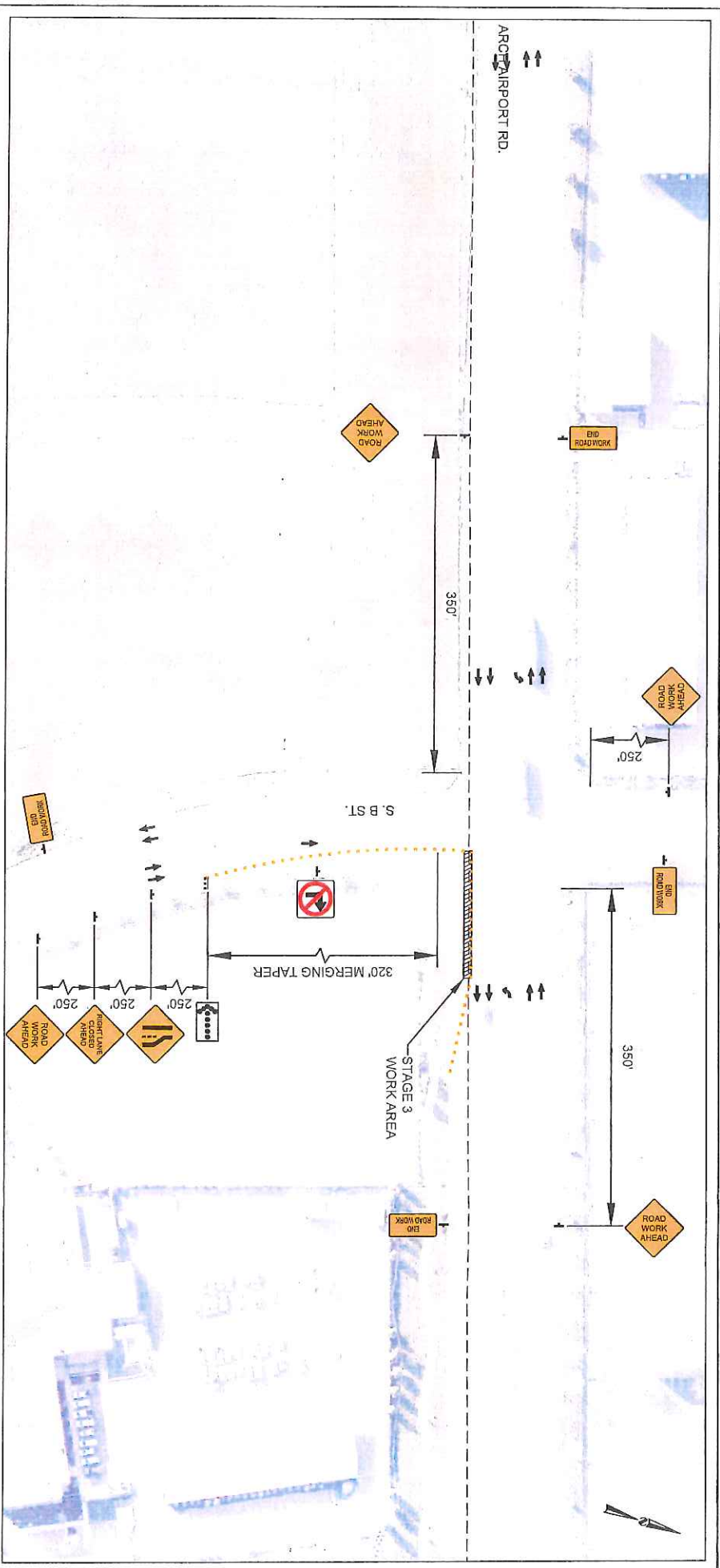
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LEGEND

- ARROW PANEL
- FLASHER
- ARROW BOARD
- FLAG TREE
- (DOWN PLAIN DOWN)
- PARALLEL SIGN
- DIRECTION OF TRAVEL
- TYPE 2 OR 3
- TRAVEL CODE / DELIMITER
- BARBICIDE
- DIRECTION OF TEMPORARY TRAFFIC DETOUR
- DETOUR ROUTES

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. CALIFORNIA, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND LOCAL STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTORS' OPERATIONS. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAHS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.

1. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT.
2. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOPSLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FLUORESCENT USE OF FLAGGING TRAFFIC.
3. NO PARKING SIGNS SHALL BE PLACED 12 HOURS PRIOR TO SET UP. SIGNS SHALL BE REMOVED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
4. ANY CONTACTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
5. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND BUREAUWAY ACCESS AT ALL TIMES.
6. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
7. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.
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- EC-19-1609 - TRAFFIC CONTROL PLAN
- SECTION 7
- DREG-4310
- STOCKTON, CA IORN/MA
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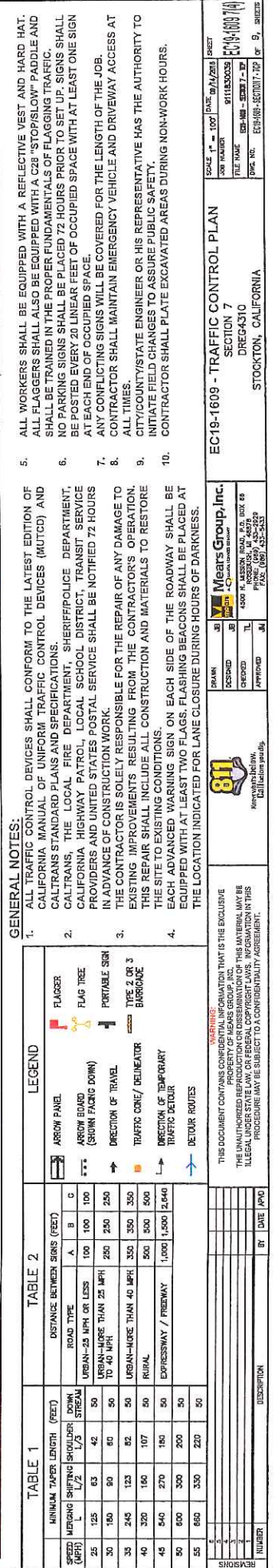
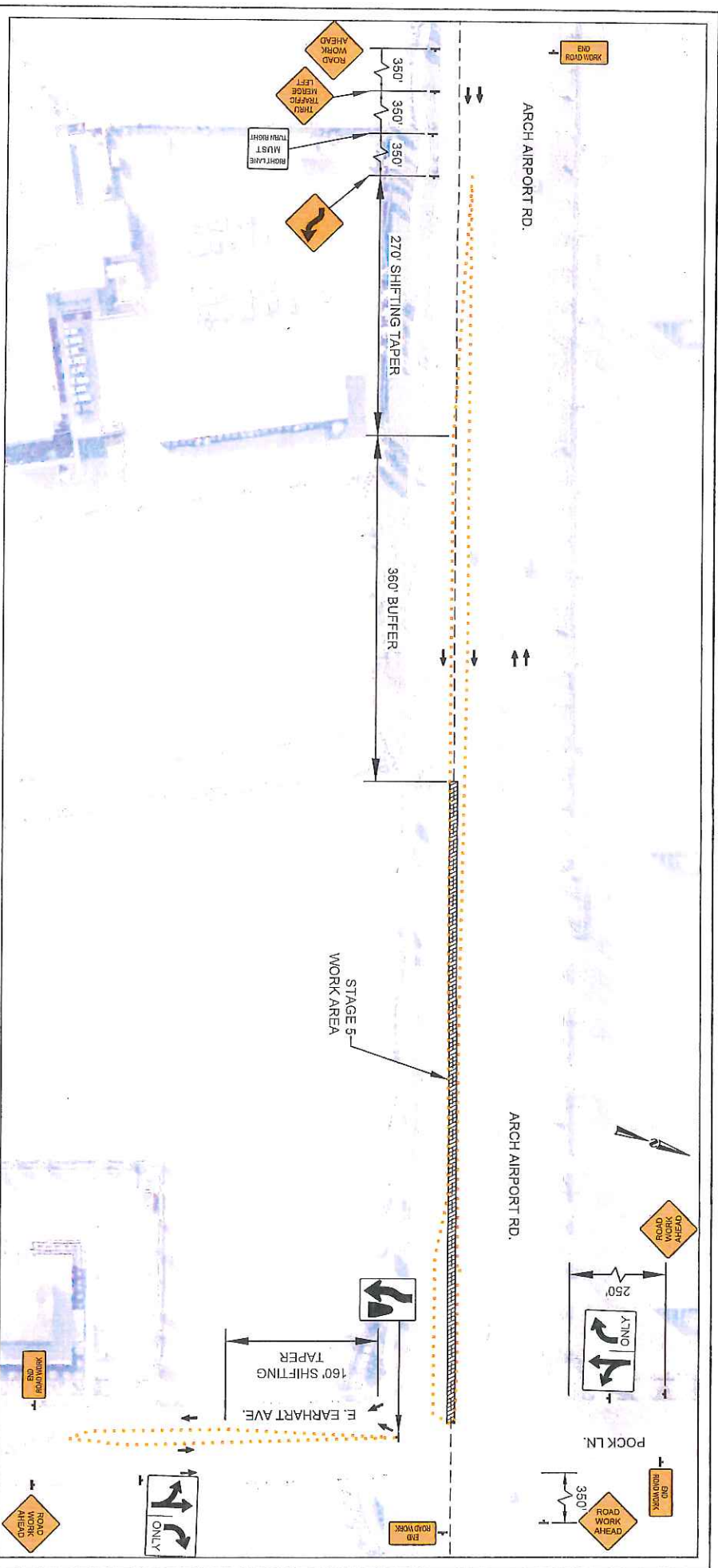


TABLE 1			TABLE 2					LEGEND		
SPACING (M/FT)	MINIMUM PAPER LENGTH (FEET)	MIDPOINT SHIFTING (SHOULDER TO STRIP)	DISTANCE BETWEEN SIGNS (FEET)					ARROW PANEL	FLAGGER	
			ROAD TYPE	A	B	C				
25	125	63	42	50	100	100	100	***	FLAG BOARD (SHOWN FACING DOWN)	
30	160	90	60	50	200	200	200	↑	PORTABLE SIGN TYPE 2 OR 3 BARRIAGE	
35	245	123	82	50	350	350	350	→	TRAFFIC CONE / DELIMITER	
40	320	160	107	50	500	500	500	↘	DIRECTION OF TEMPORARY TRAFFIC DETOUR	
45	540	270	160	50	1,000	1,500	2,040	↗	DETOUR ROUTES	
50	800	300	200	50						
55	650	330	220	50						



GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS.
2. CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHER BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT.
6. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
10. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

TABLE 1		TABLE 2			LEGEND	
MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	ROAD TYPE	A	B	C	ARROW PANEL
MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	ROAD TYPE	A	B	C	ARROW PANEL
125	63	42	50	100	100	ARROW BOARD (SHOW FACING DOWN)
180	90	60	50	250	250	DIRECTION OF TRAVEL
245	123	82	50	350	350	TRAFFIC CONE / BARRIER
320	160	107	50	500	500	TYPE 2 OR 3 BEACON
440	270	180	50	1,000	1,500	DIRECTION OF TRAVEL
50	300	200	50			TRAFFIC BEACON
55	330	220	50			DETAILS ROUTES

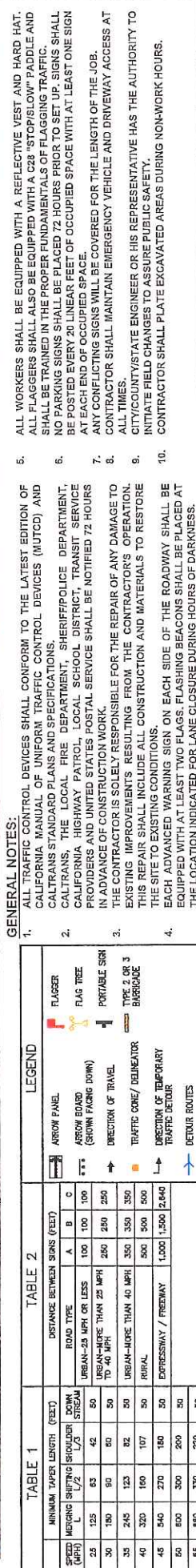


TABLE 1	TABLE 2	LEGEND
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TABLE 1				TABLE 2				LEGEND	
SPEED (MPH)	MINIMUM WIDENING (FEET)	MINIMUM SHOULDER WIDTH (FEET)	MINIMUM LENGTH OF STREAM (FEET)	ROAD TYPE	A	B	C	ARROW PANEL	FLAGGER
25	25	12.5	65	45	50	100	100	ARROW BOARD (SHOWING FACING DOWN)	FLAG TREE
35	30	15.0	60	60	50	250	250	↑	PORTABLE SIGN TYPE 2 OR 3 BASECOURSE
35	35	24.5	123	82	50	350	350	→	TRAFFIC CODE/ DELINEATOR
40	40	32.0	160	107	50	500	500	↘	DIRECTION OF TRAVEL
45	45	34.0	270	180	50	1,000	1,500	↗	DIRECTION OF TEMPORARY TRAFFIC DETOUR
50	50	40.0	350	269	50	1,500	2,840	↖	ROUTES

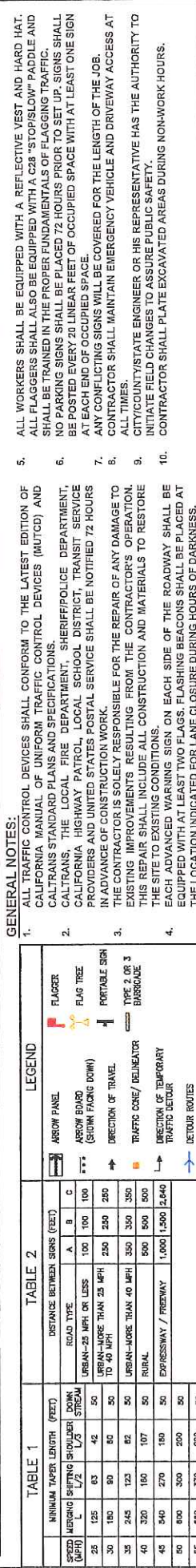
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811
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EC19-1609 - TRAFFIC CONTROL PLAN
SECTION 7
DREG4310
STOCKTON, CALIFORNIA

SCALE 1" = 100'	DATE 02/14/2018	SHEET
JOB NUMBER	9111B300339	EC19-1609 7/6
FILE NAME	EC9-1609 - SECTION 7 - TP	of 9, SECTION
CW2. NO.	EC9-1609 - SECTION 7 - TOP	

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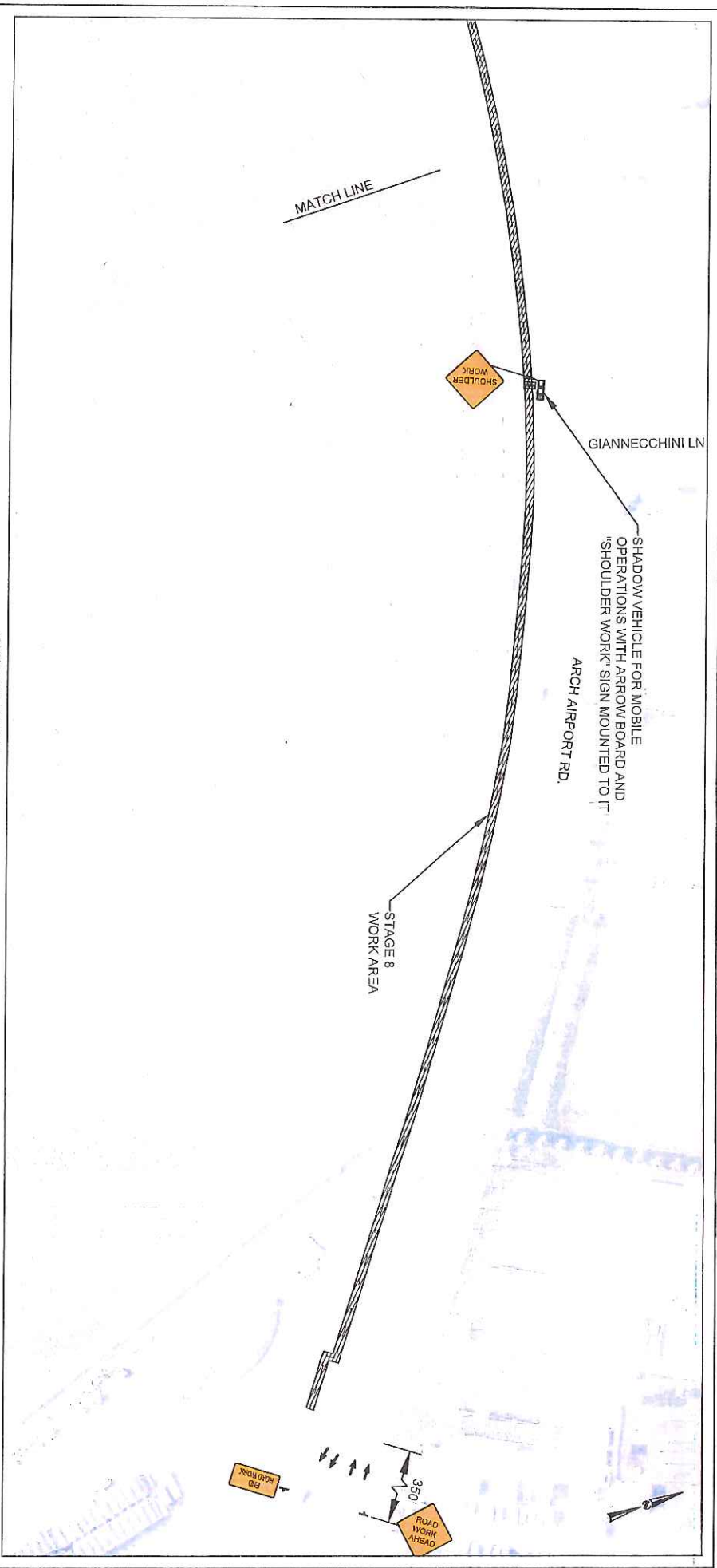


TABLE 1		TABLE 2	
MINIMUM TRAILER LENGTH (FEET)	MINIMUM TRAILER WIDTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	
MINIMUM TRAILER LENGTH (FEET)	MINIMUM TRAILER WIDTH (FEET)	A	B
25	125	100	100
35	165	200	200
45	205	300	300
55	245	400	400
65	285	500	500
75	325	600	600
85	365	700	700
95	405	800	800
105	445	900	900
115	485	1,000	1,000
125	525	1,100	1,100
135	565	1,200	1,200
145	605	1,300	1,300
155	645	1,400	1,400
165	685	1,500	1,500
175	725	1,600	1,600
185	765	1,700	1,700
195	805	1,800	1,800
205	845	1,900	1,900
215	885	2,000	2,000
225	925	2,100	2,100
235	965	2,200	2,200
245	1,005	2,300	2,300
255	1,045	2,400	2,400
265	1,085	2,500	2,500
275	1,125	2,600	2,600
285	1,165	2,700	2,700
295	1,205	2,800	2,800
305	1,245	2,900	2,900
315	1,285	3,000	3,000
325	1,325	3,100	3,100
335	1,365	3,200	3,200
345	1,405	3,300	3,300
355	1,445	3,400	3,400
365	1,485	3,500	3,500
375	1,525	3,600	3,600
385	1,565	3,700	3,700
395	1,605	3,800	3,800
405	1,645	3,900	3,900
415	1,685	4,000	4,000
425	1,725	4,100	4,100
435	1,765	4,200	4,200
445	1,805	4,300	4,300
455	1,845	4,400	4,400
465	1,885	4,500	4,500
475	1,925	4,600	4,600
485	1,965	4,700	4,700
495	2,005	4,800	4,800
505	2,045	4,900	4,900
515	2,085	5,000	5,000
525	2,125	5,100	5,100
535	2,165	5,200	5,200
545	2,205	5,300	5,300
555	2,245	5,400	5,400
565	2,285	5,500	5,500
575	2,325	5,600	5,600
585	2,365	5,700	5,700
595	2,405	5,800	5,800
605	2,445	5,900	5,900
615	2,485	6,000	6,000
625	2,525	6,100	6,100
635	2,565	6,200	6,200
645	2,605	6,300	6,300
655	2,645	6,400	6,400
665	2,685	6,500	6,500
675	2,725	6,600	6,600
685	2,765	6,700	6,700
695	2,805	6,800	6,800
705	2,845	6,900	6,900
715	2,885	7,000	7,000
725	2,925	7,100	7,100
735	2,965	7,200	7,200
745	3,005	7,300	7,300
755	3,045	7,400	7,400
765	3,085	7,500	7,500
775	3,125	7,600	7,600
785	3,165	7,700	7,700
795	3,205	7,800	7,800
805	3,245	7,900	7,900
815	3,285	8,000	8,000
825	3,325	8,100	8,100
835	3,365	8,200	8,200
845	3,405	8,300	8,300
855	3,445	8,400	8,400
865	3,485	8,500	8,500
875	3,525	8,600	8,600
885	3,565	8,700	8,700
895	3,605	8,800	8,800
905	3,645	8,900	8,900
915	3,685	9,000	9,000
925	3,725	9,100	9,100
935	3,765	9,200	9,200
945	3,805	9,300	9,300
955	3,845	9,400	9,400
965	3,885	9,500	9,500
975	3,925	9,600	9,600
985	3,965	9,700	9,700
995	4,005	9,800	9,800
1005	4,045	9,900	9,900
1015	4,085	10,000	10,000
1025	4,125	10,100	10,100
1035	4,165	10,200	10,200
1045	4,205	10,300	10,300
1055	4,245	10,400	10,400
1065	4,285	10,500	10,500
1075	4,325	10,600	10,600
1085	4,365	10,700	10,700
1095	4,405	10,800	10,800
1105	4,445	10,900	10,900
1115	4,485	11,000	11,000
1125	4,525	11,100	11,100
1135	4,565	11,200	11,200
1145	4,605	11,300	11,300
1155	4,645	11,400	11,400
1165	4,685	11,500	11,500
1175	4,725	11,600	11,600
1185	4,765	11,700	11,700
1195	4,805	11,800	11,800
1205	4,845	11,900	11,900
1215	4,885	12,000	12,000
1225	4,925	12,100	12,100
1235	4,965	12,200	12,200
1245	5,005	12,300	12,300
1255	5,045	12,400	12,400
1265	5,085	12,500	12,500
1275	5,125	12,600	12,600
1285	5,165	12,700	12,700
1295	5,205	12,800	12,800
1305	5,245	12,900	12,900
1315	5,285	13,000	13,000
1325	5,325	13,100	13,100
1335	5,365	13,200	13,200
1345	5,405	13,300	13,300
1355	5,445	13,400	13,400
1365	5,485	13,500	13,500
1375	5,525	13,600	13,600
1385	5,565	13,700	13,700
1395	5,605	13,800	13,800
1405	5,645	13,900	13,900
1415	5,685	14,000	14,000
1425	5,725	14,100	14,100
1435	5,765	14,200	14,200
1445	5,805	14,300	14,300
1455	5,845	14,400	14,400
1465	5,885	14,500	14,500
1475	5,925	14,600	14,600
1485	5,965	14,700	14,700
1495	6,005	14,800	14,800
1505	6,045	14,900	14,900
1515	6,085	15,000	15,000
1525	6,125	15,100	15,100
1535	6,165	15,200	15,200
1545	6,205	15,300	15,300
1555	6,245	15,400	15,400
1565	6,285	15,500	15,500
1575	6,325	15,600	15,600
1585	6,365	15,700	15,700
1595	6,405	15,800	15,800
1605	6,445	15,900	15,900
1615	6,485	16,000	16,000
1625	6,525	16,100	16,100
1635	6,565	16,200	16,200
1645	6,605	16,300	16,300
1655	6,645	16,400	16,400
1665	6,685	16,500	16,500
1675	6,725	16,600	16,600
1685	6,765	16,700	16,700
1695	6,805	16,800	16,800
1705	6,845	16,900	16,900
1715	6,885	17,000	17,000
1725	6,925	17,100	17,100
1735	6,965	17,200	17,200
1745	7,005	17,300	17,300
1755	7,045	17,400	17,400
1765	7,085	17,500	17,500
1775	7,125	17,600	17,600
1785	7,165	17,700	17,700
1795	7,205	17,800	17,800
1805	7,245	17,900	17,900
1815	7,285	18,000	18,000
1825	7,325	18,100	18,100
1835	7,365	18,200	18,200
1845	7,405	18,300	18,300
1855	7,445	18,400	18,400
1865	7,485	18,500	18,500
1875	7,525	18,600	18,600
1885	7,565	18,700	18,700
1895	7,605	18,800	18,800
1905	7,645	18,900	18,900
1915	7,685	19,000	19,000
1925	7,725	19,100	19,100
1935	7,765	19,200	19,200
1945	7,805	19,300	19,300
1955	7,845	19,400	19,400
1965	7,885	19,500	19,500
1975	7,925	19,600	19,600
1985	7,965	19,700	19,700
1995	8,005	19,800	19,800
2005	8,045	19,900	19,900
2015	8,085	20,000	20,000
2025	8,125	20,100	20,100
2035	8,165	20,200	20,200
2045	8,205	20,300	20,300
2055	8,245	20,400	20,400
2065	8,285	20,500	20,500
2075	8,325	20,600	20,600
2085	8,365	20,700	20,700
2095	8,405	20,800	20,800
2105	8,445	20,900	20,900
2115	8,485	21,000	21,000
2125	8,525	21,100	21,100
2135	8,565	21,200	21,200
2145	8,605	21,300	21,300
2155	8,645	21,400	21,400
2165	8,685	21,500	21,500
2175	8,725	21,600	21,600
2185	8,765	21,700	21,700
2195	8,805	21,800	21,800
2205	8,845	21,900	21,900
2215	8,885	22,000	22,000
2225	8,925	22,100	22,100
2235	8,965	22,200	22,200
2245	9,005	22,300	22,300
2255	9,045	22,400	22,400
2265	9,085	22,500	22,500
2275	9,125	22,600	22,600
2285	9,165	22,700	22,700
2295	9,205	22,800	22,800
2305	9,245	22,900	22,900
2315	9,285	23,000	23,000
2325	9,325	23,100	23,100
2335	9,365	23,200	23,200
2345	9,405	23,300	23,300
2355	9,445	23,400	23,400
2365	9,485	23,500	23,500
2375	9,525	23,600	23,600
2385	9,565	23,700	23,700
2395	9,605	23,800	23,800
2405	9,645	23,900	23,900
2415	9,685	24,000	24,000
2425	9,725	24,100	24,100
2435	9,765	24,200	24,200
2445	9,805	24,300	24,300
2455	9,845	24,400	24,400
2465	9,885	24,500	24,500
2475	9,925	24,600	24,600
2485	9,965	24,700	24,700
2495	10,005	24,800	24,800
2505	10,045	24,900	24,900
2515	10,085	25,000	25,000
2525	10,125	25,100	25,100
2535	10,165	25,200	25,200
2545	10,205	25,300	25,300
2555	10,245	25,400	25,400
2565	10,285	25,500	25,500
2575	10,325	25,600	25,600
2585	10,365	25,700	25,700
2595	10,405	25,800	25,800
2605	10,445	25,900	25,900
2615	10,485	26,000	26,000
2625	10,525	26,100	26,100
2635	10,565	26,200	26,200
2645	10,605	26,300	26,300
2655	10,645	26,400	26,400
2665	10,685	26,5	

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	d. The local fire district
b. The County of San Joaquin Sheriff's Office	e. The local school district
c. The local postal service	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.