



# 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-1801955  
Date Issued: 05/30/2018  
Start Date: 06/04/2018  
Exp. Date: 08/15/2018  
Project No: PWP110005  
Quad: SS

## ENCROACHMENT PERMIT

To: PACIFIC EXCAVATION, INC.  
9796 KENT ST.  
ELK GROVE, CA 95624

### Encroachment Type:

Traffic Signal Install			
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### Location:

ARCH-AIRPORT RD. @ "B" ST. INTERSECTION

In compliance with your request of **05/30/2018**, 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"*****Stockton Police Department shall be on-site during turn-on of signal*****City of Stockton Project*****
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FORMS: SS/WW, R-29

Est. Permit Fee: \$0.00

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.

SPECIAL CONDITIONS FOR  
ARCH-AIRPORT RD. & "B" ST. TRAFFIC SIGNAL  
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. No lane closures shall be allowed between the hours of: 6:00 AM – 8:00 AM and 4:00 PM – 6:00 PM.
3. 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.
4. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
5. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
6. School Buses shall be passed through the work zone with minimal delays.
7. 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.
8. 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.
9. 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)
10. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
11. 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.



12. 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.
13. Arch-Airport Road subject to pavement cuts shall receive a pavement overlay as per San Joaquin County Department of Public Works Improvement Standards Section 2-5.0 Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.
14. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications.
15. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
16. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
17. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
18. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
19. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
20. The contractor shall not conduct construction operations in rain or heavy fog conditions.



# APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date May 10, 2018

To: San Joaquin County  
Department of Public Works

Tim Paxinos Pacific Excavation Inc.  
(Applicant Name)

9796 Kent Street  
(Mailing Address)

Elk Grove, CA 95624  
(City, State, Zip Code)

(916) 686-2800  
(Area Code - Telephone Number)

Paxinos@pacificexcavation.com  
(Email Address)

## OFFICE USE ONLY

JOB #	<u>110005</u>	REF #	
APN		CR #	
EXP. DATE	<u>8/15/18</u>		
VALID	<u>6/4/18</u> TO <u>8/15/18</u>	DRIVEWAYS:	
STREET	<u>ARCH-AIRPORT RD. @ "B" ST.</u>	*	
AREA	<u>STOCKTON</u> QUAD <u>8</u>	*	
TYPE	<u>Traffic Signal Installation</u>	*	
FORMS	<u>SS/WH, R-29</u>		
NOTES			

Sketch (Detailed plans may be submitted)

See attached for plans

at Arch-Airport Rd / B St. ←

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the \_\_\_\_\_ side of \_\_\_\_\_ approximately \_\_\_\_\_ foot/mile \_\_\_\_\_ of \_\_\_\_\_ by performing the following work (description of work):  
electrical work.

Work will commence on or after June 4th for approximately 45 working 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.

P.E.  
Signature of Applicant - Title

5/10/18  
Date





TS & Safety Lighting at Arch-Airport & B St.

ID	Task Name	Duration	Start	Finish
1	USA/Pre Construction Photos	3 days	Wed 5/30/18	Fri 6/1/18
2	Pothole	2 days	Mon 6/4/18	Tue 6/5/18
3	Traffic Signal Bases	2 days	Wed 6/6/18	Thu 6/7/18
4	Bore/Install Conduits	2 days	Fri 6/8/18	Mon 6/11/18
5	Install Pull Boxes	2 days	Tue 6/12/18	Wed 6/13/18
6	Install Loops	2 days	Thu 6/14/18	Fri 6/15/18
7	Sawcut/Demo NE Corner	1 day	Mon 6/18/18	Mon 6/18/18
8	Grader/Set Forms NE Corner	1 day	Tue 6/19/18	Tue 6/19/18
9	Pour Ramp	1 day	Wed 6/20/18	Wed 6/20/18
10	Pave	1 day?	Thu 6/21/18	Thu 6/21/18
11	Install Traffic Signal Poles	1 day	Fri 6/22/18	Fri 6/22/18
12	Set Service/Controller	1 day	Mon 6/25/18	Mon 6/25/18
13	Pull Traffic Signal Wire	1 day	Tue 6/26/18	Tue 6/26/18
14	Hook Up	2 days	Wed 6/27/18	Thu 6/28/18
15	Pull Fiber	1 day	Fri 6/29/18	Fri 6/29/18
16	Splice Fiber	1 day	Mon 7/2/18	Mon 7/2/18
17	Clean Up	1 day	Tue 7/3/18	Tue 7/3/18
18	Turn On	1 day	Tue 7/10/18	Tue 7/10/18
19	Punchlist	5 days	Wed 7/11/18	Tue 7/17/18

Date: Tue 5/8/18

Task	Milestone	External Tasks	External Milestone	Deadline
Split	.....	→	◆	→
Progress	████████	→	→	



A-17-61  
3/21/17

**COUNTY-CITY AGREEMENT REGARDING THE OPERATION AND  
MAINTENANCE OF THE TRAFFIC SIGNAL SYSTEM AT THE  
INTERSECTION OF ARCH-AIRPORT ROAD AND "B" STREET**

THIS AGREEMENT FOR THE OPERATION AND MAINTENANCE OF THE TRAFFIC SIGNAL SYSTEM AT THE INTERSECTION OF ARCH-AIRPORT ROAD AND "B" STREET ("Agreement") is made and entered into this 21st day of March, 2017, by and between the CITY OF STOCKTON, a Municipal Corporation to the State of California, ("CITY") and the COUNTY OF SAN JOAQUIN, a political subdivision of the State of California, ("COUNTY").

WHEREAS, the intersection of Arch-Airport Road and "B" Street is located within the boundaries of the City and County residents; and

WHEREAS, the County and the City find from a traffic safety standpoint that a traffic actuated signal system at the above-mentioned intersection is warranted; and

WHEREAS, the County and the City further find that the maintenance and operation cost incurred be shared by County and City in proportions herein set forth; and

NOW, THEREFORE, it is mutually agreed by and between City and County as follows:

1. For the purpose of this agreement, City shall act as the fiscal agent for County.
2. City shall perform all work necessary, including the daily operation and maintenance of the traffic signal system.
3. City shall make all payments for the operation and maintenance of the traffic actuated signal system.
4. City shall make available to County all documents showing all costs incurred by City pertaining to said maintenance and operation.
5. City shall bill the County and the County shall pay the City each quarter for County's portion of the cost.
6. All costs of maintenance and energy shall be shared between County and City in the following ratio until such time that a change in the corporate limits of City alter the ratio of intersection approaches:

25 percent to be paid by County

75 percent to be paid by City



IN WITNESS WHEREOF, this agreement has been executed by the respective parties hereto through their respective authorized officers at Stockton, California, the day and year first above written,

COUNTY OF SAN JOAQUIN,  
political subdivision of the State of  
California

By: C.W.

CHARLES WINN, CHAIR  
BOARD OF SUPERVISORS

CITY OF STOCKTON

Kurt O. Wilson  
KURT O. WILSON  
CITY MANAGER

ATTEST:

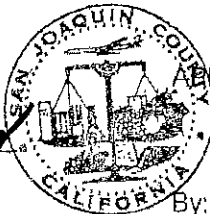
ATTEST:

MIMI DUZENSKI, Clerk of  
The Board of Supervisors of the  
County of San Joaquin, State of  
California

By: Bonnie Paige Breese  
for BONNIE PAIGE BRESEE  
CITY CLERK (INTERIM)



By: Rachel DeBord  
DEPUTY CLERK  
Deputy Clerk



APPROVED AS TO FORM:

By: Terri Mynuli  
DEPUTY CITY ATTORNEY

Recommended for Approval:

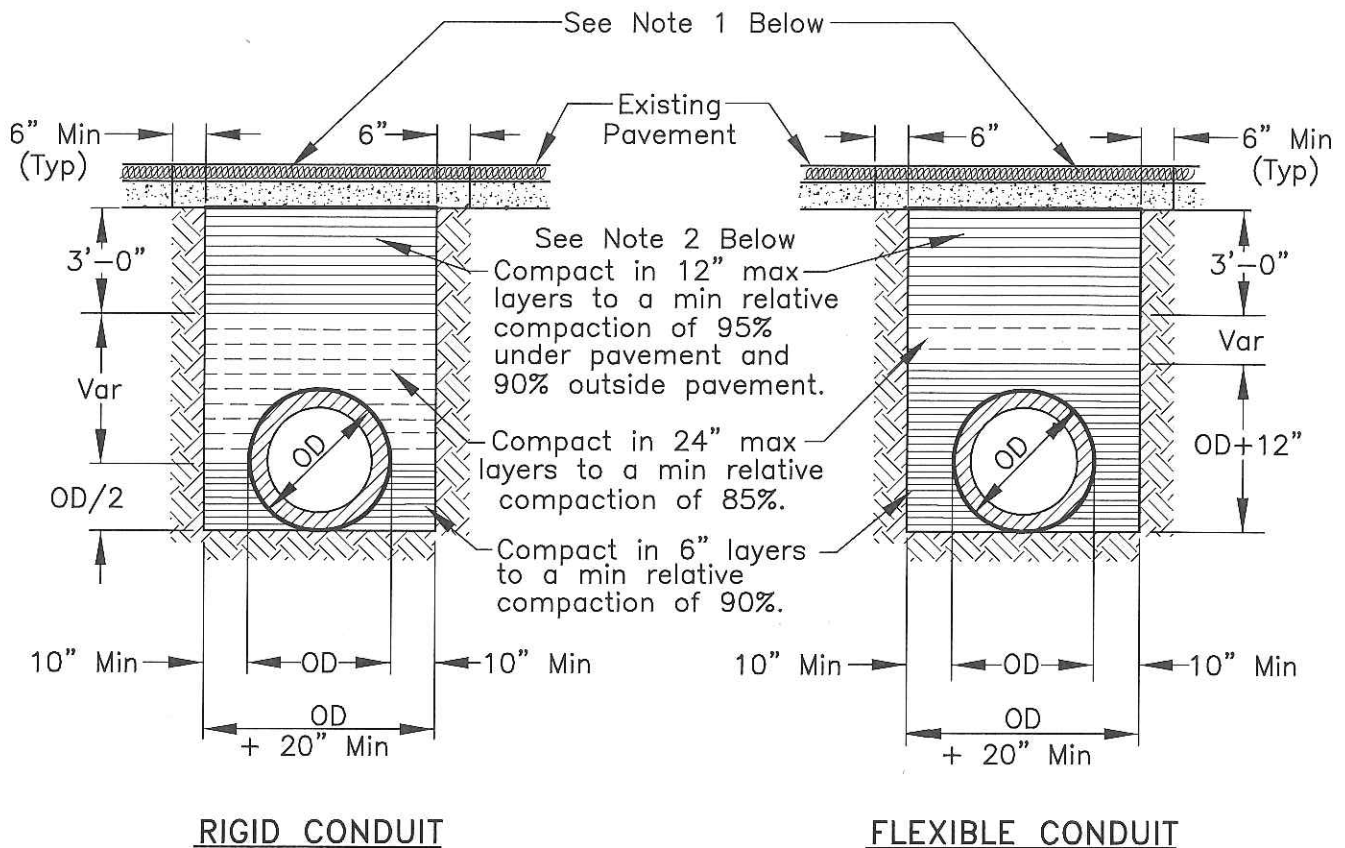
Harry S. Mavrogenes  
HARRY S. MAVROGENES  
STOCKTON METROPOLITAN AIRPORT  
SAN JOAQUIN COUNTY

APPROVED AS TO FORM:

By: Lawrence P. Meyers  
LAWRENCE P. MEYERS  
DEPUTY COUNTY COUNSEL

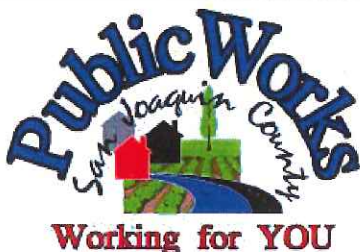






#### NOTES:

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. Gull*

No.	Revision	Description	Date

Std. Dwg. No.

**R-29**



## **GENERAL PROVISIONS**

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

#### **PUBLIC CONVENIENCE AND SAFETY:**

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

#### **STRUCTURES:**

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

#### **REPAIRS OF THE COUNTY RIGHT-OF-WAY:**

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

## SPECIAL PROVISIONS

### Winter Weather Utility Work

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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.

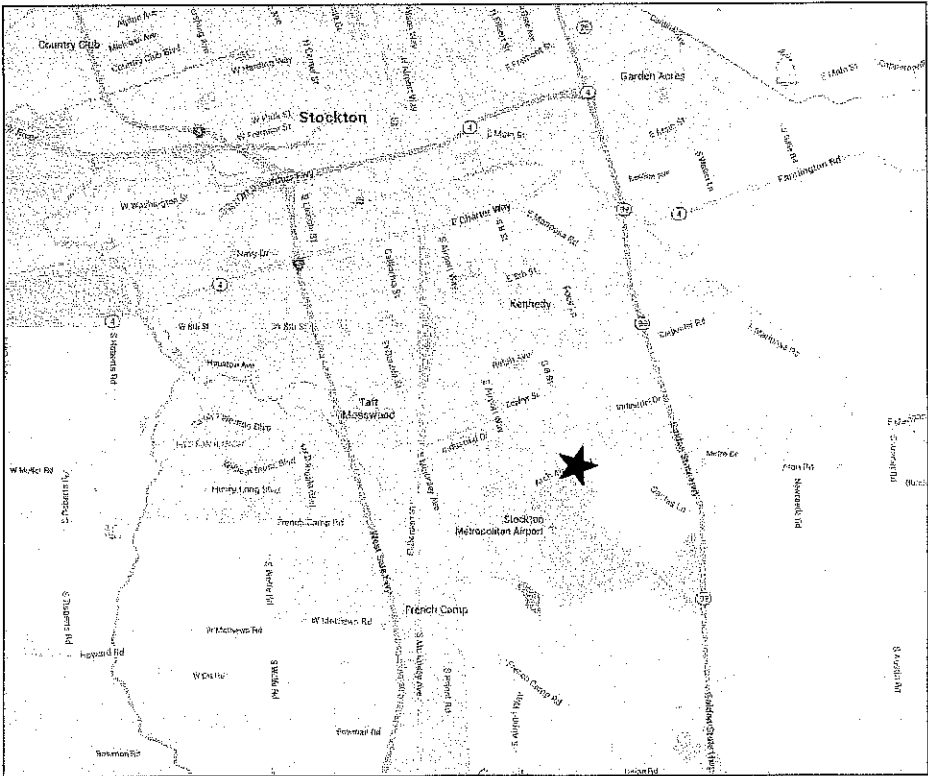


# TRAFFIC SIGNAL AND SAFETY LIGHTING AT ARCH-AIRPORT ROAD AND B STREET CITY OF STOCKTON

FEDERAL PROJECT No. HSIPL-5008(135)  
CITY OF STOCKTON PROJECT #PW1417


## INDEX OF SHEETS

SHEET No.	TITLE
GN-1	COVER & SHEET INDEX
GN-2	GENERAL NOTES
TS-1	TRAFFIC SIGNAL PLAN
TS-2	TRAFFIC SIGNAL SCHEDULE
TS-3	ROADWAY LIGHTING AND FIBER OPTIC LAYOUT
SC-1	FIBER SPLICING DIAGRAM
SS-1	SIGNING AND STRIPING
CD-1	CONSTRUCTION DETAILS
C1.0	CONTROL PLAN
C2.0	DEMOLITION PLAN
C3.0	PAVING PLAN
C4.0	GRADING PLAN
C5.0	EROSION CONTROL PLAN



VICINITY MAP



 Stantec Consulting Inc. 1340 Treat Blvd. Suite 300 Walnut Creek, CA 94597 Tel. (925)941-1400 Fax. (925)941-1401					ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION	
					COVER AND SHEET INDEX	
					DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA	
Revision No.	Description	Date	By	Approved By	SCALE AS SHOWN	APPROVED BY: 3/27/17 DATE
					DESIGNED BY ABH	SHEET NO. GN-1
					DRAWN BY MMT	OF 12 SHEETS
					CHECKED BY JB	PW1417
					RECORD DWGS.	PROJECT NO.

5279C



GENERAL NOTES

1. THESE PLANS ARE HEREBY MADE PART OF THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.
2. ALL WORK AND MATERIAL EMBRACED IN THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE CITY OF STOCKTON, DEPT. OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND PLANS, THE LATEST EDITIONS OF CALTRANS STANDARD PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS PROJECT.
3. POLES, PULL BOXES, DETECTOR HAND HOLES, INDUCTIVE LOOPS AND CONTROLLER CABINET LOCATIONS SHALL BE LOCATED IN THE FIELD BY THE ENGINEER WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER. TYPICALLY, DETECTOR HAND HOLES SHOULD BE INSTALLED ON LANE LINES.
4. CONTRACTOR SHALL RETURN ALL EXISTING & SALVAGEABLE EQUIPMENT AND SIGNS TO THE CITY OF STOCKTON CORPORATION YARD AT 1465 SOUTH LINCOLN STREET, STOCKTON, CALIFORNIA, 95206. CONTRACTOR SHALL NOTIFY CITY'S OPERATION AND MAINTENANCE AT (209)-937-8341 A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF DELIVERY.
5. CONTRACTOR SHALL BACKFILL WITH CUTBACK EACH NIGHT ANY AREAS NOT COMPLETED TO IT'S FINISHED STATE. ALL EXCAVATED AREAS SHALL BE PROTECTED FROM PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
6. SIDEWALK REMOVAL SHALL BE TO THE NEAREST SCORE MARK OR AS DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NEATLY SAW-CUT CONCRETE WHERE PULL BOXES ARE TO BE PLACED AND SHALL RESTORE THE SLAB TO MATCH THE EXISTING CONDITION.
7. ALL PULL BOXES SHALL BE STATE STANDARD NUMBER 5 UNLESS OTHERWISE NOTED ON PLAN.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY P.G.&E. AND OTHER UTILITY COMPANIES PRIOR TO START OF WORK. THE CONTRACTOR SHALL CALL U.S.A. (800-227-2600) 48 HOURS PRIOR TO ANY EXCAVATION.
9. CONDUITS RUNNING FROM PULL BOX TO HAND HOLE AND HAND HOLE TO HAND HOLE SHALL BE A MINIMUM 2" DIAMETER UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL CONTACT THE CITY OF STOCKTON CONSTRUCTION SECTION (209-937-8381) FOR A PRE-CONSTRUCTION CONFERENCE AFTER THE AWARD OF CONTRACT AND AT LEAST 7 WORKING DAYS IN ADVANCE OF WORK.
11. FLASHING INDICATIONS SHALL FLASH IN RED ON ALL PHASES.
12. CONTRACTOR SHALL, BY HAND, POT HOLE EXISTING UTILITIES TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK CALLED FOR ON THESE PLANS UNTIL APPLICABLE PERMITS HAVE BEEN OBTAINED. AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE DURING ANY CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO REPORT OR FAILURE TO STOP WORK AS DIRECTED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
16. THE CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION PRIOR TO PROVIDING ANY BIDS TO DETERMINE ANY AND ALL ITEMS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
17. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, THE CONSULTANT ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. CALL U.S.A. (800-227-2600). THE CONTRACTOR SHALL STOP WORK AROUND THE AREA OF CONFLICT UNTIL HE IS DIRECTED BY THE ENGINEER TO CONTINUE.
18. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES OR ANY OTHER TRADES, AND TO THE SATISFACTION OF THE CITY OF STOCKTON. UPON COMPLETION OF CONDUIT INSTALLATION, THE ACTUAL LOCATION OF THE CONDUITS SHALL BE NOTED ON AN AS-BUILT SET OF PRINTS AND FURNISHED TO THE CITY.
19. ALL VEHICLE INDICATIONS SHALL BE 12 INCH. ALL SIGNAL HEADS SHALL HAVE VENTILATED BACK PLATES.
20. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2012-0006-DWQ. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE SWCRB REGULATIONS. IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR FOLLOW THE REQUIREMENTS IN THE STORM WATER BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK WHICH IS PREPARED BY CALIFORNIA STORMWATER QUALITY ASSOCIATIONS (CASQA) AND ADOPTED BY THE STATE AND THE CITY.
21. ATTENTION IS CALLED TO: SECTION 1540(A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:
- "PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHETHER SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."
22. THE CONTRACTOR SHALL NOTIFY CITY OF STOCKTON OPERATION AND MAINTENANCE AT (209)-937-8341 A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF THE LAY OUT AND CUTTING OF TRAFFIC SIGNAL LOOPS.
23. THE CONTRACTOR SHALL MARK LOOP LOCATIONS, LOOP WIRE RUNS AND DETECTOR HAND HOLES AND HAVE LOCATIONS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
24. ALL EVP DETECTORS SHALL BE INSTALLED AS SHOWN ON PLAN. SEE EVP MOUNTING DETAIL ON SHEET CD-1.
25. CONTRACTOR TO REPLACE ALL DAMAGED ITEMS DURING CONSTRUCTION.
26. TURN ON OF TRAFFIC SIGNALS IS ONLY ALLOWED AFTER ALL THE DETECTORS ARE FUNCTIONALLY TESTED AND OPERATIONAL, SIGNAL FLASHED OUT, COMMUNICATIONS FUNCTIONAL, STRIPING AND SIGNING MODIFIED OR INSTALLED MATCHING THE SIGNAL INTENDED PHASING OPERATION. THE SIGNAL SHALL ONLY BE TURNED ON MONDAY THROUGH THURSDAY ON A NON-HOLIDAY WORK WEEK BETWEEN THE HOURS OF 10:00 A.M. AND 3:00 P.M. ALLOWING AMPLE TIME FOR ANY ISSUES TO ARISE. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR REVIEW AND APPROVAL BY THE CITY AND COUNTY NO LESS THAN 14 DAYS PRIOR TO COMMENCING WORK. THIS INCLUDES ALL WORK AREA, LANE AND TOTAL ROAD CLOSURES. ALL TRAFFIC CONTROL SIGNS NOT APPLICABLE TO THE WORK AREA SHALL BE SACKED OR REMOVED AS DIRECTED BY THE ENGINEER.

LEGEND

SEE CALTRANS STANDARD PLANS A10C, ES-1A, ES-1B, AND ES-1C FOR SYMBOLS AND ABBREVIATIONS. ALL SYMBOLS ARE STANDARD CALTRANS SYMBOLS, UNLESS NOTED ON THE PLAN SHEET.

	PROPOSED	EXISTING
SIGNAL POLE AND MAST ARM WITH LIGHT		
3-SECTION SIGNAL FACE WITH ARROW INDICATIONS		
3-SECTION SIGNAL FACE WITH BACKPLATE		
4-SECTION SIGNAL FACE WITH ARROW INDICATION (SEE SHEET CD-1 DETAIL B)		
PEDESTRIAN SIGNAL FACE		
SERVICE PEDESTAL		
CONTROLLER CABINET		
TYPE D LOOP DETECTOR		
TYPE A LOOP DETECTOR		
#5 PULL BOX (SEE CITY STANDARD DRAWING R-87 FOR INSTALLATION DETAILS)		
#6 PULL BOX (SEE CITY STANDARD DRAWING R-87 FOR INSTALLATION DETAILS)		
#6 PULL BOX WITH EXTENSION RING (SEE CITY STANDARD DRAWING R-87 FOR INSTALLATION DETAILS)		
DETECTOR HAND HOLE		
EMERGENCY VEHICLE DETECTOR		
MAST ARM MOUNTED STREET NAME SIGN		
MAST ARM MOUNTED SIGN		
PAN/TILT/ZOOM (PTZ) CAMERA		



Stantec Consulting Inc. 1340 Treat Blvd. Suite 300 Walnut Creek, CA 94597 Tel. (925)941-1400 Fax. (925)941-1401					ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION				
GENERAL NOTES									
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA									
Revision No.	Description	Date	By	Appr'd. By	SCALE AS SHOWN	APPROVED BY:	3/27/17	SHEET NO. GN-2	OF 12 SHEETS
					DESIGNED BY ABH				
					DRAWN BY WMT				
					CHECKED BY JB				
					RECORD DWGS.				
					CITY ENGINEER STOCKTON, CALIFORNIA				

5279.1C



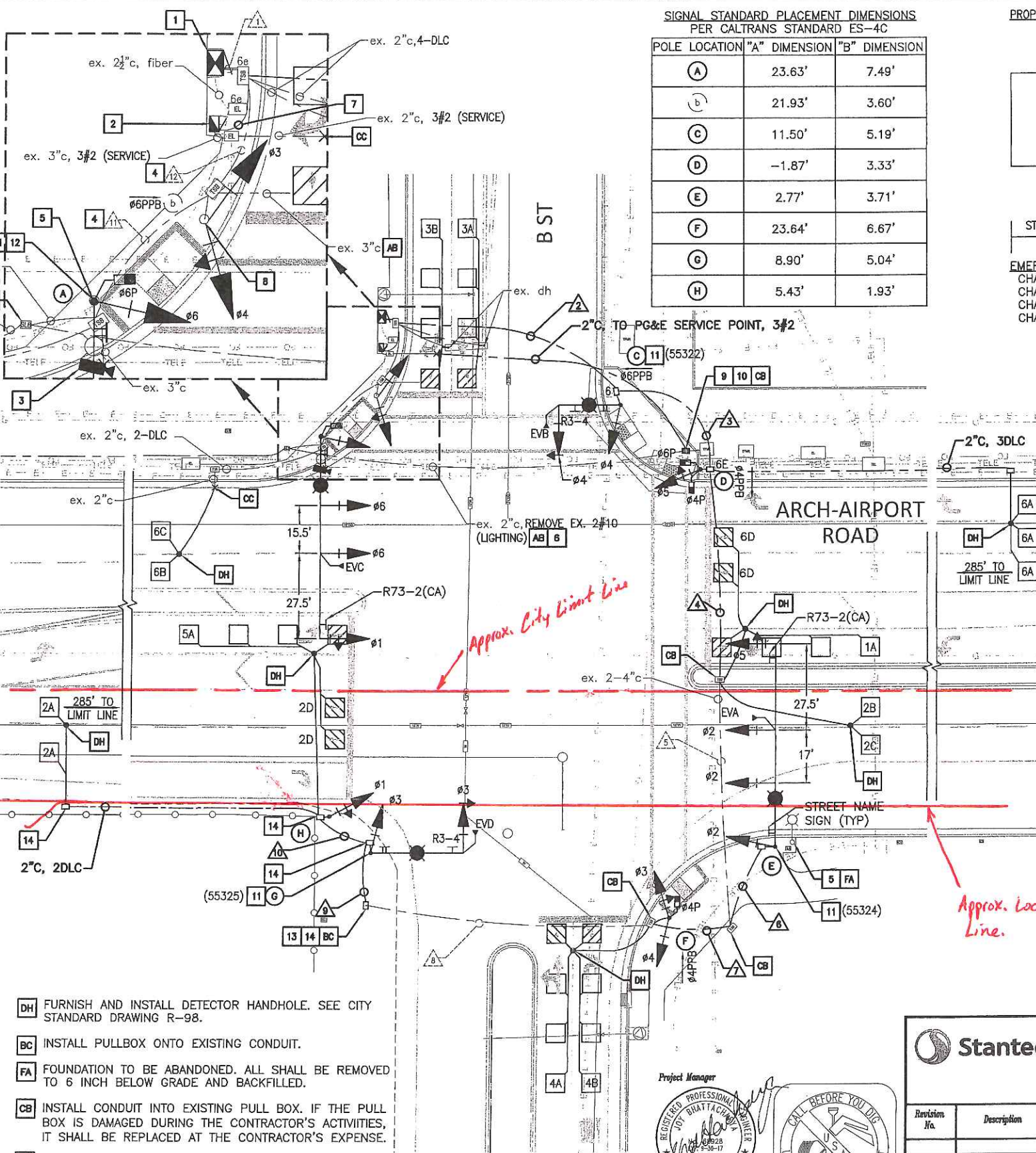


NOTES:

1. PLANS SHALL CONFORM WITH THE LATEST CITY OF STOCKTON STANDARDS AND CALTRANS STANDARDS.
2. POSITION OF SIGNAL STANDARDS, PULL BOXES, DETECTORS, AND CABINET EQUIPMENT SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. DIMENSIONS ARE TO CENTER OF POLE.
3. SEE SHEET CD-1 FOR DETAILS. DETAIL D SHOWS THE SIGNAL STANDARD PLACEMENT LAYOUT.
4. SEE SHEET TS-2 FOR CONDUCTOR AND EQUIPMENT SCHEDULE.
5. SEE SHEET SC-1 FOR FIBER SPLICING DIAGRAM AND FIBER OPTIC LAYOUT.
6. CLEAR, GRUB, AND LEVEL THE SOUTHWEST INTERSECTION CORNER BEFORE INSTALLING TRAFFIC SIGNAL EQUIPMENT.

PROJECT NOTES (THIS SHEET ONLY):

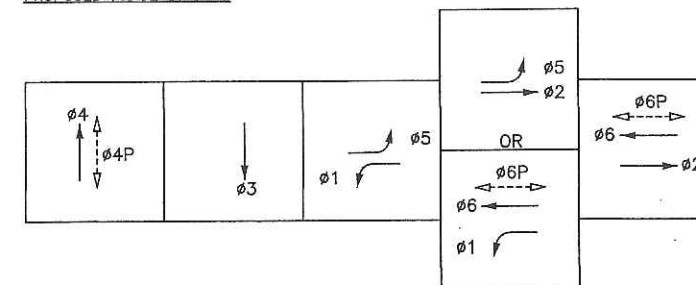
1. FURNISH AND INSTALL TYPE "P" CABINET WITH M60 SERIES CONTROLLER ON EXISTING FOUNDATION. CONTROLLER CABINET SHALL INCLUDE ALL EQUIPMENT NECESSARY TO OPERATE IN COMPATIBILITY WITH THE CITY OF STOCKTON TRAFFIC SIGNAL MASTER SYSTEM. FURNISH AND INSTALL 1-LIU FOR 24-STRAND FIBER TERMINATION, 2-12 PORT SIMPLEX SC-SC COUPLE PANELS, SINGLE-PORT VIDEO TRANSMITTER MODEM, AND ALL ASSOCIATED EQUIPMENT PER THE SPECIAL PROVISIONS. FURNISH AND INSTALL CITY STANDARD DISCRIMINATOR WITH ALL REQUIRED WIRING.
2. FURNISH AND INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE ON EXISTING FOUNDATION, PER THE CITY OF STOCKTON STANDARDS. CONTRACTOR SHALL COORDINATE A SERVICE CONNECTION WITH PG&E AS REQUIRED.
3. FURNISH AND INSTALL ONE PTZ CAMERA ON POLE AS SHOWN IN DETAIL A ON SHEET CD-1. EQUIPMENT INSTALLATION SHALL INCLUDE ALL MOUNTING HARDWARE, VIDEO AND DATA POWER CABLES, COMMUNICATION MODEMS (VIDEO AND DATA, ONE FIELD PTZ MODEM AND ONE CENTRAL PTZ MODEM) AND ASSOCIATED EQUIPMENT. CONTACT CITY TRAFFIC ENGINEERING (209-937-8411) PRIOR TO CAMERA INSTALLATION. REFER TO SPECIAL PROVISIONS FOR EQUIPMENT SPECIFICATIONS. CONTRACTOR SHALL WIRE POLE WITH CAMERA CABLES, DATA CABLE, AND POWER CABLE (CABLES SHALL BE CONTINUOUS BETWEEN CAMERA AND CONTROLLER UNIT).
4. FURNISH AND INSTALL 2#10 (ROADWAY LIGHTING).
5. REMOVE AND SALVAGE EXISTING LUMINAIRE. SPLICE CONDUCTORS TO PASS THROUGH.
6. PULL STREET LIGHT WIRING FROM ABANDONED CONDUIT AFTER PG&E RECONNECTION.
7. FURNISH AND INSTALL 3#8 (SIGNAL SERVICE), 2#10 (SAFETY LIGHTING), AND 2#10 (ROADWAY LIGHTING).
8. FURNISH AND INSTALL 12" 3-SECTION LEFT ARROW SIGNAL HEAD (ø4) AND 12" 3-SECTION SIGNAL HEAD (ø3) ON EXISTING 1-B POLE.
9. COORDINATE WITH PG&E TO DISCONNECT EXISTING AND RECONNECT ALL STREET LIGHTING THROUGH NEW TRAFFIC SIGNAL SERVICE CABINET.
10. ADJUST EXISTING PULL BOX TO GRADE. FURNISH & INSTALL CONCRETE COLLAR AROUND PULLBOX PER PROJECT SPECIFICATIONS SECTION 77-1.11 "PULL BOXES".
11. FURNISH AND INSTALL ELECTRICAL ID NUMBER ON NEW POLE. SEE POLE AND EQUIPMENT SCHEDULE FOR POLE ID NUMBER ON SHEET TS-2.
12. REUSE EXISTING FOUNDATION. REMOVE EXISTING STREET LIGHT POLE WITH ADAPTOR FROM FOUNDATION AND INSTALL NEW TRAFFIC SIGNAL POLE.
13. FURNISH AND INSTALL NO. 5 PULL BOX AT GRADE OVER EXISTING VERTICAL CONDUIT. EXCAVATE EXISTING NATIVE SOIL IN THE PULL BOX TO 6" MINIMUM DEPTH FROM THE BASE. CONDUIT IS TO BE CUT AND ADJUSTED TO 2" MINIMUM FROM THE NATIVE SOIL IN THE PULL BOX.
14. FURNISH & INSTALL CONCRETE COLLAR AROUND PULLBOX PER PROJECT SPECIFICATIONS SECTION 77-1.11 "PULL BOXES".
15. SPLICE 2#10 TO EXISTING STREET LIGHT 2#10 BEFORE ABANDONING WIRES IN PROJECT NOTE 6.



SIGNAL STANDARD PLACEMENT DIMENSIONS  
PER CALTRANS STANDARD ES-4C

POLE LOCATION	"A" DIMENSION	"B" DIMENSION
(A)	23.63'	7.49'
(b)	21.93'	3.60'
(C)	11.50'	5.19'
(D)	-1.87'	3.33'
(E)	2.77'	3.71'
(F)	23.64'	6.67'
(G)	8.90'	5.04'
(H)	5.43'	1.93'

PROPOSED PHASE DIAGRAM



STEADY DEMAND SEQUENCE

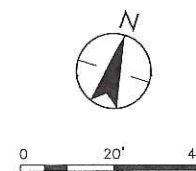
EMERGENCY VEHICLE PREEMPT (EVP)

CHANNEL A = ø2 + ø5  
CHANNEL B = ø4  
CHANNEL C = ø6 + ø1  
CHANNEL D = ø3

SENSOR TABLE

CHANNEL	DETECTOR	LOOP DETECTORS	# OF LOOPS	NOTE
1		1A	4	CALL
2	1	2A	2	ADVANCE
3		3A	4	CALL
4		4B	4	CALL
5		5A	4	CALL
6	2	6A	3	ADVANCE
7		4A	4	CALL
8		3B	4	CALL
9		2D	2	BIKE
10	3	6D	2	BIKE
11				
12				
	4			
17		2B	1	SAMPLER
18	5	2C	1	SAMPLER
19		6B	1	SAMPLER
20		6C	1	SAMPLER

NOTES:  
SEE CITY OF STOCKTON STANDARD DRAWINGS R-96 FOR DETECTOR LOOP PLACEMENT AND R-97 LOOP INSTALLATION DETAILS. SEE SHEET CD-1 DETAIL F FOR SAMPLER LOOP INSTALLATION.



Stantec Consulting Inc. 1340 Treat Blvd. Suite 300 Walnut Creek, CA 94597 Tel. (925)941-1400 Fax. (925)941-1401		ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION	
		TRAFFIC SIGNAL PLAN	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		SCALE AS SHOWN DESIGNED BY ABH DRAWN BY MMT CHECKED BY JB RECORD DWGS.	
APPROVED BY: DATE: 3/27/17 CITY ENGINEER STOCKTON, CALIFORNIA		SHEET NO. TS-1 OF 12 SHEETS PROJECT NO. PW1417	

THIS SHEET IS ACCURATE FOR ELECTRICAL WORK ONLY.



800-227-2600

5279-2C





AWG	CIRCUIT	CONDUCTOR TABLE											
		RUNS											
		1*	2	3	4	5*	6	7	8*	9	10	11*	12*
NO. 14	Ø1 SIGNALS	6	3	3	3	3		3	3	3	3	3	3
	Ø2 SIGNALS	3	3	3	3	3	3						
	Ø3 SIGNALS	6	3	3	3	3		3	3	3			3
	Ø4 SIGNALS	6	3	3	3	3		3					3
	Ø5 SIGNALS	3	3	3	3	3	3						
	Ø6 SIGNALS	3										3	3
	Ø4P	2	2	2	2	2		2					
	Ø6P	4	2	2								2	2
	PPB(Ø4P)	1	1	1	1	1		1					
	PPB(Ø6P)	2	1										1
	PPB COMMON	1	1	1	1	1		1					1
	PEU	3										3	3
	SPARES	3	3	3	3	3	3	3	3	3	3	3	3
	TOTAL No. 14	43	25	24	22	22	9	16	9	9	6	14	22
NO. 10	SAFETY LIGHTING		2	2	2	2	2	2	2	2		2	2
	ROADWAY LIGHTING											2	2
	TOTAL No. 10		2	2	2	2	2	2	2	2		4	4
NO. 8	SIGNAL COMMON	1	1	1	1	1	1	1	1	1	1	1	1
	SIGNAL SERVICE	3											
	TOTAL No. 8	4	1	1	1	1	1	1	1	1	1	1	1
PPB	4-WIRE PPB CABLE			2								2	
DLC	Ø1	2	2	2	2								
	Ø2	2	2	2	2	2		2	2	2	2		
	Ø3	4											
	Ø4	4	4	4	4	4		4					
	Ø5	2	2	2	2	2		2	2	2	2		
	Ø6	3	3	3									
	Ø2 (SAMPLER)	2	2	2	2								
	Ø6 (SAMPLER)	2										2	2
	Ø2 BIKE	2	2	2	2	2		2	2	2	2		
	Ø6 BIKE	2	2	2	2								
EVP	TOTAL DLC	25	19	19	16	10		10	6	6	6	2	2
	EVA	1	1	1	1	1	1						
	EVB	1	1										
	EVC	1										1	1
	EVD	1	1	1	1	1		1	1	1			
CCTV	TOTAL CABLES	4	3	2	2	2	1	1	1	1		1	1
	POWER	1										1	1
	VIDEO/DATA	1										1	1
CCTV	TOTAL CABLES	2										2	2
CONDUIT SIZE (INCHES)		2-4"	4"	4"	4"	2-4"	3"	3"	2-4"	3"	3"	4"	4"
CONDUIT FILL		15%	20%	20%	16%	6%	6%	18%	4%	12%	8%	9%	9%

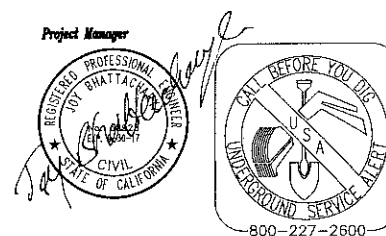
\* EXISTING CONDUITS. RUN NEW AND EXISTING TO REMAIN CONDUCTORS THROUGH EXISTING CONDUITS.

EQUIPMENT SCHEDULE												
LOC	POLE		MAST ARM		LUMINAIRE	SIGNAL MOUNTING					REMARKS	
	TYPE	HGT	SIG	LUM		PHASE	SECTION	VEHICLE	PED	PPB		
(A)	61-5-100 (2006 STANDARD)	30'	65'	15'	87 WATT LED	Ø1 Ø6 Ø6 Ø6	12"A 12" 12" 12"	MAS MAS MAS SV-1-T	Ø6P SP-1-T	-	FURNISH AND INSTALL EVP CHANNEL "C" ON TRAFFIC SIGNAL HEAD MOUNTING. INSTALL PTZ CAMERA ON LUMINAIRE MAST ARM. CONTRACTOR TO FURNISH AND INSTALL STREETLIGHT NUMBERS AS NOTED ON LAYOUT. INSTALL PHOTOELECTRIC UNIT (PEU) ON POLE. INSTALL STREET NAME SIGN ON MAST ARM. POLE STANDARD TO CONFORM WITH 2006 CALTRANS STANDARD. 61-5-100 POLE TO BE INSTALLED ON EXISTING 2006 STANDARD FOUNDATION. INSTALL STREET LIGHT NUMBER 55232 ON POLE.	
(b)	ex. 1-b	10'				Ø3 Ø4	12" 12"A	TV-2-T	-	Ø6P RIGHT	FURNISH AND INSTALL Ø3 AND Ø4 VEHICLE SIGNAL HEADS ON EXISTING 1-B POLE.	
(C)	19-4-100	30'	20'	15'	87 WATT LED	Ø4 Ø4	12"F 12"	MAS SV-1-T	-	Ø6P LEFT	FURNISH AND INSTALL EVP CHANNEL "B" ON TRAFFIC SIGNAL HEAD MOUNTING. CONTRACTOR TO FURNISH AND INSTALL STREETLIGHT NUMBERS AT EACH SIGNAL POLE (SEE NOTE 4). INSTALL STREET NAME SIGN ON MAST ARM. INSTALL STREET LIGHT NUMBER 55322 ON POLE.	
(D)	1-B	10'				Ø5	12"A	TV-1-T	Ø6P Ø4P SP-2-T	Ø4P RIGHT		
(E)	61-5-100	30'	65'	15'	87 WATT LED	Ø5 Ø2 Ø2 Ø2	12"A 12" 12" 12"	MAS MAS MAS SV-1-T	-	-	FURNISH AND INSTALL EVP CHANNEL "A" ON TRAFFIC SIGNAL HEAD MOUNTING. CONTRACTOR TO FURNISH AND INSTALL STREETLIGHT NUMBERS AS NOTED ON LAYOUT. INSTALL STREET NAME SIGN ON MAST ARM. INSTALL STREET LIGHT NUMBER 55324 ON POLE.	
(F)	1-B	10'				Ø3 Ø4	12"A 12"	TV-2-T	Ø4P SP-1-T	Ø4P RIGHT		
(G)	19-4-100	30'	30'	15'	87 WATT LED	Ø3 Ø3	12"F 12"	MAS SV-1-T	-	-	FURNISH AND INSTALL EVP CHANNEL "D" ON TRAFFIC SIGNAL HEAD MOUNTING. CONTRACTOR TO FURNISH AND INSTALL STREETLIGHT NUMBERS AT EACH SIGNAL POLE (SEE NOTE 4). INSTALL STREET NAME SIGN ON MAST ARM. INSTALL STREET LIGHT NUMBER 55325 ON POLE.	
(H)	1-B	10'				Ø1	12"A	TV-1-T	-	-		

- ALL EQUIPMENT IS NEW UNLESS INDICATED OTHERWISE.
- ALL PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOLS, AND SHALL BE THE COUNTDOWN TYPE. SEE SPECIAL PROVISIONS.
- PEDESTRIAN PUSH BUTTONS SHALL MEET ADA ACCESSIBILITY GUIDELINES. SEE SPECIAL PROVISIONS.
- REFER TO CITY STANDARD DRAWINGS R-94 FOR STREET NAME SIGN ASSEMBLY AND MOUNTING. STREET NAME SIGN SHALL BE MOUNTED AT INTERSECTION OF POLE AND MAST ARM AS SHOWN IN DETAIL.
- A: INDICATES ALL 12" ARROW HEAD
- F: INDICATES ALL 12" 4-SECTION HEAD WITH LEFT TURN ARROW, SEE DETAIL B ON SHEET CD-1

#### NOTES:

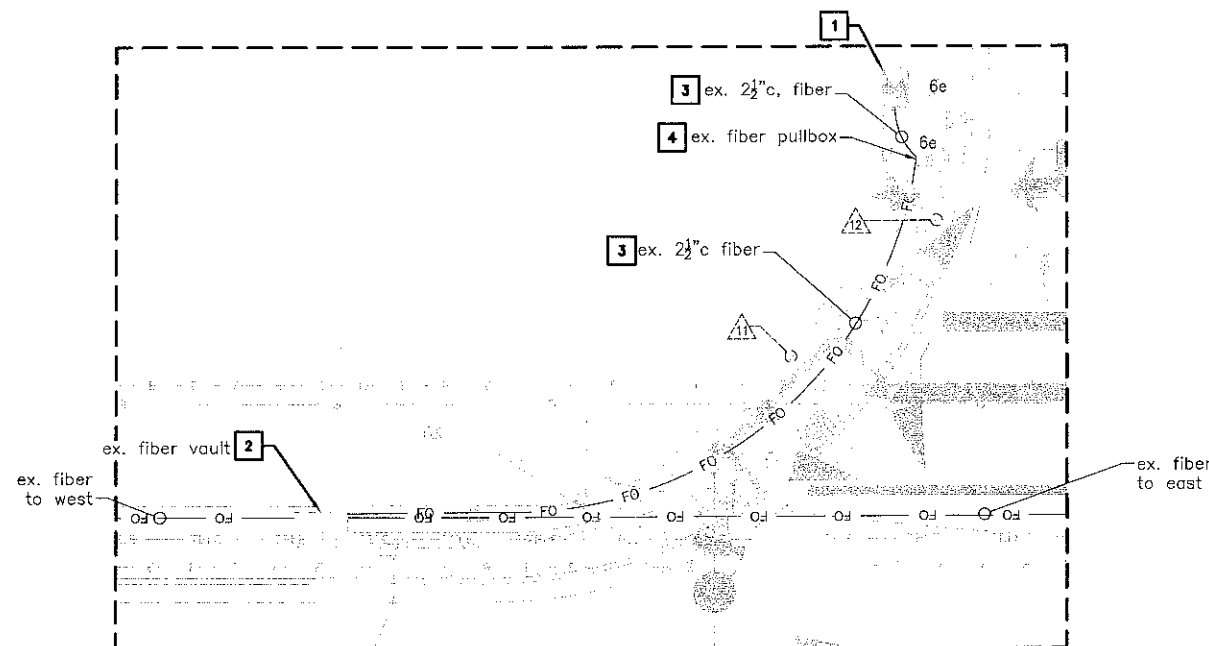
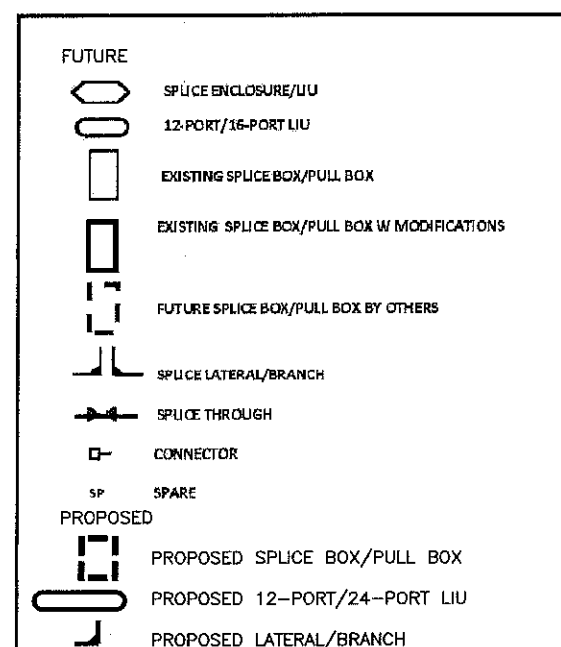
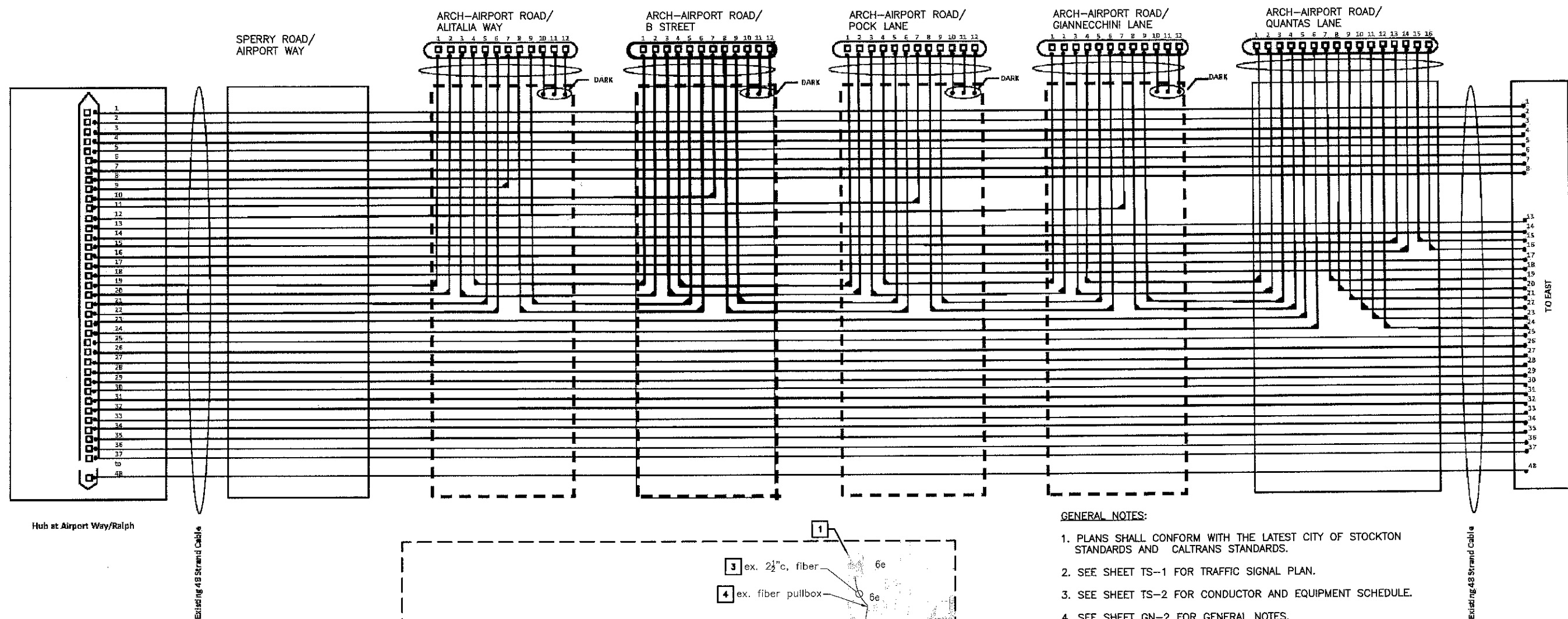
- SEE SHEET GN-2 FOR GENERAL NOTES.
- SEE SHEET TS-1 FOR TRAFFIC SIGNAL PLAN.
- SEE SHEET CD-1 FOR CONSTRUCTION DETAILS.
- CONTRACTOR TO INSTALL THE STREET LIGHT NUMBERS PER CITY STANDARD DRAWING R91. SEE REMARKS IN THE POLE SCHEDULE AND THE TRAFFIC SIGNAL LAYOUT FOR NUMBERING.



<b>Stantec</b> 1340 Treat Blvd. Suite 300 Walnut Creek, CA 94597 Tel. (925)941-1400 Fax. (925)941-1401					<b>ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION</b>  <b>TRAFFIC SIGNAL SCHEDULE</b>				
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA									
Revision No.	Description	Date	By	App'd. By	SCALE AS SHOWN DESIGNED BY ABH DRAWN BY MMT CHECKED BY JB RECORD DWGS.				
APPROVED BY: <i>[Signature]</i> DATE: 5/27/17					SHEET NO. TS-2 OF 12 SHEETS PROJECT NO. 14117				

5279-3C



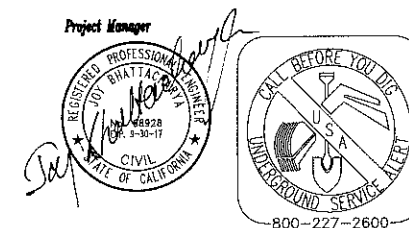


#### GENERAL NOTES:

1. PLANS SHALL CONFORM WITH THE LATEST CITY OF STOCKTON STANDARDS AND CALTRANS STANDARDS.
2. SEE SHEET TS-1 FOR TRAFFIC SIGNAL PLAN.
3. SEE SHEET TS-2 FOR CONDUCTOR AND EQUIPMENT SCHEDULE.
4. SEE SHEET GN-2 FOR GENERAL NOTES.
5. SEE SHEET CD-1 FOR WIRING DIAGRAM.

#### PROJECT NOTES (THIS SHEET ONLY):

- 1 FURNISH AND INSTALL TYPE "P" CABINET WITH M60 SERIES CONTROLLER ON EXISTING FOUNDATION. CONTROLLER CABINET SHALL INCLUDE ALL EQUIPMENT NECESSARY TO OPERATE IN COMPATIBILITY WITH THE CITY OF STOCKTON TRAFFIC SIGNAL MASTER SYSTEM. FURNISH AND INSTALL 1-LIU FOR 24-STRAND FIBER TERMINATION, 2-12 PORT SIMPLEX SC-SC COUPLE PANELS, SINGLE-PORT VIDEO TRANSMITTER MODEM, AND ALL ASSOCIATED EQUIPMENT PER THE SPECIAL PROVISIONS. FURNISH AND INSTALL CITY STANDARD DISCRIMINATOR WITH ALL REQUIRED WIRING.
- 2 FURNISH AND INSTALL ENCLOSURE CONNECTING 24-STRAND FIBER, LEAVING 12 STRANDS PROTECTED IN SPICE ENCLOSURE. COIL 50 FEET OF FIBER IN VAULT.
- 3 INSTALL 24-STRAND FIBER OPTIC CABLE INTO EXISTING CONDUIT
- 4 COIL 50 FEET OF FIBER IN PULLBOX.



Stantec Stantec Consulting Inc. 1340 Treat Blvd. Suite 300 Walnut Creek, CA 94597 Tel. (925)941-1400 Fax. (925)941-1401					<b>ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION</b>  <b>FIBER SPLICING DIAGRAM</b>	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA					SCALE: AS SHOWN DESIGNED BY: ABH DRAWN BY: WMT CHECKED BY: JB RECORD DNGS:	
APPROVED BY: CITY ENGINEER STOCKTON, CALIFORNIA					SHEET NO. SC-1 OF 12 SHEETS PW1417 PROJECT NO.	

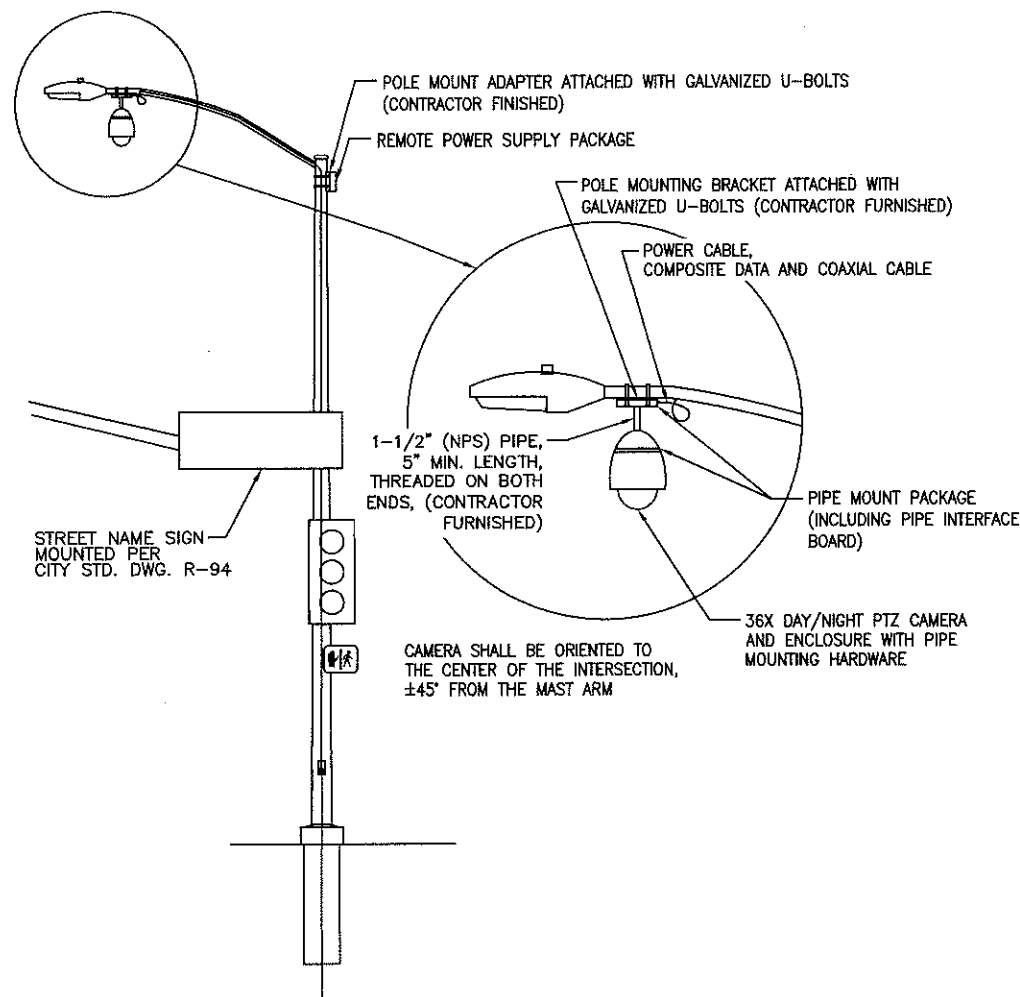
5279.4C



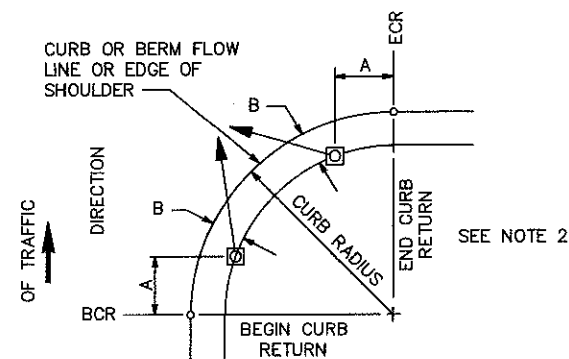






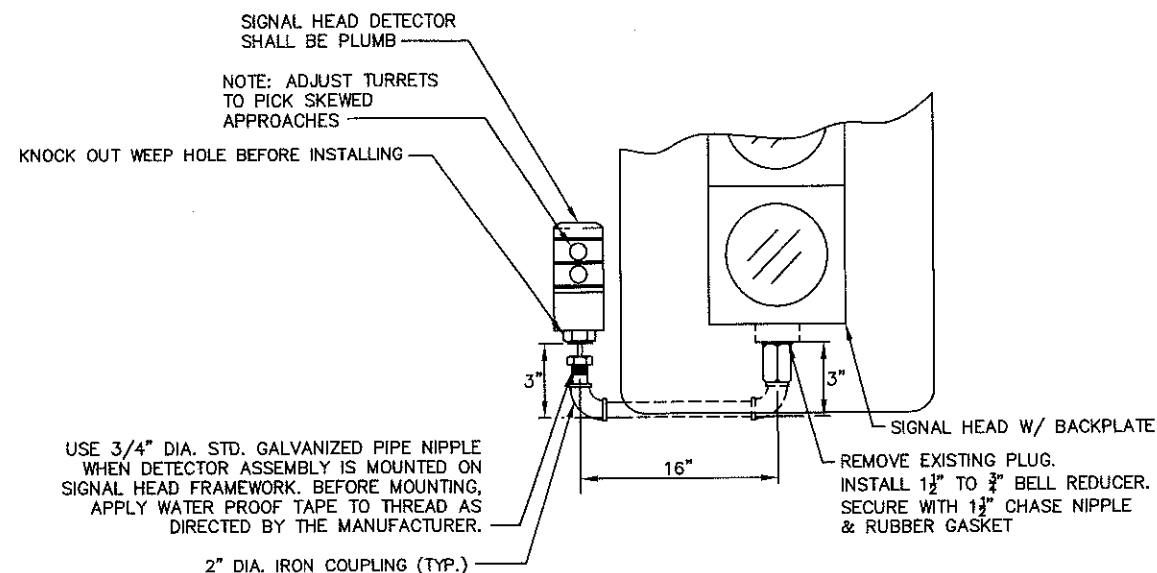


**SIGNAL LUMINAIRE CAMERA MOUNT DETAIL**  
NO SCALE  
**DETAIL A**

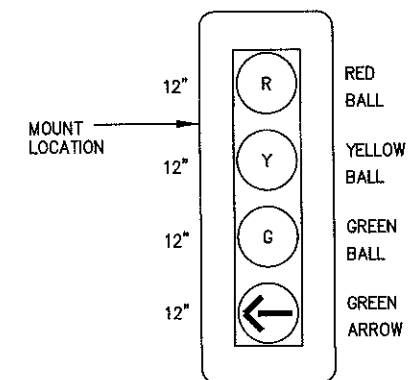


- NOTES:**
1. TYPICAL SIGNAL POLE PLACEMENT UNLESS DIMENSIONED ON PLANS.
  2. FOR A AND B DIMENSIONS, SEE POLE SCHEDULE, OR AS DIRECTED BY THE ENGINEER.

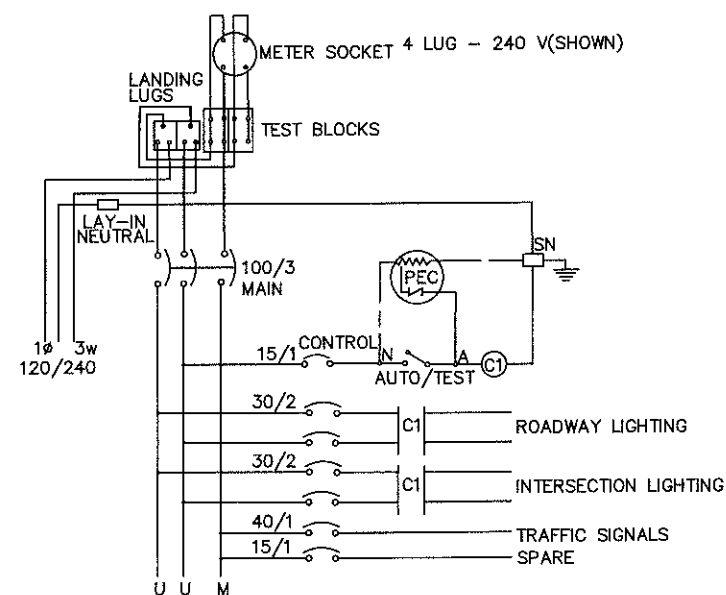
**SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS**  
NO SCALE  
**DETAIL D**



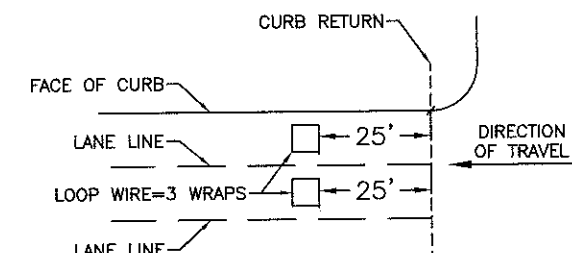
**EVP DETECTOR BOTTOM OF SIGNAL HEAD MOUNTING**  
NO SCALE  
**DETAIL C**



**4-SECTION SIGNAL HEAD**  
NO SCALE  
**DETAIL B**

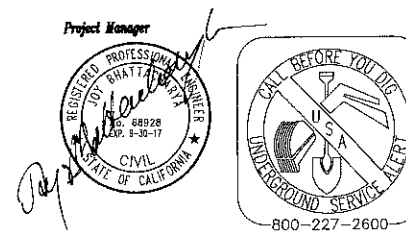


**TYPE III-AF SERVICE WIRING DIAGRAM**  
NO SCALE  
**DETAIL E**



**NOTE:**  
ALL SAMPLER LOOPS SHALL BE 6'X6' AND BE CENTERED IN THE LANE.

**SAMPLER LOOP PLACEMENT**  
DETAIL (TYPICAL)  
NO SCALE  
**DETAIL F**



<b>Stantec</b> Stantec Consulting Inc. 1340 Treat Blvd. Suite 300 Walnut Creek, CA 94597 Tel. (925)941-1400 Fax. (925)941-1401					<b>ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION</b>				
<b>CONSTRUCTION DETAILS</b>					<b>DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA</b>				
Revision No.	Description	Date	By	Approved By	SCALE	AS SHOWN	APPROVED BY:	SHEET NO.	
					DESIGNED BY	ABH		CD-1	
					DRAWN BY	MMT		OF 12 SHEETS	
					CHECKED BY	JE		PW1417	
					RECORD DWGS.			PROJECT NO.	

5279.6C





Approx City limit  
Line location

Approx. location of right-of-  
way line.

1004  
24.14

B STREET

ARCH AIRPORT ROAD

1003  
25.75

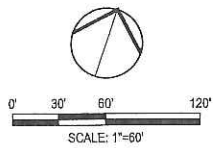
NOTES:

1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.  
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POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1002	2152985.87	6347023.15	24.79	MONUMENT SET PK NAIL CONTROL POINT
1003	2152567.23	6347215.49	25.75	MONUMENT SET PK NAIL CONTROL POINT
1004	2153577.69	6346828.16	24.14	MONUMENT SET CHISELED CROSS



DATE SIGNED: 02/02/17

Revision No.	Description	Date	By	Appvd. By

**SIEGFRIED**  
3244 Brookside Road, Suite 100 Stockton, California 95219  
209-949-2021 www.siegfriedeng.com Fax: 209-942-0214

CIVIL ENGINEERING  
STRUCTURAL ENGINEERING  
LAND SURVEYING  
LANDSCAPE ARCHITECTURE

ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL  
AND SAFETY LIGHTING INSTALLATION

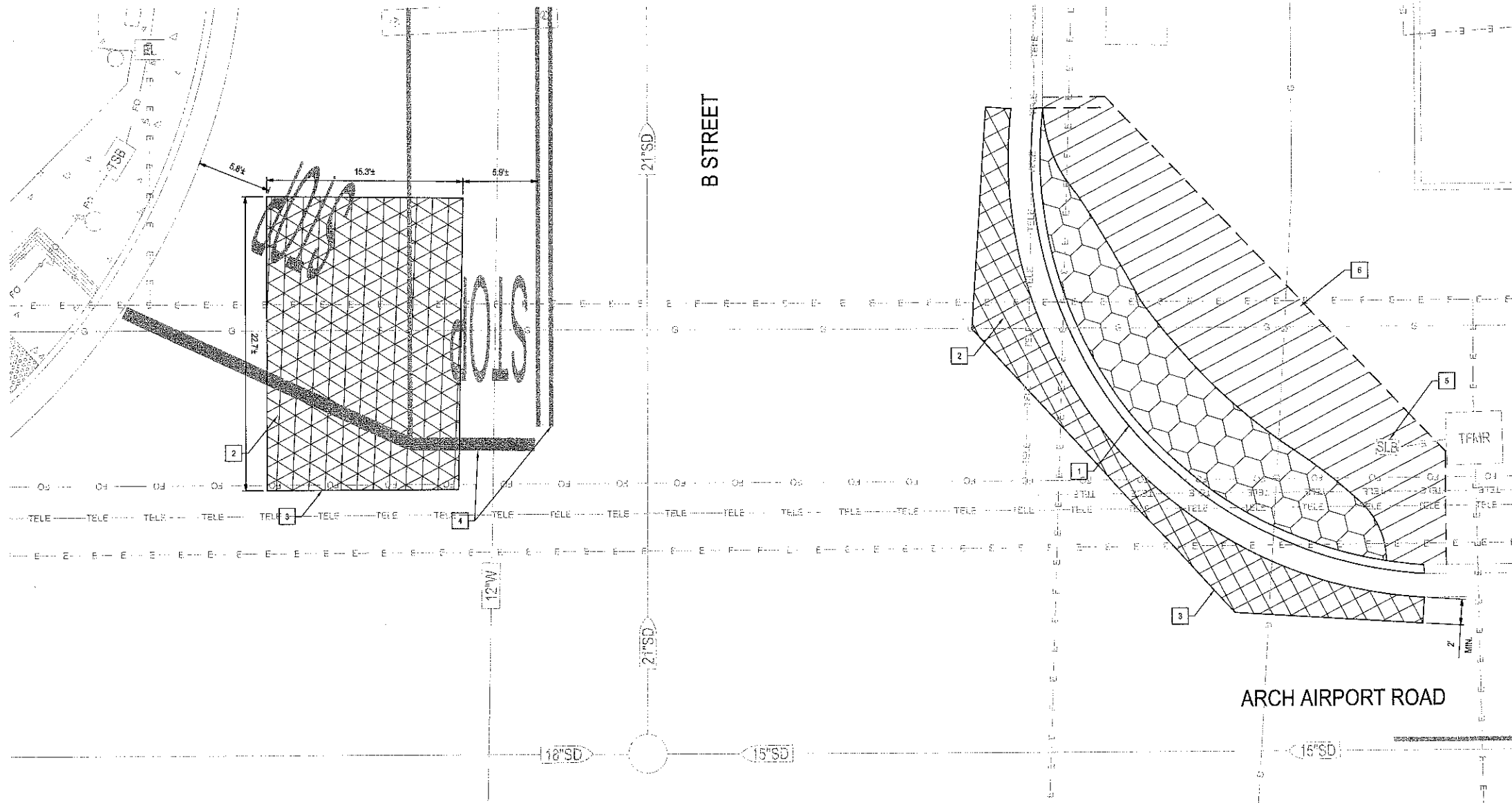
**CONTROL PLAN**

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

SCALE	AS SHOWN	APPROVED BY: 3/12/17 (DATE)	SHEET NO. C1.0 OF 12 SHEETS
DESIGNED BY	AKM		PW1417 PROJECT NO.
DRAWN BY	MLP		
CHECKED BY	AKM		
RECORD DWGS.		CITY ENGINEER STOCKTON, CALIFORNIA	

5279.7C





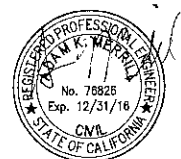
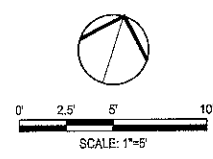
- LEGEND:**
- EXISTING CONCRETE TO REMAIN
  - REMOVE AND DISPOSE OF EXISTING DECORATIVE CONCRETE (ROCK WITH CEMENT BONDING) TO ACCOMMODATE DEPTH OF NEW IMPROVEMENTS
  - REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT TO ACCOMMODATE DEPTH OF NEW IMPROVEMENTS
  - REMOVE AND DISPOSE OF EXISTING TURF AND SUBGRADE TO ACCOMMODATE DEPTH OF NEW IMPROVEMENTS
  - REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT TO ACCOMMODATE DEPTH OF NEW HEAVY DUTY ASPHALT IMPROVEMENTS

- DEMOLITION NOTES:**
- ALL ENTITIES SHOWN AS BOLD ARE TO BE DEMOLISHED, UNLESS OTHERWISE NOTED.
  - ALL UTILITIES BOXES WITHIN THE SIDEWALK AREAS SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
  - IF ANY QUESTIONS ARISE AS TO WHETHER SOMETHING SHOULD BE REMOVED, CONTRACTOR SHALL CONTACT THE CITY OF STOCKTON RESIDENT ENGINEER OR INSPECTOR IMMEDIATELY.
  - REMOVAL OF EXISTING CONCRETE SHALL BE PERFORMED AT THE NEAREST RELIEF JOINT, AT EACH END OF THE PROPOSED WORK. REMOVAL DEPTH SHALL ACCOMMODATE DEPTH OF NEW SIDEWALK AND AGGREGATE BASE.
  - ALL EXISTING SURVEY MONUMENTS THAT ARE DISTURBED SHALL BE RE-ESTABLISHED AND RE-RECORDED AS NECESSARY.
  - SOUTHWEST CORNER TO BE CLEANED, CLEARED, AND GRUBBED PRIOR TO COMMENCING SIGNAL WORK.

- KEY NOTES:**
- REMOVE EXISTING CONCRETE CURB AND GUTTER.
  - REMOVE EXISTING AC PAVEMENT.
  - SAWOUT AC PAVEMENT.
  - REMOVE STRIPING PER SS-1.
  - PROTECT EXISTING STREET LIGHT BOX IN PLACE AND ADJUST TO FINISHED GRADE.
  - REPAIR AND RELOCATE EXISTING IRRIGATION TO ACCOMMODATE NEW CONCRETE AREA.

**NOTES:**

- ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
- ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



DATE SIGNED: 02/02/17

Revision No.	Description	Date	By	Appr. By

**SIEGFRIED**

3244 Brookside Road, Suite 100 Stockton, California 95219  
209-948-2021 www.siegfriedeng.com Fax: 209-942-0214

CIVIL ENGINEERING  
STRUCTURAL ENGINEERING  
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LANDSCAPE ARCHITECTURE

ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION

**DEMOLITION PLAN**

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN  
DESIGNED BY: AKM  
DRAWN BY: MJP  
CHECKED BY: AKM  
RECORD DWGS.

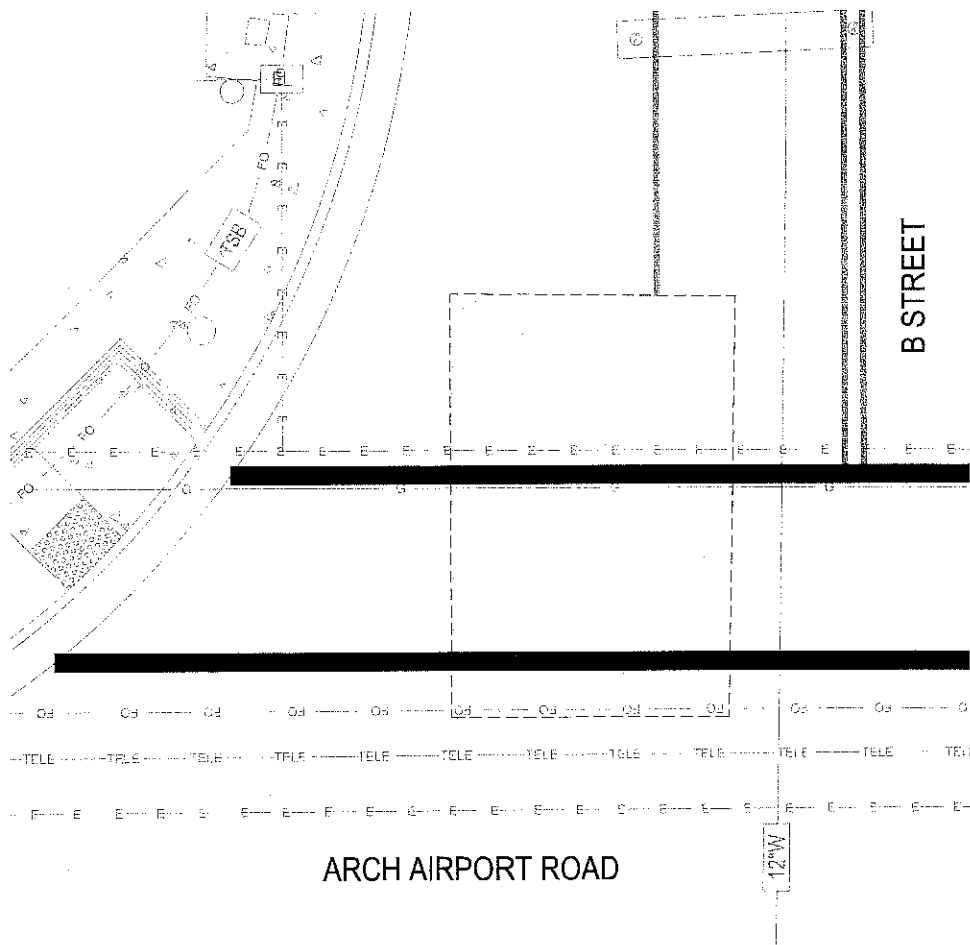
APPROVED BY: [Signature]  
DATE: 02/02/17  
CITY ENGINEER  
STOCKTON, CALIFORNIA

SHEET NO. C2.0  
OF 12 SHEETS  
PW1417  
PROJECT NO.

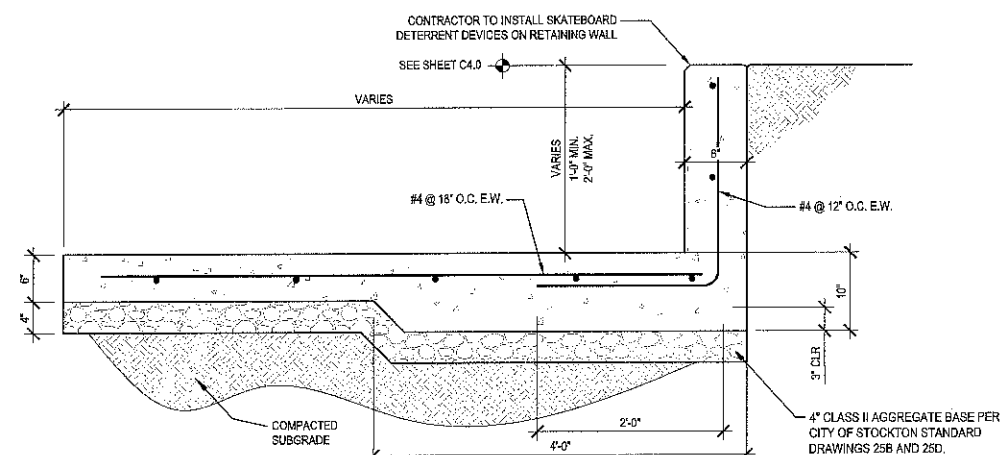
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1 NW INTERSECTION PAVEMENT REPAIR AREA  
1" = 5'



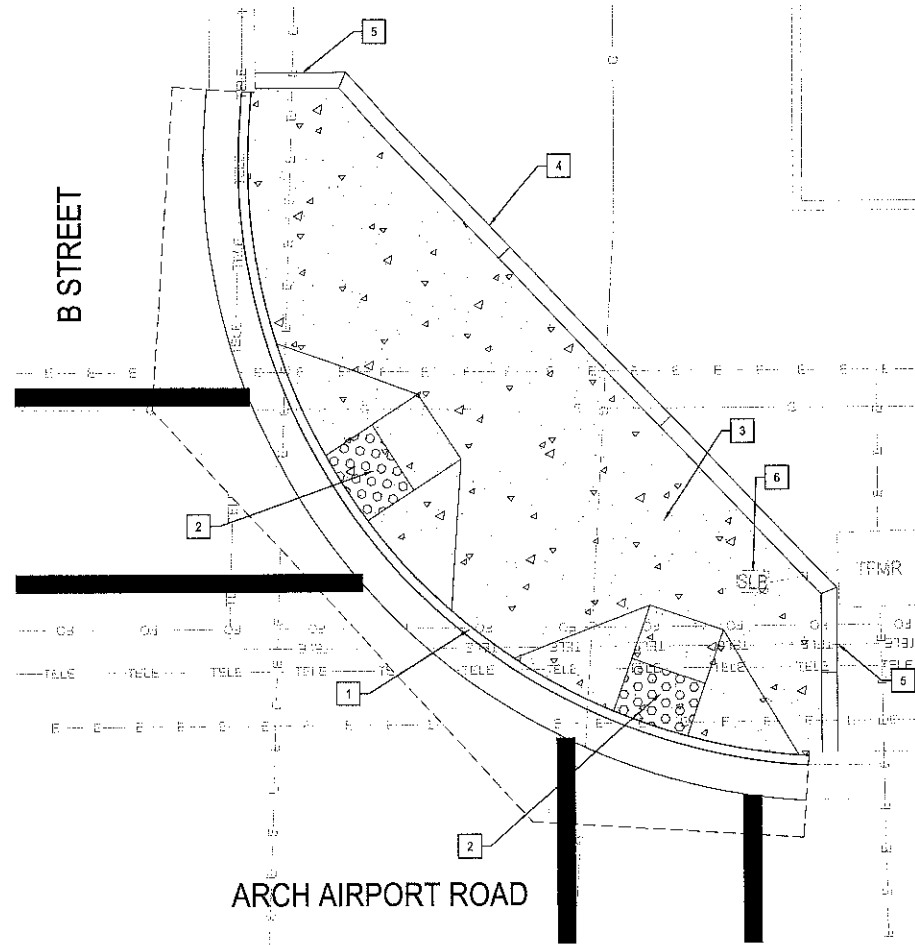
3 2' MAX RETAINING CURB  
NTS

NOTES:

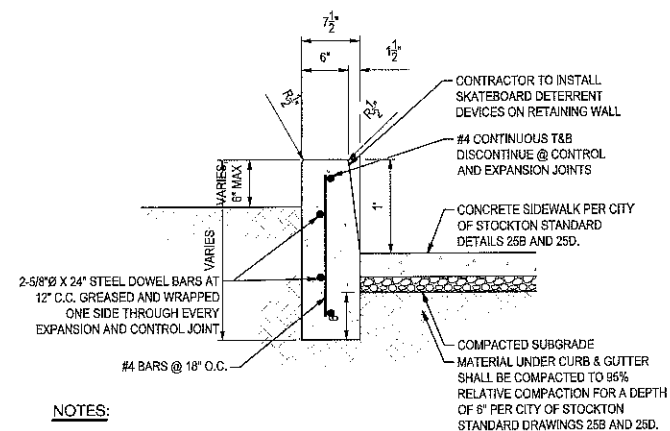
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2 NE INTERSECTION RAMP AREA  
1" = 5'



NOTES:

- PROVIDE EXPANSION JOINTS @ 100'-0" O.C. MAX SPACING.
- PROVIDE CONTROL JOINTS @ 40'-0" O.C. MAX SPACING.

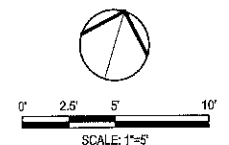
4 12" MAX RETAINING CURB  
NTS

PAVING PLAN KEY NOTES:

- INSTALL 6" VERTICAL CURB AND GUTTER PER CITY OF STOCKTON STANDARD DRAWING NO. 25B.
- INSTALL CURB RAMP PER CITY OF STOCKTON STANDARD DRAWING NO. 31.
- INSTALL SIDEWALK PER CITY OF STOCKTON STANDARD DRAWING NO. 25B.
- RETAINING CURB PER DETAIL 3 THIS SHEET.
- INSTALL 12" MAX CURB PER DETAIL 4 THIS SHEET.
- ADJUST EXISTING STREET LIGHT BOX TO FINISHED GRADE.

LEGEND

- PROPOSED CONCRETE**  
6.0" (2,500 PSI @ 28 DAYS) NORMAL WEIGHT CONCRETE OVER 4.0" CLASS II AB OVER 6.0" COMPACTED SUBGRADE AT 95% RELATIVE COMPACTION (SEE COS STD DETAIL NO. 25D FOR SCORING AND JOINT DETAILS)
- AC DEEP LIFT**  
16.0" ASPHALT CONCRETE DEEP LIFT OVER 6.0" COMPACTED SUBGRADE AT 95% RELATIVE COMPACTION
- TRUNCATED DOMES**  
TRUNCATED DOMES PER CITY OF STOCKTON STANDARDS (3" MIN DEPTH)
- HEAVY DUTY PAVEMENT (R=5, T=10)**  
6.5" AC OVER 23.0" CLASS II AB OVER WITH TENSAR TRIAX 5 GEOGRID OVER 6.0" SUBGRADE AT 95% R.C. OR MATCH EXISTING PAVEMENT STRUCTURAL SECTION, WHICHEVER IS GREATER



DATE SIGNED: 02/02/17

Revision No.	Description	Date	By	Appr. By

<p><b>SIEGFRIED</b> 3244 Brookside Road, Suite 100 Stockton, California 95210 208-843-2021 www.siegfriedeng.com Fax: 209-942-0214</p>		<p>CIVIL ENGINEERING STRUCTURAL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE</p>
<p>ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION</p>		
<p>PAVING PLAN</p>		
<p>DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA</p>		
<p>SCALE AS SHOWN</p>	<p>APPROVED BY: <i>[Signature]</i> DATE: 02/02/17</p>	<p>SHEET NO. C3.0 OF 12 SHEETS PROJECT NO. PW1417</p>
<p>DESIGNED BY AKM</p>	<p>DRAWN BY MLP</p>	<p>CHECKED BY AKM</p>
<p>RECORD DWGS.</p>	<p>CITY ENGINEER STOCKTON, CALIFORNIA</p>	<p>PROJECT NO.</p>

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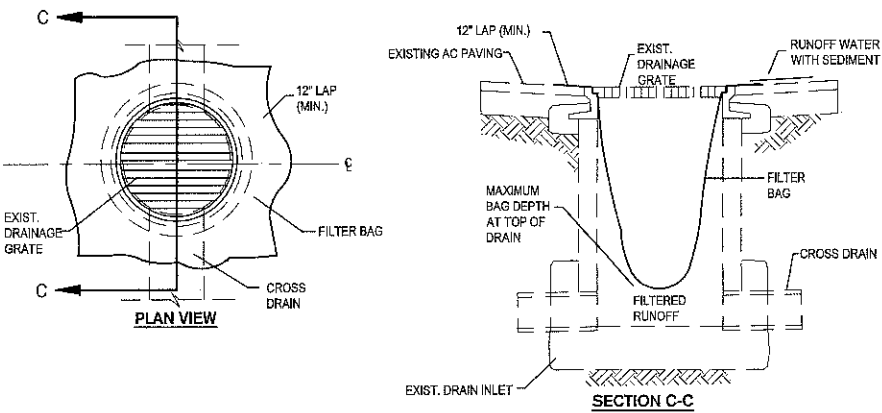




THE FOLLOWING DETAILS AND NOTES SHALL BE USED THROUGHOUT THE PROJECT IN ORDER TO COMPLY WITH STATE AND LOCAL CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP'S) AND THE STATE GENERAL PERMIT. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAINING A STATE DISCHARGE IDENTIFICATION NUMBER (WDID), AS WELL AS MAINTAINING THE SWPPP, AS NECESSARY.

EROSION CONTROL GENERAL NOTES

1. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM PAVEMENT OF ROAD.
2. ALTERNATE INLET PROTECTION SHALL BE USED ON ROADS OPEN TO THE PUBLIC IF ANY HAZARDOUS MATERIALS OR WASTES WHICH HAVE BEEN TREATED, STORED, DISPOSED, SPILLED, OR LEAKED IN SIGNIFICANT QUANTITIES ONTO THE CONSTRUCTION SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THEM FROM THE SITE AND DISPOSE OF PROPERLY.
3. THE CONTRACTOR SHALL KEEP MAINTENANCE, INSPECTION, AND REPAIR PROCEDURES TO ENSURE THAT ALL GRADED SURFACES, WALLS, BERMS, DRAINAGE STRUCTURES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER CONTROLS ARE MAINTAINED IN GOOD AND EFFECTIVE CONDITION AND ARE PROMPTLY REPAIRED OR RESTORED WHEN NECESSARY. ANY DEWATERING WATER SHALL NOT BE DISCHARGED DIRECTLY INTO THE STORM WATER SYSTEM, AND SHALL NOT BE DISCHARGED INTO THE SEWER SYSTEM.
4. PAVEMENT CLEANING- FLUSHING OF STREETS/ PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEEPED.
5. CONCRETE TRUCKS SHALL BE WASHED AT AN OFFSITE LOCATION OR A PRE-MANUFACTURED RENTABLE UNIT SHALL BE UTILIZED ONSITE.

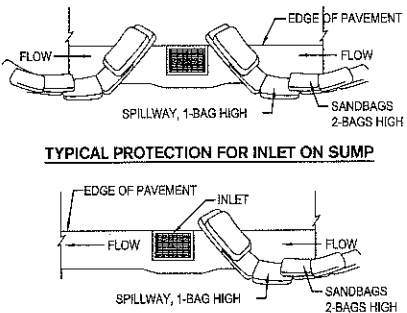


TEMPORARY GRAVEL BAG FILTER AT DROP INLET

① DROP INLET SEDIMENT PROTECTION  
NTS

TYPICAL APPLICATION:

- STORM INLET FILTER BAG DEVICES SHALL BE PROVIDED, INSTALLED, AND MAINTAINED FOR ALL INLETS THAT COULD POTENTIALLY RECEIVE SEDIMENT LADEN RUNOFF OR CONSTRUCTION WASH WATER.

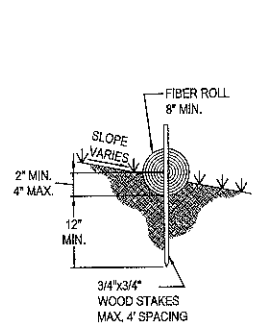


- NOTES:
1. INTENDED FOR SHORT-TERM USE.
  2. USE TO INHIBIT NON-STORM WATER FLOW.
  3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
  4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
  5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

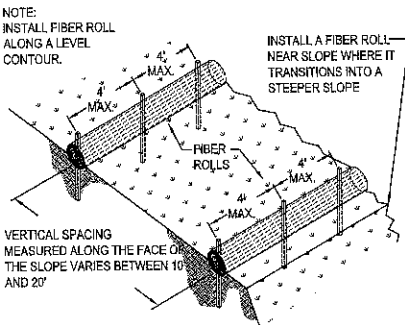
② DI PROTECTION-TYPE 3  
NTS

TYPICAL APPLICATION:

- THIS METHOD CAN BE USED AS AN ALTERNATE TO DETAIL 1



ENTRENCHMENT DETAIL



TYPICAL FIBER ROLL INSTALLATION

③ FIBER ROLLS  
NTS

TYPICAL APPLICATION:

- FIBER ROLLS SHALL BE INSTALLED AND MAINTAINED IN LOCATIONS SUCH AS THE BACK OF WALK IN ORDER TO PREVENT SEDIMENT FROM WASHING ONTO CONCRETE OR ASPHALT.

NOTES:

1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
2. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



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DATE SIGNED: 02/02/17

Revision No.	Description	Date	By	App'd By



ARCH-AIRPORT ROAD AND B STREET TRAFFIC SIGNAL AND SAFETY LIGHTING INSTALLATION

EROSION CONTROL PLAN

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

SCALE	AS SHOWN	APPROVED BY	DATE	SHEET NO.
DESIGNED BY	AKM			C5.0
DRAWN BY	MLP			OF 12 SHEETS
CHECKED BY	AKM			PW1417
RECORD DWGS.				PROJECT NO.

5279.11C





Traffic Sign Specialties Inc.  
9149 Union Park Way.  
Elk Grove, CA. 95624  
PH: 916-714-5707  
FAX: 916-714-5733  
slavikr@frontiernet.net



# TRAFFIC CONTROL PLAN

ARCH-AIRPORT RD. & B STREET.  
CITY OF STOCKTON, CA.

## LOCATION MAP



## CONTRACTOR

COMPANY: Pacific Excavation, Inc.

CONTACT: Peyton G.

PH: 916-686-2800







NOTE# 1  
THIS PLAN SUPPLEMENTED WITH CA, MUTCD 2016

NOTE# 2  
CAMUTCD IS MIN STANDARD  
THE LOCATION OF THE SIGNS AS SHOWN ON THE PLAN  
ARE GUIDELINES AND ACTUAL LOCATION WILL DEPEND UPON  
ALIGNMENT, GRADE, LOCATION OF THE STREET INTERSECTIONS  
USE 85 PERCENTILE OF POSTED SPEED LIMIT.

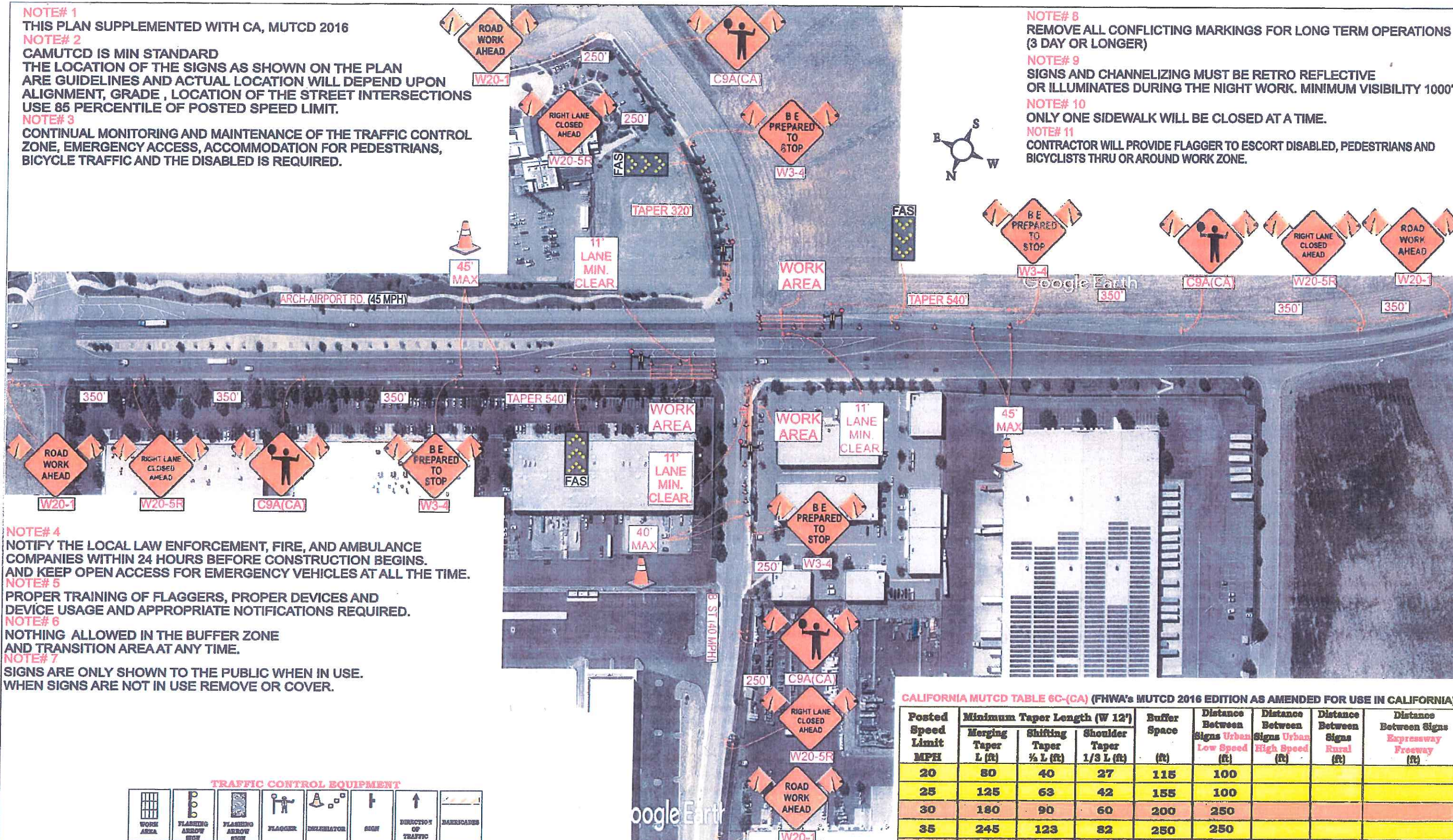
NOTE# 3  
CONTINUAL MONITORING AND MAINTENANCE OF THE TRAFFIC CONTROL  
ZONE, EMERGENCY ACCESS, ACCOMMODATION FOR PEDESTRIANS,  
BICYCLE TRAFFIC AND THE DISABLED IS REQUIRED.

NOTE# 8  
REMOVE ALL CONFLICTING MARKINGS FOR LONG TERM OPERATIONS  
(3 DAY OR LONGER)

NOTE# 9  
SIGNS AND CHANNELIZING MUST BE RETRO REFLECTIVE  
OR ILLUMINATES DURING THE NIGHT WORK. MINIMUM VISIBILITY 1000'

NOTE# 10  
ONLY ONE SIDEWALK WILL BE CLOSED AT A TIME.

NOTE# 11  
CONTRACTOR WILL PROVIDE FLAGGER TO ESCORT DISABLED, PEDESTRIANS AND  
BICYCLISTS THRU OR AROUND WORK ZONE.



NOTE# 4  
NOTIFY THE LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE  
COMPANIES WITHIN 24 HOURS BEFORE CONSTRUCTION BEGINS.  
AND KEEP OPEN ACCESS FOR EMERGENCY VEHICLES AT ALL THE TIME.

NOTE# 5  
PROPER TRAINING OF FLAGGERS, PROPER DEVICES AND  
DEVICE USAGE AND APPROPRIATE NOTIFICATIONS REQUIRED.

NOTE# 6  
NOTHING ALLOWED IN THE BUFFER ZONE  
AND TRANSITION AREA AT ANY TIME.

NOTE# 7  
SIGNS ARE ONLY SHOWN TO THE PUBLIC WHEN IN USE.  
WHEN SIGNS ARE NOT IN USE REMOVE OR COVER.

#### TRAFFIC CONTROL EQUIPMENT



**Pacific  
Excavation**

**TSS Inc.**  
**Slavik Redko**  
TRAFFIC CONTROL SPECIALIST  
Ph: 916-714-5707  
Fax: 916-714-5733

Monday - Friday  
WORK TIME: 9:00am - 5:00pm  
Lane Closure: 9:00am - 3:30pm  
JOB #:  
DWG: TYPICAL RIGHT LANE CLOSURE WITH FLAGGER  
DRAWING NOT TO SCALE

**TRAFFIC CONTROL PLAN # 1**  
Agency: City of Stockton, CA.  
Contractor: Pacific Excavation, Inc.  
Ordered By: Peyton G.  
Location: Arch-Airport Rd. & B Street  
City of Stockton, Ca.  
Telephone: 916-686-2800

CALIFORNIA MUTCD TABLE 6C-(CA) (FHWA's MUTCD 2016 EDITION AS AMENDED FOR USE IN CALIFORNIA)

Posted Speed Limit MPH	Minimum Taper Length (W 12')			Buffer Space (ft)	Distance Between Signs Urban Low Speed (ft)	Distance Between Signs Urban High Speed (ft)	Distance Between Signs Rural (ft)	Distance Between Signs Expressway Freeway (ft)
	Merging Taper L (ft)	Shifting Taper 1/2 L (ft)	Shoulder Taper 1/3 L (ft)					
20	80	40	27	115	100			
25	125	63	42	155	100			
30	180	90	60	200	250			
35	245	123	82	250	250			
40	320	160	107	305	250			
45	540	270	180	360		350	500	
50	600	300	200	425		350	500	A B C
55	660	330	220	495		350	500	1000/1500/2640
60	720	360	240	570				1000/1500/2640
65	780	390	260	645				1000/1500/2640







NOTE# 1  
THIS PLAN SUPPLEMENTED WITH CA, MUTCD 2016

NOTE# 2  
CAMUTCD IS MIN STANDARD  
THE LOCATION OF THE SIGNS AS SHOWN ON THE PLAN  
ARE GUIDELINES AND ACTUAL LOCATION WILL DEPEND UPON  
ALIGNMENT, GRADE, LOCATION OF THE STREET INTERSECTIONS  
USE 85 PERCENTILE OF POSTED SPEED LIMIT.

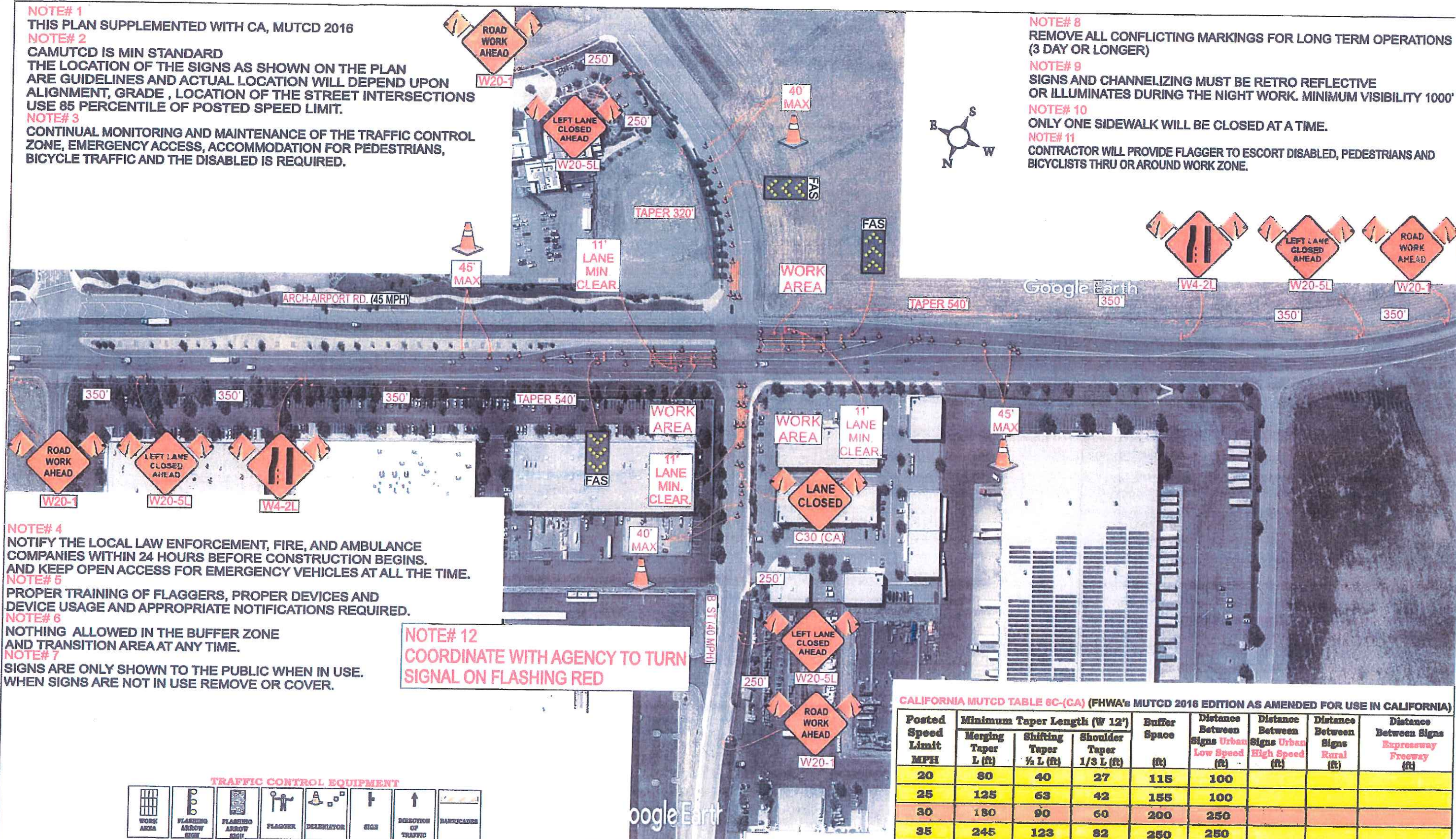
NOTE# 3  
CONTINUAL MONITORING AND MAINTENANCE OF THE TRAFFIC CONTROL  
ZONE, EMERGENCY ACCESS, ACCOMMODATION FOR PEDESTRIANS,  
BICYCLE TRAFFIC AND THE DISABLED IS REQUIRED.

NOTE# 8  
REMOVE ALL CONFLICTING MARKINGS FOR LONG TERM OPERATIONS  
(3 DAY OR LONGER)

NOTE# 9  
SIGNS AND CHANNELIZING MUST BE RETRO REFLECTIVE  
OR ILLUMINATES DURING THE NIGHT WORK. MINIMUM VISIBILITY 1000'

NOTE# 10  
ONLY ONE SIDEWALK WILL BE CLOSED AT A TIME.

NOTE# 11  
CONTRACTOR WILL PROVIDE FLAGGER TO ESCORT DISABLED, PEDESTRIANS AND  
BICYCLISTS THRU OR AROUND WORK ZONE.



NOTE# 4  
NOTIFY THE LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE  
COMPANIES WITHIN 24 HOURS BEFORE CONSTRUCTION BEGINS.  
AND KEEP OPEN ACCESS FOR EMERGENCY VEHICLES AT ALL THE TIME.

NOTE# 5  
PROPER TRAINING OF FLAGGERS, PROPER DEVICES AND  
DEVICE USAGE AND APPROPRIATE NOTIFICATIONS REQUIRED.

NOTE# 6  
NOTHING ALLOWED IN THE BUFFER ZONE  
AND TRANSITION AREA AT ANY TIME.

NOTE# 7  
SIGNS ARE ONLY SHOWN TO THE PUBLIC WHEN IN USE.  
WHEN SIGNS ARE NOT IN USE REMOVE OR COVER.

NOTE# 12  
COORDINATE WITH AGENCY TO TURN  
SIGNAL ON FLASHING RED

#### TRAFFIC CONTROL EQUIPMENT



**Pacific  
Excavation**

**TSS Inc.**  
**Slavik Redko**  
TRAFFIC CONTROL SPECIALIST  
Ph: 916-714-5707  
Fax: 916-714-5733

DATE: 2/13/18

Monday - Friday  
WORK TIME: 7:00am - 5:00pm  
Lane Closure: 9:00am - 3:30pm  
JOB #:  
DWG: TYPICAL LEFT LANE CLOSURE  
DRAWING NOT TO SCALE

TRAFFIC CONTROL PLAN # 2  
Agency: City of Stockton, CA.  
Contractor: Pacific Excavation, Inc.  
Ordered By: Peyton G.  
Location: Arch-Airport Rd. & B Street  
City of Stockton, Ca.  
Telephone: 916-686-2800

CALIFORNIA MUTCD TABLE 6C-(CA) (FHWA's MUTCD 2016 EDITION AS AMENDED FOR USE IN CALIFORNIA)

Posted Speed Limit MPH	Minimum Taper Length (W 12')			Buffer Space (ft)	Distance Between Signs Urban Low Speed (ft)	Distance Between Signs Urban High Speed (ft)	Distance Between Signs Rural (ft)	Distance Between Signs Expressway Freeway (ft)
	Merging Taper L (ft)	Shifting Taper 1/2 L (ft)	Shoulder Taper 1/3 L (ft)					
20	80	40	27	115	100			
25	125	63	42	155	100			
30	180	90	60	200	250			
35	245	123	82	250	250			
40	320	160	107	305	250			
45	540	270	180	360		350	500	
50	600	300	200	425		350	500	A B C
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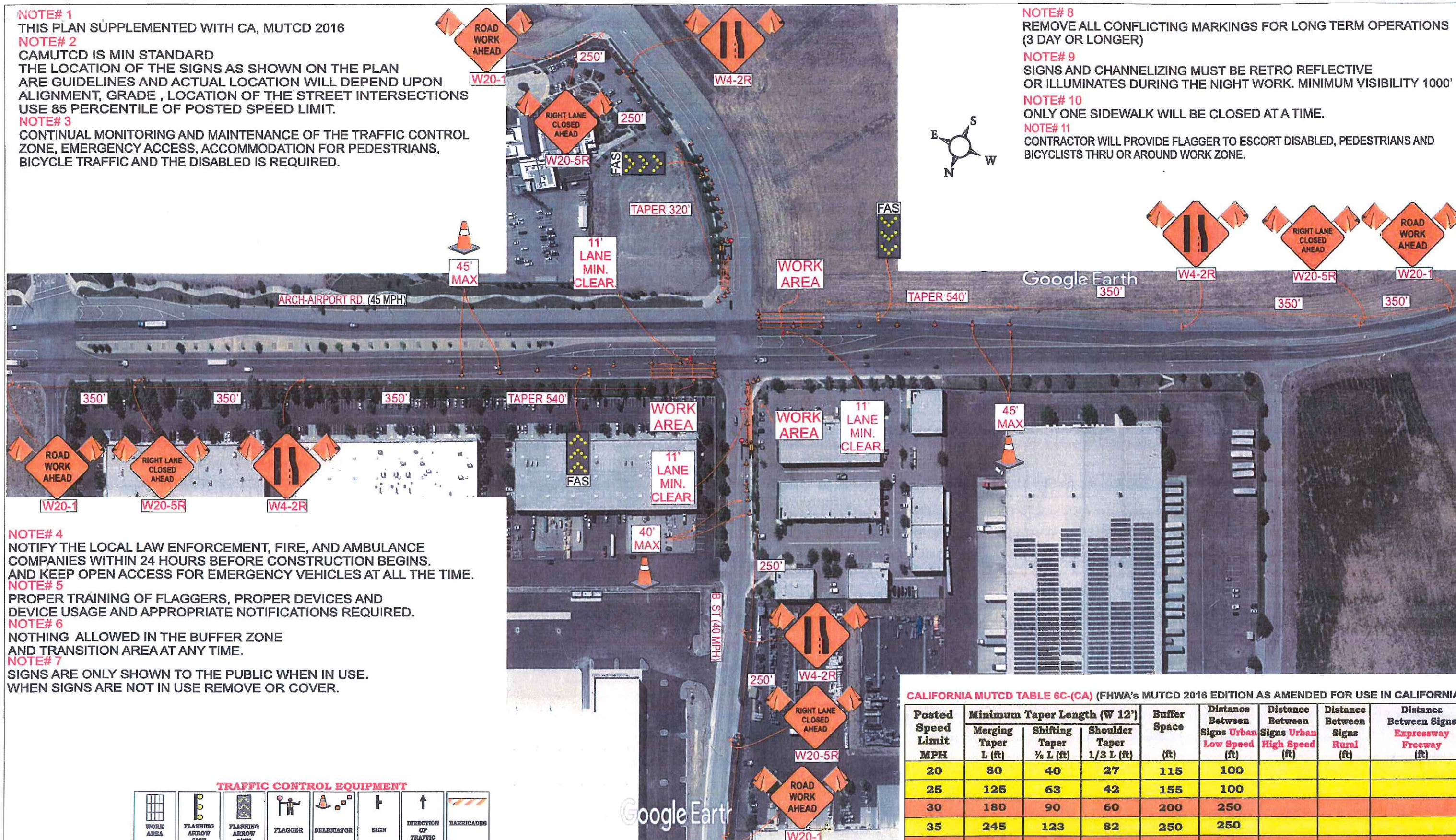
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WORK TIME: 9:00am - 5:00pm  
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JOB #:  
DWG: TYPICAL RIGHT LANE CLOSURE  
DRAWING NOT TO SCALE

**TRAFFIC CONTROL PLAN # 1**  
Agency: City of Stockton, CA.  
Contractor: Pacific Excavation, Inc.  
Ordered By: Peyton G.  
Location: Arch-Airport Rd. & B Street  
City of Stockton, Ca.  
Telephone: 916-686-2800

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