



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-1503486
Date Issued: 01/11/2016
Start Date: 01/15/2016
Exp. Date: 05/15/2016
Project No: PWP730052
Quad: ES

UE/CR/PM NO:PM:30992342

ENCROACHMENT PERMIT

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

Encroachment Type:

Trench	Bell Hole		
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Location:

E/S OF E ST., BELVEDERE AVE., SIERRA LN, BOTH/S OF WATERLOO RD.

In compliance with your request of **12/07/2015**, 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:

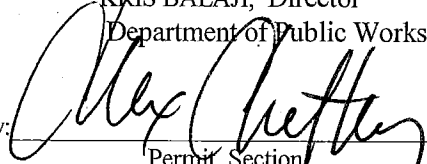
Traffic Control Per MUTCD FINAL PAVING FOR WATERLOO ROAD, SIERRA LANE AND HARDING WAY SHALL BE TO 2-5.0 TRENCH CUT POLICY STANDARDS FINAL PAVING FOR BELVEDERE AVENUE AND E STREET SHALL BE TO R-29 STANDARDS

FORMS:

SS/WW, R-29	TRENCH CUT	POLICY
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Est. Permit Fee: \$3,815.00

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 PG&E
WATERLOO ROAD PIPELINE REPLACEMENT ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, traffic control shall be maintained per approved traffic control plans.
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 at the edge of the 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 Field Engineering Division, contact them at 209-953-7421.
7. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Field Engineering Division, contact them at 209-953-7421.
8. All pavement markings destroyed or obliterated 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 decorative crosswalks at/on Waterloo Road are colored and stamped asphalt, if these crosswalks are damaged or disturbed in any manner, they shall be replaced with matching decorative crosswalks. If matching exact color and material is not possible at the disturbed area, then the entire colored and stamped asphalt crosswalk must be removed and replaced with all new matching color and material approved by the County.
10. 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)

11. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by PG&E, including any facilities that are abandoned in place. PG&E 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 PG&E's expense. (Streets and Highways Code Section 1463)
12. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
13. Length of open, unbackfilled trench shall be limited to a total maximum length of 250 linear feet during working hours.
14. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
15. 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.
16. The contractor shall use San Joaquin County 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.
17. Temporary pavement shall be provided for all trench areas within three days of pavement removal or by Friday of each week, whichever is more restrictive.
18. Final trench paving shall be placed when the length of temporarily surfaced trench exceeds 1,500 linear feet or by segment of road as determined by the County. Final trench paving will also be required to be placed when interruptions or delays of the work exceed two (2) weeks.
19. Waterloo Road, Sierra Lane and Harding Way shall receive a one (1) inch asphalt concrete overlay from the centerline (or lane line) to the edge of the travelled way. If the pavement is disturbed on both sides of the centerline (or adjacent lane), then the entire roadway (or affected lanes) shall be resurfaced. All pavement conforms shall be ground to provide a flush surface. Contractor shall grind and overlay within 10-working days of permanent trench paving. Shoulder areas shall be brought up to the finish grade as directed by the County.
20. No paving joints allowed within paved shoulder, contractor shall pave all the way to outer edge of paved shoulder.
21. 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.
22. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 2-feet wide on Sierra Lane.

23. School buses shall be passed through the work zone with minimal delays.
24. 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 or is protected by an existing obstruction such as a tree or utility pole. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
25. 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.
26. 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.
27. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

2015 NOV -5 AM 9:25

DEPT. OF PUBLIC WORKS

PLEASE PRINT:

Date 10-02-2015To: San Joaquin County
Department of Public WorksPACIFIC GAS & ELECTRIC Co.
(Applicant Name)850 Stillwater Rd.
(Mailing Address)W. Sac. CA 95605
(City, State, Zip Code)916-760-1988 Bill Tipton
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB # PWP-730052-18 REF # _____
 APN _____ CR # _____
 EXP. DATE 5-15-2016
 VALID 1-15-2016 TO 5-15-2016 DRIVEWAYS: _____
 STREET Various _____
 AREA SECTION QUAD ES _____
 TYPE Trench, Bore, Bell hole _____
 FORMS SS/WW, R29, Trench cut policy _____
 NOTES _____

Sketch (Detailed plans may be submitted)

SEE ATTACHED DRAWINGS 1-11PM # 30992342

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the _____ side of Belvidere & Francis approximately _____ feet/mile of _____, by performing the following work (description of work):

INSTALL 2" & 4" POLYETHYLENE GAS PIPE.Work will commence on or about MAY 15, 2016 for approximately 120 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.

Naomi Yamada for PG&E
 Signature of Applicant - Title

11/3/16
 Date



**Pacific Gas and
Electric Company**

Stockton Division
P.O. Box 930
Stockton, CA 95201

11/24/2015

San Joaquin County»
Public Works Department
1810 E. HAZELTON AVE.
STOCKTON, CA 95205

PM 30992342 – Sierra Lane / WATERLOO / HANDING

Re: Encroachment Permit Application

Pacific Gas and Electric Company (PG&E) respectfully request to perform excavation work as stated in the encroachment permit application.

It is our mutual understanding that the County moratorium was established in order to prevent asphalt concrete restoration from occurring during inclement temperatures and to make sure that County roads are not left unrestored for long durations.

The primary purpose for constructing this project during the moratorium is the pipe at this location is bare steel (no protective coating) and is unprotectable via cathodic protection methods so there is no way to mitigate corrosion. The existing pipe is from 1918 vintage with screwed butt joints which are prone to leaks.

The proposed construction end date for this project is 03/25/2016. Restoration will take place outside the County Moratorium. We will monitor the ambient temperatures while communicating with the County inspector to determine the appropriate time to perform the restoration.

During the construction operation, PG&E crews will be onsite maintaining the temporary asphalt from our excavation assuring that all excavations and backfill meet County Standards.

If you have any additional questions or concerns please contact me.

Sincerely,

Chris Gras
Project Manager
Pacific Gas and Electric Company
209-450-5235
crgn@pge.com



**Pacific Gas and
Electric Company**

Stockton Division
P.O. Box 930
Stockton, CA 95201

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The primary purpose for constructing this project during the moratorium is the county has an asphalt concrete overlay project on these streets in the second quarter of 2016.

The proposed construction end date for this project is 03/25/2016. Restoration will take place outside the County Moratorium. We will monitor the ambient temperatures while communicating with the County inspector to determine the appropriate time to perform the restoration.

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Sincerely,

Chris Gras
Project Manager
Pacific Gas and Electric Company
209-450-5235
crgn@pge.com

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 2-5.02(B)(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

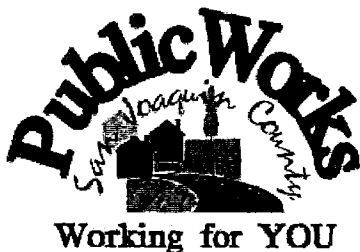
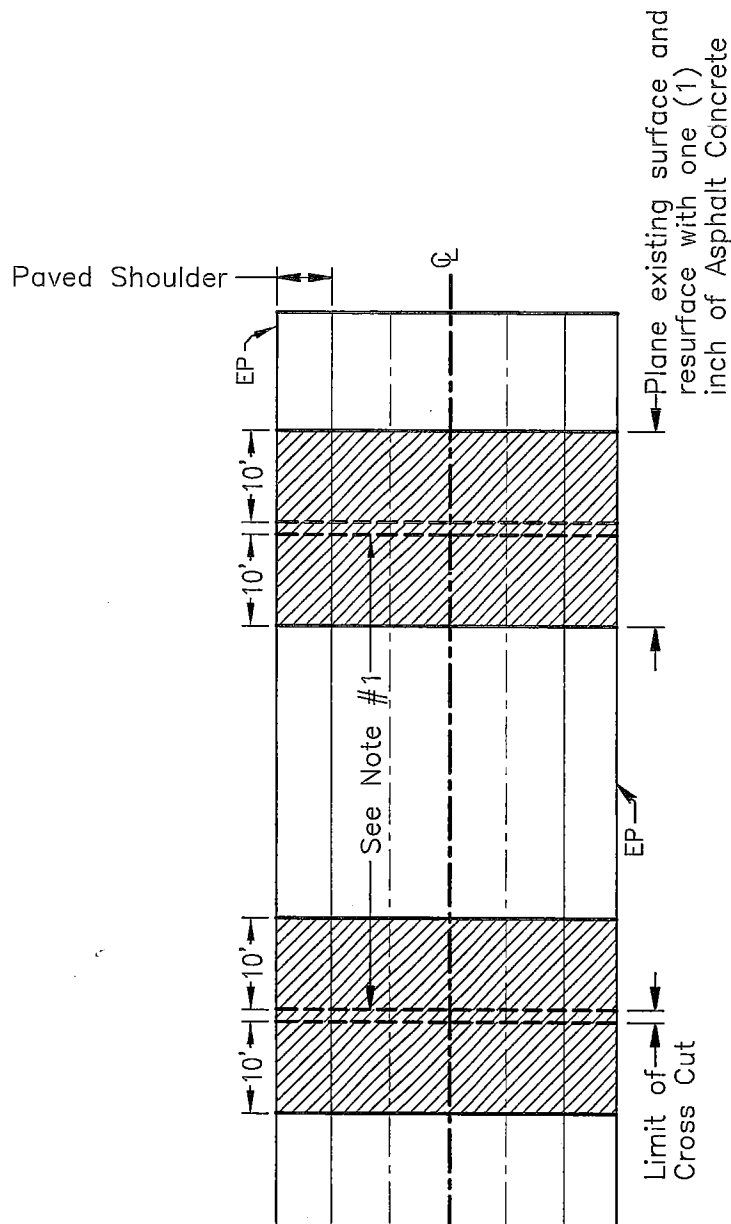
Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including 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.

NOTES:

1. If the distance between cross-cuts are less then 150' the entire area between corss-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 then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03 (B-2).



**TRENCH CUTTING POLICY
CROSS CUTTING OF
COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

Approved by:

Michael J. King

No.	Revision	Description	Date

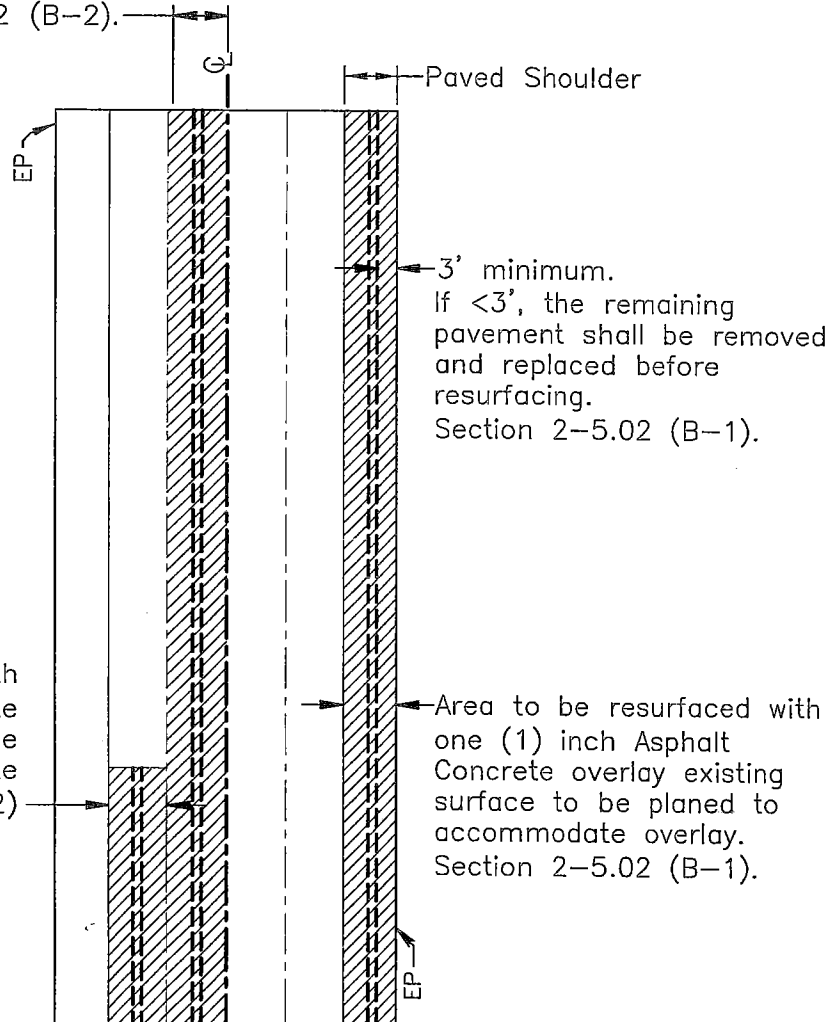
Std. Dwg. No.

R-36

NOTES:

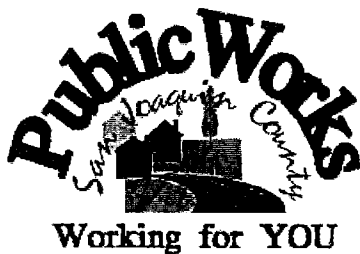
1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03 (B-1).

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



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

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



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

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

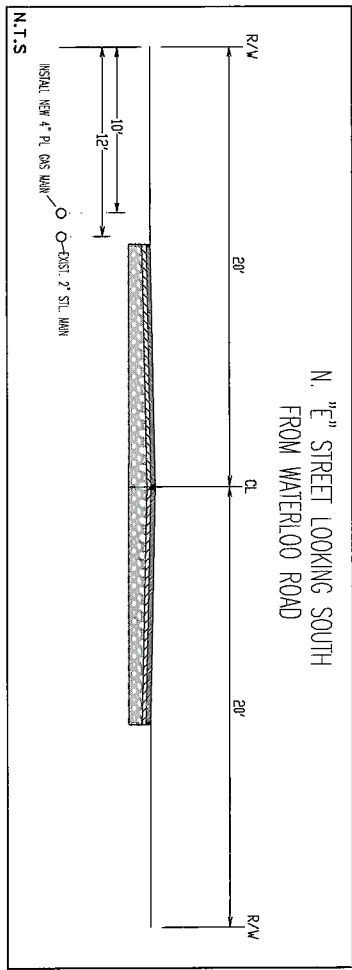
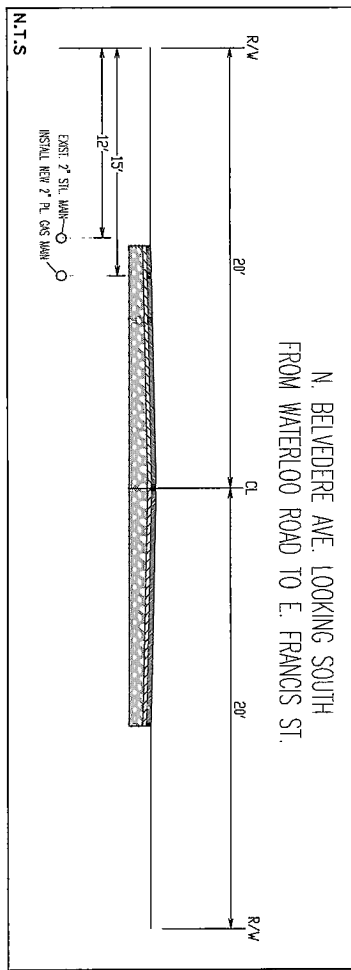
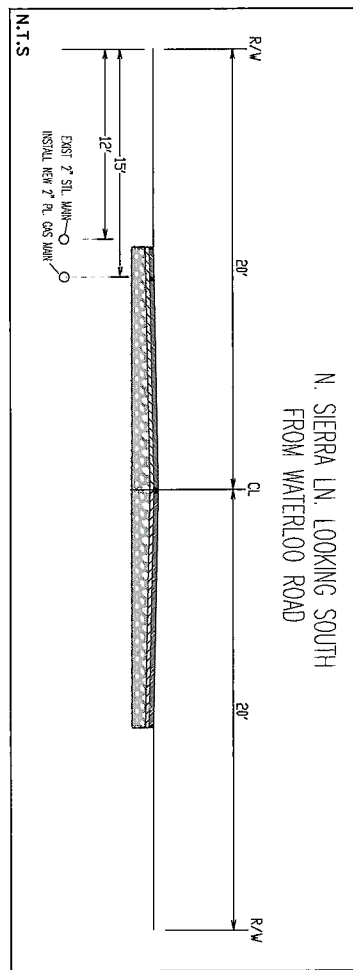
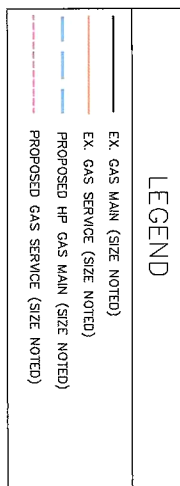
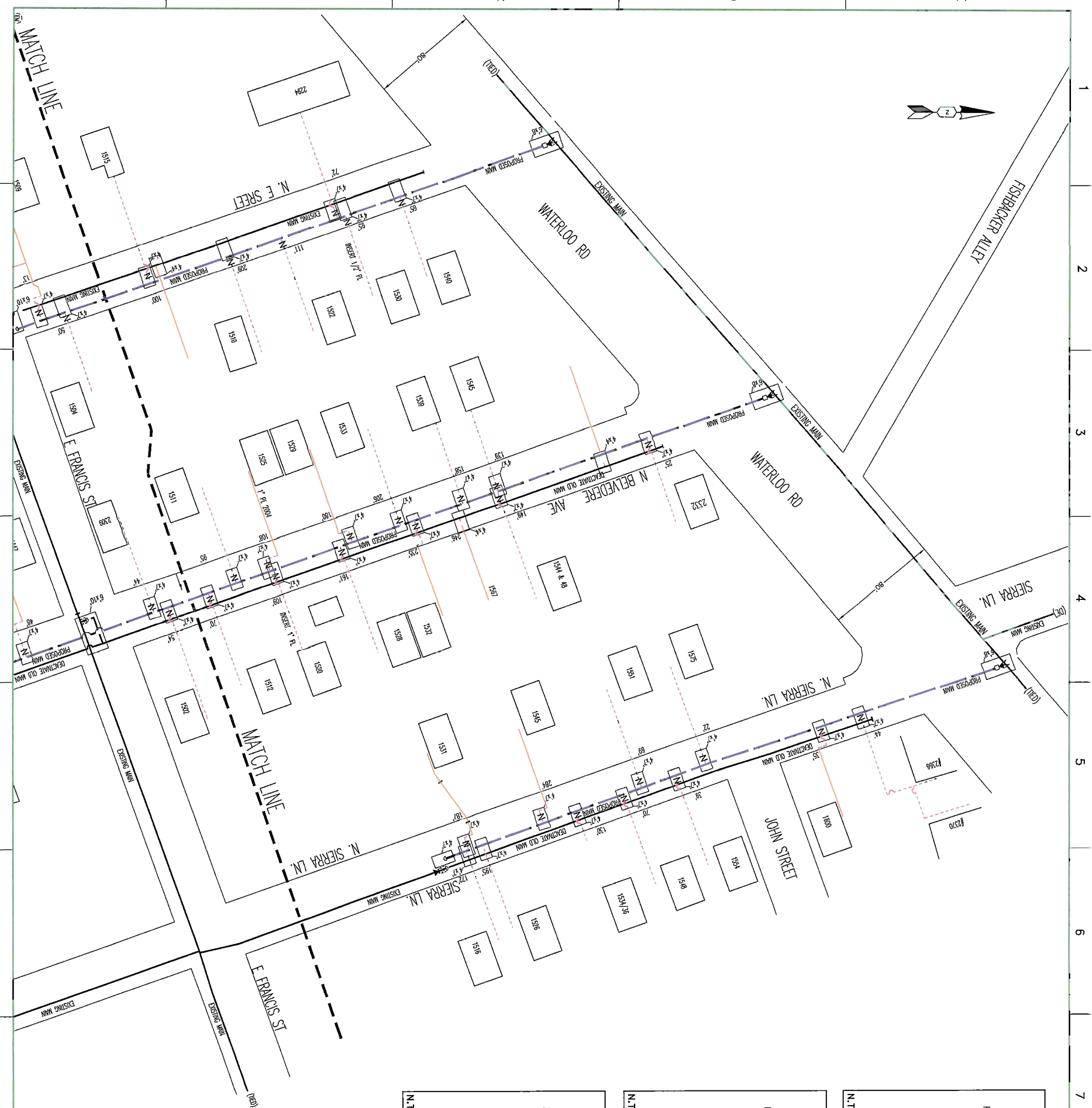
Michael Kellogg

No.	Revision	Description	Date

Date: MAY 2015

Std. Dwg. No.

R-37



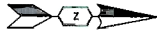
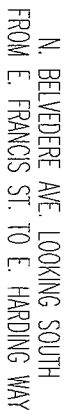
PERMIT SKETCH
BELVEDERE & FRANCIS 14A
REPLACE MAIN & SERVICES
STOCKTON, CA

[illegible]

EST: WILLIAM TIPTON	
ADE: BRUCE AVERY	
SUPV: GABRIEL GOMEZ	
REP: CHRIS GRAS	
PLNR: DAVE RYMERS	
SCALE: 1"=40'	DATE: 10-30-20

ENGINEERING AND PLANNING DEPT
850 STILLWATER ROAD
WEST SACRAMENTO, CA 95605
PHONE #: FAX #:
PACIFIC GAS AND ELECTRIC COMPANY

CO:	
SD:	
NOTIF.: 106320271	
Other:	
SHT: 1 OF 2	SHEETS
PM: 30992342	REV.



										EST: WILLIAM TIPTON										ENGINEERING AND PLANNING DEPT.										CO:									
										ADE: BRUCE AVERY																				SD:									
										SUPV: GABRIEL GOMEZ										850 STILLWATER ROAD										NOTIF.: 106320271									
										REP: CHRIS GRAS										WEST SACRAMENTO, CA 95605										Other:									
										PLNR: DAVE RYMERS																				SHT: 2 OF 2 SHEETS									
NO. DATE DESCRIPTION ORDER # DWN CHKD SUPV APVD BY										SCALE: 1"=40'										DATE: 10-30-2015										PHONE #: FAX #:									
REVISIONS																				PACIFIC GAS AND ELECTRIC COMPANY										PM: 30992342 REV.									

ENGINEERING AND PLANNING DEPT
850 STILLWATER ROAD
WEST SACRAMENTO, CA 95605

PHONE #:

FAX #:

PACIFIC GAS AND ELECTRIC COMPANY

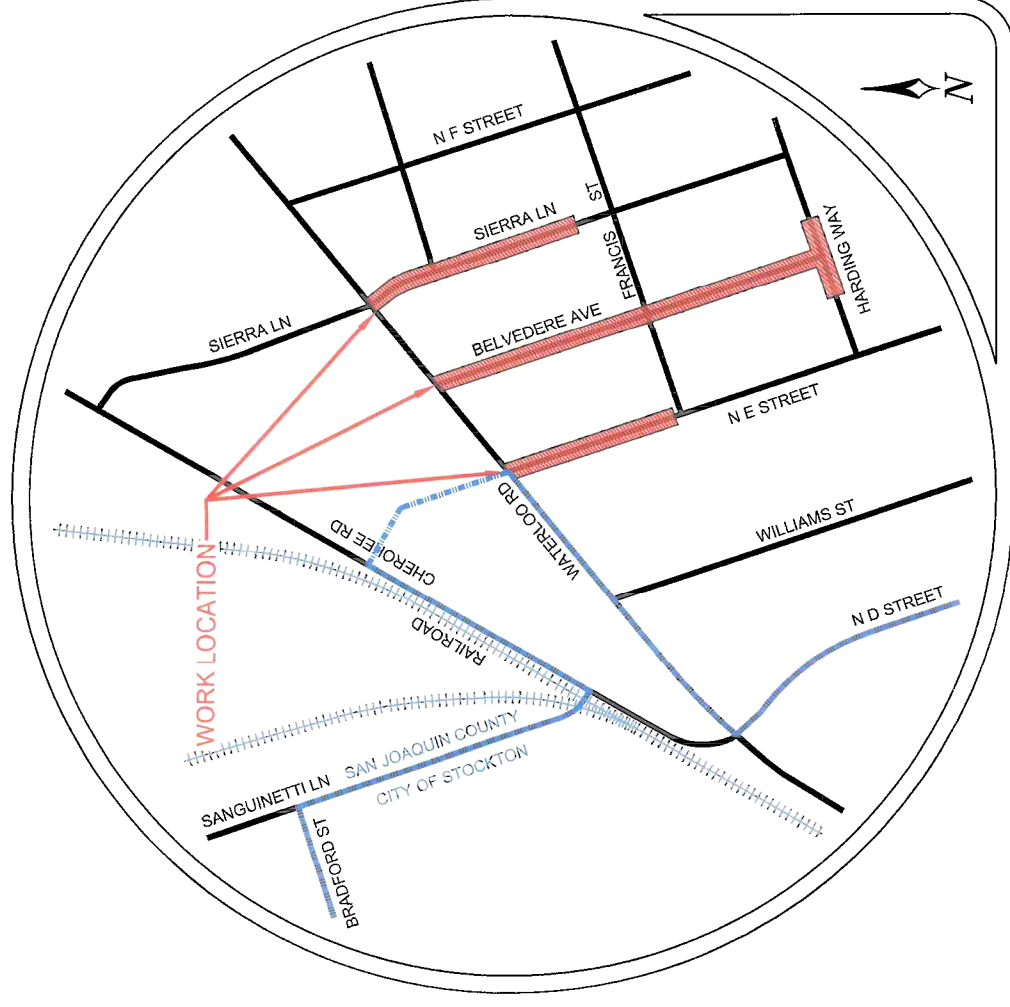
CO:	
SD:	
NOTIF.:	106320271
Other:	
SHT:	2 OF 2 SHEETS
PM:	30992342 REV.

PERMIT SKETCH
BELVEDERE & FRANCIS 14A
REPLACE MAIN & SERVICES
STOCKTON, CA

TRAFFIC CONTROL PLANS
VARIOUS LOCATIONS
STOCKTON, CALIFORNIA

SAN JOAQUIN COUNTY

PM30992342



LOCATION MAP

CONTRACTOR



**Pacific Gas and
Electric Company**

CONTACT BILL TIPTON

PHONE# (916) 760-1988

CONSULTANT



ALMENDARIZ CONSULTING, INC.
1136 SUNCAST LN STE 9
EL DORADO HILLS, CA 95762
(888) 306-1211 OFFICE
(888) 768-7022 FAX
CA C31 LIC #979806

REVISIONS				PROJECT NO
REV	DESCRIPTION	REVISED BY	DATE	
				DRAWN
				JEL
				DESIGNED
				JEL
				CHECKED
				CAA
				DATE
				OCTOBER 13, 2013

GENERAL NOTES

1. NOTHING ALLOWED IN THE BUFFER AND TRANSITION AREAS AT ALL TIMES.
2. SIGNS ARE ONLY SHOWING TO THE PUBLIC WHEN IN USE.
3. SIGNS AND CHANNELIZING DEVICES MUST BE RETROREFLECTIVE OR ILLUMINATED DURING NIGHT OPERATIONS.
4. SIGN PANEL SIZES: 36"x36" MIN. ON ROADS <50mph, 48"x48" ON ROADS ≥ 50mph.
5. SIGNS ARE SPACED PER THE CA 2014 MUTCD.
6. CHANNELIZING DEVICES SPACING AND TAPER LENGTHS ARE BASED ON THEIR RESPECTIVE CHARTS. (SEE CHARTS THIS PAGE)
7. NOTIFY THE LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE COMPANIES WITHIN 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. CONTRACTOR TO MAKE SURE ALL TRAFFIC CONTROL EQUIPMENT MEETS ALL AGENCY REQUIREMENTS.
9. REMOVE ALL CONFLICTING MARKINGS FOR LONG TERM OPERATIONS (3 DAYS OR LONGER).
10. THE LOCATION OF THE SIGNS AS SHOWN ON THE ILLUSTRATIONS ARE GUIDELINES AND ACTUAL LOCATIONS WILL DEPEND UPON ALIGNMENT, GRADE, LOCATION OF STREET INTERSECTIONS AND 85% TILE/POSTED SPEED LIMITS/OR PRIMA FACIE.
11. WHILE CROSSING INTERSECTIONS DURING MOBILE WORK, WORK MUST FOLLOW THE FLOW OF TRAFFIC AND PROCEED ON A GREEN LIGHT.
12. FULL COMPLIANCE IS REQUIRED WITH THE COUNTY AGENCY.(AFFECTS NOTES #20 THRU 22, BELOW)
13. PEDESTRIAN ACCESS MUST BE MAINTAINED AS PER THE CA 2014 MUTCD STANDARDS AND ADA REQUIREMENTS.
14. C30 SIGNS ARE PERMITTED IN BUFFER AREAS.
15. SIGN SPACING IS PROVIDED IN THE CA 2014 MUTCD EDITION, PART 6. TRAFFIC SPEEDS ARE BASED UPON RADAR MEASUREMENTS OF MOTORISTS. THE MUTCD ALLOWS FOR A "RANGE" IN SIGN PLACEMENT AND WILL BE PROVIDED BY DOT. THE 85% TILE IS USED WHEN AVAILABLE TO PROVIDE A MORE ACCURATE REPRESENTATION OF MOTORISTS SPEEDS.
16. ANY WORK WITHIN 200 FT OF A SIGNALIZED INTERSECTION WILL REQUIRE CONTACT AND COORDINATION WITH COUNTY AGENCY PRIOR TO ANY WORK.
17. QUALITY STANDARD TO MEET REQUIREMENTS OF SECTION 1A-2 OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
18. ALL TRAFFIC CONTROL DEVICES INCLUDING: SIGNS, BARRICADES, VERTICAL PANELS, DRUMS, WARNING LIGHTS, ARROWBOARDS, CHANGEABLE MESSAGE SIGNS, CONES AND TUBULAR MARKERS THAT MEET THE REQUIREMENTS OF AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). "CA 2014 MUTCD" SHALL BE USED ON THIS PROJECT/THIS WORK.
19. THE NCHRP REPORT 476 PROVIDES GUIDELINES FOR DESIGN AND OPERATION OF NIGHTTIME TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE AND CONSTRUCTION. SEE TYPICAL APPLICATIONS NWTa-1 THROUGH NWTa-7. COMPLY WITH ANSI 107-2004 FOR APPAREL. HIGHWAY CONSTRUCTION WORK LIGHTING SHALL BE PER CONSTRUCTION SAFETY ORDER 1523 (CALIFORNIA CODE OF REGULATIONS TITLE 8, DIVISION1, CHAPTER 4, SUBCHAPTER 4, ARTICLE 3, SECTION 1523 - ILLUMINATIONS).
20. SIDEWALKS AT THE CONSTRUCTION LOCATION MAY BE CLOSED WITH ADEQUATE DETOURS. SIDEWALKS MAY ONLY BE CLOSED TO THROUGH TRAFFIC AND SHALL NOT PREVENT LOCAL PEDESTRIANS ACCESS. DETOURS SHALL NOT INCREASE THE PATH OF TRAVEL BY MORE THAN 500 FT. DETOUR ROUTES SHALL BE LIMITED TO EXISTING SIDEWALKS, PRIVATE PROPERTIES (SEE BELOW REQUIREMENTS) AND CROSSINGS AT ROADWAY INTERSECTIONS. TO THE MAXIMUM EXTENT FEASIBLE, THE ALTERNATE CIRCULATION PATH SHALL BE PROVIDED ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE. WHERE IT IS FEASIBLE TO PROVIDE A SAME-SIDE ALTERNATE CIRCULATION PATH AND PEDESTRIANS WILL BE DETOURED, SECTION 6D.02 OF THE CA 2014 MUTCD SPECIFIES THAT THE ALTERNATE PATH PROVIDE A SIMILAR LEVEL OF ACCESSIBILITY TO THAT OF THE EXISTING DISRUPTED ROUTE . THIS MAY INCLUDE THE INCORPORATION OF ACCESSIBLE PEDESTRIAN SIGNALS (APS), CURB RAMPS, OR OTHER ACCESSIBILITY FEATURES.
21. PEDESTRIANS MAY BE DETOURED ONTO PRIVATE PROPERTY ONLY IF WRITTEN PERMISSION FROM THE PROPERTY OWNER IS OBTAINED ALONG WITH DOCUMENTATION INDICATING THAT THE COUNTY WOULD NOT BE LIABLE (HOLD HARMLESS) IN THE EVENT OF AN ACCIDENT.
22. DURING WORK HOURS, AT LEAST ONE WORKER SHALL BE ASSIGNED WITH THE RESPONSIBILITY TO ESCORT ELDERLY, DISABLED OR ANY OTHER PEDESTRIANS IN NEED OF ASSISTANCE THROUGH THE CONSTRUCTION SITE. A WORKER ASSIGNED WITH THIS RESPONSIBILITY MAY ALSO PARTICIPATE IN OTHER CONSTRUCTION ACTIVITIES; HOWEVER, THE ASSIGNED WORKER SHALL BE AWARE OF HIS OR HER RESPONSIBILITIES FOR PROVIDING THIS ASSISTANCE. MEASURES THAT SIMPLY CLOSE THE SIDEWALK, WITH THE EXCEPTION THAT PEDESTRIANS WILL CROSS SOMEWHERE ELSE DOES NOT ADEQUATELY SATISFY PEDESTRIAN ACCESS. PEDESTRIANS SHOULD NEVER BE DIRECTED/ EXPECTED TO CROSS A MULTI-LANE ROADWAY AT ANY LOCATION OTHER THAN AT A SIGNAL (OR ALL-WAY STOP). ACCOMMODATIONS SHOULD BE MADE ON THE SAME SIDE OF ROADWAY AS WORK.

TABLES CHART - 2014 MUTCD

Posted Speed	Taper (L) Formula	Buffer Space	Minimum Taper Lengths										Maximum *Cone Spacing					Sign Spacing [per section] [6C.04]							
			10' Offset					11' Offset					12' Offset												
			L		1/2 L		1/3 L		Shoulder		Shift		L		Merge		Shift		1/2 L		1/3 L		Shoulder		
			Merge	Shift	Merge	Shift	Merge	Shift	Merge	Shift	Merge	Shift	Merge	Shift	Merge	Shift	Merge		Shift	Merge	Shift	Merge	Shift	Merge	Shift
25		155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	50'	12'	100' - 200'										
30	$L = \frac{WS^2}{60}$	200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	60'	15'	120' - 240'										
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	70'	17'	140' - 280'										
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	80'	20'	160' - 320'										
45		360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	90'	22'	360' - 540'										
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	100'	25'	400' - 600'										
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	55'	110'	27'	440' - 660'										
60	L = WS	570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	60'	120'	30'	480' - 720'										
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	65'	130'	32'	520' - 780'										
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	70'	140'	35'	560' - 840'										

Both are based on.
1.) 85th % Tile or if not available, then use
L = Taper Length
S = Speed
W = Width (Offset from path of travel
Posted Speed Limit (PSL)

*Cones shown on the templates are illustration purposes only. Exact number of cones required shall be based on cone spacing, taper lengths, actual field conditions, etc..

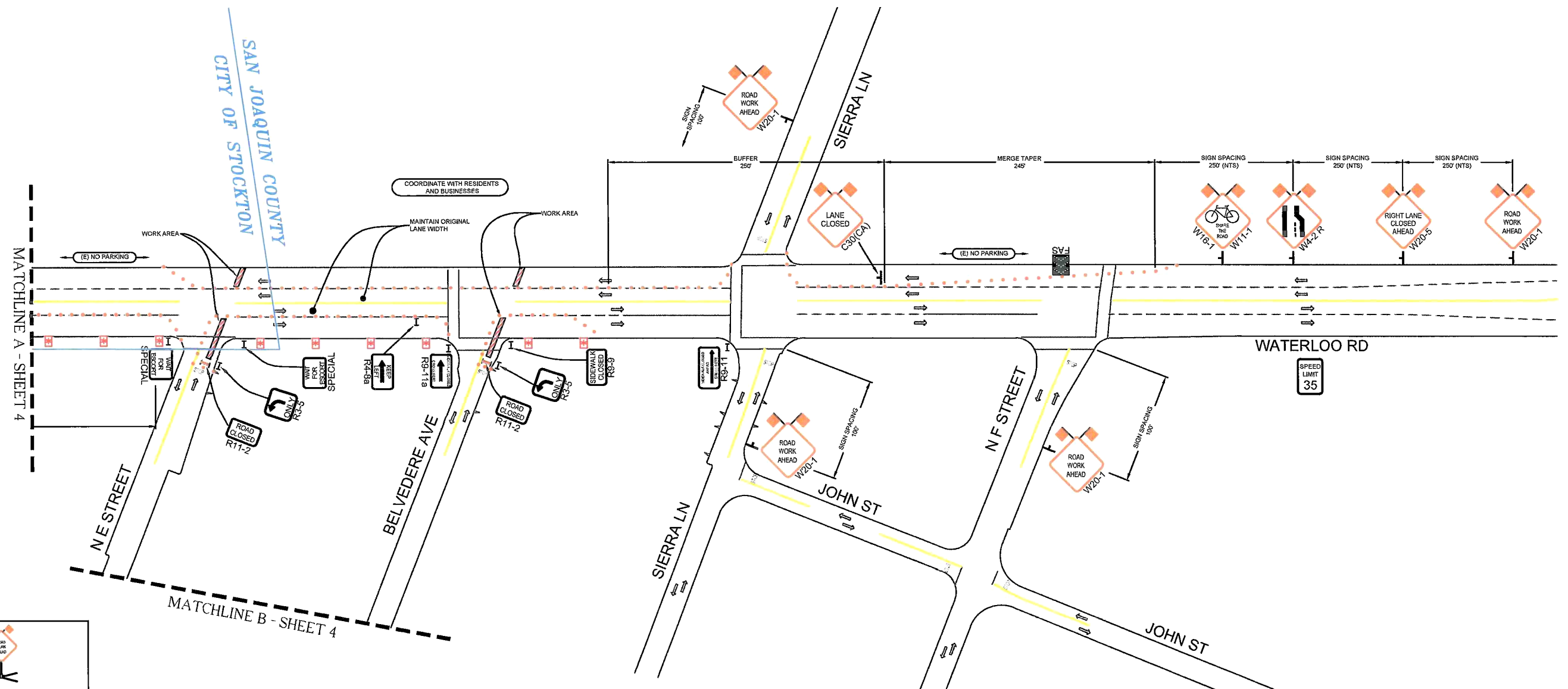
CA MUTCD 2014 TABLE 6C-1

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

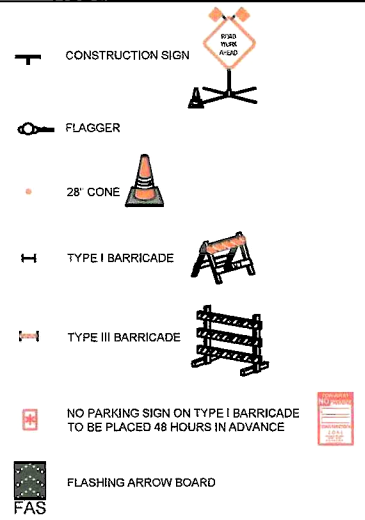
ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (LOW SPEED) - 25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (LOW SPEED) - MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET
URBAN (HIGH SPEED) - MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY / FREEWAY	1,000 FEET	1,500 FEET	2,840 FEET

REVISIONS			PROJECT NO. 151074	
REV.	DESCRIPTION	REVISED BY	DATE	
				DRAWN JEL
				DESIGNED JEL
				CHECKED CAA
				DATE
				OCTOBER 13, 2015

LANE CLOSURE



SYMBOL LEGEND



NOTES

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- CONTRACTOR SHALL ASSIGN A WORKER TO ASSIST PEDESTRIANS AROUND WORK AREA.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 4' PATH OF TRAVEL FOR PEDESTRIANS.
- MAXIMUM CHANNELIZING DEVICE SPACING FOR ALL SPEEDS ON DOWNSTREAM TAPERS IS 20'.
- W20-1 (ROAD WORK AHEAD) SIGNS SHALL BE PLACED ON ALL SIDE STREETS BETWEEN THE WORK AREA AND THE FIRST SIGN ENCOUNTERED BY TRAFFIC ON THE HWY.

[illegible]

PM30992342



ROADS < 50 MPH:
MINIMUM 36" SIGN PANELS
(48" SIGNS MAY BE USED)



ROADS \geq 50 MPH:
MINIMUM 48" SIGN PANELS



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CA C31 LIC *979806

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LOCATION	WATERLOO RD & N E STREET, STOCKTON, CA
----------	--



Pacific Gas and Electric Company

CONTACT BILL TIPTON
PHONE# (916) 760-1988

CONST. HOURS: 8:00AM-4:00PM MON-FRI

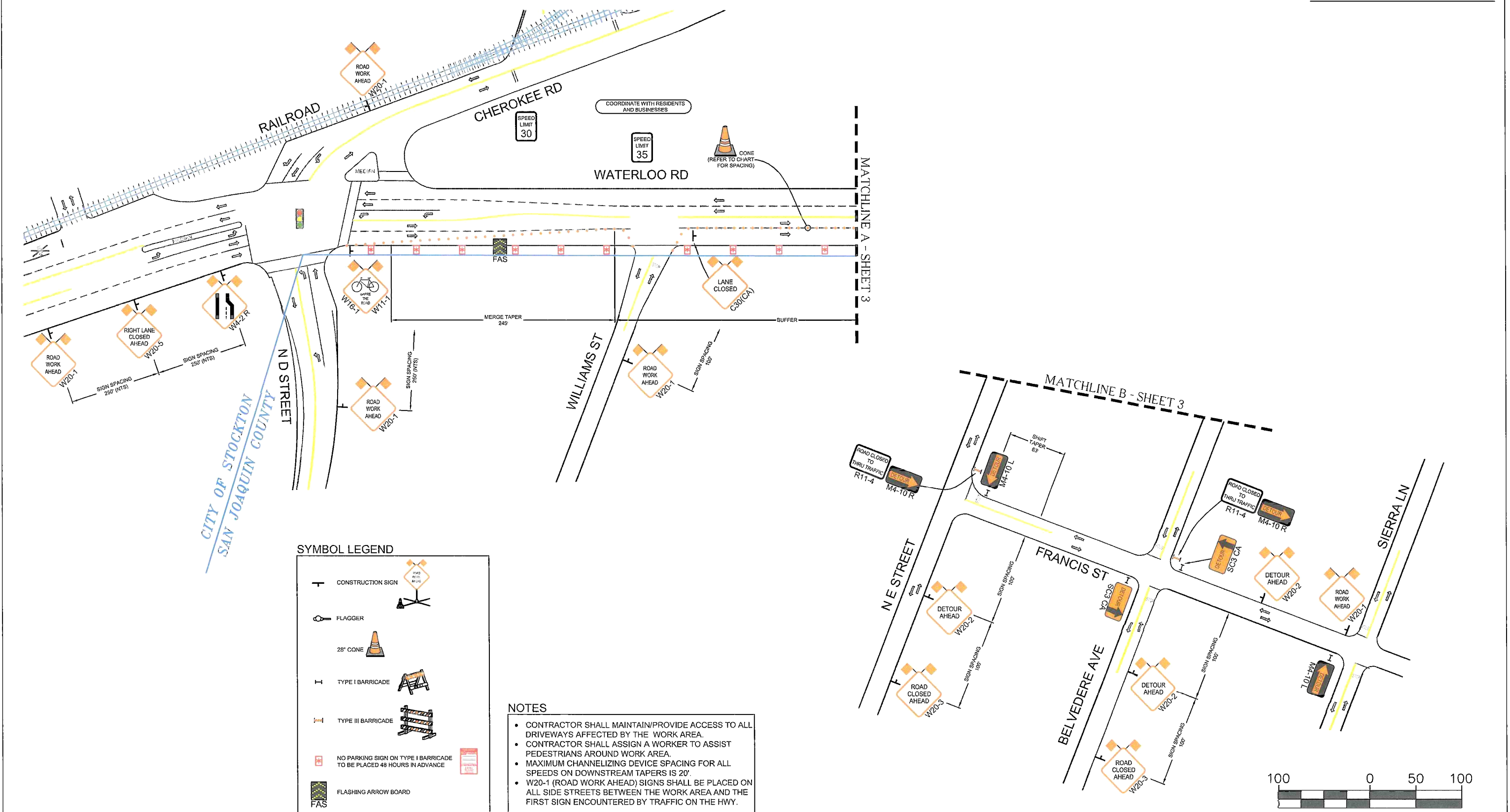
PROJECT NO.	151074
DRAWN	JEL
DESIGNED	JEL
CHECKED	CAA

DATE
OCTOBER 13, 2015




SHEET NO. 3 OF 15

LANE CLOSURE




REVISIONS			
REV	DESCRIPTION	REV DONE BY	DATE

PM30992342



ROADS < 50 MPH:
MINIMUM 36" SIGN PANELS
(48" SIGNS MAY BE USED)



ROADS ≥ 50 MPH:
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(588) 306-1211 OFFICE (888) 765-7022 FAX
CA C31 LIC #979806

LOCATION **WATERLOO RD & N E STREET, STOCKTON, CA**



Pacific Gas and Electric Company

CONTACT **BILL TIPTON**
PHONE* (916) 760-1988

CONST. HOURS: 8:00AM-4:00PM MON-FRI

PROJECT NO.	151074
DRAWN	JEL
DESIGNED	JEL
CHECKED	CAA
DATE	OCTOBER 13, 2015

SHEET NO. 4 OF 15

LANE CLOSURE

SYMBOL LEGEND

CONSTRUCTION SIGN

FLAGGER

26" CONE

TYPE I BARRICADE

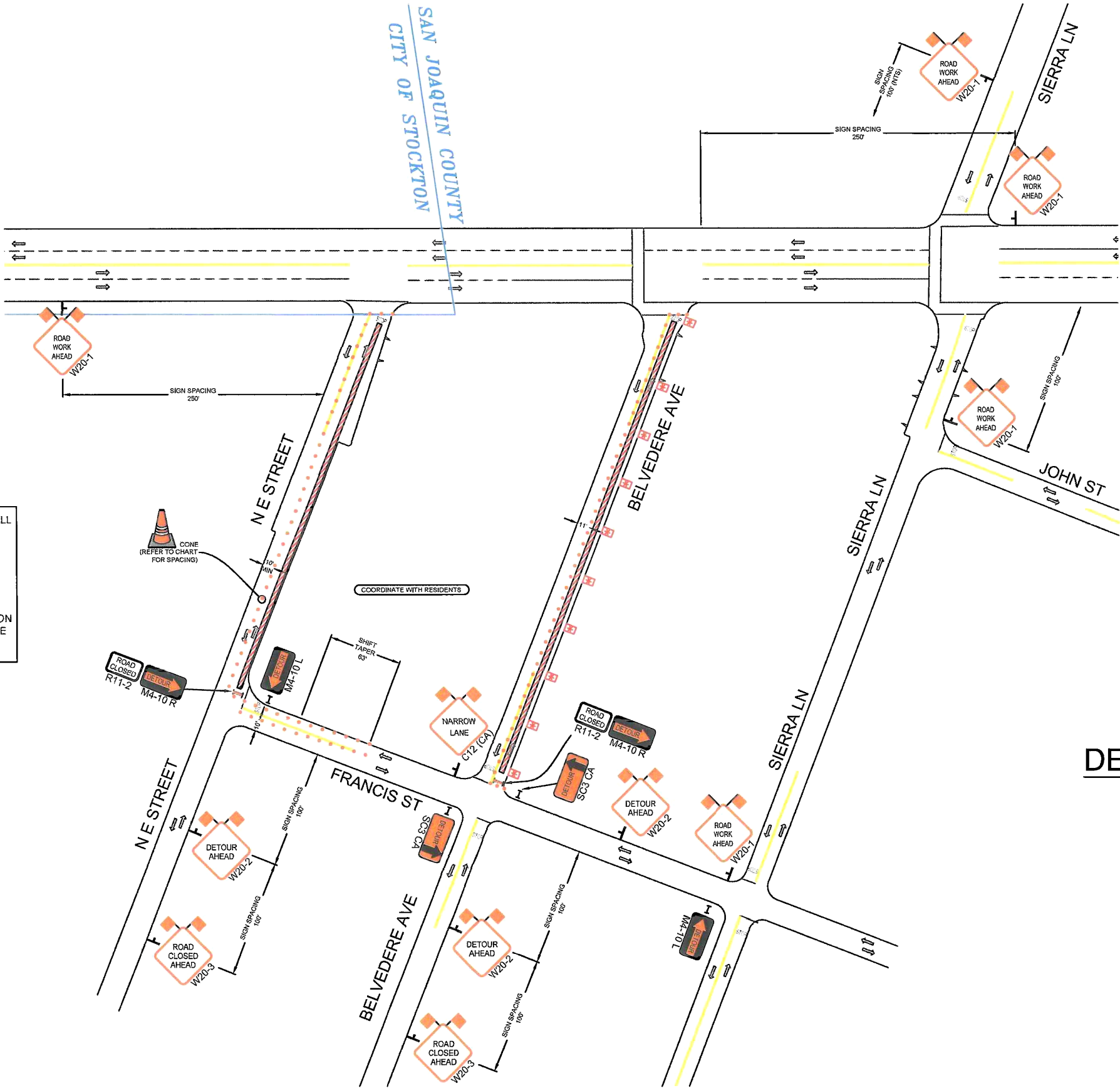
TYPE III BARRICADE

NO PARKING SIGN ON TYPE I BARRICADE TO BE PLACED 48 HOURS IN ADVANCE

FLASHING ARROW BOARD FAS

NOTES

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DETOUR MAP - SEE SHEET 6

REVISIONS			
REV.	DESCRIPTION	REV. DONE BY	DATE
1	REMOVE R5-1 SIGNS FROM SHEETS 3 & 5	SM	12/30/15

PM30092342

ROADS < 50 MPH:
MINIMUM 36" SIGN PANELS
(48" SIGNS MAY BE USED)

ROADS ≥ 50 MPH:
MINIMUM 48" SIGN PANELS

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LOCATION WATERLOO RD & N E STREET, STOCKTON, CA

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PHONE* (916) 760-1988


CONST. HOURS: 8:00AM-4:00PM MON-FRI


PROJECT NO. 151074
DRAWN JEL
DESIGNED JEL
CHECKED CAA


DATE
OCTOBER 13, 2015


SHEET NO. 5 OF 15


SYMBOL LEGEND


 CONSTRUCTION SIGN


 FLAGGER

 28" CONE

 TYPE I BARRICADE

 TYPE III BARRICADE

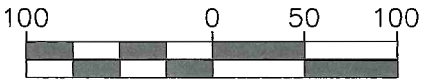
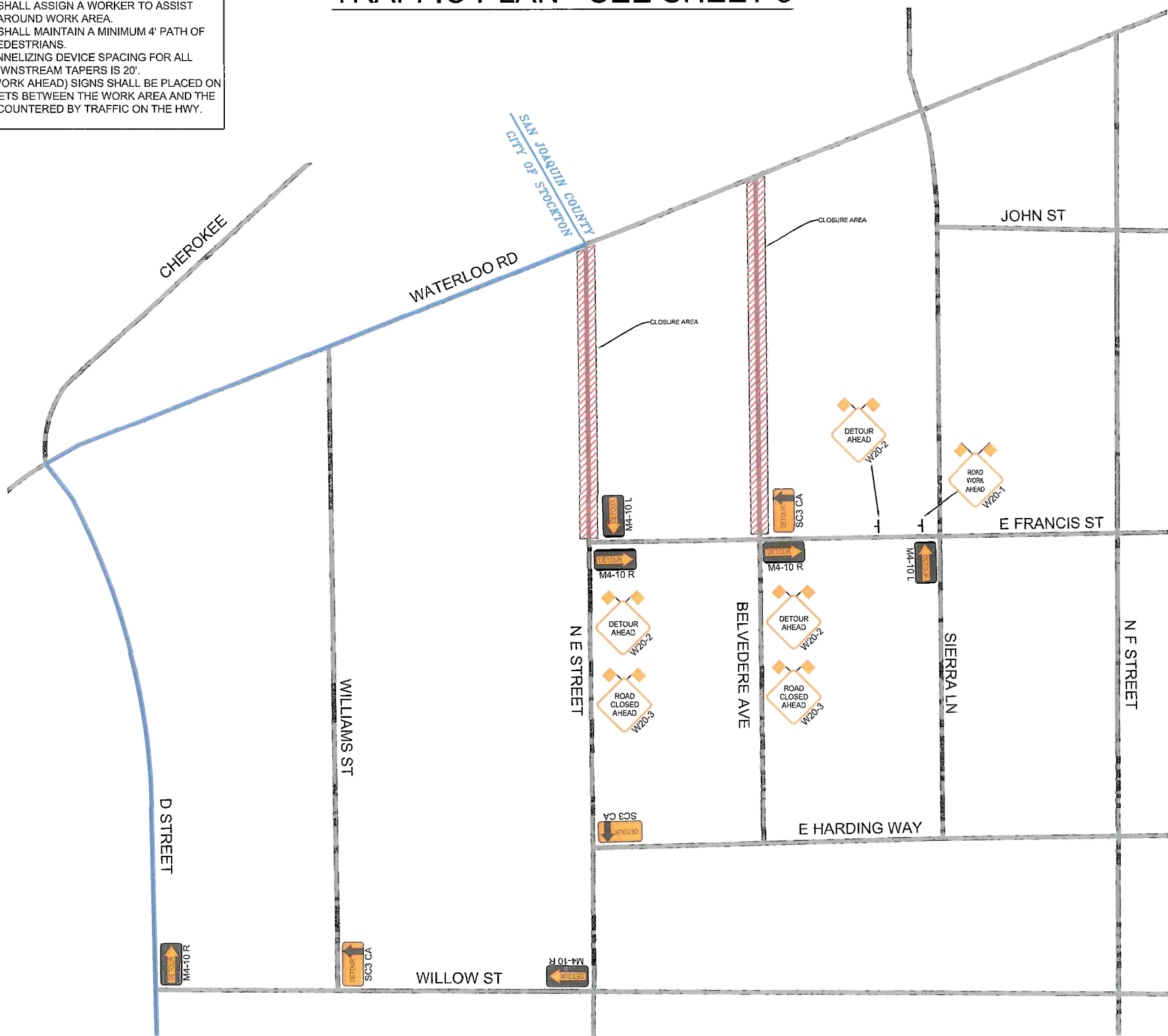
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 FLASHING ARROW BOARD

NOTES

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TRAFFIC PLAN - SEE SHEET 5



CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS			
REV	DESCRIPTION	REV DONE BY	DATE

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ROADS < 50 MPH:
MINIMUM 36" SIGN PANELS
(48" SIGNS MAY BE USED)



ROADS ≥ 50 MPH:
MINIMUM 48" SIGN PANELS

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CA C31 LIC #979806

LOCATION: WATERLOO RD, STOCKTON, CALIFORNIA



Pacific Gas and
Electric Company

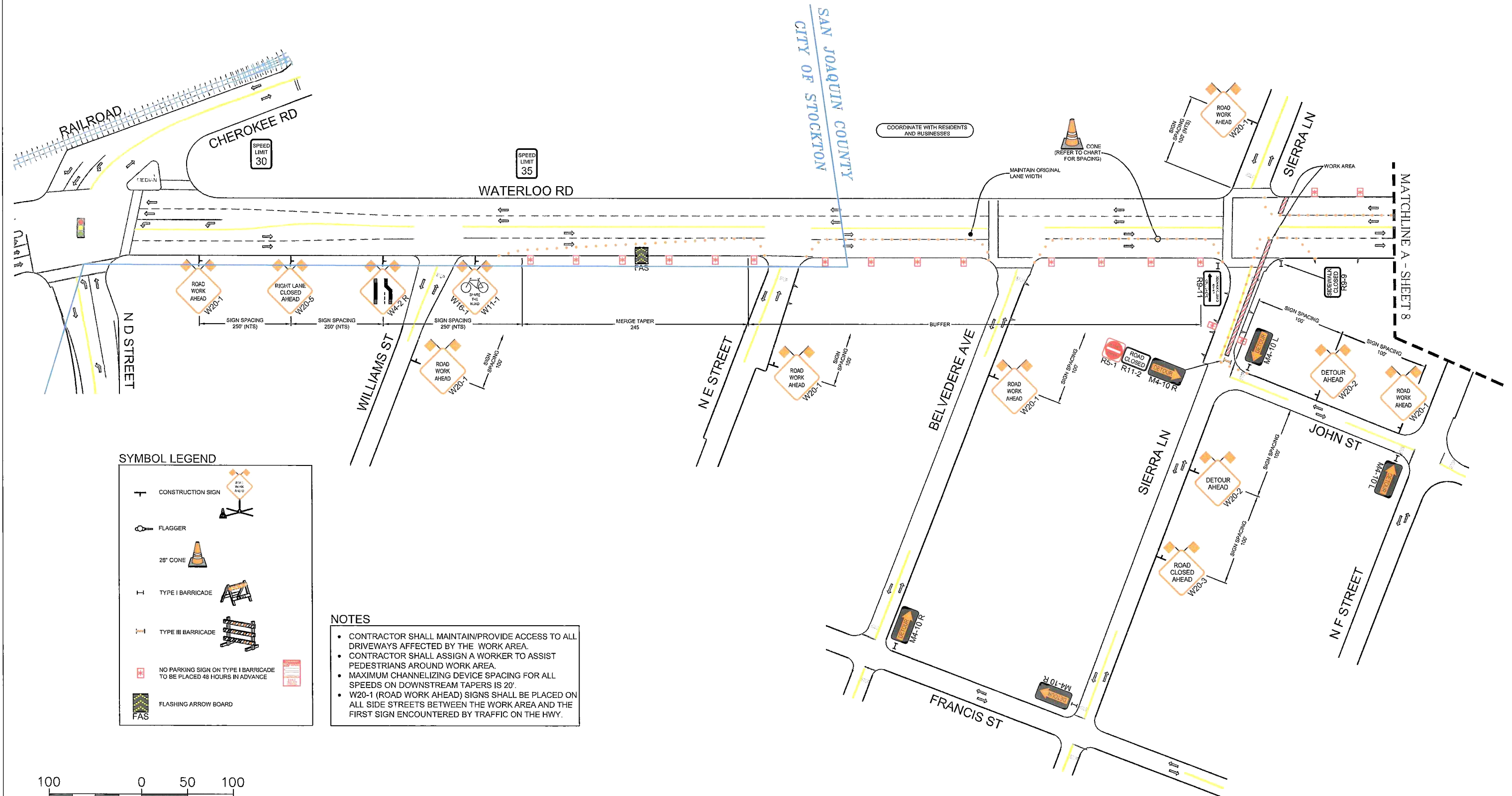
CONTACT: BILL TIPTON
PHONE: (916) 760-1988

PROJECT NO: 151074
DRAWN: JEL
DESIGNED: JEL
CHECKED: CAA

DATE:
OCTOBER 13, 2015



LANE CLOSURE



CONST. HOURS: 8:00AM-4:00PM MON-FRI

[illegible]

PM30992342



ROADS < 50 MPH:
MINIMUM 36" SIGN PANELS
(48" SIGNS MAY BE USED)



ROADS ≥ 50 MPH:
MINIMUM 48" SIGN PANELS



1136 SUNCAST LN STE 9
EL DORADO HILLS, CA 95762
(888) 306-1211 OFFICE (888) 768-7022 FAX
CA C31 LIC #979806

LOCATION	WATERLOO RD & SIERRA LN, STOCKTON, CA
----------	---------------------------------------



Pacific Gas and Electric Company

CONTACT BILL TIPTON
PHONE# (916) 760-1988

PROJECT NO.	151074
DRAWN	JEL
DESIGNED	JEL
CHECKED	CAA


DATE
OCTOBER 13, 2015





SHEET NO. 7 of 15


LANE CLOSURE


SYMBOL LEGEND


 CONSTRUCTION SIGN


 FLAGGER

 28" CONE

 TYPE I BARRICADE

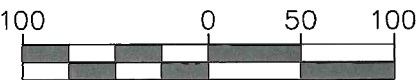
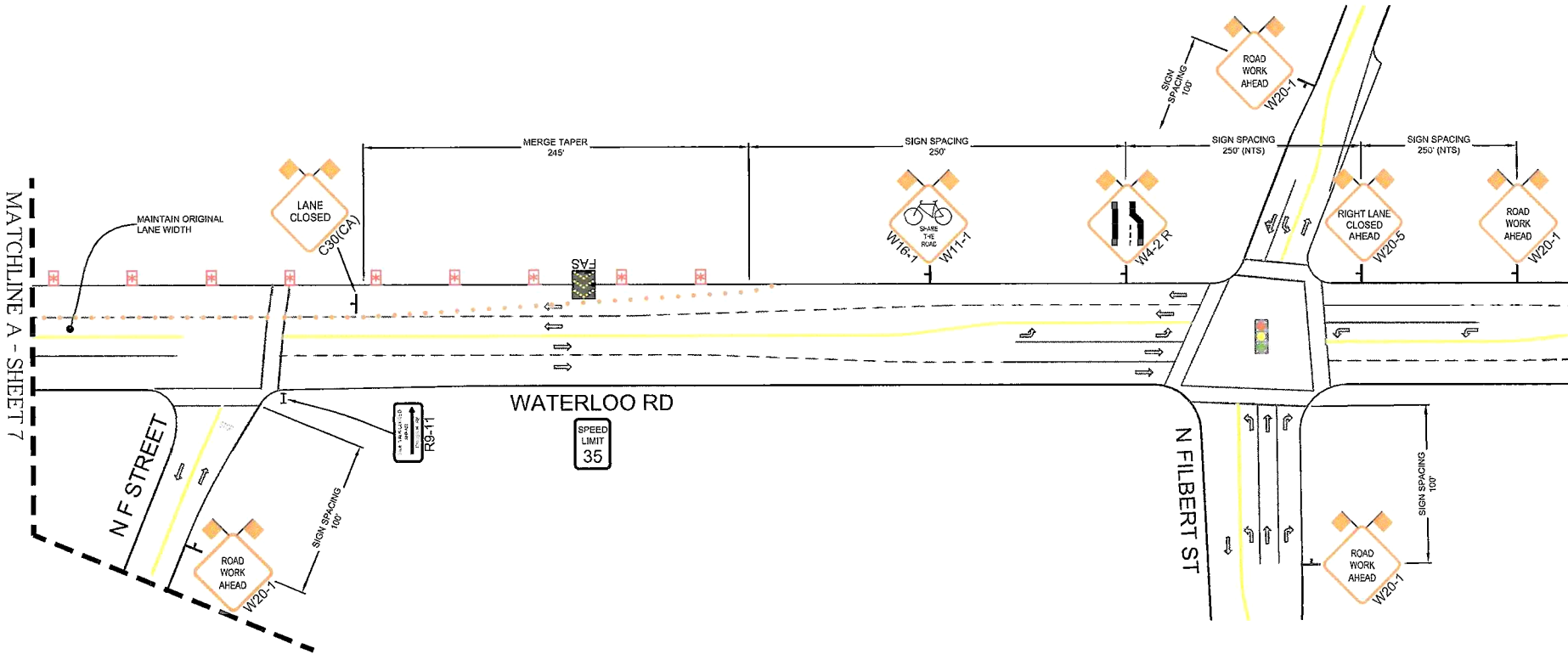
 TYPE III BARRICADE

 NO PARKING SIGN ON TYPE I BARRICADE TO BE PLACED 48 HOURS IN ADVANCE

 FLASHING ARROW BOARD

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CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS			
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PM30092342

**ROADS < 50 MPH:**
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MINIMUM 48" SIGN PANELS

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 **Pacific Gas and Electric Company**

CONTACT: **BILL TIPTON**
PHONE: (916) 760-1985

PROJECT NO. **151074**
DRAWN: **JEL**
DESIGNED: **JEL**
CHECKED: **CAA**
DATE: **OCTOBER 13, 2015**



SHEET NO. **8** OF **15**

LANE CLOSURE

SYMBOL LEGEND

CONSTRUCTION SIGN

FLAGGER

28" CONE

TYPE I BARRICADE

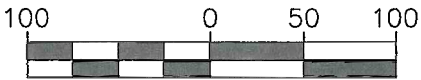
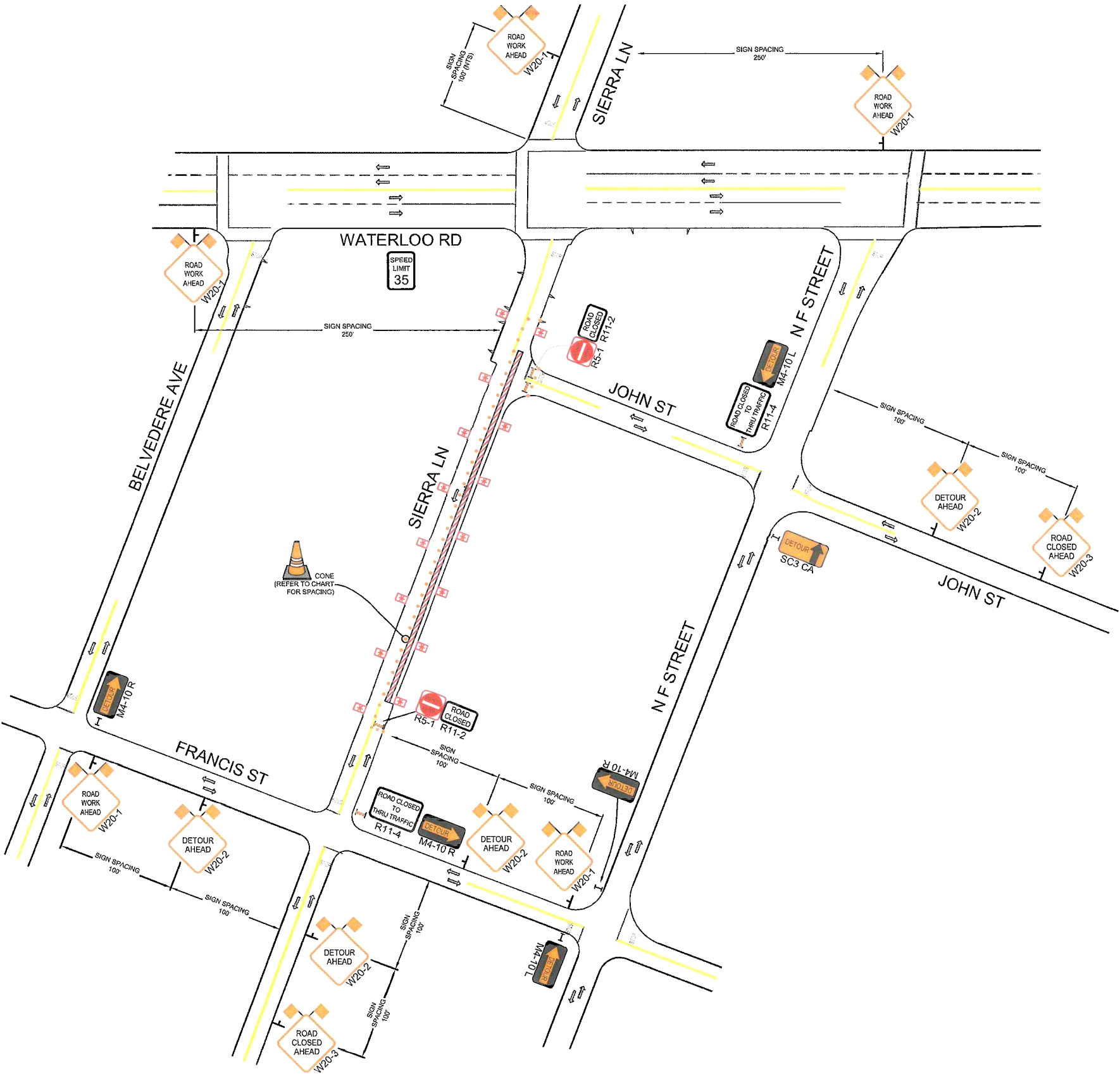
TYPE III BARRICADE

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FLASHING ARROW BOARD

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PROJECT NO. 151074
DRAWN: JEL
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CHECKED: CAA

DATE:
OCTOBER 13, 2015



LANE CLOSURE

SYMBOL LEGEND

CONSTRUCTION SIGN

FLAGGER

28" CONE

TYPE I BARRICADE

TYPE III BARRICADE

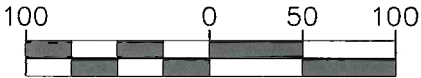
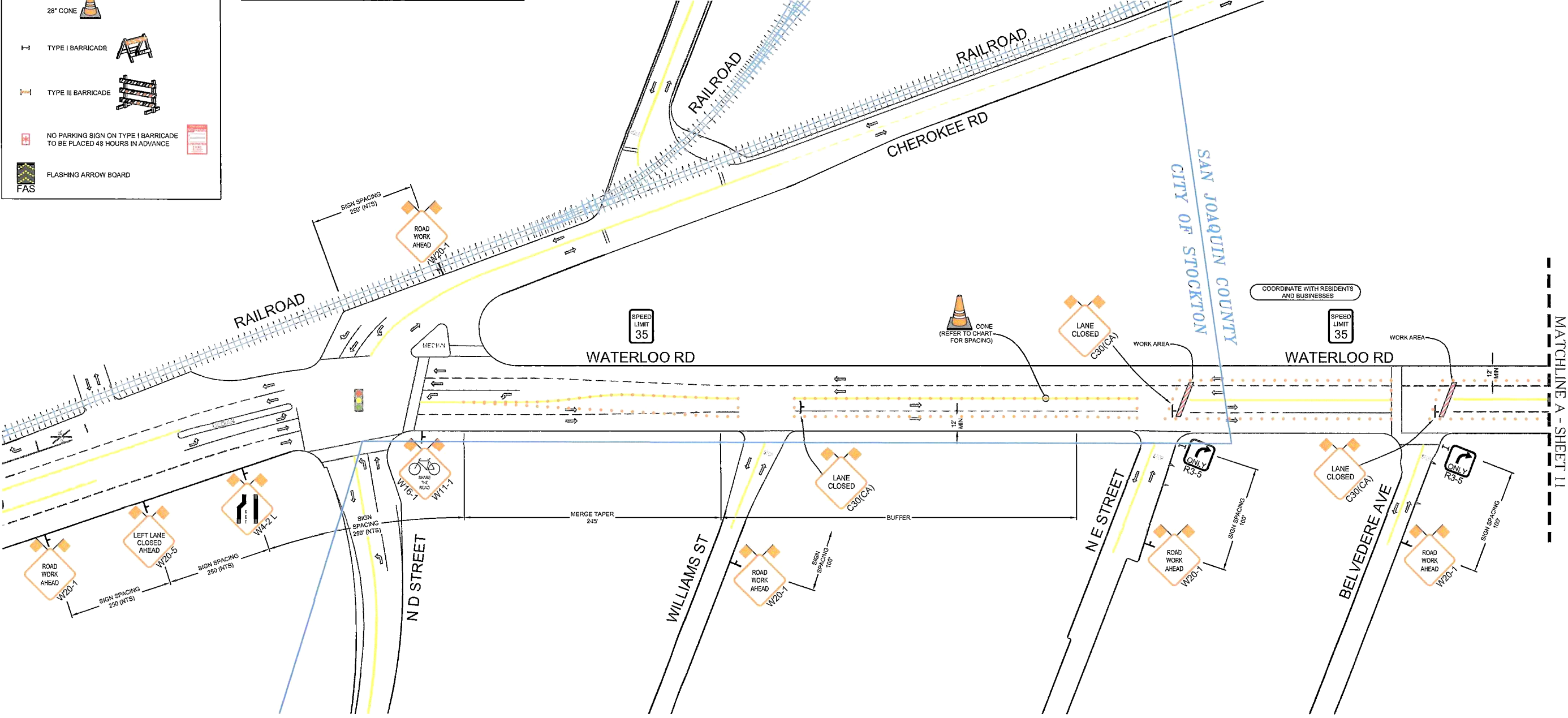
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FLASHING ARROW BOARD

FAS

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REV	DESCRIPTION	REV DONE BY	DATE

PM30992342

ROADS < 50 MPH:
MINIMUM 36" SIGN PANELS
(48" SIGNS MAY BE USED)

ROADS ≥ 50 MPH:
MINIMUM 48" SIGN PANELS

ALMENDARIZ CONSULTING ACKNOWLEDGES NO RESPONSIBILITY IN THE CASE OF ANY ACCIDENT, INJURY, OR DEATH OCCURRING DURING THE USE OF THESE PLANS. PLANS ARE NOT TO BE DUPLICATED FOR USE BY ANY PERSONS NOT INCLUDED IN THIS CONTRACT WITHOUT THE CONSENT OF AGI OR OWNER.

ALMENDARIZ CONSULTING

1136 SUNCAST LN STE 9
EL DORADO HILLS, CA 95762
(888) 306-1211 OFFICE (888) 768-7022 FAX
CA C31 LIC #979806

LOCATION: WATERLOO RD, STOCKTON, CA

Pacific Gas and Electric Company

CONTACT: BILL TIPTON
PHONE: (916) 760-1985


PROJECT NO: 151074
DRAWN: JEL
DESIGNED: JEL
CHECKED: CAA


DATE:
OCTOBER 13, 2015


SHEET NO. 10 OF 15


LANE CLOSURE


SYMBOL LEGEND


 CONSTRUCTION SIGN


 FLAGGER

 28" CONE

 TYPE I BARRICADE

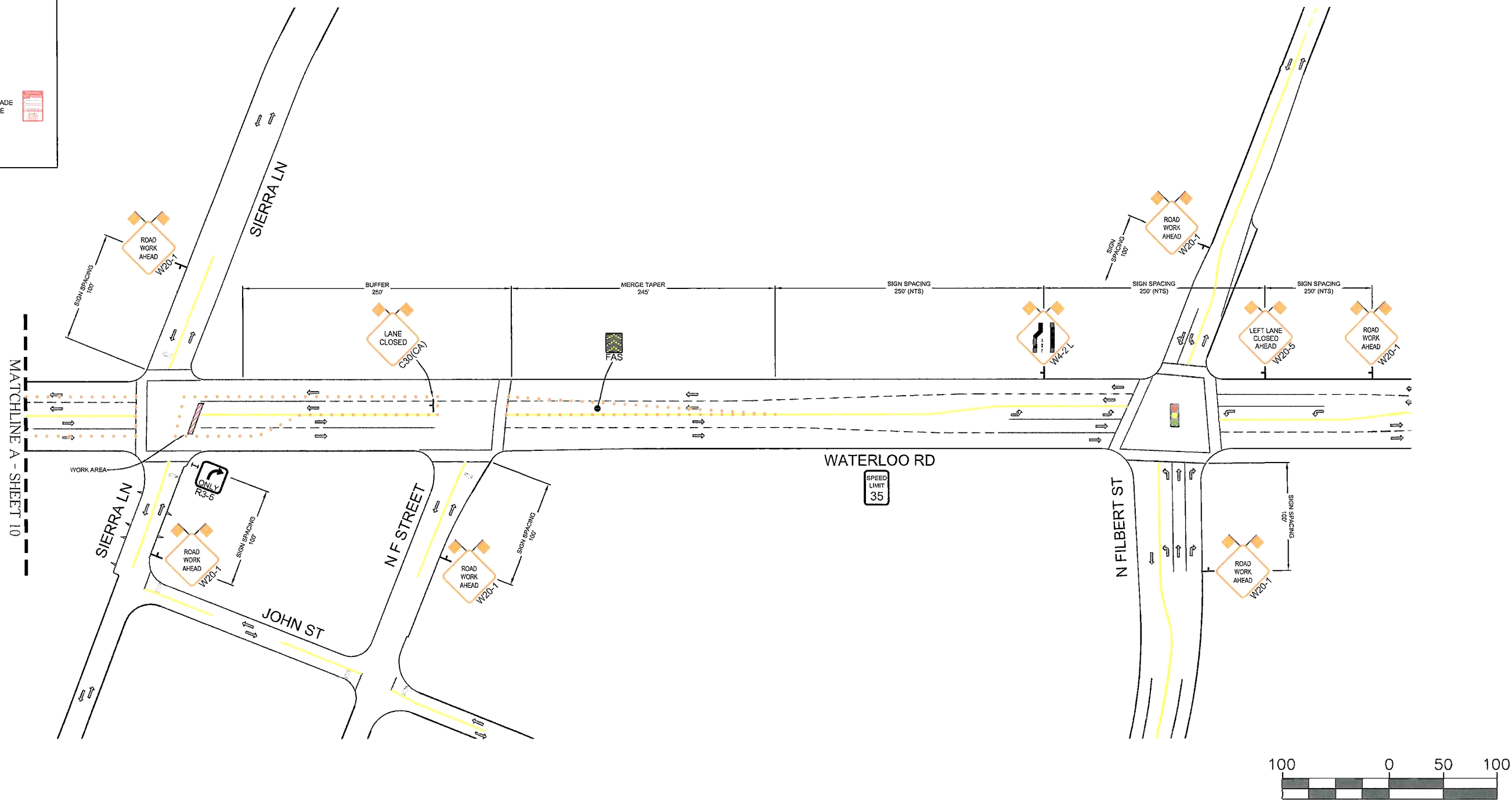
 TYPE III BARRICADE

 NO PARKING SIGN ON TYPE I BARRICADE TO BE PLACED 48 HOURS IN ADVANCE

 FLASHING ARROW BOARD
FAS

NOTES


- CONTRACTOR SHALL MAINTAIN/PROVIDE ACCESS TO ALL DRIVEWAYS AFFECTED BY THE WORK AREA.
- MAXIMUM CHANNELIZING DEVICE SPACING FOR ALL SPEEDS ON DOWNSTREAM TAPERS IS 20'.
- W20-1 (ROAD WORK AHEAD) SIGNS SHALL BE PLACED ON ALL SIDE STREETS BETWEEN THE WORK AREA AND THE FIRST SIGN ENCOUNTERED BY TRAFFIC ON THE HWY.




CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS			
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PM30992342

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**ALMENDARIZ CONSULTING**

1136 SUNCAST LN STE 9
EL DORADO HILLS, CA 95762
(858) 306-1211 OFFICE (858) 768-7022 FAX
CA C31 LIC #979806

LOCATION: **WATERLOO RD & SIERRA LN, STOCKTON, CA**

 **Pacific Gas and Electric Company**

CONTACT: **BILL TIPTON**
PHONE: (916) 760-1988


PROJECT NO. **151074**

DRAWN: **JEL**

DESIGNED: **JEL**

CHECKED: **CAA**

DATE: **OCTOBER 13, 2015**



SHEET NO. 11 OF 15

FLAGGER OPERATION

SYMBOL LEGEND

CONSTRUCTION SIGN

FLAGGER

28" CONE

TYPE I BARRICADE

TYPE III BARRICADE

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FLASHING ARROW BOARD

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CA C31 LIC #979806

LOCATION FRANCIS ST & BELVEDERE AVE, STOCKTON, CA

Pacific Gas and Electric Company

CONTACT BILL TIPTON
PHONE: (916) 760-1988

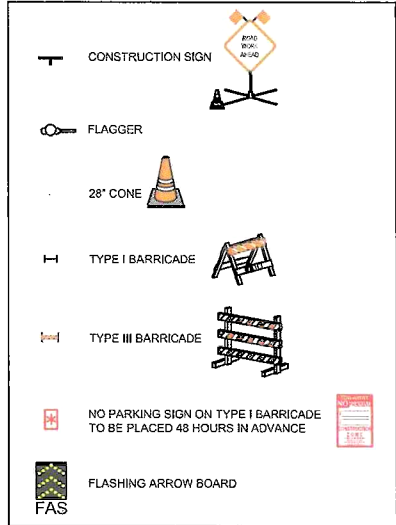
PROJECT NO 151074
DRAWN JEL
DESIGNED JEL
CHECKED CAA

DATE
OCTOBER 13, 2015

SHEET NO. 12 OF 15

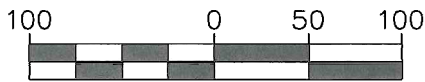
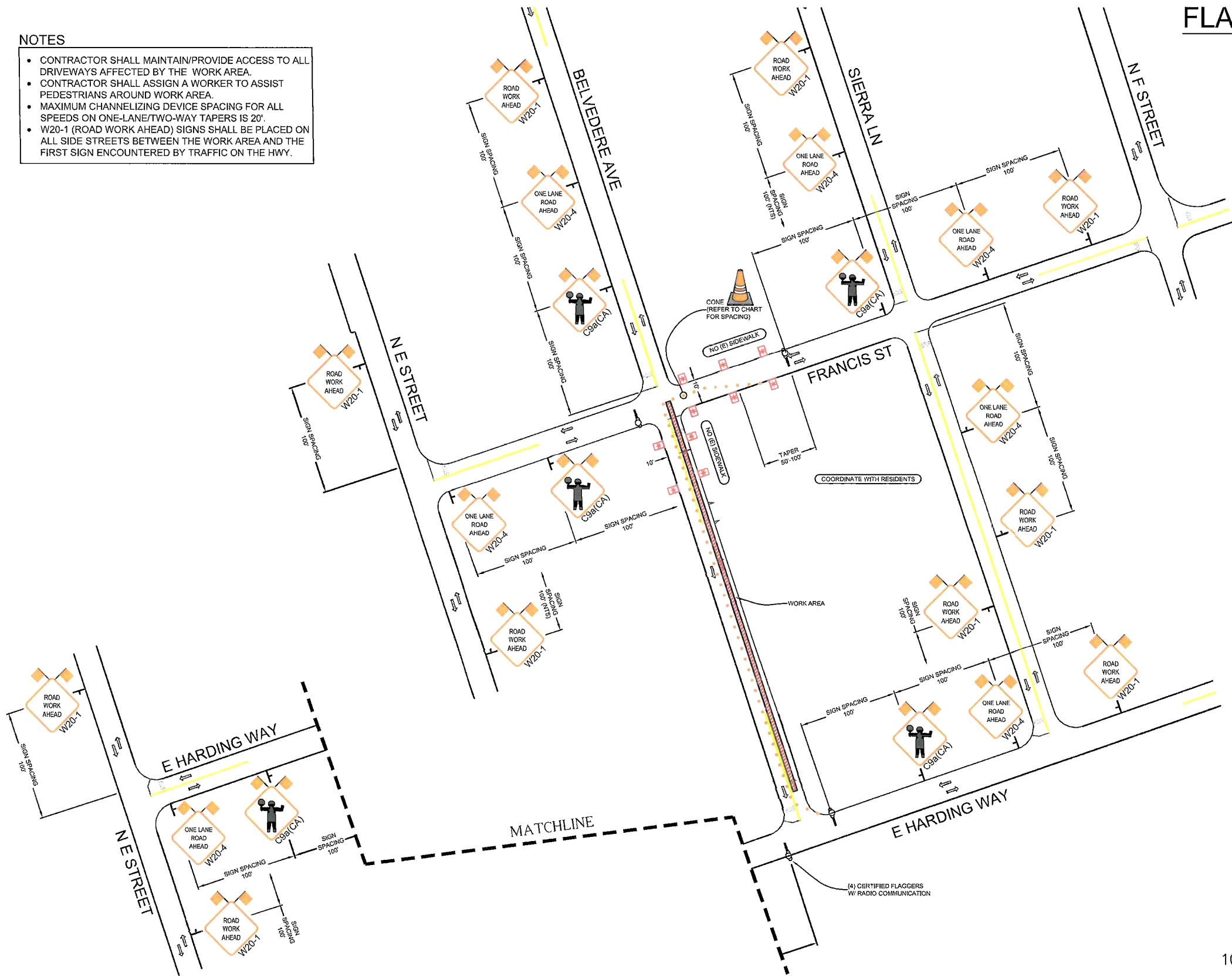
FLAGGER OPERATION

SYMBOL LEGEND



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
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SHEET NO. 13 OF 15


FLAGGER OPERATION


SYMBOL LEGEND


 CONSTRUCTION SIGN


 FLAGGER

 28" CONE

 TYPE I BARRICADE

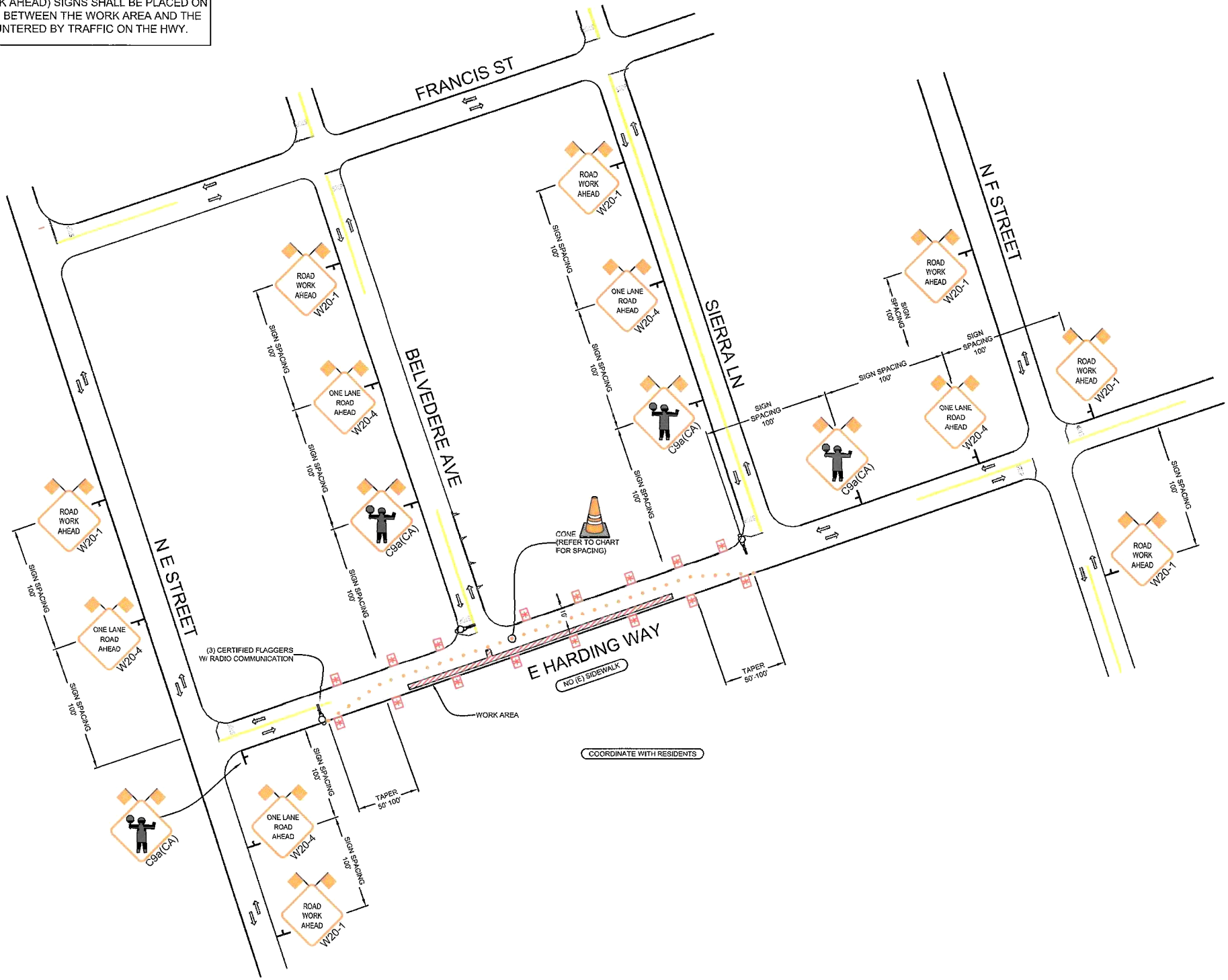
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**ALMENDARIZ
CONSULTING**

1136 SUNCAST LN STE 9
CL DORADO HILLS, CA 95762
(988) 306-1211 OFFICE (853) 768-7022 FAX
CA C31 LIC #979806

LOCATION BELVEDERE AVE, & E HARDING WAY, STOCKTON, CA

 **Pacific Gas and
Electric Company**

CONTACT BILL TIPTON
PHONE# (916) 760-1988


PROJECT NO 151074

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DESIGNED JEL

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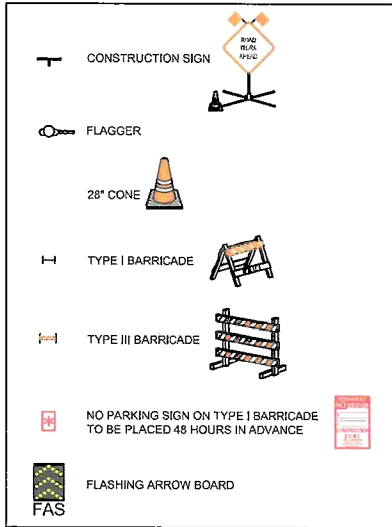
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OCTOBER 13, 2015


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SHEET NO. 14 OF 15

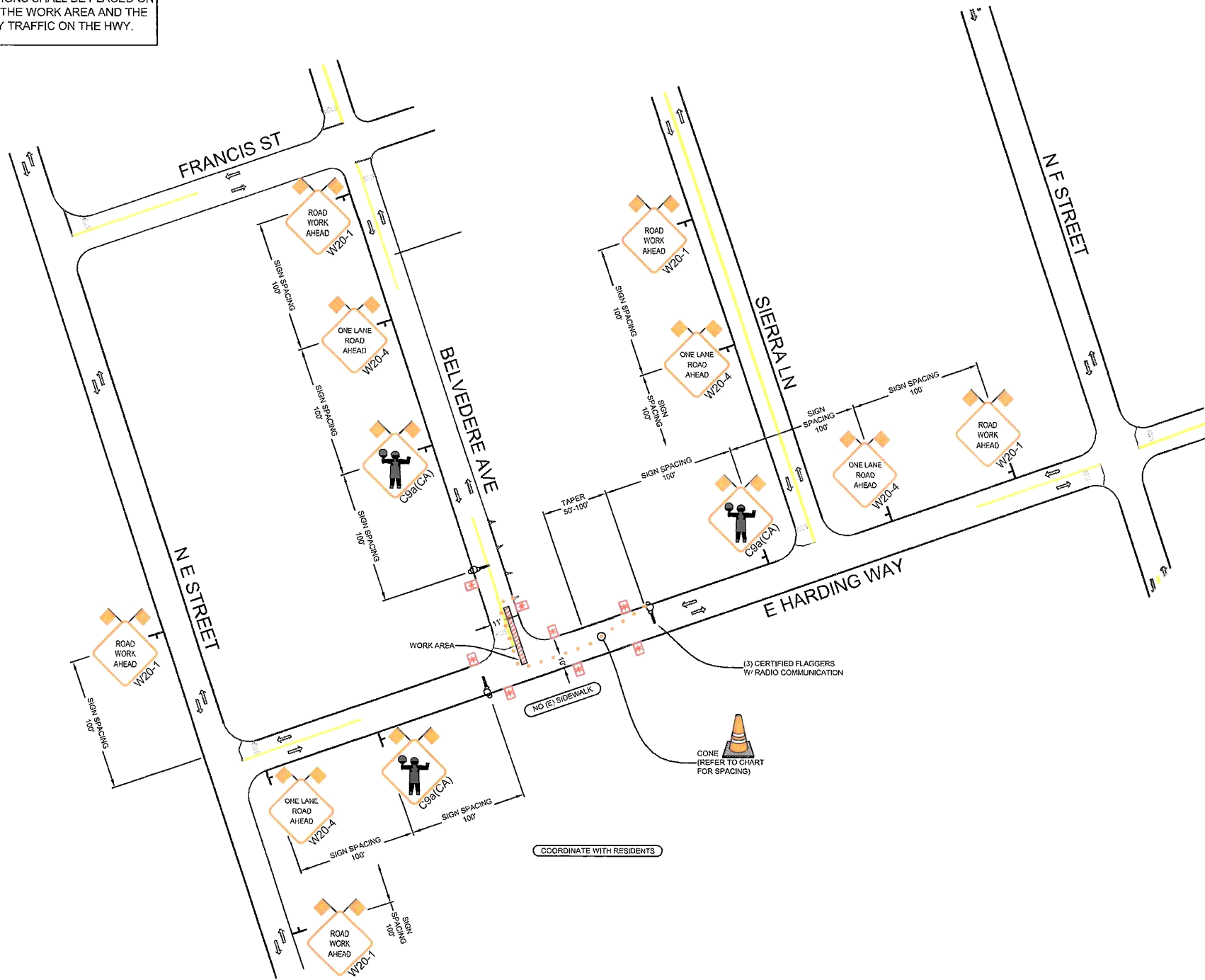
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