



File No. 16.01.241.01
May 11, 2018

**ADDENDUM NO. 2
FRANCISCO BLVD. EAST SIDEWALK IMPROVEMENTS
PROJECT NO. 11114**

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY WRITING IN ITS NUMBER ON PAGE 2 OF YOUR BID LOCATED IN THE PROPOSAL SECTION OF THE CONTRACT DOCUMENTS.

This addendum is issued to provide answers to the following questions received:

No.	Question	Answer
1.	Do you have a list of DBE consultants?	No. The City does not maintain a list of DBE firms.
2.	Will the City retain a geotechnical firm for compaction or should we include a budget for compaction testing?	No geotechnical work/contracting is associated with this contract. The City will contract out separately for materials testing and compaction when needed.
3.	Should we assume the project would qualify for a CEQA Exemption?	Yes. City staff will be completing the CEQA determination, which is expected to mirror the NEPA determination.
4.	Are any of the NEPA materials available? For example, the previous environmental studies or Caltrans PES form.	Yes. Please find the attached copy of all the NEPA documents.
5.	Do you have a map of the project and the list of improvements?	Yes. Please refer to the 100% plans posted on the RFP website.
6.	Who prepared the original plans for this project?	The original plans up to 90% design were prepared by Jacobs. The City subsequently retained CH2M/Hill to bring them to the current standing design level.

By:

David Nicholson, P.E.
Associate Civil Engineer

CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Francisco Boulevard East Improvements

04-MRN-0-SRF **NMTPL – 5043 (027)**
 Dist.-Co.-Rte. (or Local Agency) P.M./P.M. E.A/Project No. Federal-Aid Project No. (Local Project)/Project No.

PROJECT DESCRIPTION: (Briefly describe project including need, purpose, location, limits, right-of-way requirements, and activities involved in this box. Use Continuation Sheet, if necessary.)

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East, from Vivian Street to Grand Avenue. Work will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The maximum depth of impacts will be 10 feet.

CEQA COMPLIANCE (for State Projects only)

Based on an examination of this proposal and supporting information, the following statements are true and exceptions do not apply (See 14 CCR 15300 et seq.):

- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.
- There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
- There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
- This project does not damage a scenic resource within an officially designated state scenic highway.
- This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List").
- This project does not cause a substantial adverse change in the significance of a historical resource.

CALTRANS CEQA DETERMINATION (Check one)

Exempt by Statute. (PRC 21080[b]; 14 CCR 15260 et seq.)

Based on an examination of this proposal, supporting information, and the above statements, the project is:

- Categorically Exempt Class** (PRC 21084; 14 CCR 15300 et seq.)
- Categorically Exempt General Rule exemption.** [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061[b][3].)]

Print Name: Environmental Branch Chief

Print Name: Project Manager/DLA Engineer

Signature

Date

Signature

Date

NEPA COMPLIANCE

In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:

- does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
- has considered unusual circumstances pursuant to 23 CFR 771.117(b).

CALTRANS NEPA DETERMINATION (Check one)

23 USC 326: The State has determined that this project has no significant impacts on the environment as defined by NEPA, and that there are no unusual circumstances as described in 23 CFR 771.117(b). As such, the project is categorically excluded from the requirements to prepare an environmental assessment or environmental impact statement under the National Environmental Policy Act. The State has been assigned, and hereby certifies that it has carried out the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding dated June 07, 2013, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:

- 23 CFR 771.117(c): activity (c)(3)**
- 23 CFR 771.117(d): activity (d)**
- Activity** listed in Appendix A of the MOU between FHWA and the State

23 USC 327: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under 23 USC 327.

BORIS DEUNERT

Patricia Maurice

Chien S. Wu

Print Name: Environmental Branch Chief

Print Name: Project Manager/DLA Engineer

Pat C

5/21/14

Chien S. Wu

5/21/14

Signature

Date

Signature

Date

Date of Categorical Exclusion Checklist completion: 05/20/14

Date of ECR or equivalent : None

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., CE checklist, additional studies and design conditions).

**CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM
Continuation Sheet**

04-MRN-0-SRF

NMTPL – 5043 (027)

Dist.-Co.-Rte. (or Local Agency)

P.M./P.M.

E.A/Project No.

Federal-Aid Project No. (Local Project)/Project No.

Continued from page 1:

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MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

January 10, 2014

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Biology
Francisco Boulevard East Improvements, Phase II; Federal Project No. NMTPL
5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed.

This memo characterizes biological resources within the project area, and its immediate surroundings, with a focus on trees and Migratory Bird Treaty Act (MBTA) compliance. Best management practices (BMPs) have been identified to minimize impacts.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location. The proposed project falls within the San Rafael 7.5-minute United States Geological Survey (USGS) quadrangle.

Permitting and Regulatory Requirements

Migratory Bird Treaty Act

MBTA implements international treaties between the U.S. and other nations, and is devised to protect migratory birds, any of their parts, eggs, and nests from activities such as hunting, pursuing, capturing, killing, selling, and shipping, unless expressly authorized in the regulations by permit. The State of California has incorporated the protection of birds of prey in Sections 3800, 3513, and 3503.5 of the California Fish and Game Code.

Tree removal required by this project should adhere to the recommendations of the MBTA to avoid impacts to birds protected by the MBTA. Specifically, it is recommended that potential nest trees be removed during the non-nesting season. In cases where trees cannot be removed during the appropriate season, pre-construction nesting surveys should occur prior to the onset of construction activities to identify and remove nearby bird nests (or otherwise prevent nesting), as necessary, outside the nesting season.

Local Protections

Marin County contains a native tree preservation and protection ordinance (County of Marin, 2002) and tree removal permit, which identify 'Protected' and 'Heritage' trees based on species and size (County of Marin, 2012). None of the trees within the project qualify for these designations and the project is consistent with the local tree ordinances.

Methods

The following tasks were completed during the survey: (1) identification of each tree within the project; (2) measurement of the diameter at breast height (DBH) of each tree, and (3) noting MBTA concerns and environmental setting.

The DBH of each tree was measured at approximately 1.37 m (4.5 ft) above the natural grade using diameter tape. All DBH measurements were taken in centimeters (cm) and later converted to inches.

Results

A total of 52 trees were identified within the project. The mapped trees represent six different species, all of which are ornamental non-native varieties. Tree details are provided in Attachment A, tree locations shown in Attachment B, and representative tree photos are included in Attachment C. Landscaped areas, located along the edge of some lots, consisted primarily of non-native shrubs, forbs, and grasses.

MBTA species, such as songbirds, may forage and roost in trees in and adjacent to the project. The pallid bat is unlikely to roost in the street trees, which are not typically associated with pallid bat roosts and do not appear to provide the hollows necessary to support colonial roosting. The project also contains limited habitat for their prey- large ground based insects.

Best Management Practices

The following BMPs are recommended to be incorporated into the Special Provisions for the project to ensure that the project construction activities will not adversely affect biological resources, including water quality and natural habitat within the adjacent waterways. The BMPs should be implemented on the site by the Contractor to ensure that sediment and other pollutants are contained on the project site and do not enter storm drains adjacent to the project location.

1. All work shall be completed during the dry season (between June 15 and October 15) and when rainfall is not predicted for the region, in order to prevent erosion and water quality impacts. Paving work shall not take place when raining.
2. BMPs to prevent construction materials or debris from entering waterways and storm drains (i.e. filter fabric, straw wattles, and/or silt fencing) will be installed prior to the initiation of work and will be properly maintained. Additionally, silt fence barriers shall be installed along marshes and creeks that are immediately adjacent to the roadway, as directed by a qualified professional, in order to prevent water quality impacts. At the end of project construction, all materials trapped by the barriers and excess materials such as dirt, rock, pavement pieces, or debris shall be collected using dry sweep.
3. A litter control program shall be instituted at the project site. All workers will ensure that food scraps, paper wrappers, food containers, cans, bottles, and other trash from the project area are deposited in covered or closed trash containers. The trash containers shall be removed from the area at appropriate intervals.
4. Measures shall be designated to control or prevent pollution of surface runoff from accidental spills from on-site vehicle/equipment storage, fueling and maintenance. These measures shall include preventing any contaminated water from entering the storm drain system, waters of the State or adjacent sensitive areas.
5. All leaks, drips and spills shall be immediately cleaned up to prevent entry into drainages and water bodies. All workers shall be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.
6. All stockpiles of construction debris, construction material and/or excavated material shall be managed to prevent water quality impacts to storm water or surrounding natural marine habitats. Refer to Section WM-3, Stockpile Management, of the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual.
7. All trash and debris, including asphalt grinding materials, will be disposed of at an appropriate facility.

Additionally, all construction activities and implemented BMPs shall be in accordance with Section 4, Temporary Sediment Control Best Management Practices, in the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual.

Storm Water Pollution Prevention

For the proposed project, the estimated area of disturbed soil is less than 1 acre and therefore, a Storm Water Pollution Prevention Plan (SWPPP) does not need to be submitted to the County. However, measures for storm water pollution prevention will be incorporated into the contract specifications for the project to ensure quality of storm water is not affected by construction activities.

Measures shall be designated to control or prevent pollution of surface runoff from erosion, mud and sediment, material stockpiles and on-site vehicle/equipment storage and maintenance. These measures shall include preventing any contaminated water, such as saw-cut wash water, from entering the storm drain system or adjacent sensitive areas. The storm water pollution prevention measures shall also include provisions for maintenance and repair of control measures, personnel training, waste disposal, and if necessary, on-site sanitary facilities.

Upon learning of approaching inclement weather, the designated responsible party shall initiate the appropriate pollution prevention measures and regularly visit, inspect, and as necessary, maintain the enacted pollution control measures.

Equipment/Construction Staging

The City of San Rafael's project specifications will require the construction contractor to submit to the City for approval an equipment staging plan and proposed staging location. As part of the review, the City will require the following minimum requirements for all staging areas:

- The staging area will be located on an existing asphalt or concrete area. No staging will be permitted on undeveloped lots.
- The staging area will be included in the contractor's SWPPP.
- The staging area will not be located in an environmentally or culturally sensitive area and/or impact water resources (i.e. rivers, streams, bays, inlets, lakes, etc.).
- The staging area will not be located in a regulatory floodway or within the base floodplain (100-year).
- The staging area will not affect access to properties or roadways.

Conclusion

With the implementation of the BMPs described within, the proposed project will have no effect on any federally or state-listed species or their associated habitats. New trees will be replanted as indicated in the landscaping plans, to include similar landscaping varieties (e.g. Scarlet oak [*Quercus coccinea*], Red maple [*Acer rubrum*], and London Plane [*Plantanus acerifolia*]) along with relocated palm trees. These trees are expected to provide a similar habitat function and value as the current trees along the project. The project will comply with the MBTA as described under the permitting and BMP sections.

References

Bolster, B.C. 1998. Pallid Bat, *Antrozous pallidus*. Terrestrial Mammal Species of Special Concern in California. Online:

<http://www.dfg.ca.gov/wildlife/nongame/ssc/docs/mammal/species/08.pdf>.

California Department of Fish and Wildlife. 2011. Special Animals. January 2011. Online:

<http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/SPAnimals.pdf>.

_____. 2013. California Natural Diversity Database. Location summary reports for California red-legged frog in Solano County. Wildlife and Habitat Data Analysis Branch, California Department of Fish and Wildlife. Sacramento. November 2013.

County of Marin. 2002. Ordinance NO. 3342. Ordinance of the Marin County board of supervisors amending title 22 to reenact provisions for native tree preservation and protection.

_____. 2012. Tree Removal Ordinance. Community Development Agency. San Rafael, CA. Online: <http://www.co.marin.ca.us/depts/CD/forms/00000049.pdf>

US Census Department. 2013. San Rafael QuickFacts. Last Revised: Thursday, 27-Jun-2013 13:55:49 EDT, Online: <http://quickfacts.census.gov/qfd/states/06/0668364.html>

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jeanette Weisman', with a stylized, cursive script.

Jeanette Weisman
Project Biologist
CH2M HILL

Please call me at (415) 485-3408 if you need more information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Hunter Young', with a cursive script.

Hunter Young
Assistant Civil Engineer

Attachment A
Table

TABLE 1. TREE INVENTORY

Tree ID ¹	Common Name	Scientific Name	Total DBH (cm)	Total DBH (in)	Notes	Anticipated Impact Type
1	American sycamore	<i>Platanus occidentalis</i>	17	6.7		Remove
2	American sycamore	<i>Platanus occidentalis</i>	23	9.1		Remove
3	Washington fan palm	<i>Washingtonia robusta</i>	29	11.4		-
4	Washington fan palm	<i>Washingtonia robusta</i>	29.5	11.6		-
5	Washington fan palm	<i>Washingtonia robusta</i>	40	15.7		-
6	Washington fan palm	<i>Washingtonia robusta</i>	28.5	11.2		-
7	Washington fan palm	<i>Washingtonia robusta</i>	26.5	10.4		-
8	Washington fan palm	<i>Washingtonia robusta</i>	25	9.8		-
9	Washington fan palm	<i>Washingtonia robusta</i>	32.5	12.8		-
10	Washington fan palm	<i>Washingtonia robusta</i>	42	16.5	#10, 11, and 12 small and clumped	Remove
11	Washington fan palm	<i>Washingtonia robusta</i>	42	16.5		Remove
12	Washington fan palm	<i>Washingtonia robusta</i>	42	16.5		Remove
13	Washington fan palm	<i>Washingtonia robusta</i>	32.5	12.8		-
14	Washington fan palm	<i>Washingtonia robusta</i>	32.5	12.8		-
15	Washington fan palm	<i>Washingtonia robusta</i>	-	-	Small tree with trunk below 4.5 feet	Remove
16	Mexican Alvaradoa	<i>Alvaradoa amorphoides</i>	21.5	8.5		Remove
17	American sycamore	<i>Platanus occidentalis</i>	17	6.7		Remove
18	American sycamore	<i>Platanus occidentalis</i>	16.5	6.5		Remove
19	American sycamore	<i>Platanus occidentalis</i>	17	6.7		Remove
20	American sycamore	<i>Platanus occidentalis</i>	16	6.3		Remove
21	American sycamore	<i>Platanus occidentalis</i>	16	6.3		Remove
22	Tree sparkleberry	<i>Vaccinium arboreum</i>	9.5	3.7		Remove
23	Tree sparkleberry	<i>Vaccinium arboreum</i>	9.5	3.7		Remove
24	American sycamore	<i>Platanus occidentalis</i>	16	6.3		Remove
25	American sycamore	<i>Platanus occidentalis</i>	16.5	6.5		Remove
26	American sycamore	<i>Platanus occidentalis</i>	18	7		Remove

TABLE 1. TREE INVENTORY

Tree ID ¹	Common Name	Scientific Name	Total DBH (cm)	Total DBH (in)	Notes	Anticipated Impact Type
27	American sycamore	<i>Platanus occidentalis</i>	17.5	6.9		Remove
28	American sycamore	<i>Platanus occidentalis</i>	18.5	7.3		Remove
29	American sycamore	<i>Platanus occidentalis</i>	14.5	5.7		Remove
30	American sycamore	<i>Platanus occidentalis</i>	14	5.5		Remove
31	American sycamore	<i>Platanus occidentalis</i>	33	13		Remove
32	American sycamore	<i>Platanus occidentalis</i>	21.5	8.5		Remove
33	American sycamore	<i>Platanus occidentalis</i>	29	11.4		Remove
34	American sycamore	<i>Platanus occidentalis</i>	21	8.3		Remove
35	London Plane	<i>Platanus acerifolia</i>	16.5	6.5		Remove
36	American sycamore	<i>Platanus occidentalis</i>	15.5	6.1		Remove
37	American sycamore	<i>Platanus occidentalis</i>	13.5	5.3		Remove
38	American sycamore	<i>Platanus occidentalis</i>	21	8.3		Remove
39	American sycamore	<i>Platanus occidentalis</i>	22	8.7		Remove
40	American sycamore	<i>Platanus occidentalis</i>	22	8.7		Remove
42	American sycamore	<i>Platanus occidentalis</i>	19	7.5		Remove
43	American sycamore	<i>Platanus occidentalis</i>	32	12.6		Remove
44	American sycamore	<i>Platanus occidentalis</i>	32	12.6		Remove
45	Sweetgum	<i>Liquidambar styraciflua</i>	25	9.8		Remove
46	Sweetgum	<i>Liquidambar styraciflua</i>	7	2.8		Remove
47	Sweetgum	<i>Liquidambar styraciflua</i>	16	6.3		Remove
48	Sweetgum	<i>Liquidambar styraciflua</i>	5	2.0		Remove
49	Sweetgum	<i>Liquidambar styraciflua</i>	20	7.9		Remove
50	Sweetgum	<i>Liquidambar styraciflua</i>	28	11.0		Remove
51	Sweetgum	<i>Liquidambar styraciflua</i>	8	3.1		Remove
52	Sweetgum	<i>Liquidambar styraciflua</i>	16	6.3		Remove

Attachment B
Plans with Tree Locations

LEGEND:

- REMOVE PAVEMENT/ EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

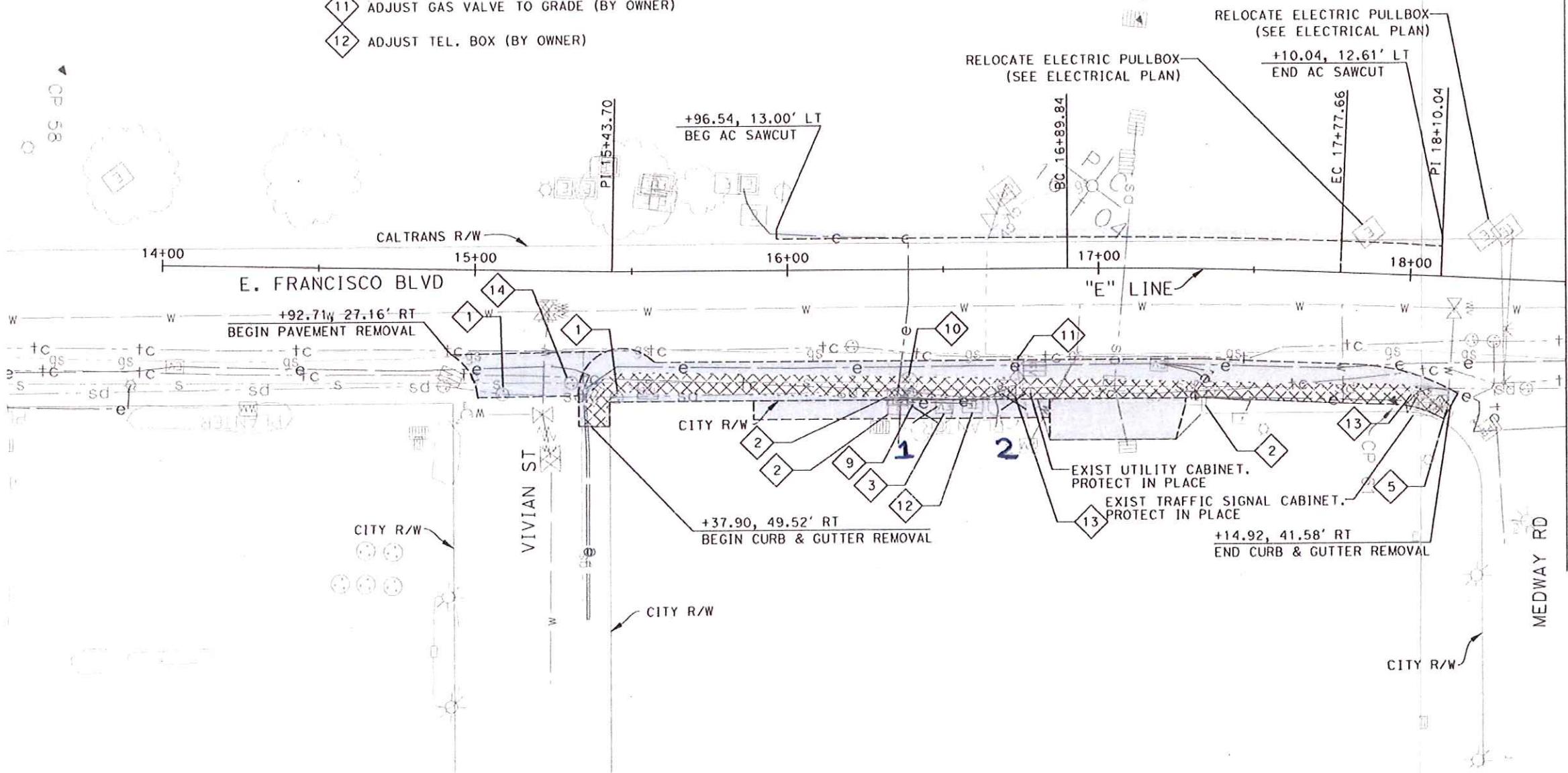
UNDERGROUND UTILITY CONTACT INFORMATION:

PGE (415)257-3405
 AT&T (415)499-4828
 MMWD (415)945-1154
 COMCAST (408)426-7707
 SRSD (415)485-3132
 LAS GALLINAS VALLEY SANITARY DIST. (415)472-1734

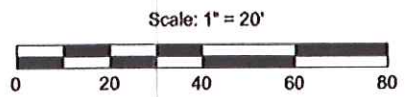
- 1 ADJUST SD MANHOLE COVER TO GRADE
- 2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 5 ADJUST WATER METER TO GRADE (BY OWNER)
- 6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- 7 CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 8 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 9 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 10 ADJUST CATV BOX TO GRADE (BY OWNER)
- 11 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 12 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 13 ADJUST CITY OWNED PULLBOX TO GRADE
- 14 ADJUST SS MANHOLE COVER TO GRADE

NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
6. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.



MATCH LINE "E" 18+50 SEE SHEET D-2



DESIGNED	NO.	REVISION	BY	DATE
A. VALDIOSERA				
DRAWN				
A. VALDIOSERA				
CHECKED				
E. DE LA PAZ				
APPROVED				

PROJECT NAME
EAST FRANCISCO BLVD.
 FROM VIVIAN ST. TO GRAND AVE. BRIDGE





DRAWING NAME
DEMOLITION AND UTILITY PLAN
 E 14+00 TO 18+50
 SAN RAFAEL COUNTY OF MARIN CALIFORNIA















JACOBS
 180 PROMENADE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/26/10
 PROJECT NO. 11114
 SHEET NO. D-1
 DRAWING 5 OF 55

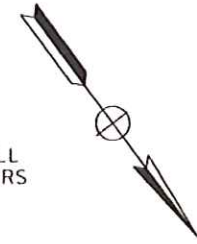
LEGEND:

-  REMOVE PAVEMENT / EXCAVATION AREA
-  REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
-  SAWCUT LINE
-  REMOVE TREE

-  1 ADJUST SD MANHOLE COVER TO GRADE
-  2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
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-  4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
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-  6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
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-  9 ADJUST CATV BOX TO GRADE (BY OWNER)
-  10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
-  11 ADJUST GAS VALVE TO GRADE (BY OWNER)
-  12 ADJUST TEL. BOX (BY OWNER)
-  13 ADJUST CITY OWNED PULLBOX TO GRADE
-  14 ADJUST SS MANHOLE COVER TO GRADE

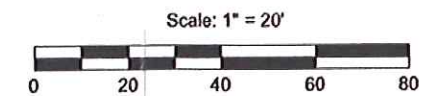
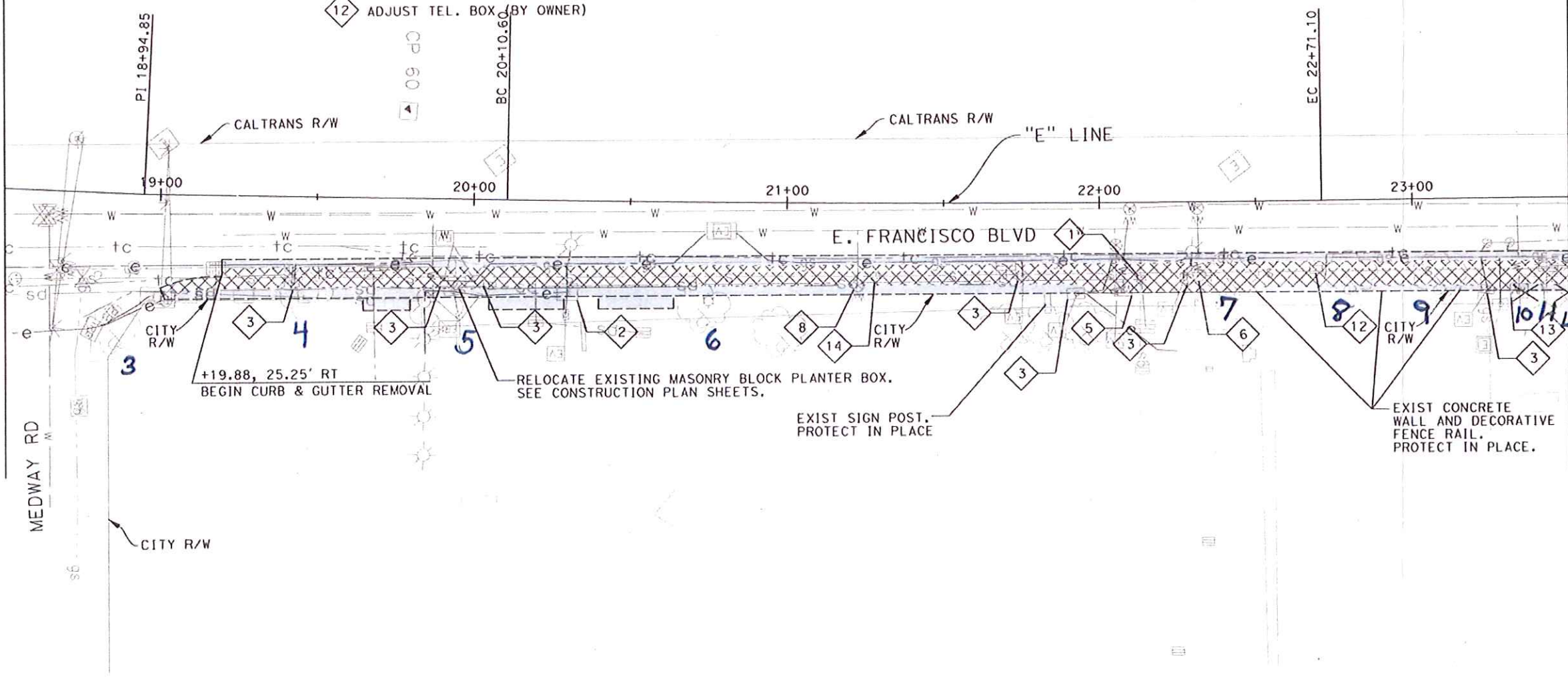
NOTES:

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2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
6. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.



MATCH LINE "E" 18+50 SEE SHEET D-1

MATCH LINE "E" 23+50 SEE SHEET D-3



DESIGNED	NO.	REVISION	BY	DATE
A. VALDIVOSERA				
DRAWN				
A. VALDIVOSERA				
CHECKED				
E. DE LA PAZ				
APPROVED				

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. BRIDGE

DRAWING NAME
DEMOLITION AND UTILITY PLAN
"E" 18+50 TO 23+50

SAN RAFAEL COUNTY OF MARTIN CALIFORNIA

JACOBS
180 PROMENADE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 929-3323
FAX (916) 929-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 11114
SHEET NO. D-2
DRAWING 6 OF 55

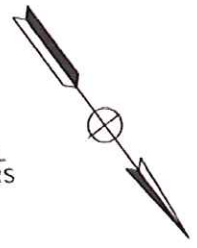
LEGEND:

- REMOVE PAVEMENT/ EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

- 1 ADJUST SD MANHOLE COVER TO GRADE
- 2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 5 ADJUST WATER METER TO GRADE (BY OWNER)
- 6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 8 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 9 ADJUST CATV BOX TO GRADE (BY OWNER)
- 10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 11 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 12 ADJUST TEL. BOX (BY OWNER)
- 13 ADJUST CITY OWNED PULLBOX TO GRADE
- 14 ADJUST SS MANHOLE COVER TO GRADE

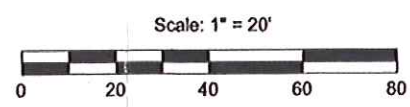
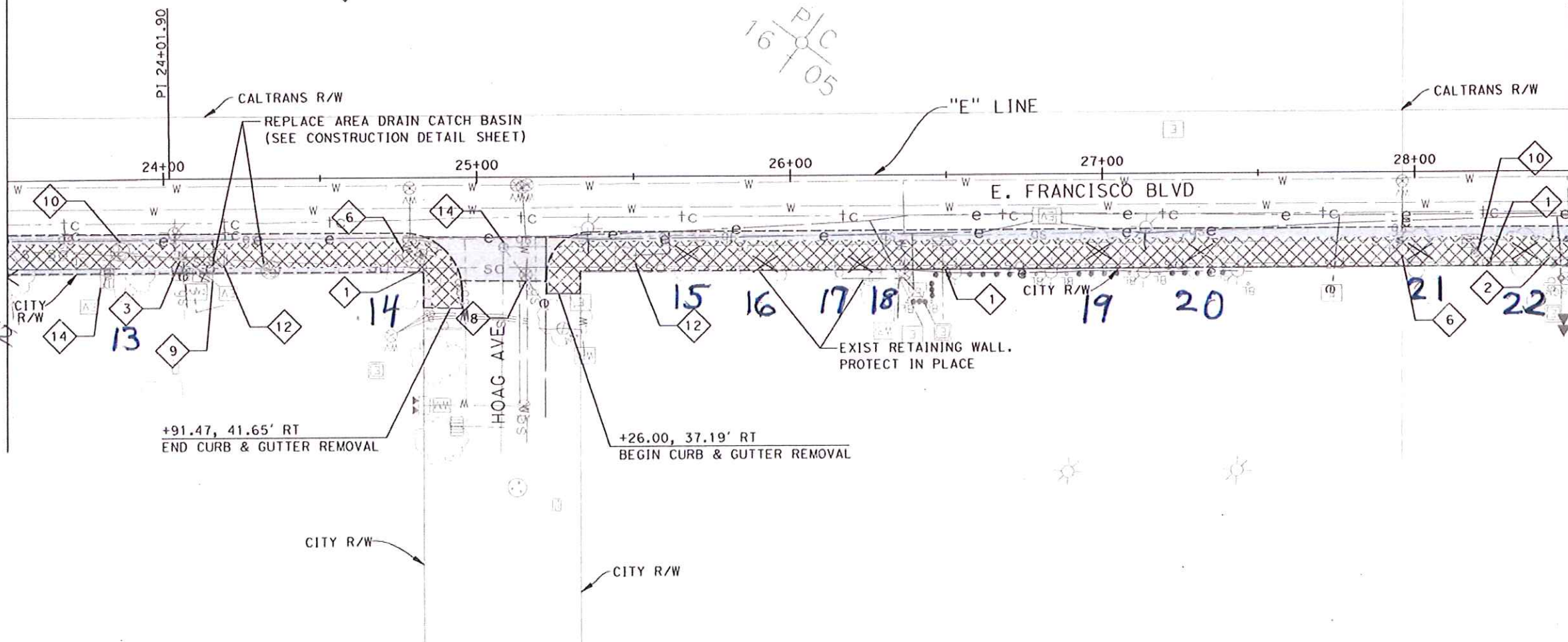
NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.



MATCH LINE "E" 23+50 SEE SHEET D-2

MATCH LINE "E" 28+50 SEE SHEET D-4



DESIGNED	NO. REVISION	BY	DATE
A. VALDIVOSERA			
DRAWN			
A. VALDIVOSERA			
CHECKED			
E. DE LA PAZ			
APPROVED			

PROJECT NAME
EAST FRANCISCO BLVD.
 FROM VIVIAN ST. TO GRAND AVE. BRIDGE
 DRAWING NAME
DEMOLITION AND UTILITY PLAN
 "E" 23+50 TO 28+50
 SAN RAFAEL COUNTY OF MARIN, CALIFORNIA

JACOBS
 180 PROMENADE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/26/10
 PROJECT NO. 11114
 SHEET NO. D-3
 DRAWING 7 OF 55

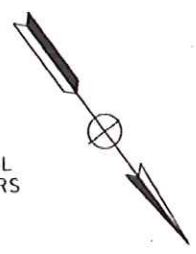
LEGEND:

- REMOVE PAVEMENT/ EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

- 1 ADJUST SD MANHOLE COVER TO GRADE
- 2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 5 ADJUST WATER METER TO GRADE (BY OWNER)
- 6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS) CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 8 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 9 ADJUST CATV BOX TO GRADE (BY OWNER)
- 10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 11 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 12 ADJUST TEL. BOX (BY OWNER)
- 13 ADJUST CITY OWNED PULLBOX TO GRADE
- 14 ADJUST SS MANHOLE COVER TO GRADE

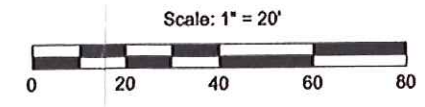
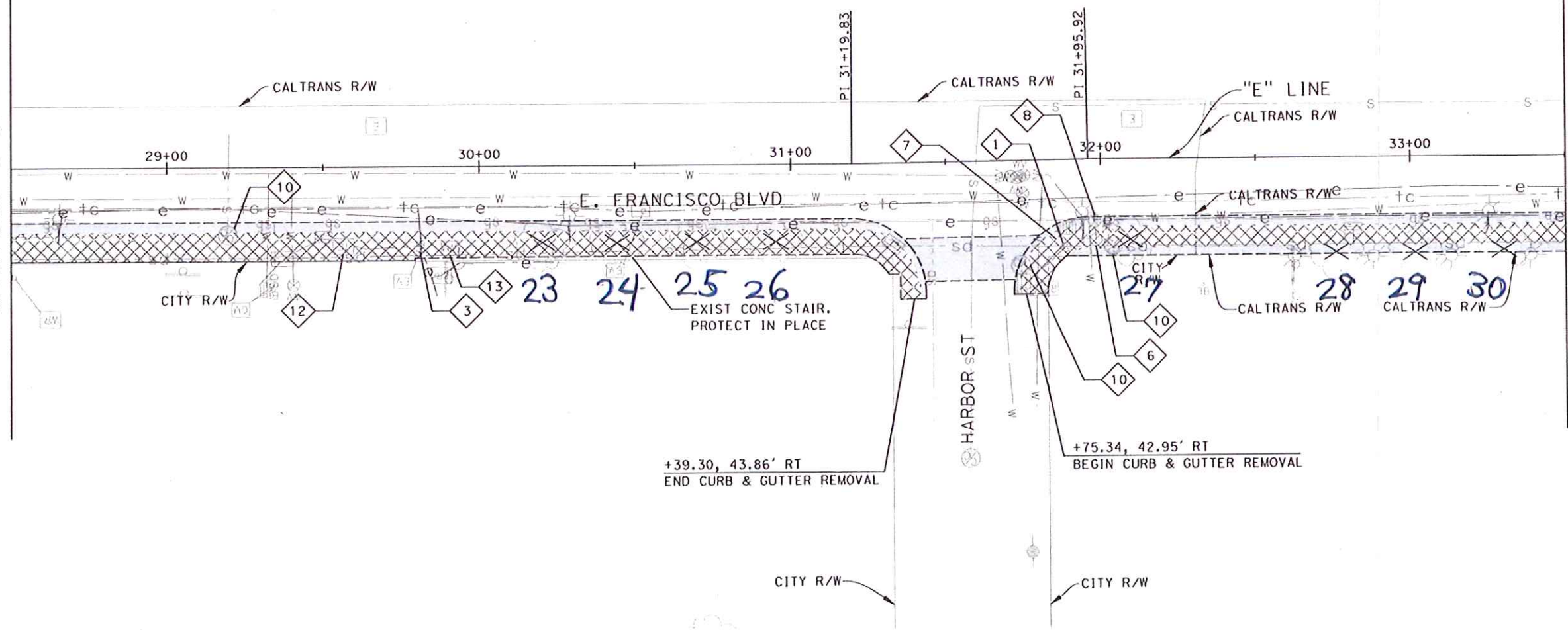
NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.



MATCH LINE "E" 28+50 SEE SHEET D-3

MATCH LINE "E" 33+50 SEE SHEET D-5



<p>DESIGNED NO. REVISION BY DATE</p> <p>A. VALDIVIESO</p> <p>DRAWN</p> <p>A. VALDIVIESO</p> <p>CHECKED</p> <p>E. DE LA PAZ</p> <p>APPROVED</p> <p>DATE</p>	<p>PROJECT NAME</p> <p>EAST FRANCISCO BLVD.</p> <p>FROM VIVIAN ST. TO GRAND AVE. BRIDGE</p> <p>DRAWING NAME</p> <p>DEMOLITION AND UTILITY PLAN</p> <p>DATE: 28+50 TO 33+50</p> <p>SAN RAFAEL COUNTY OF MARIN CALIFORNIA</p>	<p>JACOBS</p> <p>180 PROMENADE CIRCLE STE 300</p> <p>SACRAMENTO, CA 95834</p> <p>PHONE (916) 929-3323</p> <p>FAX (916) 929-1772</p>	<p>CITY OF SAN RAFAEL</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	<p>SCALE AS NOTED</p> <p>DATE 3/26/10</p> <p>PROJECT NO. 11114</p> <p>SHEET NO. D-4</p> <p>DRAWING 8 OF 55</p>
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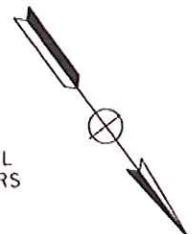
LEGEND:

- REMOVE PAVEMENT/ EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

- 1 ADJUST SD MANHOLE COVER TO GRADE
- 2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 5 ADJUST WATER METER TO GRADE (BY OWNER)
- 6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS) CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 8 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 9 ADJUST CATV BOX TO GRADE (BY OWNER)
- 10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 11 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 12 ADJUST TEL. BOX (BY OWNER)
- 13 ADJUST CITY OWNED PULLBOX TO GRADE
- 14 ADJUST SS MANHOLE COVER TO GRADE

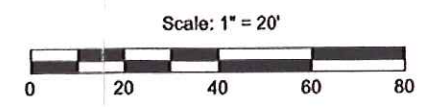
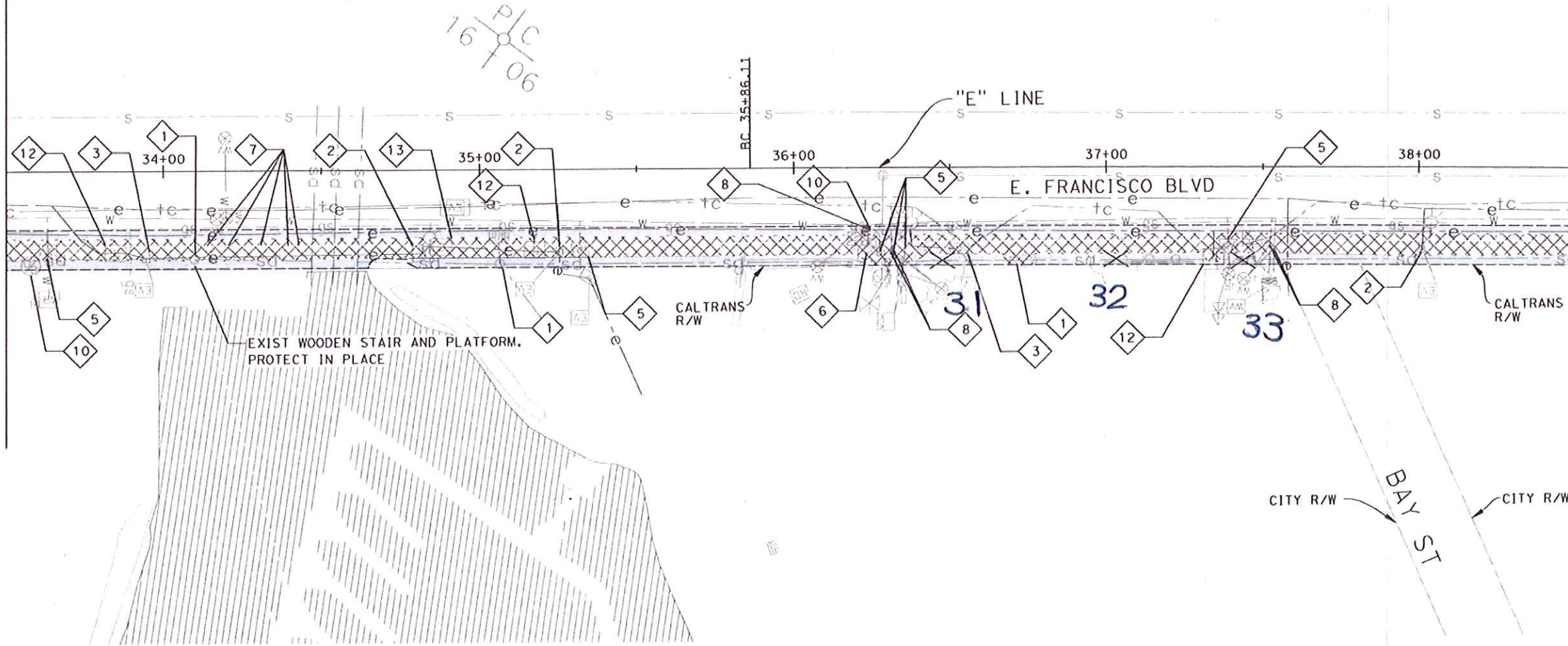
NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
6. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.







MATCH LINE "E" 33+50 SEE SHEET D-4















MATCH LINE "E" 38+50 SEE SHEET D-6



DESIGNED A. VALDERRERA DRAWN A. VALDERRERA CHECKED E. DE LA PAZ APPROVED DATE	PROJECT NAME EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE DRAWING NAME DEMOLITION AND UTILITY PLAN "E" 33+50 TO 38+50 SAN RAFAEL COUNTY OF MARIN, CALIFORNIA	PROJECT NO. 11114 SHEET NO. D-5 DRAWING OF 55	SCALE AS NOTED DATE 3/26/10 PROJECT NO. 11114 SHEET NO. D-5 DRAWING OF 55	<div style="text-align: center;"> <p>180 PROMENADE CIRCLE, STE 300 SACRAMENTO, CA 95834 PHONE (916) 929-3323 FAX (916) 929-1772</p> </div> <div style="text-align: center;"> <p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p> </div>
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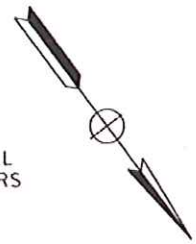
LEGEND:

-  REMOVE PAVEMENT/
EXCAVATION AREA
-  REMOVE CONCRETE SIDEWALK
CURB, GUTTER & DRIVEWAY
-  SAWCUT LINE
-  REMOVE TREE

-  1 ADJUST SD MANHOLE COVER TO GRADE
-  2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
-  3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
-  4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
-  5 ADJUST WATER METER TO GRADE (BY OWNER)
-  6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
-  7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
-  8 ADJUST WATER VALVE TO GRADE (BY OWNER)
-  9 ADJUST CATV BOX TO GRADE (BY OWNER)
-  10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
-  11 ADJUST GAS VALVE TO GRADE (BY OWNER)
-  12 ADJUST TEL. BOX (BY OWNER)
-  13 ADJUST CITY OWNED PULLBOX TO GRADE
-  14 ADJUST SS MANHOLE COVER TO GRADE

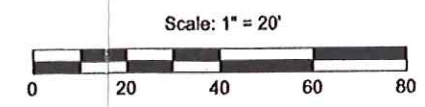
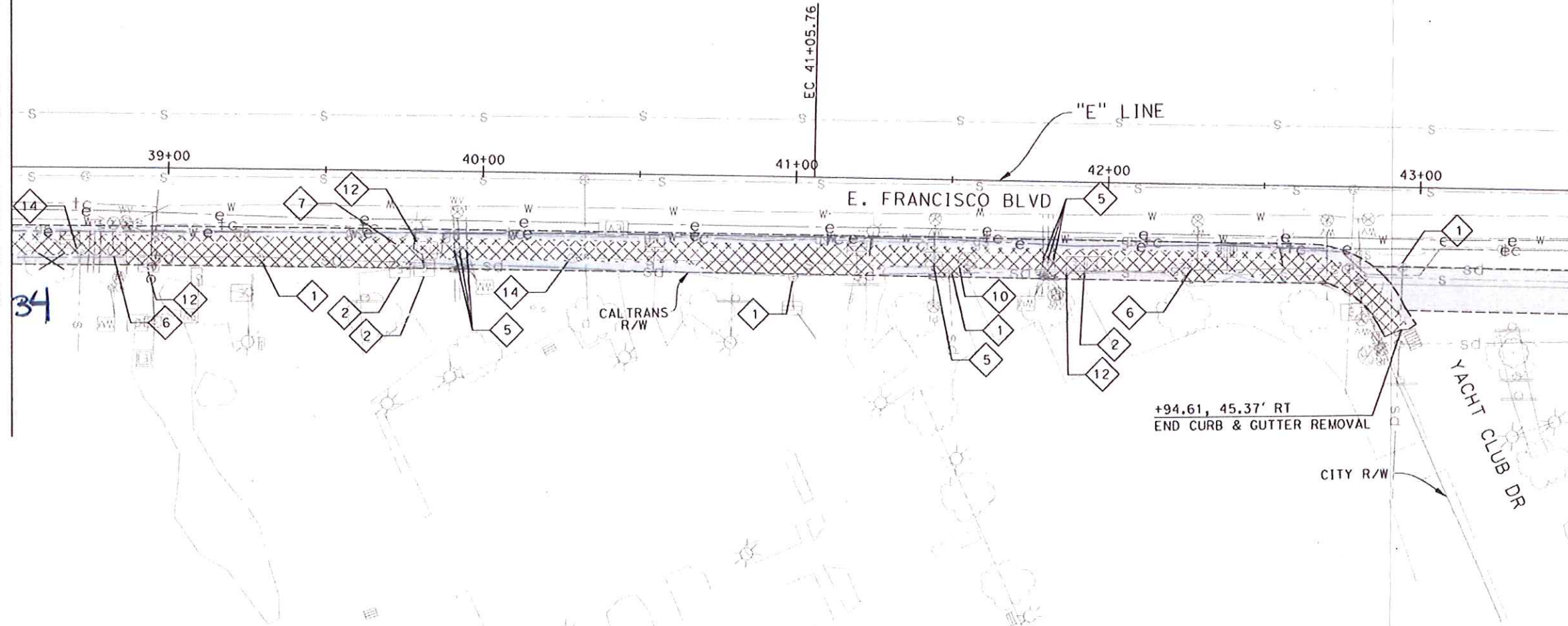
NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
6. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.



MATCH LINE "E" 38+50 SEE SHEET D-5

MATCH LINE "E" 43+50 SEE SHEET D-7



DESIGNED A. VALDERRERA DRAWN A. VALDERRERA CHECKED E. DE LA PAZ APPROVED DATE	PROJECT NAME EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE DRAWING NAME DEMOLITION AND UTILITY PLAN "E" 38+50 TO 43+50 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA	JACOBS 180 PROMENADE CIRCLE, STE 300 SACRAMENTO, CA 95834 PHONE (916) 929-3323 FAX (916) 929-1772	CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS	SCALE AS NOTED DATE 3/26/10 PROJECT NO. 11114 SHEET NO. D-6 DRAWING 100F 55	NO. REVISION BY DATE 1 2 3 4 5 6 7 8 9 10 11 12 13 14
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LEGEND:

- REMOVE PAVEMENT/ EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

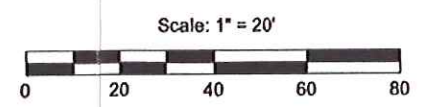
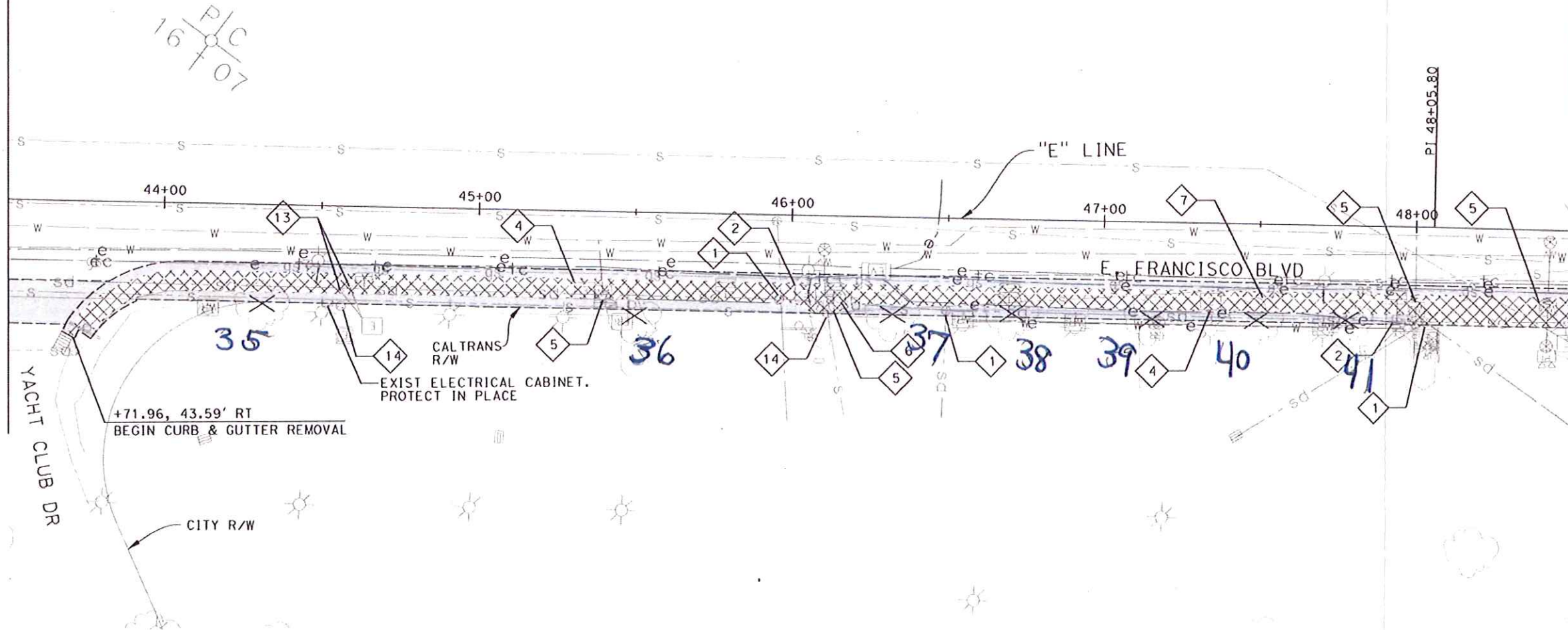
- 1 ADJUST SD MANHOLE COVER TO GRADE
- 2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 5 ADJUST WATER METER TO GRADE (BY OWNER)
- 6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS) CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 8 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 9 ADJUST CATV BOX TO GRADE (BY OWNER)
- 10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 11 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 12 ADJUST TEL. BOX (BY OWNER)
- 13 ADJUST CITY OWNED PULLBOX TO GRADE
- 14 ADJUST SS MANHOLE COVER TO GRADE

NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
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3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
6. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.





MATCH LINE "E" 43+50 SEE SHEET D-6















MATCH LINE "E" 48+50 SEE SHEET D-8



<p>DESIGNED BY: A. VALDERRERA DRAWN BY: A. VALDERRERA CHECKED BY: E. DE LA PAZ APPROVED BY: [Signature]</p>	<p>NO. REVISION BY DATE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>													<p>PROJECT NAME: EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE</p> <p>DRAWING NAME: DEMOLITION AND UTILITY PLAN FROM "E" 43+50 TO 48+50</p> <p>SAN RAFAEL COUNTY OF MARIN CALIFORNIA</p>
<p>JACOBS 180 PROMENADE CIRCLE, STE 300 SACRAMENTO, CA 95834 PHONE (916) 929-3323 FAX (916) 929-1772</p>														
<p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p>														
<p>SCALE AS NOTED DATE 3/26/10 PROJECT NO. 11114 SHEET NO. D-7 DRAWING 11 OF 55</p>														

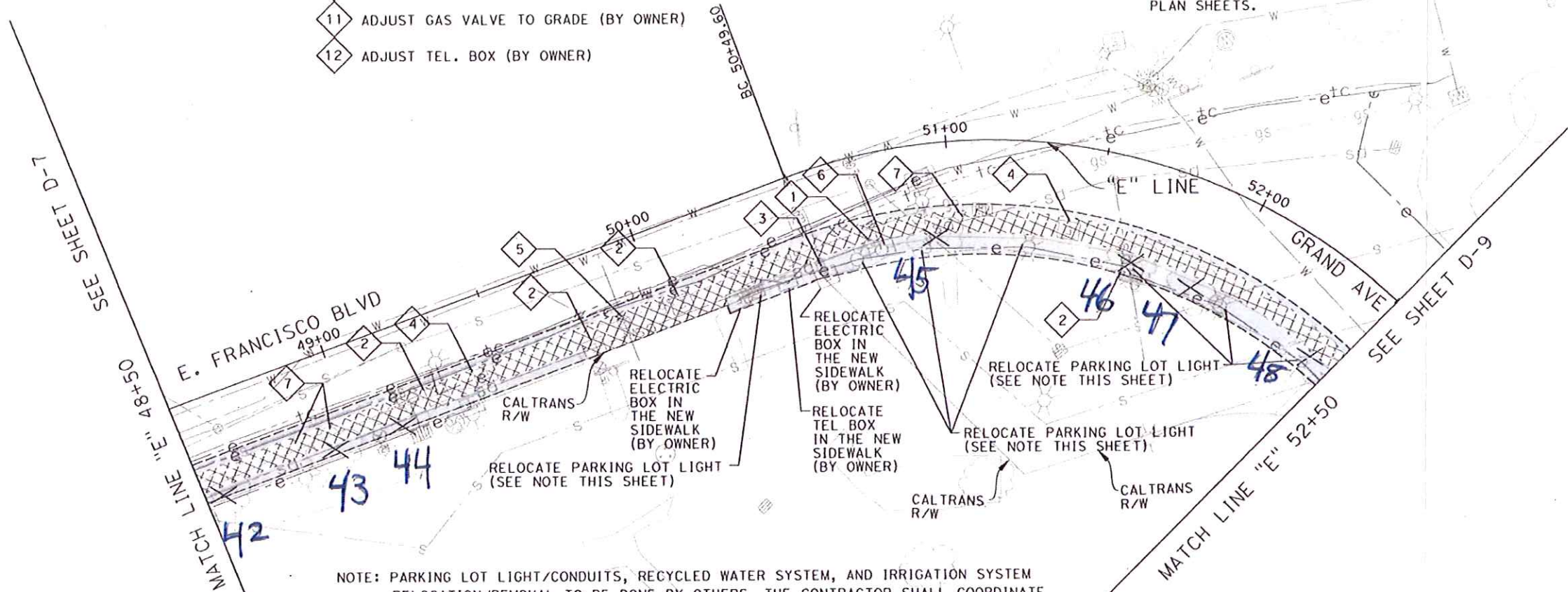
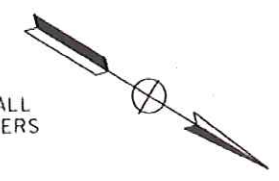
LEGEND:

-  REMOVE PAVEMENT/ EXCAVATION AREA
-  REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
-  SAWCUT LINE
-  REMOVE TREE

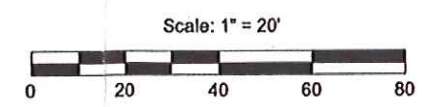
-  1 ADJUST SD MANHOLE COVER TO GRADE
-  2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
-  3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
-  4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
-  5 ADJUST WATER METER TO GRADE (BY OWNER)
-  6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
-  7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
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-  10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
-  11 ADJUST GAS VALVE TO GRADE (BY OWNER)
-  12 ADJUST TEL. BOX (BY OWNER)
-  13 ADJUST CITY OWNED PULLBOX TO GRADE
-  14 ADJUST SS MANHOLE COVER TO GRADE

NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
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3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
6. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.





















NOTE: PARKING LOT LIGHT/CONDUITS, RECYCLED WATER SYSTEM, AND IRRIGATION SYSTEM RELOCATION/REMOVAL TO BE DONE BY OTHERS. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS PRIOR TO REMOVAL AND RELOCATION.



<p>DESIGNED BY: A. VALDOSA DRAWN BY: A. VALDOSA CHECKED BY: E. DE LA PAZ APPROVED BY: [Signature]</p>	<p>NO. [] REVISION BY: [] DATE: []</p>	<p>PROJECT NAME: EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE</p> <p>DRAWING NAME: DEMOLITION AND UTILITY PLAN "E" 48+50 TO 52+50 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA</p>
<p>JACOBS 180 PROMENADE CIRCLE, STE 300 SACRAMENTO, CA 95834 PHONE (916) 929-3323 FAX (916) 929-1772</p>		
<p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p>		
<p>SCALE AS NOTED DATE 3/26/10 PROJECT NO. 11114 SHEET NO. D-8 DRAWING 12 OF 55</p>		

LEGEND:

-  REMOVE PAVEMENT/ EXCAVATION AREA
-  REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
-  SAWCUT LINE
-  REMOVE TREE

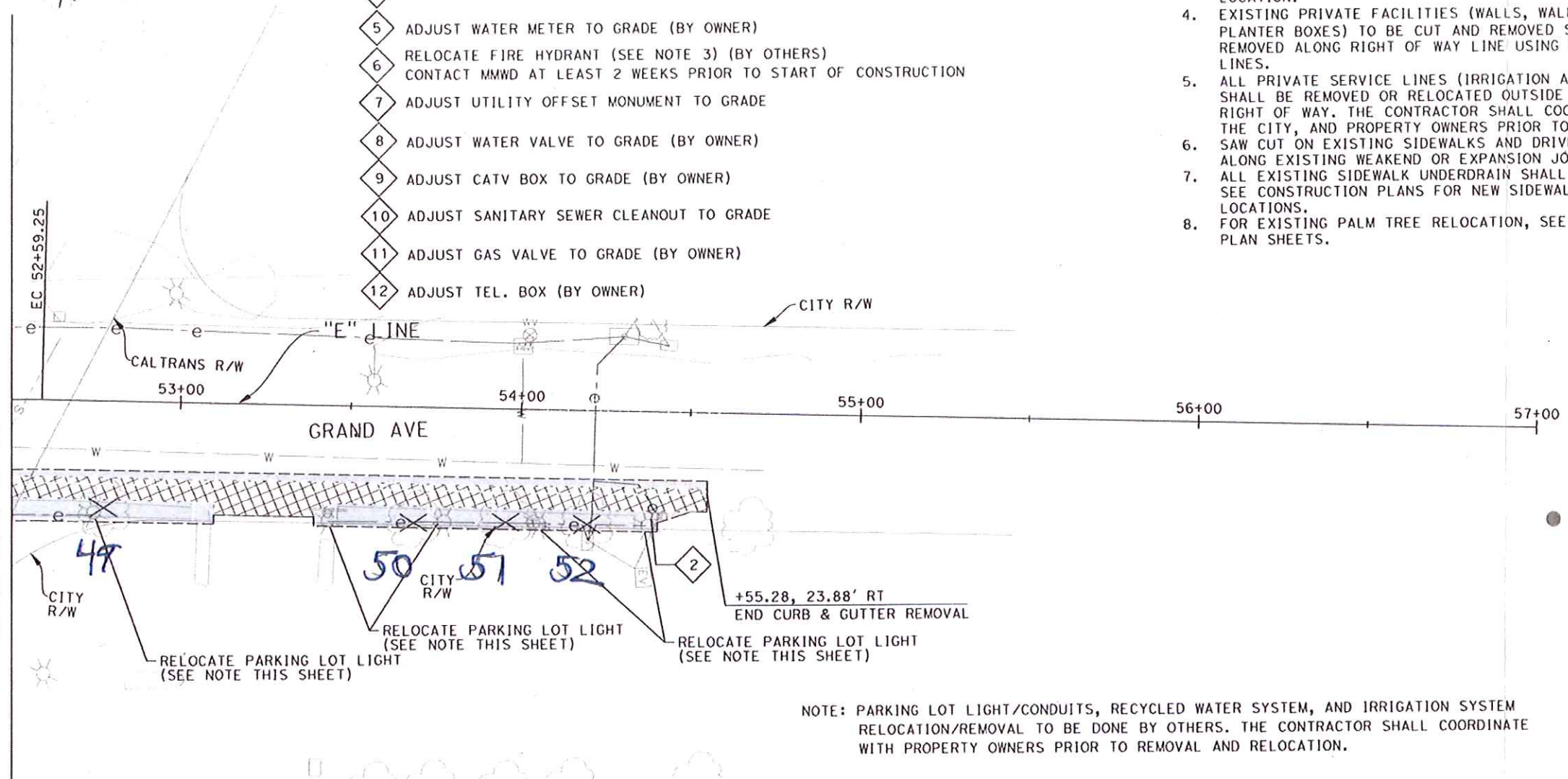
-  1 ADJUST SD MANHOLE COVER TO GRADE
-  2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
-  3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
-  4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
-  5 ADJUST WATER METER TO GRADE (BY OWNER)
-  6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
-  7 ADJUST UTILITY OFFSET MONUMENT TO GRADE
-  8 ADJUST WATER VALVE TO GRADE (BY OWNER)
-  9 ADJUST CATV BOX TO GRADE (BY OWNER)
-  10 ADJUST SANITARY SEWER CLEANOUT TO GRADE
-  11 ADJUST GAS VALVE TO GRADE (BY OWNER)
-  12 ADJUST TEL. BOX (BY OWNER)
-  13 ADJUST CITY OWNED PULLBOX TO GRADE
-  14 ADJUST SS MANHOLE COVER TO GRADE

NOTES:

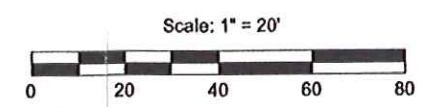
1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
3. FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
4. EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
5. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKEND OR EXPANSION JOINT ONLY.
7. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
8. FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.



MATCH LINE "E" 52+50 SEE SHEET D-8



NOTE: PARKING LOT LIGHT/CONDUITS, RECYCLED WATER SYSTEM, AND IRRIGATION SYSTEM RELOCATION/REMOVAL TO BE DONE BY OTHERS. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS PRIOR TO REMOVAL AND RELOCATION.



<p>DESIGNED BY: A. VALDIOERA DRAWN BY: A. VALDIOERA CHECKED BY: E. DE LA PAZ APPROVED BY: _____</p>	<p>NO. _____ REVISION BY: _____ DATE: _____</p>	<p>PROJECT NAME: EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE</p> <p>DRAWING NAME: DEMOLITION AND UTILITY PLAN "E" 52+50 TO 57+00</p> <p>SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA</p>
<p>JACOBS 180 PROMENADE CIRCLE, STE 300 SACRAMENTO, CA 95834 PHONE (916) 929-3323 FAX (916) 929-1772</p>		
<p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p>		
<p>SCALE AS NOTED DATE 3/26/10 PROJECT NO. 11114 SHEET NO. D-9 DRAWING 130F 55</p>		

Attachment C
Representative Photos

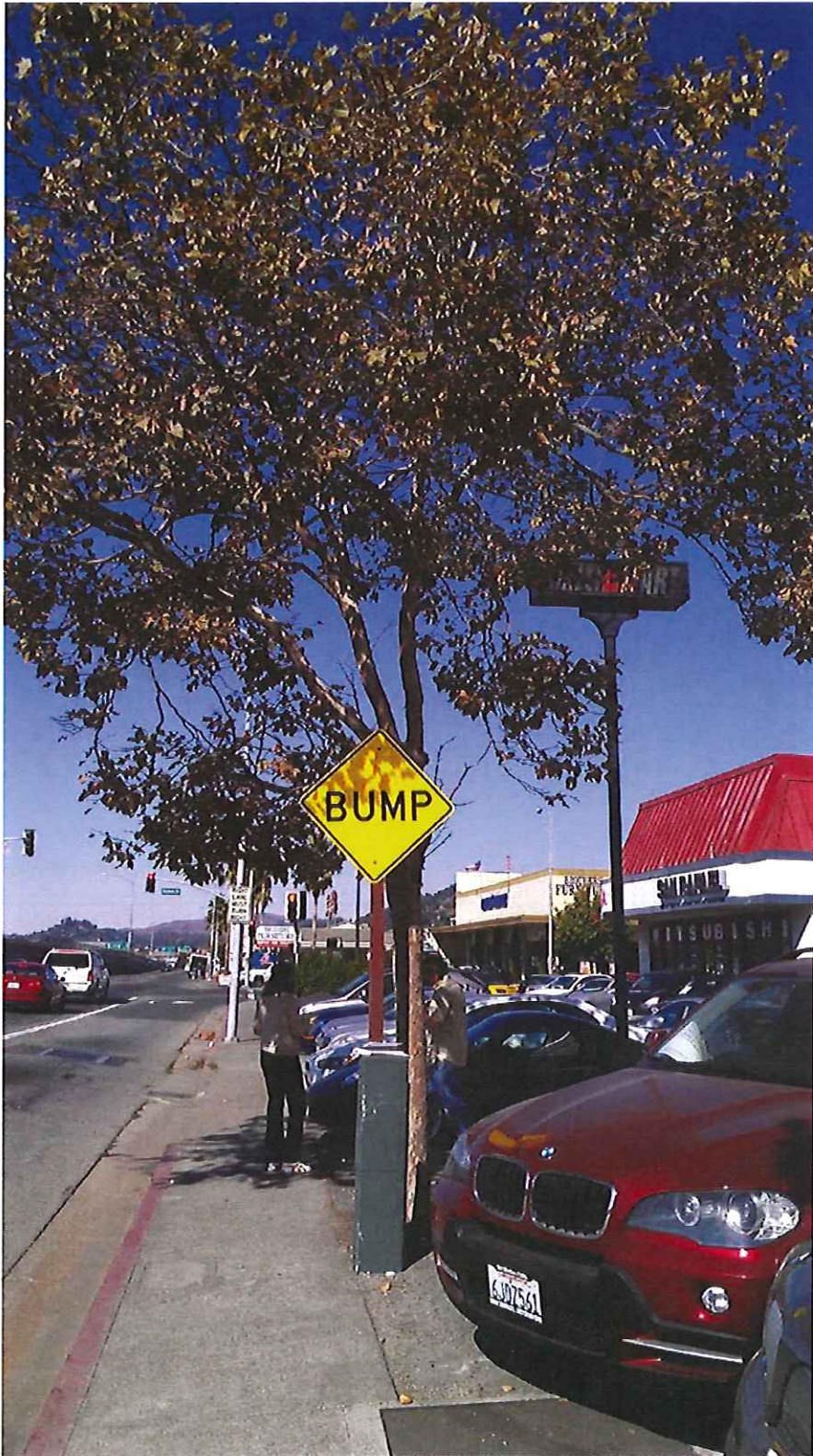


Photo 1. American sycamore (*Platanus occidentalis*)



Photo 2. Washington fan palm (*Washingtonia robusta*)



Photo 3. Mexican Alvaradoa (*Alvaradoa amorphoides*)

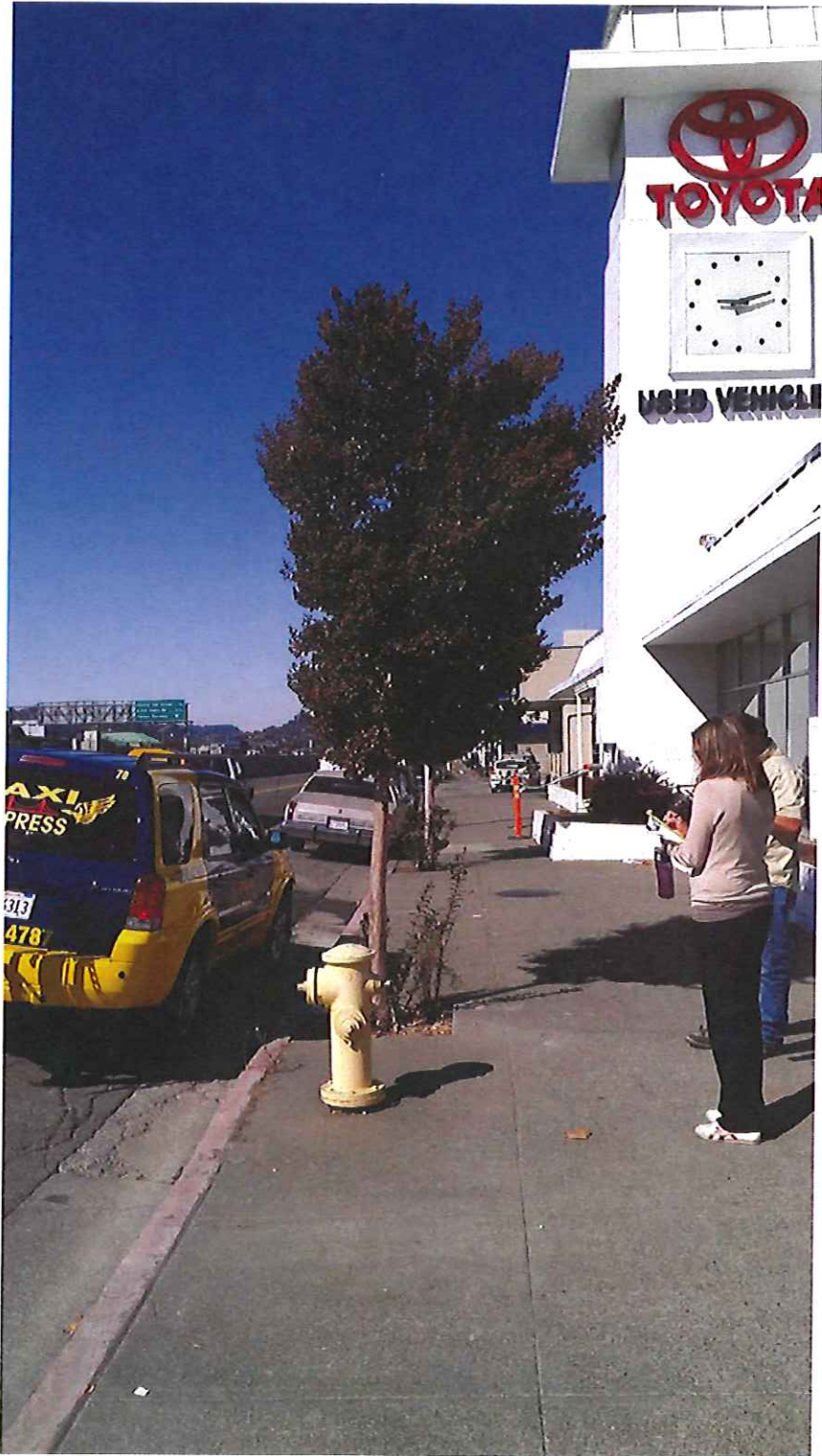


Photo 4. Tree sparkleberry (*Vaccinium arboreum*)

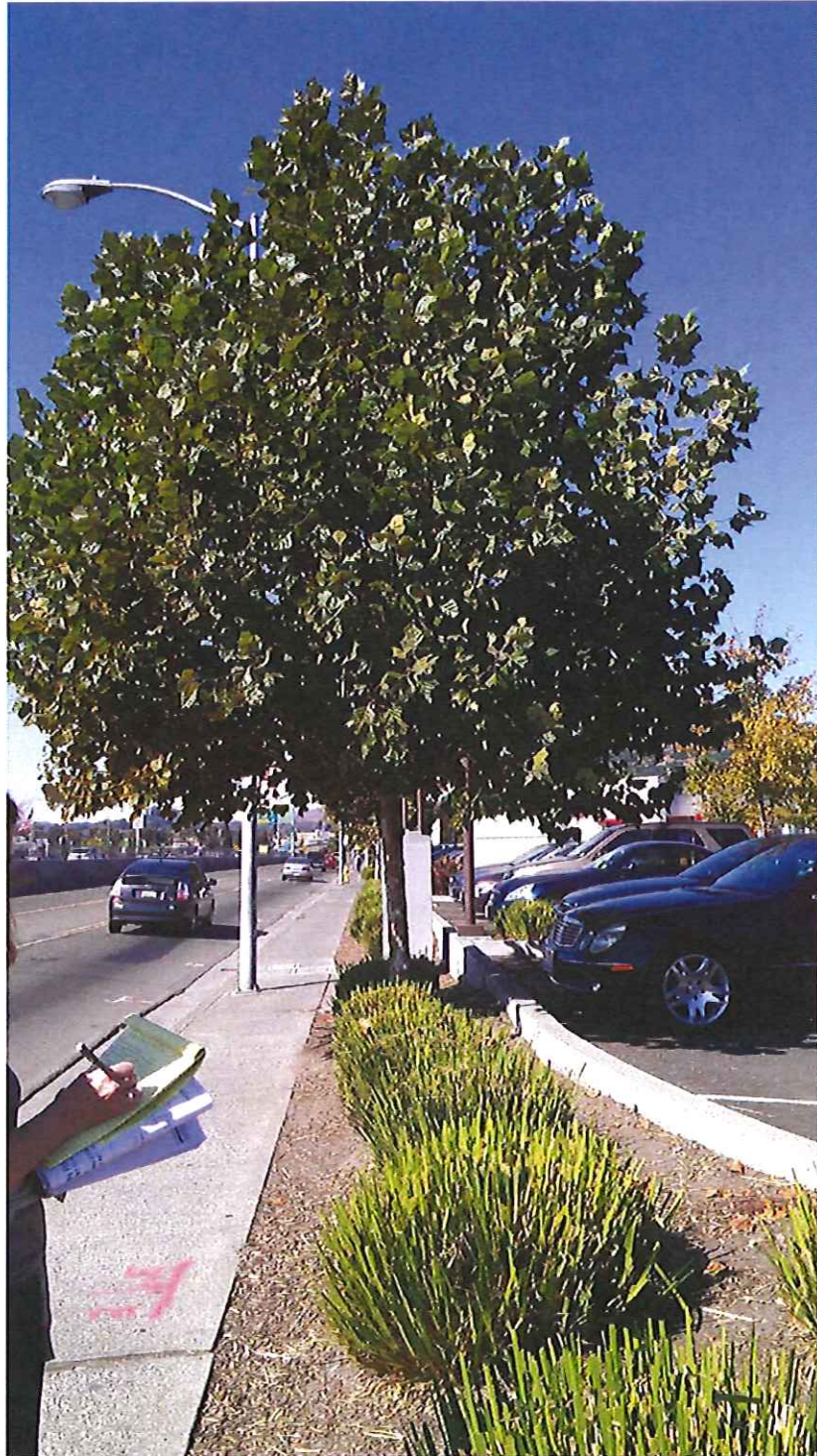


Photo 5. London Plane (*Platanus acerifolia*)

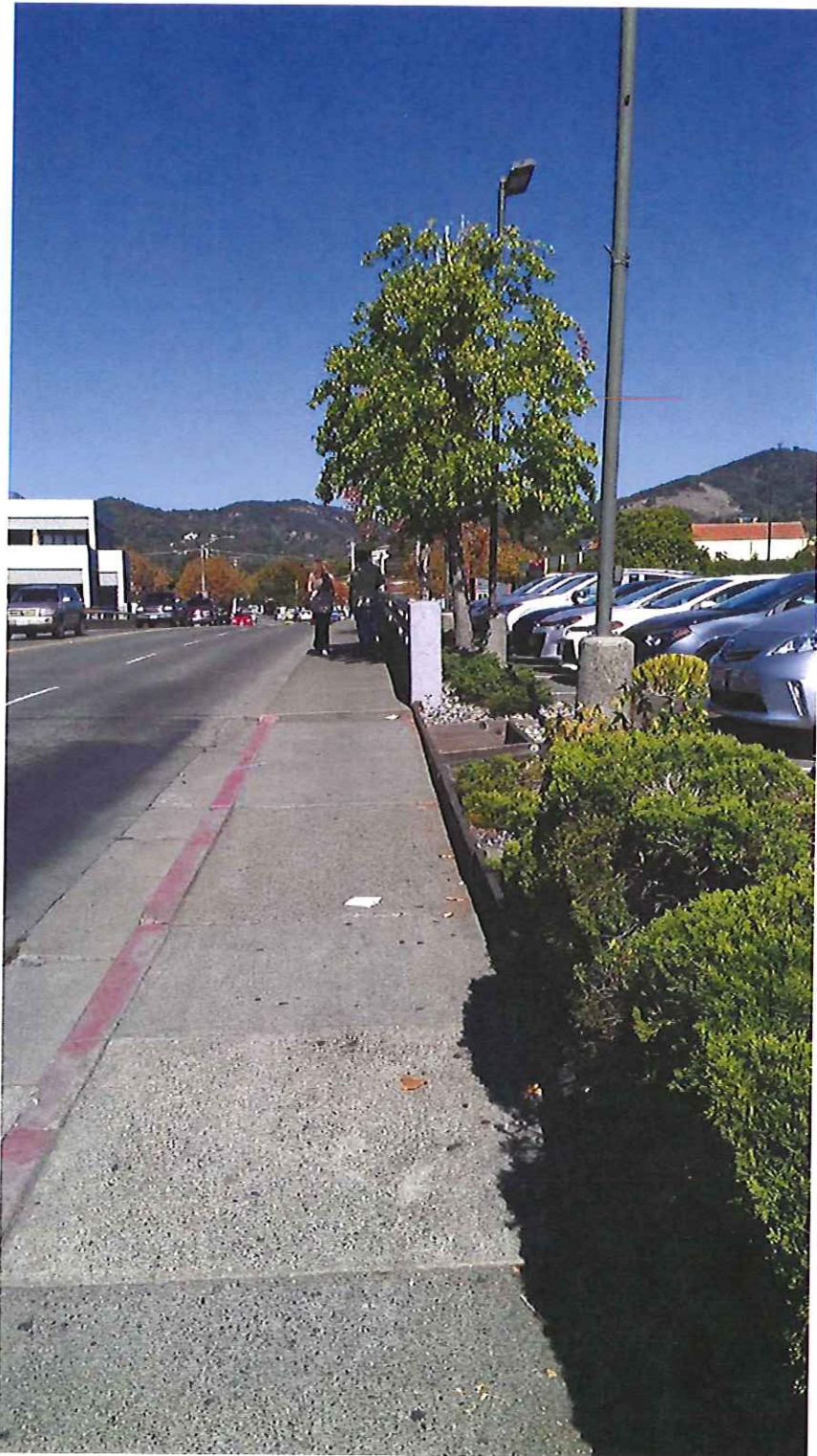


Photo 6. Sweetgum (*Liquidambar styraciflua*)

HISTORIC PROPERTY SURVEY REPORT**1. UNDERTAKING DESCRIPTION AND LOCATION**

<i>District</i>	<i>County</i>	<i>Federal Project Number. (Prefix, Agency Code, Project No.)</i>	<i>Location</i>
4	Marin	NMTPL-5043(027)	Francisco Boulevard East

Project Description:

The proposed project is located in Caltrans District 4, Marin County, on Francisco Boulevard East adjacent to Highway 101 in the City of San Rafael, California. The project spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements are proposed to pedestrian and bicycle lanes, which include the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signage, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

2. AREA OF POTENTIAL EFFECTS

The Area of Potential Effects (APE) for the project was established in consultation with Maureen Zogg, MA, Associate Environmental Planner—Archaeology, and Chien Wu, Project Manager/Local Assistance Engineer, on November 5, 2013. The APE map is located in Attachment 1 in this Historic Property Survey Report.

The APE is 0.86 acres. The proposed project would result in surface disturbance within a relatively narrow (9.5 foot wide) construction corridor. The installation of sidewalks, curb, gutter, ADA-compliant curb ramps and landscaping would involve the removal of existing construction and the existing storm drain system will be modified and street lights and retaining walls installed. All direct permanent and temporary impacts, including construction activities and staging, would occur within the direct project impact area. Ground disturbance will occur to a maximum depth of ten (10) feet.

Specific excavations depths are as follows: street and retaining wall, 10 inches; lights, 3 to 7 feet (this is based on the Caltrans standard plan specifications for lighting- ES-7n); and tree wells, 3 to 4 feet, variable as this is based on the size of the root ball of the trees. Additional sub excavation of up to 2 feet is acceptable for compaction in areas with very wet soils for the street, retaining wall, gutter, sidewalk curb, and storm drain. Since this is a low lying area, at least some sub excavation seems likely. The storm drain replacement upgrades will use the current alignment within the construction corridor.

3. CONSULTING PARTIES / PUBLIC PARTICIPATION**X** Native American Tribes, Groups and Individuals

CH2M HILL contacted the NAHC on October 16, 2013. The NAHC responded on October 18, 2013 with a list of interested individuals and groups. Several of the parties on the list have previously indicated a preference to be contacted only by Caltrans and were not contacted by CH2M HILL. All of the individuals/groups listed on the NAHC list were contacted by letter on November 1, 2013. A follow up phone call was made on December 17, 2013 to Ya-Ka-Ama, the only contact not directly consulting with Caltrans. See Attachment 3 for the record of NAHC correspondence.

Gene Bouvlot of the Federated Indians of the Graton Rancheria responded directly to Caltrans indicating a preference to correspond with Caltrans directly. Further contacts from this group were directed to Maureen Zogg of Caltrans. The Federated Indians of the Graton Rancheria (letter dated November 24, 2013 from Nick Tipon) asked for additional information on the depth of excavations and the dimensions of the APE to address concerns about the potential for the discovery of

HISTORIC PROPERTY SURVEY REPORT

unknown buried cultural deposits within the project APE. CH2M HILL provided the requested information by letter dated December 11, 2013 directly to Nick Tipon of the Federated Indians of Graton Rancheria (Tribe). The Tribe, by letter dated December 27, 2013, requested subsurface testing of the APE to determine potential impacts to subsurface cultural deposits. CH2M HILL provided additional information from previous studies for the Tribe to Maureen Zogg of Caltrans by e-mail on January 23, 2014. The Tribe reviewed the additional information provided by Caltrans and confirmed by e-mail that their concerns had been sufficiently addressed on January 24, 2014.

- Ya-Ka-Ama
7465 Steve Olsen Lane
Forestville, CA 95436
- Frank Ross, Gene Buvelot, Nick Tipon and Greg Sarris
The Federated Indians of Graton Rancheria
6400 Redwood Drive, Suite 300
Rohnert Park, CA 94928

X Native American Heritage Commission

- The Native American Heritage Commission (NAHC) was contacted by CH2M HILL on October 16, 2013 to request a Sacred Lands File Search that included information about traditional cultural properties such as cemeteries and sacred places within the APE. The NAHC responded on October 18, 2013, and indicated that a record search of the NAHC Sacred Lands File failed to indicate the presence of Native American sacred places/sites in the area. The NAHC also provided a list of Native Americans interested in consulting on development projects.

4. SUMMARY OF IDENTIFICATION EFFORTS

- | | | |
|----------|--|---|
| X | National Register of Historic Places | Month & Year: 1979-2002 & supplements |
| X | California Register of Historical Resources | Year: 1992 & supplemental information to date |
| X | California Inventory of Historic Resources | Year: 1976 |
| X | California Historical Landmarks | Year: 1995 & supplemental information to date |
| X | California Points of Historical Interest | Year: 1992 & supplemental information to date |
| X | State Historic Resources Commission | Year: 1980-present, minutes from quarterly meetings |
| X | Archaeological Site Records | |
| | <ul style="list-style-type: none"> • CH2M HILL received the literature search for the current survey from the CHRIS at the North West Information Center, Rohnert Park California on October 11, 2013. A 0.5-mile buffer zone around the project area was included in this search. | |
| X | Other sources consulted [<i>e.g., historical societies, city archives, etc. List names and dates below</i>] | |
| | <ul style="list-style-type: none"> • 1897 Mount Tam, California 15' USGS topographic quadrangle map • 1941 Mount Tam, California 15' USGS topographic quadrangle map • 1947 Mount Tam, California 15' USGS topographic quadrangle map • 1950 Mount Tam, California 15' USGS topographic quadrangle map | |

HISTORIC PROPERTY SURVEY REPORT

- 1954 San Rafael, California 7.5' USGS topographic quadrangle map
- Native American Consultation, See Attachment 3
- Pratt, Jared J. and Lyle E. Lewis, 2005. Geotechnical Investigation, Medway Road Pavement and Drainage Improvement. San Rafael, CA. Kleinfelder Inc. San Rafael, California

X Results:

Neither the literature search nor the pedestrian survey identified any cultural resources within the APE. See Attachment 2, the ASR, for additional information.

5. PROPERTIES IDENTIFIED

X No cultural resources are present within the project APE.

6. HPSR to District File

X Caltrans, in accordance with Section 106 Programmatic Agreement Stipulation VIII, has determined that there are no cultural resources present in the APE and/or there are properties within the APE that **are exempt from evaluation**; see Section 5.

7. HPSR to SHPO

X Not applicable.

8. HPSR to CSO

X Not applicable.

9. Findings for State-Owned Properties

X Not applicable.

10. CEQA Considerations

X Not applicable.

11. List of Attached Documentation

(Provide the author/date and peer reviewer/date of the technical report. Delete this instruction line and documentation that is not applicable.)

- X** Project Vicinity, Location, and APE Maps (Attachment 1)
- X** Archaeological Survey Report (ASR)
 - Lawson and Reid, 2013. Draft Archaeological Survey Report, Francisco Boulevard East Improvements, Phase II, NMTPL 5043 (027)
- X** Other (Specify below)
 - Record of Native American consultation (Attachment 3)

12. HPSR Preparation and Caltrans Approval

Prepared by: (sign on line)

Consultant /
discipline:

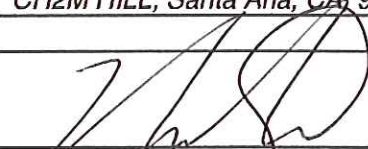
Affiliation

Reviewed for approval
by: (sign on line)

District 4 Caltrans



PQS Level, Principal Investigator, Prehistoric
Archaeology
CH2M HILL, Santa Ana, CA, 92707



[PQS certification level]

5-12-2014

Date

MAY 15/14

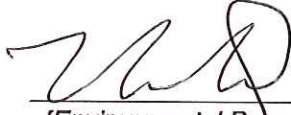
Date

HISTORIC PROPERTY SURVEY REPORT

PQS discipline/level:

Approved by: (sign on line)

District 7 EBC:



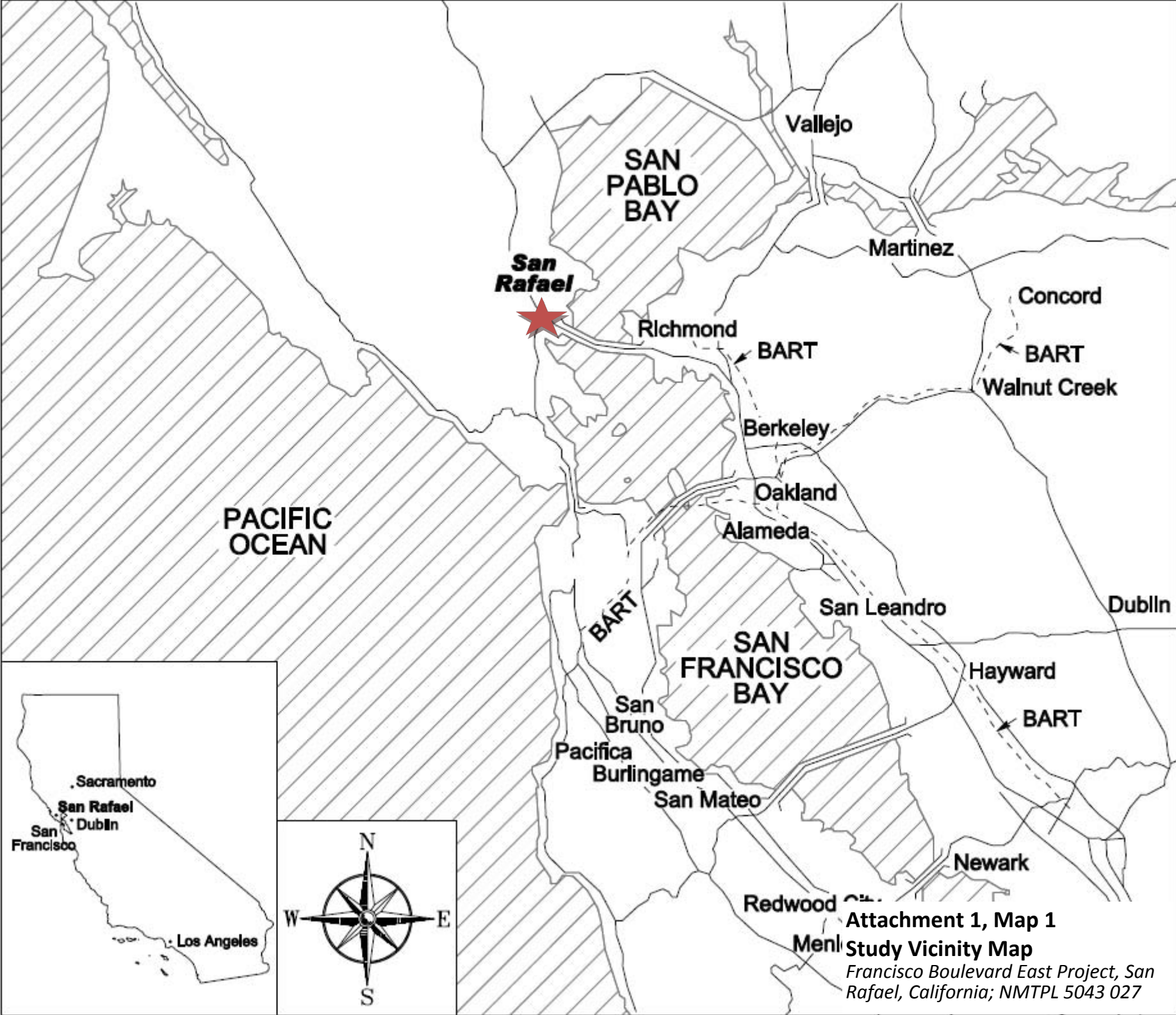
[Environmental Branch name]

Point Stewart

EBC

May 15, 2014

Date



San Rafael

SAN PABLO BAY

Vallejo

Martinez

Concord

Richmond

BART

BART

Walnut Creek

PACIFIC OCEAN

Berkeley

Oakland

Alameda

BART

San Leandro

Dublin

SAN FRANCISCO BAY

Hayward

BART

San Bruno

Pacifica

Burlingame

San Mateo

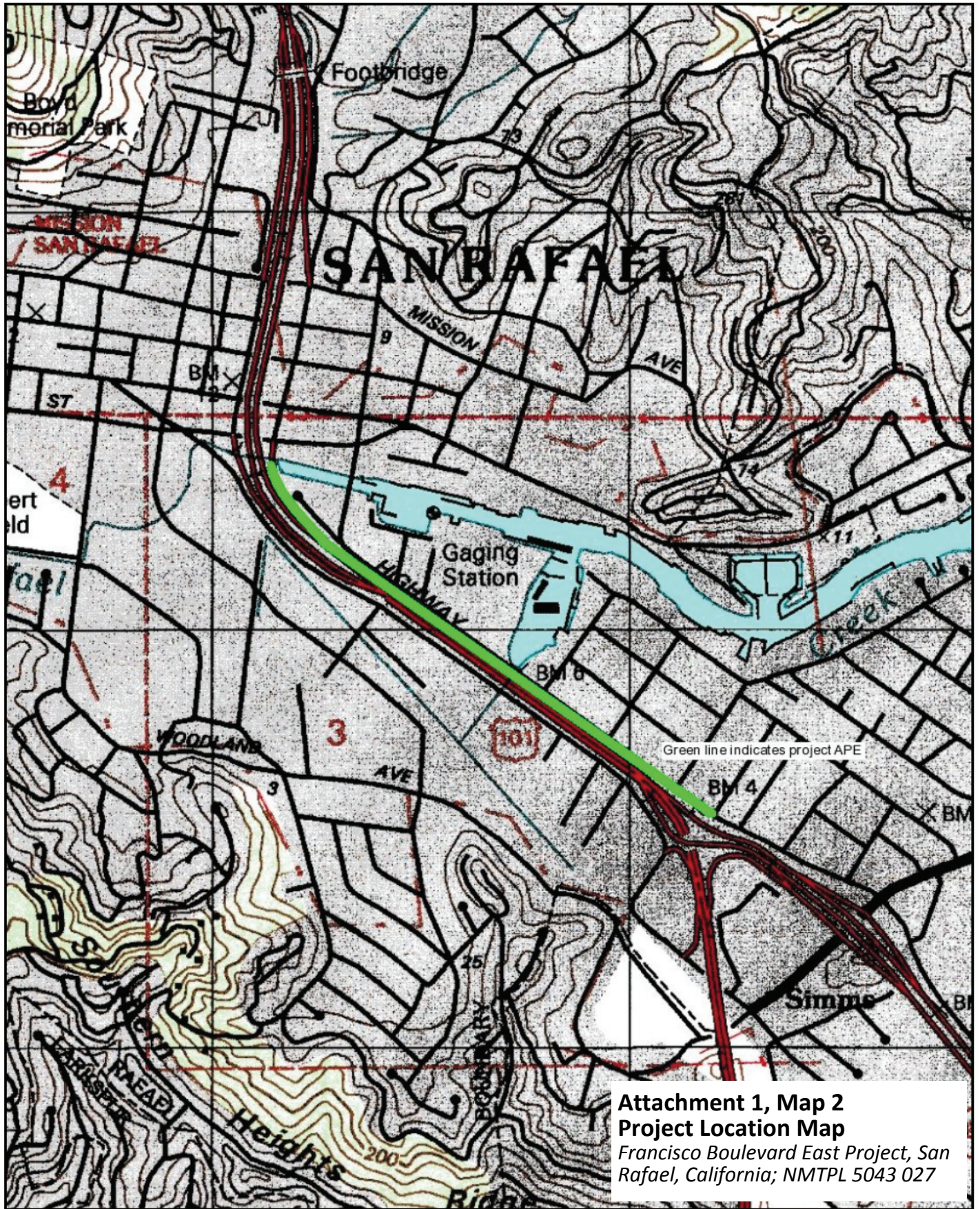
Newark

Redwood City

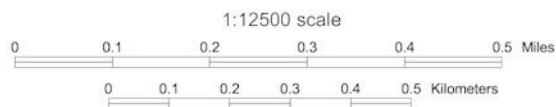


Attachment 1, Map 1
Study Vicinity Map

Francisco Boulevard East Project, San Rafael, California; NMTPL 5043 027

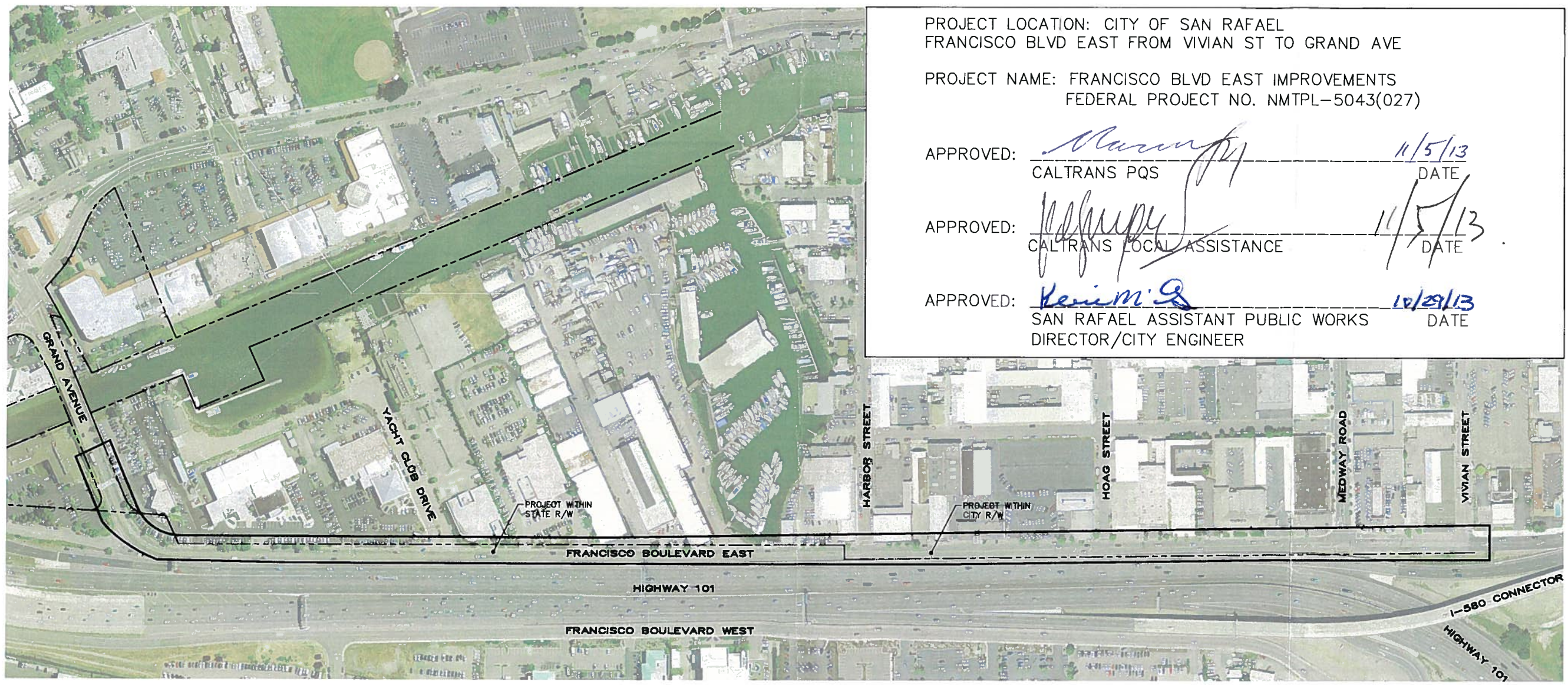


Universal Transverse Mercator (UTM) Projection Zone 10
 North American Datum of 1983



GN
 TN 0°
 MN 14°
 Magnetic declination of 14E at center of map
 on March 17, 2011

Oct 28, 2013 - 12:08pm - USER: huntley
Z:\16 Streets\16.01 Construction Projects\16.01 NTPP Francisco Blvd. East\Design\Environmental Materials\APE Map.dwg



PROJECT LOCATION: CITY OF SAN RAFAEL
FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE

PROJECT NAME: FRANCISCO BLVD EAST IMPROVEMENTS
FEDERAL PROJECT NO. NMTPL-5043(027)

APPROVED: *[Signature]* 11/5/13
CALTRANS PQS DATE

APPROVED: *[Signature]* 11/5/13
CALTRANS LOCAL ASSISTANCE DATE

APPROVED: *[Signature]* 10/29/13
SAN RAFAEL ASSISTANT PUBLIC WORKS DATE
DIRECTOR/CITY ENGINEER

AREA OF POTENTIAL EFFECTS
NON-MOTORIZED TRANSPORTATION PILOT PROGRAM
FRANCISCO BLVD EAST IMPROVEMENTS-PHASE II
SCALE: 1"=300'

LEGEND

- AREA OF POTENTIAL EFFECTS
- APPROXIMATE CITY/STATE RIGHT OF WAY



CITY OF SAN RAFAEL
DEPARTMENT OF
PUBLIC WORKS

DEPARTMENT OF TRANSPORTATION

111 Grand Avenue
P.O. Box 23660
Oakland, CA 94623-0660
Tel: (510) 286-6371

RECEIVED**MAR 13 2013****PUBLIC WORKS DEPT.
CITY OF SAN RAFAEL**

*Flex your power!
Be energy efficient!*

March 11, 2013

Leslie Blomquist
111 Morphew Street
San Rafael, CA 94901

Your ref: NMTPL 5043 (027) Francisco Boulevard East Improvements

Dear Mrs. Blomquist:

Our office is in receipt of the Cultural Resources assessment on the Section 106 requirements for the Francisco Boulevard East Improvements project and has signed the Preliminary Environmental Studies (PES) Form. Similarly, the District Local Assistance Engineer (DLAE) and the Environmental Planner Designee have affixed their signatures to the document. The environmental scoping is therefore complete.

The following studies are required as per the PES:

Studies needed:

1. Equipment Staging Technical Memorandum
2. Traffic – Traffic Technical Memorandum (traffic handling, parking removal, moving traffic pole info.)
3. Air Quality – send email from MTC which confirms Task Force PM 2.5 finding
4. Hazardous Material - Hazardous Materials Technical Memorandum (thermoplastic striping)
5. Water Quality/Resources – Water Quality Technical Memorandum (BMPs)
6. Floodplain – Location Hydraulic Study & Summary Floodplain Encroachment Report
7. Biological Resources – Biological Technical Memorandum to include:
 - a. Tree removal/trimming information – describe the number, size, and type of tree removed/trimmed consistency with your local tree ordinance and compliance with the “Migratory Bird Treaty Act”
 - b. Water Quality (BMPs)
 - c. Construction staging
8. Relocation Impacts – Right of Way Information Technical Memorandum
9. Land Use and Community Impacts – Community Impacts Technical Memorandum (parking & driveways)
10. Cultural Resources – see copy attached requirements

Please prepare those studies at your earliest convenience and submit them to our office for review.

If you have any questions regarding this letter, please contact Hugo Ahumada (510) 622-8790.

Sincerely,

A handwritten signature in blue ink that reads "B. Deunert".

Boris Deunert, Ph.D.
Senior Environmental Planner
Office of Local Assistance

cc: LA files

Memorandum

*Flex your power!
Be energy efficient!*

To: BORIS DEUNERT
Senior Environmental Planner
Office of Local Assistance, District 4

Attn: Hugo Ahumada, Environmental Planner

From: MAUREEN ZOGG *MZ*
Local Assistance Archaeologist
Office of Local Assistance, District 4

Date: March 6, 2013

File: 04-MRN-0-SFR
NMTPL 5043 (027)
Francisco Boulevard
East Improvements

Subject: Section 106 review of the proposed Francisco Boulevard East Improvements project in the City of San Rafael, Marin County, California.

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East, from Vivian Street to Grand Avenue. Work will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The maximum depth of impacts will be 10 feet.

The California Department of Transportation (Caltrans), acting as the lead agency under the delegated authority of the Federal Highway Administration (FHWA), is providing the project oversight as federal funds are involved. Project documentation was reviewed by Caltrans' Professionally Qualified Staff (PQS) Maureen Zogg, Co-Principal Investigator—Prehistoric Archaeology and Douglas Bright, Caltrans Office of Cultural Resource Studies' Architectural Historian, in compliance with the January 2004 *Programmatic Agreement Among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding Compliance with Section 106 of the National Historic Preservation Act, as it Pertains to the Administration of the Federal-Aid Highway Program in California* (PA). A copy of the PA can be found at the Division of Environmental Analysis website: <http://www.dot.ca.gov/hq/env/cultural/index.htm>.

While there are no concerns with built resources in the area, given the type of work planned, this undertaking is considered to have the potential to affect archaeological properties; therefore the following documents should be prepared for compliance with Section 106 of the PA. Guidance for completing these documents may be found online at Caltrans' Standard Environmental Reference website: <http://www.dot.ca.gov/ser/vol2/volv2.htm>.

Area of Potential Effects (APE) Map

This map depicts the area that will be affected by the project, including staging areas, utility relocation, temporary bridges, right-of-way acquisition, and temporary construction easements. The map should be plotted on an aerial photographic or other base at a scale of approximately

1"=200' or greater. A maximum size of 11"x17" is preferred, using multiple sheets as necessary for inclusion in the required reports listed below. The APE includes all areas of direct impact, including right-of-way acquisition or temporary easement for construction or detour. For Archaeology, this includes the vertical as well as the horizontal extent of the project work. The APE map should have a title block that includes the project name, federal ID number, and signature lines for the Caltrans PQS and Local Assistance Engineer, as well as the local agency representative. The APE map should be transmitted to Caltrans for signatures prior to the completion of the HPSR. A signed copy of the map will then be returned to the agency or its consultant for inclusion in the reports.

Historic Property Survey Report (HPSR)

The HPSR serves as a summary report to which the Archaeological Survey Report and Historic Resource Evaluation Report are attached. The HPSR also documents the consultation with interested parties, particularly Native American groups, and presents the project description and mapping. The standard HPSR form is available online at <http://pd.dot.ca.gov/env/cultural/html/I-templates.htm>.

Archaeological Survey Report (ASR)

This report is needed to document the studies undertaken to demonstrate the presence or absence of archaeological resources within the Archaeological APE. If resources are identified, they must be evaluated for their eligibility for listing on the National Register of Historic Places. A professionally-qualified archaeologist, as described in Attachment I of the PA, must complete this report. If there are no such resources present, the ASR Short Form may be used.

Please note that the assessments may change if there are alterations made to the proposed activities or the project boundaries. Draft APE map and documents may be forwarded for review as they are produced. If you have any questions about this memo or about the Section 106 compliance process, please contact Maureen Zogg at (510) 622-8767, e-mail maureen_zogg@dot.ca.gov, or Douglas Bright at (510) 286-5350, e-mail douglas_bright@dot.ca.gov.

cc: OLA Files

- Regional map Project location map Project footprint map (existing/proposed right of way)
 Engineering drawings (existing and proposed cross sections), if available Borrow/disposal site location map, if applicable
 (Note: all maps (except project location map and regional maps) should be consistent with the project description (minimum scale: 1" = 200').)
 Notes to support the conclusions of this checklist/project description continuation page (attached)

Examine the project for potential effects on the environment, direct or indirect and answer the following questions. The "construction area," as specified below, includes all areas of ground disturbance associated with the project, including staging and stockpiling areas and temporary access roads.

Each answer must be briefly documented on the "Notes" pages at the end of the PES Form.

A. Potential Environmental Effects	Yes	To Be Determined	No
General			
1. Will the project require future construction to fully utilize the design capabilities included in the proposed project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will the project generate public controversy? <i>PRIVATE PROPERTY OWNERS MAY LOSE SPACES USED AS PARKING DUE TO REDUCE DRIVEWAY WIDTHS WITHIN PUBLIC R.O.W.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Noise			
3. Is the project a Type I project as defined in 23 CFR 772.5(h); "construction on new location or the physical alteration of an existing highway, which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes"?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Does the project have the potential for adverse construction-related noise impact (such as related to pile driving)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Air Quality			
5. Is the project in a NAAQS non-attainment or maintenance area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the project exempt from the requirement that a conformity determination be made? (If "Yes," state which conformity exemption in 40 CFR 93.126, Table 2 applies): <i>SAFETY IMPROVEMENT PROGRAM</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the project exempt from regional conformity? (If "Yes," state which conformity exemption in 40 CFR 93.127, Table 3 applies): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. If project is not exempt from regional conformity, (If "No" on Question #7) Is project in a metropolitan non-attainment/maintenance area? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is project in an isolated rural non-attainment area? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is project in a CO, PM10 and/or PM2.5 non-attainment/maintenance area? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Hazardous Materials/Hazardous Waste			
9. Is there potential for hazardous materials (including underground or aboveground tanks, etc.) and/or hazardous waste (including oil/water separators, waste oil, asbestos-containing material, lead-based paint, ADL, etc.) within or immediately adjacent to the construction area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water Quality/Resources <i>SAN RAFAEL CREEK / U.S.A. CHANNEL</i>			
10. Does the project have the potential to impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs) within or immediately adjacent to the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Is the project within a designated sole-source aquifer?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Coastal Zone <i>BCDC (NO PERMIT NEEDED CITY VERIFIED)</i>			
12. Is the project within the State Coastal Zone, San Francisco Bay, or Suisun Marsh?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Floodplain			
13. Is the construction area located within a regulatory floodway or within the base floodplain (100-year elevation of a watercourse or lake)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wild and Scenic Rivers			
14. Is the project within or immediately adjacent to a Wild and Scenic River System?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Biological Resources			
15. Is there a potential for federally listed threatened or endangered species, or their critical habitat or	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

essential fish habitat to occur within or adjacent to the construction area?

16. Does the project have the potential to directly or indirectly affect migratory birds, or their nests or eggs (such as vegetation removal, box culvert replacement/repair, bridge work, etc.)?

- 17. Is there a potential for wetlands to occur within or adjacent to the construction area?
- 18. Is there a potential for agricultural wetlands to occur within or adjacent to the construction area?
- 19. Is there a potential for the introduction or spread of invasive plant species?

Sections 4(f) and 6(f)

- 20. Are there any historic sites or publicly owned public parks, recreation areas, wildlife or waterfowl refuges (Section 4(f)) within or immediately adjacent to the construction area?
- 21. Does the project have the potential to affect properties acquired or improved with Land and Water Conservation Fund Act (Section 6(f)) funds?

Visual Resources

- 22. Does the project have the potential to affect any visual or scenic resources?

Relocation Impacts

- 23. Will the project require the relocation of residential or business properties?

Land Use, Community, and Farmland Impacts *CALTRANS ENCROACHMENT PERMIT. CAT BEND NEAR BRIDGE*

- 24. Will the project require any right of way, including partial or full takes? Consider easements and utility relocations. *RIGHT OF ENTRY - PRIVATE PROPERTY OWNERS (10 TO 15 PROPERTIES, DRIVEWAY CONFORMS)*
- 25. Is the project inconsistent with plans and goals adopted by the community?
- 26. Does the project have the potential to divide or disrupt neighborhoods/communities?
- 27. Does the project have the potential to disproportionately affect low-income and minority populations?
- 28. Will the project require the relocation of public utilities?
- 29. Will the project affect access to properties or roadways? *REDUCE DRIVEWAY WIDTHS TO ADA*
- 30. Will the project involve changes in access control to the State Highway System (SHS)?
- 31. Will the project involve the use of a temporary road, detour, or ramp closure?
- 32. Will the project reduce available parking? *PRIVATE PROPERTY OWNERS USING CITY R.O.W.*
- 33. Will the project construction encroach on state or federal lands?
- 34. Will the project convert any farmland to a different use or impact any farmlands?

Cultural Resources

- 35. Is there National Register listed, or potentially eligible historic properties, or archaeological resources within or immediately adjacent to the construction area? *(Note: Caltrans PQS answers question #35)*
- 36. Is the project adjacent to, or would it encroach on Tribal land?

For Sections B, C, and D, check appropriate box to indicate required technical studies, coordination, permits, or approvals.

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
<input checked="" type="checkbox"/> Traffic Check one: <input type="checkbox"/> Traffic Study <input checked="" type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	* TRAFFIC HANDLING - TO INCLUDE PED/BIKE/TRANSIT/ EMERGENCY SUES. DURING CONSTRUCTION * PARKING REMOVAL INFO. - DESCRIBE THE NUMBER OF SPACES AFFECTED & CONSEQUENCES <input type="checkbox"/> Caltrans * BRIEFLY DESCRIBE <input checked="" type="checkbox"/> Caltrans REASON FOR <input type="checkbox"/> Caltrans MOVING THE TRAFFIC POLE	<input type="checkbox"/> Approval <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Approval
<input type="checkbox"/> Noise Check as applicable: <input type="checkbox"/> Traffic Related <input type="checkbox"/> Construction Related Check one: <input type="checkbox"/> Noise Study Report <input type="checkbox"/> NADR <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	<input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Air Quality Check as applicable: <input type="checkbox"/> Traffic Related <input type="checkbox"/> Construction Related Check one: <input type="checkbox"/> Air Quality Report <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	SEND EMAIL FROM WTC WHICH CONFIRMS TASK FORCE PM 2.5 FINDING <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> FHWA <input type="checkbox"/> Caltrans <input type="checkbox"/> Regional Agency	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Conformity Finding (6005 CEs, EAs, EISs) <input type="checkbox"/> Conformity Finding (6004 CEs) <input type="checkbox"/> PM10/PM2.5 Interagency Consultation
<input checked="" type="checkbox"/> Hazardous Materials/ Hazardous Waste Check as applicable: <input type="checkbox"/> Initial Site Assessment (Phase 1) <input type="checkbox"/> Preliminary Site Assessment (Phase 2) <input type="checkbox"/> Discussion in ED Only	PAINT STRIPING REMOVAL (THERMOPLASTIC) <input checked="" type="checkbox"/> TECHNICAL MEMORANDUM <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Cal EPA DTSC <input type="checkbox"/> Local Agency	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Review Database <input type="checkbox"/> Review Database
<input checked="" type="checkbox"/> Water Quality/Resources Check as applicable: <input type="checkbox"/> Water Quality Assess. Report <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	BIRPE - HOW TO PREVENT CONSTRUCTION DEBRIS AND/OR TOXIC SUBSTANCE TO ENTER STORM DRAINS/CANAL <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input type="checkbox"/> Sole-Source Aquifer (Districts 5, 6 and 11)	<input type="checkbox"/> EPA (S.F. Regional Office)	<input type="checkbox"/> Approval of Analysis in ED
<input type="checkbox"/> Coastal Zone	<input type="checkbox"/> CCC	<input type="checkbox"/> Coastal Zone Consistency Determination

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
<input checked="" type="checkbox"/> Floodplain		
<i>Check as applicable:</i>		
<input checked="" type="checkbox"/> Location Hydraulic Study	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval
<input type="checkbox"/> Floodplain Evaluation Report	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Summary Floodplain Encroachment Report	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval
	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Only Practicable Alternative Finding
	<input type="checkbox"/> FHWA	<input type="checkbox"/> Approves significant encroachments and concurs in Only Practicable Alternative Findings
<input type="checkbox"/> Wild and Scenic Rivers		
	<input type="checkbox"/> River Managing Agency	<input type="checkbox"/> Wild and Scenic Rivers Determination
<input checked="" type="checkbox"/> Biological Resources	<i>TREE REMOVAL INFO. -</i>	<i>DESCRIBE THE NUMBER, SIZE, & TYPE OF TREE(S) REMOVED & REPLACED IF ANY CONSISTENT WITH YOUR LOCAL TREE ORDINANCE & COMPLY WITH THE MIGRATORY BIRD TREATY ACT.</i>
<i>Check as applicable:</i>		
<input type="checkbox"/> NES, Minimal Impact	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input type="checkbox"/> NES		
<input type="checkbox"/> BA	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approves for Consultation
	<input type="checkbox"/> USFWS	<input type="checkbox"/> Section 7 Informal/Formal Consultation
	<input type="checkbox"/> NOAA Fisheries	
<input type="checkbox"/> EFH Evaluation	<input type="checkbox"/> NOAA Fisheries	<input type="checkbox"/> MSA Consultation
<input type="checkbox"/> Bio-Acoustic Evaluation	<input type="checkbox"/> NOAA Fisheries	<input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Technical Memorandum	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval
<input type="checkbox"/> Wetlands		
<i>Check as applicable:</i>		
<input type="checkbox"/> WD and Assessment	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
	<input type="checkbox"/> ACOE	<input type="checkbox"/> Wetland Verification
	<input type="checkbox"/> NRCS	<input type="checkbox"/> Agricultural Wetland Verification
	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Wetlands Only Practicable Alternative Finding
<input type="checkbox"/> Invasive Plants		
<input type="checkbox"/> Discussion in ED Only	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input type="checkbox"/> Section 4(f)		
<i>Check as applicable:</i>		
<input type="checkbox"/> De minimis	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Determine Temporary Occupancy
<input type="checkbox"/> Programmatic 4(f) Evaluation	<input type="checkbox"/> Caltrans	<input type="checkbox"/> De minimis finding
Type: _____	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input type="checkbox"/> Individual 4(f) Evaluation	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
	<input type="checkbox"/> Agency with Jurisdiction	
	<input type="checkbox"/> SHPO	
	<input type="checkbox"/> DOI	
	<input type="checkbox"/> HUD	
	<input type="checkbox"/> USDA	

* INCLUDE -BMPs
construction
staging

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
<input type="checkbox"/> Section 6(f)		
	<input type="checkbox"/> Agency with Jurisdiction <input type="checkbox"/> NPS	<input type="checkbox"/> Determines Consistency with Long-Term Management Plan
	<input type="checkbox"/> NPS	<input type="checkbox"/> Approves Conversion
<input type="checkbox"/> Visual Resources Check one: <input type="checkbox"/> Visual Impact Assessment <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	<input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Relocation Impacts Check one: <input type="checkbox"/> Relocation Impact Memo <input type="checkbox"/> Relocation Impact Study <input type="checkbox"/> Relocation Impact Report	<i>TECHNICAL MEMORANDUM</i> <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<i>RIGHT OF WAY INFO. - DESCRIBE YOUR R.O.W. NEEDS CALTRANS (AT BEND NEER, GEORGE) ENCROACHMENT PERMIT & PROPERTY OWNERS RIGHT OF ENTRY</i> <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Land Use and Community Impacts Check one: <input type="checkbox"/> CIA <input checked="" type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	<i>PUBLIC OUTREACH - PARKING REMOVAL & DRIVEWAYS</i> <input type="checkbox"/> Caltrans <input checked="" type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Approval
<input type="checkbox"/> Construction/Encroachment on State Lands Check as applicable: <input type="checkbox"/> SLC Jurisdiction <input type="checkbox"/> Caltrans Jurisdiction <input type="checkbox"/> SP Jurisdiction	<input type="checkbox"/> SLC <input type="checkbox"/> Caltrans <input type="checkbox"/> SP	<input type="checkbox"/> SLC Lease <input type="checkbox"/> Encroachment Permit <input type="checkbox"/> Encroachment Permit
<input type="checkbox"/> Construction/Encroachment on Federal Lands	<input type="checkbox"/> Federal Agency with Jurisdiction	<input type="checkbox"/> Encroachment Permit
<input type="checkbox"/> Construction/Encroachment On Indian Trust Lands	<input type="checkbox"/> Bureau of Indian Affairs	<input type="checkbox"/> Right of Way Permit
<input type="checkbox"/> Farmlands Check one: <input type="checkbox"/> CIA <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	<input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
Check as applicable: <input type="checkbox"/> Form AD 1006 <input type="checkbox"/> Conversion to Non-Agri Use	<input type="checkbox"/> NRCS <input type="checkbox"/> CDOC <input type="checkbox"/> ACOE	<input type="checkbox"/> Approves Conversion <input type="checkbox"/> Approves Conversion

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/ Approvals
<input checked="" type="checkbox"/> Cultural Resources (PQS completes this section) <i>Check as applicable:</i>		
<input checked="" type="checkbox"/> APE Map	<input checked="" type="checkbox"/> Caltrans PQS	<input checked="" type="checkbox"/> Screened Undertaking
	<input checked="" type="checkbox"/> Caltrans PQS and DLAE <input checked="" type="checkbox"/> Local Preservation Groups and/or Native American Tribes	<input checked="" type="checkbox"/> Approves APE Map <input checked="" type="checkbox"/> Provides Comments Regarding Concerns with Project
<input checked="" type="checkbox"/> HPSR <input checked="" type="checkbox"/> ASR <input type="checkbox"/> HRER	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approves for Consultation
<input type="checkbox"/> Finding of Effect Report	<input type="checkbox"/> Caltrans <input type="checkbox"/> SHPO	<input type="checkbox"/> Concurs on No Effect, No Adverse Effect with Standard Conditions <input type="checkbox"/> Letter of Concurrence on Eligibility, No Adverse Effect without Standard
<input type="checkbox"/> MOA	<input type="checkbox"/> Caltrans <input type="checkbox"/> SHPO <input type="checkbox"/> ACHP (if requested)	<input type="checkbox"/> Approves MOA <input type="checkbox"/> Approves MOA <input type="checkbox"/> Approves MOA
<input type="checkbox"/> Permits Copies of permits and a list of mitigation commitments are mandatory submittals following NEPA approval.	<input type="checkbox"/> ACOE <input type="checkbox"/> ACOE <input type="checkbox"/> Caltrans/ACOE/EPA <input type="checkbox"/> USFWS <input type="checkbox"/> NOAA Fisheries <input type="checkbox"/> ACOE <input type="checkbox"/> USCG <input type="checkbox"/> RWQCB <input type="checkbox"/> CDFG <input type="checkbox"/> RWQCB <input type="checkbox"/> CCC <input type="checkbox"/> Local Agency <input type="checkbox"/> BCDC	<input type="checkbox"/> Section 404 Nationwide Permit <input type="checkbox"/> Section 404 Individual Permit <input type="checkbox"/> NEPA/404 Integration MOU <input type="checkbox"/> Rivers and Harbors Act Section 10 Permit <input type="checkbox"/> USCG Bridge Permit <input type="checkbox"/> Section 401 Water Quality Certification <input type="checkbox"/> Section 1602 Streambed Alteration Agreement <input type="checkbox"/> NPDES Permit <input type="checkbox"/> Coastal Zone Permit <input type="checkbox"/> BCDC Permit

Notes: Additional studies may be required for other federal agencies.

Preliminary Environmental Study (PES) Form

ACHP	=	Advisory Council on Historic Preservation	HRER	=	Historical Resources Evaluation Report
ACOE	=	U.S. Army Corps of Engineers	HUD	=	U.S. Housing and Urban Development
ADL	=	Aerially Deposited Lead	MOA	=	Memorandum of Agreement
APE	=	Area of Potential Effect	MSA	=	Magnuson-Stevens Fishery Conservation and Management Act
APN	=	Assessor Parcel Number	NEPA	=	National Environmental Policy Act
ASR	=	Archaeological Survey Report	NADR	=	Noise Abatement Decision Report
BA	=	Biological Assessment	NES	=	Natural Environment Study
BCDC	=	Bay Conservation and Development Commission	NHPA	=	National Historic Preservation Act
BE	=	Biological Evaluation	NOAA	=	National Oceanic and Atmospheric Administration
BO	=	Biological Opinion	NMFS	=	National Marine Fisheries Service
Cal EPA	=	California Environmental Protection Agency	NPDES	=	National Pollutant Discharge Elimination System
CCC	=	California Coastal Commission	NPS	=	National Park Service
CDFG	=	California Department of Fish and Game	NRCS	=	Natural Resources Conservation Service
CDOC	=	California Department of Conservation	PM10	=	Particulate Matter 10 Microns in Diameter or Less
CE	=	Categorical Exclusion	PM2.5	=	Particulate Matter 2.5 Microns in Diameter or Less
CIA	=	Community Impact Assessment	PMP	=	Project Management Plan
CWA	=	Clean Water Act	PQS	=	Professionally Qualified Staff
DLAE	=	District Local Assistance Engineer	ROD	=	Record of Decision
DOI	=	U.S. Department of Interior	RTIP	=	Regional Transportation Improvement Program
DTSC	=	Department of Toxic Substances Control	RTP	=	Regional Transportation Plan
EA	=	Environmental Assessment	RWQCB	=	Regional Water Quality Control Board
ED	=	Environmental Document	SER	=	Standard Environmental Reference
EFH	=	Essential Fish Habitat	SEP	=	Senior Environmental Planner
EIS	=	Environmental Impact Statement	SHPO	=	State Historic Preservation Officer
EPA	=	U.S. Environmental Protection Agency	SLC	=	State Lands Commission
FEMA	=	Federal Emergency Management Agency	SP	=	State Parks
FHWA	=	Federal Highway Administration	TIP	=	Transportation Improvement Program
FONSI	=	Finding of No Significant Impacted	USCG	=	U.S. Coast Guard
FTIP	=	Federal Transportation Improvement Program	USDA	=	U.S. Department of Agriculture
HPSR	=	Historic Property Survey Report	USFWS	=	U.S. Fish and Wildlife Service
			WD	=	Wetland Delineation

E. Preliminary Environmental Document Classification (NEPA)

Based on the evaluation of the project, the environmental document to be developed should be:

Check one:

Environmental Impact Statement (Note: Engagement with participating agencies in accordance with SAFETEA-LU Section 6002 required)

Compliance with SAFETEA-LU Section 6002 regarding Participating Agencies required

Complex Environmental Assessment

Routine Environmental Assessment

Categorical Exclusion without required technical studies.

Categorical Exclusion with required technical studies

(if Categorical Exclusion is selected, check one of the following):

Section 6004

23 CFR 771 activity (c) (3)

23 CFR 771 activity (d) ()

Activity _____ listed in the Section 6004 MOU

Section 6005

F. Public Availability and Public Hearing

Check as applicable:

Not Required

Notice of Availability of Environmental Document

Public Meeting

Notice of Opportunity for a Public Hearing

Public Hearing Required

- FOLLOW LOCAL HEARING PROCEDURES

- ADVANCE CONSTRUCTION LETTERS MAILED TO ADJACENT PROPERTY OWNERS

G. Signatures

Local Agency Staff and/or Consultant Signature

Leslie Blomquist
(Signature of preparer)

11/28/12
(Date)

415-485-3473
(Telephone No.)

Leslie Blomquist, Associate Civil Engineer
(Name)

Local Agency Project Engineer Signature

This document was prepared under my supervision, in accordance with the *Local Assistance Procedures Manual*, Exhibit 6-B, "Instructions for Completing the Preliminary Environmental Study Form."

Leslie Blomquist
(Signature of Local Agency)

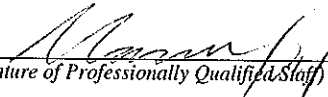
11/28/12
(Date)

415-485-3473
(Telephone No.)

Caltrans District Professionally Qualified Staff (PQS) Signature

FRANCISCO BOULEVARD EAST IMPROVEMENTS 5043(027)

- Project does not meet definition of an "undertaking"; no further review is necessary under Section 106 ("No" Section A, #35).
- Project is limited to the type of activity listed in Attachment 2 of the Section 106 PA and based on the information provided in the PES Form, the project does not have the potential to affect historic properties ("No" Section A, #35).
- Project is limited to the type of activity listed in Attachment 2 of the Section 106 PA, but the following additional procedures or information is needed to determine the potential for effect ("To Be Determined" Section A, #35):
 - Records Search _____ _____ _____
- Project meets the definition of an "undertaking"; all properties in the project area are exempt from evaluation per Attachment 4 of the Section 106 PA ("No" Section A, #35).
- The proposed undertaking is considered to have the potential to affect historic properties; further studies for 106 compliance are indicated in Sections B, C, and D of this PES Form ("Yes" Section A, #35).


(Signature of Professionally Qualified Staff)

3-6-2013
(Date)

510-622-8767
(Telephone No.)

The following signatures are required for all CEs, routine and complex EAs, and EISs:

Caltrans District Senior Environmental Planner (or Designee) and DLAE Signatures

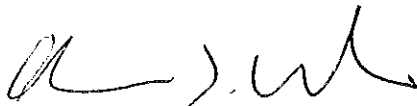
I have reviewed this Preliminary Environmental Study (PES) Form and determined that the submittal is complete and sufficient. I concur with the studies to be performed and the recommended NEPA Class of Action.


(Signature of Senior Environmental Planner or Designee)

3/11/13
(Date)

(510) 622-8790
(Telephone No.)

Hugo Ahumada
(Name)



(Signature of District Local Assistance Engineer or Designee)

3/11/2013
(Date)

510-286-5227
(Telephone No.)

Chien S. Wu
(Name)

HQ DEA Environmental Coordinator concurrence _____ E-mail concurrence attached.
(date)

**Preliminary Environmental Investigation
Notes to Support the Conclusions of the PES Form
(May Also Include Continuation of Detailed Project Description)**

Continuation of Project Description

lighting, a-traffic signal-modification, storm drain-modifications, irrigation and landscaping, installation of ADA compliant curb ramps, asphalt concrete overlay paving, and the installation of signal interconnect. *NEW* *RECOMMENDATION OF NEW TREES*

Brief Explanation of How Project Complies, or Will Comply with Applicable Federal Mandate (Part A):	
1.	No, this is a complete project that will be fully completed and available for use at the completion of construction.
2.	Because several of the the private properties currently utilize existing public right-of-way as a portion of their off-street parking, and because this project proposes to reduce driveway widths from the public right-of-way to private property to current City of San Rafael Municipal Code Standrads, there is the potential that some private properties may lose spaces within the private lots.
3.	No, this project will not change the vertical or horizontal alignment of the road, nor will it increase the number of through traffic lanes. No work is to be done on a new location.
4.	No, the only noise would be caused during demolition of any existing concrete curb, gutter and sidewalk necessary to install the new improvmenets. No pile driving is to occur.
5.	Yes, the project is in a NAAQS non-attainment or maintenance area.
6.	TBD
7.	N/A
8.	N/A
9.	TBD. Upon checking the online geotracker services, there appears to be 1 open leaking underground storage tank sight with the potential contaminants of concern listed as gasoline. The clean up status has been inactive since 2009. All other clean up sights along the project corridor are closed.
10.	No, although work is to occur within vicinity of the San Rafael canal, all proposed improvements stop south of the crossing of Grand Avneue of the San Rafael Canal. No construction activity is proposed to occur within the limits of the canal and all improvements will be designed so as no impacts are proposed.
11.	No, the project is not within a designated sole-source aquifer.
12.	TBD, it is uncertain at this time if the project limits fall within BCDC jurisdiction.
13.	Yes, the project is located within the 100 year floodplain.
14.	No, the project is not wihtin or immediately adjacent to a Wild and Scenic River System.
15.	No, there is no potential for federally listed threatened or endangered species, or their critical habitat or essential fish habitat to occur wihin or adjacent to the construction area.
16.	No, this project does not have any potential to directly or indirectly affect migratory birds, or their nests or eggs.
17.	No, there is no potential for wetlands to occur within or adjacent to the construction area.
18.	No, there is no potential for agricultural wetlands to ccur within or adjacent to the construction area.
19.	No, there is no potential for the intruduction or spread of invasive plant species.
20.	No, there are no historic sites or publicly owned public parks, recreation areas, wildlife or waterfowl reuges within or immediately adjacent to the construciton area.
21.	No, the project does not have the potential to affect properties acquired or improved with Land and Water Conservation Fund Act funds.
22.	No, the project does not have the potential to affect any visual or scenic resources.

23.	No, the project will not require the relocation of residential or business properties.
24.	Yes, temporary construction easements will be required. No permanent full or partial takes will be required.
25.	No, the project is not inconsistent with plans and goals adopted by the community.
26.	No, the project does not have the potential to divide or disrupt neighborhoods/communities.
27.	No, the project does not have the potential to disproportionately affect low-income and minority populations.
28.	No, the project does not require the relocation of any utilities. Any utility relocations identified during design will be completed by the utility owners as part of a separate project.
29.	Yes, the project has the potential to affect access to properties as the existing driveway curb cuts at several properties are proposed to be reduced in size.
30.	No, there will be no changes in access to the State Highway System.
31.	No, the project will not require the use of a temporary road, detour, or ramp closure.
32.	No, the project will not reduce available on street parking before, during or after construction. It is anticipated that the amount of on-street parking will increase as part of the project.
33.	No, the project will not encroach on state or federal lands.
34.	No, the project will not convert any farmland to a different use or impact any farmlands.
35.	TBD
36.	No, the project is not adjacent to nor will it encroach on any Tribal Land.

**Report of TIP Revision 2011-16
(By Phase & Fund Source)**

PROPOSED

TIP ID: MRN110029 Revision: 2011-16 Version: 1 Status: PROPOSED CTIPS ID:

Sponsoring Agency: San Rafael Implementing Agency: San Rafael

Trans. System: LOCAL RD Mode: BIKE/PED Hwy Rte: Project Type: SIDEWALK Purpose: ENHANCEMENT

Project Name: San Rafael: Sidewalk along East Francisco Blvd

Proj Description: City of San Rafael: Along East Francisco Boulevard from Vivian Way to Grand Avenue; Sidewalk improvements

Revision Reason: Amend a new exempt project into the TIP using \$200K in FY12 PE NMTTP funds and \$1.3M in FY12 CON NMTTP funds

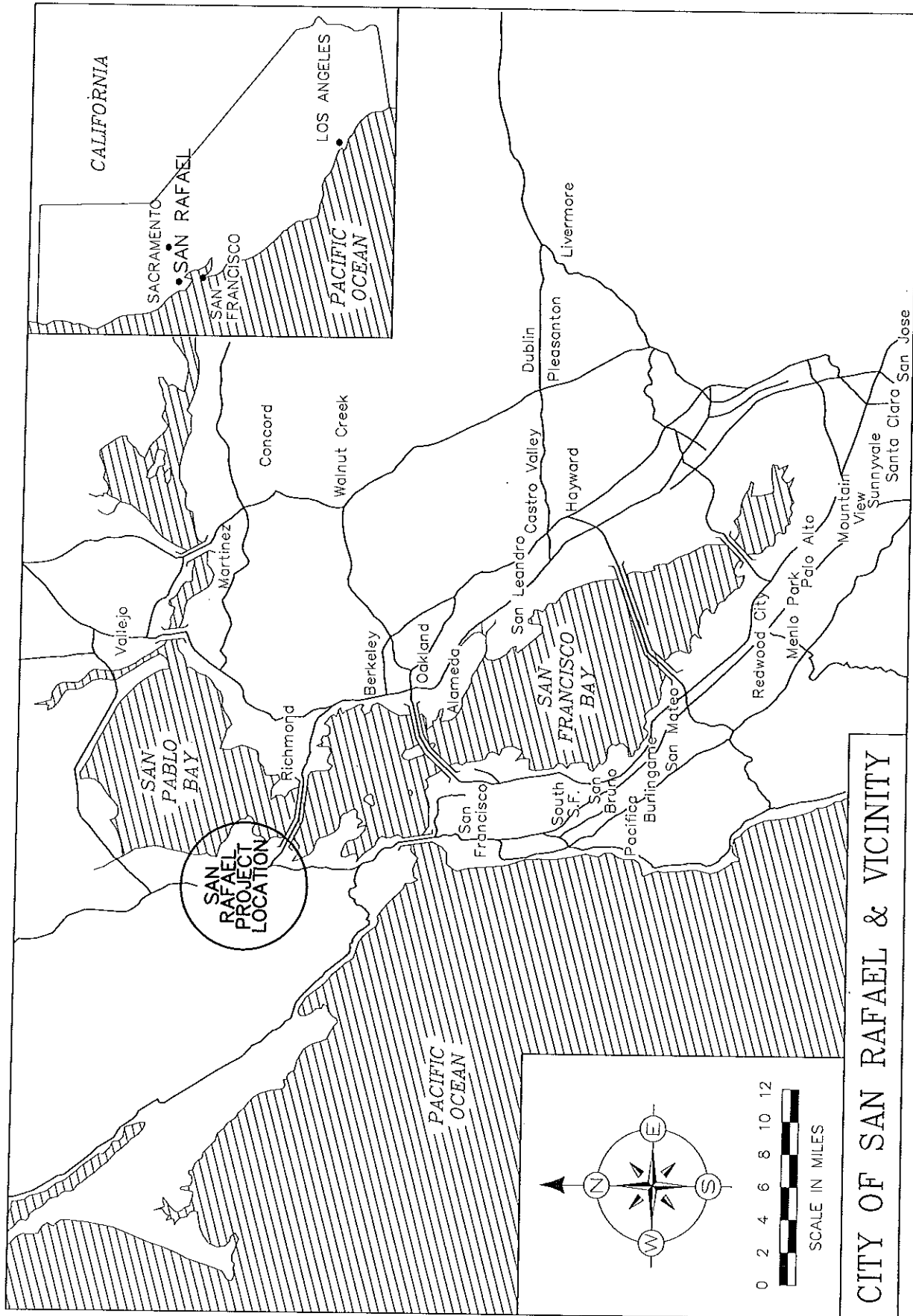
Primary RTP ID: 22247 Sec. RTP ID: RTP Cycle: T-2035 RTP Cost: \$1,000,000,000 Review: AA

RTP Description: Regional Bicycle Program: provide capital funds to fully build out the Regional Bikeway Network as defined in MTC's Regional Bicycle Plan for the San Francisco Bay Area, 2009 Update

AQ Description: EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities

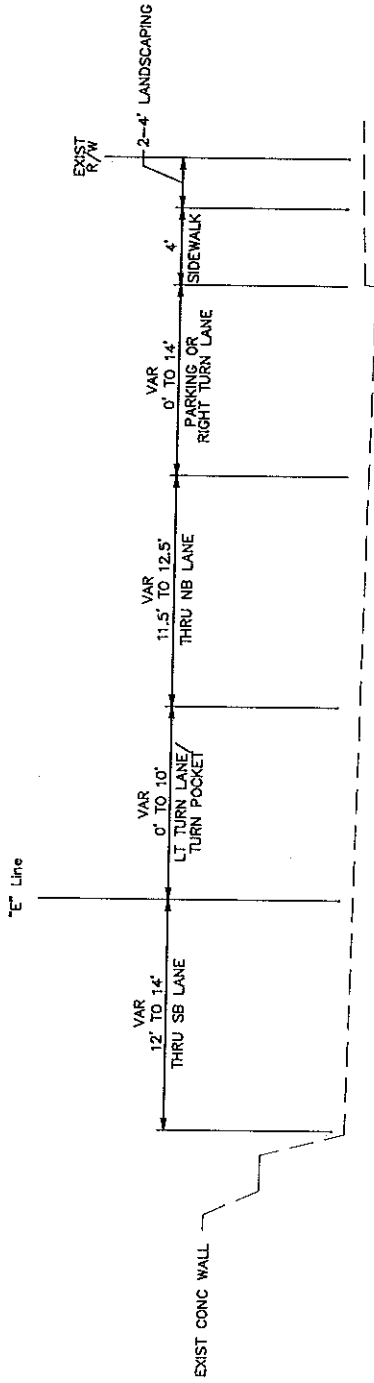
Phase	Fund Source	Total	Prior	FY 10/11	FY 11/12	FY 12/13	FY 13/14	Later	Toll Credit
PE	EARMARK-T3	200,000	-	-	200,000	-	-	-	-
CON	EARMARK-T3	1,300,000	-	-	1,300,000	-	-	-	-
Total Funding		1,500,000	-	-	1,500,000	-	-	-	-

End of Project MRN110029

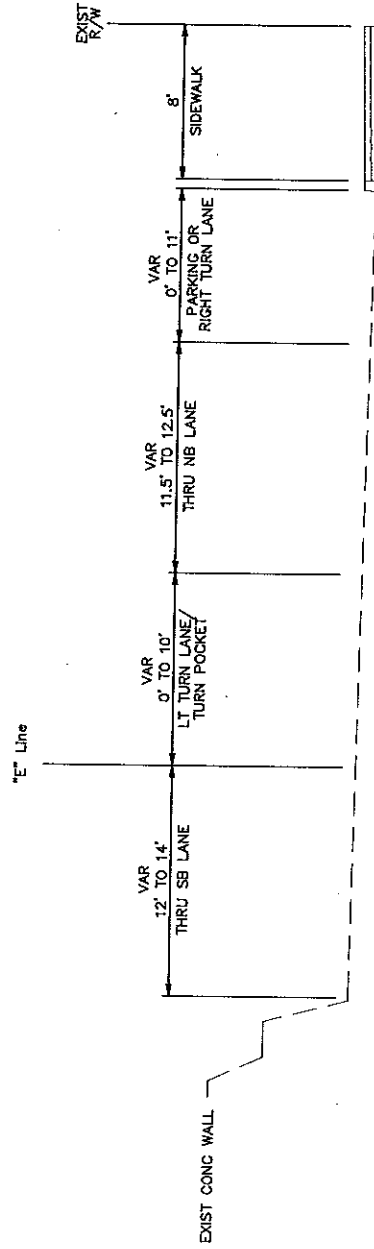


CITY OF SAN RAFAEL & VICINITY

REGIONAL MAP
N.T.S.

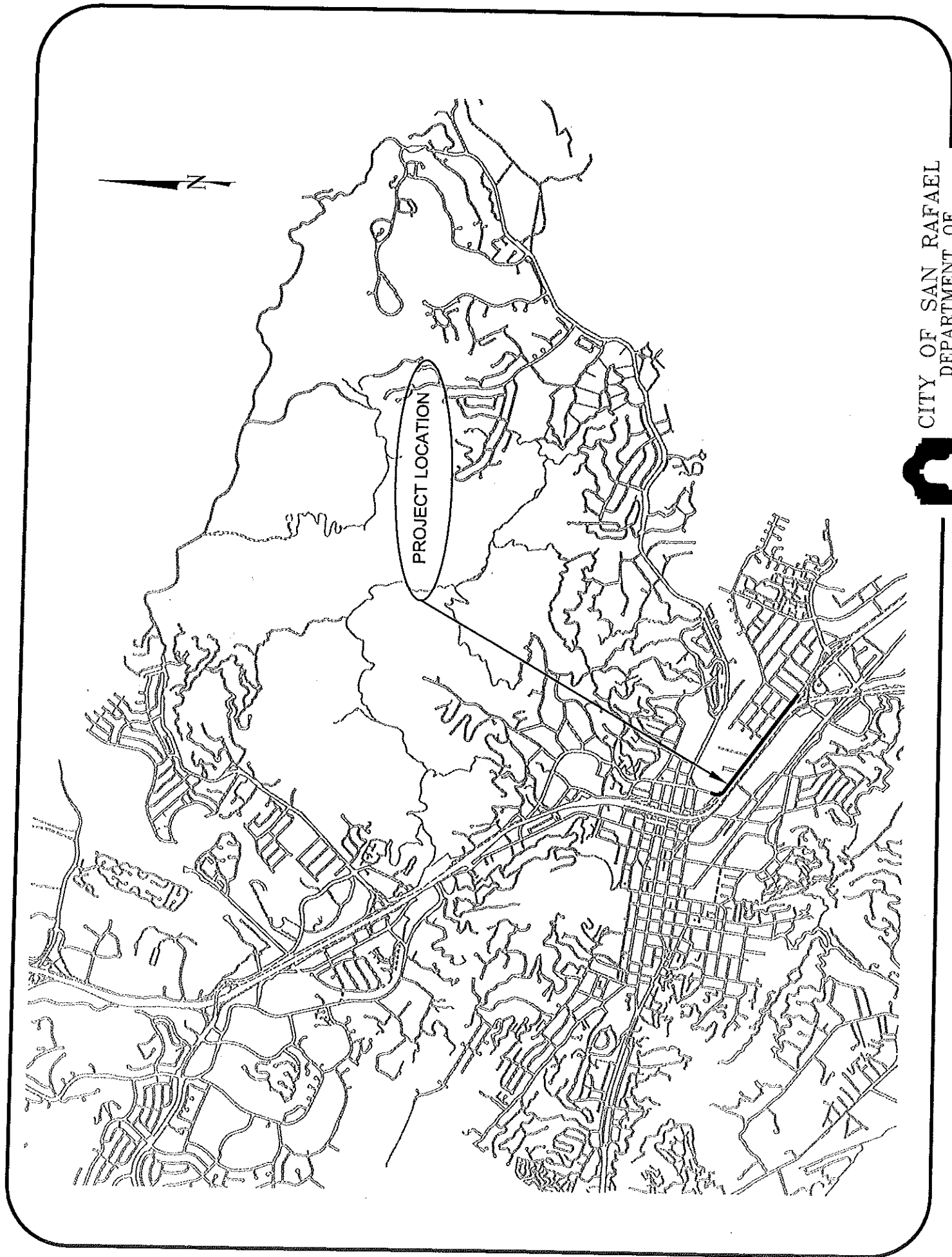


EAST FRANCISCO BLVD
EXISTING CROSS SECTION



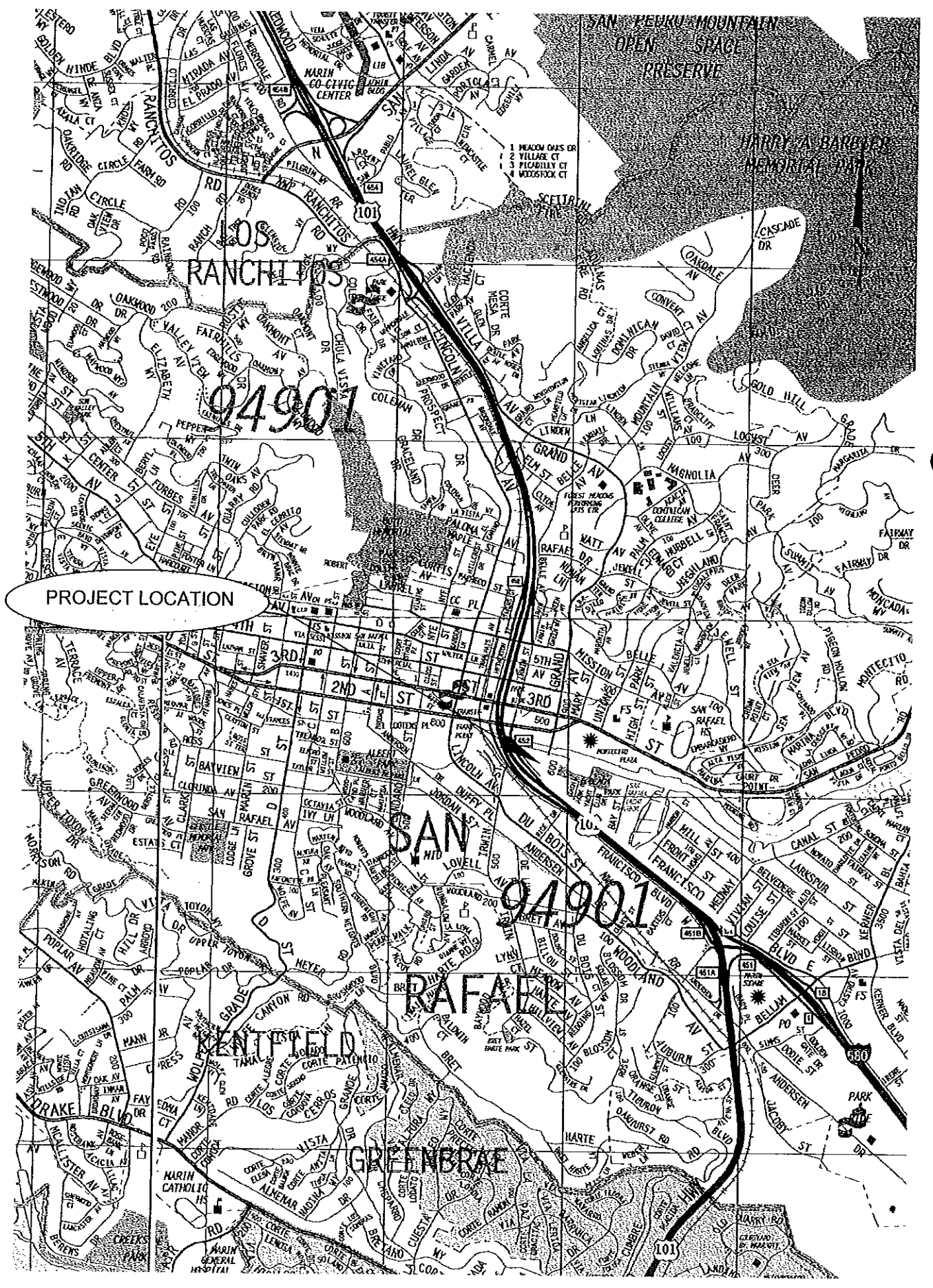
EAST FRANCISCO BLVD
PROPOSED CROSS SECTION



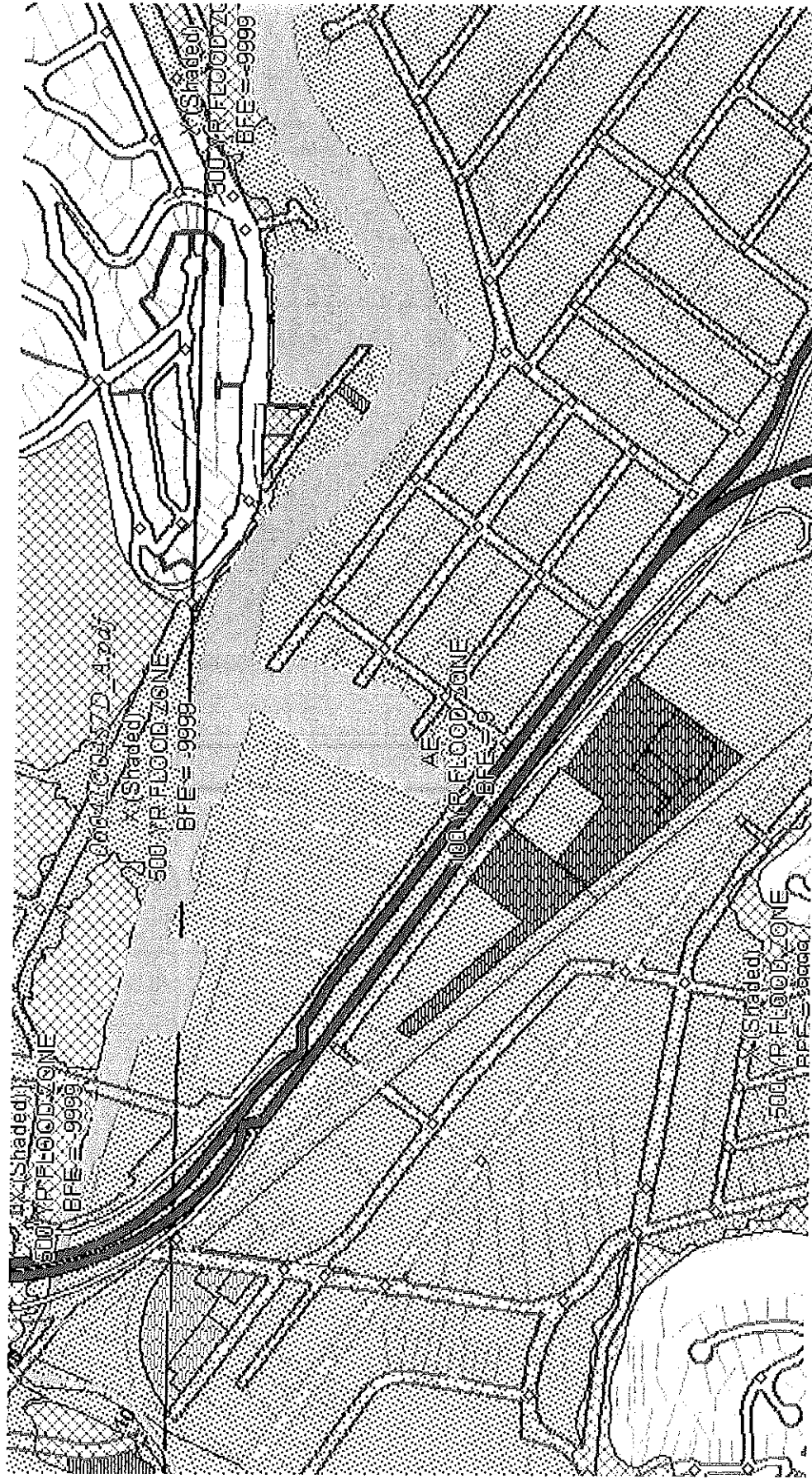


CITY OF SAN RAFAEL
DEPARTMENT OF
PUBLIC WORKS





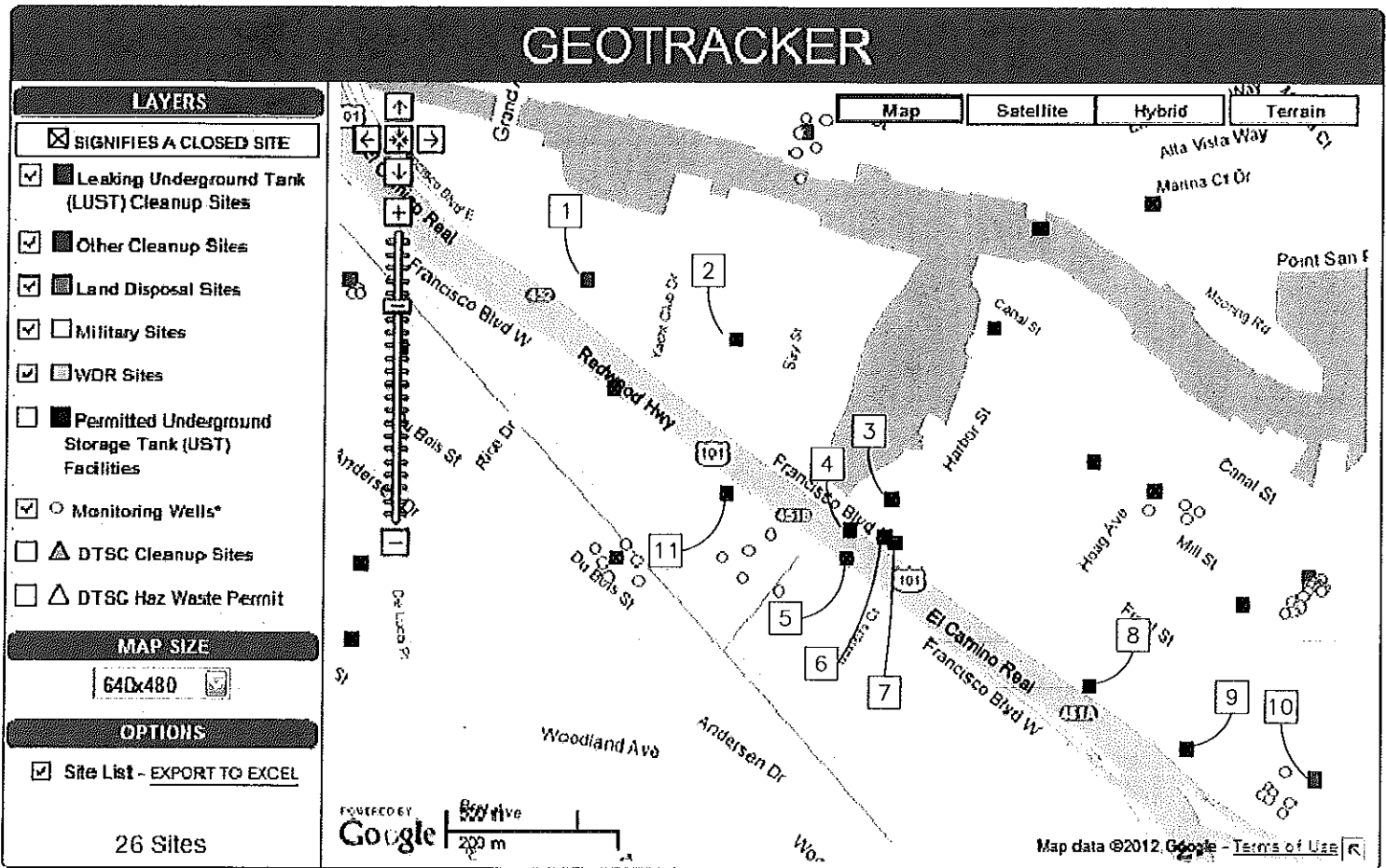
FEMA Floodplain Map
Non Motorized Transportation Pilot Program – Francisco Blvd E



LEGEND

- 500 Year Flood Zone
- 100 Year Flood Zone

FRANCISCO BLVD EAST (VIVIAN ST TO GRAND AVE) GEOTRACKER INFORMATION



GEOTRACKER SITE LIST					
MAP ID NO	GEOTRACKER ID	SITE NAME	CLEANUP STATUS	ADDRESS	CITY
1	T0604100151	JOHN IRISH AUTOMOTIVE	OPEN - INACTIVE	475 FRANCISCO BLVD	SAN RAFAEL
2	T0604100015	BRUNING ASSOCIATES	COMPLETED - CASE CLOSED	513 19 FRANCISCO BLVD E	SAN RAFAEL
3	T0604100136	U HAUL 708062	COMPLETED - CASE CLOSED	1205 FRANCISCO BLVD E	SAN RAFAEL
4	T0604100171	FORMER GOLDEN STATE LUMBER	COMPLETED - CASE CLOSED	600 FRANCISCO BLVD W	SAN RAFAEL
5	SL0604148996	RAB MOTORS/CALTRANS	COMPLETED - CASE CLOSED (LAND USE RESTRICTIONS)	550 FRANCISCO BLVD WEST	SAN RAFAEL
6	T0604100244	MARIN MAZDA	COMPLETED - CASE CLOSED	595 FRANCISCO BLVD E	SAN RAFAEL
7	T0604117143	HATTAR MOTO SPORTS	COMPLETED - CASE CLOSED	601 E FRANCISCO BLVD	SAN RAFAEL
8	T0604100163	SONNEN LEXUS	COMPLETED - CASE CLOSED	740 FRANCISCO BLVD	SAN RAFAEL
9	T0604100070	MARIN MAZDA aka TRIPLE S TIRES	COMPLETED - CASE CLOSED	807 FRANCISCO BLVD	SAN RAFAEL
10	T0604100051	PETER'S ALLIANCE	OPEN - SITE ASSESSMENT	831 FRANCISCO BLVD E	SAN RAFAEL
11	T0604164335	RAB MOTORS	COMPLETED - CASE CLOSED	540 FRANCISCO BLVD	SAN RAFAEL

Visual Impact Assessment (VIA) Guide
'Non Motorized Transportation Pilot Program – Francisco Boulevard East' Project

The following questions, and subsequent score should be used as a guide to determine the level of detail required for a VIA. It is helpful in estimating the probable visual impacts a proposed project may have on the environment. This checklist is meant to assist the writer of the visual study in understanding the degree and breadth of the possible visual issues. The goal is to develop a suitable document strategy that is thorough, efficient and defensible.

Consider each of the ten questions below and select the response that most closely applies to the project in question. Each response has a corresponding point value. After the checklist is completed the total score will represent the type of VIA document suitable for the project.

It is important that this scoring system be used as a preliminary guide only and should not be used as a substitute for objective analysis on the part of the user. Although the collective score may direct the user toward a certain level of analysis document, circumstances associated with any one of the ten question-areas may necessitate elevating the VIA to a greater level of detail.

Change to the Visual Environment

1. Will the project result in a noticeable change in the physical characteristics of the existing environment?

No, the proposed project is to install new concrete sidewalk, signage and striping. The new sidewalk will connect to existing sidewalk on either end of the project limits. There is existing striping and signage within the project limits. There will be no noticeable change in the physical characteristics of the existing environment.

High level of change (3) Moderate level of change (2) Low level of change (1)

2. Will the project complement or contrast with the visual character desired by the community?

The project will complement the visual character desired by the community. All of the proposed improvements were identified in the 2011 City of San Rafael Bicycle/Pedestrian Master Plan. All of the proposed improvements and are in concert with all City of San Rafael planning documents. Installing new sidewalk, signing and striping will increase safety for pedestrians, bicycles and all other roadway drivers.

Highly incompatible (3) Somewhat incompatible (2) Somewhat compatible (1)

3. What types of project features and construction impacts are proposed? Are bridge structures, large excavations, sound barriers, or median planting removal proposed?

None of the above mentioned construction impacts will occur as a result of this project. No structures are to be altered as part of the construction, no sound barriers are to be constructed and no median planting will be removed or altered.

High concern (3) Moderate concern (2) Low concern (1)

4. Will the project changes likely be mitigated by normal means such as landscaping and architectural enhancement or will avoidance measures be necessary to minimize adverse change?

Mitigations for construction are already planned. This includes doing most of the construction during the summer when schools are not in session to minimize the impact on traffic. In addition, requirements to install filter fabric around all catch basins and storm drains to eliminate waste from entering the storm drain system and vacuuming any yellow thermoplastic immediately after it has been removed will be included in the project specifications. No permanent mitigations are required as the final use will be similar to existing.

Project alternative may be needed (3) Extensive mitigation likely (2) **Normal mitigation (1)**

5. *Will this project, when seen collectively with other projects, result in an aggregate adverse change in overall visual quality or character?*

No, this project will not result in an aggregate adverse change in overall visual quality or character.

Impacts likely in 0-5 years (3) Impacts likely in 6-10 years (2) **Cumulative Impacts unlikely (1)**

Viewer Sensitivity

1. *What is the potential that the project proposal may be controversial within the community, or opposed by any organized group?*

There is the potential for controversy from the adjacent private property owners whose existing landscaping and parking, which currently utilizes public right-of-way, may be impacted due to the proposed reduction in driveway curb cut widths. The remainder of the community, including pedestrians, bicyclists, residents and the school district are in support of this project which will improve the safety and accessibility of the corridor as a whole for all users.

High Potential (3) **Moderate Potential (2)** **Low Potential (1)**

2. *How sensitive are potential viewer-groups likely to be regarding visible changes proposed by the project?*

There are no visible changes proposed by the project, therefore, there is no chance of any sensitivity by potential viewer-groups. Visual changes during construction will be minimal and will be in place for a very short duration of time. Affected persons will be notified in advance of the work and any temporary visual changes. As part of the project, some trees may be removed, but new trees will be planted in their place.

High Sensitivity (3) Moderate Sensitivity (2) **Low Sensitivity (1)**

3. *To what degree does the project appear to be consistent with applicable laws, ordinances, regulations, policies or standards?*

Many local and state planning documents can be found online at the [California Land Use Planning Network](#).

The proposed project is fully consistent with all applicable laws, ordinance, regulations, policies and standards.

Incompatible (3) Moderately compatible (2) **Largely compatible (1)**

4. *Are any permits going to be required by outside regulatory agencies (i.e., Federal, State, or local) that will necessitate a particular level of Visual Impact Assessment?*

A Caltrans encroachment permit will be required. No other permits are anticipated to construct the work.

Yes (3) Maybe (2) **No (1)**

5. *Will the Project Development Team or public benefit from a more detailed visual analysis in order to help reach consensus on a course of action?*

There would be no benefit of a more detailed visual analysis as the project is only to install improvements that are already currently in place immediately adjacent to the project limits.

Yes (3) Maybe (2) **No (1)**

Determining the Type of Visual Impact Assessment Required

The total score will indicate the general level of Visual Impact Assessment that should be performed for the project. Once the level of recommended assessment is identified, the user should double-check the results by comparing each of the ten question-areas to the total score in order to confirm that the level of document appears sufficient and reasonable in each case.

Score 25-30 – Prior to preparing a VIA, a formal visual scoping study that meets or exceeds FHWA requirements is recommended to alert the Project Development Team to potential highly adverse impacts and to develop new project alternatives to avoid those impacts.

Score 20-24 – A fully developed VIA, that meets or exceeds FHWA requirements, is recommended. This technical study will likely receive extensive public review.

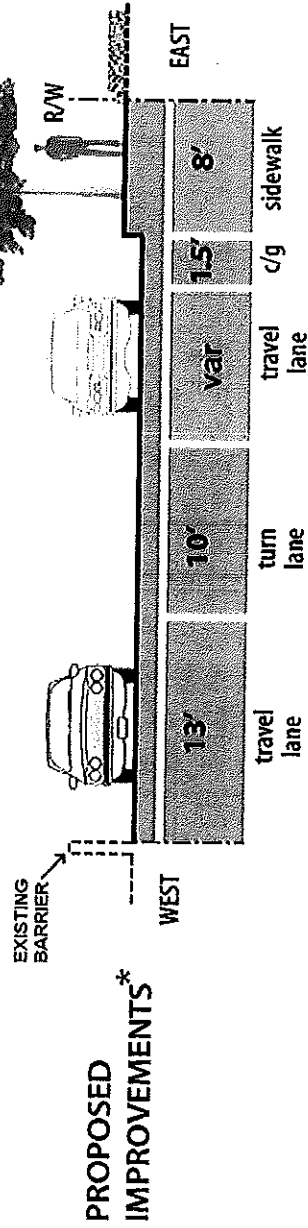
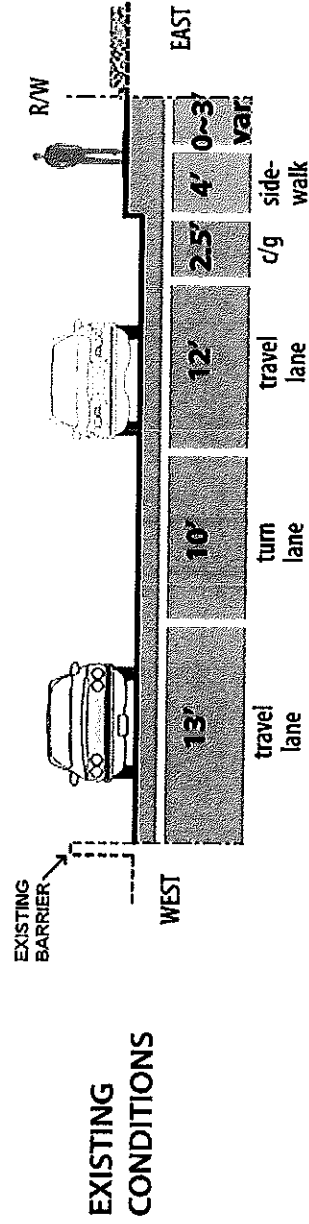
Score 15-19 – An abbreviated VIA would be appropriate in this case. The assessment would describe project features, impacts and mitigation requirements. Visual simulations would be optional.

Score 10-14 – A brief Visual assessment in memo form would likely be sufficient.

(Project Score = 11)

Proposed Cross Section

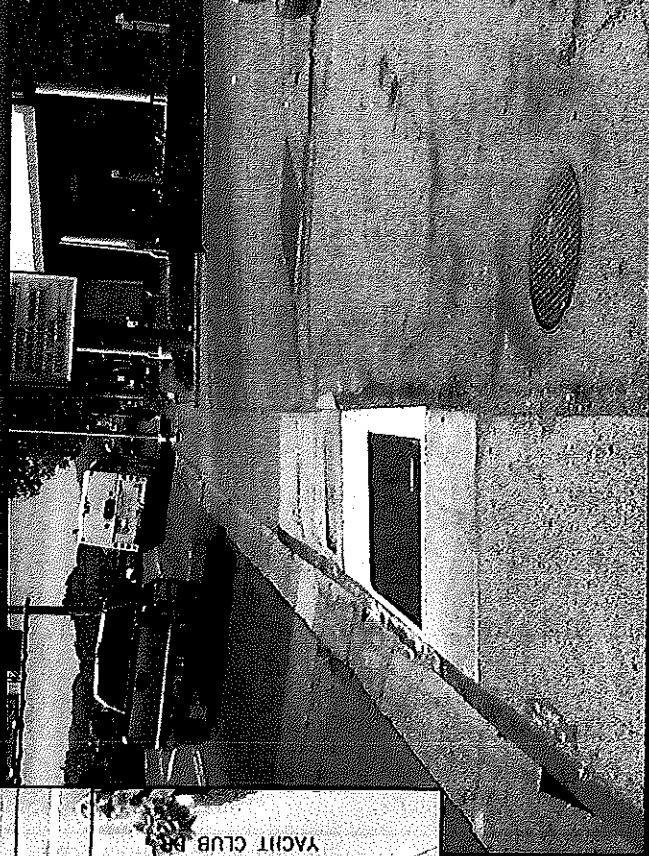
East Francisco Blvd. (Hoag Ave. to Harbor St.)



*On-street parking not shown

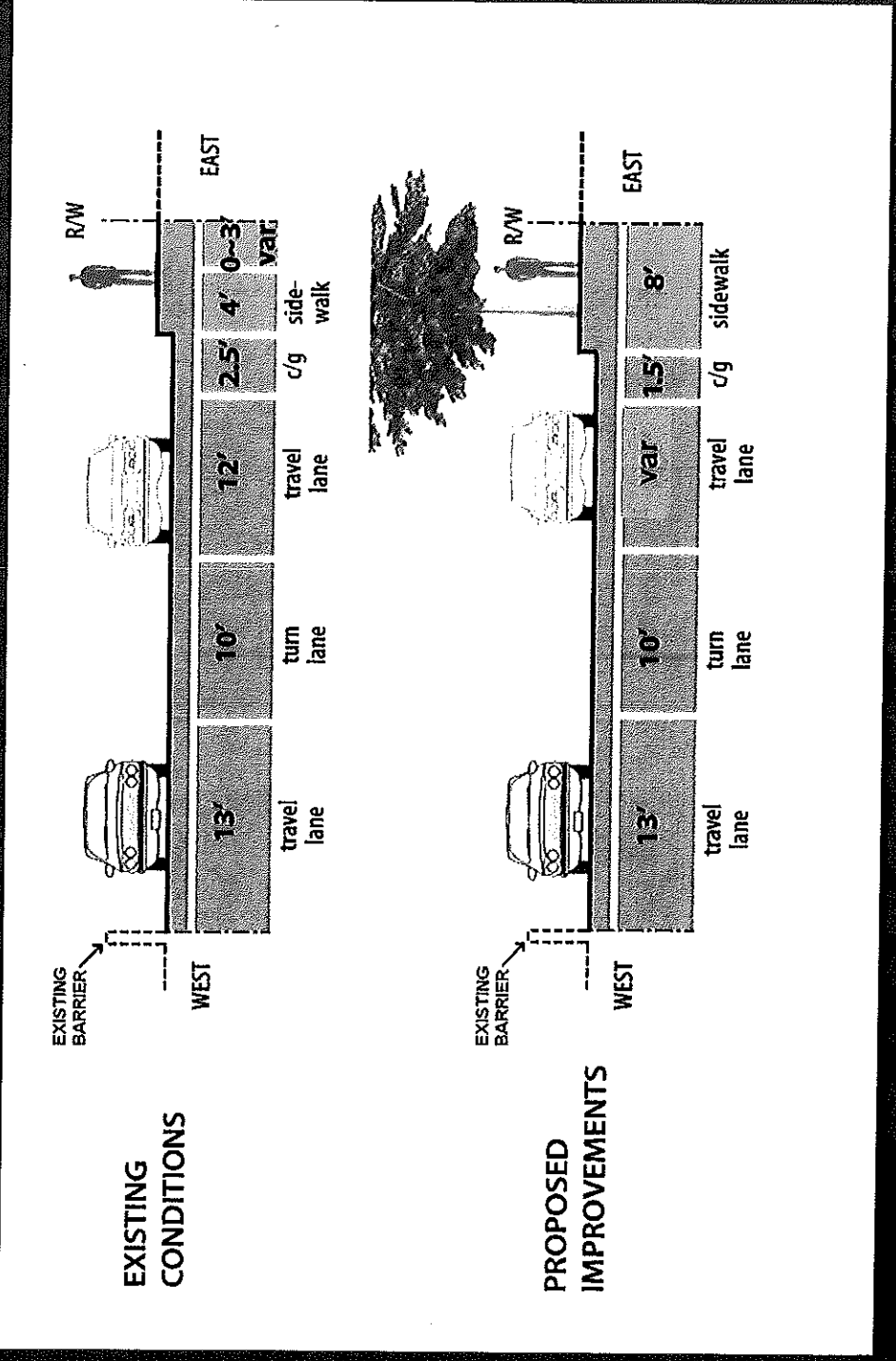
Existing Conditions: E. Francisco Blvd

Harbor St. to Yacht Club Dr.



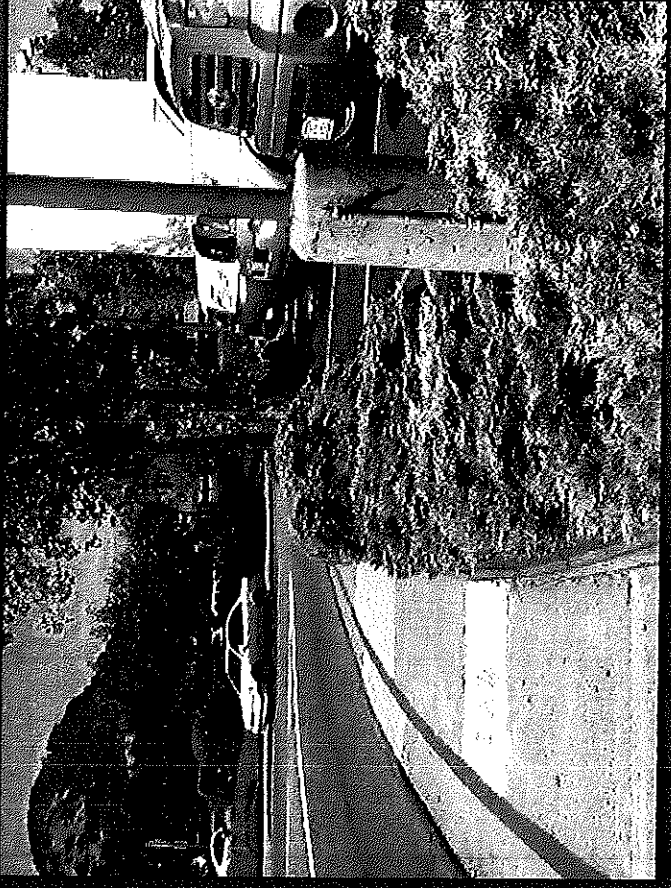
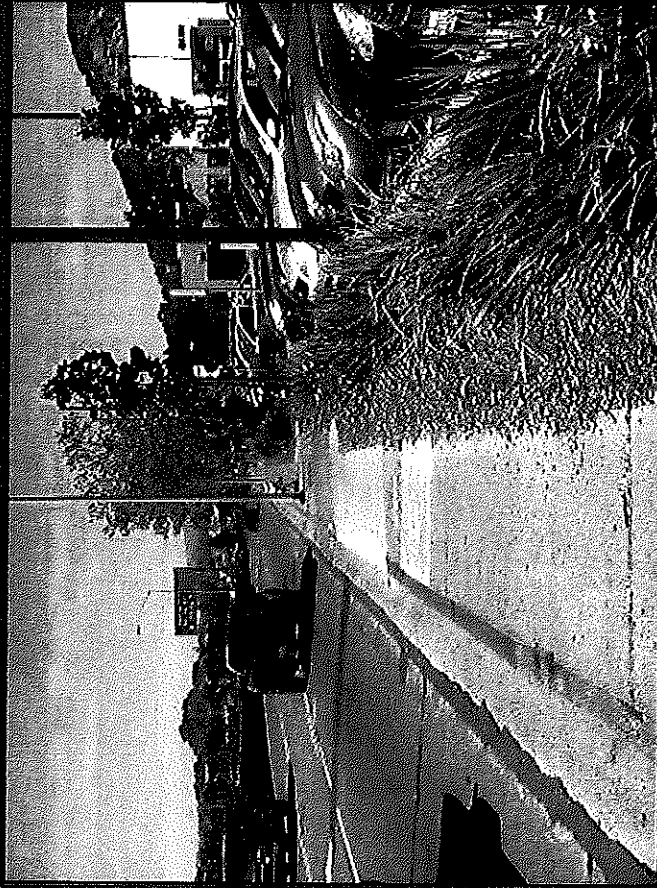
Proposed Cross Section

East Francisco Blvd. (Harbor St. to Yacht Club Dr.)



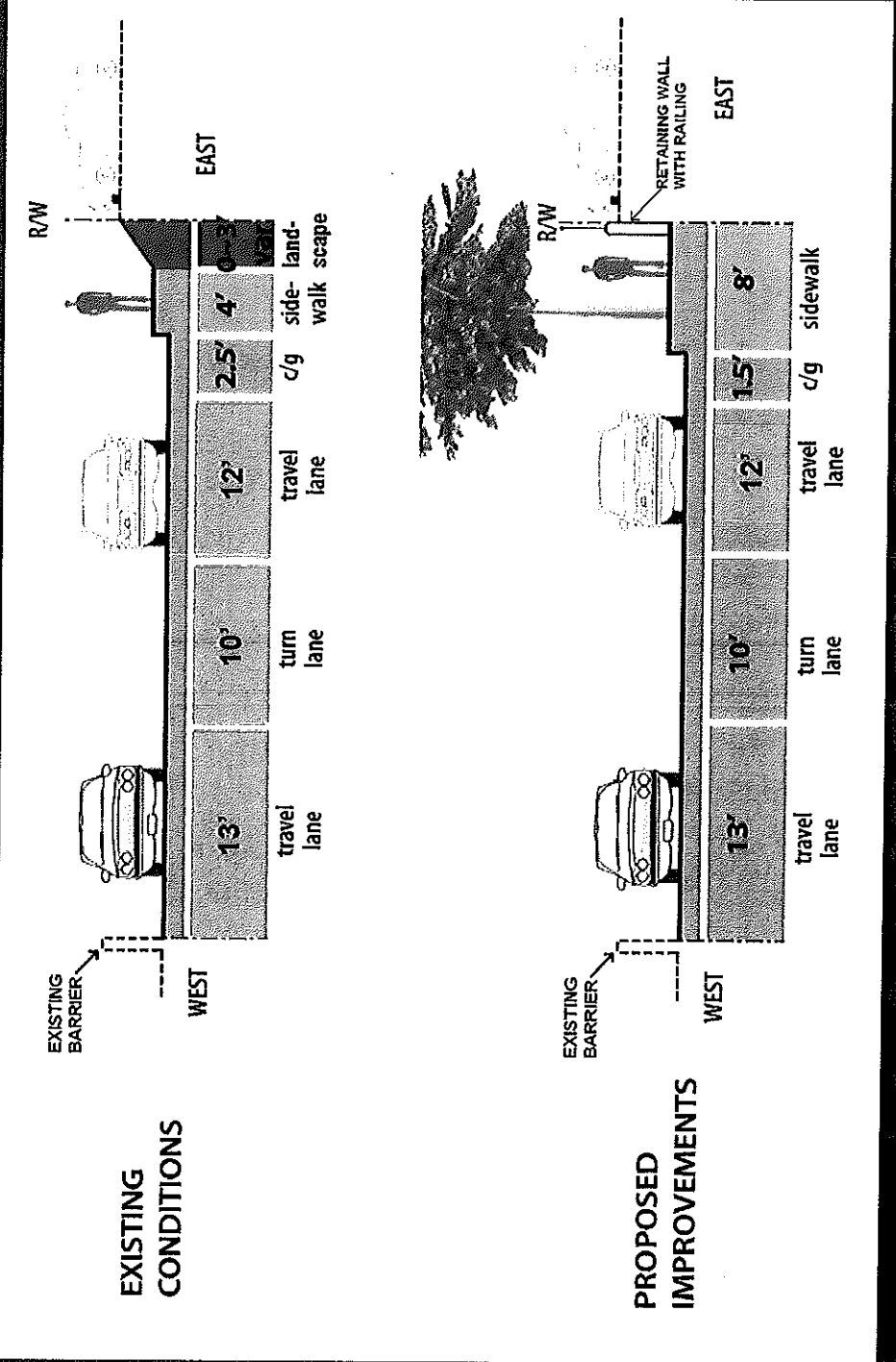
Existing Conditions: E. Francisco Blvd

Yacht Club Dr. to Grand Ave.



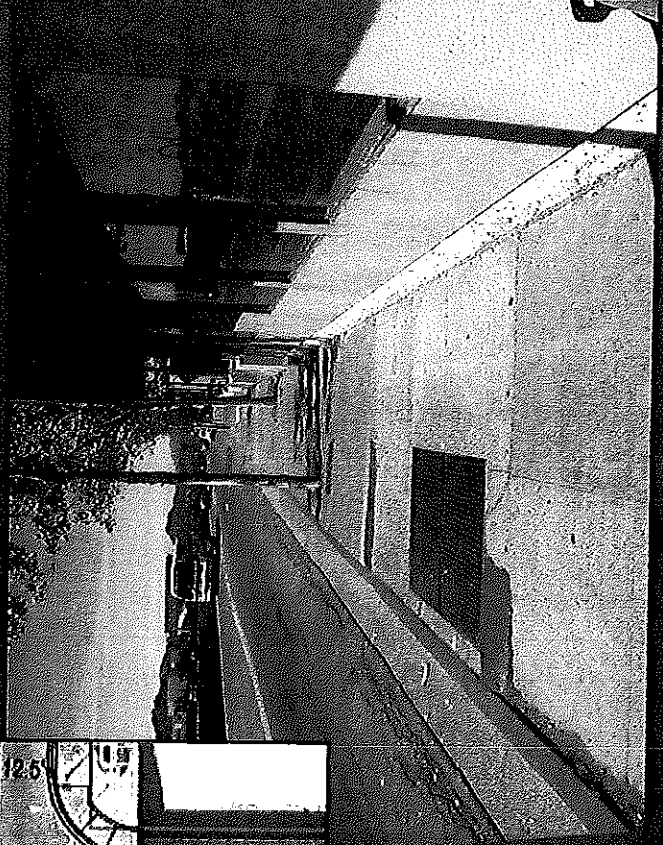
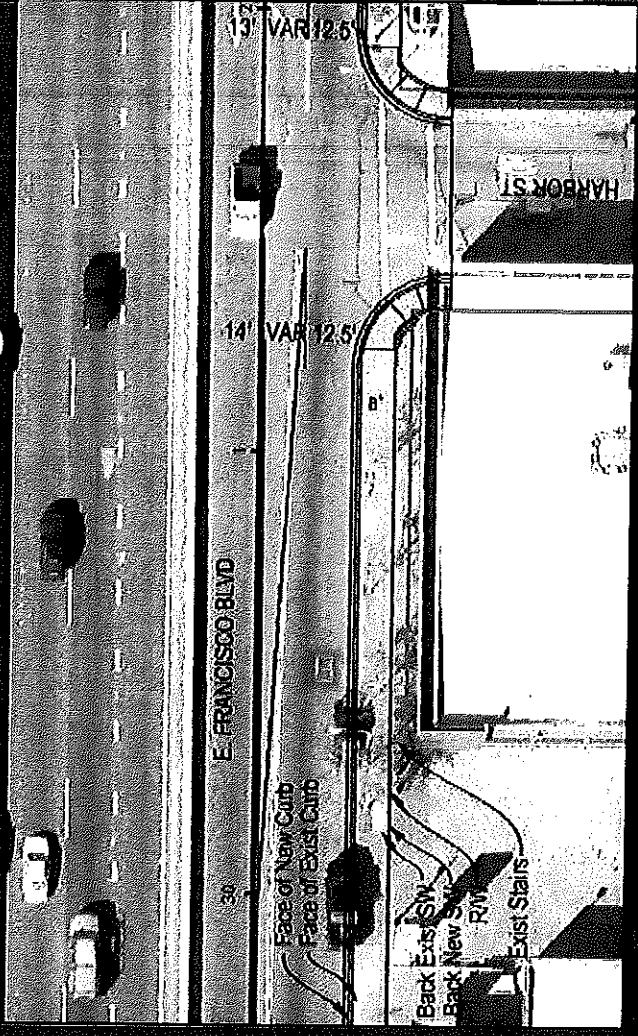
Proposed Cross Section

East Francisco Blvd. (Yacht Club Dr. to Grand Ave.)



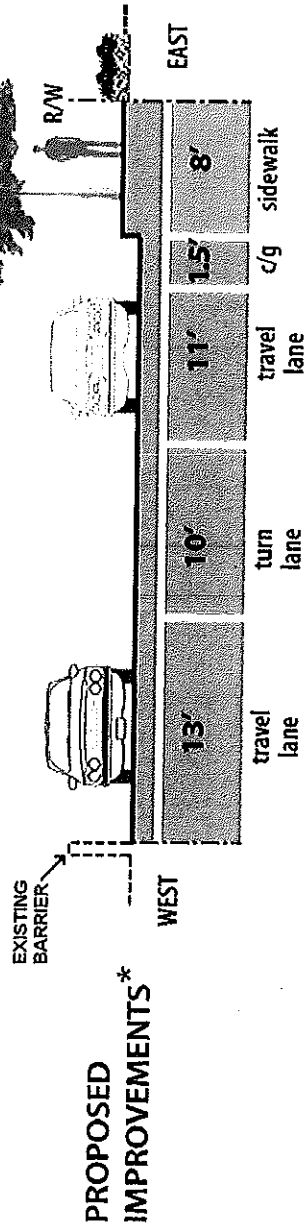
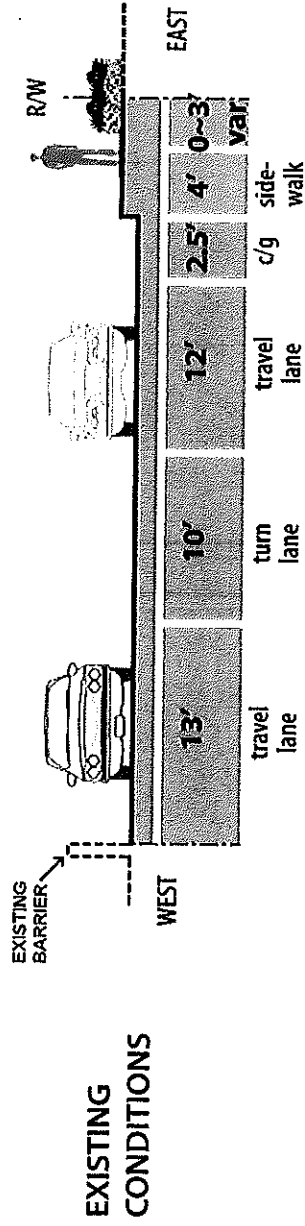
Existing Conditions: E. Francisco Blvd

Hoag Ave. to Harbor St.



Proposed Cross Section

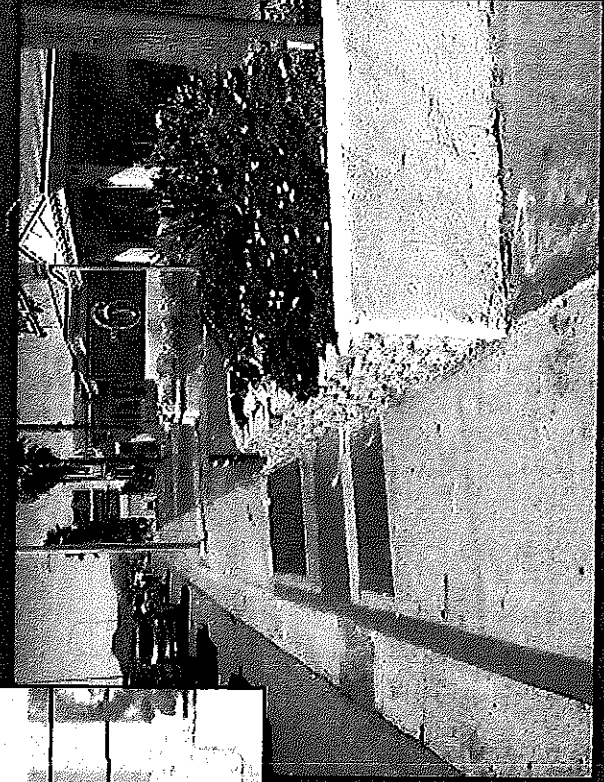
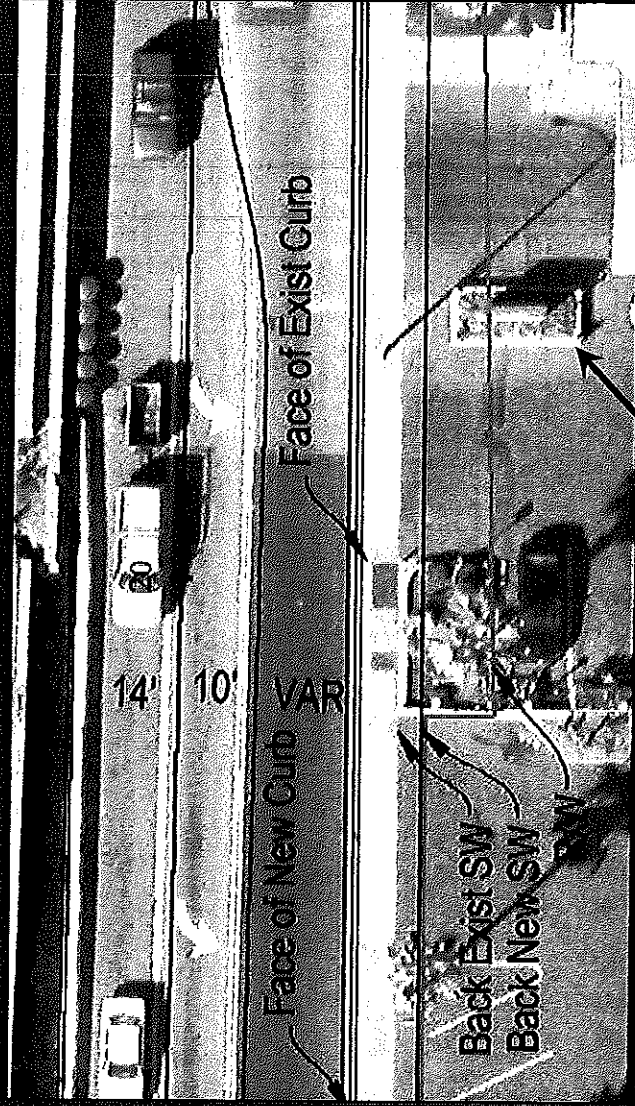
East Francisco Blvd. (Medway Rd. to Hoag Ave.)



*On-street parking not shown

Existing Conditions: E. Francisco Blvd

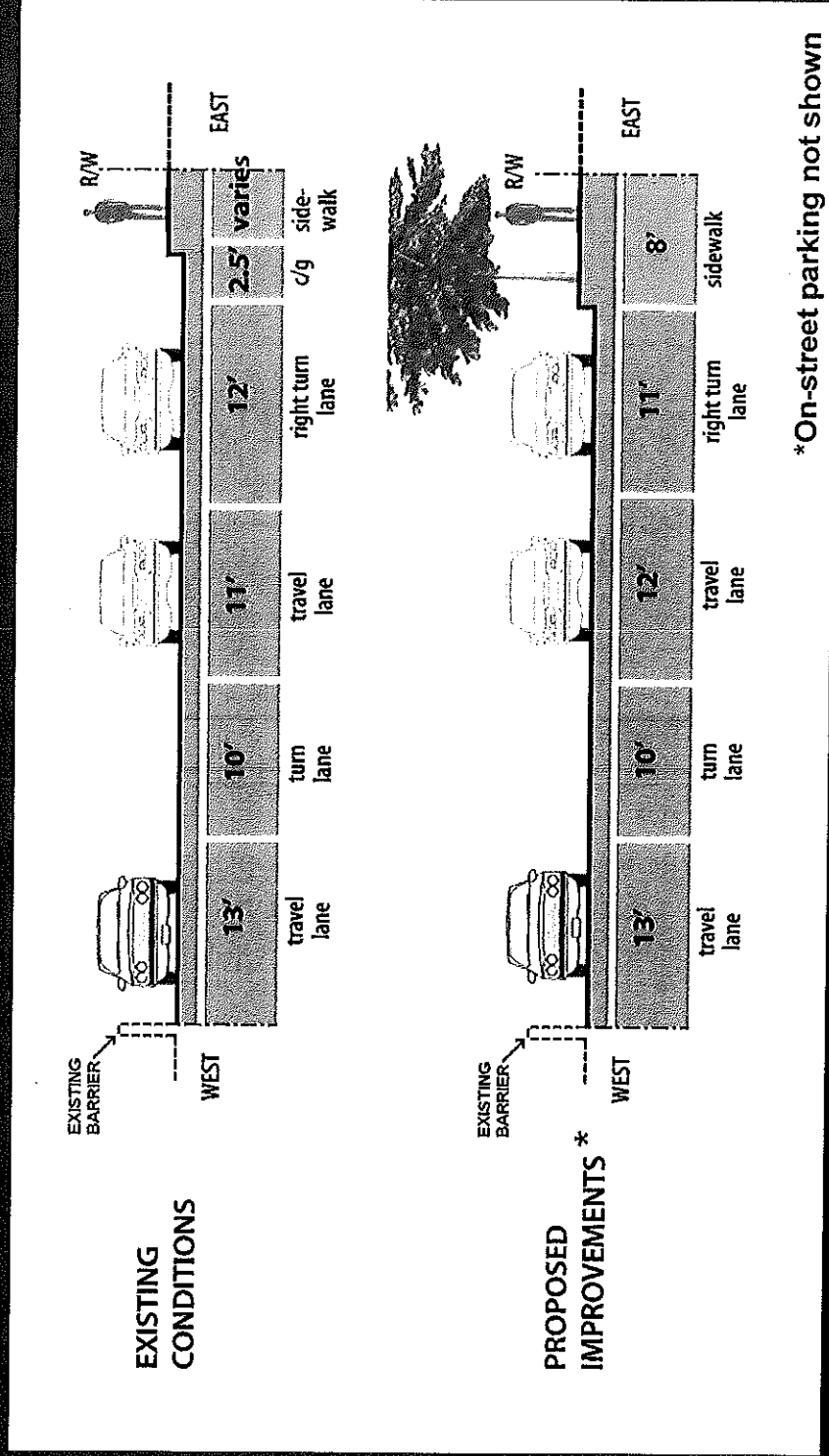
Medway Rd. To Hoag Ave.



Motel 6 Sign

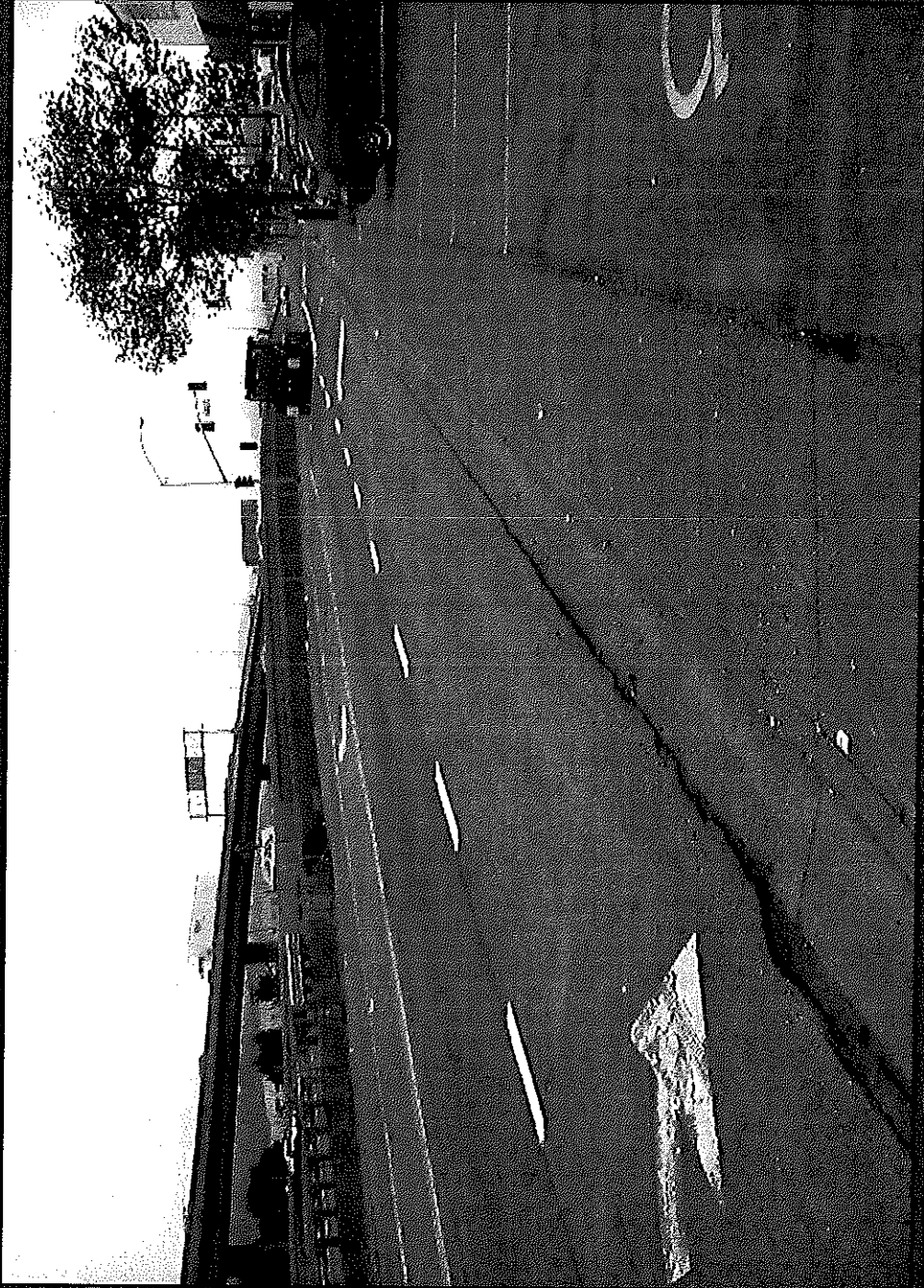
Proposed Cross Section

East Francisco Blvd. (Vivian St. to Medway Rd.)



Existing Conditions: E. Francisco Blvd

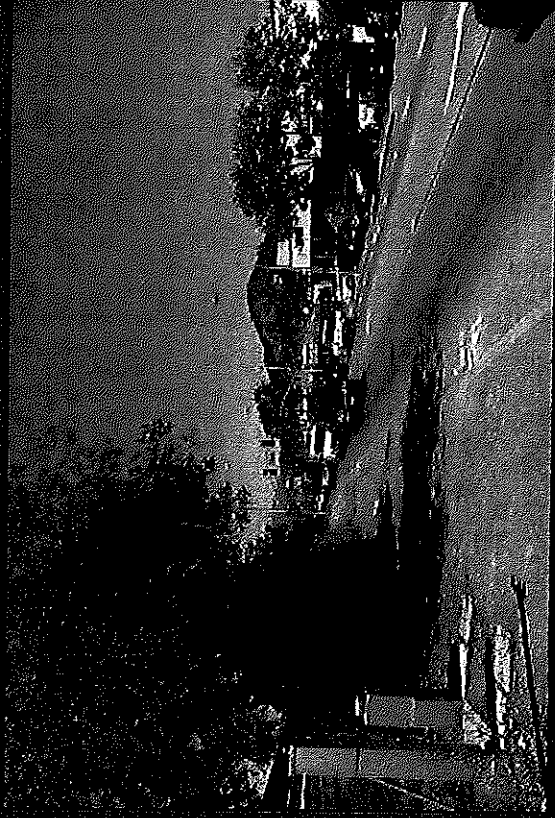
Vivian St. To Medway Rd.





Nonmotorized Transportation Pilot Program (NTPP)

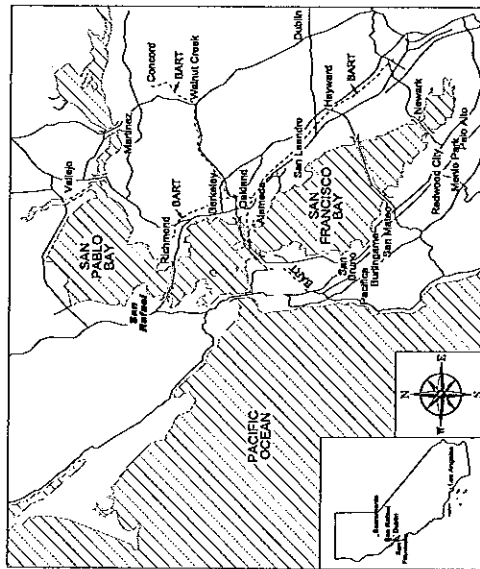
East Francisco Boulevard Pedestrian Pathway Improvement Project Phase 2 (Vivian Street to Grand Avenue)



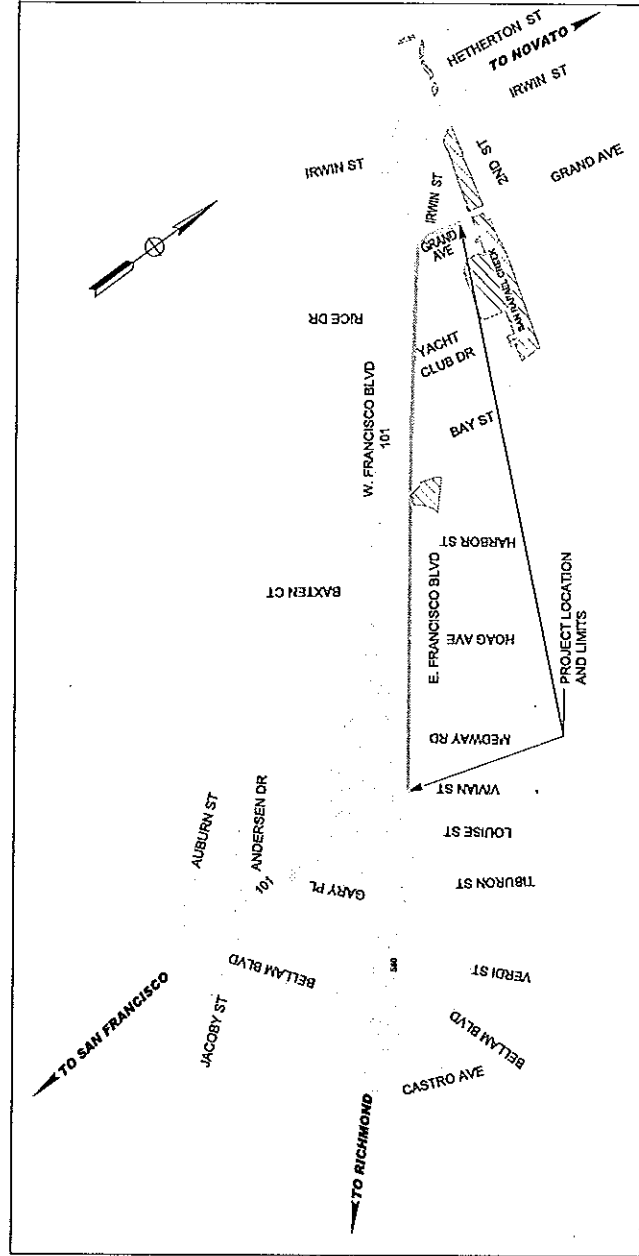
CITY OF SAN RAFAEL IMPROVEMENT PLANS

for

EAST FRANCISCO BOULEVARD FROM VIVIAN STREET TO GRAND AVENUE BRIDGE CITY PROJECT NO. 11114



VICINITY MAP
NTS



LOCATION MAP
NTS

DESIGNOR	REVISION BY	DATE
CHECKED		
APPROVED		
PROJECT NAME EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE		
DRAWING NAME COVER SHEET		
SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA		

JACOBS
180 PROVENANCE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 929-3223
FAX (916) 929-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



NOT TO SCALE
DATE 3/25/10
PROJECT NO.
SHEET NO. 6-1
DRAWING OF 55



PARVIZ MOKHTARI, PE PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF SAN RAFAEL

DATE	DATE
APPROVED	DESIGNED
CHECKED	BY
DRAWN	BY
DATE	DATE

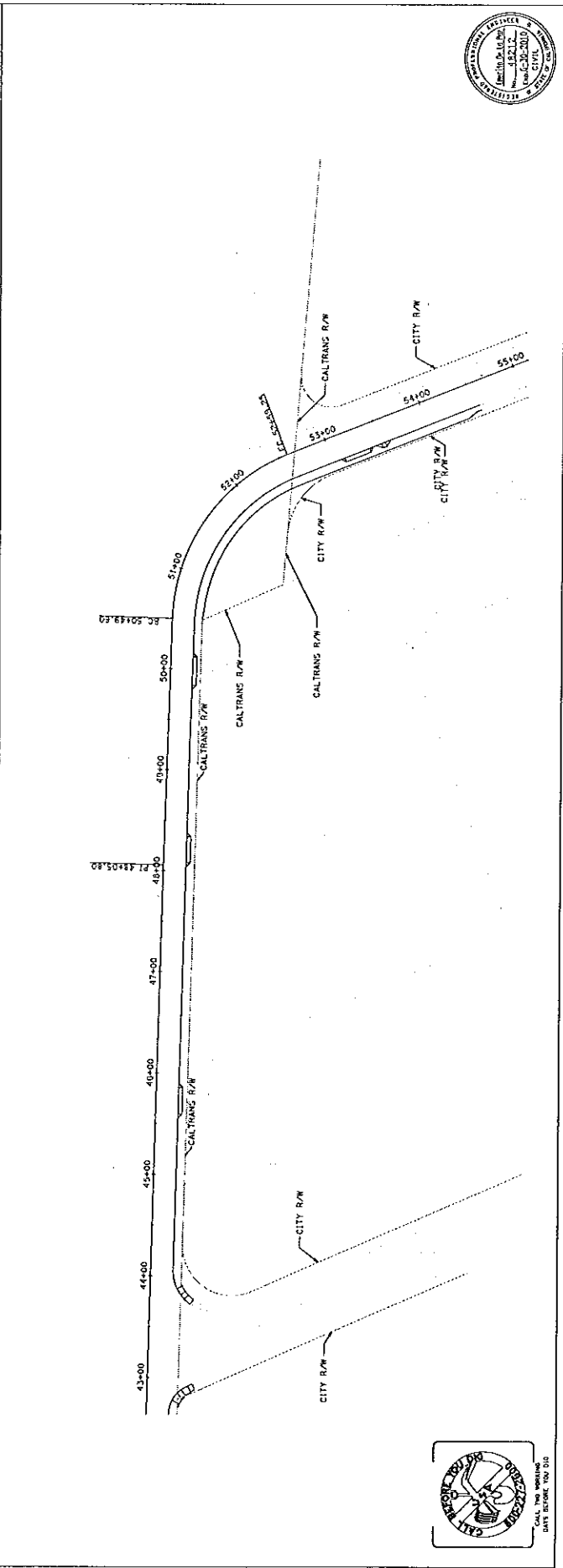
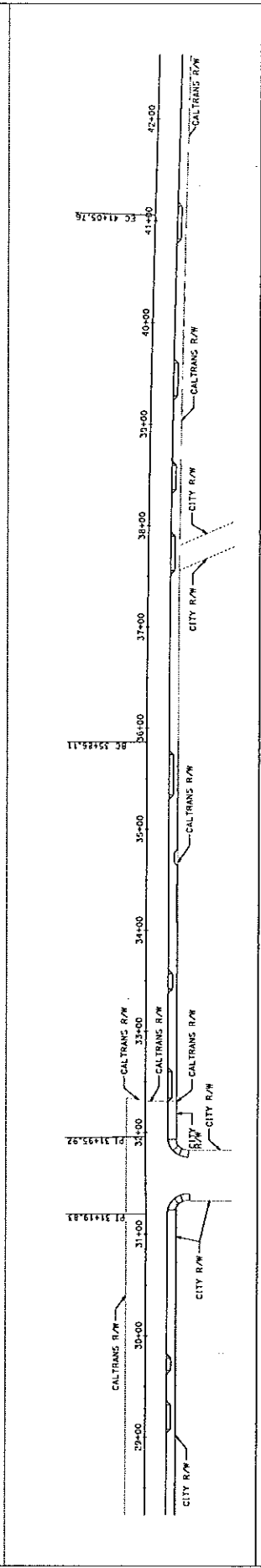
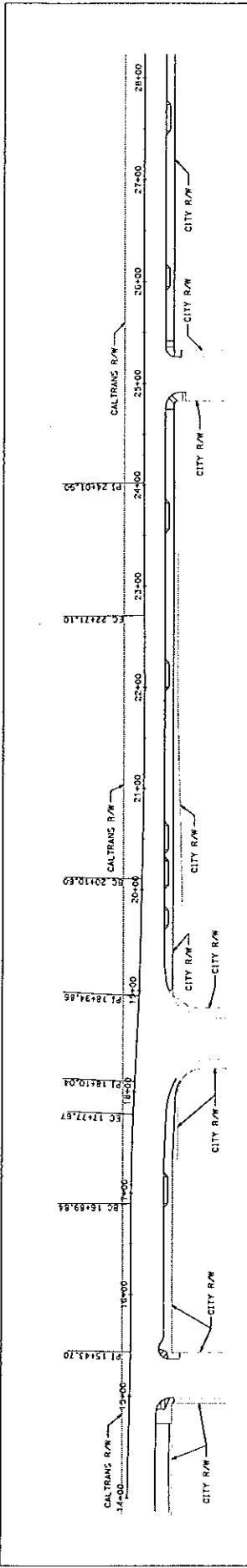
PROJECT HAVE
 EAST FRANCISCO BLVD.
 FROM VIAJAN ST. TO GRAND AVE. RAJICE
 DRAWING NAME
 RIGHT-OF-WAY
 INFORMATION SHEET
 SAN RAFAEL COUNTY OF YABIN CALIFORNIA

JACOBS
 160 PROVENDE CIRCLE STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



SCALE AS NOTED
 DATE 3/28/70
 PROJECT NO. 49212
 SHEET NO. 6-3
 DRAWING 3 OF 55

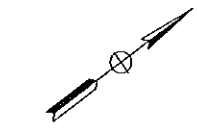


DESIGNED BY DATE	NO. REVISIONS BY DATE
CHECKED	
APPROVED	
DATE	DATE

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. ERIE
DRAWING NAME
DEMOLITION AND UTILITY PLAN
1400 TO 1850
SAY REPEL. COPYIT OF MAIN CALLING

JACOBS
160 PROVENDE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 929-3323
FAX (916) 929-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS
SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 68212
SHEET NO. D-1
DRAWING 5 OF 55



- NOTES:**
- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE PLAN SHEETS TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
 - FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
 - EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, GARDEN BOXES) TO BE CUT AND REMOVED SHALL BE RELOCATED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
 - ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN FOR EXISTING PALM TREE RELOCATION. SEE LANDSCAPE PLAN SHEETS.

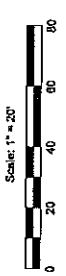
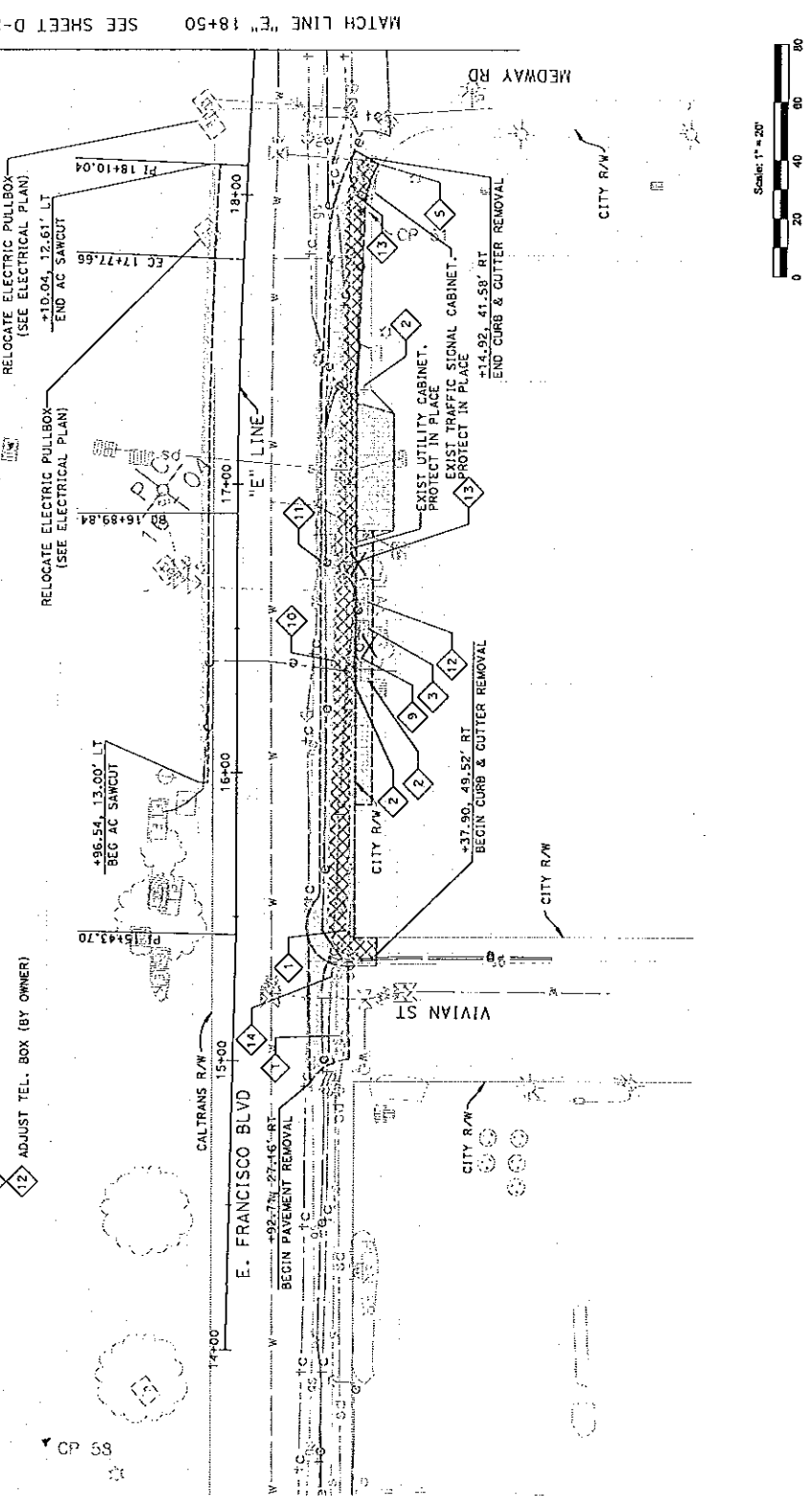
- ADJUST SD MANHOLE COVER TO GRADE
- ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- ADJUST CALTRANS OWNED PULL BOX TO GRADE
- ADJUST WATER METER TO GRADE (BY OWNER)
- RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- ADJUST UTILITY OFFSET MONUMENT TO GRADE
- ADJUST WATER VALVE TO GRADE (BY OWNER)
- ADJUST CATV BOX TO GRADE (BY OWNER)
- ADJUST SANITARY SEWER CLEANOUT TO GRADE
- ADJUST GAS VALVE TO GRADE (BY OWNER)
- ADJUST TEL. BOX (BY OWNER)

LEGEND:

- REMOVE PAVEMENT / EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

UNDERGROUND UTILITY CONTACT INFORMATION:

PGE (415)257-3405
AT&T (415)499-4828
MMWD (415)945-1154
COMCAST (408)426-7707
SRSD (415)485-3132
LAS GALLINAS VALLEY SANITARY DIST. (415)472-1734



MATCH LINE "E" 18+50 SEE SHEET D-2



CALL THE WORKING PARTS DEPARTMENT FOR MORE INFORMATION

DATE	APPROVED	DATE
DATE	REVISION	DATE

JACOBS
 150 PROVENDE CRUCE, SUITE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3333
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/26/10
 PROJECT NO. 48212
 SHEET NO. D-3
 DRAWING OF 55

PROJECT NAME
 EAST FRANCISCO BLVD.
 FROM VIOLA ST. TO GRAY AVE. BRIDGE

DEMOLITION AND UTILITY PLAN
 E. 23+50 TO 28+50
 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA

PROJECT NAME
 EAST FRANCISCO BLVD.
 FROM VIOLA ST. TO GRAY AVE. BRIDGE

DEMOLITION AND UTILITY PLAN
 E. 23+50 TO 28+50
 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA

PROJECT NAME
 EAST FRANCISCO BLVD.
 FROM VIOLA ST. TO GRAY AVE. BRIDGE

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DEMOLITION AND UTILITY PLAN
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 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA

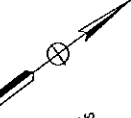
PROJECT NAME
 EAST FRANCISCO BLVD.
 FROM VIOLA ST. TO GRAY AVE. BRIDGE

DEMOLITION AND UTILITY PLAN
 E. 23+50 TO 28+50
 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA

PROJECT NAME
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DEMOLITION AND UTILITY PLAN
 E. 23+50 TO 28+50
 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA

PROJECT NAME
 EAST FRANCISCO BLVD.
 FROM VIOLA ST. TO GRAY AVE. BRIDGE

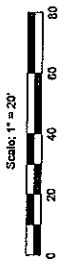
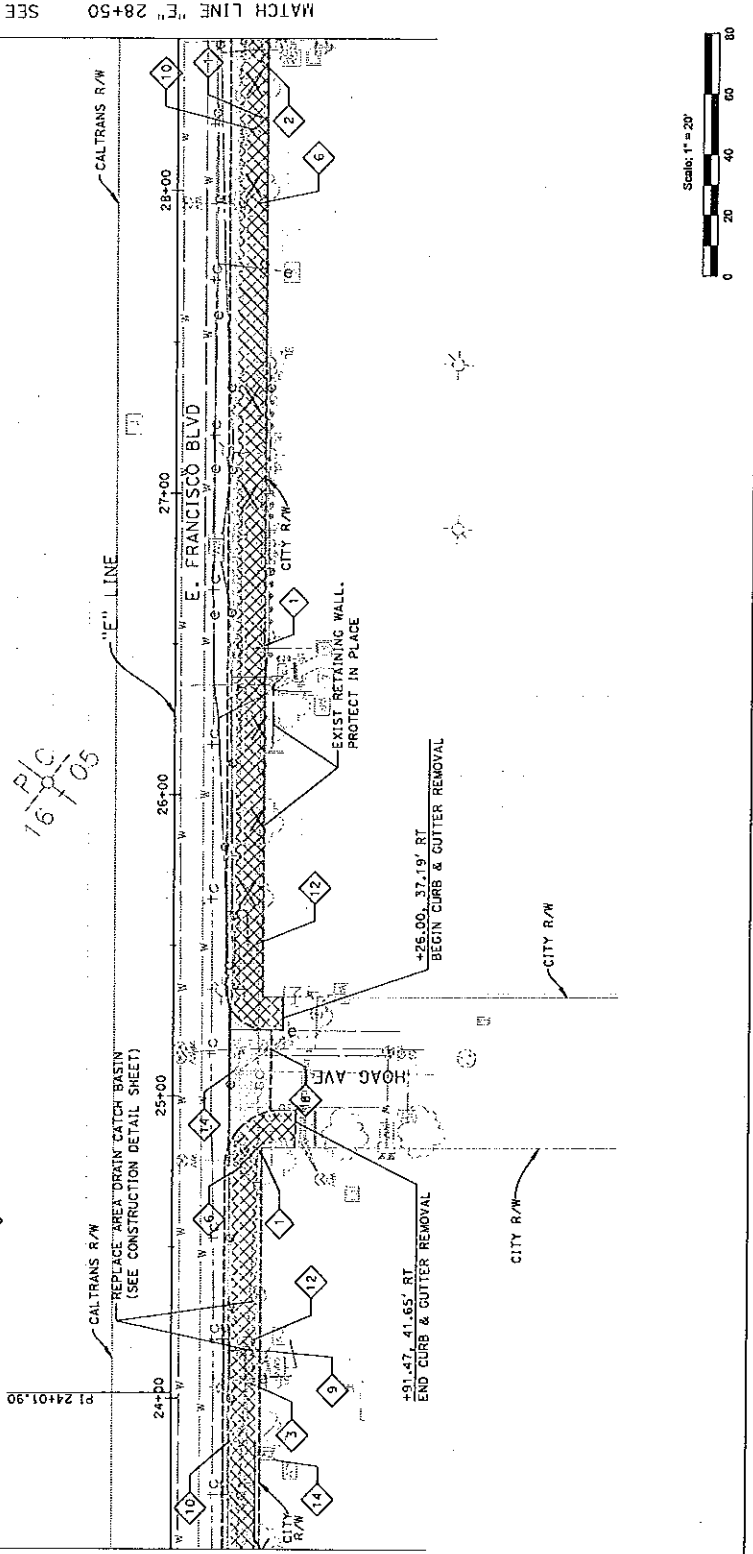


NOTES:

- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
- EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
- ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
- EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
- ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
- SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
- FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

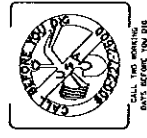
LEGEND:

- 1 REMOVE PAVEMENT/ EXCAVATION AREA
- 2 REMOVE CONCRETE SIDEWALK CURB, CUTTER & DRIVEWAY
- 3 REMOVE TREE
- 4 ADJUST CITY OWNED PULLBOX TO GRADE
- 5 ADJUST 55 MANHOLE COVER TO GRADE
- 6 ADJUST 55 MANHOLE COVER TO GRADE
- 7 ADJUST SD MANHOLE COVER TO GRADE
- 8 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 9 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 10 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 11 ADJUST WATER METER TO GRADE (BY OWNER)
- 12 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- 13 CONTACT MWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 14 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 15 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 16 ADJUST CATY BOX TO GRADE (BY OWNER)
- 17 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 18 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 19 ADJUST TEL. BOX (BY OWNER)



MATCH LINE "E" 23+50 SEE SHEET D-2

MATCH LINE "E" 28+50 SEE SHEET D-4

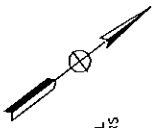


DATE	DATE	DATE	DATE
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
PROJECT NAME	PROJECT NO.	SHEET NO.	DRAWING 8 OF 55

JACOBS
 169 PROSVENDE CIRCLE, STE 309
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 928-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/26/10
 PROJECT NO. 48212
 SHEET NO. D-4
 DRAWING 8 OF 55

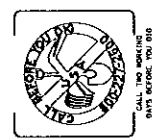
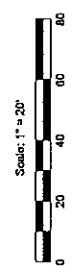
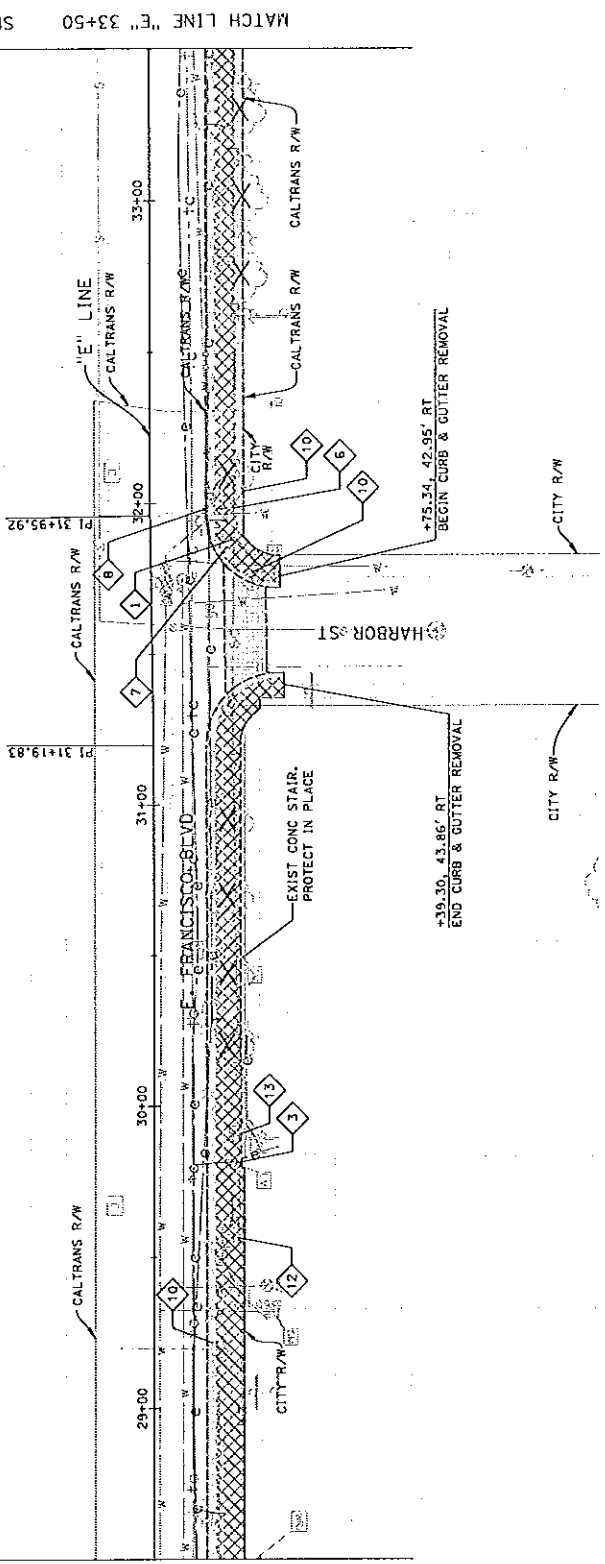


- NOTES:**
- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
 - EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
 - FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB LINE TO THE NEAREST POINT OF THE CITY OF SAN RAFAEL. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
 - EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
 - ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION. SANITARY SEWER, WATER, GAS, AND TELEPHONE LINES SHALL BE MARKED AND DEPTH VERIFIED. ALL RELOCATION SHALL BE ALONG EXISTING SIDEWALK OR EXPANSION JOINT ONLY. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
 - FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

- ADJUST 50 MANHOLE COVER TO GRADE
- ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- ADJUST CALTRANS OWNED PULL BOX TO GRADE
- ADJUST WATER METER TO GRADE (BY OWNER)
- RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- CONTACT MHD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- ADJUST UTILITY OFFSET MONUMENT TO GRADE
- ADJUST WATER VALVE TO GRADE (BY OWNER)
- ADJUST CATV BOX TO GRADE (BY OWNER)
- ADJUST SANITARY SEWER CLEANOUT TO GRADE
- ADJUST GAS VALVE TO GRADE (BY OWNER)
- ADJUST TEL. BOX (BY OWNER)

- LEGEND:**
- REMOVE PAVEMENT / EXCAVATION AREA
 - REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
 - SANOUT LINE
 - REMOVE TREE

MATCH LINE "E" 28+50 SEE SHEET D-3



DATE	DATE
APPROVED	APPROVED
DESIGNED	DESIGNED
PROJECT NAME	PROJECT NAME
EAST FRANCISCO BLVD.	
FROM VIVIAN ST. TO GRAND AVE. ERIE	
DEVIATION AND UTILITY PLAN	
450 TO 5850	
SAN RAFAEL COUNTY OF MARY CALIFORNIA	

JACOBS
 180 PROMENADE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 823-3233
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

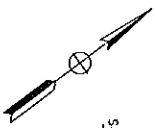
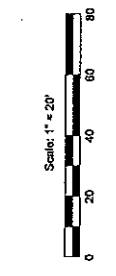
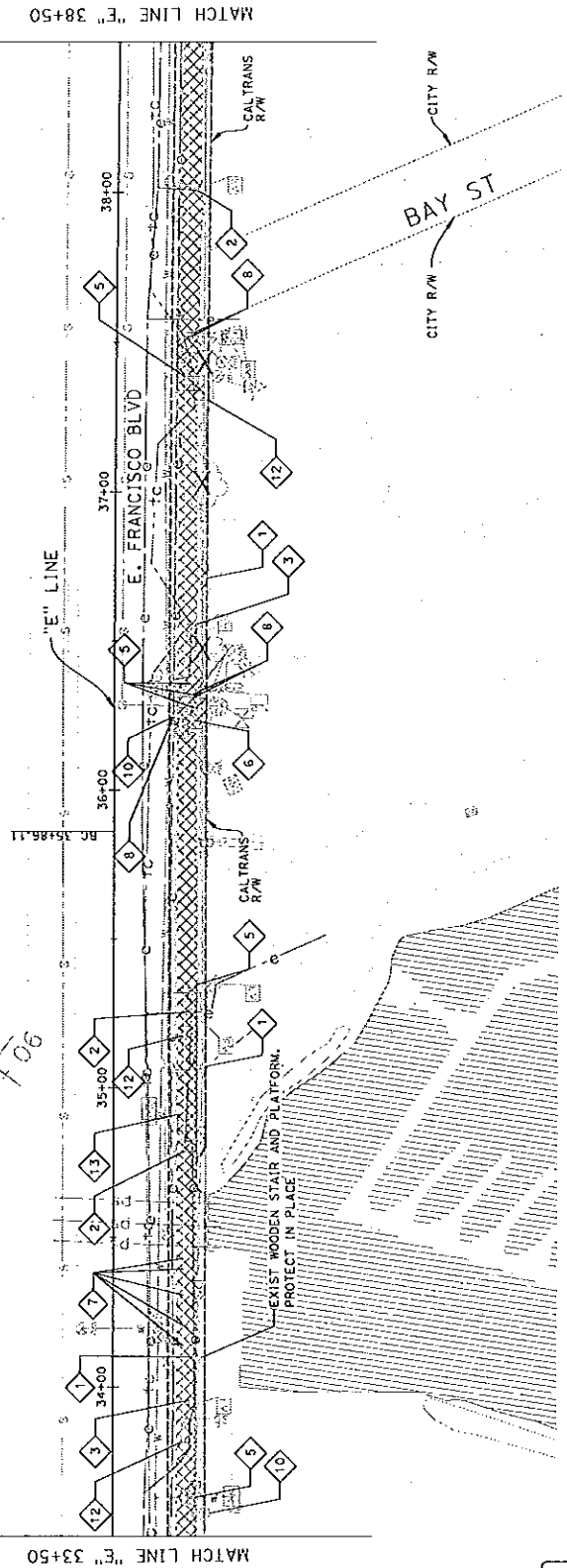
SCALE AS NOTED
 DATE 3/26/10
 PROJECT NO. 48212
 SHEET NO. D-5
 DRAWING 9 OF 55



- NOTES:**
- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
 - EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
 - FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE EXISTING FIRE HYDRANT TO THE NEW LOCATION. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
 - EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
 - ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY OWNERS TO RELOCATE OR REMOVE ALL SERVICE LINES. ALL EXISTING WEAKENED OR EXPANDED JOINT ONLY ALONG EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
 - FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

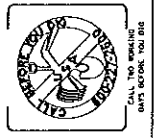
- ADJUST SD MANHOLE COVER TO GRADE
- ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- ADJUST CALTRANS OWNED PULL BOX TO GRADE
- ADJUST WATER METER TO GRADE (BY OWNER)
- RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- ADJUST UTILITY OFFSET MONUMENT TO GRADE
- ADJUST WATER VALVE TO GRADE (BY OWNER)
- ADJUST CATV BOX TO GRADE (BY OWNER)
- ADJUST SANITARY SEWER CLEANOUT TO GRADE
- ADJUST GAS VALVE TO GRADE (BY OWNER)
- ADJUST TEL. BOX (BY OWNER)

- LEGEND:**
- REMOVE PAVEMENT/ EXCAVATION AREA
 - REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
 - SANICUT LINE
 - REMOVE TREE



MATCH LINE "E" 38+50 SEE SHEET D-6

MATCH LINE "E" 33+50 SEE SHEET D-4



CALL THE WORKING DAYS BEFORE YOU BID

DESIGNED	DATE
CHECKED	DATE
APPROVED	DATE
PROJECT NAME	
PROJECT NO.	
DRAWING NO.	
SHEET NO.	
DRAWING TO GO	

JACOBS
 189 PROVENDE CRCL, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3223
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS
 SCALE AS NOTED
 DATE 3/26/10
 PROJECT NO. 48212
 SHEET NO. D-6
 DRAWING TO GO 55

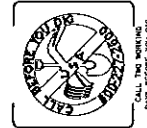
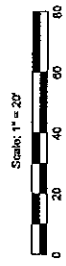
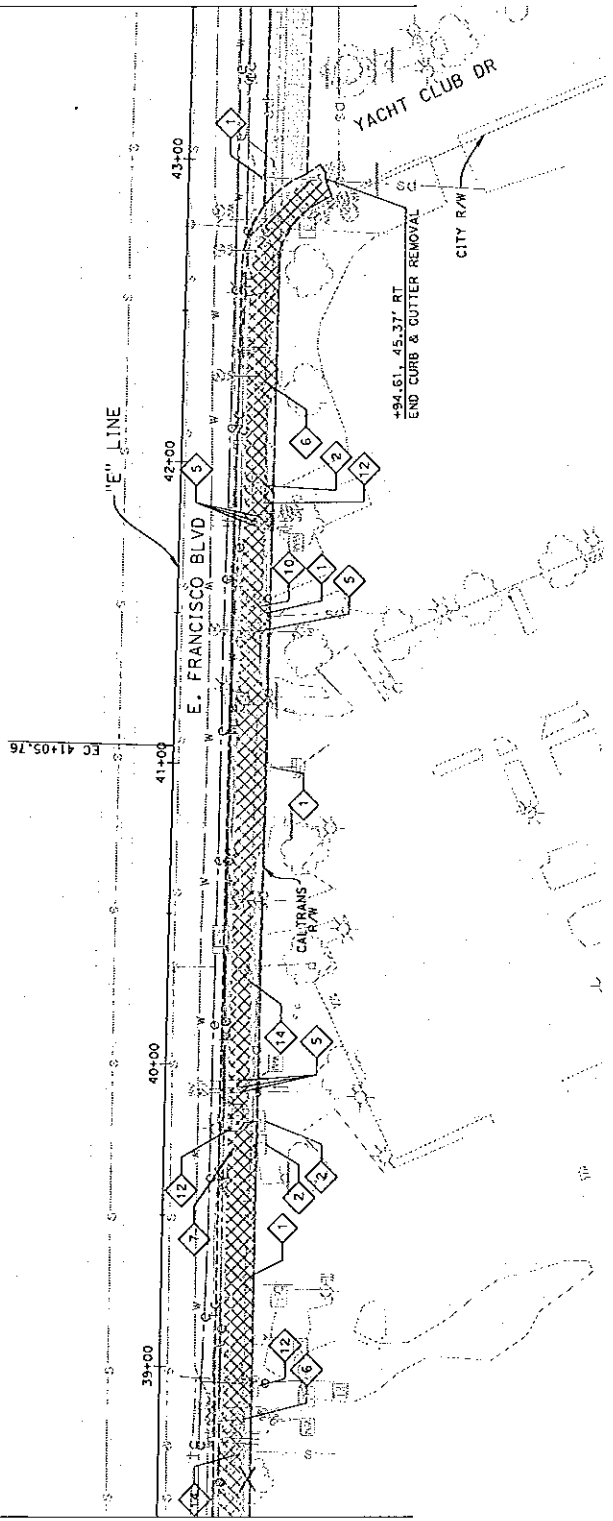
- NOTES:**
- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
 - EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS.
 - FOR ALL UTILITIES TO BE RELOCATED, 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE FLOWLINE. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
 - EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
 - ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY R/W. THE CITY AND PROPERTY OWNERS PRIOR TO RELOCATION. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
 - FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

- ADJUST CITY OWNED PULLBOX TO GRADE
- ADJUST SS MANHOLE COVER TO GRADE
- ADJUST SD MANHOLE COVER TO GRADE
- ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- ADJUST CALTRANS OWNED PULL BOX TO GRADE
- ADJUST WATER METER TO GRADE (BY OWNER)
- RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- CONTACT MMWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- ADJUST UTILITY OFFSET MONUMENT TO GRADE
- ADJUST WATER VALVE TO GRADE (BY OWNER)
- ADJUST CATV BOX TO GRADE (BY OWNER)
- ADJUST SANITARY SEWER CLEANOUT TO GRADE
- ADJUST GAS VALVE TO GRADE (BY OWNER)
- ADJUST TEL. BOX (BY OWNER)

- LEGEND:**
- REMOVE PAVEMENT/ EXCAVATION AREA
 - REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
 - SAWCUT LINE
 - REMOVE TREE

MATCH LINE "E" 38+50 SEE SHEET D-5

MATCH LINE "E" 43+50 SEE SHEET D-7



CALL THE WORKING DAYS BEFORE YOU DIE

DATE	APPROVED	DATE
DESIGNED	CHECKED	DATE
BY	BY	
REVISOR	REVISION	
NO.	DESCRIPTION	DATE

JACOBS
 160 PROVENANCE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 829-3223
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/28/10
 PROJECT NO. 48212
 SHEET NO. D-7
 DRAWING TITLE OF 55



NOTES:

- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
- EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
- FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOORLINE TO THE NEAREST POINT ON THE ADJACENT LOT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
- EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
- ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY, AND PROPERTY OWNERS PRIOR TO RELOCATION.
- ALL EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE REMOVED AND WEAKENED OR EXPANDED ON POINT ONLY. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
- FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

- 1 ADJUST SD MANHOLE COVER TO GRADE
- 2 ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- 3 ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- 4 ADJUST CALTRANS OWNED PULL BOX TO GRADE
- 5 ADJUST WATER METER TO GRADE (BY OWNER)
- 6 RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- 7 CONTACT MWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- 8 ADJUST UTILITY OFFSET MONUMENT TO GRADE
- 9 ADJUST WATER VALVE TO GRADE (BY OWNER)
- 10 ADJUST CATV BOX TO GRADE (BY OWNER)
- 11 ADJUST SANITARY SEWER CLEANOUT TO GRADE
- 12 ADJUST GAS VALVE TO GRADE (BY OWNER)
- 13 ADJUST TEL. BOX (BY OWNER)
- 14 ADJUST CITY OWNED PULLBOX TO GRADE
- 15 ADJUST SS MANHOLE COVER TO GRADE

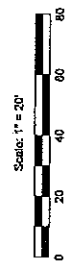
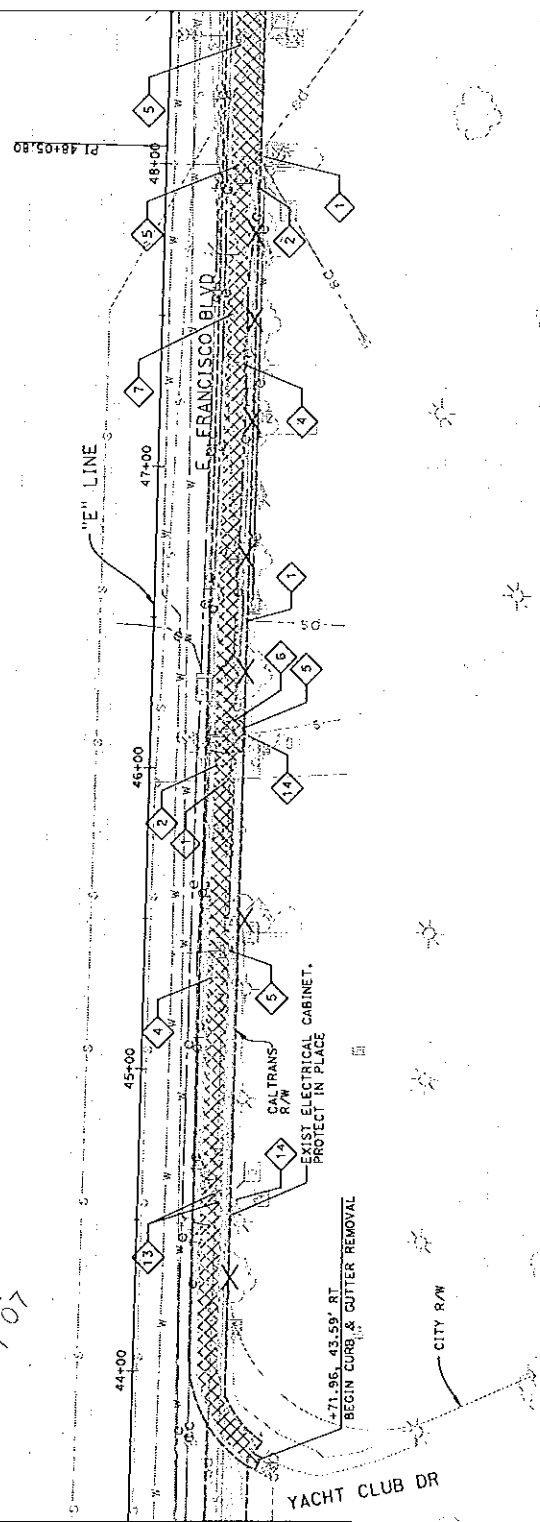
LEGEND:

- REMOVE PAVEMENT/ EXCAVATION AREA
- REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
- SAWCUT LINE
- REMOVE TREE

MATCH LINE "E" 48+50 SEE SHEET D-8

MATCH LINE "E" 43+50 SEE SHEET D-6

16707
 PLC

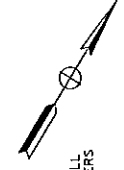
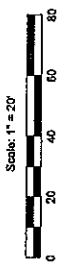


DATE	APPROVED	DATE
DESIGNED BY DATE	CHECKED	DATE

JACOBS
 PROJECT NAME: EAST FRANCISCO BLD.
 DEMOLITION AND UTILITY PLAN
 E. 48+50 TO 52+50
 SAN RAFAEL COUNTY OF WASHINGTON, CALIFORNIA
 FROM VIKAY ST. TO GRAND AVE. BRIDGE

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS
 160 PROVENDE CIRCLE, STE 200
 SACRAMENTO, CA 95834
 PHONE (916) 922-2323
 FAX (916) 922-1772

SCALE AS NOTED
 DATE: 3/25/10
 PROJECT NO.: 48212
 SHEET NO.: D-8
 DRAWING: 2 OF 55

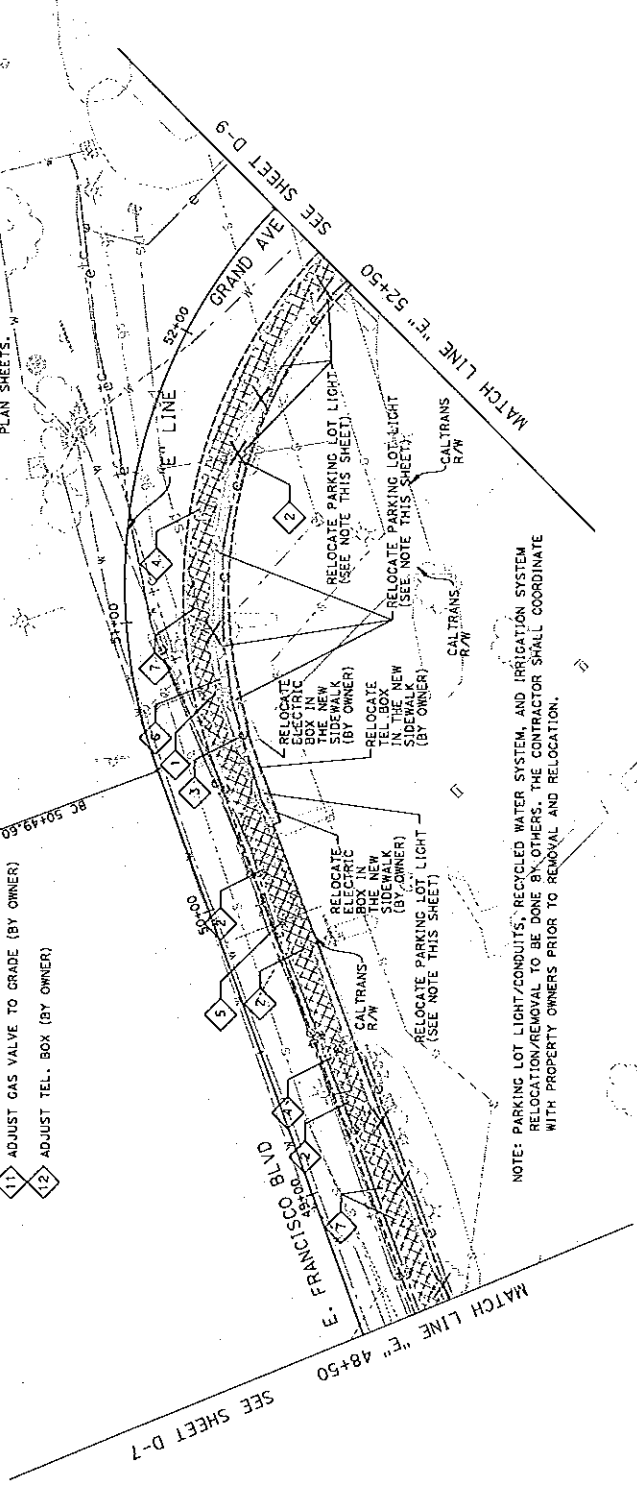


NOTES:

- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
- EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS.
- FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOWLINE TO THE NEAREST POINT ON THE FIRE HYDRANT. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
- EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
- ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE RELOCATED TO THE RIGHT-OF-WAY LINE TO THE RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND PROPERTY OWNERS PRIOR TO RELOCATION. SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
- RELOCATING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

- ADJUST CITY OWNED PULL BOX TO GRADE
- ADJUST 55 MANHOLE COVER TO GRADE
- ADJUST SD MANHOLE COVER TO GRADE (BY OWNER)
- ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- ADJUST CALTRANS OWNED PULL BOX TO GRADE
- ADJUST WATER METER TO GRADE (BY OWNER)
- RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- CONTACT MAWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- ADJUST UTILITY OFFSET MONUMENT TO GRADE
- ADJUST WATER VALVE TO GRADE (BY OWNER)
- ADJUST CATV BOX TO GRADE (BY OWNER)
- ADJUST SANITARY SEWER CLEANOUT TO GRADE
- ADJUST GAS VALVE TO GRADE (BY OWNER)
- ADJUST TEL. BOX (BY OWNER)

- LEGEND:**
- REMOVE PAVEMENT/ EXCAVATION AREA
 - REMOVE CONCRETE SIDEWALK CURB, CUTTER & DRIVEWAY
 - SAWCUT LINE
 - REMOVE TREE



NOTE: PARKING LOT LIGHTS/CONDUITS, RECYCLED WATER SYSTEM, AND IRRIGATION SYSTEM RELOCATION/REMOVAL TO BE DONE BY OTHERS. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS PRIOR TO REMOVAL AND RELOCATION.

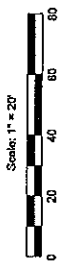


DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

PROJECT NAME
 EAST FRANCISCO BLD.
 FROM VIKING ST. TO GRAND AVE. BRIDGE
 DEMOLITION AND UTILITY PLAN
 52+50 TO 57+00
 180 PROVENANCE CORSE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 928-2323
 FAX (916) 928-1772
 SAN RAFAEL COUNTY OF MARTIN CALIFORNIA

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/25/10
 PROJECT NO. 48212
 SHEET NO. D-9
 DRAWING 13 OF 55

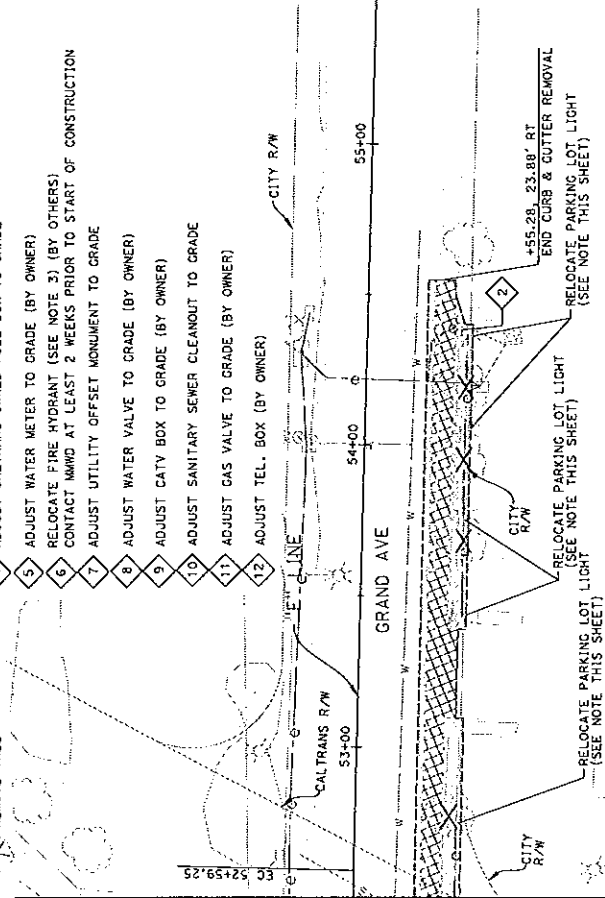


NOTES:

- FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
- EXISTING UTILITY FACILITIES TO BE RELOCATED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
- FIRE HYDRANT SHALL BE RELOCATED 18" FROM THE CURB FLOORLINE TO THE NEAREST POINT ON THE LOCATION. SEE CONSTRUCTION PLANS FOR NEW LOCATION.
- EXISTING PRIVATE FACILITIES (WALLS, WALKWAYS, PLANTER BOXES) TO BE CUT AND REMOVED SHALL BE REMOVED ALONG RIGHT OF WAY LINE USING CLEAN CUT LINES.
- ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITIES FOR RELOCATION.
- SAW CUT ON EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE ALONG EXISTING WEAKEND OR EXPANSION JOINT ONLY.
- ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
- FOR EXISTING PALM TREE RELOCATION, SEE LANDSCAPE PLAN SHEETS.

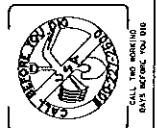
- ADJUST CITY OWNED PULLBOX TO GRADE
- ADJUST SS MANHOLE COVER TO GRADE
- ADJUST SD MANHOLE COVER TO GRADE
- ADJUST ELECTRICAL BOX TO GRADE (BY OWNER)
- ADJUST ELECTRIC VAULT TO GRADE (BY OWNER)
- ADJUST CALTRANS OWNED PULL BOX TO GRADE
- ADJUST WATER METER TO GRADE (BY OWNER)
- RELOCATE FIRE HYDRANT (SEE NOTE 3) (BY OTHERS)
- CONTACT MWD AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION
- ADJUST UTILITY OFFSET MONUMENT TO GRADE
- ADJUST WATER VALVE TO GRADE (BY OWNER)
- ADJUST CATV BOX TO GRADE (BY OWNER)
- ADJUST SANITARY SEWER CLEANOUT TO GRADE
- ADJUST GAS VALVE TO GRADE (BY OWNER)
- ADJUST TEL. BOX (BY OWNER)

- LEGEND:**
- REMOVE PAVEMENT/ EXCAVATION AREA
 - REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY
 - SAWCUT LINE
 - REMOVE TREE

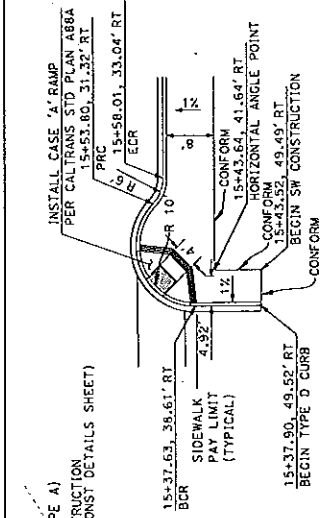
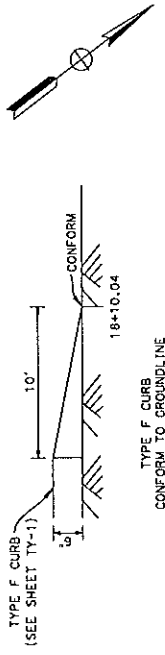


NOTE: PARKING LOT LIGHT/CONDUITS, RECYCLED WATER SYSTEM, AND IRRIGATION SYSTEM RELOCATION/REMOVAL TO BE DONE BY OTHERS. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS PRIOR TO REMOVAL AND RELOCATION.

MATCH LINE "E" 52+50 SEE SHEET D-8



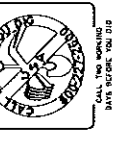
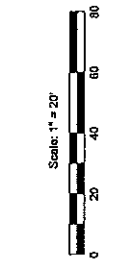
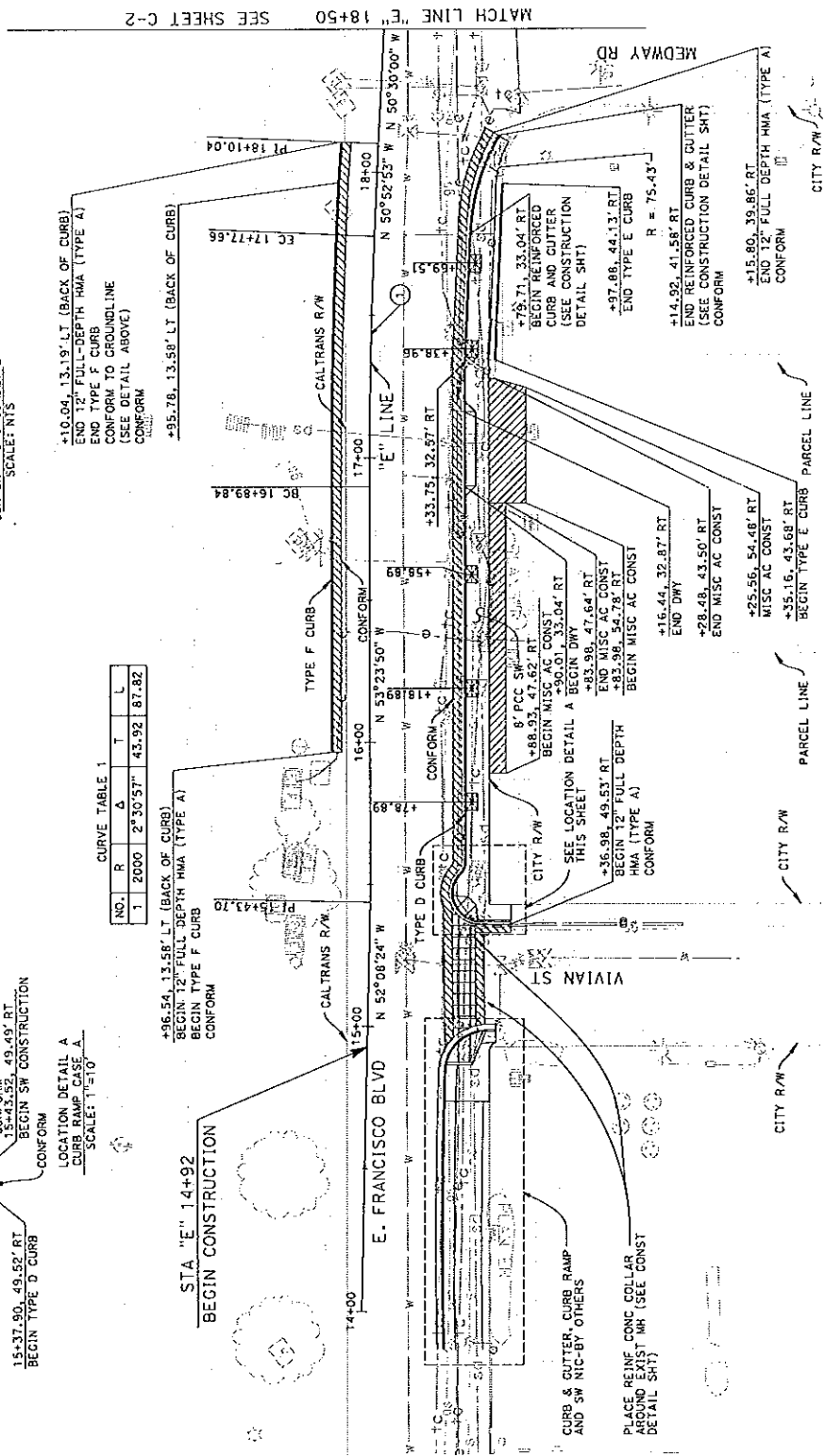
NOTE:
 1. FOR UTILITY RELOCATION OR ADJUSTMENT, SEE DRAINAGE INFORMATION.
 2. FOR STORM DRAINAGE PLANS, SEE CONSTRUCTION DETAILS FOR MISCELLANEOUS AC CONSTRUCTION.







CURVE TABLE 1

NO.	R	Δ	T	L
1	2000	2°30'57"	43.92	87.82

- LEGEND:
- 12" FULL DEPTH HMA (TYPE A)
 - MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
 - CONCRETE CROSSWALK
 - 4' x 6' TREE WELL

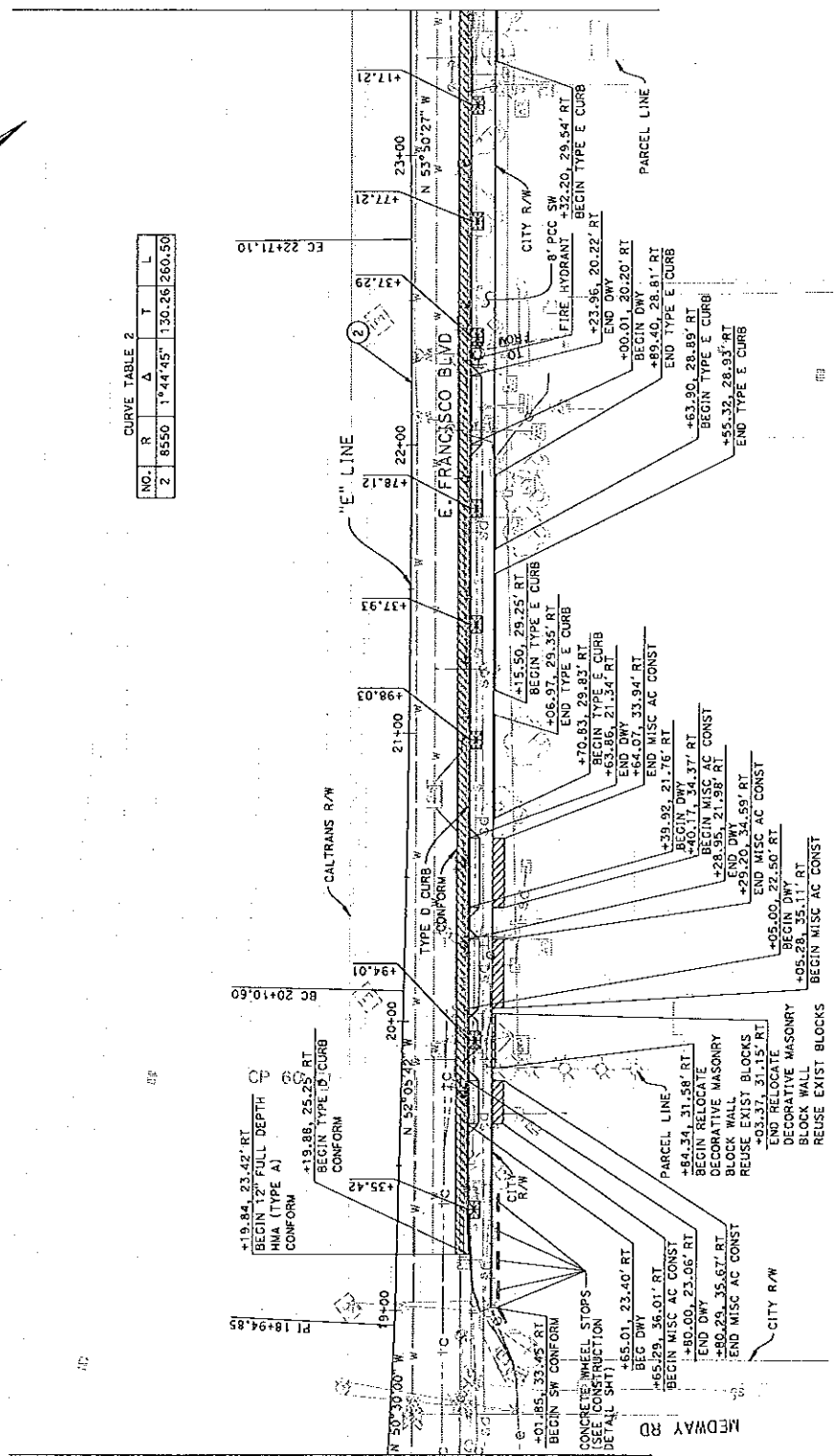


LEGEND:

-  12" FULL DEPTH HMA (TYPE A)
-  MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
-  CONCRETE CROSSWALK
-  4' x 6' TREE WELL

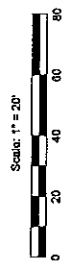
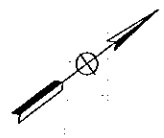
MATCH LINE "E" 18+50 SEE SHEET C-1

MATCH LINE "E" 23+50 SEE SHEET C-3



CURVE TABLE 2

NO.	R	Δ	T	L
2	8550	1°44'45"	130.26	260.50



DESIGNED BY DATE	APPROVED DATE
CHECKED DATE	DATE
DRAN DATE	DATE
REVISOR DATE	DATE
REVISOR DATE	DATE
REVISOR DATE	DATE
REVISOR DATE	DATE
REVISOR DATE	DATE
REVISOR DATE	DATE
REVISOR DATE	DATE

JACOBS
 180 PROVENANCE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 928-3333
 FAX (916) 928-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE: 3/28/10
 PROJECT NO.: 08P232
 SHEET NO.: C-2
 DRAWING NO.: 50



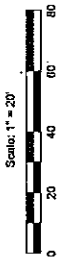
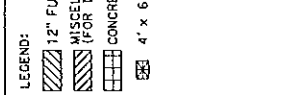
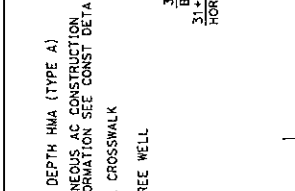
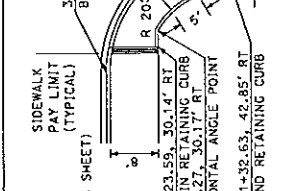
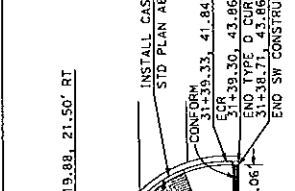
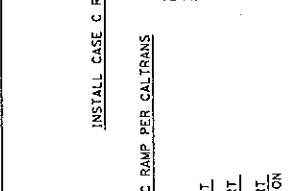
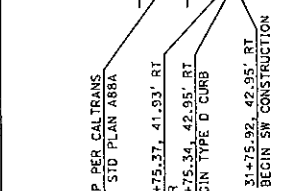
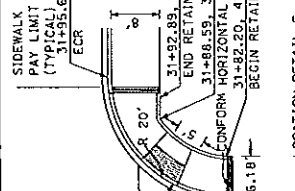
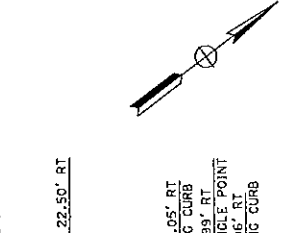
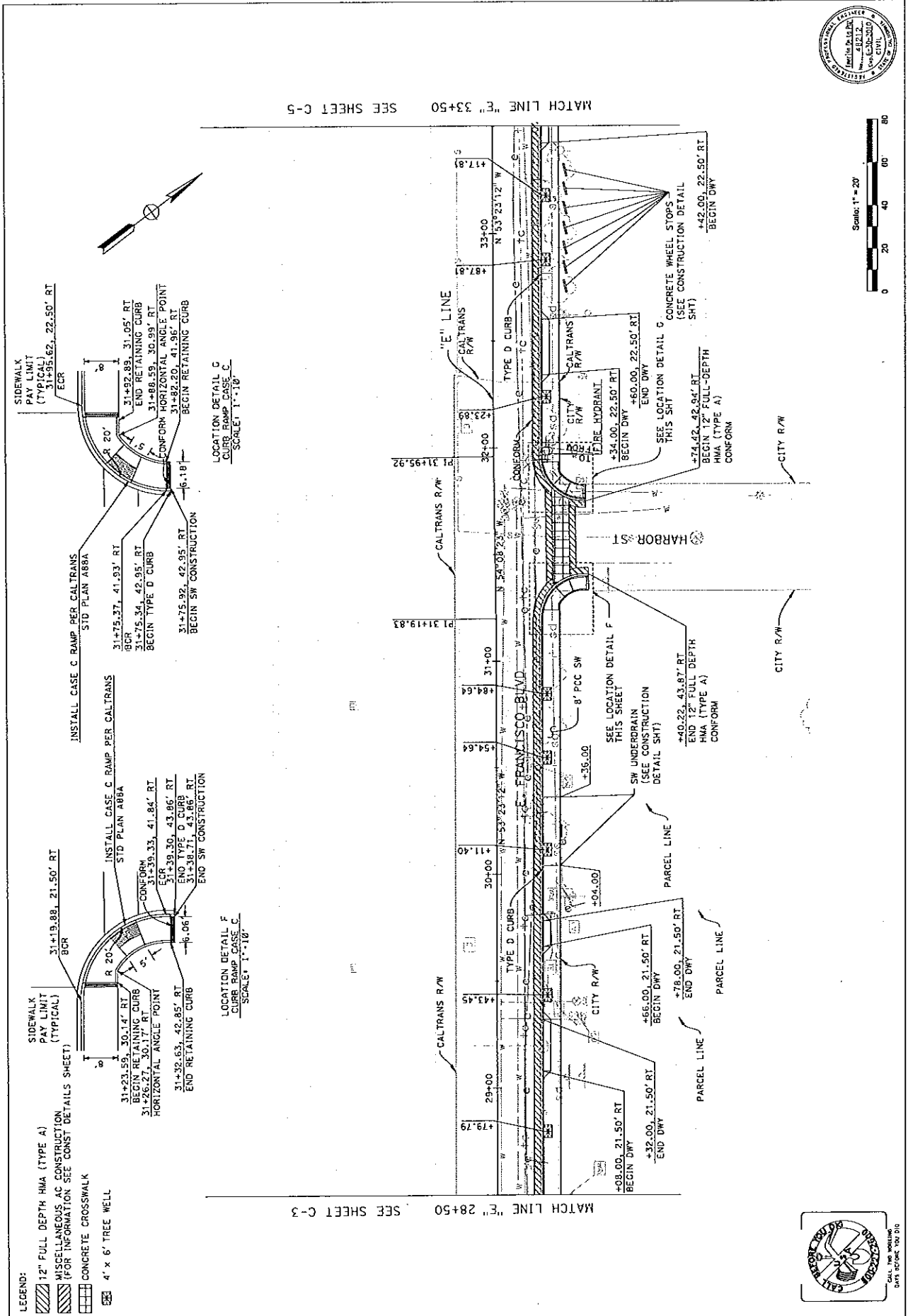
CALL THE WORKING DATE BEFORE THE JOB

PROJECT NAME: EAST FRANCISCO BLVD.
 DRAWING NO.: C-4
 SHEET NO.: C-4
 DATE: 3/26/10
 SCALE: AS NOTED
 PROJECT: 48212
 DRAWING: 170F-55

JACOBS
 160 PROMENADE CIRCLE, STE 200
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

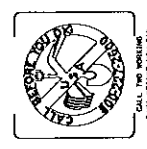
SEAL: AS NOTED
 DATE: 3/26/10
 PROJECT: 48212
 SHEET NO.: C-4
 DRAWING: 170F-55



LEGEND:
 [Symbol] 12" FULL DEPTH HMA (TYPE A)
 [Symbol] MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
 [Symbol] CONCRETE CROSSWALK
 [Symbol] 4' x 6' TREE WELL

MATCH LINE "E" 33+50 SEE SHEET C-5

MATCH LINE "E" 28+50 SEE SHEET C-3



DESIGNED BY	DATE
CHECKED	DATE
APPROVED	DATE

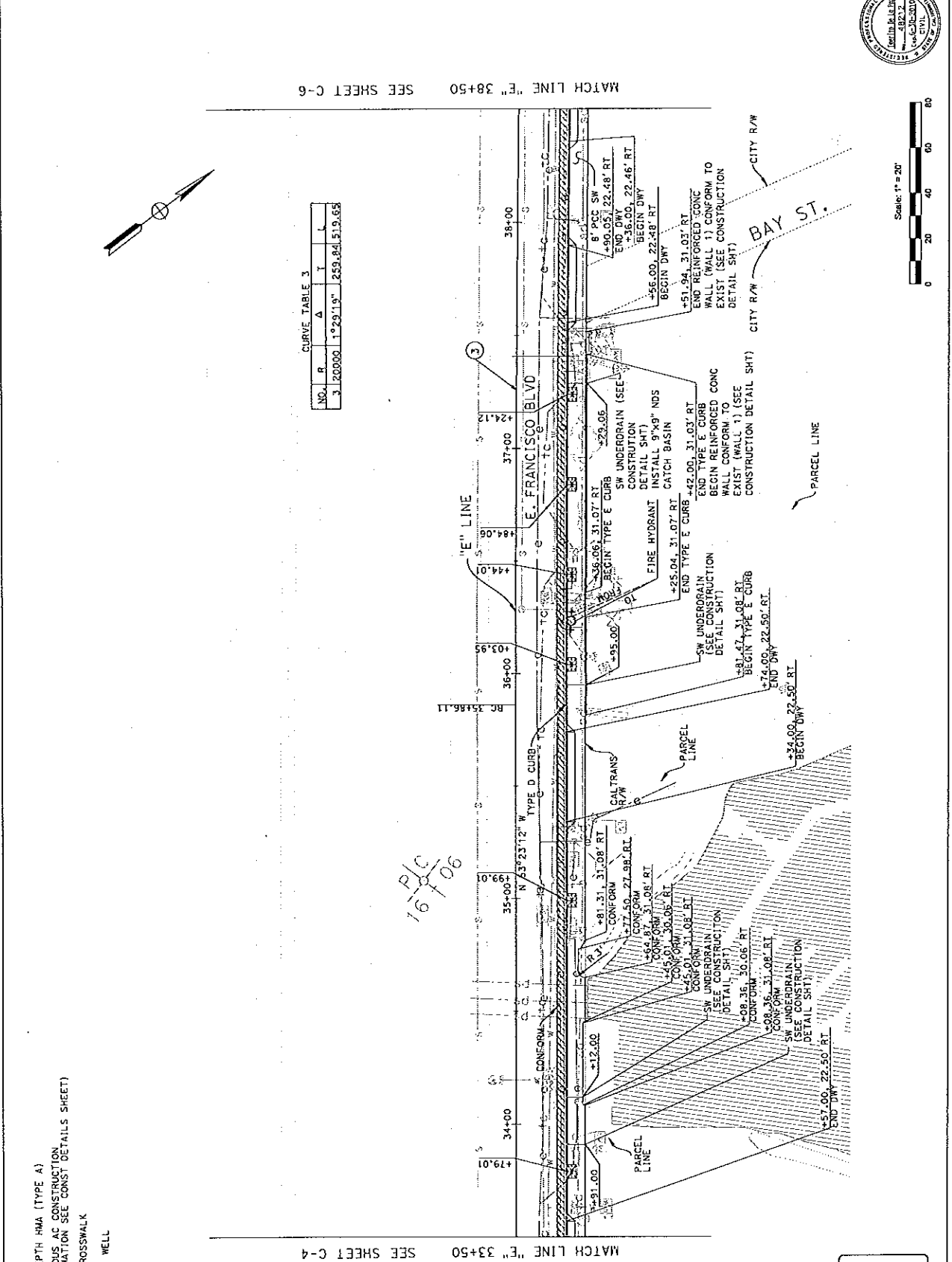
PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIGILAN ST. TO GRAND AVE. BRIDGE

JACOBS
160 PROVENANCE CIRCLE, SUITE 300
SACRAMENTO, CA 95834
PHONE (916) 829-3222
FAX (916) 829-1712

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 482-2
SHEET NO. C-5
DRAWING 18 OF 55



- LEGEND:
- 12" FULL DEPTH HMA (TYPE A)
 - MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
 - CONCRETE CROSSWALK
 - 4' x 6' TREE WELL

CURVE TABLE 3

NO.	R.	A	T	L
3	20000	1°29'13"	1259.84	519.63



MATCH LINE "E" 33+50 SEE SHEET C-4

MATCH LINE "E" 38+50 SEE SHEET C-6



SCALE: 1" = 20'

DATE: 3/26/10

DESIGNED	DATE
CHECKED	DATE
APPROVED	DATE
PROJECT NAME EAST FRANCISCO BLVD.	
DRAWING NO. C-6	
SHEET NO. C-6	
DATE 3/28/10	
SCALE AS NOTED	

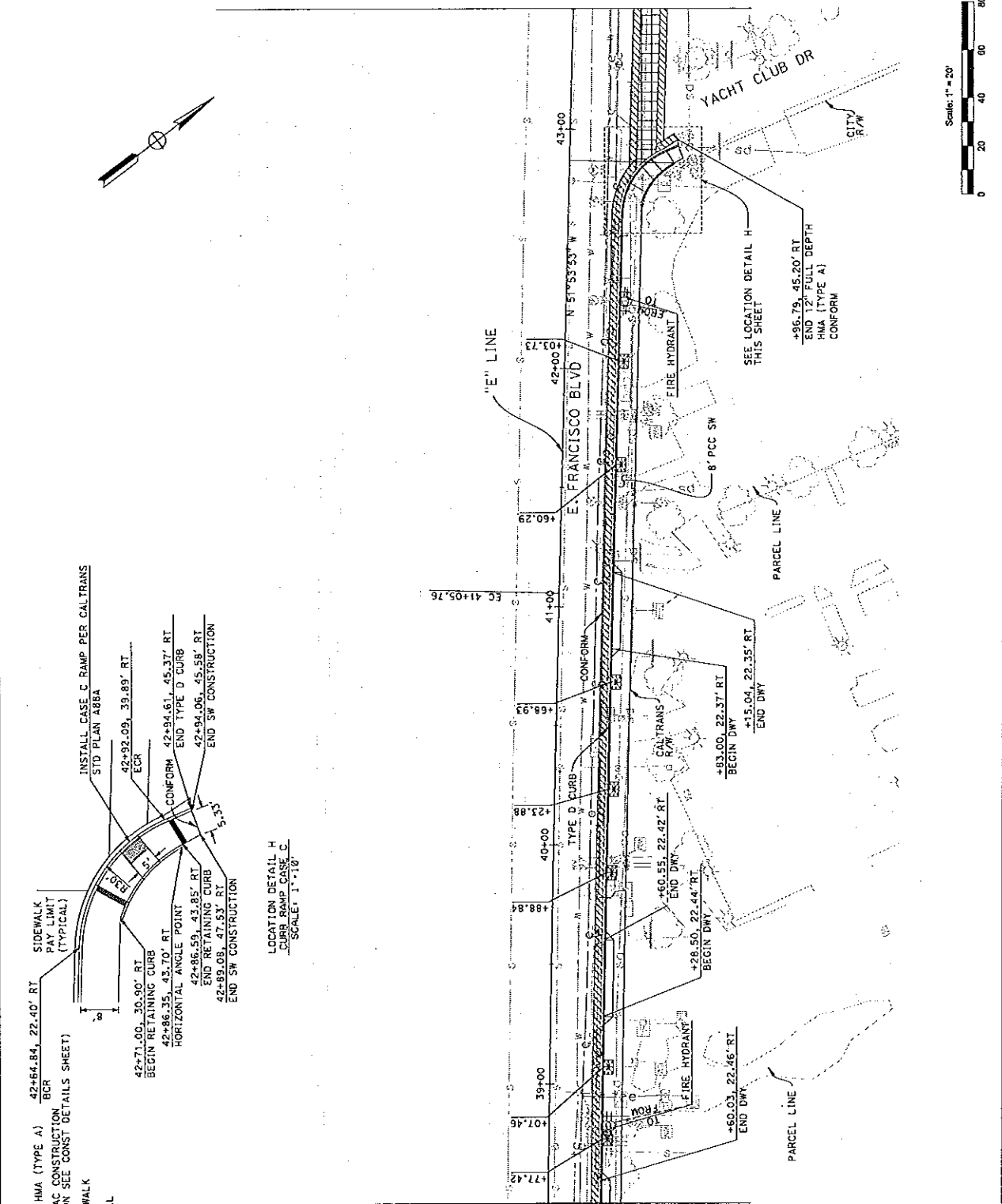
JACOBS
 180 ROYALWAY DRIVE, SUITE 300
 SAN RAFAEL, CALIFORNIA 94903
 PHONE (916) 929-3224
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE 3/28/10
 PROJECT NO. 48212
 SHEET NO. C-6
 DRAWING: 19-06-55



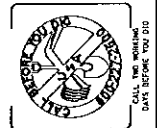
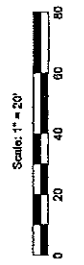
MATCH LINE "E" 43+50 SEE SHEET C-7



LEGEND:

- 12" FULL DEPTH HMA (TYPE A)
- MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
- CONCRETE CROSSWALK
- 4' x 6' TREE WELL

MATCH LINE "E" 38+50 SEE SHEET C-5

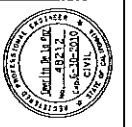


DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

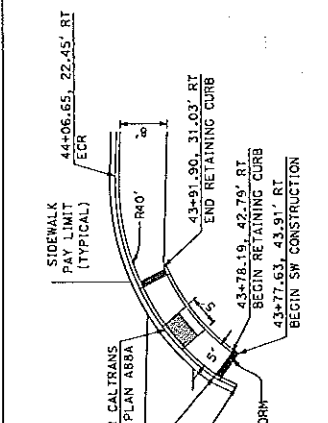
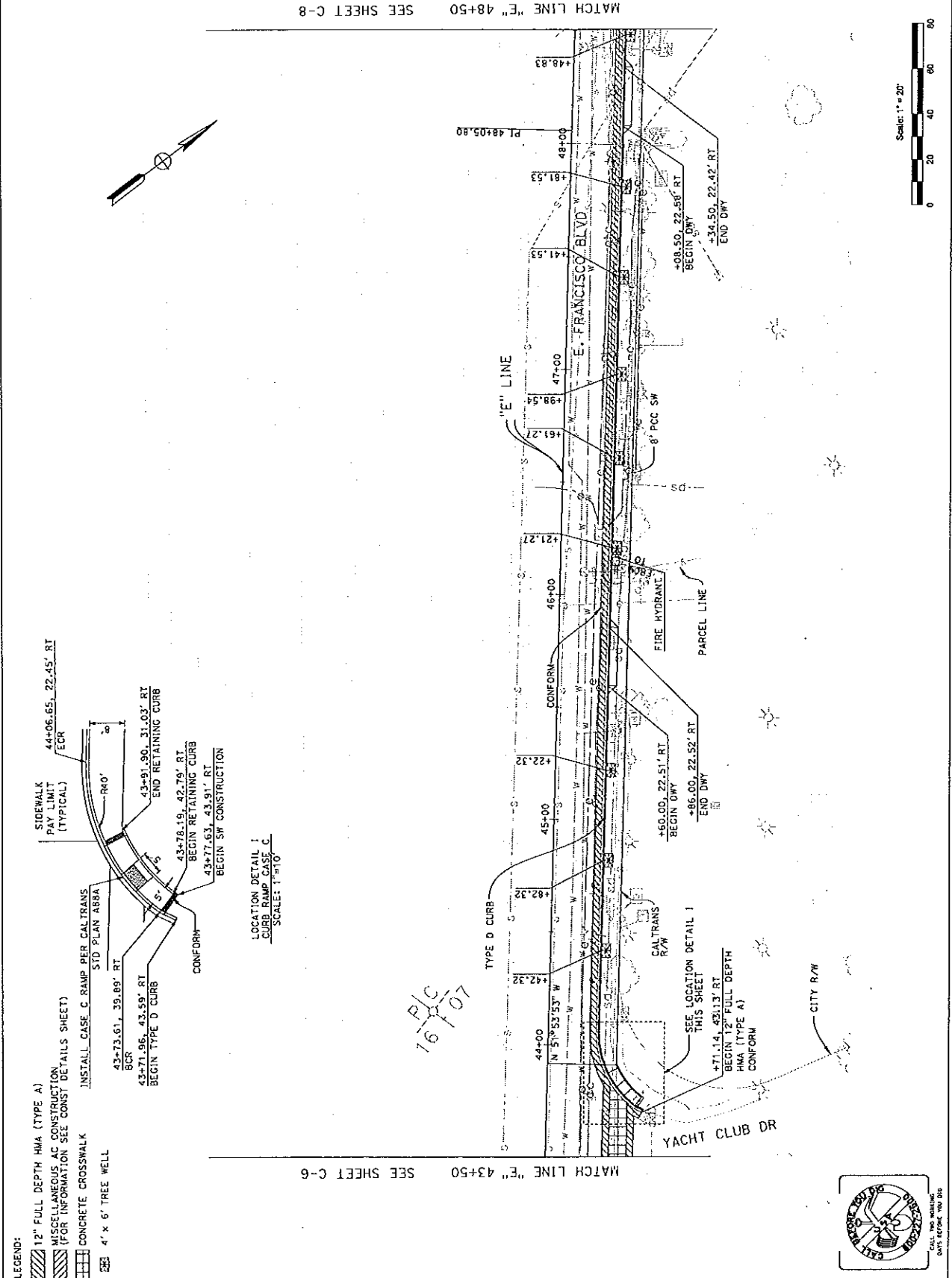
PROJECT NAME
EAST FRANCISCO BLVD.
DRAWING NAME
CONSTRUCTION PLAN
E. 43+50 TO 48+50
SAN RAFAEL COUNTY OF MARIN, CALIFORNIA

JACOBS
160 PROVENDE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 923-3223
FAX (916) 929-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. 2
C-7
DRAWING 200F.55



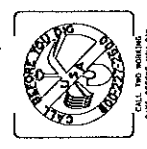
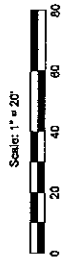
LEGEND:

- 12" FULL DEPTH HMA (TYPE A)
- MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
- CONCRETE CROSSWALK
- 4' x 6' TREE WELL

SEE SHEET C-8

SEE SHEET C-6

161/C
107

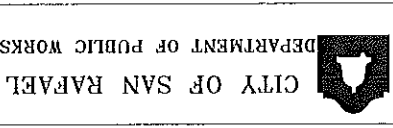


DATE	DATE	DATE
APPROVED	APPROVED	APPROVED
CHECKED	CHECKED	CHECKED
DESIGNED	DESIGNED	DESIGNED
BY DATE	BY DATE	BY DATE

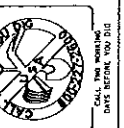
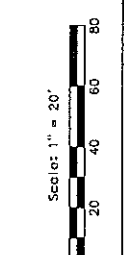
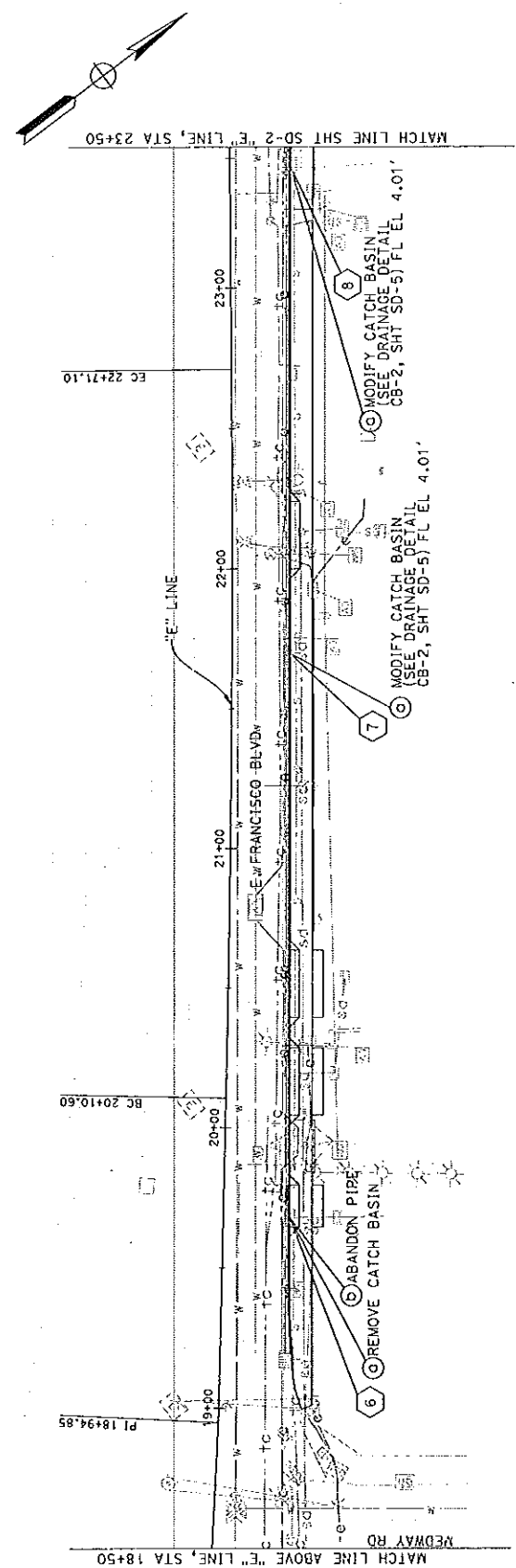
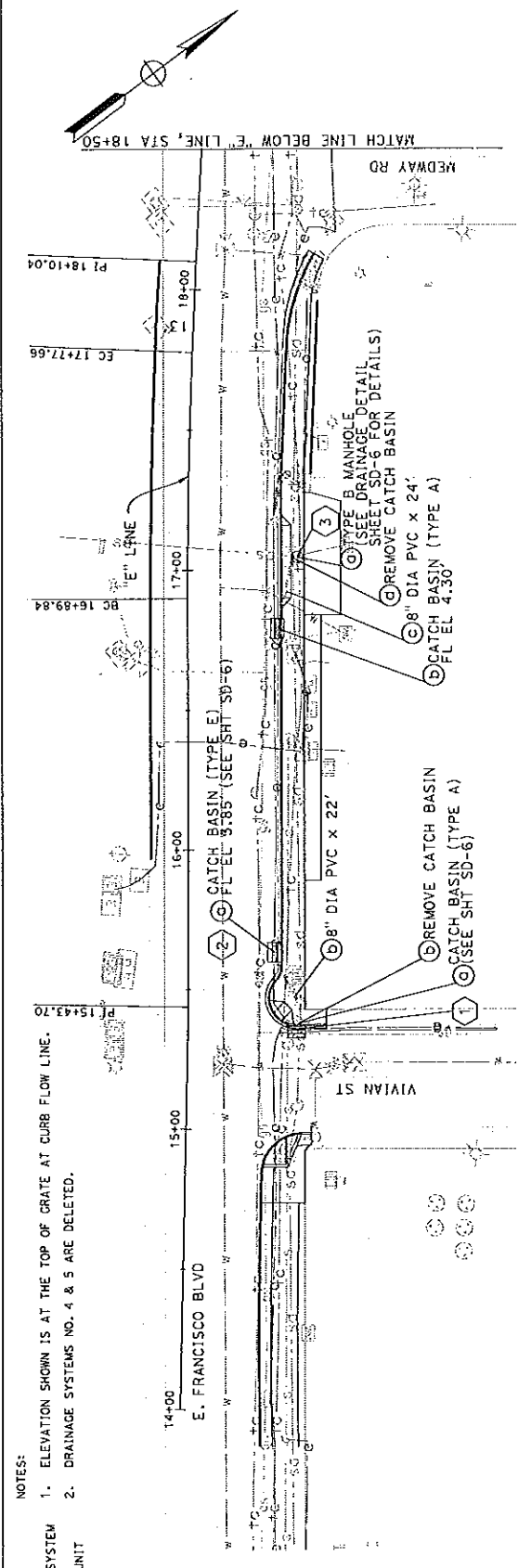
PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. BRIDGE

DRAWING NAME
DRAINAGE PLANS
"E" 14+00 TO 23+50

SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. 14
SD-1
DRAWING 30 OF 55



SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. 14
SD-1
DRAWING 30 OF 55



DATE	DATE
DESIGNED BY DATE	APPROVED
DRAWN	CHECKED
PROJECT NAME	DRAINAGE PLANS
EAST FRANCISCO BLVD.	"E" LINE TO 43+50
FROM VIVIAN ST. TO GRAND AVE. BRIDGE	SAN RAFAEL COUNTY OF MARIN, CALIFORNIA

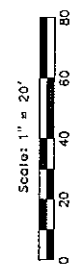
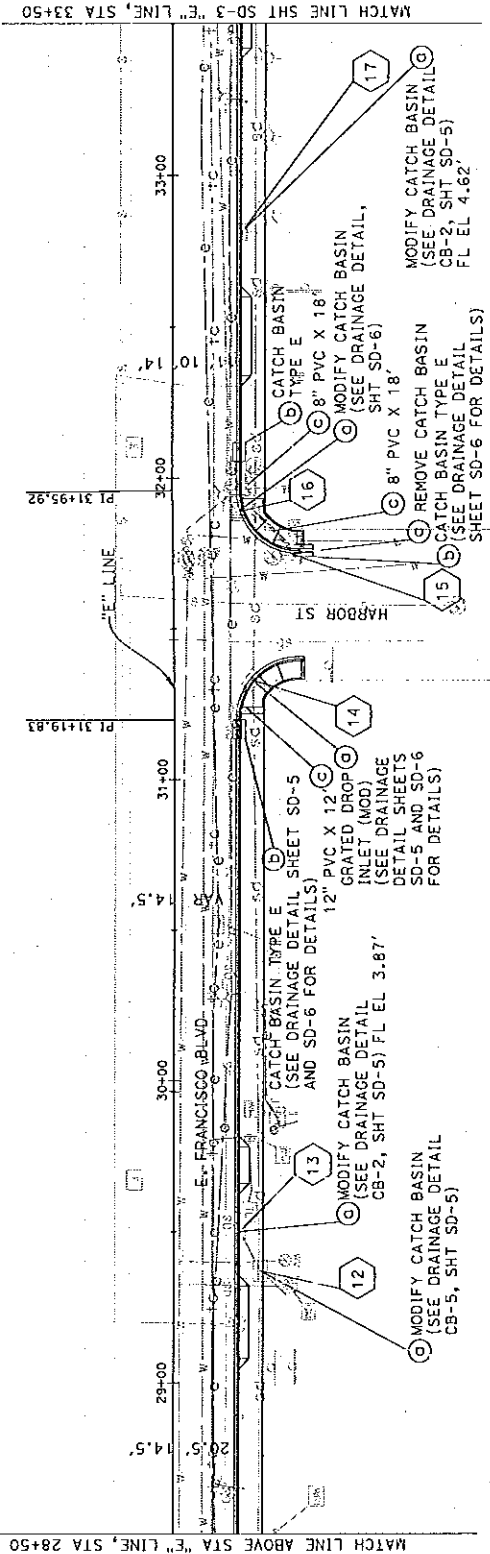
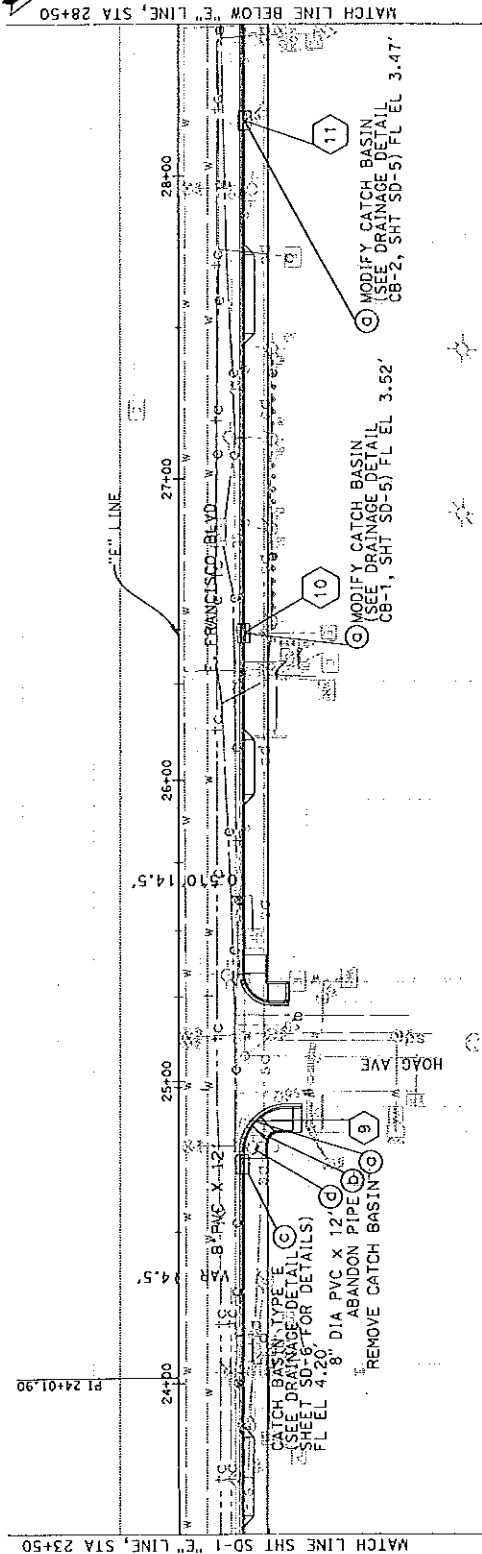
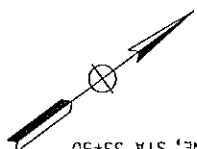
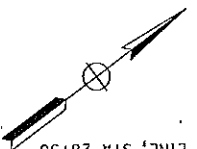
JACOBS

180 PROVENDE CRCL, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 829-3223
 FAX (916) 923-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



SCALE AS NOTED
 DATE 3/28/10
 PROJECT 48212
 SHEET NO. SD-2
 DRAWING 31 OF 55



CALL THE WRITING DATE BEFORE YOU BID

DESIGNED	DATE
CHECKED	DATE
APPROVED	DATE
PROJECT NAME EAST FRANCISCO BLVD.	
FROM VIGAN ST. TO GRAND AVE. EXTION	
DRAWING HAVE DRAINAGE PLANS	
"E" 33+50 TO 43+50	
SAN RAFAEL COUNTY OF WASH. CALIFORNIA	

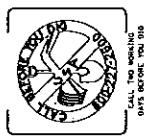
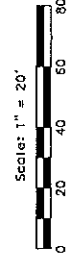
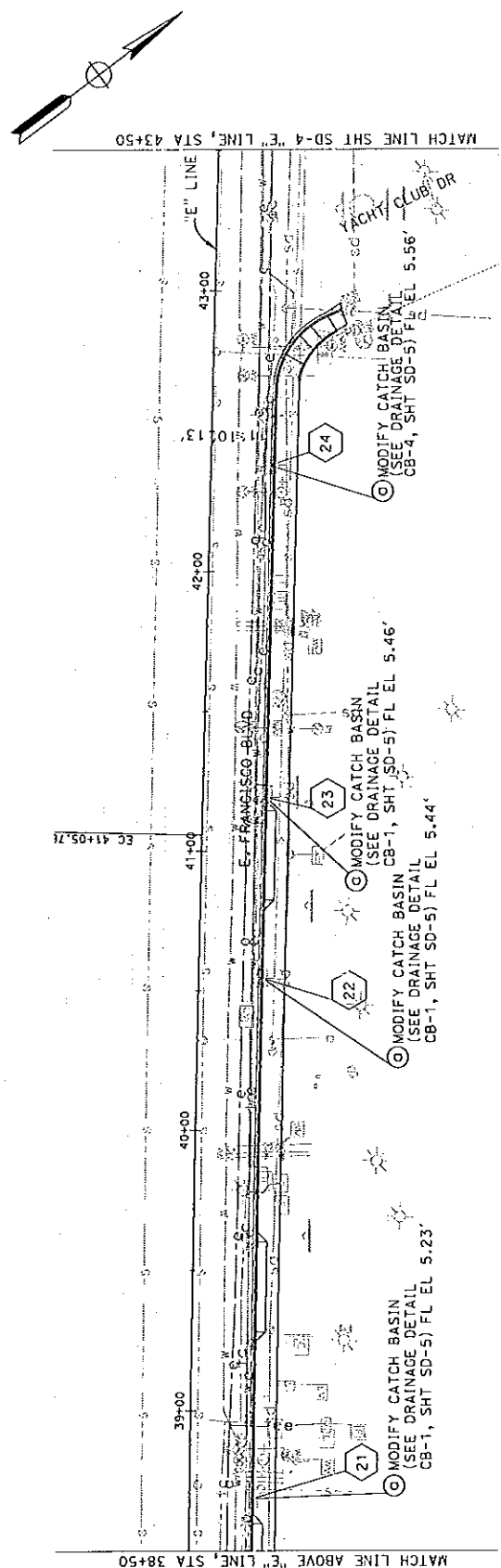
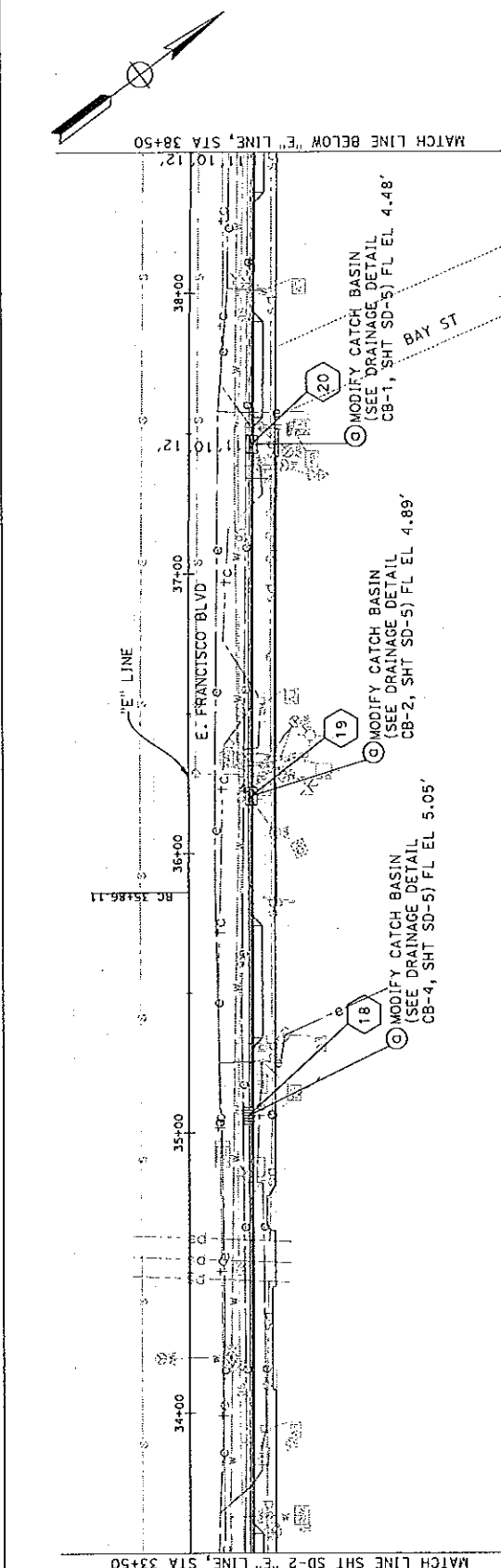
JACOBS

160 PROMENADE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 928-3232
FAX (916) 928-1172

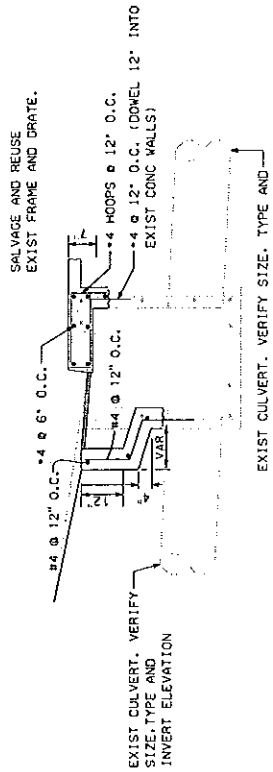
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



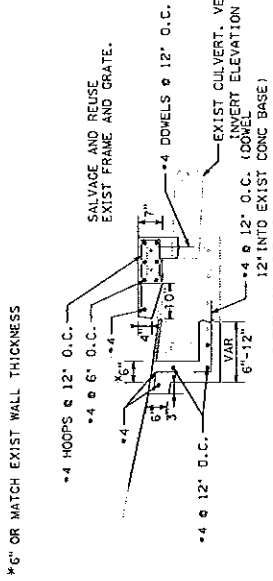
SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. SD-3
DRAWING 32 OF 55



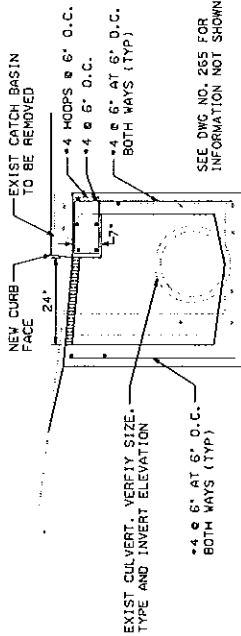
NOTE: VERIFY LOCATION, SIZE, AND TYPE OF ALL EXISTING DRAINAGE FACILITIES TO BE MODIFIED OR WILL BE AFFECTED BY CONSTRUCTION.



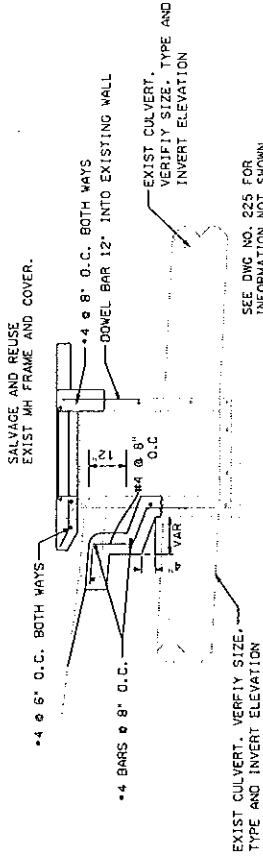
DETAIL CB-1
MODIFY CATCH BASIN
⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



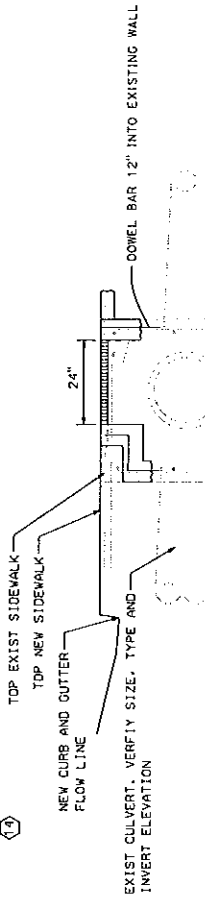
DETAIL CB-2
MODIFY CATCH BASIN
⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



DETAIL CB-3
GRATED DROP INLET (MOD)
SEE SHEET SD 2 FOR LOCATION.
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



DETAIL CB-4
MODIFY CATCH BASIN
⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿



DETAIL CB-5
MODIFY CATCH BASIN
⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

JACOBS
160 PROVENANCE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 629-1722
FAX (916) 629-1722

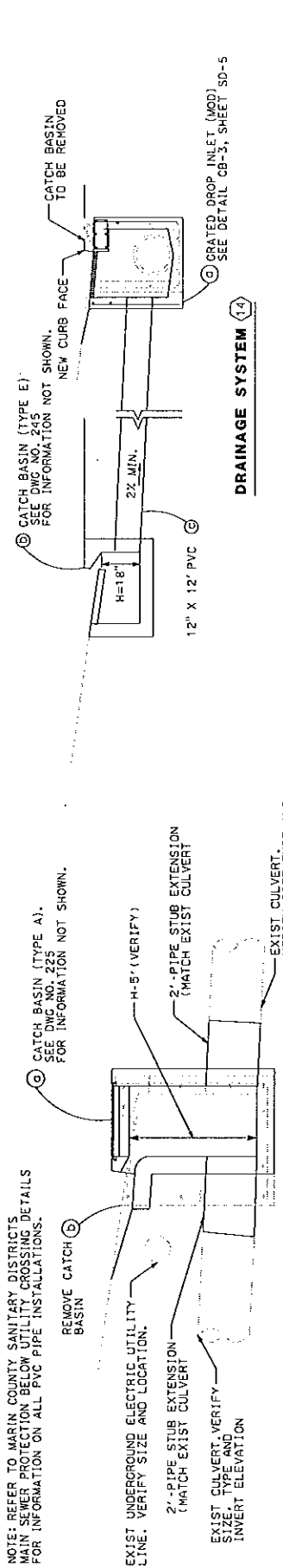
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



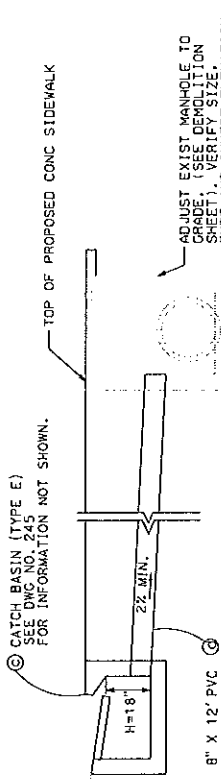
NOT TO SCALE
DATE 3/26/10
PROJECT NO.
SHEET NO.
SD-5
DRAWING 34 OF 35



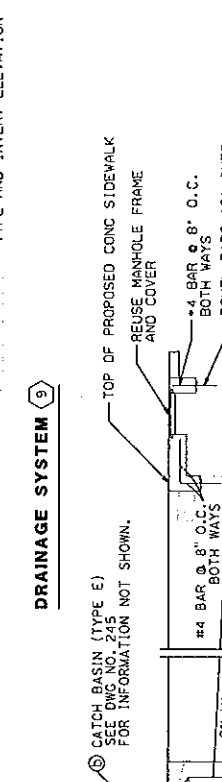
NOTE: REFER TO MARIN COUNTY SANITARY DISTRICTS MAIN SEWER PROTECTION BELOW UTILITY CROSSING DETAILS FOR INFORMATION ON ALL PVC PIPE INSTALLATIONS.



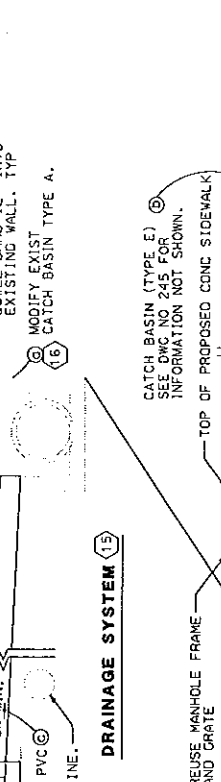
DRAINAGE SYSTEM 1



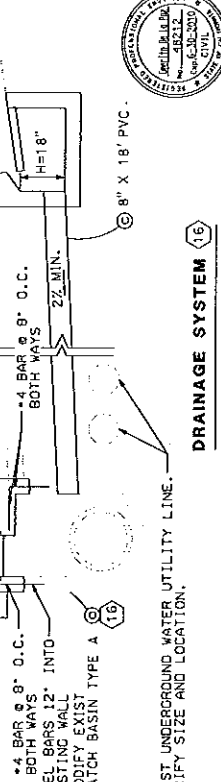
DRAINAGE SYSTEM 2



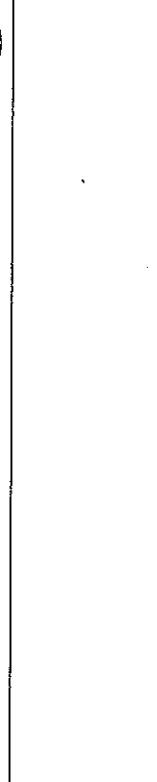
DRAINAGE SYSTEM 3



DRAINAGE SYSTEM 4



DRAINAGE SYSTEM 5



DRAINAGE SYSTEM 6



DATE 3/26/10
 PROJECT NO. 10-0000000
 SHEET NO. SD-7
 DRAWING NO. 36 OF 55

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

JACOBS
 180 PROMENADE CIRCLE, STE 200
 SACHRYMENTO, CA 95834
 PHONE (916) 928-3333
 FAX (916) 928-1772

PROJECT NAME
 EAST FRANCISCO BLVD.
 FROM VILAIN ST. TO GRAND AVE. BRIDGE
 DRAINAGE NAME
 DRAINAGE QUANTITIES
 SAN RAFAEL COUNTY OF WASHINGTON CALIFORNIA

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

DRAINAGE SYSTEM No.	DRAINAGE UNIT No.	(N)	REMOVE CATCH BASIN	GRADED DROP INLET	MODIFY CATCH BASIN					CATCH BASIN (TYPE A)	CATCH BASIN (TYPE E)	ABANDON PIPE	8" PVC	12" PVC	TYPE B MANHOLE	DESCRIPTION	STATION	DRAINAGE PLAN No.
					EA	EA	EA	EA	EA									
1	0								1							38.84' Rt "E" 15+37.63	SD-1	
	0															38.84' Rt "E" 15+37.63	SD-1	
2	0							1								33.04' Rt "E" 15+63.22	SD-1	
	0															40.16' Rt "E" 15+44.88 to 32.00' Rt "E" 15+63.24	SD-1	
3	0							1								33.04' Rt "E" 16+79.08	SD-1	
	0															32.02' Rt "E" 16+79.10	SD-1	
	0							24								32.02' Rt "E" 16+79.10 to 36.82' Rt 17+04.97	SD-1	
	0															32.02' Rt "E" 16+79.10	SD-1	
4																SYSTEM *4 DELETED		
5																SYSTEM *5 DELETED		
6	0	1														23.33' Rt "E" 19+68.29	SD-1	
	0								1							23.33' Rt "E" 19+68.29	SD-1	
7	0	1														20.27' Rt "E" 21+69.82	SD-1	
8	0	1														21.04' Rt "E" 23+43.18	SD-1	
9	0	1														23.47' Rt "E" 24+83.89	SD-2	
	0								1							23.47' Rt "E" 24+83.89	SD-2	
	0															23.47' Rt "E" 24+83.89	SD-2	
	0								12							23.47' Rt "E" 24+83.89	SD-2	
10	0	1														21.50' Rt "E" 26+48.70	SD-2	
11	0	1														21.50' RT "E" 28+18.19	SD-2	
12	0	1						1								29.34' Rt "E" 29+36.99	SD-2	
13	0	1														21.50' Rt "E" 29+50.01	SD-2	
14	0	1														26.44' RT "E" 31+32.50	SD-2	
	0																	
	4	1	1	1	4	-	1	2	3	2	58	12	1			SHEET TOTAL		

(N) = NOT A SEPARATE PAY ITEM



DATE 3/26/10
 PROJECT 1110-
 SHEET NO. SD-8
 DRAWING 370F55

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

JACOBS
 160 PROVEDALE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 929-1712

PROJECT NAME EAST FRANCISCO BLVD.
 DRAWING NAME DRAINAGE QUANTITIES
 FROM VIAJAN ST. TO GRAND AVE. BRIDGE
 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA

DESIGNED BY DATE	APPROVED BY DATE
CHECKED BY DATE	DATE
DRAWN BY DATE	DATE
REVISOR BY DATE	DATE

DRAINAGE SYSTEM NO.	DRAINAGE UNIT NO.	REMOVE CATCH BASIN (N)		GRADED DROP INLET (N)		MODIFY CATCH BASIN				CATCH BASIN (TYPE A)	CATCH BASIN (TYPE E)	ABANDON PIPE	8" PVC	12" PVC	TYPE B MANHOLE	DESCRIPTION	STATION	DRAINAGE PLAN NO.																
		EA	EA	EA	EA	EA	EA	EA	EA																									
15	0	1															39.75' Rt "E" 31+75.55	SD-2																
	b								1								39.75' Rt "E" 31+75.55	SD-2																
	c												18				39.75' Rt "E" 31+75.55	SD-2																
16	0																23.68' Rt "E" 31+88.59	SD-2																
	b								1								23.68' Rt "E" 31+88.59	SD-2																
	c												18				23.68' Rt "E" 31+88.59	SD-2																
17	0	1															22.50' Rt "E" 32+81.30	SD-2																
18	0																22.50' Rt "E" 35+06.04	SD-3																
19	0																22.50' Rt "E" 36+20.50	SD-3																
20	0																22.48' Rt "E" 37+46.47	SD-3																
21	0																22.46' Rt "E" 38+88.93	SD-3																
22	0																22.38' Rt "E" 40+55.07	SD-3																
23	0																22.35' Rt "E" 41+19.75	SD-3																
24	0																22.39' Rt "E" 42+38.46	SD-3																
25	0																22.47' Rt "E" 44+63.72	SD-4																
26	0	1															22.51' Rt "E" 45+79.06	SD-4																
	d																22.51' Rt "E" 45+79.06	SD-4																
27	0																22.53' Rt "E" 46+13.47	SD-4																
28	0																22.54' Rt "E" 48+69.90	SD-4																
29	0																22.59' Rt "E" 47+93.99	SD-4																
30	0																21.93' Rt "E" 49+18.87	SD-4																
31	0																23.38' Rt "E" 51+10.66	SD-4																
																SHEET TOTAL																		
																SHEET TOTAL SD-7																		
																GRAND TOTAL																		

(N) = NOT A SEPARATE PAY ITEM

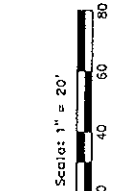
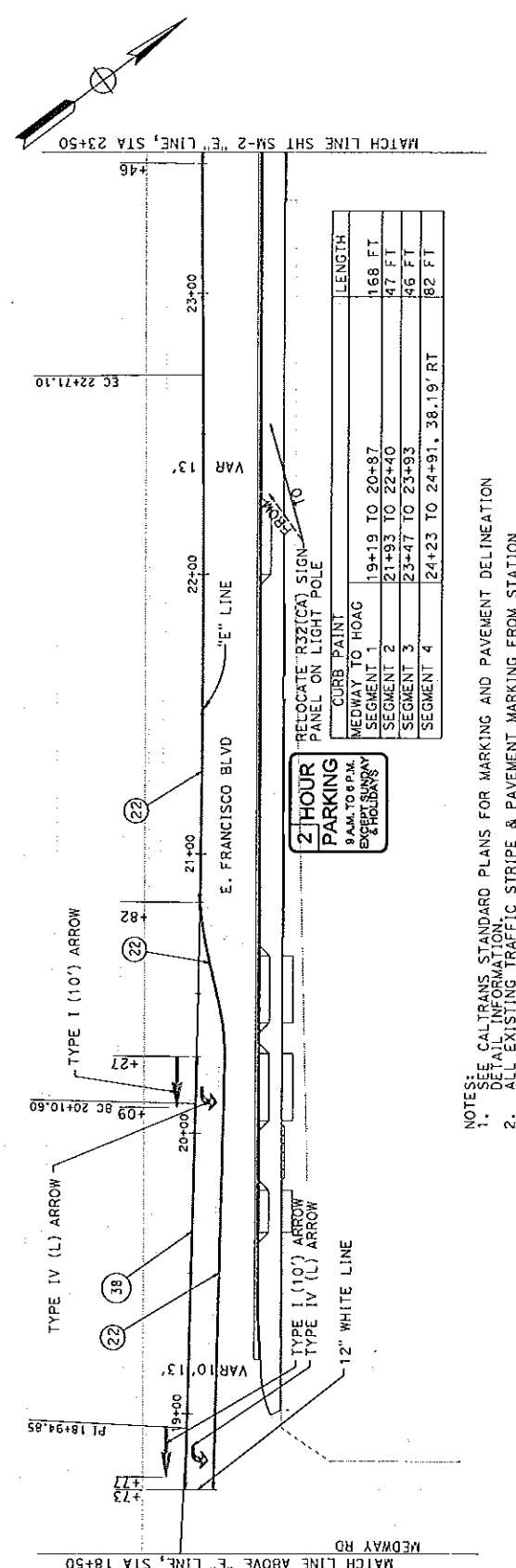
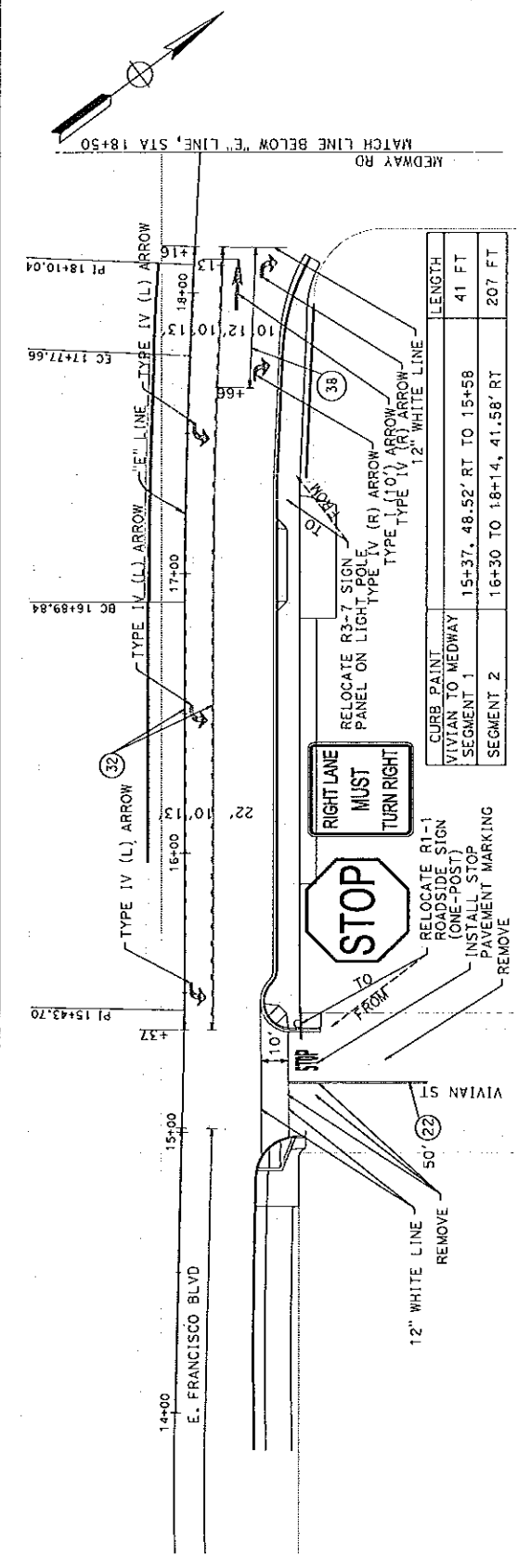
DATE	DATE
DESIGNED	APPROVED
CHECKED	DATE
DATE	DATE

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. BRIDGE
DRAWING NAME
SIGNING & MARKING PLAN
SACRAMENTO, CA 95834
180 PROVENDE CIRCLE, STE 300
PHONE (916) 829-1772
FAX (916) 829-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



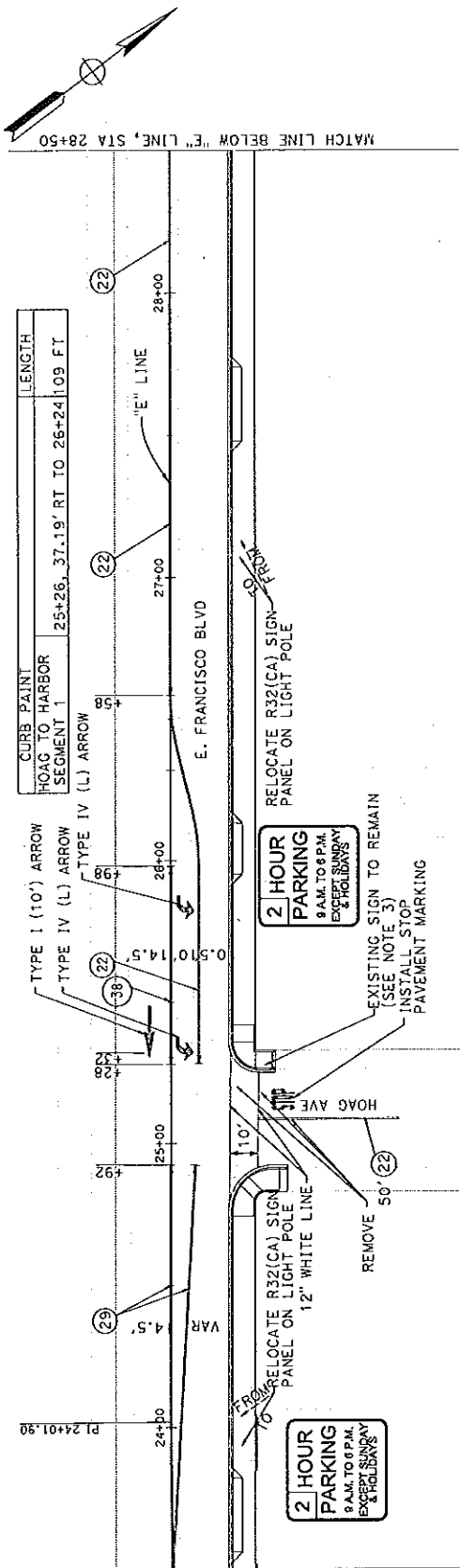
SCALE AS NOTED	DATE
PROJECT NO.	3/26/10
SHEET NO.	SM-1
DRAWING 380P 55	



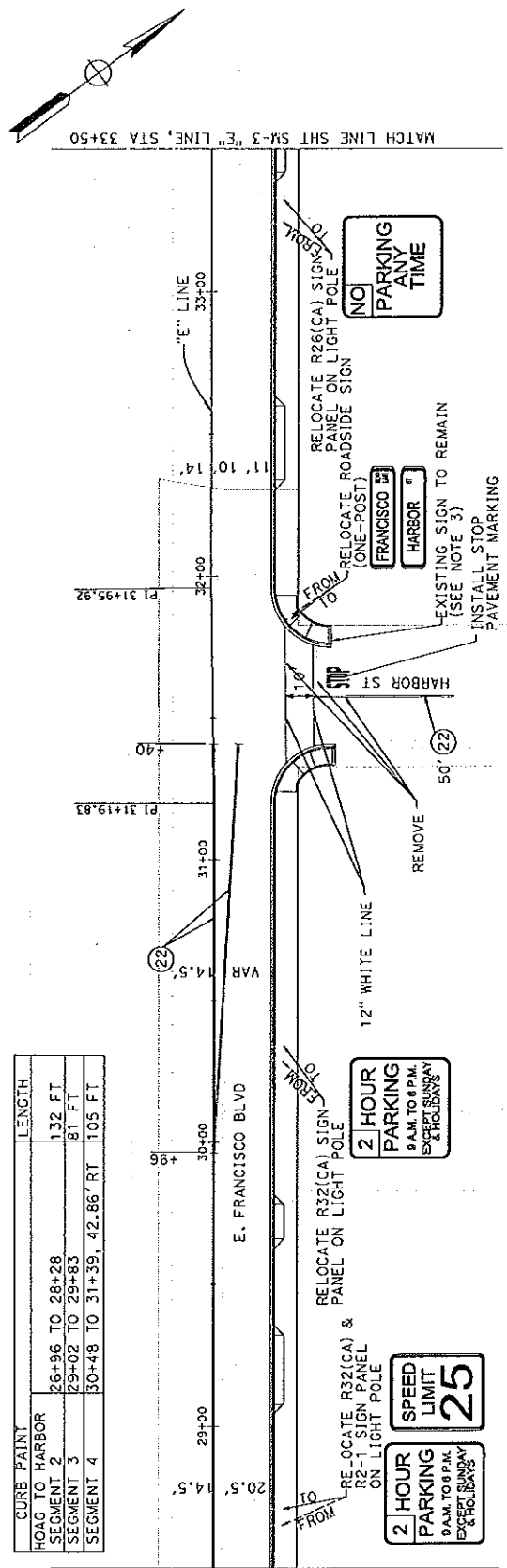
- NOTES:
- SEE CALTRANS STANDARD PLANS FOR MARKING AND PAVEMENT DELINEATION
 - DETAIL INFORMATION:
 - ALL EXISTING TRAFFIC STRIPE & PAVEMENT MARKING FROM STATION 14+00 TO 18+50 SHALL BE REMOVED.
 - ALL EXISTING TRAFFIC STRIPE & PAVEMENT MARKING FROM STATION 18+50 TO 23+50 SHALL BE REMOVED AND REINSTALLED IN THE SAME LOCATION AS SHOWN ON THIS PLAN.
 - ALL STRIPING AND PAVEMENT MARKERS SHALL BE THERMOPLASTIC.
 - ROADSIDE SIGN PANEL (ONE-POST) USE METAL SIGN POST DETAIL OF THE CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING UNIFORM STANDARD.

- LEGEND:
- # PAVEMENT DELINEATION DETAIL
 - CHANGE OF PAVEMENT DELINEATION DETAIL

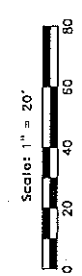




MATCH LINE ABOVE STA "E" LINE, STA 23+50



MATCH LINE BELOW STA "E" LINE, STA 33+50



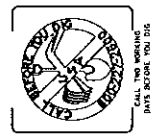
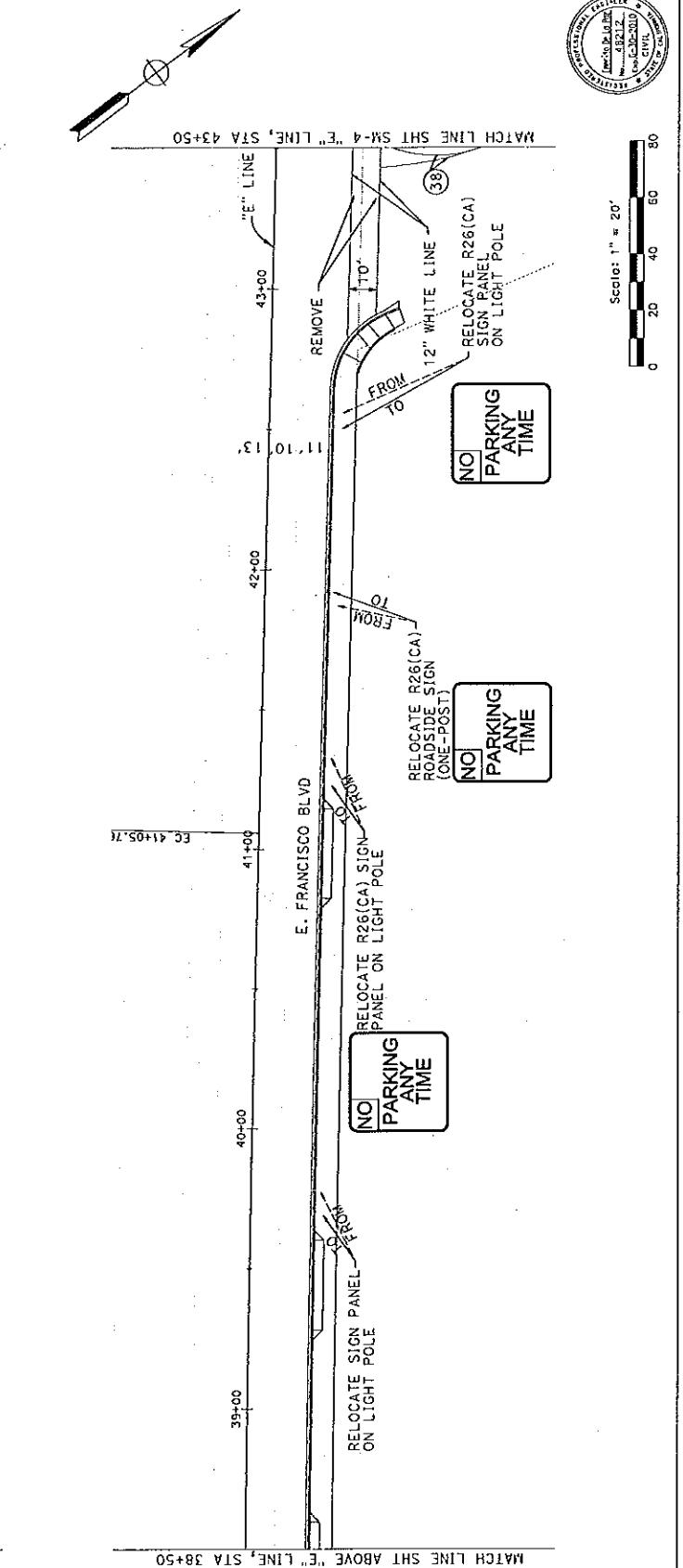
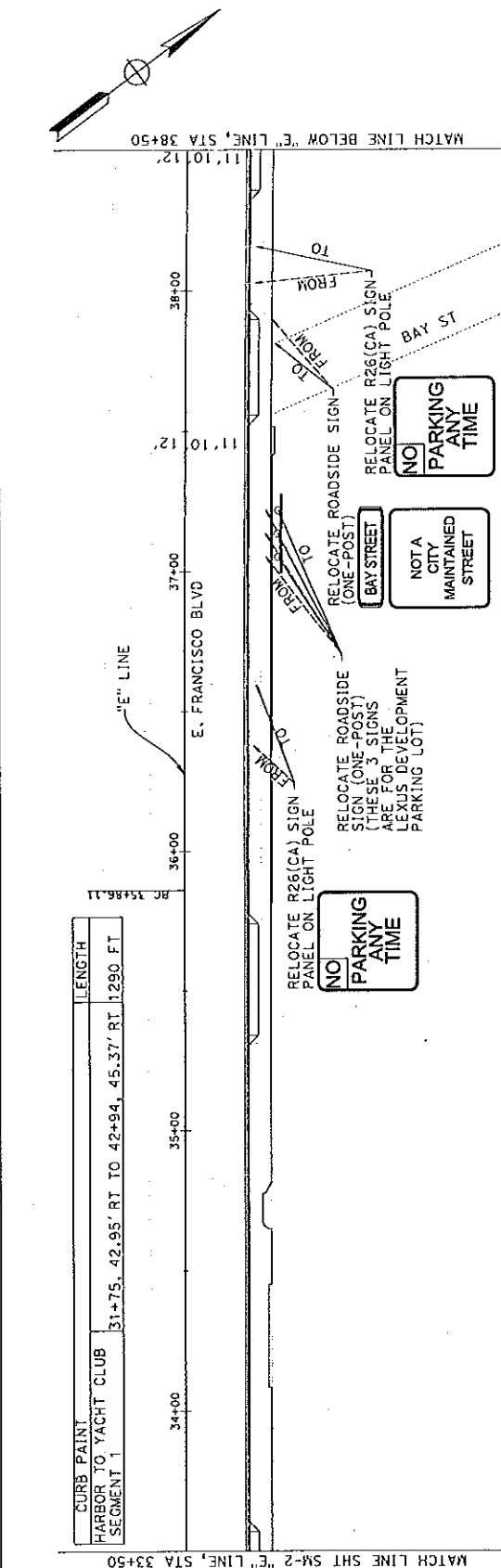
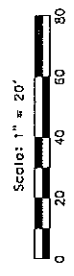
PROJECT NAME: EAST FRANCISCO BLVD.
 DRAWING NAME: SIGNING & MARKING PLAN
 DRAWING NO.: 33+50 TO 43+50
 DATE: 3/26/10
 SCALE: AS NOTED

JACOBS
 150 PROVEDENCE CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 923-3323
 FAX (916) 923-1712

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



SCALE: AS NOTED
 DATE: 3/26/10
 PROJECT NO.: 45212
 SHEET NO.: SM-3
 DRAWING NO.: 400F-55



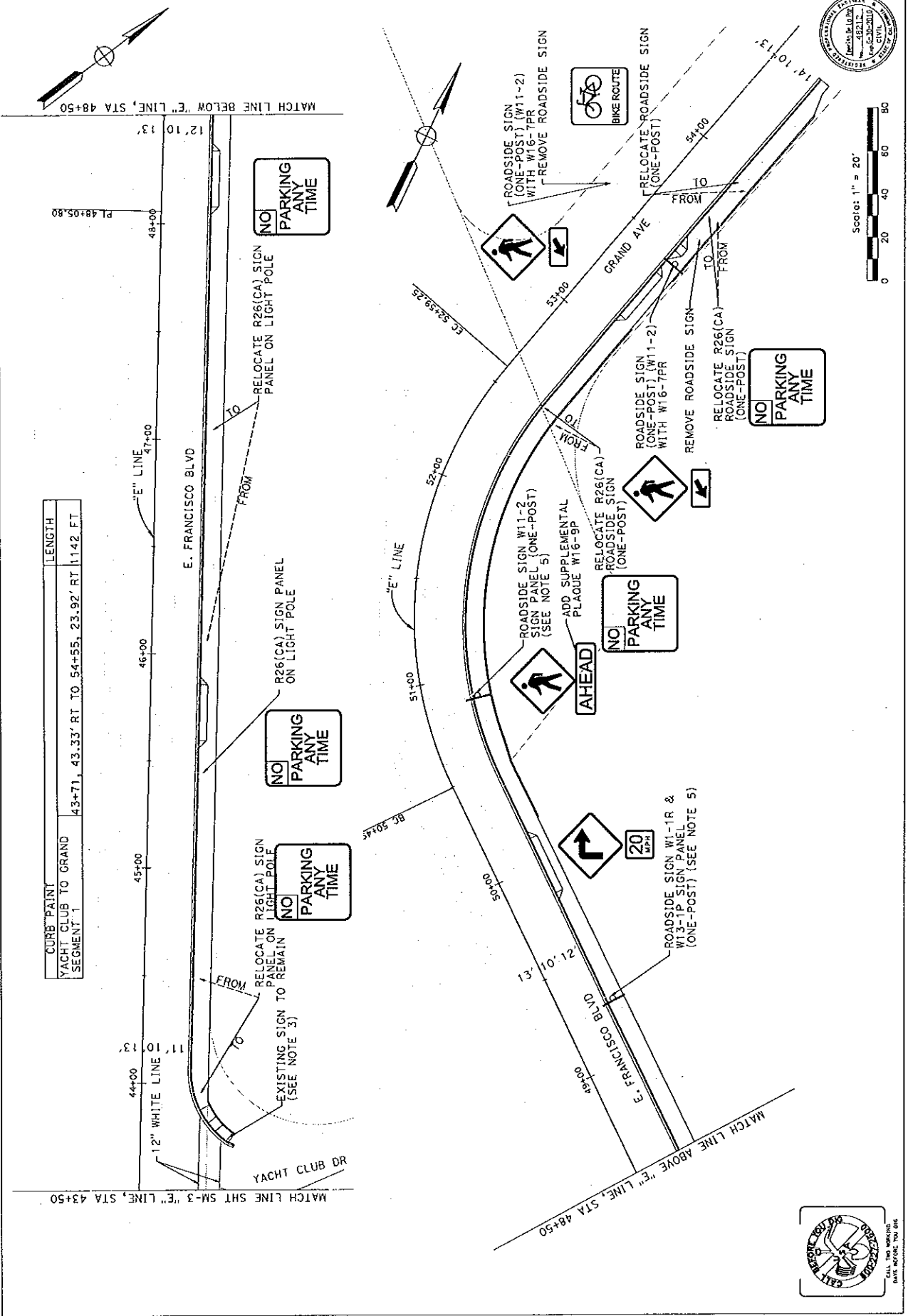
DESIGNED BY	DATE
CHECKED	DATE
APPROVED	DATE
PROJECT NAME EAST FRANCISCO BLVD.	
DRAWING NAME SIGNING & MARKING PLAN	
SYN REF. COUNTY OF MARIN CALIFORNIA	
"E" LINE, STA 43+50 TO 54+55	

JACOBS
120 PROVENANCE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 929-3223
FAX (916) 929-1712

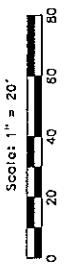
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



SCALE	AS NOTED
DATE	3/26/10
PROJECT	48212
SHEET NO.	SM-4
DRAWING	21 OF 55



CURB PAINT	LENGTH
YACHT CLUB TO GRAND SEGMENT 1	43+71, 43.33' RT TO 54+55, 23.92' RT 1142 FT



SIGN SCHEDULE (SHEETS SM-1 TO SM-4)

SIGN	SIGN NAME	SIZE	INSTALL SIGN PANEL	INSTALL ROADSIDE SIGN (ONE-POST)	REMOVE ROADSIDE SIGN (ONE-POST)	RELOCATE SIGN PANEL	RELOCATE SIGN (ONE-POST)
R1-1	STOP	24" x 24"	-	-	-	-	1
R2-1	SPEED LIMIT	24" x 30"	-	-	-	1	-
R3-7(R)	RIGHT LANE MUST TURN RIGHT	30" x 30"	-	-	-	-	1
R28(CA)	NO PARKING	12" x 18"	-	-	-	8	4
R32(CA)	2-HOUR PARKING	12" x 18"	-	-	-	5	-
W1-1R	RIGHT TURN	-	-	-	-	-	1
W11-2	PEDESTRIAN TRAFFIC	-	-	2	2	-	1
W13-1P	20 MPH	-	-	-	-	1	-
W16-7PR	RIGHT DIAGONAL ARROW	-	2	-	-	-	-
W16-9P	AHEAD	-	1	-	-	-	-
-	BIKE ROUTE	-	-	-	-	-	1
-	STREET NAME	-	-	-	-	-	1
-	NOT A CITY MAINTAINED STREET	-	-	-	-	-	1
-	LEXUS DEALERSHIP SIGNS (SEE NOTE)	-	-	-	-	-	3
TOTAL			3	2	2	15	14

NOTE: PARKING LOT SIGNS RELOCATION SHALL BE COORDINATED WITH THE PROPERTY OWNER PRIOR TO RELOCATION.

PAVEMENT MARKING SCHEDULE

PATTERN OR LEGEND	INSTALL		REMOVE	
	No.	TOTAL SQ. FT.	No.	TOTAL SQ. FT.
12" WHITE THERMOPLASTIC LINE	470	470	440	440
(THERMOPLASTIC) TYPE I (10')	4	56	-	-
(THERMOPLASTIC) TYPE IV (R)	2	30	2	30
(THERMOPLASTIC) TYPE IV (L)	7	105	8	120
(THERMOPLASTIC) STOP	3	66	1	22
TOTAL		727		612

PAINT SCHEDULE

PAINT TYPE	INSTALL (LF)	REMOVE (LF)
RED CURB PAINT	3450	-
TOTAL	3450	-

STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND	INSTALL (LF)	REMOVE YELLOW TRAFFIC STRIPE (LF)	REMOVE WHITE TRAFFIC STRIPE (LF)
22	CENTER LINE	1385	1385	-
29	MEDIAN ISLAND	295	295	-
32	TWO-WAY LEFT TURN LANES	560	560	-
38	CHANNELIZING LINE	280	-	235
TOTAL		2250	2250	235



GENERAL NOTES (FOR SHEETS E-1 TO E-7):

- THE CONTRACTOR SHALL USE CAUTION TO INSTALL FOUNDATION THAT IS NEAR BY THE UTILITY. LOCATION OF FOUNDATION MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY ENGINEER.
- THE LIGHTING BALLAST FOR LIGHTING FIXTURE SHALL BE MULTI-TAP TYPE WHICH CAN HANDLE 120 V, 208 V, 240 V, AND 277 V FIXTURE. U.S.A. (800) 227-2600.
- CALL UNDERGROUND SERVICE ALERT 48 HOURS BEFORE EXCAVATION.
- ALL ELECTRICAL EQUIPMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN THE OPERATION OF THE EXISTING SIGNALS AT ALL TIMES DURING CONSTRUCTION.
- ALL EXISTING PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL PULL BOXES SHALL BE LOCATED IN SIDEWALK WHERE APPLICABLE.
- ALL ELECTRICAL EQUIPMENT INCLUDING CONDUITS AND PULL BOXES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. EXACT LOCATIONS TO BE DETERMINED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- THERE SHALL BE A MINIMUM OF 5' SLACK OF SIC IN EACH INTERCONNECT PULL BOX.
- ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLAN IS FOR REFERENCE AND SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. LOCATIONS ARE APPROXIMATE. ANY DAMAGE TO THE EXISTING ELECTRICAL EQUIPMENT SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
- INSTALL ALL ELECTRICAL EQUIPMENT OUTSIDE BOUNDARIES OF CURB RAMPS AND DRIVEWAYS.
- THE CONTRACTOR SHALL SEE THE SIGN PLANS FOR SIGNS MOUNTED ON LIGHTING AND SIGNAL STANDARDS.
- PRIOR TO ANY WORK ON POSE SERVICE POINTS, THE CONTRACTOR SHALL GIVE A MINIMUM OF 2 WEEKS ADVANCE NOTICE TO POSE, MINDY RAYBURN AT (415) 257-5203.
- PARKING LOT LIGHTING/CONDUITS AND IRRIGATION SYSTEM RELOCATIONS/REMOVAL TO BE DONE BY OTHERS. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS.

ABBREVIATIONS (FOR SHEETS E-1 TO E-7):

- APS ACCESSIBLE PEDESTRIAN SIGNAL
- CCU NAVIGATOR CENTRAL CONTROL UNIT
- SP SERVICE POINT
- TOS TRAFFIC OPERATION SYSTEM
- VID VIDEO IMAGE DETECTION CABLE

LEGEND (FOR SHEETS E-1 TO E-7):

- 1 NEW CITY SAFETY LIGHT, CALTRANS TYPE 15 WITH 200 W HPS AND 8" LUMINAIRE ARM.
- 2 EXISTING POSE PULL BOX FOR LIGHTING SERVICE
- 3 EXISTING VIDEO DETECTION ZONE
- 4 PROPOSED VIDEO DETECTION ZONE
- 5 EXISTING VIDEO DETECTION CAMERA
- 6 EXISTING CCTV CAMERA



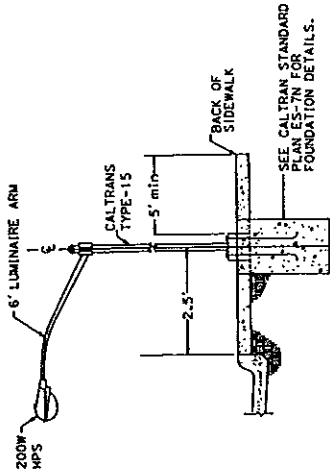
CALL FOR WORKING DRAWING

STANDARD NOTES (FOR SHEETS E-1 TO E-7):

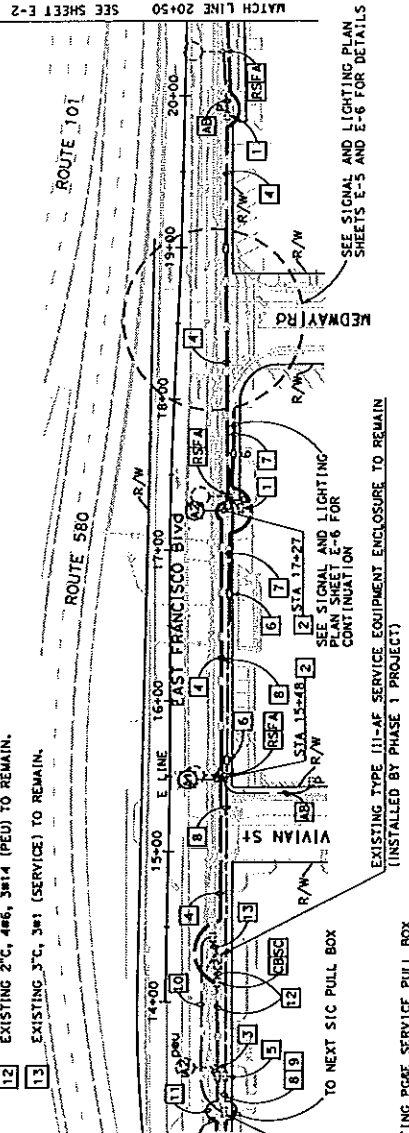
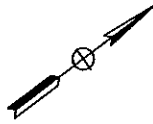
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB INSTALL CONDUIT TO EXISTING PULL BOX.
- FA FOUNDATION TO BE ABANDONED.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS REMOVE AND SALVAGE EQUIPMENT.
- SC SPLICE NEW TO EXISTING CONDUCTORS.

PROJECT NOTES (FOR THIS SHEET ONLY):

- EXISTING POSE PULL BOX. SEE DEMOLITION PLAN FOR DETAIL.
- SEE DETAIL A FOR POLE LOCATION.
- EXISTING STREET LIGHTING TO REMAIN.
- 2" C, 4#6 (240 V LIGHTING).
- EXISTING INTERCONNECT PULL BOX TO REMAIN.
- REPLACE EXISTING PULL BOX WITH A NEW NO. 6 PULL BOX. THE COVER OF PULL BOX SHALL BE LABELED "CITY INTERCONNECT".
- 3" C, 1 SIC (6 PAIR #20).
- EXISTING 1 1/2" C, M³, ADD 1 SIC (6 PAIR #20).
- INSTALL 1 SIC (6 PAIR #20) FROM CONTROLLER CABINET AT SOUTHWEST CORNER OF BELLAM BLVD./FRANCISCO BLVD INTERSECTION TO CONTROLLER CABINET AT NORTHEAST CORNER OF MEDWAY RD./FRANCISCO BLVD (±1725').
- EXISTING 3" C WITH SERVICE WIRES TO REMAIN.
- EXISTING 2" C, 4#6 TO REMAIN.
- EXISTING 2" C, 4#6, 3#14 (PEU) TO REMAIN.
- EXISTING 3" C, 3#1 (SERVICE) TO REMAIN.



DETAIL A
POLE LOCATION
 8" OR WIDER SIDEWALK
 NO SCALE



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

DATE	REVISION	BY

PROJECT NAME: EAST FRANCISCO BLVD.
 DRAWING NO.: STREET LIGHTING
 DATE: 07/23/10
 PROJECT NO.: 14
 SHEET NO.: E-2
 DRAWING # OF 5

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS
 REQUEST # 11-0000

NOTE:

1. SEE SHEET E-1 FOR GENERAL AND STANDARD NOTES, ABBREVIATIONS AND LEGEND.

PROJECT NOTES (FOR THIS SHEET ONLY):

1. EXISTING POLE PULL BOX. SEE DEMOLITION PLAN FOR DETAIL.
2. SEE DETAIL A ON SHEET E-1 FOR POLE LOCATION.
3. 2" C, 2#6 (240 V LIGHTING).
4. 2" C, 4#6 (240 V LIGHTING).
5. 2" C, MT.

PROJECT NOTES (FOR THIS SHEET ONLY):

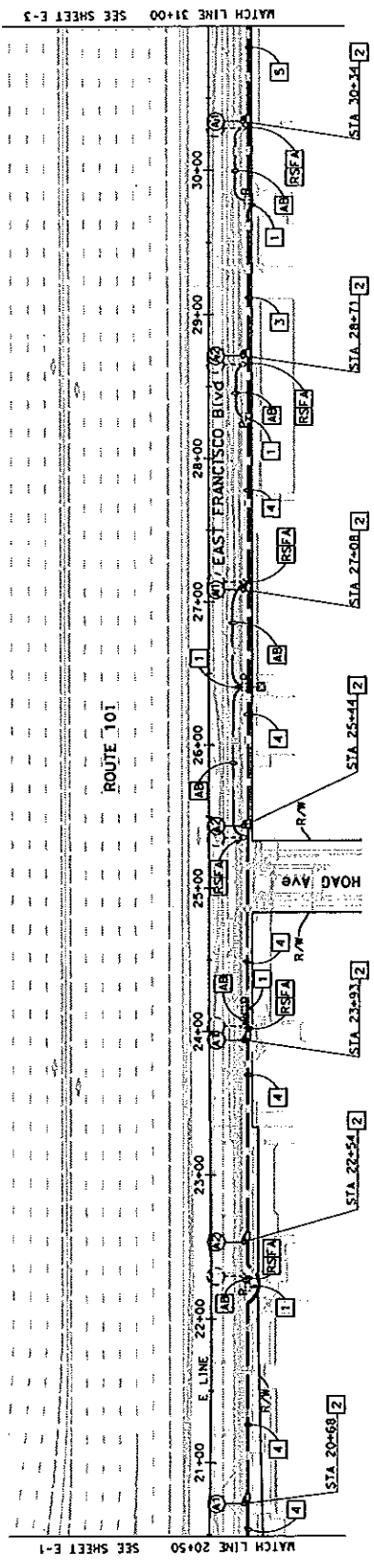
1. EXISTING POLE PULL BOX. SEE DEMOLITION PLAN FOR DETAIL.
2. SEE DETAIL A ON SHEET E-1 FOR POLE LOCATION.
3. 2" C, 2#6 (240 V LIGHTING).
4. 2" C, 4#6 (240 V LIGHTING).
5. 2" C, MT.

NOTE:

1. SEE SHEET E-1 FOR GENERAL AND STANDARD NOTES, ABBREVIATIONS AND LEGEND.

PROJECT NOTES (FOR THIS SHEET ONLY):

1. EXISTING POLE PULL BOX. SEE DEMOLITION PLAN FOR DETAIL.
2. SEE DETAIL A ON SHEET E-1 FOR POLE LOCATION.
3. 2" C, 2#6 (240 V LIGHTING).
4. 2" C, 4#6 (240 V LIGHTING).
5. 2" C, MT.



MATCH LINE 20+50 SEE SHEET E-1

MATCH LINE 31+00 SEE SHEET E-3

ROUTE 101

HOAG AVE

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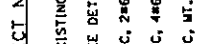
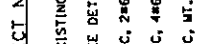
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SCALE AS NOTED
 DATE: 07/23/10
 PROJECT NO.: 14
 SHEET NO.: E-2
 DRAWING # OF 5

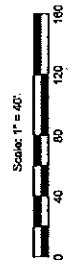
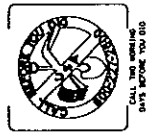
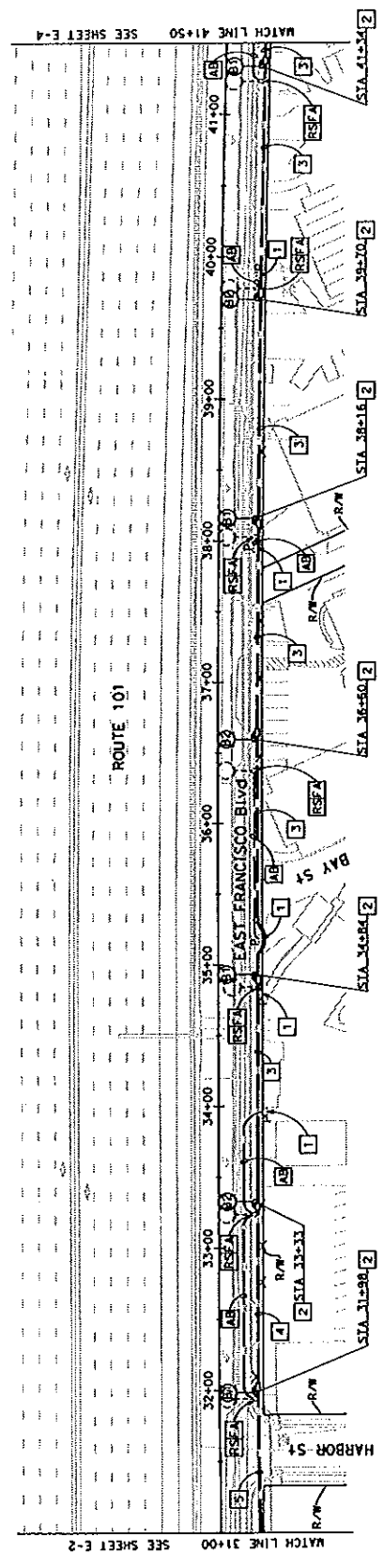
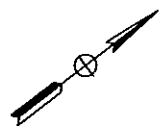
SCALE:

DATE	DESIGNED	PROJECT NAME	CITY OF SAN RAFAEL
APPROVED	PROJECT NO.	DEPARTMENT OF PUBLIC WORKS	
CHECKED	SHEET NO.		
DRAWN	DRAWING NO.		
NO. REVISION	BY	DATE	

NOTE:
 1. - SEE SHEET E-1 FOR GENERAL AND STANDARD NOTES, ABBREVIATIONS AND LEGEND.

PROJECT NOTES (FOR THIS SHEET ONLY):

- 1. EXISTING PG&E PULL BOX. SEE DEMOLITION PLAN FOR DETAIL.
- 2. SEE DETAIL A ON SHEET E-1 FOR POLE LOCATION.
- 3. 2" C, 4#6 (208 V LIGHTING).
- 4. 2" C, 2#6 (208 V LIGHTING).
- 5. 2" C, MT.



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

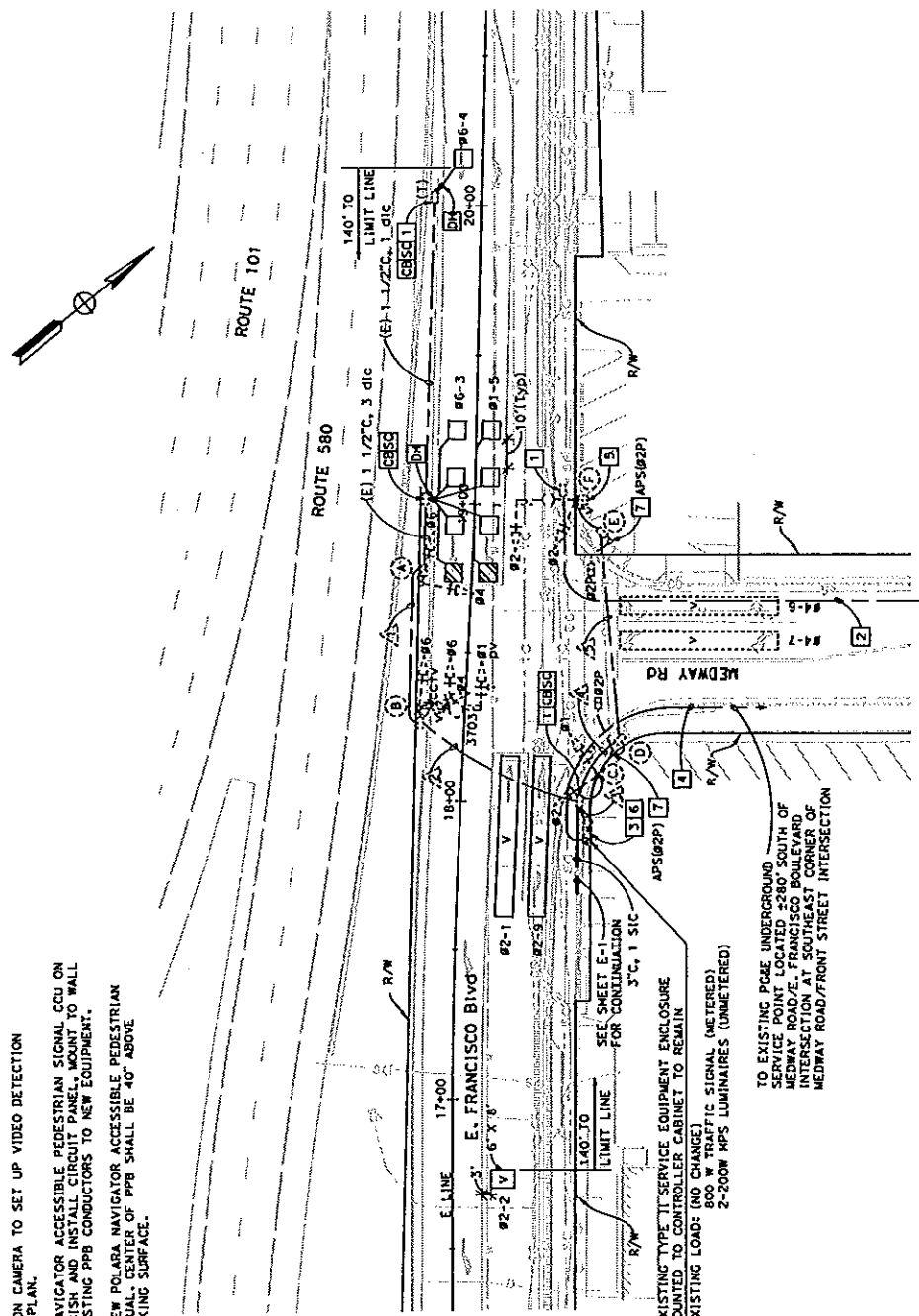
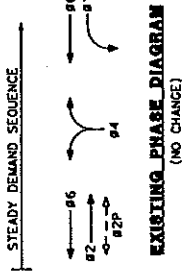


SCALE AS NOTED
 DATE 07/27/10
 PROJECT NO. 14
 SHEET NO. E-3
 DRAWING NO. 42 OF 55

NOTE:
 1. SEE SHEET E-1 FOR GENERAL NOTES, LEGEND, AND ABBREVIATION.

PROJECT NOTES: (FOR THIS SHEET ONLY)

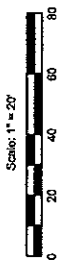
- 1 ADJUST EXISTING PULL BOX TO FINAL GRADE.
- 2 EXISTING 4" C, mt TO REMAIN.
- 3 EXISTING TYPE ASC/2 CONTROLLER WITH TYPE P CONTROLLER CABINET TO REMAIN.
- 4 EXISTING 1 1/2" C, 3#6 (SERVICE) TO REMAIN.
- 5 PROGRAM VIDEO DETECTION CAMERA TO SET UP VIDEO DETECTION ZONE AS SHOWN ON THE PLAN.
- 6 FURNISH AND INSTALL NAVIGATOR ACCESSIBLE PEDESTRIAN SIGNAL CCU ON SHELF IN CABINET. FURNISH AND INSTALL CIRCUIT PANEL AND TERMINAL WALL OF CABINET. REWIRE EXISTING PPB CONDUCTORS TO NEW EQUIPMENT.
- 7 FURNISH AND INSTALL NEW POLARA NAVIGATOR ACCESSIBLE PEDESTRIAN SIGNAL OR APPROVED EQUAL. CENTER OF PPB SHALL BE 40" ABOVE FINISHED GRADE OF WALKING SURFACE.



EXISTING TYPE IT SERVICE EQUIPMENT ENCLOSURE MOUNTED TO CONTROLLER CABINET TO REMAIN
 EXISTING LOAD: (NO CHANGE)
 800 W TRAFFIC SIGNAL (METERED)
 2-200W HPS LUMINAIRES (UNMETERED)

TO EXISTING POLE UNDERGROUND SERVICE POINT LOCATED ~280' SOUTH OF MEDWAY ROAD/E. FRANCISCO BOULEVARD INTERSECTION AT SOUTHEAST CORNER OF MEDWAY ROAD/FRONT STREET INTERSECTION

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

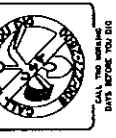


CONDUCTOR SCHEDULE	
ARG OR CABLE	CONDUIT RUN
DESIGNATION	CONDUIT RUN
#1	3 6
#2	6 3 3
#4	3 3 3
#6	3 3 3
#2P	2 2 2
SPARES	3 3 3 3
TOTAL No. 14	9 12 28 10 10
SIGNAL/LIGHT COMMON	1 1 2 1 1 1
LIGHTING	1 2 1 1 1
TOTAL No. 10	1 2 4 2 2
#1	1 1 1 1
#6	2 2 2
TOTAL DLC	3 3 3
#4	1 1 1
TOTAL VLD CABLE	1 2 1 1 1
SIC INTERCONNECT (6 PAIR #20)	1 1
CCTV	1 1
CONDUIT SIZE	2" 2" 3" 3" 2"
CONDUIT FILL (%)	1.3 2.6 2.7 1.5
E = EXISTING	E E E E E

ALL CONDUCTORS, CABLES AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.
 * INSTALL NEW CONDUCTORS/CABLES IN EXISTING CONDUIT.
 + REUSE EXISTING PPB CONDUCTORS TO APS.

LOCATION	STANDARD		VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	APS		HPS LUMINAIRE (WATTS)	STREET NAME SIGN LEGEND	SPECIAL REQUIREMENT #
	TYPE	SIG. MA (FEET)	LUM. MA (FEET)	MAST ARM		POLE	Ø			
(A)	EXISTING 1-A	20	12	17-3-80	1v-2-t			200	Medway Rd	ALL EXISTING EQUIPMENT TO REMAIN.
(B)	EXISTING 1-A	20	12	17-3-80	sv-2-rb			200	Medway Rd	ALL EXISTING EQUIPMENT TO REMAIN.
(C)	EXISTING 1-A	20	12	17-3-80	1v-2-t			200	Medway Rd	ALL EXISTING EQUIPMENT TO REMAIN.
(D)	EXISTING 1-A	20	12	17-3-80	1v-2-t	2P	N	200	Medway Rd	REPLACE EXISTING PPB WITH NEW POLARA NAVIGATOR APS OR APPROVED EQUAL. ALL OTHER EXISTING EQUIPMENT TO REMAIN.
(E)	EXISTING 1-A	20	12	17-3-80	1v-2-t	2P	N	200	Medway Rd	REPLACE EXISTING PPB WITH NEW POLARA NAVIGATOR APS OR APPROVED EQUAL. ALL OTHER EXISTING EQUIPMENT TO REMAIN.
(F)	EXISTING 19-1-80	20	15	19-1-80	sv-1-t			200	Medway Rd	ALL EXISTING EQUIPMENT TO REMAIN.

* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
 FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.
 N = NEW EQUIPMENT



CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE: 01/25/70
 PROJECT NO. 14
 SHEET NO. F-7
 DRAWING # 220555

DESIGNED BY DATE
 CHECKED BY DATE
 APPROVED BY DATE

PROJECT NAME: EAST FRANCISCO BLVD.
 FROM WYMAN ST. TO GRAND AVE. BRIDGE

DRAWN NAME: SIGNAL AND LIGHTING
 (CONDUCTOR POLE AND EQUIPMENT SCHEDULES)
 SAN RAFAEL COUNTY OF MARY, CALIFORNIA

PROJECT NO. 14
 SHEET NO. F-7
 DRAWING # 220555



GRAPHIC SCALE
 1" = 30'
 0' 15' 30'

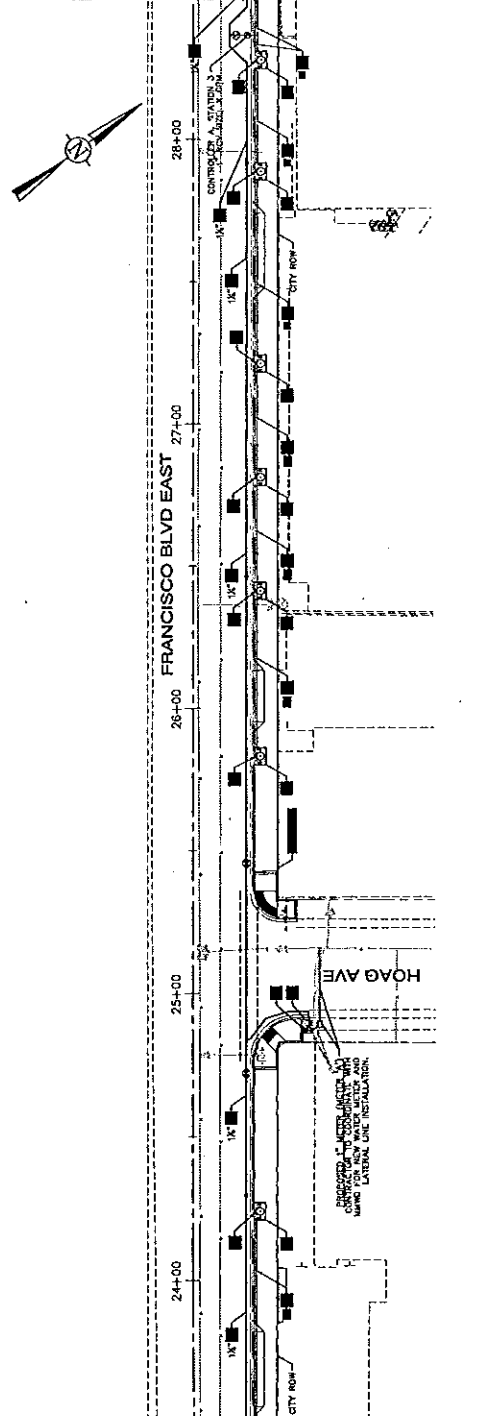
CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



SCALE: 1" = 30'
 DATE: FEBRUARY 2010
 PROJECT NO.: 11114
 SHEET NO.: 2
 DRAWING: 31 OF 50

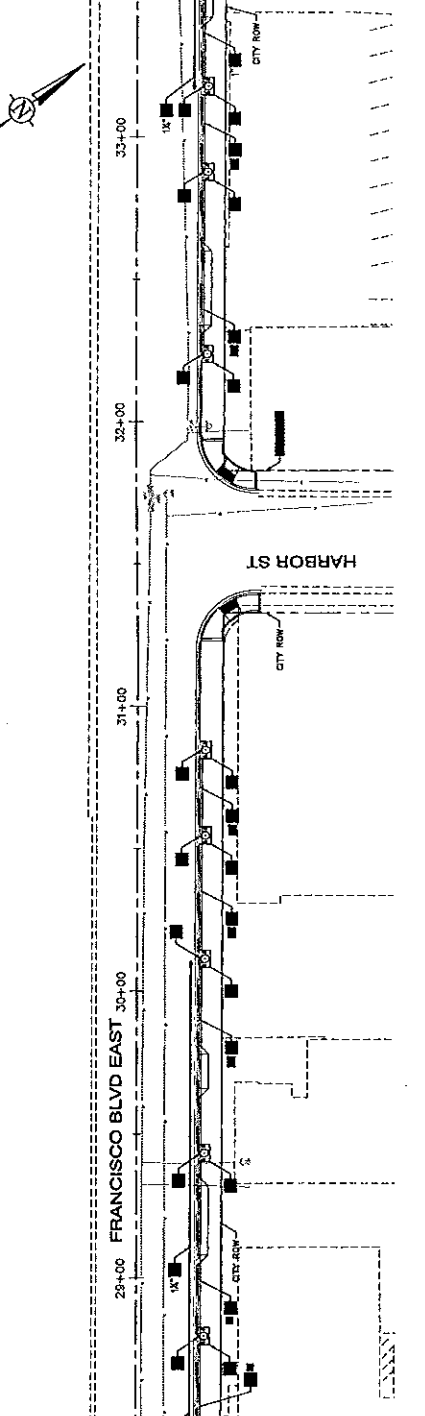
PROJECT NAME	EAST FRANCISCO BLVD.		
FROM MAIN ST. TO GRAY AVE BRIDGE			
PLANNING AND IRRIGATION PLAN			
CITY OF SAN RAFAEL			
COUNTY OF MARIN			
CALIFORNIA			
NO.	PERSON	BT	DATE
RECORD			
DESIGNED			
CHECKED			
APPROVED			
DATE			

MATCHLINE STA 28+50 - SEE BELOW



MATCHLINE STA 23+50 - SEE SHEET L-1

MATCHLINE STA 33+50 - SEE SHEET L-3




MATCHLINE STA 28+50 - SEE ABOVE



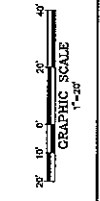
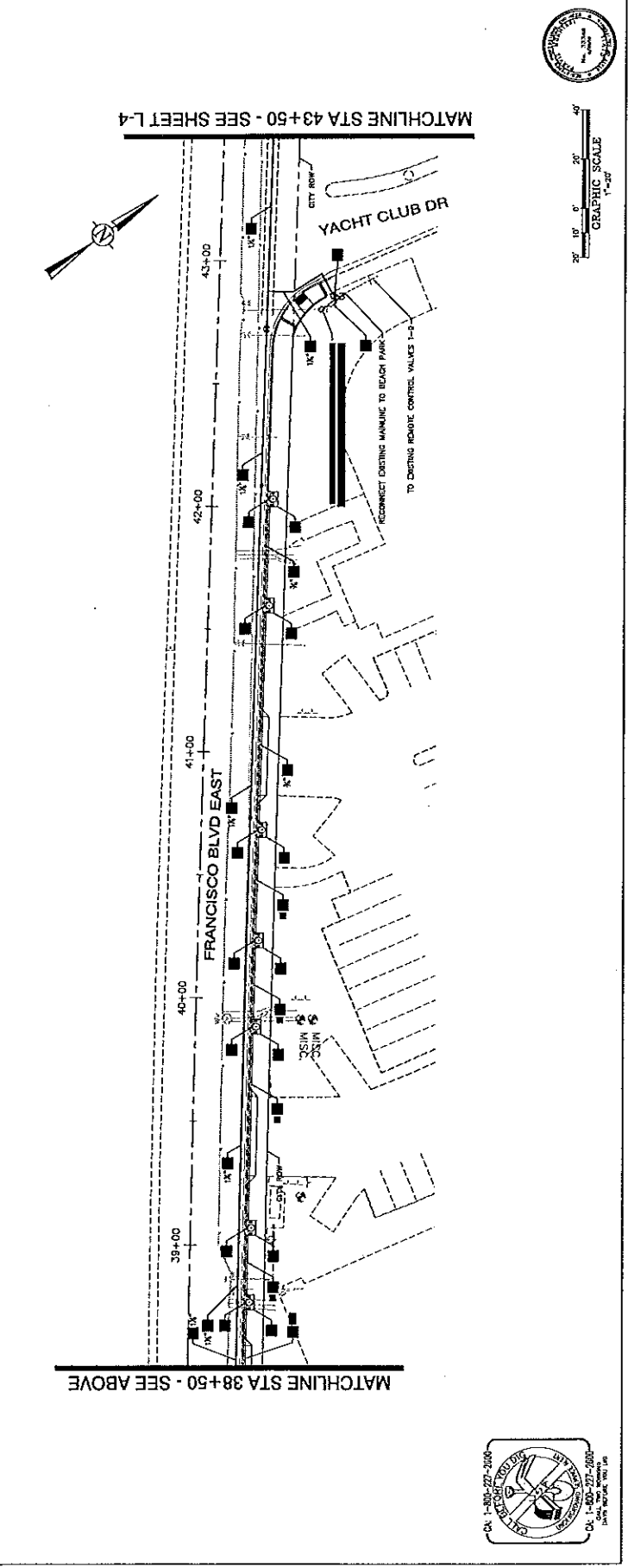
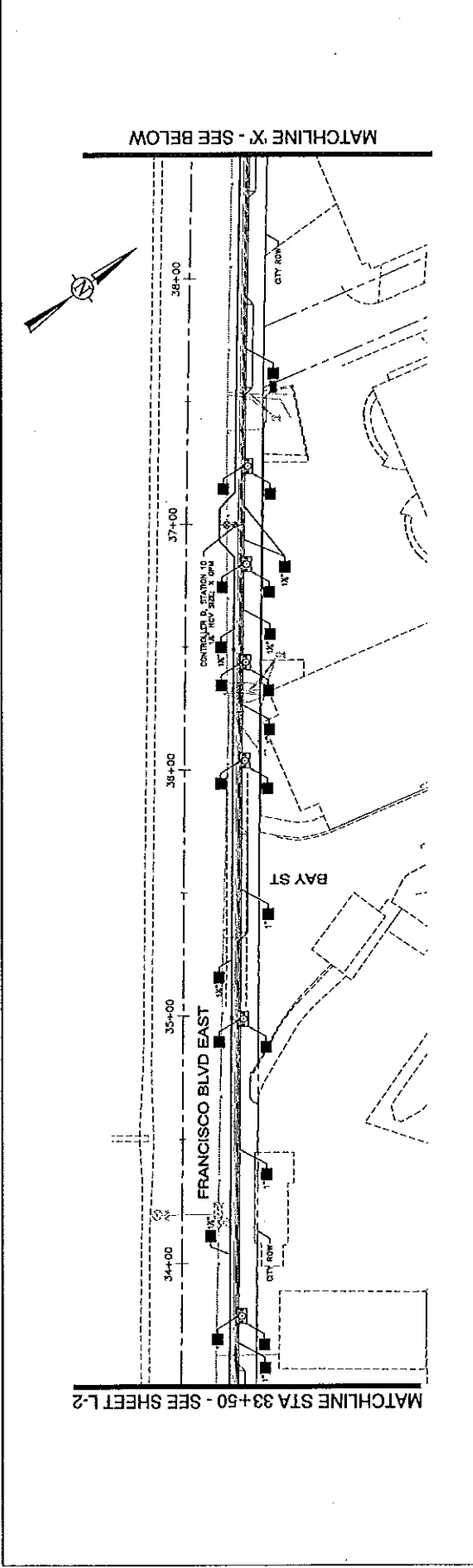
DESIGNED BY	NO.	PERSON	ST.	DATE
BLVD/AVENUE				
CHECKED BY				
DATE				
APPROVED				
DATE				
PROJECT NAME	EAST FRANCISCO BLVD.			
DESIGN NAME	PLANTING AND IRRIGATION PLAN			
CITY	SAN RAFAEL			
COUNTY	COUNTY OF MARIN			

PROJECT NAME
 EAST FRANCISCO BLVD.
 DESIGN NAME
 PLANTING AND IRRIGATION PLAN
 CITY
 SAN RAFAEL
 COUNTY OF MARIN

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



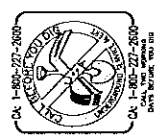
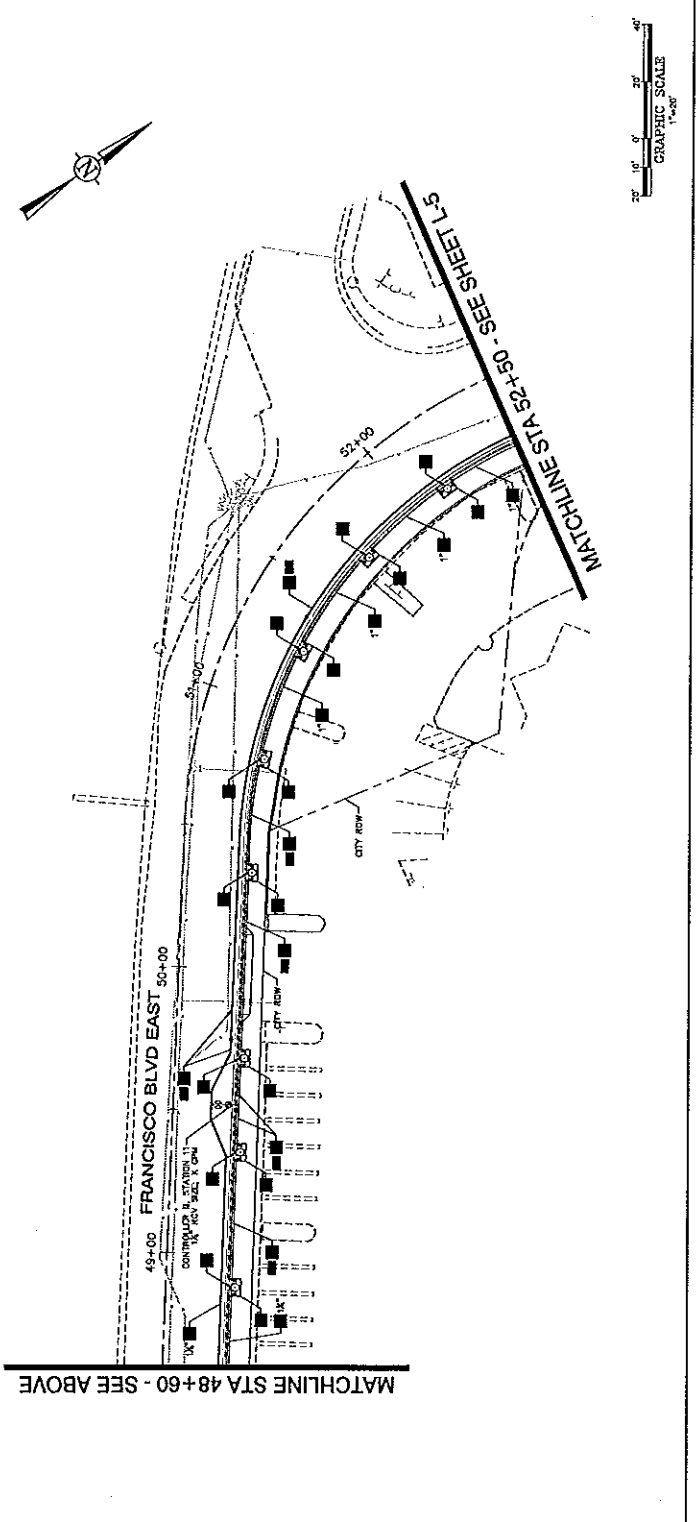
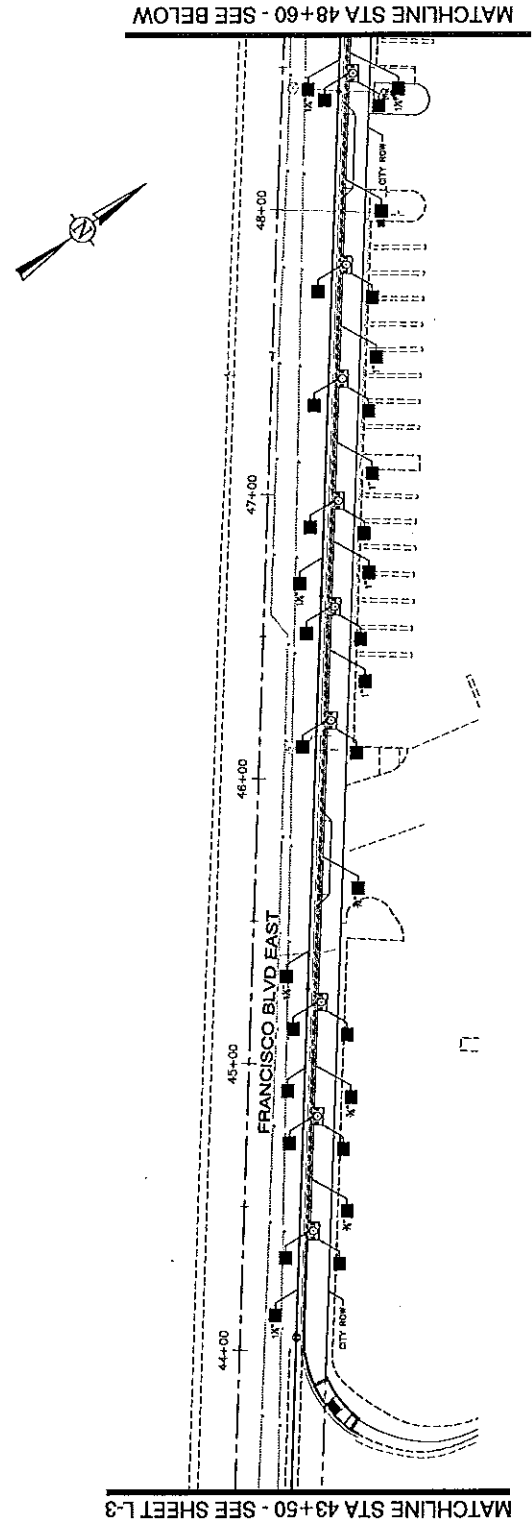
SCALE: 1" = 20'
 DATE: FEBRUARY 2010
 PROJECT NO.: 11114
 SHEET NO.: L-3
 DRAWING NO.: 22 OF 25



PROJECT NAME	EAST FRANCISCO BLVD. FROM WYAN ST. TO GRAND AVE BRIDGE
DRAWING NAME	PLANTING AND IRRIGATION PLAN
CITY	SAN RAFAEL
COUNTY	CONTRA COSTA
DATE	
DESIGNED BY	BLANQUET
CHECKED BY	
DATE	
SCALE	
NO.	
REV.	
DATE	

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE	1" = 20'
DATE	FEBRUARY 2010
PROJECT NO.	
SHEET NO.	1114
OF	4
DRAWING	33 OF 35



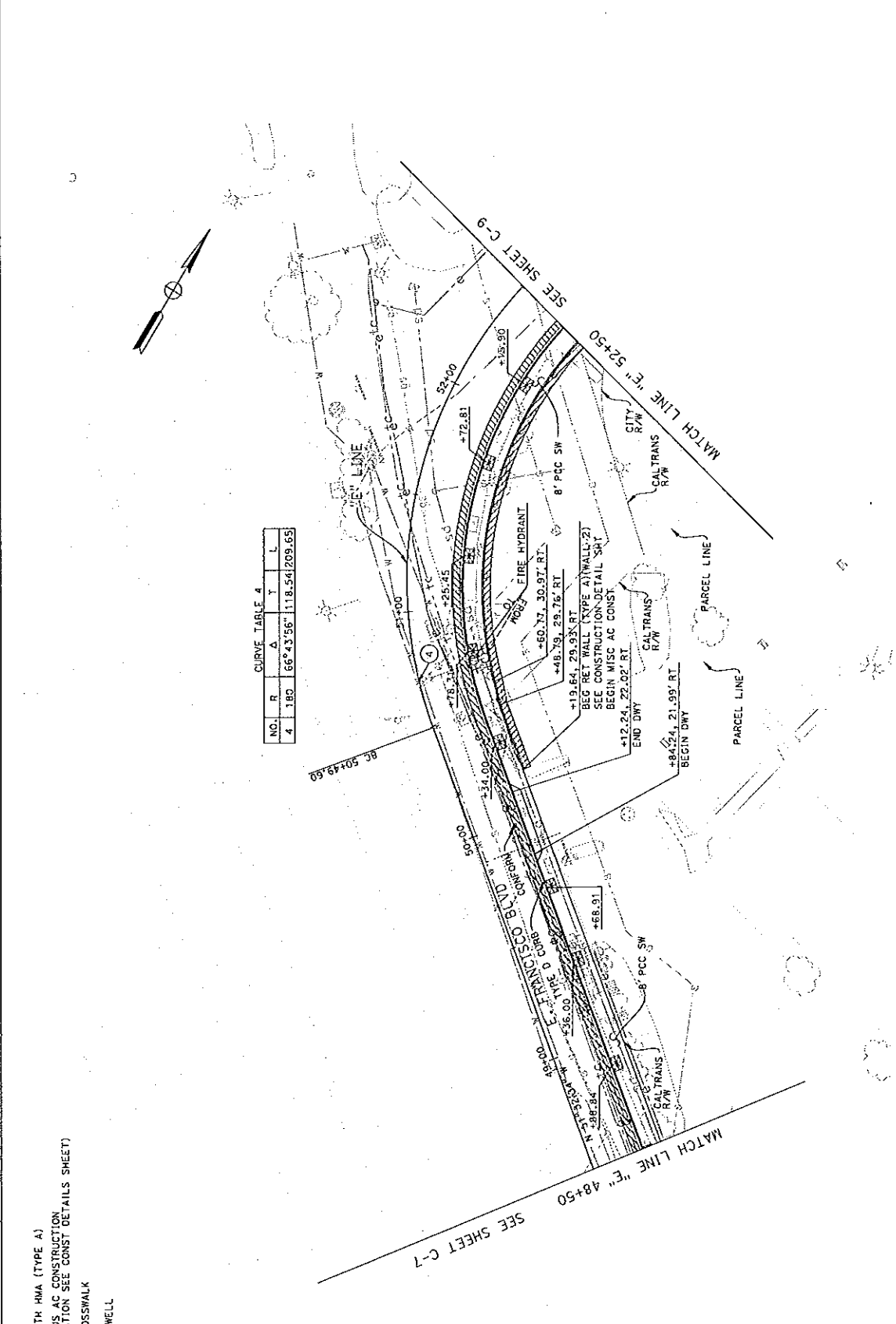
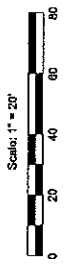
DATE	DATE
APPROVED	APPROVED
CHECKED	CHECKED
DRAWN	DRAWN
DESIGNED	DESIGNED
REVISION BY DATE	REVISION BY DATE

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. BRIDGE
CONSTRUCTION PLAN
E 48+50 TO 52+50
SAN RAFAEL COUNTY OF MARIN, CALIFORNIA

JACOBS
180 PROVENDE CORCE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 929-3323
FAX (916) 929-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. C-8
DRAWING 21 OF 55



CURVE TABLE 4

NO.	R	A	T	L
4	180	66°43'56"	118.54	209.65

- LEGEND:
- 12" FULL DEPTH HMA (TYPE A)
 - MISCELLANEOUS AC CONSTRUCTION (FOR INFORMATION SEE CONST DETAILS SHEET)
 - CONCRETE CROSSWALK
 - 4' x 6' TREE WELL



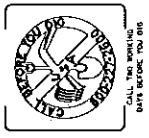
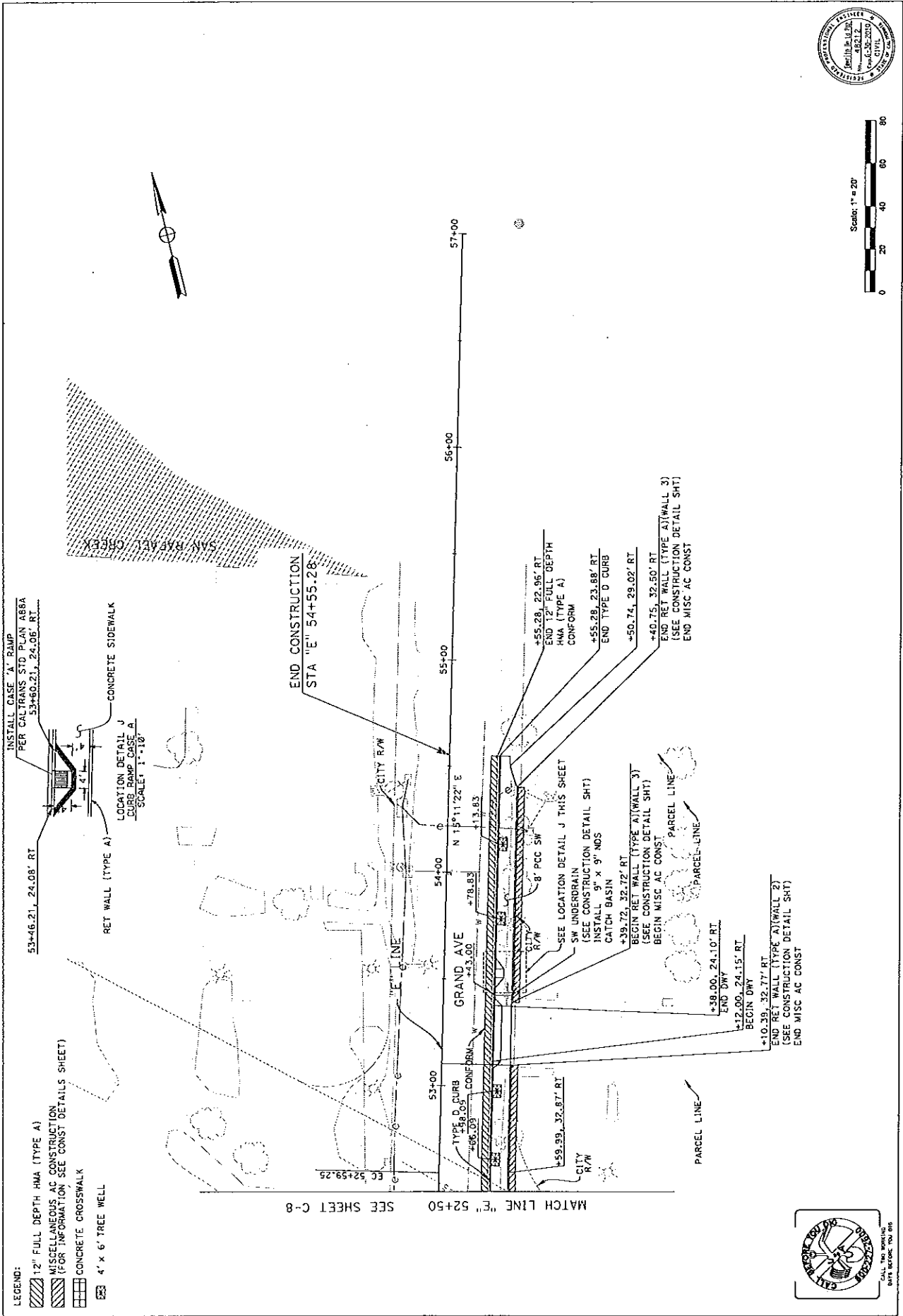
DATE	DATE	DATE	DATE

JACOBS
 180 PROVENDE CRCL, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 929-3323
 FAX (916) 929-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. 11.14
C-9
DRAWING 22 OF 55



DATE	DESIGNED BY	DATE
	DESIGNED BY	
	CHECKED	
	APPROVED	

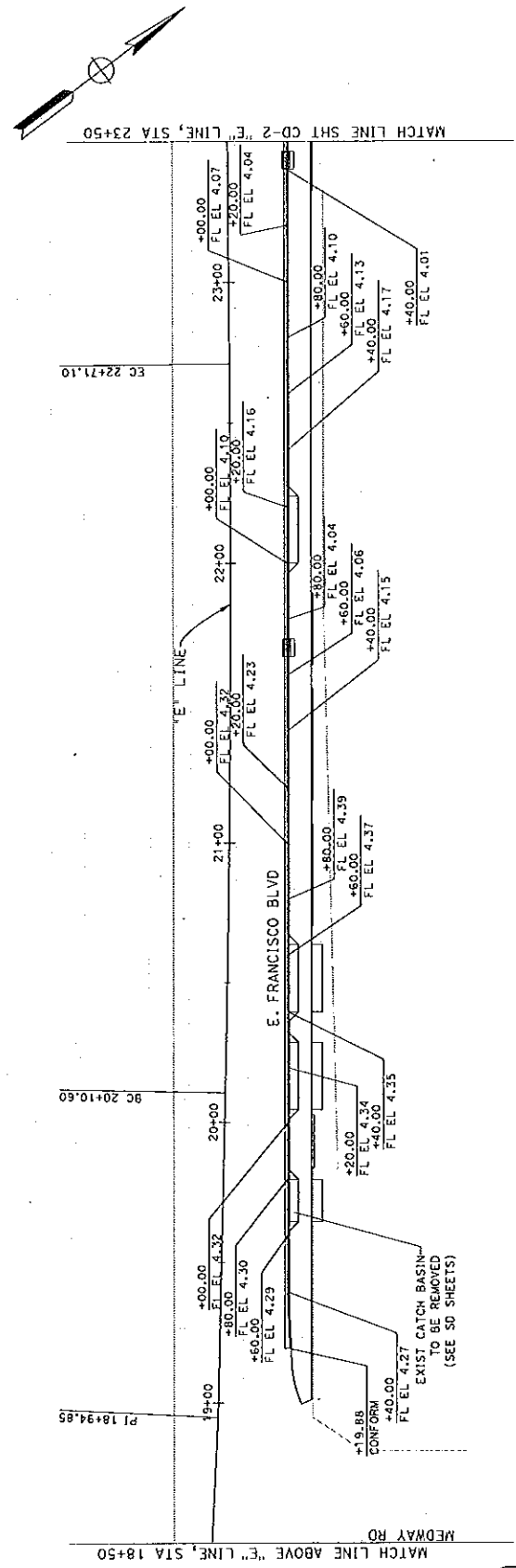
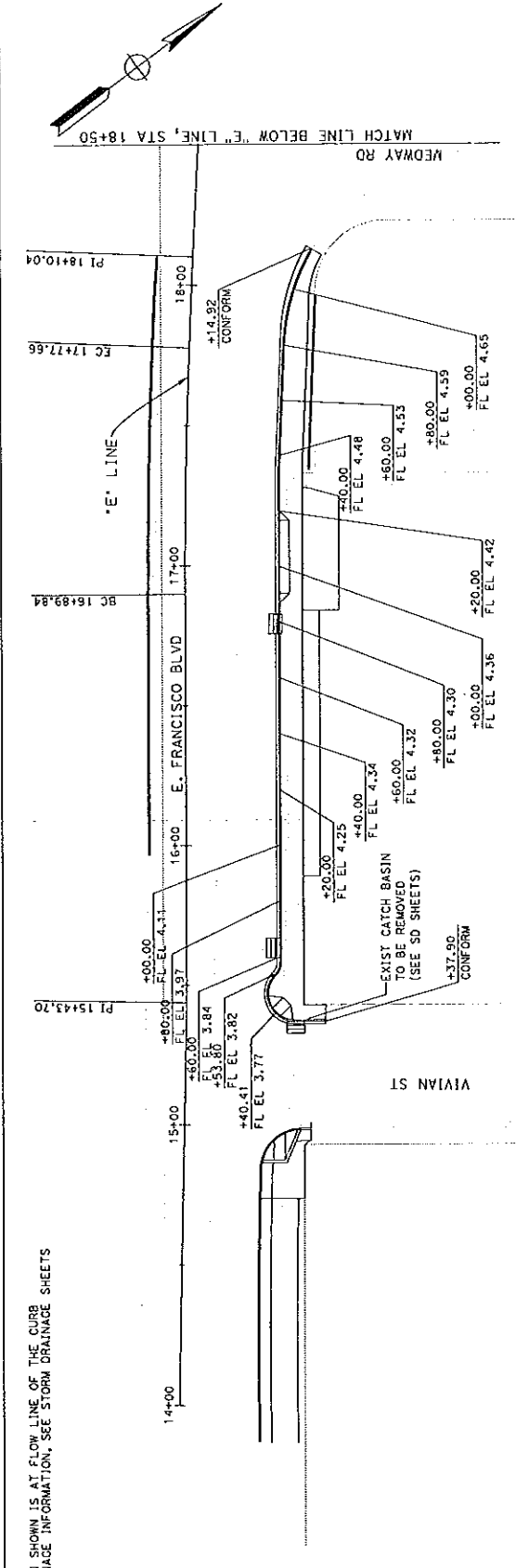
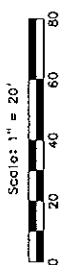
PROJECT NAME
EAST FRANCISCO BLD.
FROM VIVIAN ST. TO GRAND AVE. 6710CE

AVENUE ELEVATION DETAILS
"E" 14+00 TO 20+50
SAN RAFAEL COUNTY ST. MAIN CALIFORNIA

JACOBS
180 PROMENADE ORCHIE, STE 200
SACRAMENTO, CA 95834
PHONE (916) 929-9323
FAX (916) 929-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 06032
SHEET NO. CD-1
DRAWING 2 OF 55



NOTE:
1. ELEVATION SHOWN IS AT FLOW LINE OF THE CURB
2. FOR DRAINAGE INFORMATION, SEE STORM DRAINAGE SHEETS



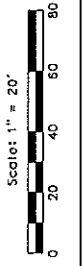
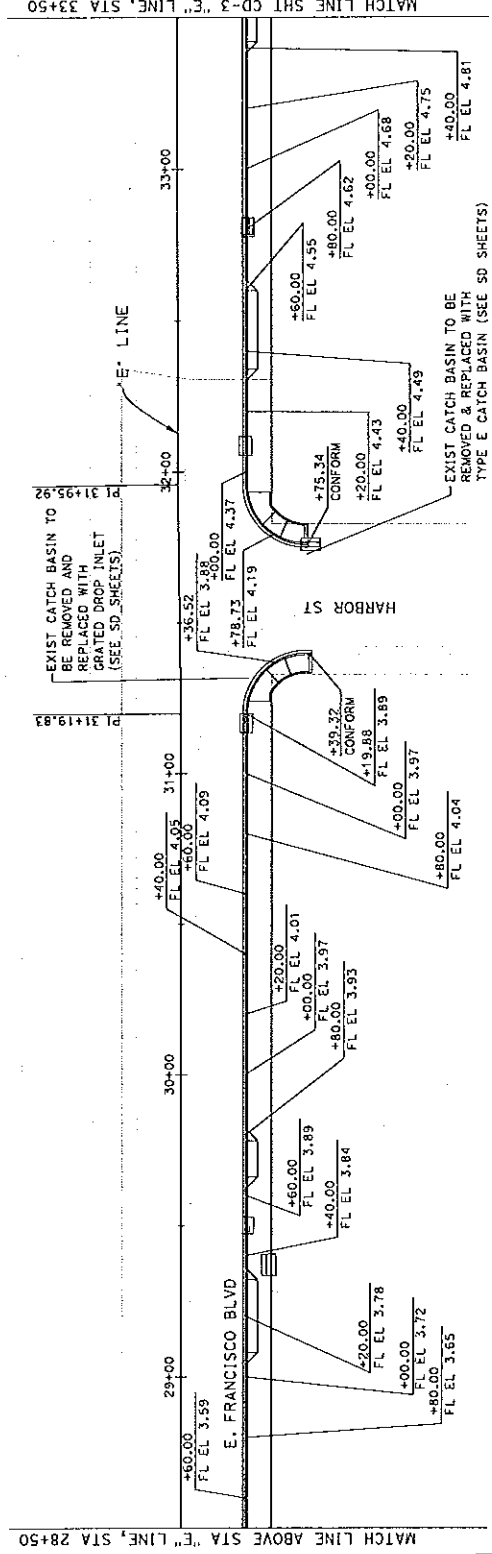
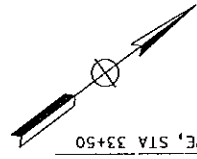
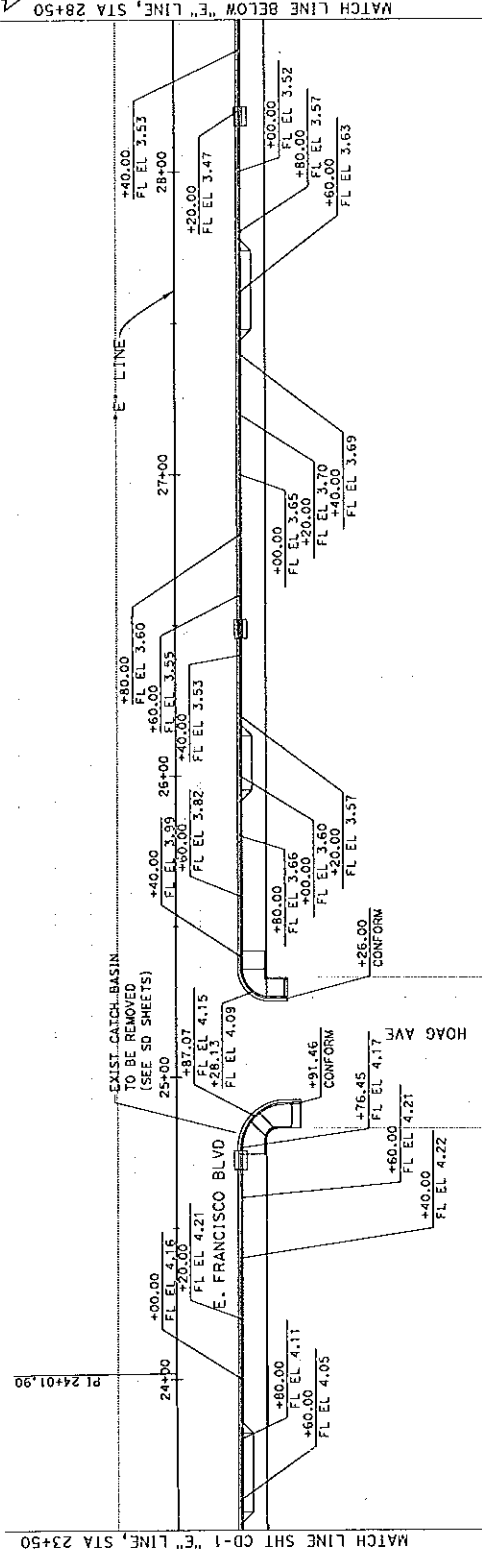
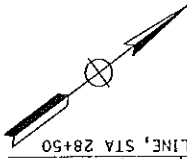
DATE	DATE
DESIGNED BY	APPROVED
DRAWN BY	CHECKED
PROJECT NAME	PROJECT NO.
EAST FRANCISCO BLVD.	CD-2
EAST FRANCISCO BLVD.	SHEET NO.
FROM VIADUCT TO GRAND AVE. BRIDGE	DATE
ELEVATION DETAILS	SCALE AS NOTED
E. 23+50 TO 33+50	3/26/10
PLAN SHEET COUNT OF MAIN SHEETS	PROJECT NO.
1	1114

JACOBS
 150 PROVENUE CIRCLE, STE 300
 SAN FRANCISCO, CA 95534
 PHONE (415) 928-3323
 FAX (415) 928-1722

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 1114
SHEET NO. CD-2
DRAWING 24 OF 25

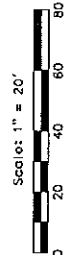
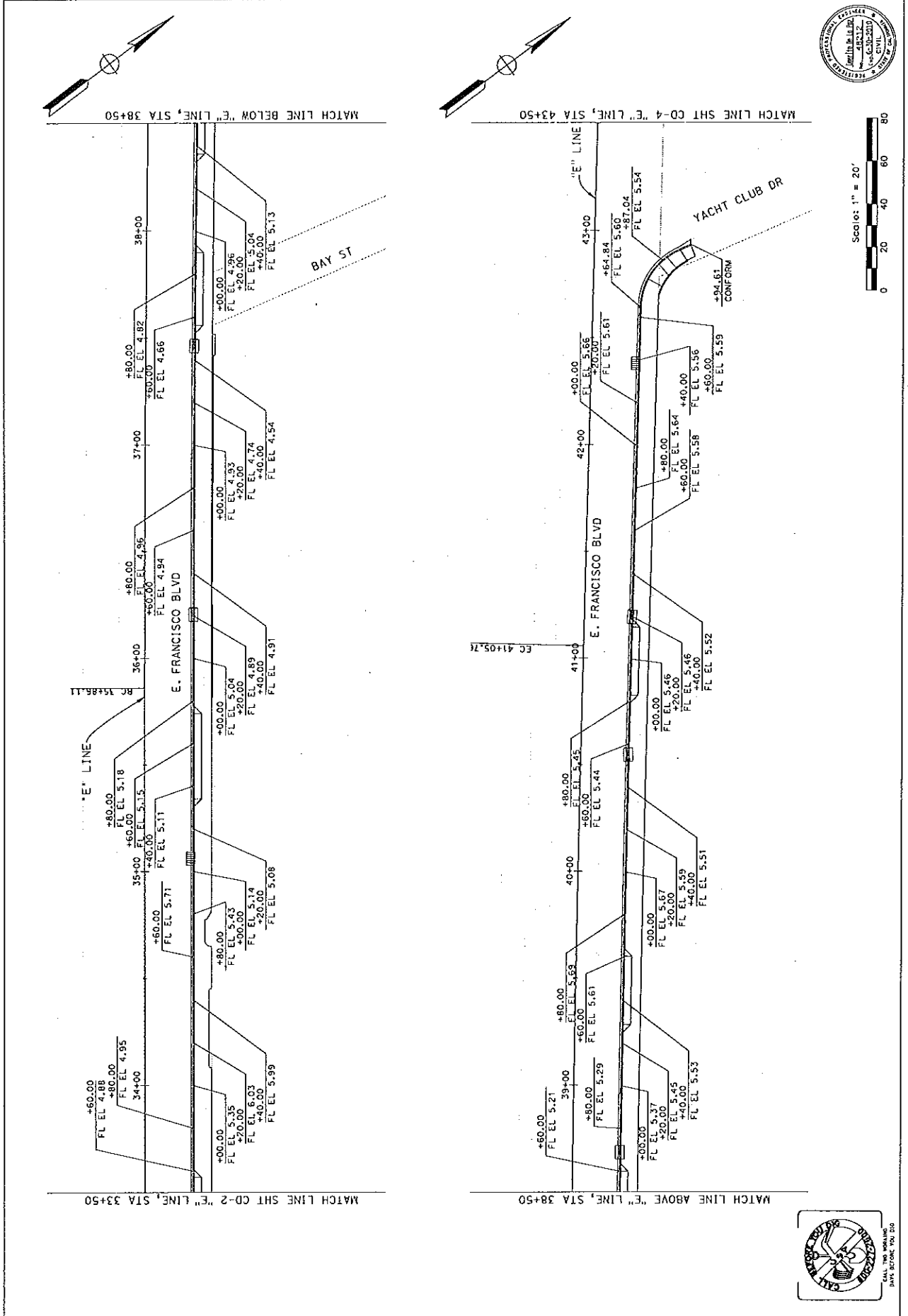


PROJECT NAME: EAST FRANCISCO BLVD.
 DRAWING NAME: PAVEMENT ELEVATION DETAILS
 FROM VIADUCT, 10 CALVO AVE., BALDWIN
 180 PAVEMENT CIRCLE, STE 300
 SACRAMENTO, CA 95834
 PHONE (916) 923-9323
 FAX (916) 923-1772

JACOBS

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE: 3/26/10
 PROJECT NO.: 48312
 SHEET NO.: CD-3
 DRAWING NO.: 230P-52



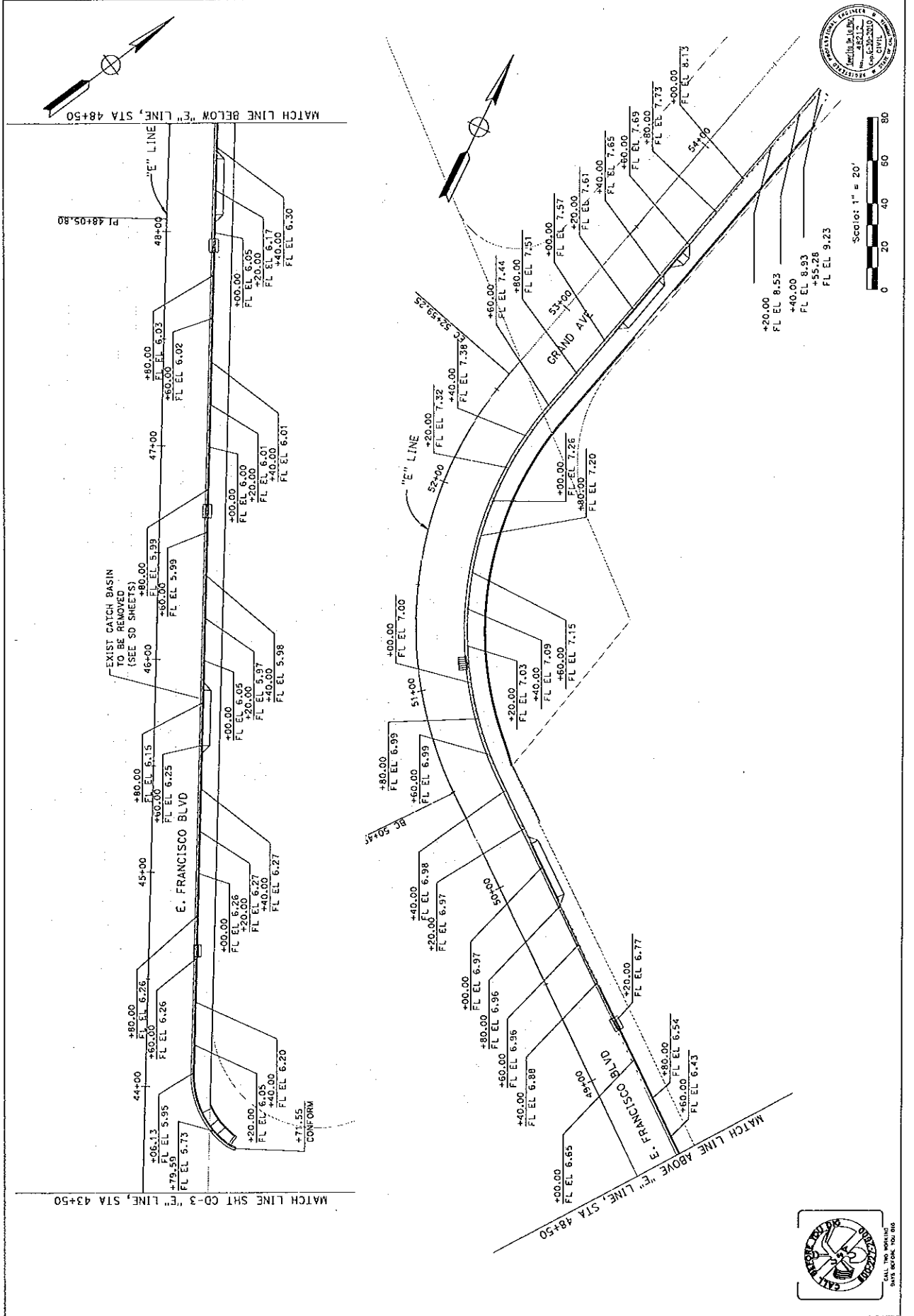
CALL TWO WORKING DAYS BEFORE YOU DIG

DATE	DESIGNED BY	DATE
	REVISIONS	
	CHECKED	
	APPROVED	

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIAJAY ST. TO GRAND AVE. BRIDGEDRAWING NAME
PAVEMENT ELEVATION DETAILS
"E" 43+50 TO 54+55
SAN RAFAEL COUNTY OF MARIEN, CALIFORNIA

JACOBS
189 PROVEDALE CIRCLE, STE 300
SACRAMENTO, CA 95834
PHONE (916) 828-3223
FAX (916) 828-1772

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS
SCALE AS NOTED
DATE 3/26/10
PROJECT NO. 48212
SHEET NO. CD-4
DRAWING 26 OF 55



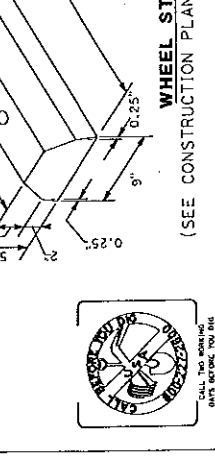
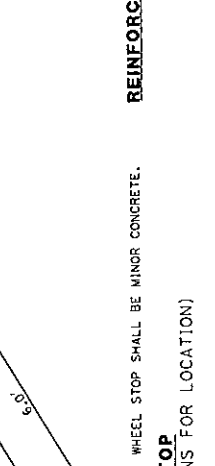
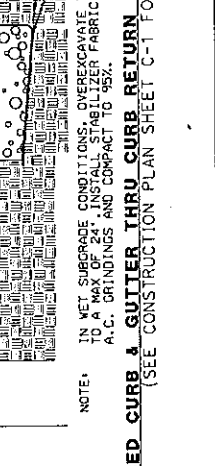
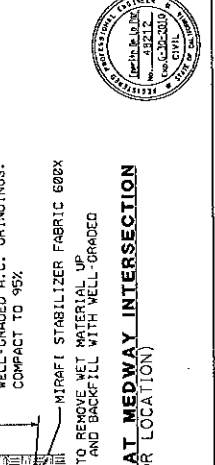
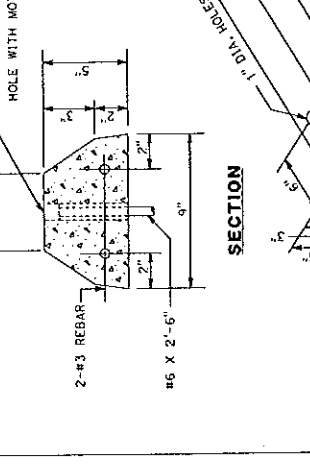
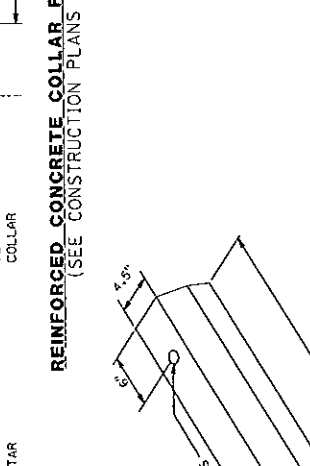
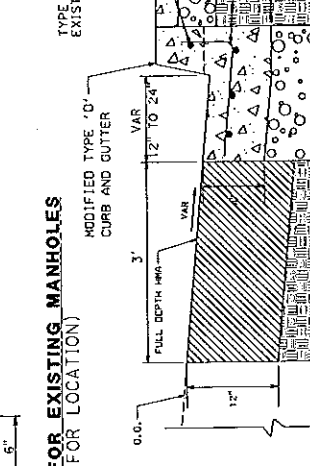
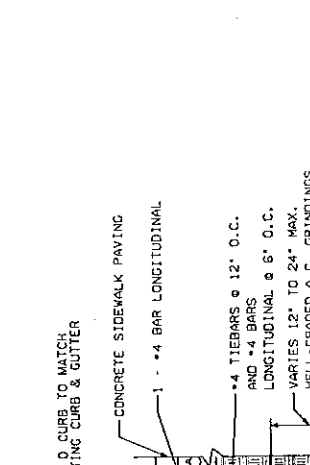
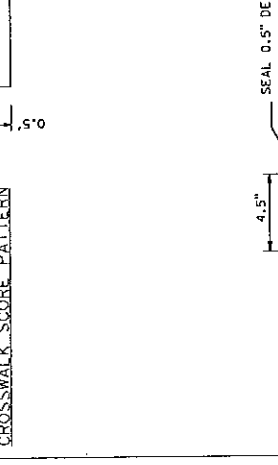
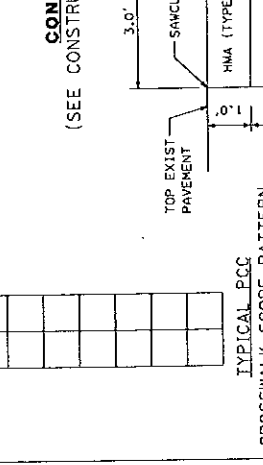
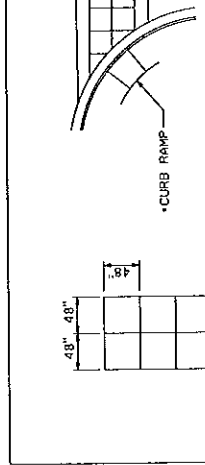
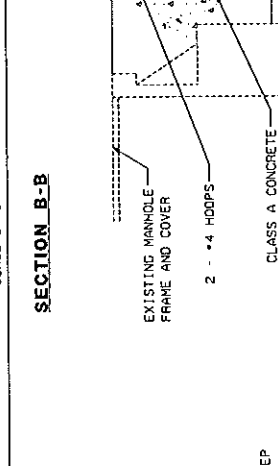
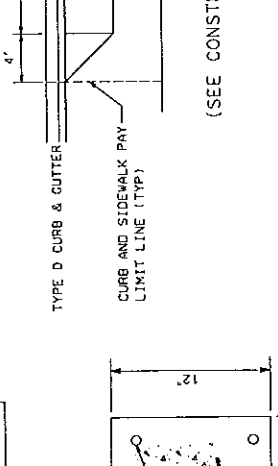
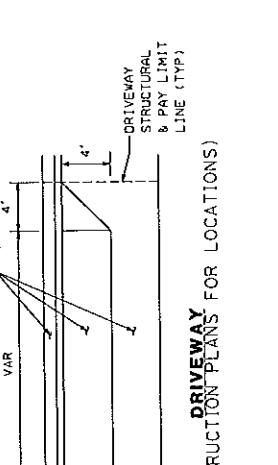
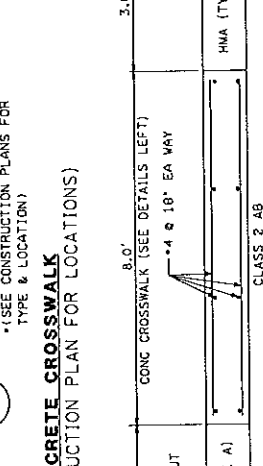
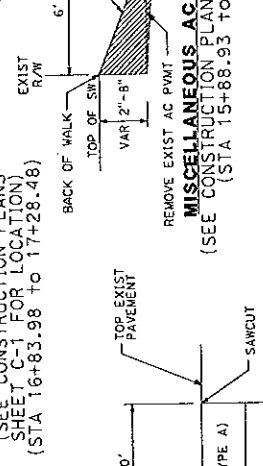
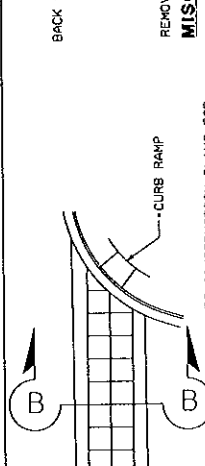
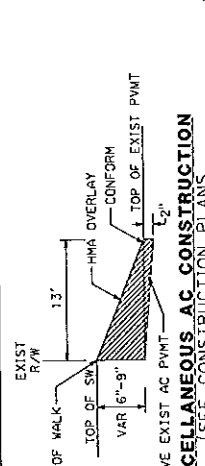
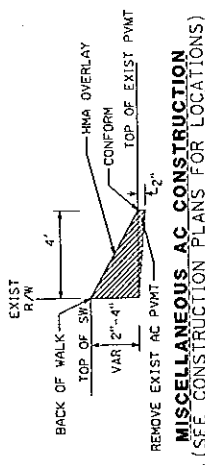
DESIGNED	DATE
CHECKED	DATE
APPROVED	DATE

CONSTRUCTION DETAILS
 DRAWING NAME
 FROM VIVIAN ST. TO GRAND AVE. BRIDGE
 EAST FRANCISCO BLVD.
 PROJECT NAME

JACOBS
 160 PROVENANCE CIRCLE, SUITE 300
 SACRAMENTO, CA 95833
 PHONE (916) 282-3323
 FAX (916) 291-1772

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

NOT TO SCALE
 DATE 3/26/10
 PROJECT NO. 1114
 SHEET NO. CD-5
 DRAWING 27 OF 55



NOTE:
 IN NEW SUBGRADE CONDITIONS OVEREXCAVATE TO REMOVE NET MATERIAL UP TO A MAX OF 24". INSTALL STABILIZER FABRIC AND BACKFILL WITH WELL-GRADED A.C. GRINDINGS AND COMPACT TO 95%.

WHEEL STOP SHALL BE MINOR CONCRETE.
 WHEEL STOP
 (SEE CONSTRUCTION PLANS FOR LOCATION)

WHEEL STOP SHALL BE MINOR CONCRETE.
 WHEEL STOP
 (SEE CONSTRUCTION PLANS FOR LOCATION)

WHEEL STOP SHALL BE MINOR CONCRETE.
 WHEEL STOP
 (SEE CONSTRUCTION PLANS FOR LOCATION)





MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

December 12, 2013

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Equipment Staging
Francisco Boulevard East Improvements, Phase II; Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

This letter discusses requirements for location of the construction staging area for this project.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

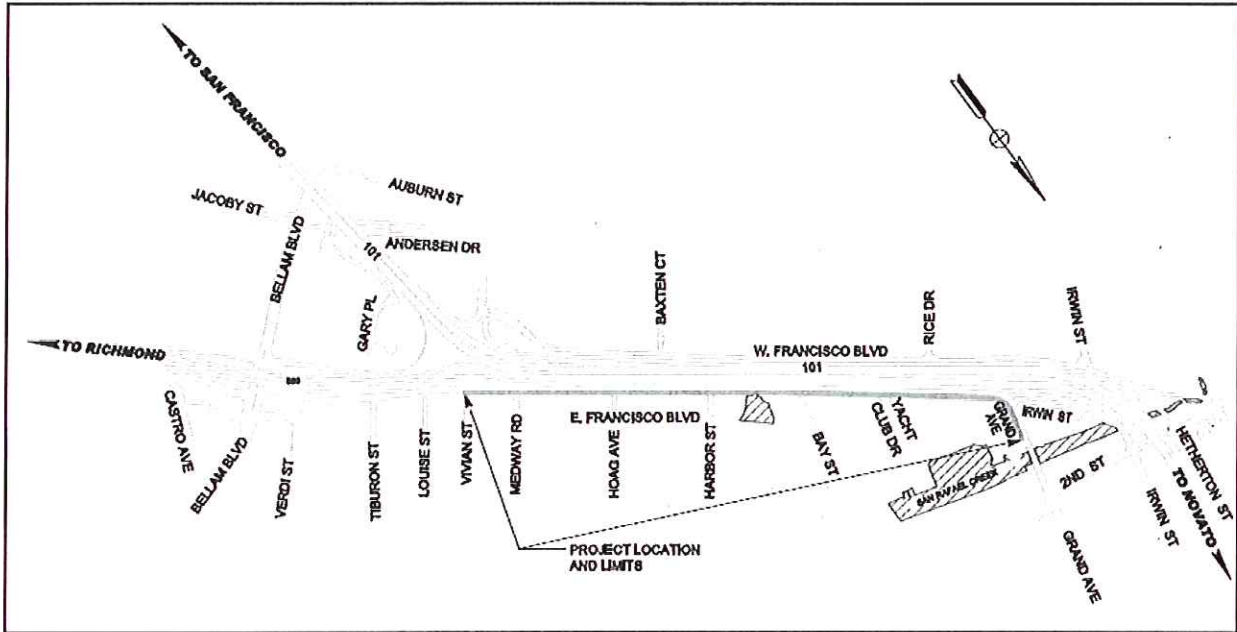


Figure 1: Francisco Boulevard East Improvements Project Location

Discussion

The Special Provisions of the Project Specifications will require the contractor to locate a construction staging area. These provisions will include, at the minimum, the following requirements for locating the staging area:

- The staging area will be located on an existing asphalt or concrete surface area. No staging area will be allowed on undeveloped lots.
- The staging area will be included in the Contractor's SWPPP.
- The staging area will not be located in an environmentally or culturally sensitive area and/or impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs).
- The staging area will not be located in a regulatory floodway or within the base floodplain (100-year).
- The staging area will not affect access to properties or roadways.

Please call me at (415) 485-3408 if you need more information.

Sincerely,

Hunter Young
Assistant Civil Engineer



CITY OF
San Rafael

MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

January 13, 2014

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Hazardous Materials/Hazardous Waste –Thermoplastic Striping Removal
Francisco Boulevard East Improvements, Phase II; Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

This letter demonstrates that the City of San Rafael has procedures and specifications for removing, storing, and disposing of existing hazardous pavement markings and striping that may be removed as part of this project.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

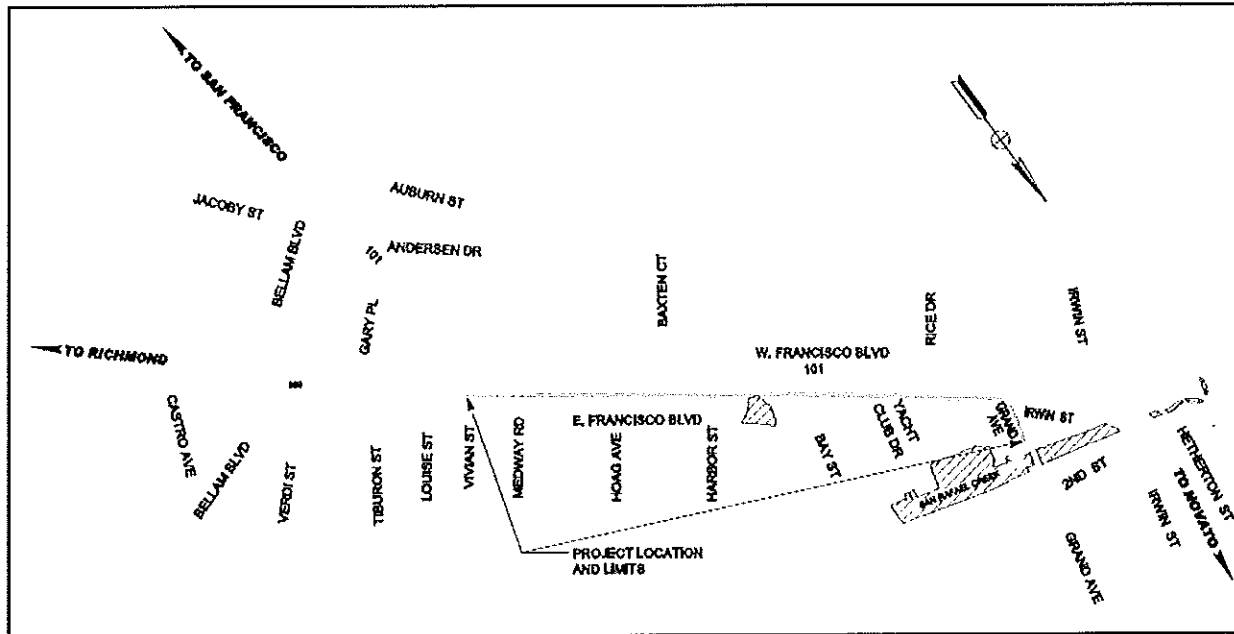


Figure 1: Francisco Boulevard East Improvements Project Location

Existing Conditions

The age of the existing pavement markings and striping are unknown. However, communication with the City of San Rafael indicates that Francisco Boulevard East was last resurfaced in 1982 (Young, November, 2013). According to information available from the California Department of Transportation (Caltrans, 2011), yellow traffic paint installed prior to 1997 and yellow thermoplastic striping installed prior to 2005 is likely to contain lead chromate with concentrations of lead exceeding State and/or Federal criteria for hazardous waste. Old non-yellow paints (e.g. white, blue, black, etc) had higher concentrations of lead than currently allowable but the concentrations of lead are not high enough such that the removed paint would be classified as a hazardous waste. Residue from removal of all non-yellow paints is a non-hazardous waste (Caltrans, 2009).

Procedures

Enclosed is the City of San Rafael’s special provision for the bid item titled “Thermoplastic Traffic Striping and Pavement Markings,” which will be included in the specifications for the project. This portion of the special provisions describes how the existing striping is to be removed and stored while lead testing occurs and then disposed of according to the test results. Furthermore, this section of the special provisions outlines the requirements for lead-free thermoplastic striping material to be used for all new installations.

Prior to removal of existing yellow thermoplastic and paint residue, the construction contractor shall prepare a project specific lead compliance plan, which shall be approved by the City, identifying how to prevent or minimize worker exposure to lead. Preventative measures will include: contractor employees receiving hazardous awareness training and training to use necessary equipment, including HEPA vacuums and mechanical grinder. Hazardous awareness training will include information on the health effects associated with lead exposure, signs and symptoms of lead exposure, review of material safety data sheets, personal hygiene requirements, and personal protective equipment.

The contractor's employees shall take all necessary precautions to protect themselves. Personal protective equipment to be used during grinding operations will include: butyl rubber gloves, leather work gloves over the butyl rubber gloves, disposable overalls, and respiratory protection with half-face negative pressure air purifying respirator with HEPA cartridges.

A mechanical grinder will be used to remove existing striping. The grinder will have a skirt to confine debris to the grinding area, and a HEPA filtered dust collection system. Little to no water will be used in this removal process to prevent contamination from spreading into adjacent storm drain system infrastructure.

Furthermore, after the mechanical grinder removes the striping, the contractor will properly clean up waste within 30 minutes of removal. The material will be placed in watertight debris bags then placed inside properly labeled and covered drums for transport to ensure the removed debris is not released into the environment.

For the past 15 years, the City of San Rafael has only installed lead-free striping. Prior to installation of paint or thermoplastic by private contractors, the City will review the proposed materials for lead-free compliance. Therefore, any striping installed as part of this project will be lead-free and conform to California Standard Specifications as referenced in the project specifications.

Please call me at (415) 485-3408 if you need more information.

Sincerely,



Hunter Young
Assistant Civil Engineer

Attachment: Thermoplastic Traffic Striping and Pavement Markings Special Provisions

References

- Caltrans, 2009. Guidance for SSP 14-001 – Remove Yellow Traffic Stripe and Pavement Markings (Hazardous Waste), June 5.
- Caltrans, 2010. Index to Standard Special Provisions.
http://www.dot.ca.gov/hq/esc/oe/construction_standards.html
- Caltrans, 2009. Bridge Pavement and Striping specifications.
<http://www.dot.ca.gov/hq/esc/ttsb/chemical/specifications.htm>
- Caltrans, 2011. Guideline for Selecting Materials and SSPs for Traffic Striping and Pavement Marking, December. Version 2.0.
- California Manual on Uniform Traffic Control Devices for Streets and Highways (CaMUTCD), 2012. (FHWA's MUTCD 2009 Edition, as amended for use in California), Part 3 Markings. January.

THERMOPLASTIC TRAFFIC STRIPING AND PAVEMENT MARKINGS

General

The work consists of removing existing pavement markers and thermoplastic striping, placing new pavement markers and thermoplastic traffic markings on the finished roadway, and painting curbs in accordance with the State Specification Sections 84 and 85, the California Manual on Uniform Traffic Control Devices, and these Special Provisions.

Materials

Thermoplastic material shall conform to either State Specification 8010-21C-21 or 8010-21C-19. Glass beads to be applied to the surface of the molten thermoplastic material shall conform to the requirements of State Specification 8010-11E-22 (Type II). The Contractor shall submit a Certificate of Conformance.

Placement

The Contractor shall inventory all streets for all traffic control devices (pavement markings, fire hydrant and sewer markers, and exact location and type) prior to overlay. Contractor shall submit a copy of the inventory to the engineer, ten (10) days prior to the overlay. The overlay work may not begin until the inventory is approved.

The Contractor shall also place pavement markers such as blue reflective markers for fire hydrants and green reflective markers for sewer force mains and as shown on State Standard Plan A20A-Detail 2, 9 and 22, thermoplastic roadway markings such as lane markings, arrows, crosswalks, parking stalls, etc., in accordance with State Specification 84-2.04. The roadway markings and pavement markers shall be in similar layout as existing, prior to the street being paved. The Contractor shall be held responsible that the final roadway marking is in similar layout as existing roadway marking. Roadway markings not conforming to existing layout shall be removed and restriped, all at the Contractor's expense.

The final striping shall be cat-tracked and approved by the City prior to the final placement.

At each fire hydrant, the Contractor shall place a blue reflective marker in the center of the lane nearest to the fire hydrant.

Removal of Traffic Stripes And Pavement Markings

Traffic stripes and pavement markings shall be removed at the locations shown on the plans and as directed by the Engineer.

Waste from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking contains lead chromate in average concentrations greater than or equal to 350 mg/kg and less than 1000 mg/kg Total Lead. Residue produced when yellow thermoplastic and yellow paint are removed may contain heavy metals in concentrations that exceed thresholds established by the California Health and Safety Code and may produce toxic fumes when heated.

The removed yellow thermoplastic and yellow paint shall be disposed of at a Class 1 disposal facility or a Class 2 disposal facility permitted by the Regional Water Quality Control Board in conformance with the requirements of the disposal facility operator within 30 days after accumulating 100 kg of residue and dust. The Contractor shall make necessary arrangements with the operator of the disposal facility to test the yellow thermoplastic and yellow paint residue as required by the facility and these special provisions. Testing shall include, at a minimum, (1) Total Lead and Chromium by EPA Method 7000 series and (2) Soluble Lead and Chromium by California Waste Extraction Test. From the first 3360 L of waste or portion thereof, if less than 3360 L of waste are produced; a minimum of four randomly selected samples shall be taken and analyzed. From each additional 840 L of waste or portion thereof, if less than 840 L are produced; a minimum of one additional random sample shall be taken and analyzed. The Contractor shall submit the name and location of the disposal facility and analytical laboratory along with the testing requirements to the Engineer not less than 10 days prior to the start of removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking. The Department of Health Services Environmental Laboratory Accreditation Program shall certify the analytical laboratory. Test results shall be provided to the Engineer for review prior to signing a waste profile as requested by the disposal facility, prior to issuing an EPA identification number and prior to allowing removal of the waste from the site.

The Contractor shall prepare a project specific Lead Compliance Plan to prevent or minimize worker exposure to lead while handling removed yellow thermoplastic and yellow paint residue. Attention is directed to Title 8, California Code of Regulations, Section 1532.1, "Lead," for specific Cal-OSHA requirements when working with lead.

The Lead Compliance Plan shall contain the elements listed in Title 8, California Code of Regulations, Section 1532.1(e)(2)(B). Before submission to the Engineer, an Industrial Hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene shall approve the Lead Compliance Plan. The Plan shall be submitted to the Engineer at least 7 days prior to beginning removal of yellow thermoplastic and yellow paint.

Prior to removing yellow thermoplastic and yellow painted traffic stripe and pavement marking, personnel who have no prior training, including City personnel, shall complete a safety training program provided by the Contractor that meets the requirements of Title 8, California Code of Regulations, Section 1532.1, "Lead," and the Contractor's Lead Compliance Program.

Where grinding or other methods approved by the Engineer are used to remove yellow thermoplastic and yellow painted traffic stripe and pavement marking, the removed residue, including dust, shall be contained and collected immediately. Sweeping equipment shall not be used. Collection shall be by a high efficiency particulate air (HEPA) filter equipped vacuum attachment operated concurrently with the removal operations or other equally effective methods approved by the Engineer. The Contractor shall submit a written work plan for the removal, storage, and disposal of yellow thermoplastic and yellow painted traffic stripe and pavement marking to the Engineer for approval not less than 10 days prior to the start of the removal operations. Removal operations shall not be started until the Engineer has approved the work plan.

The removed yellow thermoplastic and yellow painted traffic stripe and pavement-marking residue shall be stored and labeled in covered containers. Labels shall conform to the provisions of Title 22, California Code of Regulations, Sections 66262.31 and 66262.32. Labels shall be marked with date when the waste is generated, the words "Hazardous Waste", composition and physical state of the waste (for example, asphalt grindings with thermoplastic or paint), the word "Toxic", the name and address of the Engineer, the Engineer's telephone number, contract number, and Contractor or subcontractor. The containers shall be a type approved by the United States Department of Transportation for the transportation and temporary storage of the removed residue. The containers shall be handled so that no spillage will occur. The containers shall be stored in a secured enclosure at a location within the project limits until disposal, as approved by the Engineer.

If the yellow thermoplastic and yellow painted traffic stripe and pavement marking residue is transported to a Class 1 disposal facility, a manifest shall be used, and the transporter shall be registered with the California Department of Toxic Substance Control. The Engineer will obtain the United States Environmental Protection Agency Identification Number and sign all manifests as the generator within 2 working days of receiving sample test results and approving the test methods.

The Contractor shall assume that the yellow paint removed is not regulated under the Federal Resource Conservation and Recovery Act (RCRA). Additional disposal costs for removal residue regulated under RCRA, as determined by test results required by the disposal facility, will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the State Standard Specifications.

Nothing in these special provisions shall relieve the Contractor of the Contractor's responsibilities as specified in Section 7-1.09, "Public Safety," of the State Standard Specifications.

Measurement

Measurement for "Thermoplastic Traffic Stripes and Pavement Markings" shall be lump sum for work specified.

Payment

The lump sum price paid for this item shall include furnishing all labor, materials and equipment for removing existing pavement markers and thermoplastic striping, placing new thermoplastic roadway stripes and pavement markings, as specified and in similar roadway marking layout prior to the street being paved, and all other miscellaneous incidental work involved.

Full compensation for all the work involved in preparing the Lead Compliance Plan, including paying the Certified Industrial Hygienist, and for providing personnel protective equipment, training, air monitoring, and medical surveillance, as specified in the State Standard Specifications and these special provisions, and as directed by the Engineer shall be considered as included in this bid item and no additional compensation will be allowed therefore.



MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN McCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

January 13, 2014

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Land Use and Community Impacts
Francisco Boulevard East Improvements, Phase II Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

The purpose of this technical memo is to assess the land use impacts of the proposed project and to discuss community input for the Francisco Boulevard East Improvements Project.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

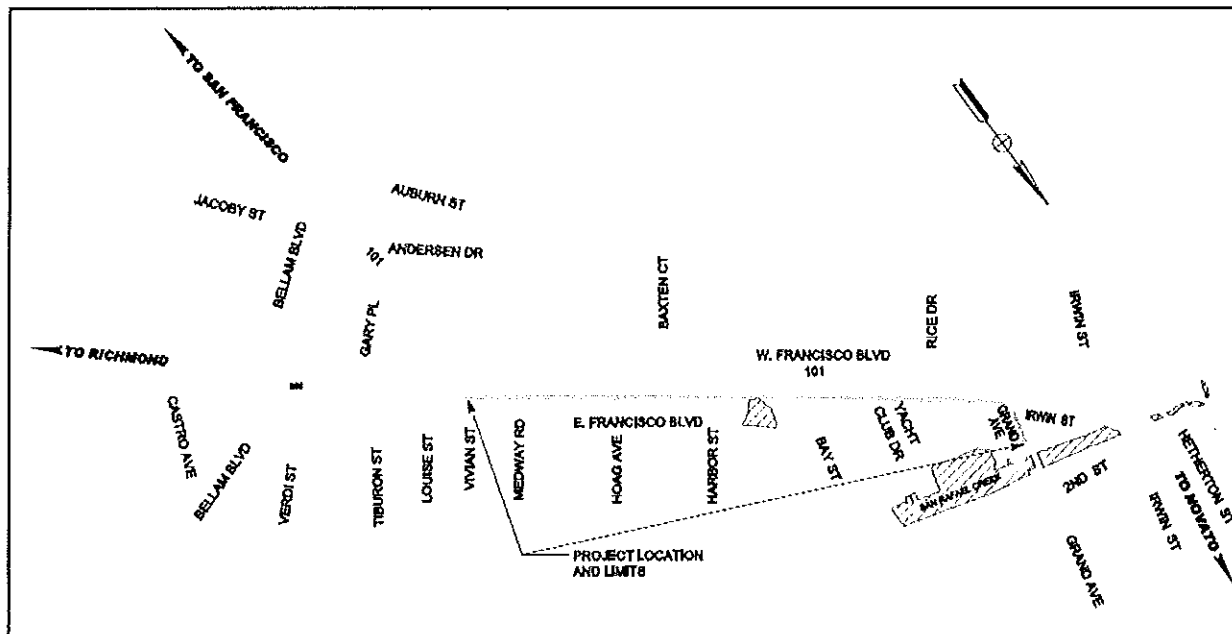


Figure 1: Francisco Boulevard East Improvements Project Location

Existing Traffic Conditions

Francisco Boulevard East is a critical arterial street that connects Grand Avenue to the north and provides access to downtown San Rafael for residences south of San Rafael Creek and east of the Highway 101 and Route 580 freeways. The roadway is striped for two lanes with a two-way left turn lane in some portions of the corridor. On-street parking is permitted along the eastern side of the street. Motorists use Francisco Boulevard East to travel north/south through the City to access businesses and bypass congestion at the Highway 101/Route 580 interchange. In addition, many pedestrians and bicyclists use Francisco Boulevard East to traverse the freeway to access key destinations throughout the City.

The land use along this roadway is primarily commercial with some residential uses in the surrounding area. The Average Daily Traffic (ADT) is 7,000 vehicles in the northbound direction and 8,050 vehicles in the southbound direction. The posted speed limit is 25 miles per hour.

Temporary Construction Easements

Temporary construction easements will be required along the northeast side of Francisco Boulevard East. Along this corridor, the sidewalk widening will require reconstruction of twenty five commercial driveways. During construction, pedestrian, bicycle, emergency and vehicular access along this corridor will be maintained at all times. For a description of proposed traffic control for vehicles and bicycles, refer to the Traffic Handling Technical Memorandum.

Driveway Accessibility

The Special Provisions of the Project Specifications will require the contractor to maintain access to all businesses, including private entrances and driveways. Driveways will be reconstructed in accordance with Marin County Uniform Construction Standards. The contractor will be required to maintain private

entrances and sidewalk areas, and construct detours as necessary to properly conduct the work and to provide entrances to private and commercial properties at all times.

On-Street Parking

On-street parking spaces on roadway segments under construction will be unavailable for the duration of work. It is anticipated that construction activity will be staged so as to minimize the number of on-street parking spaces removed at one time. Business owners and residents will be notified about parking removals at least 48 hours in advance. Access for emergency vehicles shall be provided at all times. The following table outlines the number of on-street parking spaces to be temporarily removed during construction:

Roadway Segment	No. of Existing On-Street Parking Spaces	Estimated No. of Proposed On-Street Parking Spaces	Anticipated No. of Months Parking Spaces Temporarily Removed
Francisco Boulevard East from Vivian Street to Grand Avenue	44	44	6

All on-street parking spaces will be replaced as part of the proposed reconstruction. Additionally, in locations where on-street parking will be temporarily removed during construction, 12 of the 25 businesses fronting Francisco Boulevard East (primarily car dealerships) have large private off-street parking lots available. The other businesses are within 100' from a side street where on-street parking will be available.

For on-site parking, one property/business will be affected by the proposed project. Superior Cabinet and Tile, located at 821 Francisco Boulevard East, currently has seven perpendicular parking spaces, including one ADA space, in front of its building. A portion of these spaces is within City right of way and following construction of the proposed improvements the parking spaces will not comply with the City's Municipal Code. Furthermore, as this project is to enhance safety for pedestrians and bicyclists on the new sidewalk, reducing the number of conflict points between pedestrians and vehicles entering the current parking lot is paramount. Consequently, removal of all seven parking spaces in front of the business is required. However, three new on-street parking spaces will be created directly in front of the business to minimize impact to the property. It should be noted that the property also has a second, larger parking lot behind the business to accommodate patrons. This second parking lot has 26 spaces, including two ADA spaces. On-street parking along Vivian Street to the south of the business is also available for public use.

With the exception of the property owner at 821 Francisco Boulevard East, Superior Cabinet and Tile, no other concerns have been received by the City regarding impacts to businesses along the project corridor.

Community Input

A community outreach meeting was held by the City of San Rafael on July 21, 2008, to discuss the proposed project. The City held other meetings with the following organizations:

<u>Date</u>	<u>Organization</u>
9/10/08	San Rafael ADA Committee
9/11/08	Canal Front Advisory Team
10/6/08	Study Session with City Council
10/16/08	Parks and Recreation Commission
10/17/08	Concilio
1/7/09	Pickleweed Advisory Board
1/8/09	Redevelopment Citizen Advisory Committee

The project was included in the January 26, 2009 public meeting held for all Non-motorized Transportation Pilot Program (NTPP) projects in the City, where the City invited all stakeholders and mailed out letters to occupants/businesses that may be affected within a 500 foot radius from the center line of Francisco Boulevard East within the entire project area.

The project was also included on the February 17, 2009 City Council meeting agenda. The following summarizes additional public outreach that was conducted for the project:

- June 26, 2009 - letters were mailed to each of the property owners and tenants informing them of the improvements that are being designed immediately adjacent to their property.
- September 18, 2009 - letters were mailed to each of the property owners and tenants informing them of the preferred alternative improvements and inviting them to a public meeting.
- October 5, 2009 - a public meeting was held at City Hall with the property owners and tenants to discuss the proposed sidewalk location and how it would affect their property. Of all the property owners and occupants invited to the meeting, two property owners attended (Steven Leonardi, owner of APNs 014-204-01 and 014-204-02 (Precor Home Fitness); Jeri Di Pietro, owner of APN 008-091-21, Superior Cabinet and Tile).
- October 13, 2009 – a meeting was held at the Department of Public Works with various bicycle and pedestrian advocates, including the City of San Rafael Bicycle and Pedestrian Advisory Committee and Marin County Bicycle Coalition, to discuss the preferred alternative.
- October 14, 2009 - letters were again mailed to each of the property owners and tenants informing them that the project will be on the City Council calendar for October 19, 2009.
- Between July 2010 and March 2011, the City and property owner of 821 Francisco Boulevard East, Superior Cabinet and Tile, have corresponded multiple times in an attempt to resolve the concerns regarding impacts to on-site parking.

NTPP Website

In September 2008, the City created an NTPP website to advertise, update, and inform residents of San Rafael about the various NTPP projects in the City, including the improvements along Francisco Boulevard East. The website contains agendas and minutes for the past meetings, upcoming meeting announcements in the form of flyers, and press release letters in both English and Spanish.

Please call me at (415) 485-3408 if you need more information.

Sincerely,



Hunter Young
Assistant Civil Engineer



CITY OF
San Rafael

MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

December 12, 2013

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Location Hydraulic Study and Summary Floodplain Encroachment Report
Francisco Boulevard East Improvements, Phase II; Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

This memorandum discusses the impact of the project on the FEMA 100-year and 500-year floodplain.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

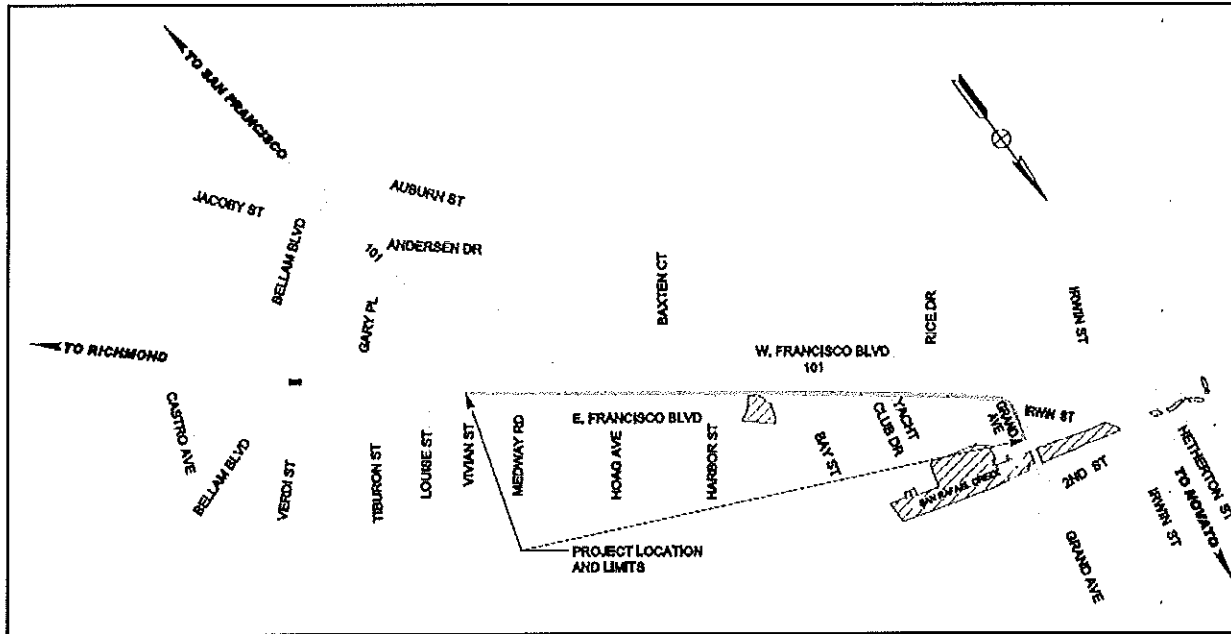


Figure 1: Francisco Boulevard East Improvements Project Location

Existing Conditions

Climate

The climate of the City of San Rafael is characterized by warm, dry summers and mild, wet winters. Precipitation is concentrated during October through April, when 95% of the seasonal precipitation normally occurs.

Types of Flooding

The City of San Rafael is subject to both freshwater and tidal flooding. Coastal, tidal flooding in the region is typically associated with the simultaneous occurrence of very high tides, large waves, and storm swells during the winter. One of the two major tidal flooding areas is located along the lower portion of San Rafael Creek. The main causes of freshwater flooding are the local watercourses overtopping their banks during extreme rainfall, coupled with the inability of the topography and drainage system of the City to handle torrential rainfall events.

Flood Conditions

In the proposed project vicinity, the 100-year and 500-year flood water surface elevations are entirely influenced by tidal flooding. San Rafael Creek is located just to the north of the project site flowing southeast into San Rafael Bay. A marina off the San Rafael Creek stretches north-south from the creek to Francisco Boulevard East, between Bay Street and Harbor Street within the proposed project corridor. No flood water surface profile was developed for San Rafael Creek downstream of Grand Avenue as all elevations are controlled by San Rafael Bay tidal forces.

Water Quality Protection Measures

Best Management Practices

The following Best Management Practices (BMPs) will be incorporated into the Special Provisions for the project to ensure that the project construction activities will not adversely affect the water quality and/or natural habitat within the adjacent marine and coastal areas. The BMPs will be implemented on the site by the Contractor to ensure that sediment and other pollutants are contained on the project site and do not enter storm drains adjacent to the project location.

1. All work shall be completed during the dry season (between June 15 and October 15) and when rainfall is not predicted for the region, in order to prevent erosion and water quality impacts. Paving work shall not take place when raining.
2. BMPs to prevent construction materials or debris from entering waterways and storm drains (i.e. filter fabric, straw wattles, and/or silt fencing) will be installed prior to the initiation of work and will be properly maintained. Additionally, silt fence barriers shall be installed along marshes and creeks that are immediately adjacent to the roadway, as directed by a qualified professional, in order to prevent water quality impacts. At the end of project construction, all materials trapped by the barriers and excess materials such as dirt, rock, pavement pieces, or debris shall be collected using dry sweep.
3. A litter control program shall be instituted at the Project site. All workers will ensure that food scraps, paper wrappers, food containers, cans, bottles, and other trash from the project area are deposited in covered or closed trash containers. The trash containers shall be removed from the area at appropriate intervals.
4. Measures shall be designated to control or prevent pollution of surface runoff from accidental spills from on-site vehicle/equipment storage, fueling and maintenance. These measures shall include preventing any contaminated water from entering the storm drain system, waters of the State or adjacent sensitive areas.
5. All leaks, drips and spills shall be immediately cleaned up to prevent entry into drainages and water bodies. All workers shall be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.
6. All stockpiles of construction debris, construction material and/or excavated material shall be managed to prevent water quality impacts to storm water or surrounding natural marine habitats. Refer to Section WM-3, Stockpile Management, of the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual.
7. All trash and debris, including asphalt grinding materials, will be disposed of at an appropriate facility.

Additionally, all construction activities and implemented BMPs shall be in accordance with Section 4, Temporary Sediment Control Best Management Practices, in the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual Storm Water Pollution Prevention.

For the proposed project, the estimated area of disturbed soil is less than 1 acre and therefore, a Storm Water Pollution Prevention Plan (SWPPP) does not need to be submitted to the County. However, measures for storm water pollution prevention will be incorporated into the contract specifications for the project to ensure quality of storm water is not affected by construction activities.

Measures shall be designated to control or prevent pollution of surface runoff from erosion, mud and sediment, material stockpiles and on-site vehicle/equipment storage and maintenance. These measures shall include preventing any contaminated water, such as saw-cut wash water, from entering the storm drain system or adjacent sensitive areas. The storm water pollution prevention measures shall also include provisions for maintenance and repair of control measures, personnel training, waste disposal, and if necessary, on-site sanitary facilities.

Upon learning of approaching inclement weather, the designated responsible party shall initiate the appropriate pollution prevention measures and regularly visit, inspect, and as necessary, maintain the enacted pollution control measures.

Results and Conclusions

As shown in Figure 2, the proposed project footprint consists of a marginal percentage of the total floodplain area for both the 100-year and 500-year flood events. Table 1 below provides a comparison of surface area between the proposed project, the 100-year flood event and the 500-year flood event.

Table 1: Francisco Boulevard East Proposed Improvements Area Comparison to FEMA Floodplain Areas

Area Description	Area (sq. miles)	Proposed Project Footprint Relative to Floodplain Area (%)
Francisco Boulevard East Improvements, Phase II	0.001	-
100-year (1% annual chance) floodplain	1.941	0.07%
500-year (0.2% annual chance) floodplain	3.561	0.04%

In conclusion, the proposed Francisco Boulevard East Improvements as described in this memo would not result in any significant impact to flood water surface elevation, the 100-year, and the 500-year floodplain. Please call me at (415) 485-3408 if you need more information.

Sincerely,

Hunter Young
Assistant Civil Engineer

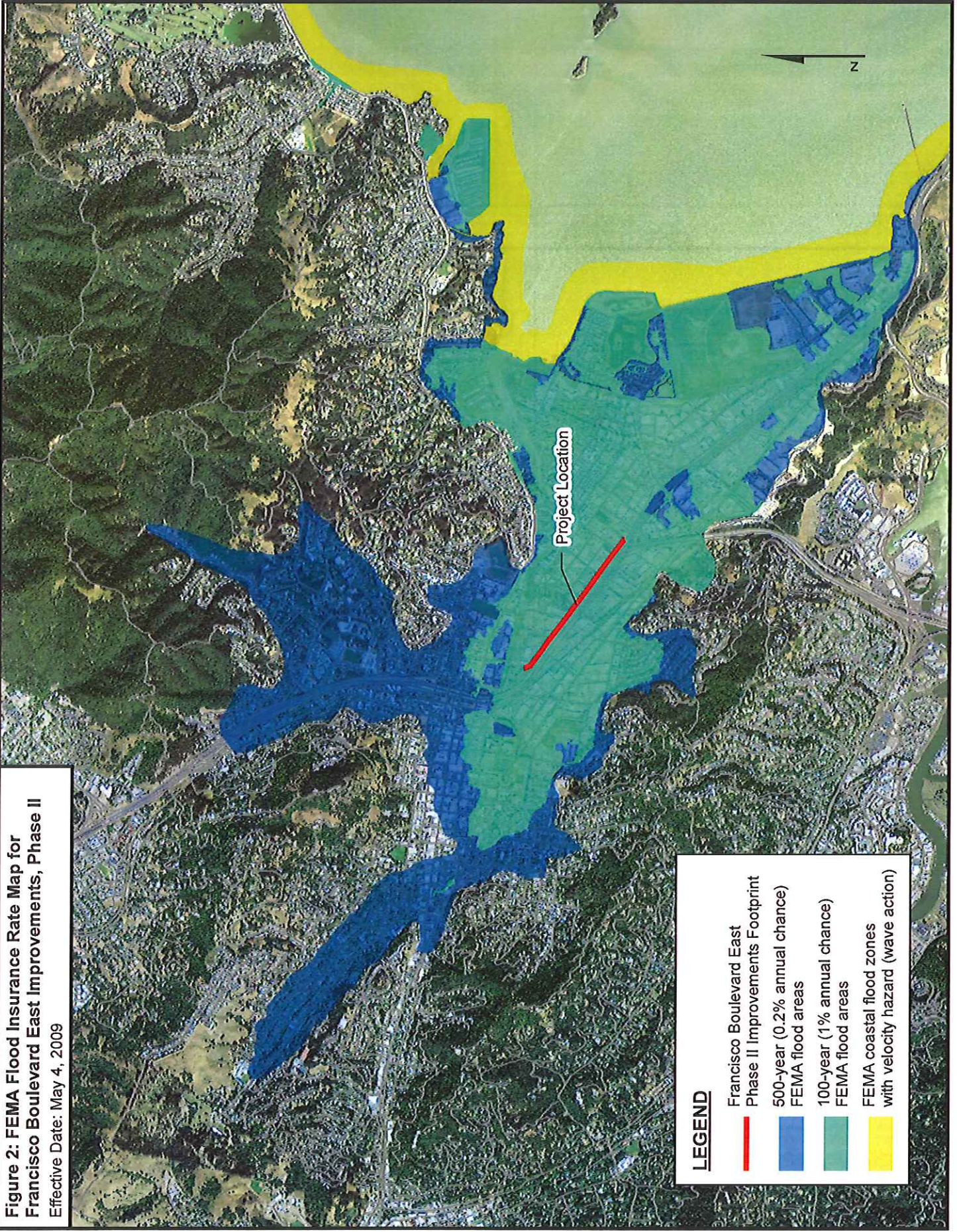
References

Flood Insurance Study: Marin County, California and Incorporated Areas. Federal Emergency Management Agency. FIS No. 06041CV001B. November 13, 2012.

Flood Insurance Rate Map. Marin County, California and Incorporated Areas. Federal Emergency Management Agency. Effective Date: May 4, 2009.

Storm Water Quality Handbooks, Construction Site Best Management Practices Manual, Temporary Sediment Control Best Management Practices. Caltrans. March 1, 2003.

Figure 2: FEMA Flood Insurance Rate Map for Francisco Boulevard East Improvements, Phase II
Effective Date: May 4, 2009



LEGEND

- Francisco Boulevard East Phase II Improvements Footprint
- 500-year (0.2% annual chance) FEMA flood areas
- 100-year (1% annual chance) FEMA flood areas
- FEMA coastal flood zones with velocity hazard (wave action)

LOCATION HYDRAULIC STUDY FORM

Dist. 4 Co. Marin Rte. N/A P.M. N/A EA: N/A
 Federal-Aid Project Number: NMTPL 5043 (027)

Floodplain Description:
The floodplain covers the entire general region due to coastal flooding.

1. Description of Proposal *(include any physical barriers i.e. concrete barriers, soundwalls, etc. and design elements to minimize floodplain impacts)*
The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorist alike along a critical arterial street in the community.

2. ADT: Current 15,050 Projected N/A

3. Hydraulic Data: Base Flood Q100= 1,995 cfs *from Marin County FIS, San Rafael Creek at Grand Ave.*
 WSE100= 9.7
The flood of record, if greater than Q100:
 Q= N/A cfs WSE= N/A
 Overtopping flood Q= N/A cfs WSE= N/A

Are NFIP maps and studies available? NO _____ YES X

4. Is the highway location alternative within a regulatory floodway?
 NO _____ YES X

5. Attach map with flood limits outlined showing all buildings or other improvements within the base floodplain.

Potential Q100 backwater damages:

A. Residences?	NO <u>X</u>	YES _____
B. Other Bldgs?	NO <u>X</u>	YES _____
C. Crops?	NO <u>X</u>	YES _____
D. Natural and beneficial Floodplain values?	NO <u>X</u>	YES _____

"Natural and beneficial flood-plain values" shall include but are not limited to fish, wildlife, plants, open space, natural beauty, scientific study, outdoor recreation, agriculture, aquaculture, forestry, natural moderation of floods, water quality maintenance, and groundwater recharge.

6. Type of Traffic:

A. Emergency supply or evacuation route?	NO <u>X</u>	YES _____
B. Emergency vehicle access?	NO <u>X</u>	YES _____
C. Practicable detour available?	NO <u>X</u>	YES _____
D. School bus or mail route?	NO <u>X</u>	YES _____

7. Estimated duration of traffic interruption for 100-year event hours: N/A

8. Estimated value of Q100 flood damages (if any) – moderate risk level.

A. Roadway	\$	<u>0</u>
B. Property	\$	<u>0</u>
Total	\$	<u>0</u>

9. Assessment of Level of Risk
 Low X
 Moderate _____
 High _____

For High Risk projects, during design phase, additional Design Study Risk Analysis may be necessary to determine design alternative.

LOCATION HYDRAULIC STUDY FORM cont.

Dist. 4 Co. Marin Rte. N/A K.P. N/A EA: N/A
Federal-Aid Project Number: NMTPL 5043 (027) Bridge No. N/A

PREPARED BY:

Signature:

I certify that I have conducted a Location Hydraulic Study consistent with 23 CFR 650 and that the information summarized in items numbers 3, 4, 5, 8, and 9 of this form is accurate.

District Hydraulic Engineer (capital and 'on' system projects) Date _____

Shirley Yeung _____ Date 12/12/13
Local Agency/Consulting Hydraulic Engineer (local assistance projects)

Is there any longitudinal encroachment, significant encroachment, or any support of incompatible Floodplain development? NO X YES _____

If yes, provide evaluation and discussion of practicability of alternatives in accordance with 23 CFR 650.113

Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.

I certify that item numbers 1, 2, 6 and 7 of this Location Hydraulic Study Form are accurate and will ensure that Final PS&E reflects the information and recommendations of said report:

District Project Engineer (capital and 'on' system projects) Date _____

Shirley Yeung _____ Date 12/12/13
Local Agency Project Engineer (local assistance projects)

CONCURRED BY:

I have reviewed the quality and adequacy of the floodplain submittal consistent with the attached checklist, and concur that the submittal is adequate to meet the mandates of 23 CFR 650.

District Project Manager (capital and 'on' system projects) Date _____

Shirley Yeung _____ Date 12/12/13
Local Agency Project Manager (Local Assistance projects)

District Local Assistance Engineer (or District Hydraulic Branch for very complex projects or when required expertise is unavailable. Note: District Hydraulic Branch review of local assistance projects shall be based on reasonableness and concurrence with the information provided).

I concur that the natural and beneficial floodplain values are consistent with the results of other studies prepared pursuant to 23 CFR 771, and that the NEPA document or determination includes environmental mitigation consistent with the Floodplain analysis.

District Senior Environmental Planner (or Designee) Date _____

Note: If a significant floodplain encroachment is identified as a result of floodplains studies, FHWA will need to approve the encroachment and concur in the Only Practicable Alternative Finding.

SUMMARY FLOODPLAIN ENCROACHMENT REPORT

Dist. 4 Co. Marin Rte. N/A P.M. N/A

Federal-Aid Project Number (Local Assistance) NMTPL 5043 (027)

Project No.: N/A Bridge No. N/A

Limits: The project location encompasses approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue in the City of San Rafael

Floodplain Description: The floodplain covers the entire general region due to coastal flooding.

- | | No | Yes |
|---|----------|----------|
| 1. Is the proposed action a longitudinal encroachment of the base floodplain? | <u>X</u> | ___ |
| 2. Are the risks associated with the implementation of the proposed action significant? | <u>X</u> | ___ |
| 3. Will the proposed action support probable incompatible floodplain development? | <u>X</u> | ___ |
| 4. Are there any significant impacts on natural and beneficial floodplain values? | <u>X</u> | ___ |
| 5. Routine construction procedures are required to minimize impacts on the floodplain. Are there any special mitigation measures necessary to minimize impacts or restore and preserve natural and beneficial floodplain values? If yes, explain. | <u>X</u> | ___ |
| 6. Does the proposed action constitute a significant floodplain encroachment as defined in 23 CFR, Section 650.105(q). | <u>X</u> | ___ |
| 7. Are Location Hydraulic Studies that document the above answers on file? If not explain. | ___ | <u>X</u> |

PREPARED BY:

_____ Date _____
District Project Engineer (capital and 'on' system projects)

Keith Young Date 12/12/13
Local Agency Project Engineer (local assistance projects)

CONCURRED BY:

_____ Date _____
District Project Manager (capital and 'on' system projects)

_____ Date _____
District Local Assistance Engineer (Local Assistance projects)

I concur that impacts to natural and beneficial floodplain values are consistent with the results of other studies prepared pursuant to 23 CFR 771, and that the NEPA document or determination includes environmental mitigation consistent with the Floodplain analysis.

_____ Date _____
District Senior Environmental Planner (or Designee)

Note: If a significant floodplain encroachment is identified as a result of floodplains studies, FHWA will need to approve the encroachment and concur in the Only Practicable Alternative Finding.



MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

December 12, 2013

File No.:16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Relocation Impacts
Francisco Boulevard East Improvements, Phase II; Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

This letter summarizes the steps to be taken to allow the proposed construction work to proceed while minimizing the impact to, and maximizing the safety of, the vehicles, pedestrians and bicyclists traversing the project limits for the Francisco Boulevard East Improvements Project.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

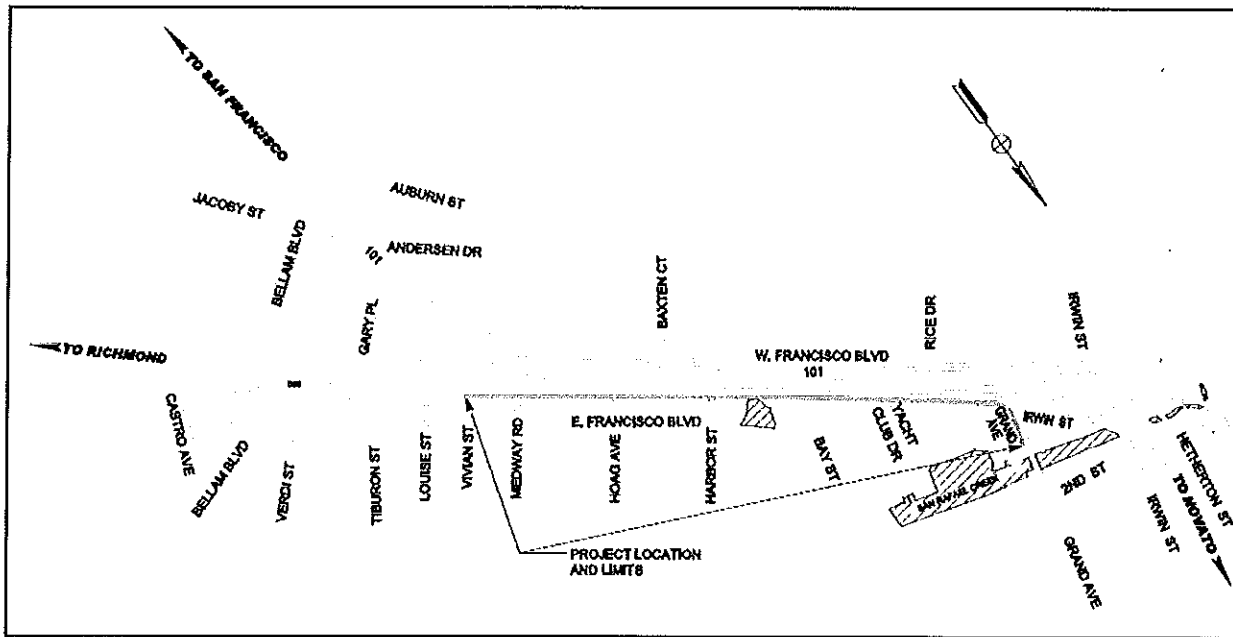


Figure 1: Francisco Boulevard East Improvements Project Location

Permanent Right of Way Acquisition

The project will not require any permanent right of way acquisitions, as all improvements will be in the City of San Rafael or Caltrans right of way. All temporary right of way access for reconstruction of driveways will be acquired through temporary construction easements. A Caltrans encroachment permit will be required prior to construction.

Right of Way Access

During construction, roadways will not be closed to traffic, and emergency vehicle access will be retained at all times. No construction equipment will be allowed to park within any traffic lanes after work hours. Road construction warnings and appropriate advisory signs will be provided and maintained in the project vicinity. "No Parking" and "Tow Away" signs will be posted at a minimum of two days in advance of project construction.

The Special Provisions of the Project Specifications will require the contractor to provide:

- Advisory signs, including changeable message signs (CMS), at the limits of the work to notify drivers and bicyclists of the upcoming project, potential delays, and lane closures. CMS boards will be deployed a minimum of five (5) working days prior to commencement of work.
- "No Parking" barricades and signs forty-eight (48) hours prior to any work requiring such traffic control.
- Notification to property owners five (5) days in advance, and again forty-eight (48) hours in advance, to any disruption to a driveway.

The Special Provisions of the Project Specification will require that the contractor's work hours be restricted to the hours between 7:00 AM to 5:00 PM on weekdays.

Temporary Construction Easements

Temporary construction easements will be required for all private and business driveways along the 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue along the northeast side of the road. Along this corridor, at least 25 commercial driveways will be affected. A temporary construction easement will also be required for the proposed equipment staging area. During construction, pedestrian, bicycle, emergency and vehicular access along this corridor will be maintained at all times. For a description of proposed traffic control for vehicles and bicycles, refer to the Traffic Handling Technical Memorandum.

Public Accessibility

The Special Provisions of the Project Specifications will require the contractor to provide safe paths of pedestrian travel in compliance with applicable Americans with Disabilities Act Accessibility Guidelines (ADAAG), Americans with Disabilities Act (ADA) regulations and the California Manual on Uniform Traffic Control Devices (CAMUTCD). The contractor is responsible to provide a minimum four (4) foot wide accessible corridor that provides at least one safe path of travel for the public at all times for the duration of the project and if a safe path of travel is not available, the Contractor shall post the sidewalk as being closed.

The Special Provisions of the Project Specifications will require the contractor to maintain access to all businesses, including private entrances and driveways. Driveways will be reconstructed in accordance with Marin County Uniform Construction Standards. The contractor will be required to maintain private entrances and sidewalk areas, and construct detours as necessary to properly conduct the work and to provide entrances to private properties at all times.

Equipment Staging Area

The Special Provisions of the Project Specifications will require the contractor to locate a construction staging area. These provisions will include, at the minimum, the following requirements for locating the staging area:

- The staging area will be located on an existing asphalt or concrete surface area. No staging area will be allowed on undeveloped lots.
- The staging area will be included in the Contractor's SWPPP.
- The staging area will not be located in an environmentally or culturally sensitive area and/or impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs).
- The staging area will not be located in a regulatory floodway or within the base floodplain (100-year).
- The staging area will not affect access to properties or roadways.

Please call me at (415) 485-3408 if you need more information.

Sincerely,



Hunter Young
Assistant Civil Engineer



CITY OF
San Rafael

MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

January 13, 2014

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Traffic (Handling)
Francisco Boulevard East Improvements, Phase II Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

This letter summarizes the steps to be taken to allow the proposed construction work to proceed while minimizing the impact to, and maximizing the safety of, the vehicles, pedestrians and bicyclists traversing the project limits for the Francisco Boulevard East Improvements Project.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

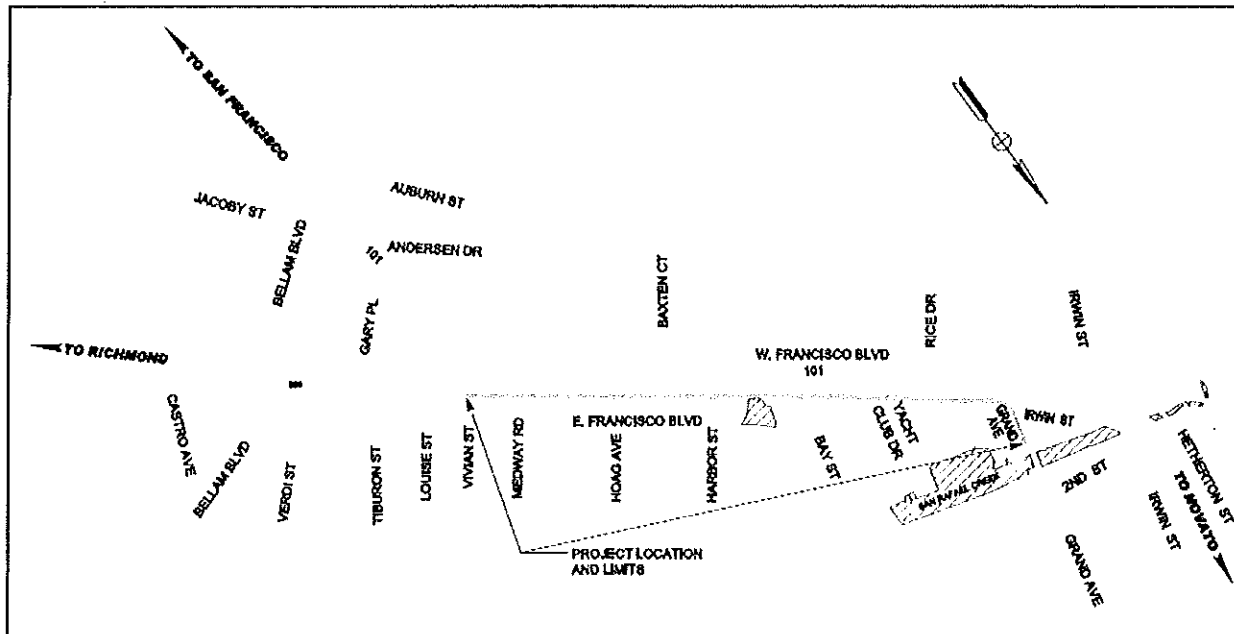


Figure 1: Francisco Boulevard East Improvements Project Location

Existing Traffic Conditions

Francisco Boulevard East is a critical arterial street that connects Grand Avenue to the north and provides access to downtown San Rafael for residences south of San Rafael Creek and east of the Highway 101 and Route 580 freeways. The roadway is striped for two lanes with a two-way left turn lane in some portions of the corridor. On-street parking is permitted along the eastern side of the street. Motorists use Francisco Boulevard East to travel north/south through the City to access businesses and bypass congestion at the Highway 101/Route 580 interchange. In addition, many pedestrians and bicyclists use Francisco Boulevard East to traverse the freeway to access key destinations throughout the City.

The land use along this roadway is primarily commercial with some residential uses in the surrounding area. The Average Daily Traffic (ADT) is 7,000 vehicles in the northbound direction and 8,050 vehicles in the southbound direction. The posted speed limit is 25 miles per hour.

Four Marin Transit bus routes run along Francisco Boulevard East. No existing bike signage or striping exists on Francisco Boulevard East. The “Marin Bicycle Map for Road, Mountain, and Transit Biking” published by Marin County Bicycle Coalition designates this route as an on-street busy or narrow route bikeway.

Public Notification

The Special Provisions of the Project Specifications will require the construction contractor to provide:

- Advisory signs, including changeable message signs (CMS), at the limits of the work to notify drivers and bicyclists of the upcoming project, potential delays, and lane closures. CMS boards will be deployed a minimum of five (5) working days prior to commencement of work.

- “No Parking” barricades and signs forty-eight (48) hours prior to any work requiring such traffic control.
- Notification to property owners five (5) days in advance, and again forty-eight (48) hours in advance, to any disruption to a driveway.

Hours of Work and Sequence

Construction activity will occur during the day between the hours of 7:00 a.m. and 5:00 p.m. on weekdays with lane closures only permitted between 9:00 a.m. and 3:00 p.m. The City shall specify the allowable work hours for the roadway segments in the Special Provisions section of the contract. No road work, installation of temporary traffic control devices, encroachment or closures of travel lanes shall occur beyond the specified work hours listed without prior written permission from the City.

Construction activity will be staged, one half of the roadway at a time (please see ‘Vehicles Traffic Control’ section below). The temporary traffic control plan shall meet the current California Manual on Uniform Traffic Control Devices (CA MUTCD) standards. Access to all commercial driveways shall be maintained during normal business operating hours.

Vehicle Traffic Control

The Special Provisions of the Project Specifications will require a traffic control system that consists of closing traffic lanes, sidewalks, and paths in accordance with the provisions of Section 12, “Temporary Traffic Control” of the Standard Specifications, the provisions under “Traffic Control System for Lane Closure on Two Lane Conventional Highways,” Plan T13 of the Standard Plans, and the CA MUTCD.

The Special Provisions of the Project Specifications will require the contractor to provide a minimum of one (1) unobstructed traffic lane, not less than twelve feet (12’) wide with flaggers to accommodate bicycle and vehicular traffic, including emergency personnel, transit, and post office vehicles.

The General Provisions of the Project Specifications state that the City Engineer may require that detours be set up when streets are closed or partially closed. All detour routes and their signing shall be approved by the City Engineer before they are set up, and shall comply with the CA MUTCD.

Since Francisco Boulevard East serves four Marin Transit bus routes, the Special Provisions of the Project Specifications will require the contractor to verify the bus routes and notify the City of San Rafael at least five (5) working days in advance of any proposed work which will impact Marin Transit bus operations. A City of San Rafael representative will work accordingly in notifying Marin Transit of planned lane closures or impacts to Marin Transit bus operations. The lane(s) made available by the contractor for traffic shall be located so as to include an adequate and allowable travel path for Marin Transit buses.

Bicycle Traffic Control

During periods when construction will narrow the existing roadway width, bicyclists will be directed to share the vehicle lane adjacent to the work area. The Special Provisions shall require the contractor to provide adequate signage, such as “share the road”, “bicycle lane closed ahead” and “uneven pavement surface” signs, and flagging, as well as providing asphalt concrete ramps at project conforms that have been planned in order to direct bicyclists around the work zone.

Public Accessibility

The Special Provisions of the Project Specifications will require the contractor to provide safe paths of travel in compliance with applicable Americans with Disabilities Act Accessibility Guidelines (ADAAG), Americans with Disabilities Act (ADA) regulations and the CA MUTCD. The contractor is responsible to provide a minimum four (4) foot wide accessible corridor that provides at least one safe path of travel for the public at all times for the duration of the project and if a safe path of travel is not available, the Contractor shall post the sidewalk as being closed.

The Special Provisions of the Project Specifications will require the contractor to maintain access to all businesses, including private entrances and driveways. The contractor will be required to maintain private entrances and sidewalk areas, and construct detours as necessary to properly conduct the work and to provide entrances to private properties at all times.

On-Street Parking

On-street parking spaces on roadway segments under construction will be unavailable for the duration of work. It is anticipated that construction activity will be staged so as to minimize the number of on-street parking spaces removed at one time. Business owners and residents will be notified about parking removals at least 48 hours in advance. Access for emergency vehicles shall be provided at all times. The following table outlines the number of on-street parking spaces to be temporarily removed during construction:

Roadway Segment	No. of Existing On-Street Parking Spaces	Estimated No. of Proposed On-Street Parking Spaces	Anticipated No. of Months Parking Spaces Temporarily Removed
Francisco Boulevard East from Vivian Street to Grand Avenue	44	44	6

All on-street parking spaces will be replaced as part of the proposed reconstruction. Additionally, in locations where on-street parking will be temporarily removed during construction, 12 of the 25 businesses fronting Francisco Boulevard East (primarily car dealerships) have large private off-street parking lots available. The other businesses are within 100' from a side street where on-street parking will be available.

For on-site parking, one property/business will be affected by the proposed project. Superior Cabinet and Tile, located at 821 Francisco Boulevard East, currently has seven perpendicular parking spaces, including one ADA space, in front of its building. A portion of these spaces is within City right of way and following construction of the proposed improvements the parking spaces will not comply with the City's Municipal Code. Furthermore, as this project is to enhance safety for pedestrians and bicyclists on the new sidewalk, reducing the number of conflict points between pedestrians and vehicles entering the current parking lot is paramount. Consequently, removal of all seven parking spaces in front of the business is required. However, three new on-street parking spaces will be created directly in front of the business to minimize impact to the property. It should be noted that the property also has a second, larger parking lot behind the business to accommodate patrons. This second parking lot has 26 spaces,

including two ADA spaces. On-street parking along Vivian Street to the south of the business is also available for public use.

Please call me at (415) 485-3408 if you need more information.

Sincerely,



Hunter Young
Assistant Civil Engineer



MAYOR GARY O. PHILLIPS
VICE MAYOR BARBARA HELLER
COUNCILMEMBER DAMON CONNOLLY
COUNCILMEMBER KATE COLIN
COUNCILMEMBER ANDREW CUYUGAN MCCULLOUGH

PUBLIC WORKS DEPARTMENT: (415)485-3355 FAX: (415)485-3334
Nader Mansourian, Director of Public Works

December 12, 2013

File No.: 16.01.241.01

California Department of Transportation
Office of Local Assistance District 4
111 Grand Avenue
Oakland, CA 94903
Att: Hugo Ahumada

**Re: Technical Memo: Water Quality
Francisco Boulevard East Improvements, Phase II; Federal Project No. NMTPL 5043(027)**

Dear Mr. Ahumada:

The City of San Rafael plans to implement bicycle and pedestrian-related improvements to a section of Francisco Boulevard East from Vivian Street to Grand Avenue for Phase II. The City of San Rafael's proposed Francisco Boulevard East Improvements will involve the construction of new sidewalk, curb, gutter, ADA-compliant curb ramps, high visibility signing, striping, and landscaping. The existing storm drain system will be modified and street lights and retaining walls installed. The completed project will provide improved commuter conditions for pedestrians and motorists alike along a critical arterial street in the community.

This letter summarizes the steps to be taken to allow the proposed construction work to proceed while minimizing the impact to water resources within the project limits for the Francisco Boulevard East Improvements Project.

Location and Setting

The project location spans approximately 0.75 miles on Francisco Boulevard East from Vivian Street to Grand Avenue. Improvements will occur within an approximate 9.5 foot corridor along the northeast side of the road. Figure 1 below displays the extents of the project location.

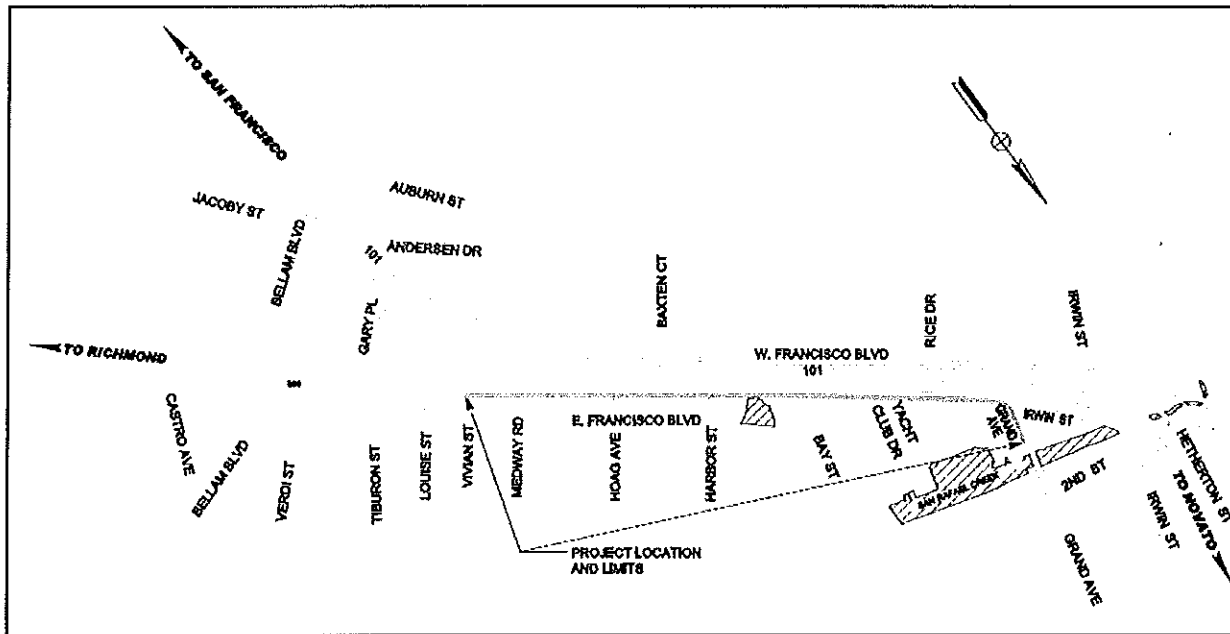


Figure 1: Francisco Boulevard East Improvements Project Location

Best Management Practices

The following BMPs are recommended to be incorporated into the Special Provisions for the project to ensure that the project construction activities will not adversely affect biological resources, including water quality and natural habitat within the adjacent waterways. The BMPs should be implemented on the site by the Contractor to ensure that sediment and other pollutants are contained on the project site and do not enter storm drains adjacent to the project location.

1. All work shall be completed during the dry season (between June 15 and October 15) and when rainfall is not predicted for the region, in order to prevent erosion and water quality impacts. Paving work shall not take place when raining.
2. BMPs to prevent construction materials or debris from entering waterways and storm drains (i.e. filter fabric, straw wattles, and/or silt fencing) will be installed prior to the initiation of work and will be properly maintained. Additionally, silt fence barriers shall be installed along marshes and creeks that are immediately adjacent to the roadway, as directed by a qualified professional, in order to prevent water quality impacts. At the end of project construction, all materials trapped by the barriers and excess materials such as dirt, rock, pavement pieces, or debris shall be collected using dry sweep.
3. A litter control program shall be instituted at the Project site. All workers will ensure that food scraps, paper wrappers, food containers, cans, bottles, and other trash from the project area are deposited in covered or closed trash containers. The trash containers shall be removed from the area at appropriate intervals.
4. Measures shall be designated to control or prevent pollution of surface runoff from accidental spills from on-site vehicle/equipment storage, fueling and maintenance. These measures shall include preventing any contaminated water from entering the storm drain system, waters of the State or adjacent sensitive areas.

5. All leaks, drips and spills shall be immediately cleaned up to prevent entry into drainages and water bodies. All workers shall be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.
6. All stockpiles of construction debris, construction material and/or excavated material shall be managed to prevent water quality impacts to storm water or surrounding natural marine habitats. Refer to Section WM-3, Stockpile Management, of the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual.
7. All trash and debris, including asphalt grinding materials, will be disposed of at an appropriate facility.

Additionally, all construction activities and implemented BMPs shall be in accordance with Section 4, Temporary Sediment Control Best Management Practices, in the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual.

Please call me at (415) 485-3408 if you need more information.

Sincerely,

A handwritten signature in blue ink that reads "Hunter Young". The signature is written in a cursive, flowing style.

Hunter Young
Assistant Civil Engineer