

04-ALA-80-PM 2.50/8.00  
04-SCL-85-PM 18.00/24.10  
SHOPP 201.361  
Project ID 0400021202 (EA 2G730K)  
September 2011

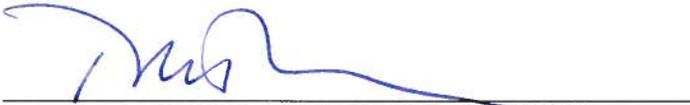
## Request Programming in 2012 SHOPP

PROJECT LOCATION: In Alameda County in the cities of Oakland, Emeryville, Berkeley, and Albany on State Route 80 at various locations from Port of Oakland (PM 2.50) to Alameda/Contra Costa County Line (PM 8.00) and in Santa Clara County in the cities of Sunnyvale and Mountain View on State Route 85 at various locations from I-280 (PM 18.00) to US 101 (PM 24.10).

APPROVAL RECOMMENDED:

  
ROLAND AU-YEUNG, DISTRICT PROGRAM MANAGER

APPROVAL RECOMMENDED:

  
PATRICK K. PANG, PROJECT MANAGER

APPROVED:

  
BIJAN SARTIPI, DISTRICT DIRECTOR

  
DATE

This project initiation document has been prepared under the direction of the following Registered Civil Engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

  
JONATHAN DANG, REGISTERED CIVIL ENGINEER

  
DATE



## **1. INITIATING OFFICER/INITIATOR**

Per the June 2, 2010 Americans with Disabilities Act (ADA) lawsuit settlement as mentioned in the Design Information Bulletin (DIB) 81-01 cover memorandum, all Capital Preventive Maintenance Program (CAPM) projects Ready-to-List (RTL) after July 1, 2010 are required to include ADA curb ramp work.

Due to project schedule and other constraints, including the ADA curb ramp work will delay the RTL date of CAPM projects EA 1G3101 and EA 0C8801. District 4 CAPM Program Manager has determined that another project under State Highway Operation and Protection Program (SHOPP), ADA Curb Ramp Program Code 201.361, is needed to satisfy the ADA lawsuit settlement.

This Small Capital Value Project (SCVP) Project Initiation Document (PID) provides conceptual approval of the proposal and a recommendation to program the project into the current SHOPP Program Code 201.361. A project report will serve as final approval of the proposal.

## **2. PURPOSE AND NEED**

### **2.1 Purpose**

The purpose of this SCVP PID is to comply with DIB 81-01 by upgrading the existing curb ramps to meet current ADA standards and/or installing new curb ramps where they are missing within the limits of the above CAPM projects.

### **2.2 Need**

The need for this project is to complete the ADA curb ramp work deferred from CAPM projects EA 1G3101 and EA 0C8801. Deferral was approved by HQs ADA Infrastructure Program Manager so that the CAPM projects' RTL were not delayed. The deferral requires an approved PID by September 30, 2011.

## **3. DEFICIENCY SUMMARY**

Within the project limits on Route 80, a total of 13 existing curb ramps and approximately 275 square feet of new sidewalk will be reinstalled and/or upgraded in compliance with ADA standards. In addition, 3 new pedestrian push buttons (PPB) will be installed, 4 existing PPB's will be upgraded, and 2 traffic signals will be modified to allow sufficient time for pedestrians to cross the intersection. On Route 85, a total of 28 existing curb ramps/passageway and approximately 1825 square feet

of new sidewalk will be upgraded/retrofitted in compliance with ADA standards. In addition, 3 new pedestrian push buttons (PPB) will be installed and 15 existing PPB's will be upgraded.

The deficiency feature for the existing sidewalk at these investigated locations includes a discontinuity in concrete pavement. Deficiency features associated with existing curb ramps include nonstandard ramp width and slope, steep top landing cross-slope, steep right and left flare slopes, nonstandard gutter slope, uneven and broken concrete pavement at the gutter and pavement joint, missing detectable warning surface, nonstandard groove boarder width, and faded or missing crosswalks or marked crosswalks not bounded by curb ramps.

#### **4. PROJECT PROPOSAL**

To address the existing deficiencies, this project proposes to reinstall and/or upgrade existing curb ramps and sidewalks to ADA standards to improve accessibility, mobility, and safety for all pedestrians, particularly for persons with disabilities.

##### **4.1 Right of Way**

It is anticipated that the proposed improvements for this project will be performed within state routes and will not require any additional right-of-way, easement or environmental mitigation. Therefore, a Right of Way Data Sheet request for this project has been deferred to the Project Approval and Environmental Document (PA&ED) phase.

##### **4.2 Hazardous Materials/Waste Disposal Site**

Various approaches to handling contaminated soil at project work locations will apply, depending on the type of work and characteristics of each site. For example, where there is no soil excavation necessary for curb and ramp construction there may be no soil contamination specifications. Where sites involve minimal excavation with the resulting spoils remaining onsite, the Department's Standard Special Provisions (SSP) can be applied which may not result in any soil sampling. Alternatively, sites along highly travelled roadways involving work that generates surplus excavated soil that is a potentially hazardous waste might require soil sampling and testing, landfill disposal, and SSP 19-900, Material Containing Hazardous Waste Concentrations of Aerially Deposited Lead (ADL), which specifies soil management requirements. Finally, sites with surplus soil that is likely minimally contaminated due to existing pavement caps, historically low traffic volumes contributing little contamination or are a sufficient distance from contaminant sources will be subject to appropriate

SSPs. These define the surplus “clean” soil as the property of the contractor for his removal and use elsewhere.

Details and work conditions for each site will be further defined throughout project development so that the Hazardous Waste Branch can assess the work scopes at each site to determine appropriate SSPs as well as the need for subsurface investigative work for each site.

### **4.3 Environmental**

The anticipated environmental approval for this project is a Categorical Exemption under CEQA and Categorical Exclusion under NEPA. A Preliminary Environmental Analysis Report (PEAR) and other environmental documents for this project have also been deferred to the PA&ED phase for detailed studies to address environmental impacts, if any, such as air and noise, greenhouse gas emissions, hazardous waste/materials, water quality and erosion control, biological resources, visual effects, cultural resources, Native American coordination, community impact, context sensitive solutions, cumulative impacts, growth inducing/indirect effects, right of way, utility, section 4(f), floodplains, farmlands, and other items. It is estimated that the length of time to obtain environmental approval will be 9 to 18 months.

### **4.4 Transportation Management Plan**

The Traffic Management Plan (TMP) is a specialized program tailored to prevent and mitigate the impacts of a construction project by applying a variety of techniques including system management, demand management, construction strategies, and public awareness measures. The basic objectives of TMP are to maintain efficient and safe movement of vehicles through the construction zone, to foster a high level of awareness of potential impacts among residents, motorists, and the media, to achieve public acceptance of the project and traffic mitigation measures, to minimize disruptions to traffic on nearby roads/streets/lanes, and if need be COZEEP will fund as part of TMP. A TMP Data Sheet for this project has been deferred to the PA&ED phase for detailed studies.

**5. PROGRAMMING**

**5.1 Capital Cost**

**CAPITAL COST ESTIMATE FOR 2012 SHOPP**

<b>Fiscal Year</b>	<b>Right of Way Capital <sup>(1)</sup></b>	<b>Construction Capital <sup>(2)</sup></b>
FY11/12	\$25,000	\$1,500,000
FY12/13	\$25,000	\$1,560,000
FY13/14	\$25,000	\$1,620,000
FY14/15	\$25,000	\$1,690,000
FY15/16 (Mid Year Construction)	\$25,000	\$1,710,000

<sup>(1)</sup> Right of Way Capital cost has been escalated.

<sup>(2)</sup> Construction capital cost is escalated at a rate of 4.0% per year.

**5.2 Capital Support Cost**

**CAPITAL SUPPORT ESTIMATE FOR 2012 SHOPP**

	<b>PROJECT SUPPORT COMPONENTS</b>								<b>Total</b>
	<b>PA&amp;ED 0 Phase</b>		<b>Design 1 Phase</b>		<b>Right of Way 2 Phase</b>		<b>Construction 3 Phase</b>		
	<b>Dist</b>	<b>DES</b>	<b>Dist</b>	<b>DES</b>	<b>Dist</b>	<b>DES</b>	<b>Dist</b>	<b>DES</b>	
Estimated PY's	1.5	0	3.0	0	0.1	0	1.3	0	5.9

**6. SCHEDULE**

<b>HQ Milestones</b>	<b>Delivery Date (Month, Day, Year)</b>
Begin PA&ED	07/01/2012
PA&ED	07/01/2013
Regular Right of Way	10/01/2013
Project PS&E	01/01/2015
Right of Way Certification	01/01/2015
Ready to List	04/01/2015
Approve Contract	07/01/2015
Contract Acceptance	04/01/2016
End Project	07/01/2016

**7. DISTRICT CONTACTS**

Roland Au-Yeung	Program Advisor, Chief, Office of Traffic	510-286-4560
Patrick K. Pang	Project Manager	510-286-5566
	Chief, Office of Advance Planning	
Robert Blanco	Branch Chief, Advance Planning, PSR II	510-286-5676
Jonathan Dang	Project Engineer, Advance Planning, PSR II	510-622-5963

**8. LIST OF ATTACHMENTS**

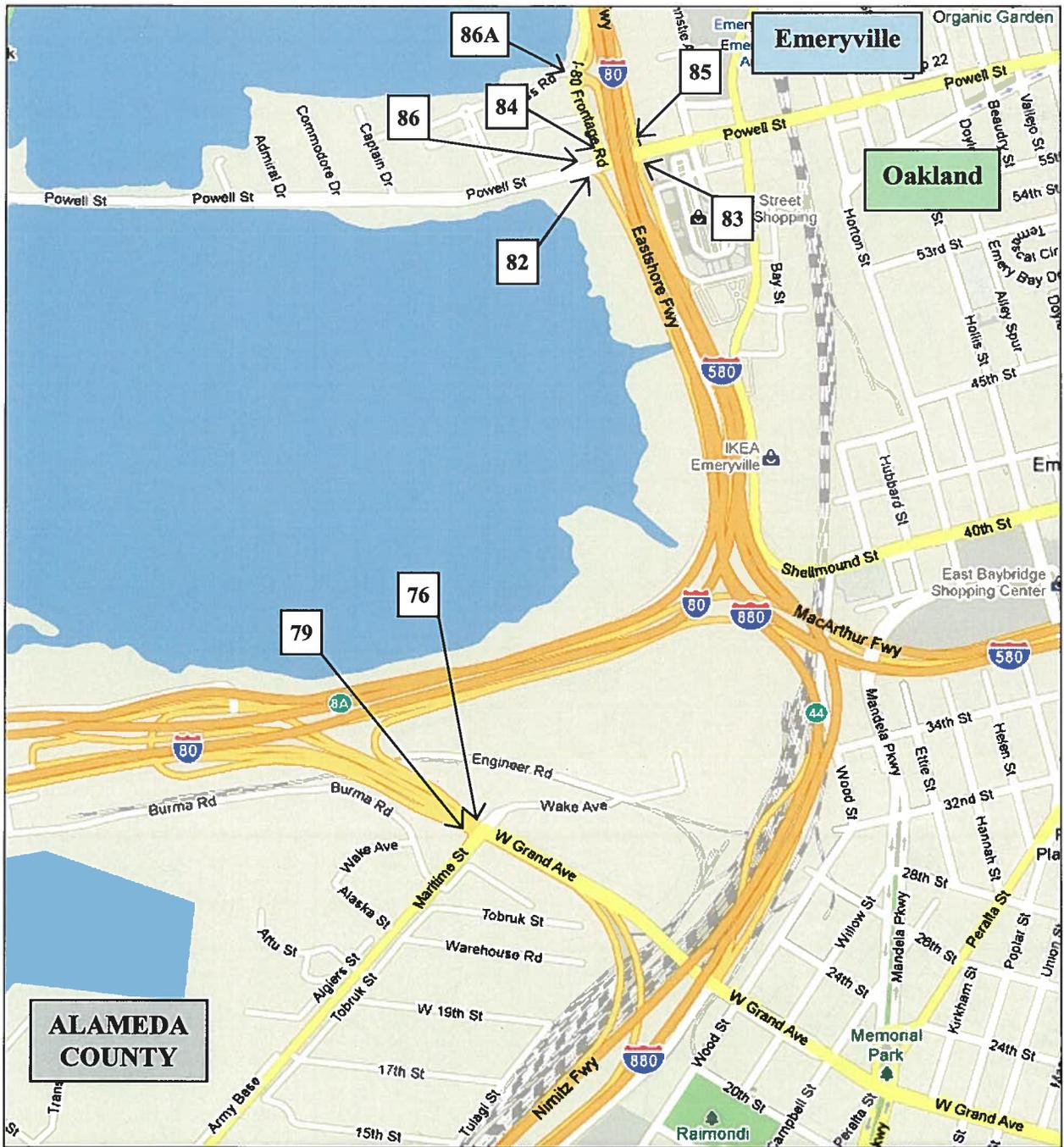
- A. Project Location Map
- B. Preliminary Layout Sheets
- C. General ADA PID Template - Location, Scope, and Quantity Summary
- D. Preliminary Project Cost Estimate Summary
- E. Programmatic Materials Recommendations
- F. Risk Management Plan

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**ATTACHMENT A**

**Project Location Map**

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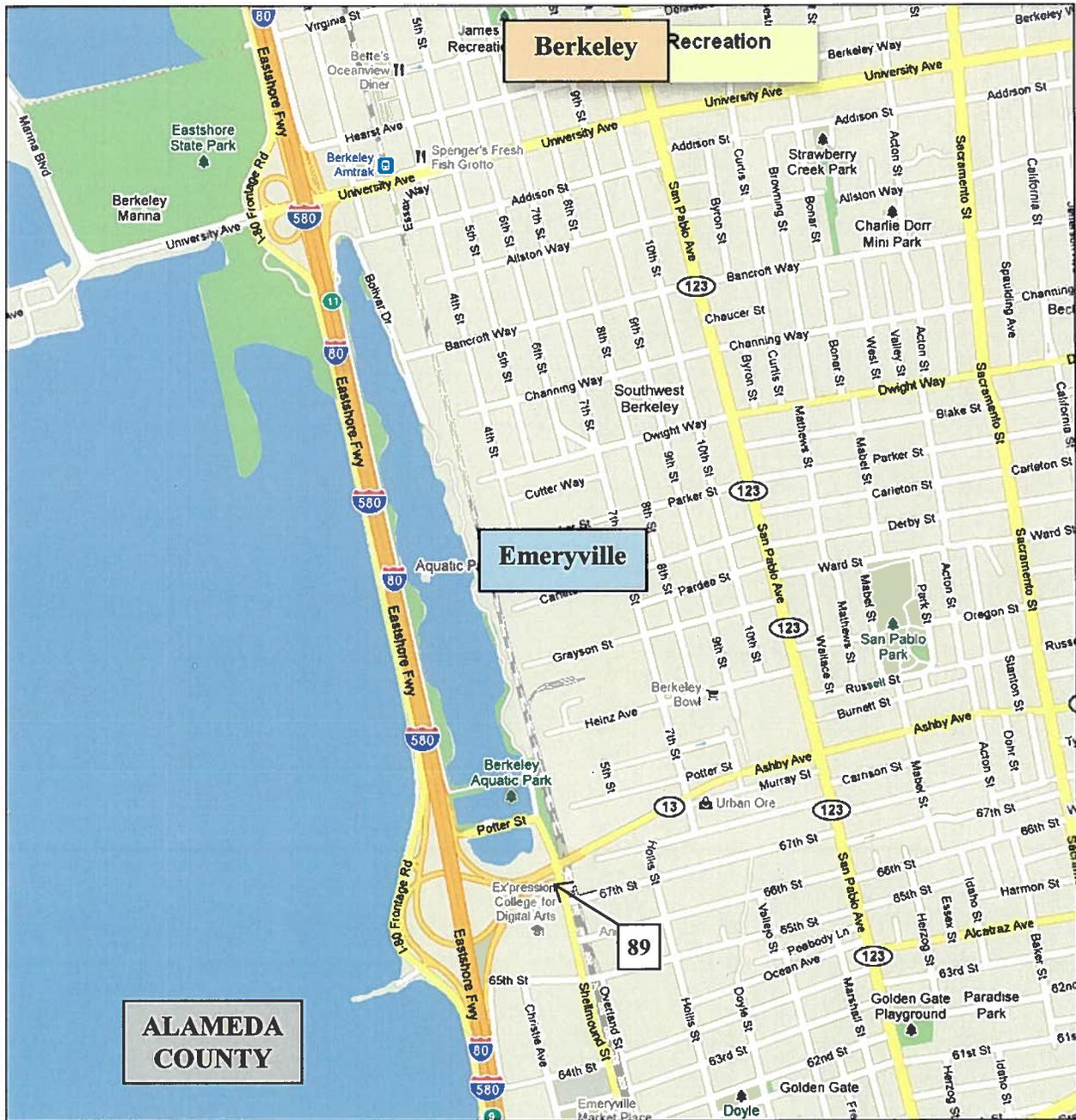


**PROJECT LOCATION MAP**

**PROJECT ID #0400021202 (EA 2G730K) – SCVP (CAPM) PID**

*INSTALL AND/OR UPGRADE EXISTING CURB RAMPS AND PEDESTRIAN FACILITIES TO ADA STANDARDS IN ALAMEDA COUNTY IN THE CITIES OF OAKLAND, EMERYVILLE, BERKELEY, AND ALBANY ON ROUTE 80 AT VARIOUS LOCATIONS FROM PORT OF OAKLAND OC TO ALA/CC COUNTY LINE AND IN SANTA CLARA COUNTY IN THE CITIES OF SUNNYVALE AND MOUNTAIN VIEW ON ROUTE 85 AT VARIOUS LOCATIONS FROM I-280 TO US 101*

COUNTY	ROUTE	POST MILE	SHEET NO.
ALAMEDA	80	2.50/8.00	1 of 4

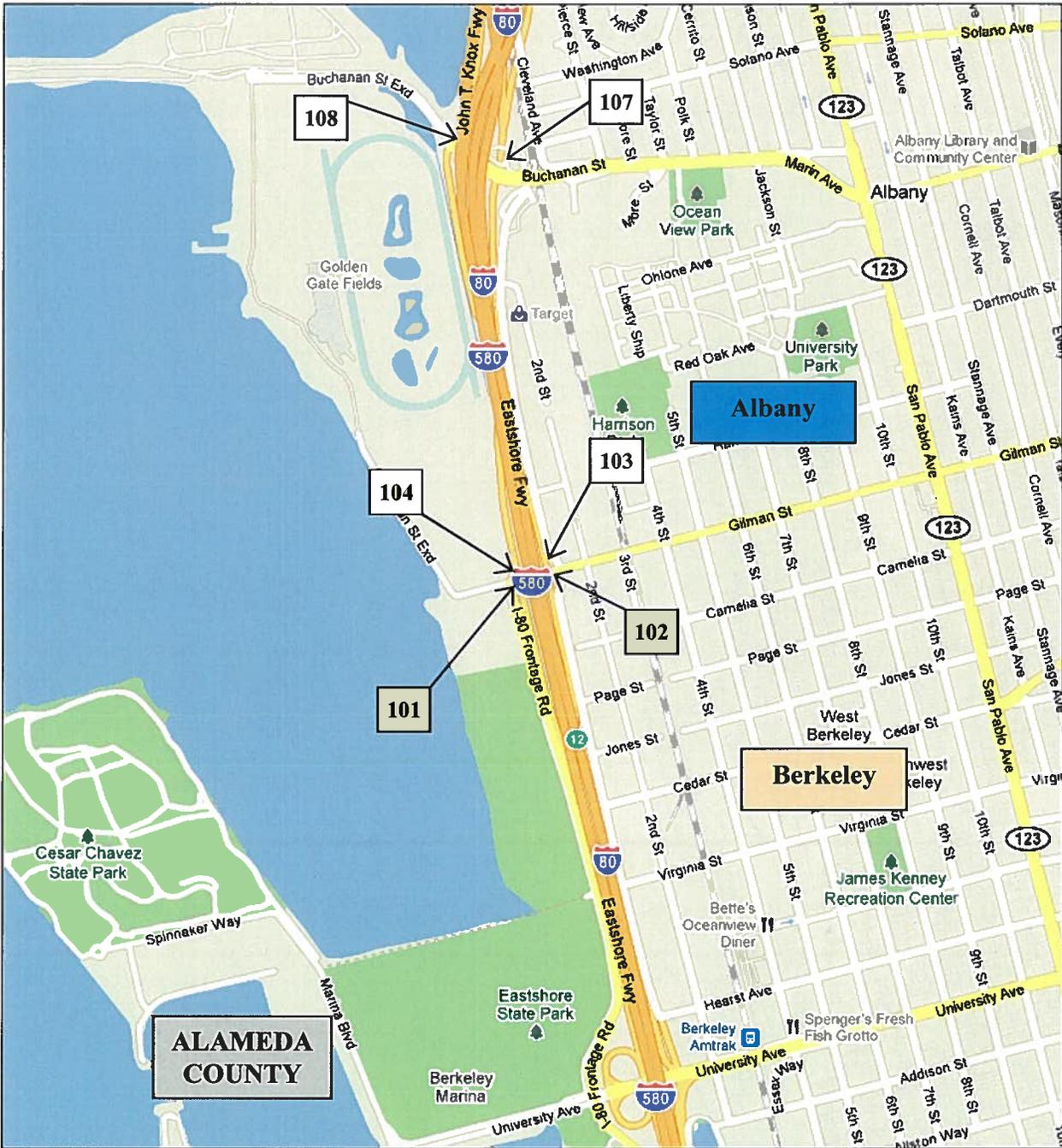


**PROJECT LOCATION MAP**

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**INSTALL AND/OR UPGRADE EXISTING CURB RAMPS AND PEDESTRIAN FACILITIES TO ADA STANDARDS IN ALAMEDA COUNTY IN THE CITIES OF OAKLAND, EMERYVILLE, BERKELEY, AND ALBANY ON ROUTE 80 AT VARIOUS LOCATIONS FROM PORT OF OAKLAND OC TO ALA/CC COUNTY LINE AND IN SANTA CLARA COUNTY IN THE CITIES OF SUNNYVALE AND MOUNTAIN VIEW ON ROUTE 85 AT VARIOUS LOCATIONS FROM I-280 TO US 101**

COUNTY	ROUTE	POST MILE	SHEET NO.
ALAMEDA	80	2.50/8.00	2 of 4

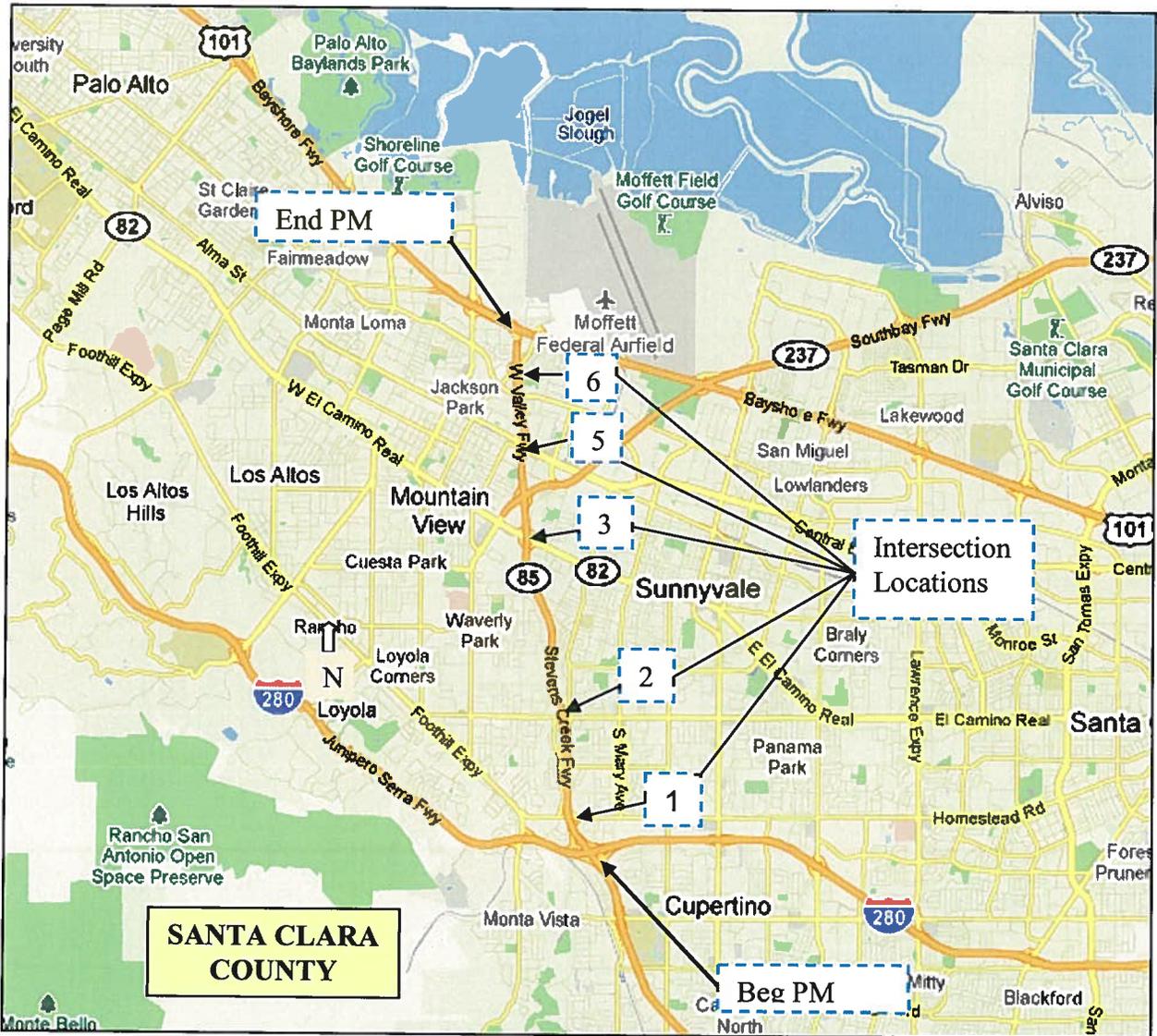


### PROJECT LOCATION MAP

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COUNTY	ROUTE	POST MILE	SHEET NO.
ALAMEDA	80	2.50/8.00	3 of 4



**SANTA CLARA  
COUNTY**

**PROJECT LOCATION MAP**

**PROJECT ID #0400021202 (EA 2G730K) – SCVP (CAPM) PID**

*INSTALL AND/OR UPGRADE EXISTING CURB RAMPS AND PEDESTRIAN FACILITIES TO ADA STANDARDS  
IN ALAMEDA COUNTY IN THE CITIES OF OAKLAND, EMERYVILLE, BERKELEY, AND ALBANY  
ON ROUTE 80 AT VARIOUS LOCATIONS FROM PORT OF OAKLAND OC TO ALA/CC COUNTY LINE  
AND IN SANTA CLARA COUNTY IN THE CITIES OF SUNNYVALE AND MOUNTAIN VIEW ON ROUTE 85  
AT VARIOUS LOCATIONS FROM I-280 TO US 101*

COUNTY	ROUTE	POST MILE	SHEET NO.
SANTA CLARA	85	18.00/24.10	4 of 4

04-ALA-80-PM 2.50/8.00

04-SCL-85-18.00/24.10

SHOPP 201.361

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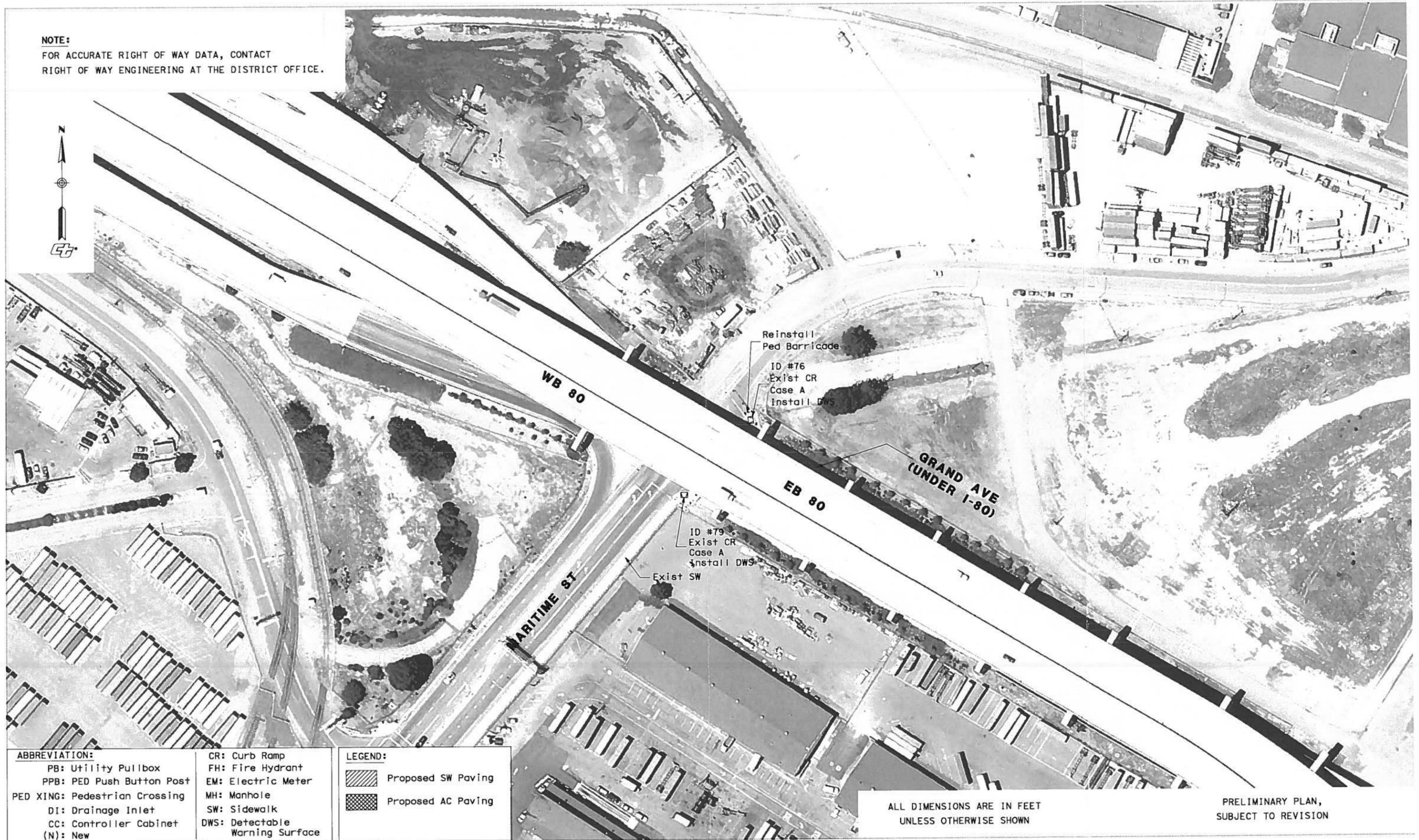
September 2011

## ATTACHMENT B

# **Preliminary Layout Sheets**

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**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



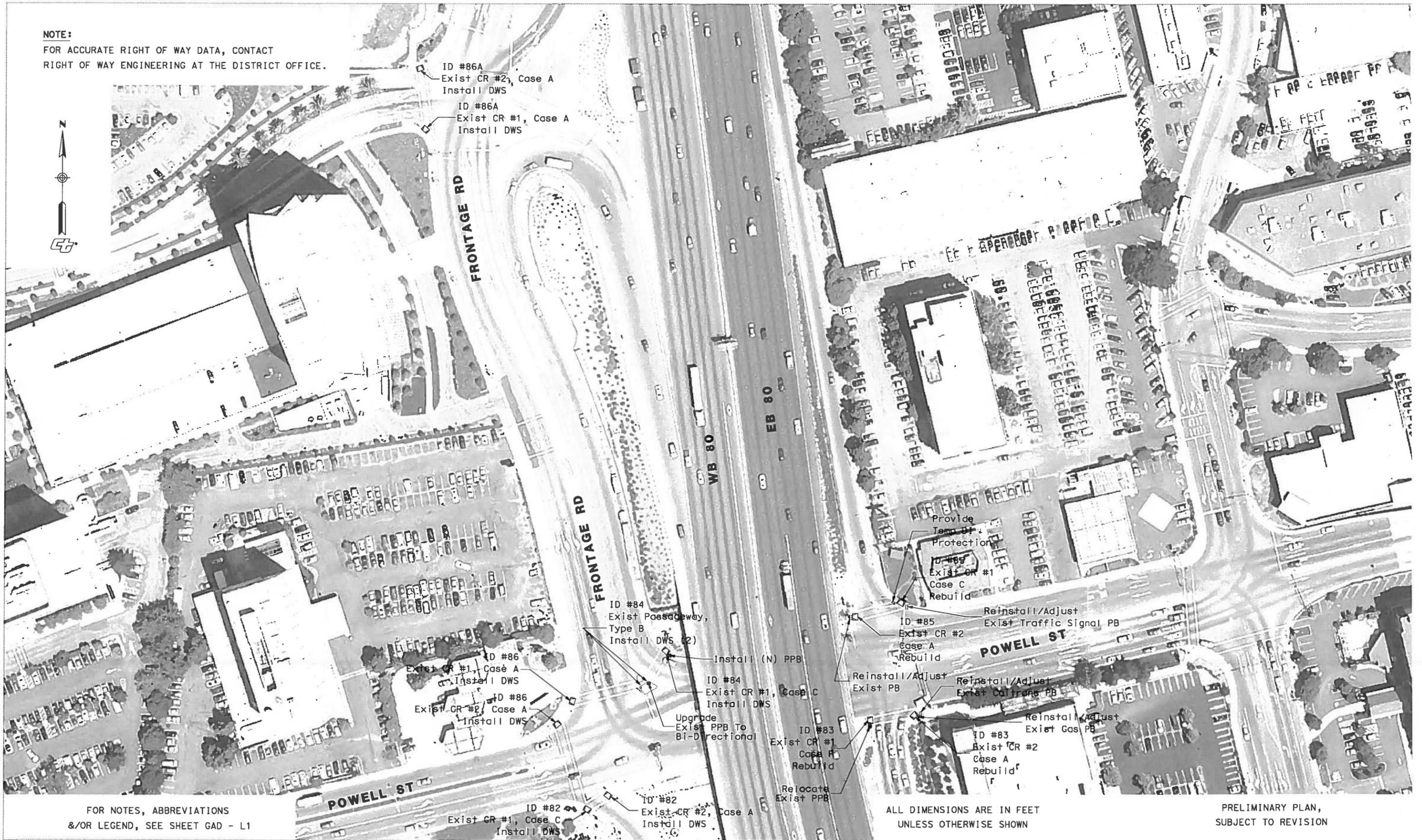
ABBREVIATION:		LEGEND:	
PB: Utility Pullbox	CR: Curb Ramp	Proposed SW Paving	
PPB: PED Push Button Post	FH: Fire Hydrant	Proposed AC Paving	
PED XING: Pedestrian Crossing	EM: Electric Meter		
DI: Drainage Inlet	MH: Manhole		
CC: Controller Cabinet	SW: Sidewalk		
(N): New	DWS: Detectable Warning Surface		

ALL DIMENSIONS ARE IN FEET  
UNLESS OTHERWISE SHOWN

PRELIMINARY PLAN,  
SUBJECT TO REVISION

PROJECT ID	EA	SMALL CAPITAL VALUE PROJECT (SCVP) ADA PEDESTRIAN INFRASTRUCTURE PROJECT - SCVP (CAPM) 04-ALA-80-PM 2.50/8.00; 04-SCL-85-PM 18.00/24.10	<b>GEOMETRICS APPROVAL DRAWING</b>	PREP'D BY	DATE	CHECKED BY	DATE	REV'D BY	DATE	SCALE	SHEET NO.
0400021202	2G730K			JD	5/11			JD	9/11	1"=50'	GAD - L1

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FOR NOTES, ABBREVIATIONS  
&/OR LEGEND, SEE SHEET GAD - L1

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0400021202	2G730K			JD	5/11			JD	9/11	1"=50'	GAD - L2

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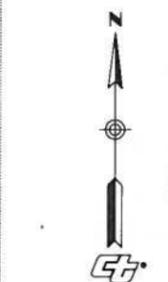
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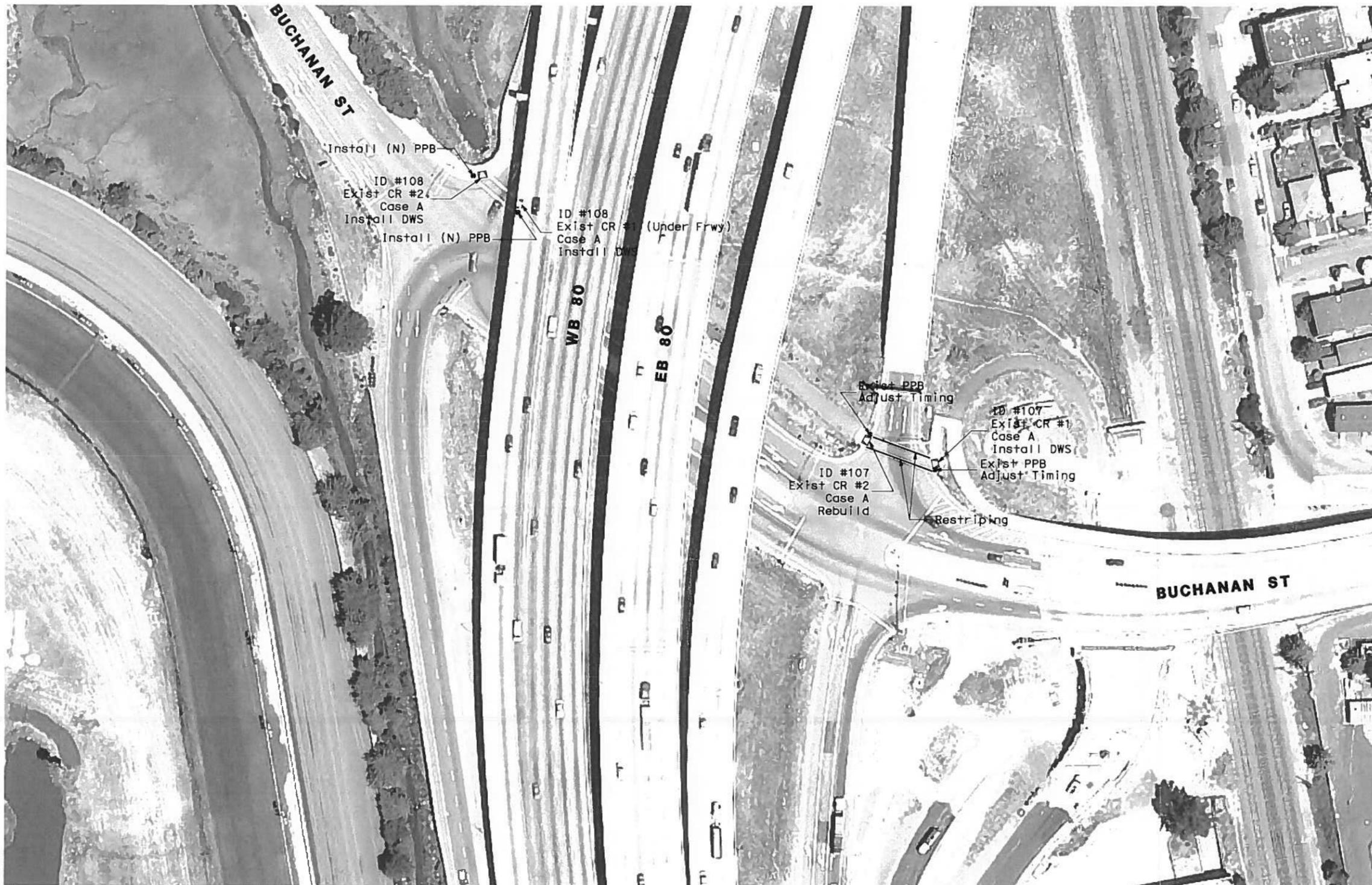
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0400021202	2G730K			JD	5/11			JD	9/11	1"=50'	GAD - L4

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0400021202	2G730K	04-ALA-80-PM 2.50/8.00; 04-SCL-85-PM 18.00/24.10			HD	5/11		JD	9/11		1"=50'

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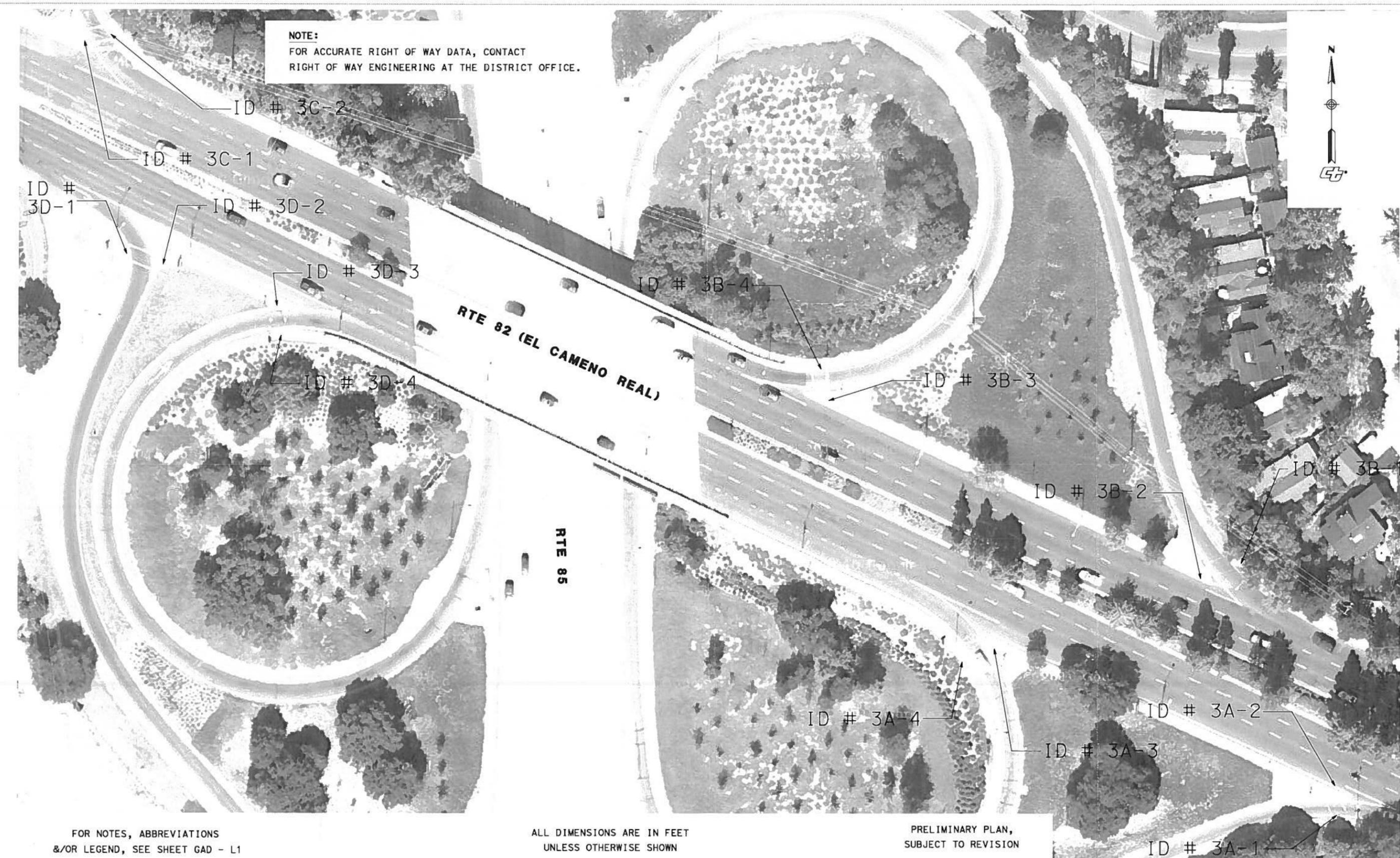
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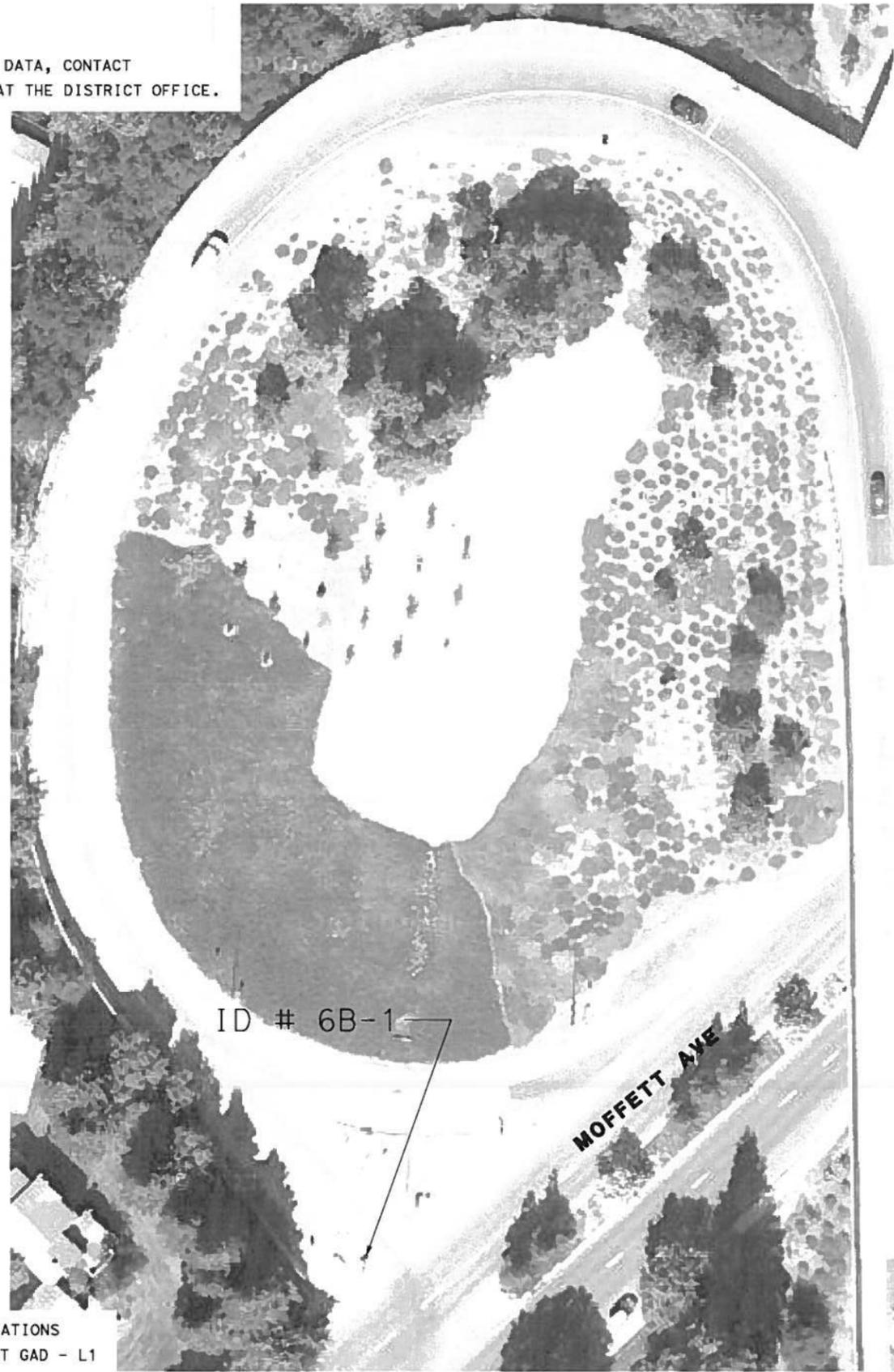
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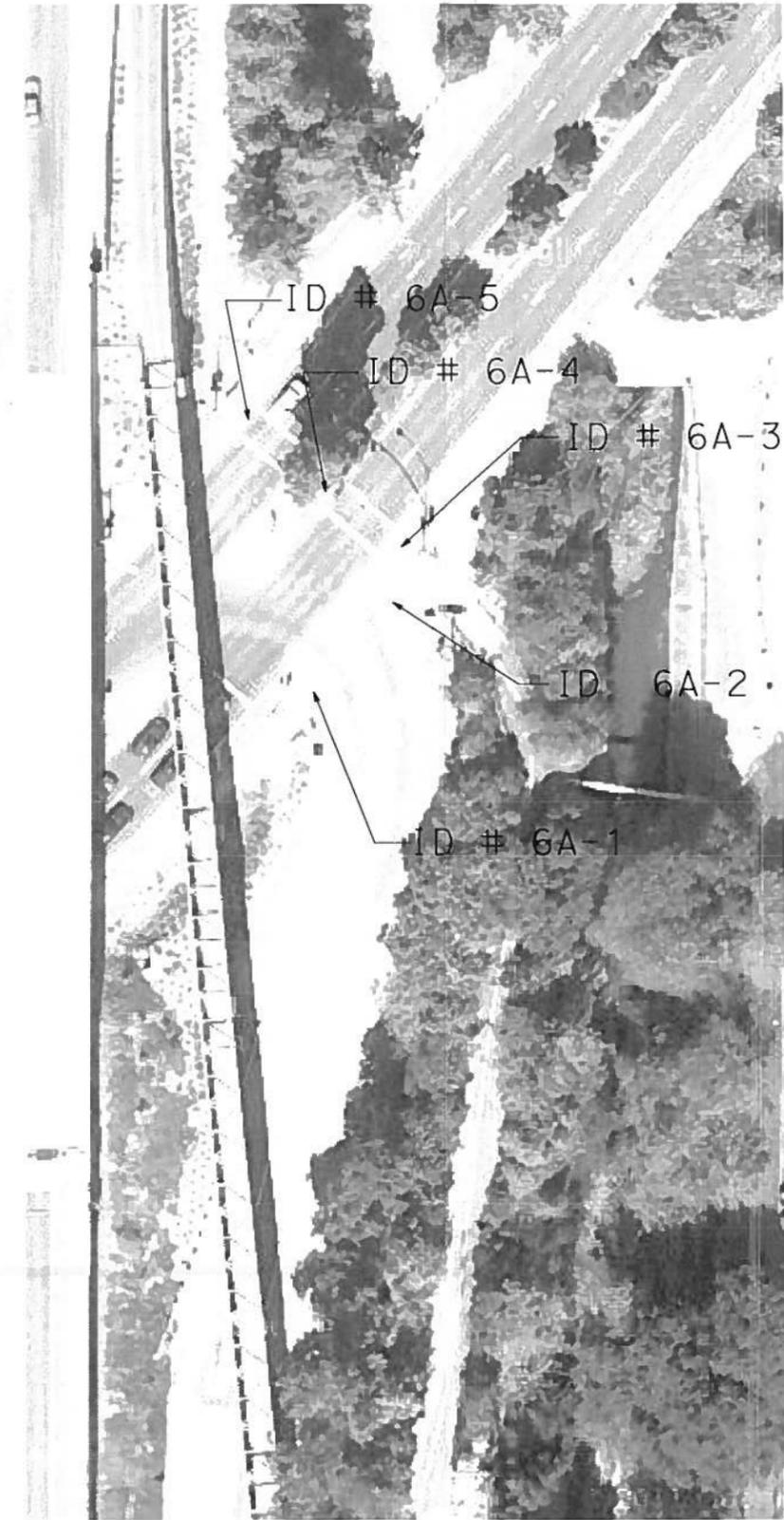
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RTE 85



FOR NOTES, ABBREVIATIONS  
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## ATTACHMENT C

### **General ADA PID Template** (Location, Scope and Quantity Summary)

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GENERAL ADA TEMPLATE - LOCATION, SCOPE AND QUANTITY SUMMARY

ID #	Location Description	CO	City	ROUTE	(1) ADA ITEMS								(2) TRAFFIC ITEMS				(3) R/W ITEMS			(4) ENVIRONMENTAL ITEMS		(5) DRAINAGE			(6) MISC. FACILITIES			(7) NOTES/ REMARKS/ RISKS										
					Curb Ramp (*)		Traffic Island		Sidewalk		Bus Stop		DWS Placem't	Ped Push Button	Striping/Pavement Marker	Traffic Signal	Roadside Signs	New R/W Take	TCE	Utility Remove/Relocate	Tree Removal	Historic Feature/Misc	DI	Rdwy Pavem't Work	Curb/Gutter	Drwy	FH		CL Fence									
					Case	Each	Type	Each	Width (ft)	Length (ft)	Width (ft)	Length (ft)	Each	(EA)	(LF)	(EA)	(EA)	(SQFT)	(SQFT)	(EA)	(EA)	(EA)	(EA)	(SQFT)	(LF)	(SQFT)	(EA)		(LF)									
76	WB 80 & EB 580 ON FR GRAND AVE/ MARITIME ST	ALA	OAK	80	A	0								1																					Ped barricade sign collapsed. To be reinstalled			
79	WB 80 OFF TO GRAND AVE/ MARITIME ST	ALA	OAK	80	A	0								1																								
82	WB 80 ON FROM EB POWELL ST	ALA	EMV	80	C	0								1																								
82	WB 80 ON FROM EB POWELL ST	ALA	EMV	80	A	0								1																								
83	EB 80 OFF TO POWELL ST	ALA	EMV	80	F	1								1	1																					Relocate 1 PPB		
83	EB 80 OFF TO POWELL ST	ALA	EMV	80	A	1								1																						Reinstall/adjust 1 Caltrans PB and 1 PG&E PB		
84	WB 80 ON FROM WB POWELL ST	ALA	EMV	80	C	0								1	1																					1 new (N) PPB		
84	WB 80 ON FROM WB POWELL ST	ALA	EMV	80			B	0						2	1																					Upgrade 1- Directional PPB to 2- Directional PPB or install 1 new (N) PPB		
85	EB 80 ON FROM POWELL ST	ALA	EMV	80	C	1								1																						Adjust 1 street lighting pull box; Provide 1 Temp DI Protection		
85	EB 80 ON FROM POWELL ST	ALA	EMV	80	A	1								1																						Reinstall/adjust 1 PB		
86A	WB 80 OFF TO FRONTAGE RD/ POWELL ST	ALA	EMV	80	A	0								1																								
86A	WB 80 OFF TO FRONTAGE RD/ POWELL ST	ALA	EMV	80	A	0								1																								
86	WB 80 OFF TO POWELL ST	ALA	EMV	80	A	0								1																								
86	WB 80 OFF TO POWELL ST	ALA	EMV	80	A	0								1																								
89	EB 80 OFF TO SHELLMOUND ST	ALA	EMV	80	C	1								1																								
89	EB 80 OFF TO SHELLMOUND ST	ALA	EMV	80	C	1								1																								
101	WB 80 ON FROM GILMAN ST	ALA	BER	80	A	1								1																								
101	WB 80 ON FROM GILMAN ST	ALA	BER	80	G	1								1																								
101	WB 80 ON FROM GILMAN ST	ALA	BER	80						5	55																										5'x55' SW	
101	WB 80 ON FROM GILMAN ST	ALA	BER	80	G	1								1																								
102	EB 80 OFF TO GILMAN ST	ALA	BER	80	A	1								1																								
102	EB 80 OFF TO GILMAN ST	ALA	BER	80	C	0								1																								
103	EB 80 ON FROM GILMAN ST	ALA	BER	80	C	0								1																								AC overlay rdwy pavement w/in crosswalk
103	EB 80 ON FROM GILMAN ST	ALA	BER	80	A	1								1																								
104	WB 80 OFF TO GILMAN ST	ALA	BER	80	A	1								1																								
104	WB 80 OFF TO GILMAN ST	ALA	BER	80	C	0								1																								

GENERAL ADA TEMPLATE - LOCATION, SCOPE AND QUANTITY SUMMARY

ID #	Location Description	CO	City	ROUTE	(1) ADA ITEMS								(2) TRAFFIC ITEMS				(3) R/W ITEMS			(4) ENVIRONMENTAL ITEMS		(5) DRAINAGE			(6) MISC. FACILITIES			(7) NOTES/ REMARKS/ RISKS	
					Curb Ramp (*)		Traffic Island		Sidewalk		Bus Stop		DWS Placem't	Ped Push Button	Striping/Pavement Marker	Traffic Signal	Roadside Signs	New R/W Take	TCE	Utility Remove/Relocate	Tree Removal	Historic Feature/Misc	DI	Rdwy Pavem't Work	Curb/Gutter	Drwy	FH		CL Fence
					Case	Each	Type	Each	Width (ft)	Length (ft)	Width (ft)	Length (ft)	Each	(EA)	(LF)	(EA)	(EA)	(SQFT)	(SQFT)	(EA)	(EA)	(EA)	(EA)	(SQFT)	(LF)	(SQFT)	(EA)		(LF)
107	EB 80 ON FR BUCHANAN ST	ALA	ALB	80	A	0								1	1	120											Upgrade PPB to designate signal time for pedestrians		
107	EB 80 ON FR BUCHANAN ST	ALA	ALB	80	A	1								1	1											25	Upgrade PPB to designate signal time for pedestrians		
108	WB 80 OFF TO BUCHANAN ST	ALA	ALB	80	A	0								1	1												1 new (N) PPB		
108	WB 80 OFF TO BUCHANAN ST	ALA	ALB	80	A	0								1	1												1 new (N) PPB		
1	1A-1	SCL	SUN	85	D	1			1.5	11.5				1	1											25	Add concrete pad adjacent to traffic signal pole for wheel chair passage		
2	1A-2	SCL	SUN	85	F	1								1	1											20			
3	1B-1	SCL	SUN	85	C	1			2.75	10				1												20	Add concrete pad adjacent to traffic signal pole for wheel chair passage		
4	1B-2	SCL	SUN	85			C	0						1		40									200	Repave AC pavement (10x20ft), Retrofit DWS			
5	1B-3	SCL	SUN	85			C	0						2													Retrofit DWS		
6	1B-4	SCL	SUN	85	A	1								1	1	40									200	25	Repave AC pavement (10x20ft)		
7	1B-5	SCL	SUN	85	A	0								1	1												Retrofit DWS - outside state R/W		
8	1B-6	SCL	SUN	85	C	0								1	1												Retrofit DWS - outside state R/W		
9	1B-7	SCL	SUN	85	C	0								1	1												Retrofit DWS - outside state R/W		
10	1B-8	SCL	SUN	85	A	0								1	1												Retrofit DWS - outside state R/W		
11	1B-9	SCL	SUN	85	A	0								1	1												Retrofit DWS - outside state R/W		
12	2A-1	SCL	SUN	85	F	1								1	1											20			
13	2A-2	SCL	SUN	85	A	1								1	1												25		
14	2B-1	SCL	SUN	85	F	1			1.5	10				1	1											20	Add concrete pad adjacent to traffic signal pole for wheel chair passage		

GENERAL ADA TEMPLATE - LOCATION, SCOPE AND QUANTITY SUMMARY

ID #	Location Description	CO	City	ROUTE	(1) ADA ITEMS								(2) TRAFFIC ITEMS				(3) R/W ITEMS			(4) ENVIRONMENTAL ITEMS		(5) DRAINAGE			(6) MISC. FACILITIES			(7) NOTES/ REMARKS/ RISKS	
					Curb Ramp (*)		Traffic Island		Sidewalk		Bus Stop		DWS Placem't	Ped Push Button	Striping/Pavement Marker	Traffic Signal	Roadside Signs	New R/W Take	TCE	Utility Remove/Relocate	Tree Removal	Historic Feature/Misc	DI	Rdwy Pavem't Work	Curb/Gutter	Drwy	FH		CL Fence
					Case	Each	Type	Each	Width (ft)	Length (ft)	Width (ft)	Length (ft)	Each	(EA)	(LF)	(EA)	(EA)	(SQFT)	(SQFT)	(EA)	(EA)	(EA)	(EA)	(SQFT)	(LF)	(SQFT)	(EA)		(LF)
15	2B-2	SCL	SUN	85	A	1								1	1	240											Install push button w/ pole. Repave AC pavement (120x12ft)		
16	2B-3	SCL	SUN	85			B	0						2	1												Retrofit DWS		
17	2C-1	SCL	SUN	85	A	1								1	1	50											Install push button w/ pole. Repave AC pavement (25x12ft)		
18	2C-2	SCL	SUN	85	F	1			5.4	14				1	1	34											Repave AC pavement (17x12ft)		
19	2C-3	SCL	SUN	85			B	0						2	1												Retrofit DWS		
20	2D-1	SCL	SUN	85	A	1								1	1												Install push button w/ pole		
21	2D-2	SCL	SUN	85	F	1			1.5	10				1	1												Add concrete pad adjacent to traffic signal pole for wheel chair passage		
22	2D-3	SCL	SUN	85			B	0						2													Retrofit DWS		
23	3A-1	SCL	MNV	85	C	1								1															
24	3A-2	SCL	MNV	85	C	1								1															
25	3A-3	SCL	MNV	85	A	1			7	60				1													SW belongs to Rte 82 between on/off ramps. May include in another Rte 82 project		
26	3A-4	SCL	MNV	85	C	1			7.4	120				1													SW belongs to Rte 82 between on/off ramps. May include in another Rte 82 project		
27	3B-1	SCL	MNV	85	C	1								1															
28	3B-2	SCL	MNV	85	A	1			4.5	8				1													SW belongs to Rte 82 between on/off ramps. May include in another Rte 82 project		
29	3B-3	SCL	MNV	85	A	1								1															
30	3B-4	SCL	MNV	85	C	1								1															
31	3C-1	SCL	MNV	85	A	1								1															
32	3C-2	SCL	MNV	85	C	1								1															
33	3D-1	SCL	MNV	85	A	0								1															
34	3D-2	SCL	MNV	85	C	0								1															

GENERAL ADA TEMPLATE - LOCATION, SCOPE AND QUANTITY SUMMARY

ID #	Location Description	CO	City	ROUTE	(1) ADA ITEMS								(2) TRAFFIC ITEMS				(3) R/W ITEMS			(4) ENVIRONMENTAL ITEMS		(5) DRAINAGE			(6) MISC. FACILITIES			(7) NOTES/ REMARKS/ RISKS	
					Curb Ramp (*)		Traffic Island		Sidewalk		Bus Stop		DWS Placem't	Ped Push Button	Striping/Pavement Marker	Traffic Signal	Roadside Signs	New R/W Take	TCE	Utility Remove/Relocate	Tree Removal	Historic Feature/Misc	DI	Rdwy Pavem't Work	Curb/Gutter	Drwy	FH		CL Fence
					Case	Each	Type	Each	Width (ft)	Length (ft)	Width (ft)	Length (ft)	Each	(EA)	(LF)	(EA)	(EA)	(SQFT)	(SQFT)	(EA)	(EA)	(EA)	(EA)	(SQFT)	(LF)	(SQFT)	(EA)		(LF)
35	3D-3	SCL	MNV	85	A	1								1		20											Repave AC Pavement (10x12ft)		
36	3D-4	SCL	MNV	85	C	1			7.4	66				1												20	SW belongs to Rte 82 between on/off ramps. May include in another Rte 82 project		
37	5A-1	SCL	MNV	85	C	1								1												20	Relocate Ped Xing barricade		
38	5A-2	SCL	MNV	85	C	1								1												20			
39	5B-1	SCL	MNV	85	C	1								1												20			
40	5B-2	SCL	MNV	85	C	1								1												20			
41	5C-1	SCL	MNV	85																									
42	5C-2	SCL	MNV	85																									
43	6A-1	SCL	MNV	85	G	0																							
44	6A-2	SCL	MNV	85	G	0																							
45	6A-3	SCL	MNV	85	A	0																					Already Upgraded		
46	6A-4	SCL	MNV	85			A	0																			Already Upgraded		
47	6A-5	SCL	MNV	85			TBD	1						1													Trail entrance/exit		
48	6B-1	SCL	MNV	85																							No SW, no CR		
TOTAL (ALL SHEETS)						41		1						75	25	664										1	2884	955	

**Abbreviations:** (N)= New; DWS=Detectable Warning Surface; TCE=Temporary Construction Easement; CL Fence=Chainlink Fence; FH=Fire Hydrant; DI=Drainage Inlet; Drwy=Driveway; PB=Ped Push Button  
 ALA=Alameda County, SCL=Santa Clara County, OAK=Oakland, EMV=Emeryville, BER=Berkeley, ALB=Albany, SUN=Sunnyvale, MNV=Mountain View

**Notes:**

- 1 Curb Ramp & Sidewalk are quantified as Minor Concrete Item.
- 2 Notes/Remarks/Risks column is for marking up possible items with unknown cost.
- 3 Sidewalk: Assuming a thickness of 6 inches.
- (\*) See Revised Standard Plan RSP A88A and Standard Plan A88B for Curb Ramp and Curb Ramp and Island Passageway Details, Respectively.

04-ALA-80-PM 2.50/8.00  
04-SCL-85-18.00/24.10  
SHOPP 201.361  
Project ID 0400021202 (EA 2G730K)  
September 2011

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## ATTACHMENT D

# **Preliminary Project Cost Estimate Summary**

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# PRELIMINARY PROJECT COST ESTIMATE SUMMARY

04-ALA-80-PM 2.50/8.00

04-SCL-85-PM 18.00/24.10

EA: 04-2G730K

SHOPP 201.361 - ADA CURB RAMPS

**Project Description:** Install and/or upgrade existing curb ramps and pedestrian facilities to Americans With Disabilities Act (ADA) standards

**Limits:** In Alameda County in the cities of Oakland, Emeryville, Berkeley, and Albany on State Route 80 at various locations from Port of Oakland (PM 2.50) to Alameda/Contra Costa County Line (PM 8.00) and in Santa Clara County in the cities of Sunnyvale and Mountain View on State Route 85 at various locations from I-280 (PM 18.0) to us 101 (PM 24.1)

**Proposed Improvement:** To improve public safety, mobility and accessibility for people with disabilities

**Alternate:** None

<b>TOTAL ROADWAY ITEMS</b>	<b>\$ <u>1,501,000</u></b>
<b>TOTAL STRUCTURE ITEMS</b>	<b>\$ <u>0</u></b>
<b><i>SUBTOTAL CONSTRUCTION COSTS</i></b>	<b>\$ <u>1,501,000</u></b>
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$ <u>25,000</u></b>
<b>TOTAL PROJECT CAPITAL OUTLAY COSTS</b>	<b>\$ <u>1,526,000</u></b>

Approved By Program

Manager:

  
Signature  
for ROLAND  
Au-Yang

Phone:

286-4560

Date:

9/16/2011



**PRELIMINARY PROJECT COST ESTIMATE SUMMARY**

**04-ALA-80-PM 2.50/8.00**

**04-SCL-85-PM 18.00/24.10**

**EA: 04-2G730K**

**SHOPP 201.361 - ADA CURB RAMPS**

**Section 4- Specialty Items**

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Detectable Warning Surface	<u>920</u>	<u>SF</u>	\$ <u>40.0</u>	\$ <u>36,800</u>	
Resident Engineer's Office Space	<u>1</u>	<u>LS</u>	\$ <u>100,000</u>	\$ <u>100,000</u>	
Construction Site Best Management Practices	<u>1</u>	<u>LS</u>	\$ <u>45,000</u>	\$ <u>45,000</u>	
Environmental Compliance	<u>1</u>	<u>LS</u>	\$ <u>12,000</u>	\$ <u>12,000</u>	
Minor Concrete (Curb, Curb Ramp, & Sidewalk)	<u>160</u>	<u>CY</u>	\$ <u>650</u>	\$ <u>104,000</u>	

***Total Section 4 Specialty Items* \$ 297,800**

**Section 5 - Traffic Items**

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Electrical (Ped Push Button Post)	<u>10</u>	<u>EA</u>	\$ <u>10,000</u>	\$ <u>100,000</u>	
Electrical (Upgrade/ Modify Traff Signals)	<u>17</u>	<u>EA</u>	\$ <u>7,000</u>	\$ <u>119,000</u>	
Traffic Control Systems	<u>1</u>	<u>LS</u>	\$ <u>66,000</u>	\$ <u>66,000</u>	
Transportation Management Plan (TMP)	<u>1</u>	<u>LS</u>	\$ <u>116,000</u>	\$ <u>116,000</u>	
Roadside signs	<u>1</u>	<u>LS</u>	\$ <u>5,000</u>	\$ <u>5,000</u>	
Striping (Remove & New)	<u>1</u>	<u>LS</u>	\$ <u>30,000</u>	\$ <u>30,000</u>	

***Subtotal Section 5 Traffic Items* \$ 436,000**

**Section 6 - Planting and Irrigation**

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting	<u>1</u>	<u>LS</u>	\$ <u>5,000</u>	\$ <u>5,000</u>	
Replacement Planting	<u>1</u>	<u>LS</u>	\$ <u>5,000</u>	\$ <u>5,000</u>	
Irrigation Modification	<u>0</u>	<u>LS</u>	\$ <u>-</u>	\$ <u>-</u>	
Relocate Existing Irrigation Facilities	<u>0</u>	<u>LS</u>	\$ <u>-</u>	\$ <u>-</u>	

***Subtotal Section 6 Planting and Irrigation* \$ 10,000**

**Section 7 - Roadside Management and Safety Section**

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Remove Metal Beam Guardrail (MBGR)	<u>0</u>	<u>LF</u>	\$ <u>40</u>	\$ <u>-</u>	
Remove Concrete Island	<u>0</u>	<u>CY</u>	\$ <u>200</u>	\$ <u>-</u>	
Remove Concrete (Curb &/or Gutter)	<u>915</u>	<u>LF</u>	\$ <u>20</u>	\$ <u>18,300</u>	
Remove Concrete (Curb, Gutter, & Sidewalk)	<u>140</u>	<u>CY</u>	\$ <u>150</u>	\$ <u>21,000</u>	
Remove Asphat Concrete	<u>65</u>	<u>CY</u>	\$ <u>200</u>	\$ <u>13,000</u>	
Construct Pedestrian Barricade	<u>2</u>	<u>EA</u>	\$ <u>800</u>	\$ <u>1,600</u>	
Miscellaneous Paving	<u>1</u>	<u>LS</u>	\$ <u>10,000</u>	\$ <u>10,000</u>	
Erosion Control	<u>1</u>	<u>LS</u>	\$ <u>20,000</u>	\$ <u>20,000</u>	
Relocation/Removing Misc Roadside Items	<u>1</u>	<u>LS</u>	\$ <u>10,000</u>	\$ <u>10,000</u>	
Relocate/Adjust Utilities (Pull boxes, Vaults, Fire Hydrants)	<u>4</u>	<u>LS</u>	\$ <u>1,000</u>	\$ <u>4,000</u>	

***Subtotal Section 7 Roadside Management and Safety Section* \$ 97,900**

**SUBTOTAL SECTIONS 1-7 \$ 911,930**

**Use \$ 910,000**

**PRELIMINARY PROJECT COST ESTIMATE SUMMARY**

**04-ALA-80-PM 2.50/8.00**  
**04-SCL-85-PM 18.00/24.10**  
**EA: 04-2G730K**  
**SHOPP 201.361 - ADA CURB RAMPS**

**Section 8 - Minor Items**

	<u>Unit Cost</u>	<u>Section Cost</u>
Subtotal Section 1-7	\$ 910,000	x 10% = \$ 91,000
<b><i>Subtotal Section 8 Minor Items</i></b>		<b><u>\$ 91,000</u></b>

**Section 9 - Roadway Mobilization**

Subtotal Section (1-7)	\$ 910,000	
Minor Items (8)	\$ 91,000	
Sum (1-8)	<u>\$ 1,001,000</u>	x 10% = <u>\$ 100,100</u>
<b><i>Subtotal Section 9 Roadway Mobilization</i></b>		<b><u>\$ 100,100</u></b>

**Section 10 - Roadway Additions**

***Supplemental Work***

Subtotal Sections (1-7)	\$ 910,000	
Minor Items (8)	\$ 91,000	
Sum (1-8)	<u>\$ 1,001,000</u>	x 10% = <u>\$ 100,100</u>

***Contingencies***

Subtotal Sections 1-7	\$ 910,000	
Minor Items (8)	\$ 91,000	
Sum	<u>\$ 1,001,000</u>	x 30% = <u>\$ 300,300</u>

***Subtotal Section 10 Roadway Additions*** **\$ 400,000**

**TOTAL ROADWAY ITEMS (Sections 1-10)** **\$ 1,501,000**

Estimate Prepared by: JONATHAN DANG Phone: 622-5963 Date: 9/16/2011

Estimate Checked by: HOA DANG Phone: 622-1674 Date: 9/16/2011

**PRELIMINARY PROJECT COST ESTIMATE SUMMARY**

**04-ALA-80-PM 2.50/8.00**

**04-SCL-85-PM 18.00/24.10**

**EA: 04-2G730K**

**SHOPP 201.361 - ADA CURB RAMPS**

**II. STRUCTURES ITEMS**

	Unit	Cost			
		Structure 1	Structure 2	Structure 3	Structure 4
Tie-Back Wall		-	-		
Structure Type	LS	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Structure Widening	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Concrete Removal	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Reinforced Concrete	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Shotcrete	CY	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Tiebacks	LS	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Structure Replacement					
<i>Total Cost Per Structure</i>		<b><i>\$0</i></b>	<b><i>\$0</i></b>	<b><i>\$0</i></b>	<b><i>\$0</i></b>

\* - Includes 10% mobilization and 25% contingency

\$0

Subtotal Structures Items

\$0

Railroad Related Costs

\$0

Subtotal Railroad Items

**\$ 0**

**\*TOTAL STRUCTURES ITEMS -  
(Sum of Structures plus Railroad Items)**

Comments:

\* This amount is the total cost of structures including 10% mobilization and 30% contingency.

**PRELIMINARY PROJECT COST ESTIMATE SUMMARY**

**04-ALA-80-PM 2.50/8.00**

**04-SCL-85-PM 18.00/24.10**

**EA: 04-2G730K**

**SHOPP 201.361 - ADA CURB RAMPS**

**III. RIGHT OF WAY ITEMS**

	<u>Current Values (Future Use)</u>	<u>Escalation Rates</u>	<u>Escalated Values</u>
Utility Relocation (State Share)	\$ 25,000		\$ 25,000
Title and Escrow Fees	\$ 0		\$ 0
Acquisition, including Excess Lands	\$ 0		\$ 0
<b>TOTAL RIGHT OF WAY</b>	<b>\$ 25,000</b>		<b>\$ 25,000</b>

04-ALA-80-PM 2.50/8.00  
04-SCL-85-18.00/24.10  
SHOPP 201.361  
Project ID 0400021202 (EA 2G730K)  
September 2011

## ATTACHMENT E

# **Programmatic Materials Recommendations**

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## Memorandum

*Flex your power!  
Be energy efficient!*

To: MR. PATRICK K. PANG  
District Office Chief  
Office of Advance Planning  
  
Attention: Warwick Cheung

Date: May 3, 2011

File: 04-VariouS Locations

ADA Curb Ramps and  
Pedestrian Infrastructure  
Improvement SCVP's  
Program



From: BRIAN W. BARBER  
Materials Design Engineer  
Office Of Engineering Services I - Materials B

Subject: Programmatic Materials Recommendations for District 4 ADA Projects

In response to your April 21, 2011 memorandum we provide herein are our Materials recommendations for proposed ADA projects to bring pedestrian infrastructures (curb ramps, sidewalks, driveways, etc.) within the State Highway System up to current ADA standards. This project would include ADA work at various locations in District 04 (see attachments provided by Design in the 4/21/11 request memorandum).

Specifically your office has requested we provide generic materials recommendations for primary structural elements, namely **sidewalks, curb ramps, residential and commercial driveways** for the ADA projects. We understand the projects will be re-evaluated during the next phase of the project. We also understand if additional pavement related type structures, other than the primary structural elements listed above, are to be included with these ADA projects our office will be contacted to provide additional review and design recommendations.

### **MATERIALS RECOMMENDATIONS**

#### **Structural Section-Ramps, Sidewalks, Driveways**

For Residential Use: 4" PCC; 6" AB(3)

For Commercial Use: 6" PCC; 6" AB(3)

Mr. Patrick K. Pang  
Attn: Warwick Cheung  
May 3, 2011  
Page 2

### **Curbs and Gutter Design**

Follow design standards for curbs and gutters as provided in the latest version of Caltrans Standard Plans. Select the type of curb and gutter appropriate for the site specific design requirements for use with sidewalks, ramps and driveways. We recommend a minimum **6 inches of AB(3)** base material be placed beneath the curbs and gutters.

Notes:

PCC = Portland Cement Concrete  
AB(3) = Aggregate Base-Class 3

If you have any comments or questions, please contact Brian Barber at (510) 622-5490.

c: Daily File, Route File

BBarber/dg/ADA Structural Sections-Variou 04 Locations

Attachments

BRIAN KEARNEY  
 Engineering Services I

April 21, 2011  
 Page 2

201.121 CAPM ADA Curb Ramps Improvement Projects

Program Code	CO	Rte	Beg PM	End PM	Project Location	EA	Project ID
201.121	SCL	17	6.90	9.10	SR 17 from 0.173 m south SR 9/17 separation to 0.215 m north of Lark Ave	1E0901	0400020201
201.121	SCL	85	18.45	24.06	In Sunnyvale, Mountain View on Route 85 from Rte 85/280 separation to Route 85/101 separation	0C8801	0400000192
201.121	ALA	80	2.50	8.00	From Port of Oakland OC to County Line	1G3100	0400020028
201.121	MRN	101	0.00	7.90	From the Golden Gate Br to Corte Madera Creek	0C7400	0400020590
201.121	MRN	131	4.00	4.40	Resurfacing - In Tiburon, from Mar West Street to Main Street	0G5400	0400020164
201.121	NAP	128	4.00	4.60	In Calistoga, from High Street to junction route 29 - AC resurfacing, replace culvert, drainage aprons	4C3511	0400020559

201.378 ADA Pedestrian Infrastructure Projects (Curb ramps & Sidewalks)

Program Code	CO	Rte	Beg PM	End PM	Project Location	EA	Project ID (All Phase K)
201.378	ALA	185 238	Var	Var	Ala-185-PM 0.38/0.90 and Ala-238-PM 13.01/13.12	1G890K	0400020563
201.378	ALA	13	10.1	11.1	On Route 13 from Hiller Dr. to Piedmont Ave. in City of Berkeley.	2G660K	0400021103
201.378	ALA	13	11.1	12.3	On Route 13 from Piedmont Ave. to Martin Luther King Jr. Way in City of Berkeley.	2G460K	0400020859
201.378	ALA	13	12.3	13.4	On Route 13 from Martin Luther King Jr. Way to 7th Street in City of Berkeley.	2G480K	0400020860
201.378	ALA	92	6.8	8.2	On Route 92 between Santa Clara Street and Watkins Street in the City of Hayward	1G920K	0400020591
201.378	CC ALA	123	1.9	3.4	On Route 123 from Ashby Ave. to Delaware Street in City of Berkeley	TBD	TBD
201.378	CC ALA	123 680 185	Var	Var	Ala-185-PM 3.25/9.75, CC-123-PM 0.18/0.29, & CC-680-PM 16.848	1G910K	0400020582
201.378	ALA	185	4.65	4.94	On ALA-185	TBD	TBD
201.378	ALA	238 185	2.84 9.75	9.75 10.09	In ALA County	TBD	TBD
201.378	SM	82	13.4	16.0	Burlingame Ave to Millbrae Ave.	1G900K	0400020619
201.378	SON	116	Var	Var	35 locations to be upgraded	1G840K	0400020616
201.378	MRN	101	7.30	7.40	In the city of Corte Madera	TBD	TBD
201.378	MRN	1	.65	.65	In Marin County	TBD	TBD

04-ALA-80-PM 2.50/8.00  
04-SCL-85-18.00/24.10  
SHOPP 201.361  
Project ID 0400021202 (EA 2G730K)  
September 2011

## ATTACHMENT F

# **Risk Management Plan**

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**SCVP (CAPM) PID RISK MANAGEMENT PLAN**  
 Dist.E.A.: 04-26730K  
 Co-Rte-PM: ALA-80-PM 2.50/8.00; SCL-85-PM 18 00/24.10  
**ADA COMPLIANT CURB RAMPS**

(1)	(2)	Identification				Qualitative Analysis				Response Strategy			Monitoring and Control					
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
Dormant	1	4/20/11	PID	Program/Project Management	Resources (allocated PY's) to deliver project are being reduced for FY 11/12 due to budgetary constraints	Meetings w/ Functional Units were limited to project specific issues discussion only to reduce support costs. This may possibly lead to the overlook of certain project related issues.	The PID will be amended after approval for inclusion into 2012 SHOPP.	Schedule	Moderate	Moderate		Acceptance	Elevate issue to management for resolution	Project Manager				
Dormant	2	5/16/11	PID	Right of Way	Existing underground utilities relocation(s) and new utilities installation(s) may be required.	Subject to underground utilities verifications, utility relocation(s) may be required.	Utilities verifications indicate need for utility relocation(s).	Cost	Low	Low		Acceptance	Determine needs early; factor in costs/impacts	R/W Manager Project Engineer				
Dormant	3	5/18/11	PID	Hazardous Materials	A State-approved facility, outside of state R/W, is required for disposal of contaminated and hazardous materials from minor excavation activities in unpaired areas.	There is a possible potential for encountering contaminated and hazardous materials in the project area.	The proposed project involves a limited amount of excavation work in areas that may be exposed to serially-deposited lead (ADL).	Schedule	Very Low	Very Low		Mitigation	Determine need for mitigation early; factor in increased costs/impacts.	Environmental Engineering Manager Environmental Mitigation Manager				
Dormant	4	5/18/11	PID	Environmental Engineering Air and Noise	Measures to minimize noise and dust impacts during construction are required.	The construction contract specifications and standard special provisions would include the measures to minimize the impacts.	Expected noise and dust impacts during construction are anticipated to be insignificant due to nature of construction activities.	Cost	Low	Low		Mitigation	Determine need for mitigation early; factor in increased costs/impacts.	Environmental Engineering Manager Environmental Mitigation Manager				
Dormant	5	5/16/11	PID	Stormwater Pollution Prevention Plan (SWPPP) and special provision for Non-Storm Water Discharges are required.	SWPPP and Non-Storm Water Discharges requirements would identify construction period Best Management Practices (BMPs) to avoid impacts to surface waters.	Construction activities could pollute surface water bodies or cause bank-side erosion.	Construction activities could pollute surface water bodies or cause bank-side erosion.	Cost	Low	Low		Mitigation	Determine need for mitigation early; factor in increased costs/impacts.	Environmental Engineering Manager Environmental Mitigation Manager				

**SCVP (CAPI) PID RISK MANAGEMENT PLAN**  
 Dist-E.A.: 04-2G730K  
 Co-Rte-PM: ALA-80-PM 2.50/8.00; SCL-85-PM 18.00/24.10  
**ADA COMPLIANT CURB RAMPS**

Identification				Qualitative Analysis				Response Strategy			Monitoring and Control					
Status	ID #	Date Identified Project Phase	Functional Assignment	Threat/Opportunity Event	SMART Column	Risk Trigger	Type	Probability	Impact	Risk Matrix	Strategy	Response Actions including advantages and disadvantages.	Affected WBS Tasks	Responsibility (Task Manager)	Status Interval or Milestone Check	Date, Status and Review Comments
Dormant	6	5/18/11 PID	Transportation and Traffic	A Transportation Management Plan (TMP) is required.	A detailed TMP would be developed to maintain efficient and safe movement of vehicles through the construction zone by providing advance notice to residents, motorists, and the media, to achieve public acceptance of the project and traffic mitigation measures.	Proposed construction activities are anticipated to occur within existing sidewalk area, which will mostly impact pedestrians who use the sidewalks and street parking spaces adjacent to the construction site.	Schedule Cost	Medium	Low	 VL L M H VH Impact	Mitigation	Determine need for mitigation early; factor in increased costs/impacts.		Traffic Engineer		
Active	7	5/18/11 PID	Planning/Design	Locations where pedestrian push buttons (PPBs) or traffic signals are not provided or provided with insufficient ample time for pedestrian to cross the intersection currently pose a potential safety hazard for pedestrians.	Until proposed PPBs are installed and modification to the traffic signals is performed, public safety, mobility, and accessibility requirements will not be met per this PID scope.	To address safety and accessibility issues, PPBs installed and modified as proposed in this PSR.	Schedule Scope	Medium	Medium	 VL L M H VH Impact	Acceptance	Determine need for mitigation early; factor in increased costs/impacts.		Project Manager, Project Engineer, Traffic Engineer		