



# **VERTICAL AND HORIZONTAL SURVEY CONTROL NETWORK**

**October 2010 Update**



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## **INTRODUCTION**

### **CITY BENCHMARKS - Horizontal and Vertical Control Survey**

The City has adopted the 1988 North American Vertical Datum (NAVD88) as its standard for vertical control. Prior maps, drawings and other documents in the City used the 1929 National Geodetic Vertical Datum (NGVD 29).

The City Horizontal and Vertical Control Network is comprised of 132 Benchmarks and nine (9) Horizontal / Vertical Control points. The Benchmark List is expressed in the 1988 North American Vertical Datum. Values for both US Survey Feet and Meters are provided. The Horizontal Control Point List provides horizontal values expressed in both Geodetic (Longitude / Latitude) and the 1983 North American Datum (US Survey Feet) and vertical values expressed in NAVD 88 (US Survey Feet and Meters).

Elevations expressed in the current NAVD 88 datum are generally 2.75 feet (or 0.838 meters) greater than those expressed in the former NAVD 29 datum within the City of Mountain View. This fact is important when comparing maps that may be derived from differing datums.

### **Disturbance of Horizontal and Vertical Control Points**

In accordance with Section 8771 (b) of the Professional Land Surveyors Act, when monuments exist that control the location of subdivisions, tracts, boundaries, roads, streets, or highways, or provide horizontal or vertical survey control, the monuments shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer prior to the time when any streets, highways, other rights-of-way, or easements are improved, constructed, reconstructed, maintained, resurfaced, or relocated, and a corner record or record of survey of the references shall be filed with the county surveyor. They shall be reset in the surface of the new construction, a suitable monument box placed thereon, or permanent witness monuments set to perpetuate their location if any monument could be destroyed, damaged, covered, or otherwise obliterated, and a corner record or record of survey filed with the county surveyor prior to the recording of a certificate of completion for the project.

Monuments in the City of Mountain View shall also be reset in accordance with the City of Mountain View Standard Provisions and Standard Details.

### **Recording with County Surveyor**

This horizontal and vertical control survey was recorded with the Office of the County Surveyor of Santa Clara County in March 2011.

# **City of Mountain View**

## **Vertical and Horizontal Control**

### **Final Report of Methods, Procedures, and Results**

The goal for the survey was to update the establish North American Vertical Datum 1988 (NAVD88) elevations on the existing city benchmarks and establish Geodetic Positions and coordinate values based on the North American Datum of 1983 (NAD83) for nine (9) primary control points on existing monuments. A reconnaissance survey was performed to locate the existing benchmarks. Of the 138 benchmarks outlined in the 1999 survey, 127 benchmarks were recovered. Three were deleted from the survey: (1) V-03 was not accessible to the general public; (2) IV-14 was found damaged with the brass disk removed; (3) II-21 was determined to be in an unstable location. Benchmarks II-25, IV-36 and IV-48 were not reset. Benchmarks III-15, III-57, III-59, IV-07, IV-33, V-23, V-24 and V-41 were reset and noted as such in the detailed listing. Current network includes 132 Benchmarks and 9 primary control points.

#### **Equipment:**

Trimble 4800 Dual Frequency GPS Receiver, ID#0220208250  
Trimble 4800 Dual Frequency GPS Receiver, ID#0220184850  
Trimble 5800 Dual Frequency GPS Receiver, ID#4437137805  
Trimble Survey Controller (TSC1), ID#0220208406  
Trimble Survey Controller (TSC1), ID#0000420508  
Trimble Survey Controller (TSC1), ID#SS10A04530  
Seco Precise GPS Fixed Height Tripods (3)  
Trimble DINI-12 Electronic Digital Level, ID#701578A

#### **Differential Leveling Network Methodology:**

All benchmark locations and primary control points were tied together by a closed differential leveling network. A total of 63 level loops with a total of  $\pm 160,000$  feet or 30 miles were run during the survey from April 19, 2010 through June 23, 2010. The procedure for the project was to use existing National Geodetic Survey (NGS) benchmarks, with a First Order, Stability A rating, available in the immediate area. Our research found the nearest published NAVD88 that meet the specification was in the City of Milpitas over 15 miles away. As an alternate, we utilized benchmarks established by the Santa Clara Valley Water District. The District establishes and maintains benchmarks throughout Santa Clara County as a part of their subsidence monitoring and flood control program. These benchmarks are updated every four (4) years and are based on North American Vertical Datum 1988 (NAVD88). We worked closely with Dan Gilleland of the District to obtain current adjusted values. Our survey held fixed BM149, BM204, BM227, BM232 (MVBM II-15), BM668 (MVBM II-18) and BM711 (MVBM III-60) and tied to BM688 (MVBM III-34), BM689 (MVBM III-35), BM699 (MVBM III-46) and BM703 (MVBM III-53). Datasheets are provided in **Section 1**.

The Loops were run using the Second Order Differential Leveling Survey Specifications outlined in Chapter 8 of the California Department of Transportation Survey Manual. Three main splines were run using a "Double Run" (simultaneous BS-FS/FS-BS) leveling procedure was used for collecting field data for benchmarks for three major splines. This method provides immediate feedback on quality of measurements by allowing you to repeat a measurement until set parameters are met, therefore an



instrument setup will not be vacated until quality parameters have been satisfied. The tolerance for maximum allowed of error closure between the forward and backward difference in elevation observations was set at 0.003 feet per turn. We must qualify that the type of level used for this procedure has a great track record for repeatability and accuracy. Daily calibration checks were performed at morning start of leveling work, and again during the day when conditions and temperature varied greatly from the morning calibration conditions. The set parameter for length of turns was set at 220 feet maximum. We find this length ideal for the measurements to easily meet the accuracy parameters without having to repeat many setups. This distance as a maximum is also a Caltrans requirement to achieve second order accuracy. The secondary loops were run in a single run procedure and closed on adjusted benchmarks or turning points from the major splines.

#### **Horizontal Control Methodology:**

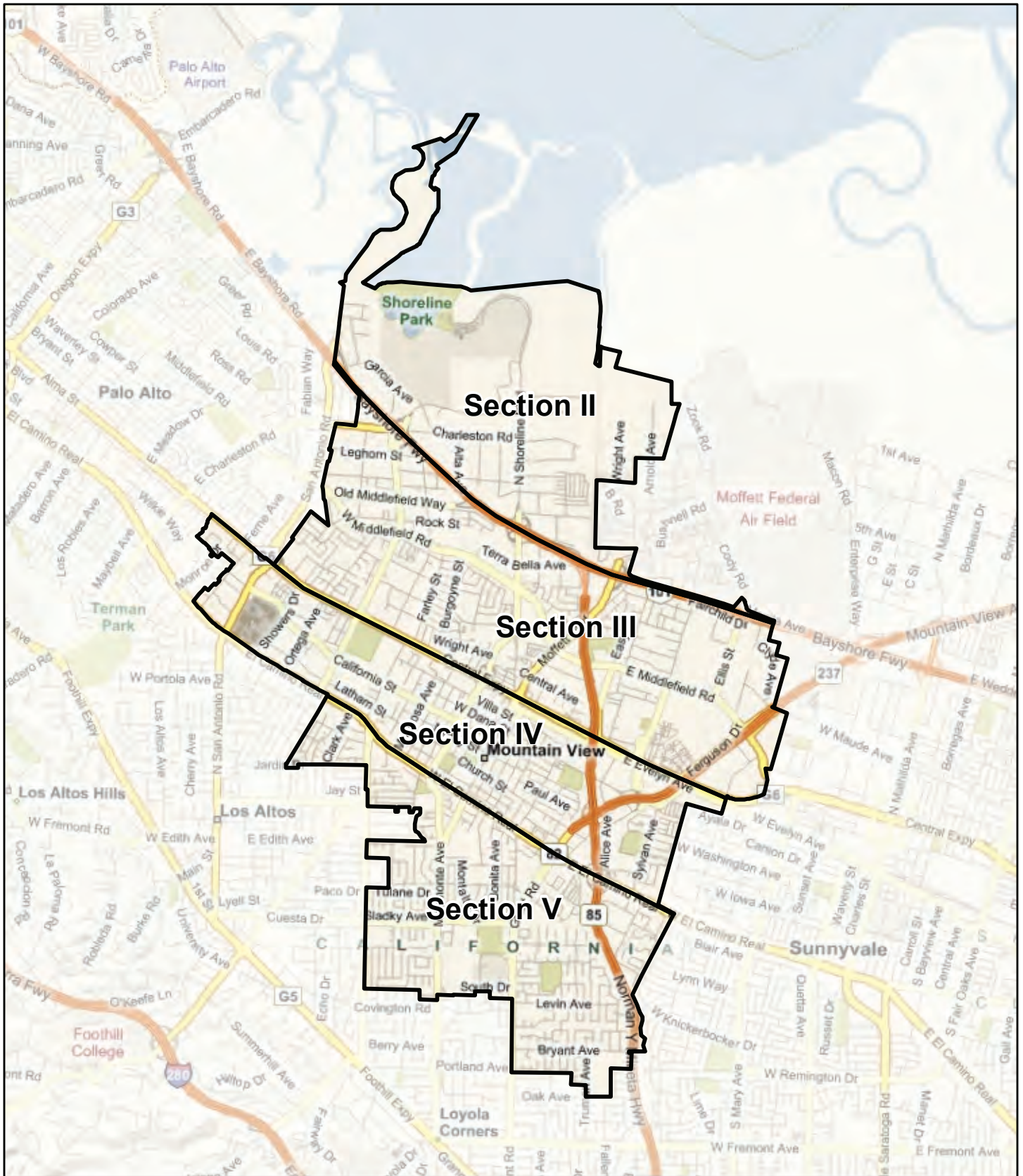
Nine (9) primary project control points were selected throughout the city. Their positions were chosen based on suitability for GPS and geometric coverage. The survey was conducted using the Horizontal First Order GPS Survey requirements outlined in Chapter 6 of the California Department of Transportation Survey Manual. The data was collected for a minimum of fifteen (15) minutes per session at five (5) second intervals. The data was then processed with the National Geodetic Surveys (NGS) Precise Ephemeris using Trimble Geomatics Office, Version 1.63. The data was then adjusted to the Height Modernization Survey Stations, maintained by NGS and the California Spatial Reference Center, control monuments OXMT, MONB, LUTZ, WIN2 using Star Net Pro, Version 6.0.31. These control stations have a published EPOCH DATE of 2007.00, NAD83. In a minimally constrained adjustment, MONB was held fixed horizontally and the NOLTE Primary Control Point No. 2 (PC2) was held vertically. In a final adjustment, the network was constrained to the control monuments OXMT, MONB, LUTZ, WIN2 and PC 2.

Respectfully Submitted:  
NOLTE ASSOCIATES, INC.



Jerome R. Jones, PLS 4922  
Expires: 12-31-2012

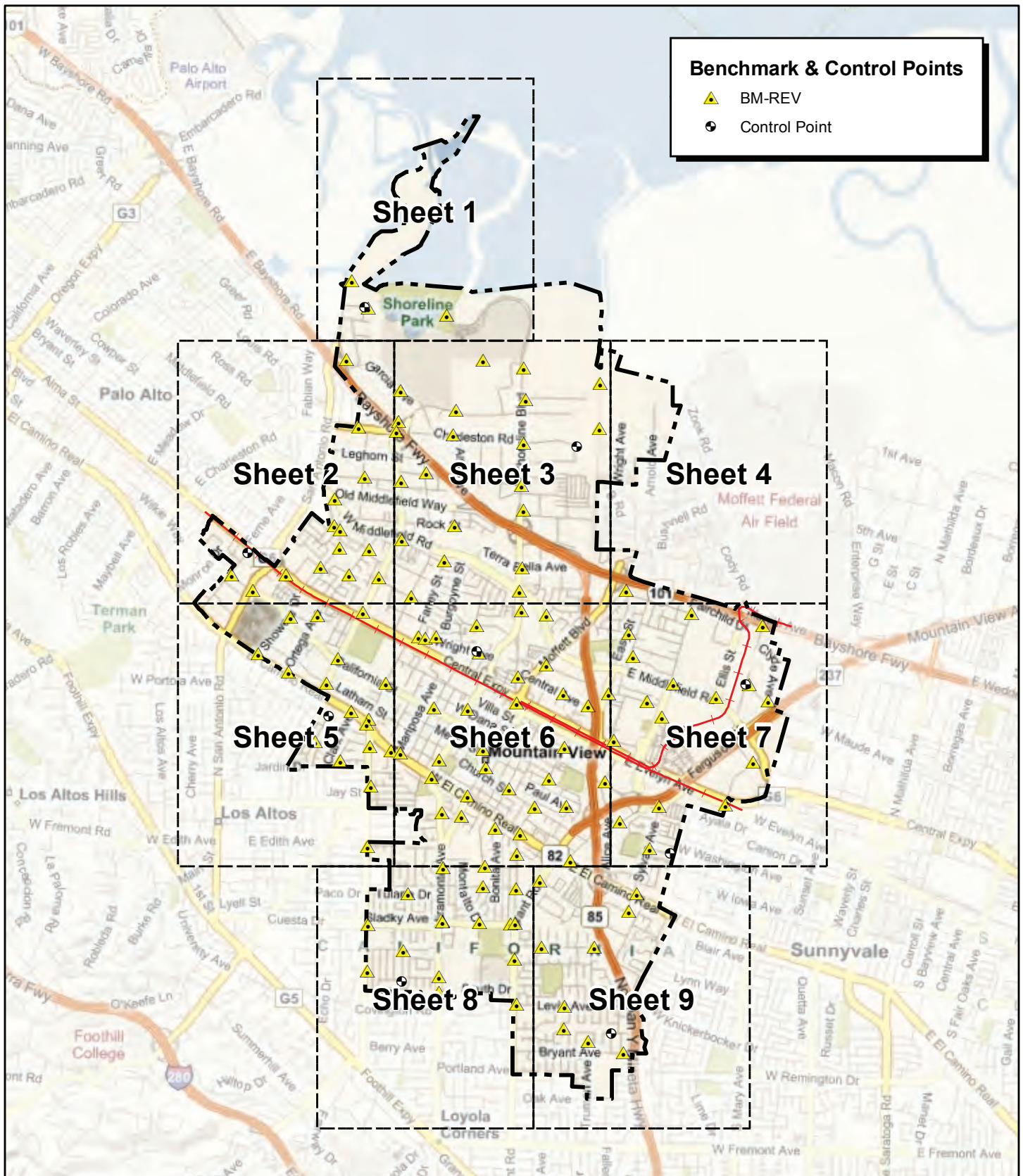




## VERTICAL SURVEY - VICINITY MAP

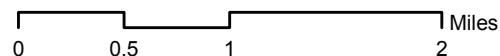
City of Mountain View  
2010 Benchmark Survey





## KEY MAP

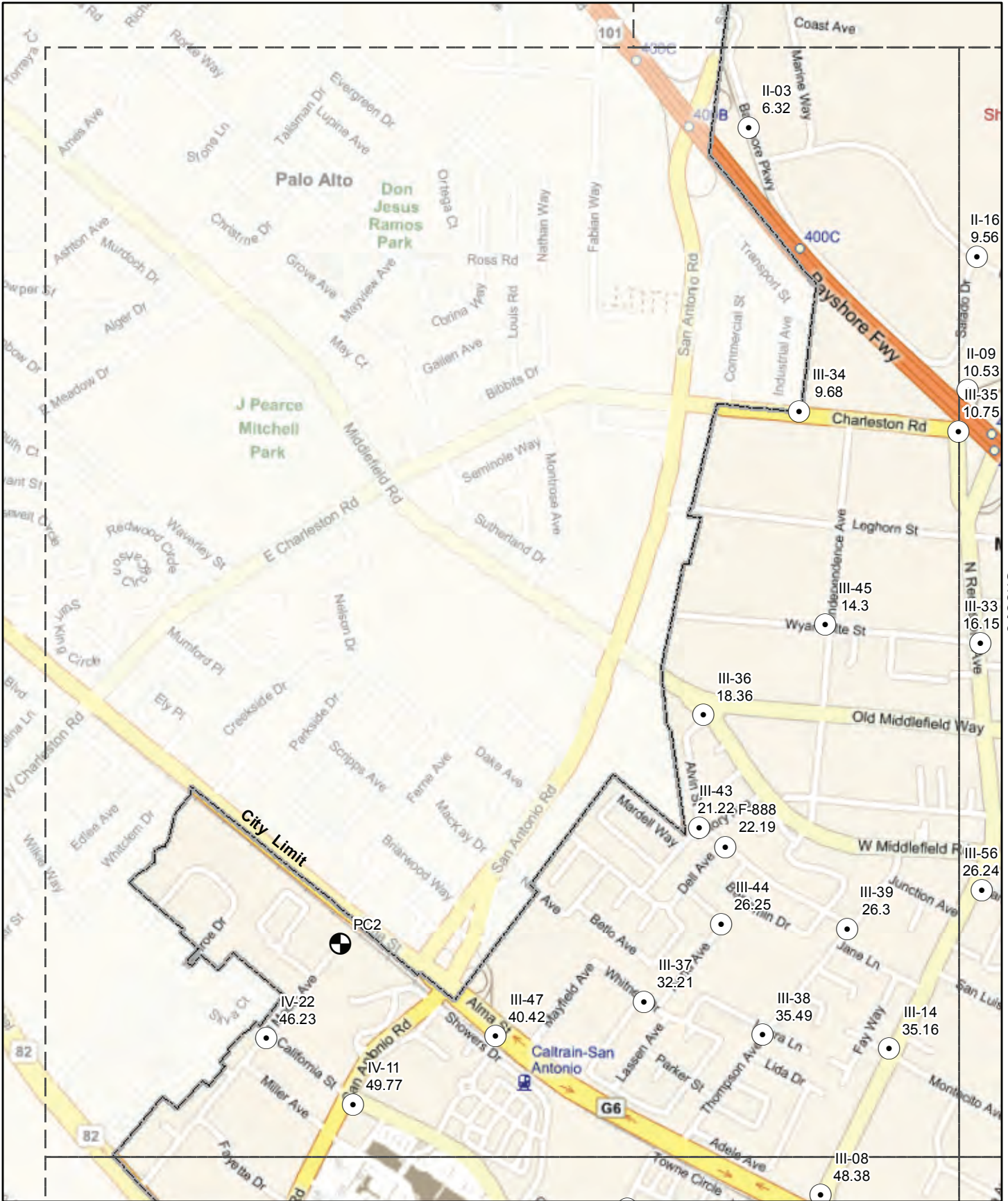
### City of Mountain View 2010 Benchmark Survey





## Sheet 1



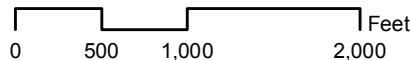


Sheet 3

Sheet 5

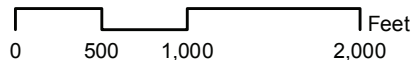
Sheet 6

## Sheet 2





## Sheet 3





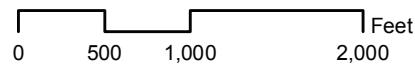
Sheet 3



Sheet 6

Sheet 7

Sheet 4

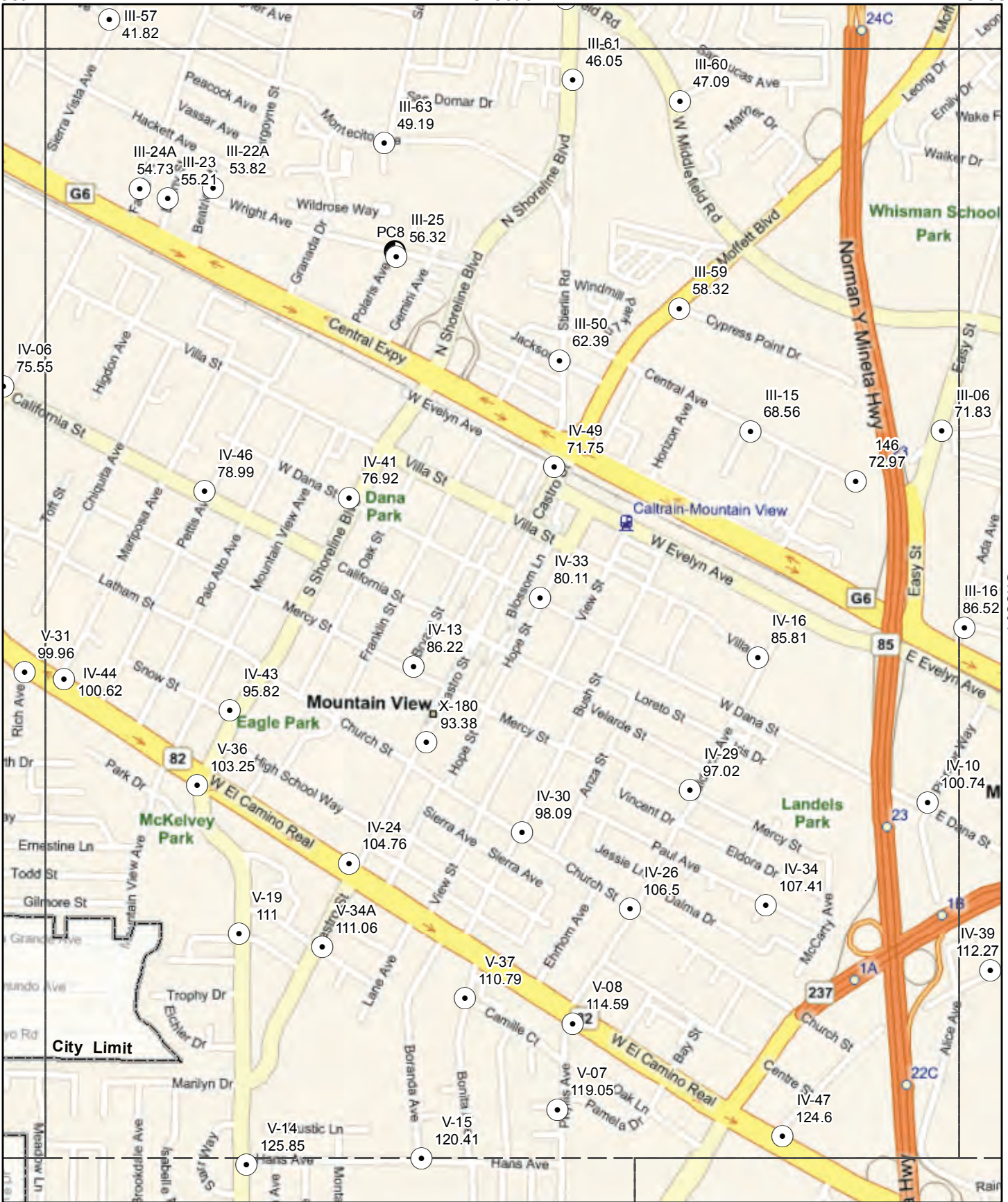




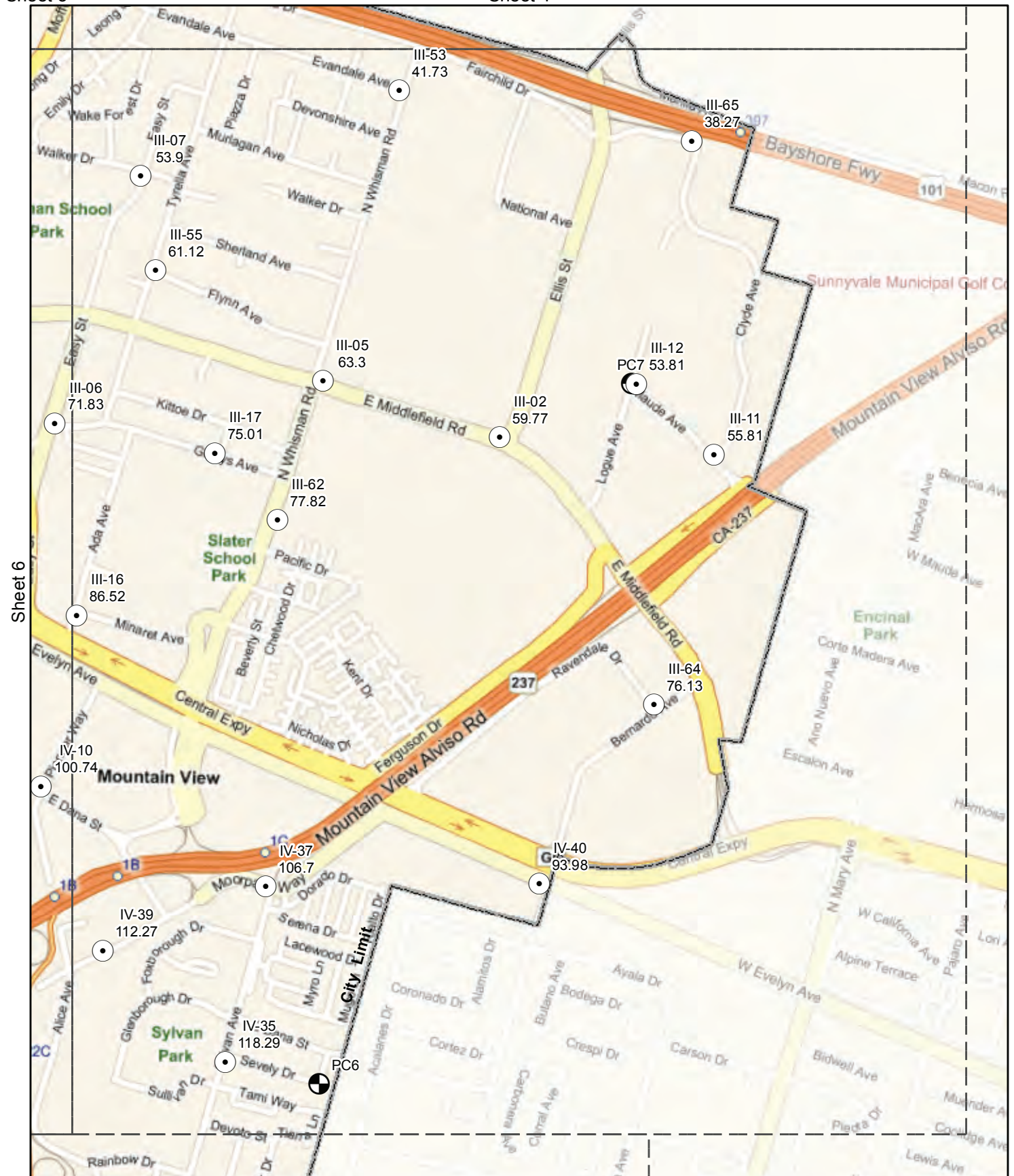
Sheet 8

## Sheet 5



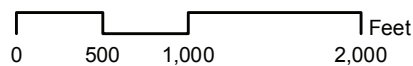












**City of Mountain View**  
**Benchmark Elevation List**

<b>Benchmark</b>	<b>Feet</b>	<b>Meters</b>	<b>Proximity:</b>
146	72.9726	22.2421	Stevens Creek / Central Avenue
D879	130.1697	39.6758	Grant Road / South of El Camino Real
F888	22.1933	6.7645	Dell Avenue / Alvin Street
U180	154.2110	47.0036	Grant Road / Eunice Avenue
X180	93.3755	28.4609	Castro Street / Church Street
II-03	6.3225	1.9271	Bayshore Parkway / Garcia Avenue
II-09	10.5279	3.2089	Bayshore Hwy Entrance / Amphitheatre Parkway
II-10R	24.8569	7.5764	North Shoreline Boulevard / L'Avenida
II-11	17.2401	5.2548	North Shoreline Boulevard / Plymouth Street
II-12	12.2762	3.7418	North Shoreline Boulevard / Charleston Road
II-13	7.6500	2.3317	North Shoreline Boulevard / Crittenden Lane
II-14	4.4540	1.3576	North Shoreline Boulevard / South of Amphitheatre Drive
II-15	20.3300	6.1966	Permanente Creek / Charleston Road
II-16	9.5648	2.9154	Salado Drive / Garcia Avenue
II-17	6.6946	2.0405	Broderick Way / Terminal Boulevard
II-18	20.4552	6.2348	Permanente Creek / Amphitheatre Parkway
II-19	10.4450	3.1840	East of Permanente Creek / Energy Trail
II-20	8.2356	2.5102	San Antonio Road North Exit / SF Bay Loop Trail
II-22	13.8390	4.2181	Charleston Slough West Levee / Charleston Slough Outer Levee
II-23	19.6025	5.9749	North Shoreline Boulevard / Shoreline Lake
II-24	23.5040	7.1640	Stevens Creek West Levee / North of Crittenden Lane
III-02	59.7670	18.2170	Ellis Street / East Middlefield Road
III-05	63.3000	19.2939	North Whisman Road / East Middlefield Road
III-06	71.8256	21.8925	Easy Street / Gladys Avenue
III-07	53.9024	16.4295	Easy Street / Walker Drive
III-08	48.3757	14.7449	North Rengstorff Avenue / North of Central Expressway
III-09	35.9033	10.9433	North Shoreline Boulevard / Terra Bella Avenue
III-11	55.8119	17.0115	Clyde Avenue / Maude Avenue
III-12	53.8135	16.4024	Logue Avenue / Maude Avenue
III-14	35.1550	10.7153	North Rengstorff Avenue / Jewell Place

Benchmark	Feet	Meters	Proximity:	
III-15	68.5600	20.8971	Reset	Andsbury Avenue / Central Avenue
III-16	86.5249	26.3728		Ada Avenue / Minaret Avenue
III-17	75.0081	22.8625		James Drive / Gladys Avenue
III-22A	53.8158	16.4031		Beatrice Street / Hetch-Hetchy South R/W
III-23	55.2105	16.8282		Bonny Street / Hetch-Hetchy North R/W
III-24A	54.7275	16.6810		Farley Street / Hetch-Hetchy North R/W
III-25	56.3209	17.1666		Polaris Avenue / Wright Avenue
III-30	16.5014	5.0296		Sierra Vista Avenue / Plymouth Street
III-33	16.1520	4.9231		North Rengstorff Avenue / Wyandotte Street
III-34	9.6809	2.9507		Industrial Avenue / East Charleston Road
III-35	10.7546	3.2780		North Rengstorff Avenue / East Charleston Road
III-36	18.3646	5.5975		Alvin Street / Middlefield Road
III-37	32.2059	9.8164		Diablo Avenue / Whitney Drive
III-38	35.4949	10.8189		Thompson Avenue / Laura Lane
III-39	26.2963	8.0151		Thompson Avenue / Alvin Street
III-41	32.3743	9.8677		Farley Street / San Ramon Avenue
III-42	27.1210	8.2665		Telford Avenue / Rock Street
III-43	21.2186	6.4674		Alvin Street / Victory Avenue
III-44	26.2474	8.0002		Anna Avenue / Elka Avenue
III-45	14.2997	4.3586		Independence Avenue / Wyandotte Street
III-46	41.1512	12.5429		Leong Drive / Evandale Avenue
III-47	40.4186	12.3196		San Antonio Road / Central Expressway
III-50	62.3870	19.0156		Stierlin Road / Jackson Street
III-53	41.7253	12.7179		North Whisman Road / Evandale Avenue
III-54	41.7044	12.7115		North Shoreline Boulevard / Middlefield Road
III-55	61.1243	18.6307		Tyrella Avenue / Flynn Avenue
III-56	26.2381	7.9974		North Rengstorff Avenue / San Ramon Avenue
III-57	41.8187	12.7464	Reset	Sierra Vista Avenue / Montecito Avenue
III-59	58.3232	17.7769	Reset	Moffett Boulevard / Cypress Point Drive
III-60	47.0900	14.3531		San Vernon Avenue / Middlefield Road
III-61	46.0497	14.0360		North Shoreline Boulevard / Mountain Shadows Drive
III-62	77.8150	23.7181		North Whisman Road / Gladys Avenue
III-63	49.1883	14.9926		Poppy Place / Montecito Avenue

Benchmark	Feet	Meters	Proximity:
III-64	76.1299	23.2044	Ravendale Drive / Bernardo Avenue
III-65	38.2707	11.6649	Clyde Avenue / Clyde Avenue
IV-02	56.1935	17.1278	Showers Drive / California Street
IV-03	80.4008	24.5062	Ortega Avenue / El Camino Real
IV-04	78.2487	23.8503	South Rengstorff Avenue / Latham Street
IV-05	66.7070	20.3323	South Rengstorff Avenue / California Street
IV-06	75.5520	23.0283	Escuela Avenue / California Street
IV-07	134.5550	41.0124	Reset Sylvan Avenue / El Camino Real
IV-10	100.7444	30.7070	Pioneer Way / Dana Street
IV-11	49.7670	15.1690	San Antonio Road / California Street
IV-12	52.0979	15.8795	Ortega Avenue / Mora Drive
IV-13	86.2180	26.2793	Bryant Street / Mercy Street
IV-16	85.8092	26.1547	Calderon Avenue / Villa Street
IV-22	46.2315	14.0914	Del Medio Avenue / California Street
IV-24	104.7610	31.9310	Castro Street / El Camino Real
IV-25	76.7886	23.4052	Showers Drive / El Camino Real
IV-26	106.5046	32.4627	Calderon Avenue / Church Street
IV-29	97.0199	29.5717	Calderon Avenue / Mercy Street
IV-30	98.0926	29.8987	Bush Street / Church Street
IV-33	80.1058	24.4163	Reset Hope Street / Dana Street
IV-34	107.4134	32.7397	Patricia Court / Paul Avenue
IV-35	118.2876	36.0541	Sylvan Avenue / Sevely Drive
IV-37	106.6996	32.5221	Sylvan Avenue / Moorpark Way
IV-39	112.2719	34.2205	Dana Street / Moorpark Way
IV-40	93.9761	28.6440	Bernardo Avenue / Evelyn Avenue
IV-41	76.9160	23.4440	South Shoreline Boulevard / Dana Street
IV-43	95.8204	29.2061	South Shoreline Boulevard / Snow Street
IV-44	100.6220	30.6696	Mariposa Avenue / El Camino Real
IV-45	88.4320	26.9541	Escuela Avenue / El Camino Real
IV-46	78.9919	24.0768	Pettis Avenue / California Street
IV-47	124.6018	37.9787	Yuba Drive / El Camino Real
IV-49	71.7451	21.8680	Castro Street / Evelyn Avenue
V-05	143.1504	43.6323	Grant Road / Cuesta Drive

Benchmark	Feet	Meters	Proximity:
V-06	129.3214	39.4172	Phyllis Avenue / Barbara Avenue
V-07	119.0501	36.2865	Phyllis Avenue / Katie Court
V-08	114.5916	34.9276	Phyllis Avenue / El Camino Real
V-09	137.8132	42.0055	Montalto Drive / Cuesta Drive
V-10	141.0323	42.9867	Miramonte Avenue / Cuesta Drive
V-10A	140.8478	42.9305	Miramonte Avenue / Cuesta Drive
V-11	125.9101	38.3775	Lola Lane / Barbara Avenue
V-13	89.8641	27.3906	Escuela Avenue / El Camino Real
V-14	125.8521	38.3598	Miramonte Avenue / Hans Avenue
V-15	120.4084	36.7006	Boranda Lane / Hans Avenue
V-16	152.2834	46.4161	South Springer Road / Cuesta Drive
V-19	111.0038	33.8340	Miramonte Avenue / Harpster Drive
V-20	114.6780	34.9539	El Monte Avenue / Lloyd Way
V-21	100.1959	30.5398	El Monte Avenue / Marich Way
V-22	114.1559	34.7948	Blackfield Way / Pilgrim Avenue
V-23	106.7329	32.5323	Reset Solana Court / Cecelia Way
V-24	151.9735	46.3216	Reset Franklin Avenue / Sleeper Avenue
V-25	149.0148	45.4198	Carol Avenue / Sleeper Avenue
V-26	135.4354	41.2808	Fordham Way / Tulane Drive
V-27	151.1089	46.0581	Fordham Way / Rose Avenue
V-28	163.5987	49.8650	South Springer Road / Birchwood Court
V-29	134.0664	40.8635	Springer Road / Marilyn Drive
V-30	159.9434	48.7508	Miramonte Avenue / Gest Drive
V-31	99.9622	30.4685	Rich Avenue / El Camino Real
V-32	183.8047	56.0238	Ivan Way / Bryant Avenue
V-34	87.1248	26.5557	Clark Avenue / El Camino Real
V-34A	111.0610	33.8515	Castro Street / Sonia Way
V-35	138.8845	42.3321	The Americana / Continental Circle
V-36	103.2501	31.4707	Miramonte Avenue / El Camino Real
V-37	110.7857	33.7675	Bonita Avenue / Camille Court
V-39	166.9488	50.8861	Grant Road / Levin Avenue
V-40	168.5943	51.3876	Levin Court / Levin Avenue
V-41	178.0124	54.2583	Reset Truman Avenue / Andre Drive



Benchmark	Feet	Meters	Proximity:
V-45	169.1221	51.5485	Miramonte Avenue / North of Yardis Court
V-46	177.4271	54.0799	Saint Giles Lane / Permanente Creek X-Channel
V-47	141.1857	43.0335	Gretel / Cuesta Drive

City of Mountain View

## Horizontal Control Point List

Control Point	Elevation (Feet)	Elevation (Meters)	Northing	Easting	Latitude	Longitude
PC1	6.675	2.035	1984236.0224	6097875.5733	37°26'00.254710"	122°05'50.736394"
PC2	40.946	12.480	1975526.7836	6093737.6777	37°24'33.455638"	122°06'40.174804"
PC3	92.169	28.093	1969769.5679	6096593.8841	37°23'37.025541"	122°06'03.557156"
PC4	158.874	48.425	1960365.6081	6099181.2207	37°22'04.495853"	122°05'29.517250"
PC5	174.537	53.199	1958515.7975	6106617.535	37°21'47.449088"	122°03'57.026147"
PC6	117.014	35.666	1964874.2392	6108699.8327	37°22'50.651730"	122°03'32.548044"
PC7	54.154	16.506	1970868.7013	6111375.2992	37°23'50.351828"	122°03'00.633596"
PC8	55.742	16.990	1972038.2953	6101854.597	37°24'00.338588"	122°04'58.850204"
PC9	11.787	3.593	1979287.0483	6105397.6837	37°25'12.589205"	122°04'16.454155"



## **Section I**

# **Reference Benchmarks**

National Geodetic Surveys (146, D897, F888, U180, X180)  
SCVWD Benchmarks (BM149, BM204, BM227, BM232, BM668, BM688, BM689,  
BM699, BM703, BM711)

Elevation Feet:	72.973
Elevation Meters:	22.242
Adjusted:	2010
Datum:	NAVD 1988

Description:

Brass disk stamped "SCVWD BM146" set in the top of curb at the end of Central Avenue cul-de-sac adjacent to Electrolier No. 20069

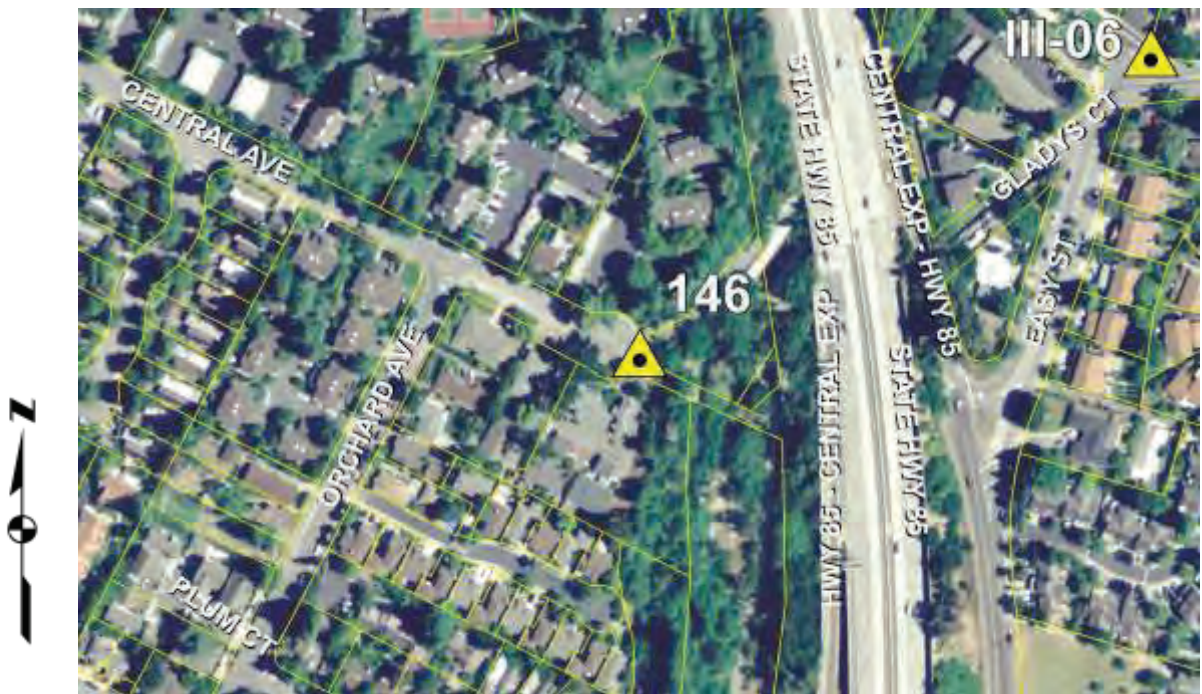
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**D879**

Elevation Feet:	130.170
Elevation Meters:	39.676
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "National Geodetic Surveys Vertical Control Mark D879" set in the top of curb on the west side of Grant Road, 0.2 miles south of El Camino Real opposite Bentley Square

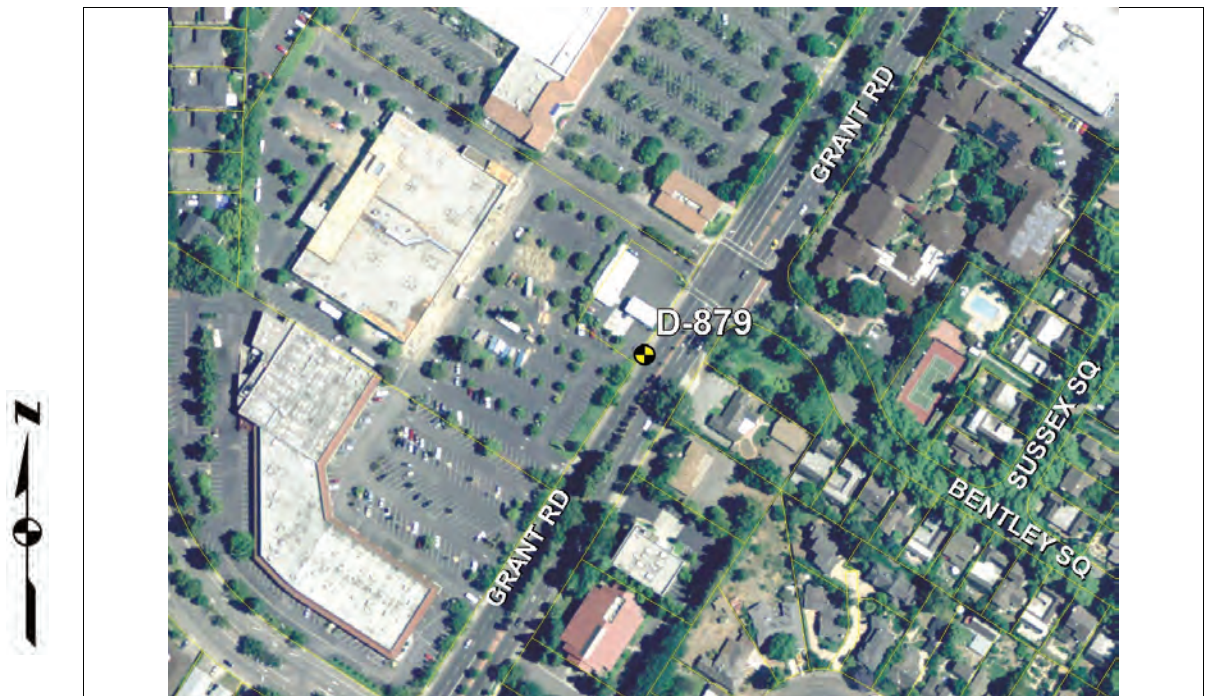
Site Photo



Point Photo



Location Photo





Elevation Feet:	22.193
Elevation Meters:	6.765
Adjusted:	2010
Datum:	NAVD 1988

Description:

U.S.C. & G.S. brass disk set in top of curb at the end of the southeast return of Alvin Street at Dell Avenue.  
Set 1948, reset 1953

Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**U180**

Elevation Feet:	154.211
Elevation Meters:	47.004
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "National Geodetic Surveys Vertical Control Mark U180" set in the top of a concrete base of Electrolier No 17939 on the west side of Grant Road 140'± north of Eunice Avenue

Site Photo



Point Photo



Location Photo







Vertical Control

Benchmark:

**X180**

Elevation Feet:	93.376
Elevation Meters:	28.461
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-08" set in the sidewalk on the east side of the 500 block of Castro Street. Same as IV-08

Site Photo



Point Photo



Location Photo





# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

**Point ID** **BM149**

**Projects** STEVENS CREEK,BM  
MAINTENANCE 1,HEIGHT  
MOD

**Organization** SCVWD

**Yellow Book** 47

**Date Adjusted** 05/04/2010

**Date Measured** 07/11/2006

**Elev(NAVD88FT)** 131.06

**Based On** NGS/CS  
RC

**Datum** 2009

**Order** 2

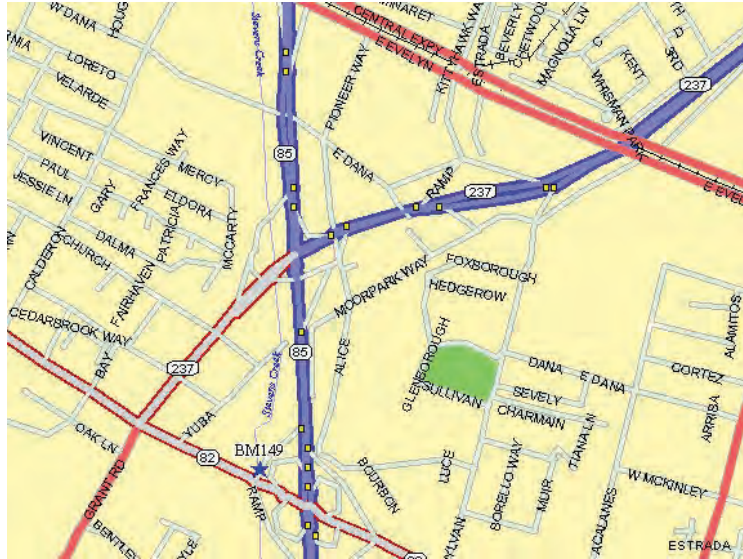
**Class** 2

**Latitude** 37 22 44.74 N

**Longitude** 122 04 11.05 W

**Northing** 1964328.866

**Easting** 6105582.611



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS NOT ACCURATE \*\***

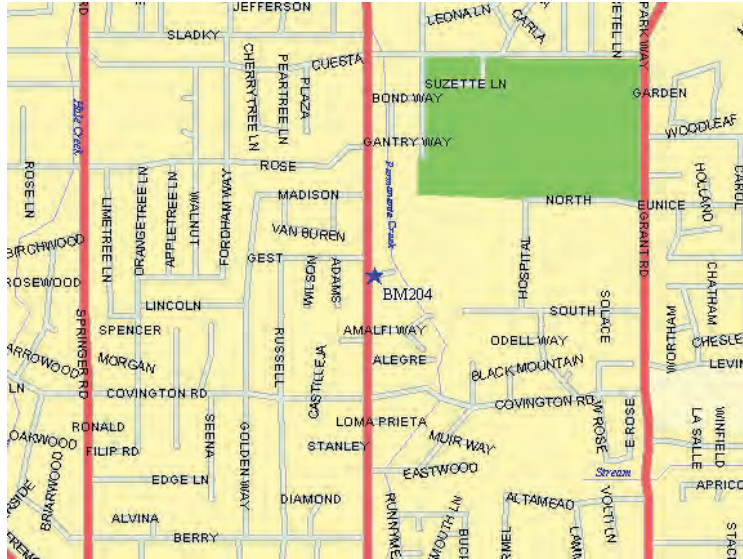
Brass disk on North side of El Camino Real in back of bridge sidewalk at the westerly corner of El Camino Real bridge over Stevens Creek. City of Mountain View.

[Get Directions](#)

## Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

<b>Point ID</b>	<b>BM204</b>
<b>Projects</b>	PERMANENTE CREEK,BM MAINTENANCE 1,HEIGHT MOD
<b>Organization</b>	SCVWD
<b>Yellow Book</b>	47
<b>Date Adjusted</b>	05/04/2010
<b>Date Measured</b>	07/11/2006
<b>Elev(NAVD88FT)</b>	158.81
<b>Based On</b>	NGS/CS RC
<b>Datum</b>	2009
<b>Order</b>	2
<b>Class</b>	2
<b>Latitude</b>	37 22 08.626 N
<b>Longitude</b>	122 05 12.576 W
<b>Northing</b>	1960760
<b>Easting</b>	6100556



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS NOT ACCURATE \*\***

Brass disk in top of curb at the Northwesterly corner of entrance road bridge to St. Francis High School over Permanent Creek. Station is on the East side of Miramonte Avenue.

[Get Directions](#)

## Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

<b>Point ID</b>	<b>BM227</b>
<b>Projects</b>	PERMANENTE CREEK,BM MAINTENANCE 1,HEIGHT MOD
<b>Organization</b>	SCVWD
<b>Yellow Book</b>	32
<b>Date Adjusted</b>	05/04/2010
<b>Date Measured</b>	07/11/2006
<b>Elev(NAVD88FT)</b>	78.14
<b>Based On</b>	NGS/CS RC
<b>Datum</b>	2009
<b>Order</b>	2
<b>Class</b>	2
<b>Latitude</b>	37 23 45.714 N
<b>Longitude</b>	122 05 31.848 W
<b>Northing</b>	1970605
<b>Easting</b>	6099167



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS NOT ACCURATE \*\***

Brass disk near the Southeasterly corner of the Northeast headwall at California Avenue and Permanente Creek. City of Mountain View.

[Get Directions](#)



# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

**Point ID** **BM232**

**Projects** PERMANENTE CREEK,BM  
MAINTENANCE 1,HEIGHT  
MOD

**Organization** SCVWD

**Yellow Book** 32

**Date Adjusted** 05/04/2010

**Date Measured** 07/11/2006

**Elev(NAVD88FT)** 20.33

**Based On** NGS/CS  
RC

**Datum** 2009

**Order** 2

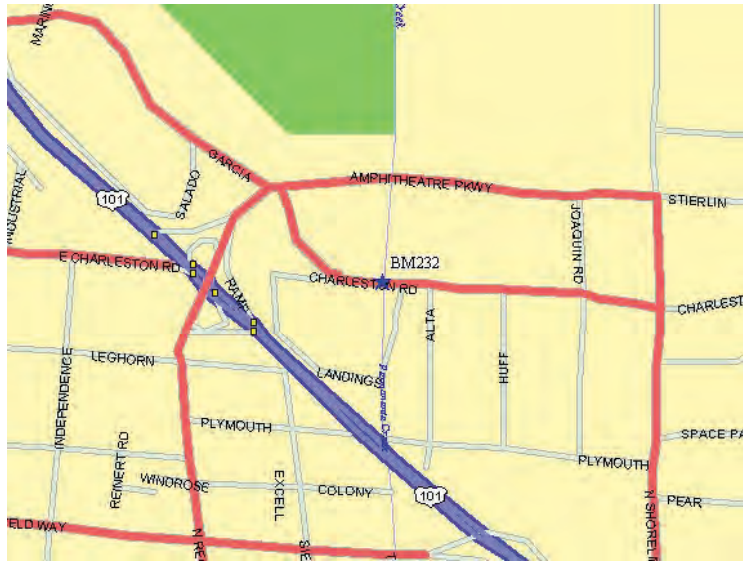
**Class** 2

**Latitude** 37 25 16.031 N

**Longitude** 122 05 11.809 W

**Northing** 1979710

**Easting** 6100939



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS NOT ACCURATE \*\***

Brass disk at the Eastern end of the Northerly headwall at Charleston Road over Permanente Creek. City of Mountain View.

[Get Directions](#)

# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

**Point ID** **BM668**

**Projects** PERMANENTE CREEK,BM  
MAINTENANCE 1,HEIGHT  
MOD

**Organization** SCVWD

**Yellow Book** 17

**Date Adjusted** 05/04/2010

**Date Measured** 07/11/2006

**Elev(NAVD88FT)** 20.45

**Based On** NGS/CS  
RC

**Datum** 2009

**Order** 2

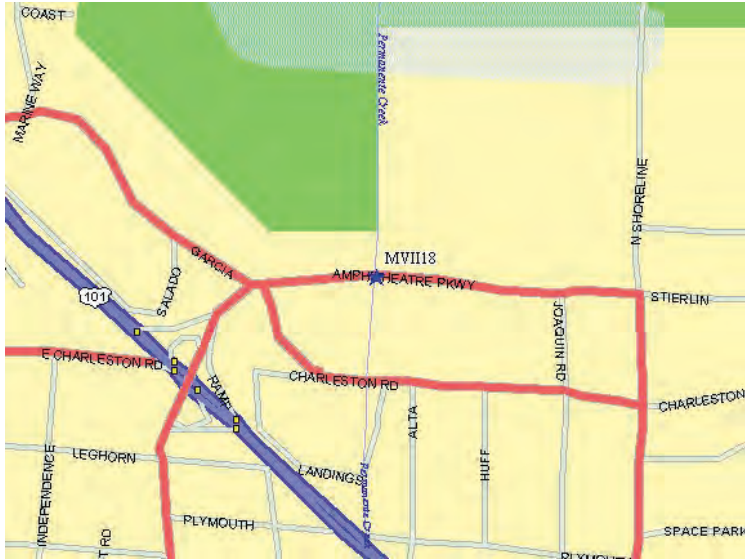
**Class** 2

**Latitude** 37 25 24.524 N

**Longitude** 122 05 10.942 W

**Northing** 1980568

**Easting** 6101023



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS NOT ACCURATE \*\***

City of Mountain View's brass disk (MVII18). On top of curb; at the northeasterly corner of bridge crossing for Amphitheater Parkway over Permanente Creek . Disk is not stamped. City of Mountain View.

[Get Directions](#)

# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

Point ID **BM688**

Projects CROSS VALLEY LEVEL  
CIRCUIT,BM MAINTENANCE  
1,CVLC LOS ALTOS,HEIGHT  
MOD

Organization SCVWD

Yellow Book 32

Date Adjusted 05/04/2010

Date Measured 07/11/2006

Elev(NAVD88FT) 9.67

Based On NGS/CS  
RC

Datum 2009

Order 2

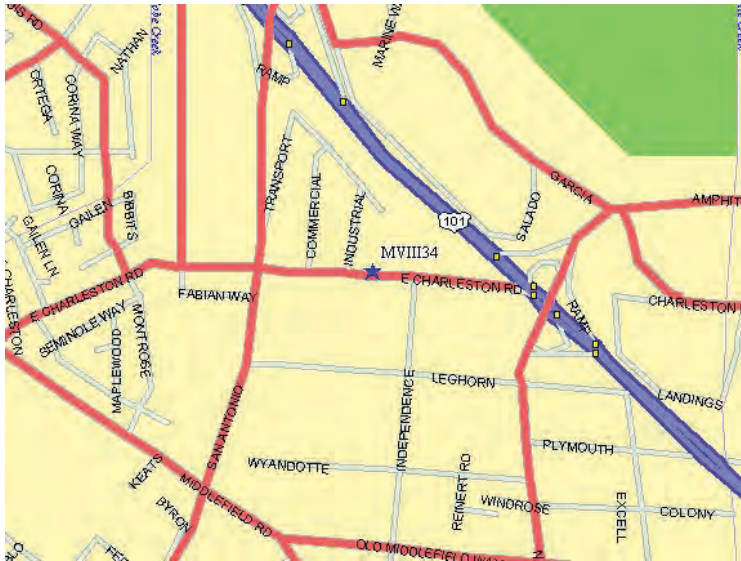
Class 2

Latitude 37 25 18.25 N

Longitude 122 05 53.50 W

Northing 1979992

Easting 6097580



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS  
NOT ACCURATE \*\***

Brass disk (MVIII34); 2-1/2 inch diameter; stamped " CITY OF MTN VIEW BM NO III34"; on top of curb, on northerly side of East Charleston Road; 189 feet east of centerline for Industrial Drive; Address is 1001 East Charleston Road . City of Mountain View.

[Get Directions](#)



# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

Point ID **BM689**

Projects CROSS VALLEY LEVEL  
CIRCUIT,BM MAINTENANCE  
1,CVLC LOS ALTOS,HEIGHT  
MOD

Organization SCVWD

Yellow Book 32

Date Adjusted 05/04/2010

Date Measured 02/13/2003

Elev(NAVD88FT) 10.75

Based On NGS/CS  
RC

Datum 2009

Order 2

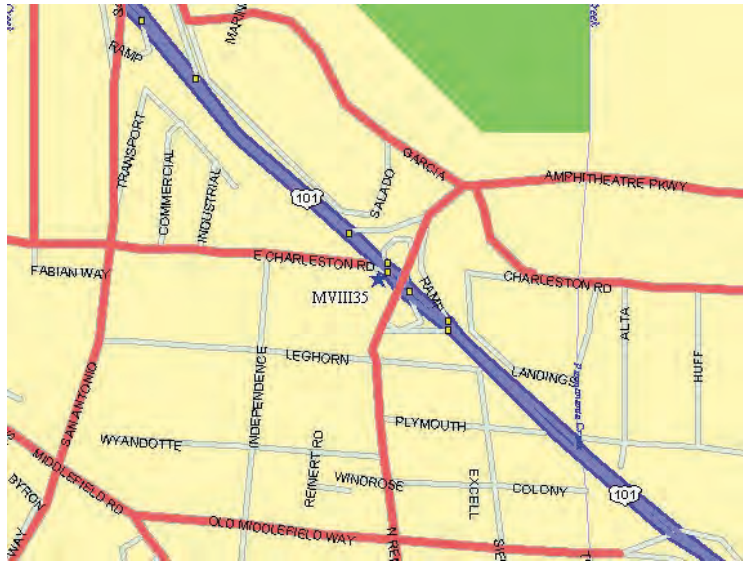
Class 2

Latitude 37 25 16.81 N

Longitude 122 05 37.01 W

Northing 1979824

Easting 6098908



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS  
NOT ACCURATE \*\***

Brass disk; 2-1/2 inch diameter; stamped "MTN VIEW BM NO III35"; on top of curb; at west end of triangular traffic island; at intersection of Charleston Road and Bayshore Freeway. City of Mountain View.

[Get Directions](#)

# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

Point ID **BM699**

Projects CROSS VALLEY LEVEL  
CIRCUIT,BM MAINTENANCE  
1,CVLC LOS ALTOS,HEIGHT  
MOD

Organization SCVWD

Yellow Book 33

Date Adjusted 05/04/2010

Date Measured 07/11/2006

Elev(NAVD88FT) 41.13

Based On NGS/CS  
RC

Datum 2009

Order 2

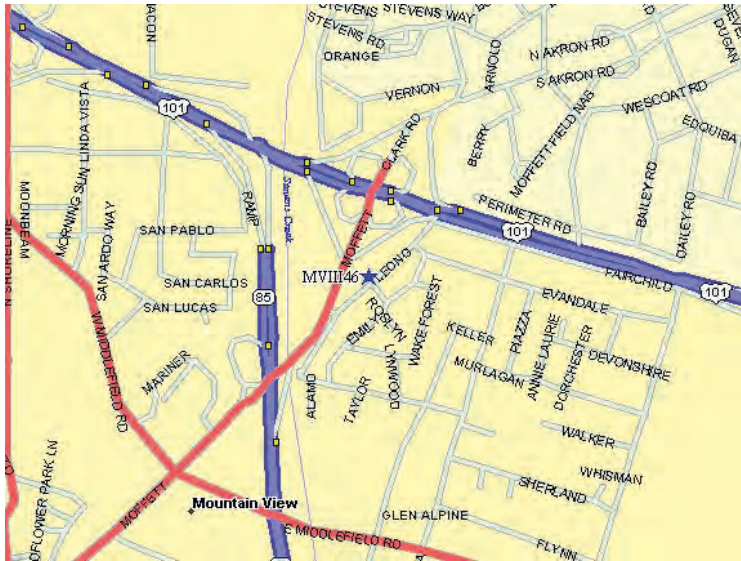
Class 2

Latitude 37 24 22.47 N

Longitude 122 03 55.00 W

Northing 1974190

Easting 6107044



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS  
NOT ACCURATE \*\***

CITY OF MTN VIEW's brass disk (MVIII46); on top of curb; on Leong Drive opposite Evandale Avenue. City of Mountain View.

[Get Directions](#)



# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

**Point ID**      **BM703**

**Projects**      CROSS VALLEY LEVEL  
CIRCUIT,BM MAINTENANCE  
2,HEIGHT MOD

**Organization**      SCVWD

**Yellow Book**      33

**Date Adjusted**      05/04/2010

**Date Measured**      07/11/2006

**Elev(NAVD88FT)**      41.72

**Based On**      NGS/CS  
RC

**Datum**      2009

**Order**      2

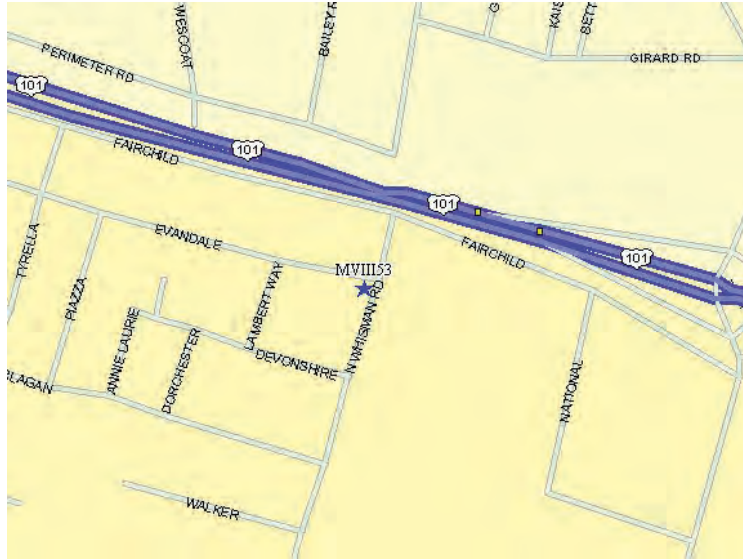
**Class**      2

**Latitude**      37 24 15.06 N

**Longitude**      122 03 25.85 W

**Northing**      1973400.93

**Easting**      6109382.066



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS NOT ACCURATE \*\***

Bronze disk (MVIII53); on top of curb under street stop sign at the southwest corner of Evandale Avenue and Whisman Road. City of Mountain View.

[Get Directions](#)

# Santa Clara Valley Water District Vertical Database Report

Historical Report for: 10/18/10

Point ID **BM711**

Projects CROSS VALLEY LEVEL  
CIRCUIT,BM MAINTENANCE  
1,CVLC LOS ALTOS,HEIGHT  
MOD

Organization SCVWD

Yellow Book 32

Date Adjusted 05/04/2010

Date Measured 07/11/2006

Elev(NAVD88FT) 47.09

Based On NGS/CS  
RC

Datum 2009

Order 2

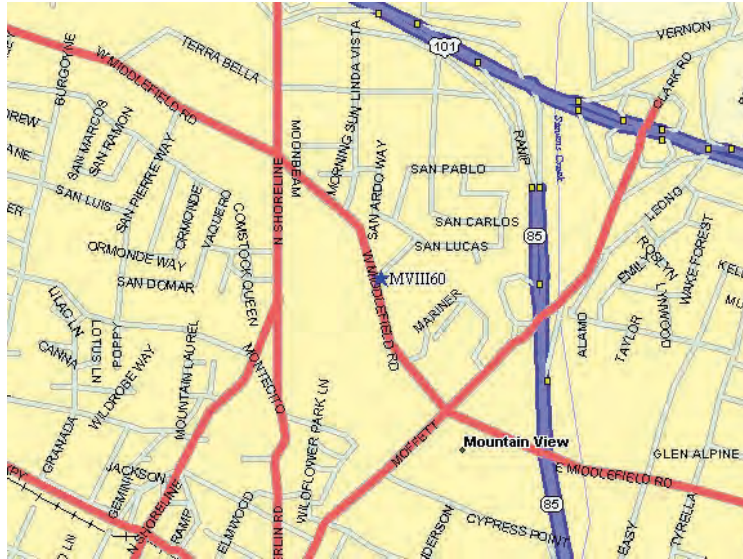
Class 2

Latitude 37 24 13.24 N

Longitude 122 04 29.58 W

Northing 1973303

Easting 6104238



**\*\* CAUTION: THE HORIZONTAL LOCATION SHOWN IS  
NOT ACCURATE \*\***

CITY OF MTN VIEW's brass disk (MVIII60); on top and at center of curb return; on the northeast corner of San Veron Avenue and West Middlefield Road. Disk is stamped "MTN VIEW BM NO IV16". City of Mountain View.

[Get Directions](#)



## **Section II**

### **North Area**

**(Bayshore Freeway to South San Francisco Bay)**



Elevation Feet:	6.323
Elevation Meters:	1.927
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "II-03" set in top of curb on south side of frontage road which runs parallel to and north of Bayshore Freeway, 300'+/- northwest of Garcia Avenue

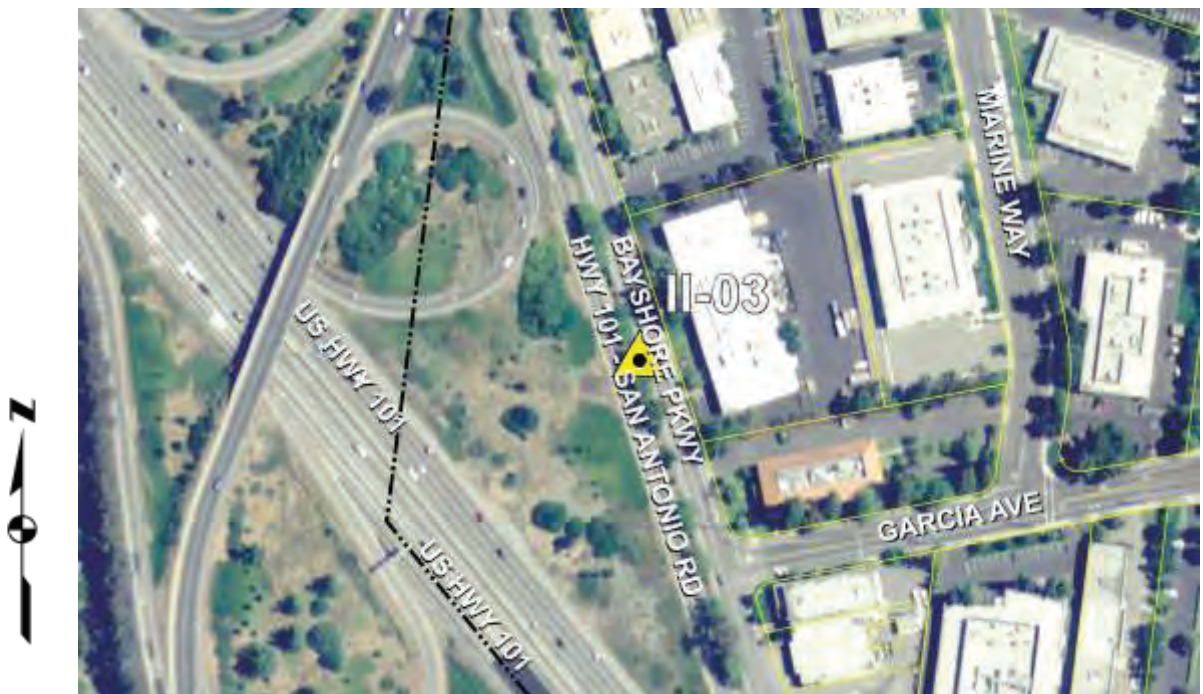
Site Photo



Point Photo



Location Photo



Elevation Feet:	10.528
Elevation Meters:	3.209
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Top of northwest anchor bolt stamped "II-09" on base of electrolier No. D01319 at the northbound (S.F.) entrance ramp to Bayshore Freeway from the North Frontage Road west of (Rengstorff Avenue or) Amphitheatre Parkway overpass.

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **II-10R**

Elevation Feet:	24.857
Elevation Meters:	7.576
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "II-10R" set in top of curb, center of return at the northeast corner of L'Avenida and North Shoreline Boulevard

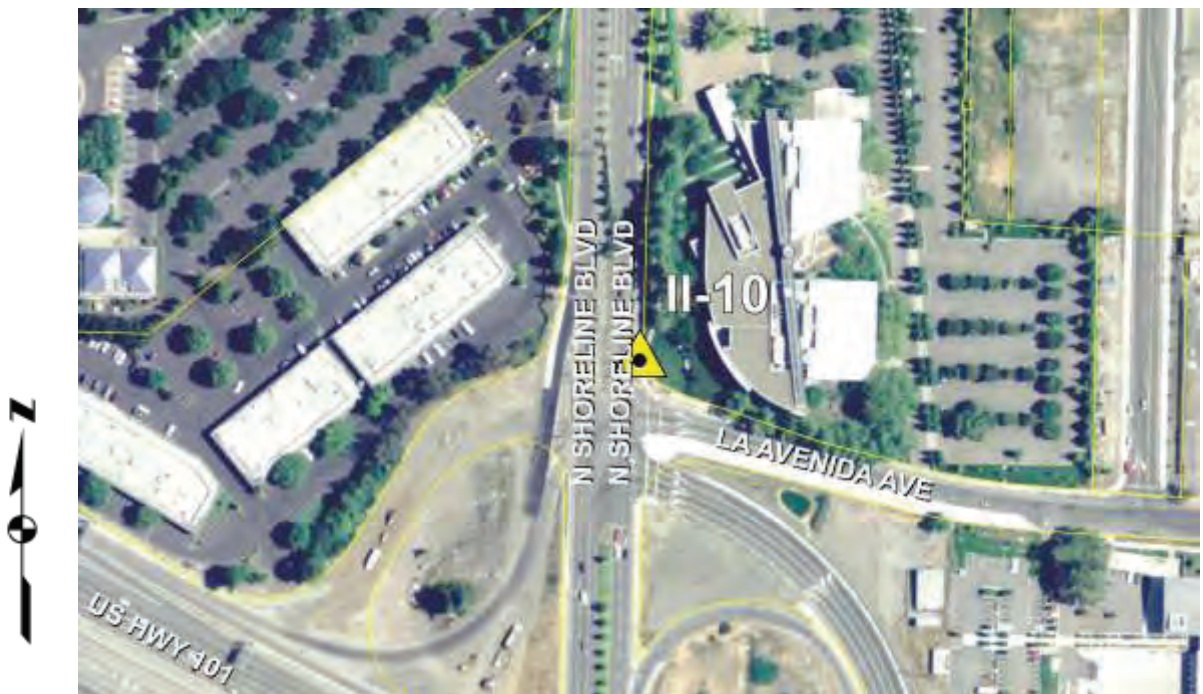
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**II-11**

Elevation Feet:	17.240
Elevation Meters:	5.255
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Brass disk stamped "II-11" set in top of curb at the southwest return of Plymouth Street and North Shoreline Boulevard

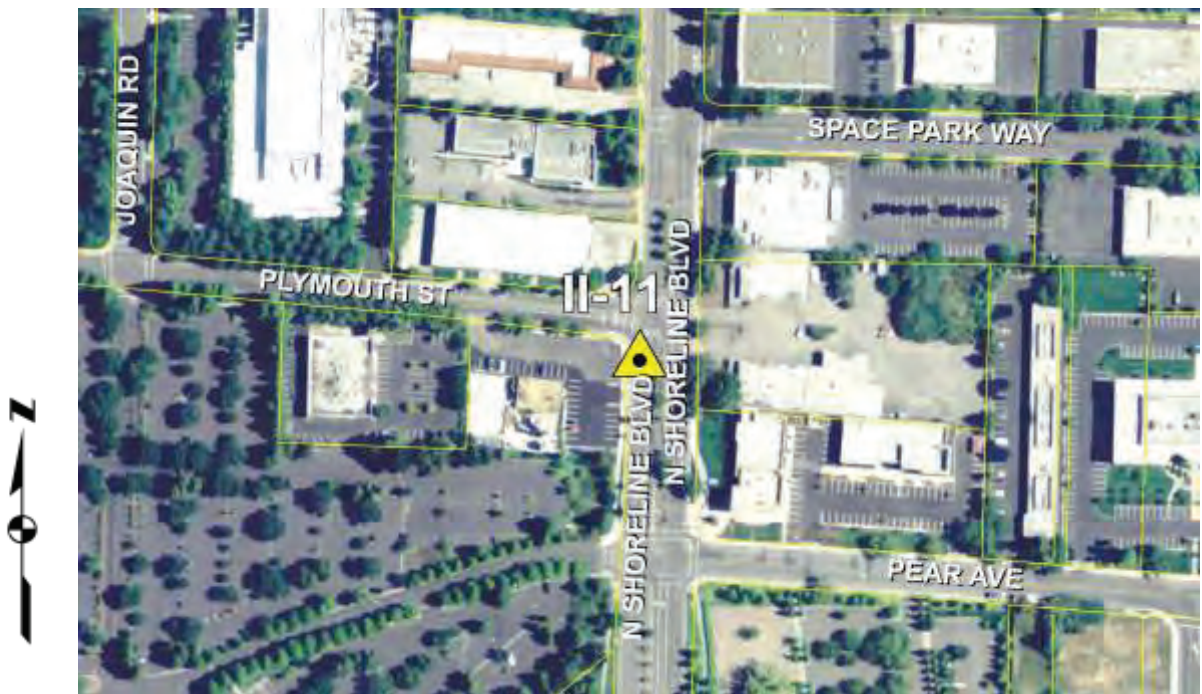
Site Photo



Point Photo



Location Photo



Elevation Feet:	12.276
Elevation Meters:	3.742
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-12" set in top of curb at the southwest return of Charleston Road and North Shoreline Boulevard

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**II-13**

Elevation Feet:	7.650
Elevation Meters:	2.332
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-13" set in top of curb 20' south of the southeast return of North Shoreline Boulevard and Crittenden Lane

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**II-14**

Elevation Feet:	4.454
Elevation Meters:	1.358
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-14" set in top of curb on the west side of North Shoreline Boulevard opposite entrance to Crittenden site 6' north of catch basin.

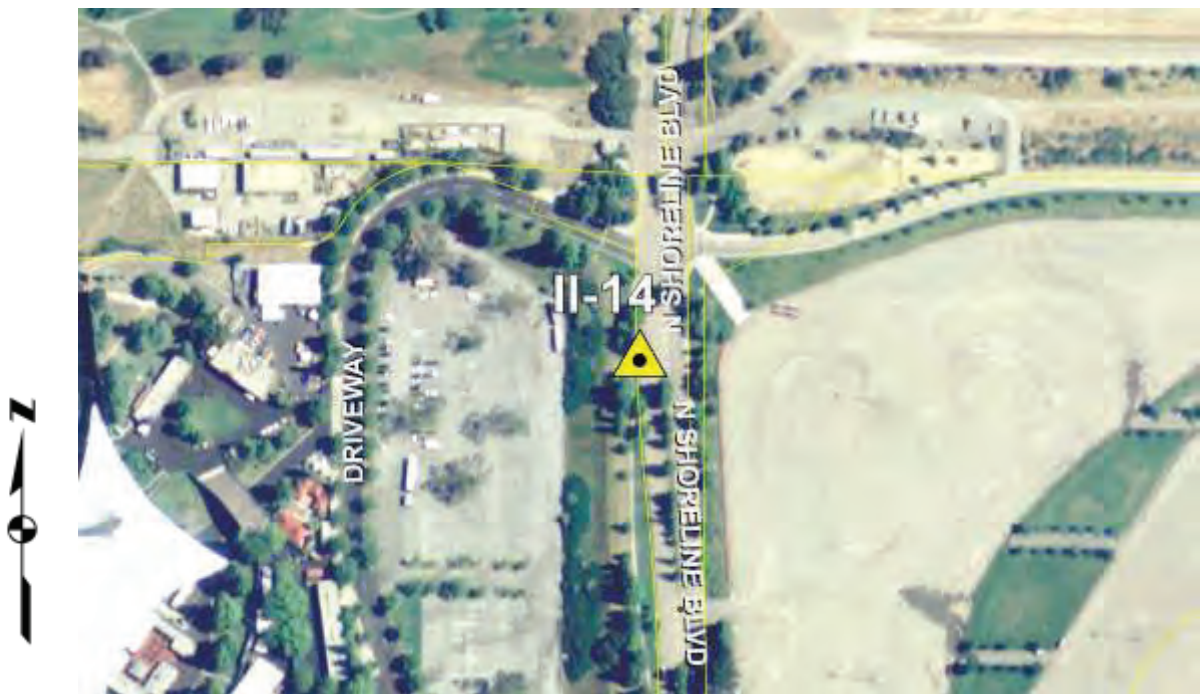
Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark:

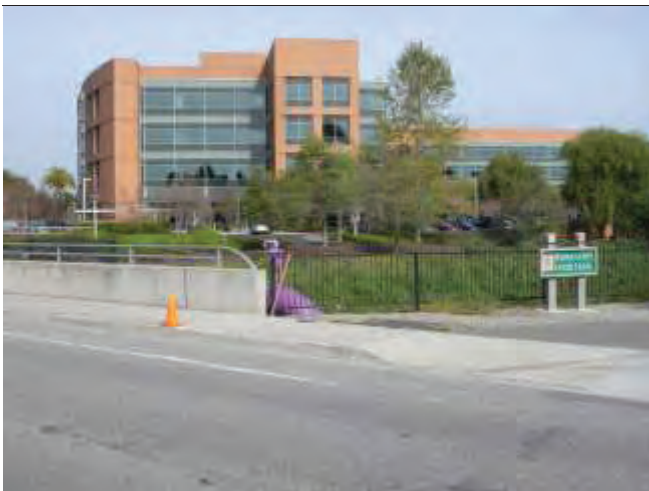
**II-15**

Elevation Feet:	20.330
Elevation Meters:	6.197
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-15" set in top of curb on the north and easterly side of the bridge across Permanente Creek on Charleston Road.

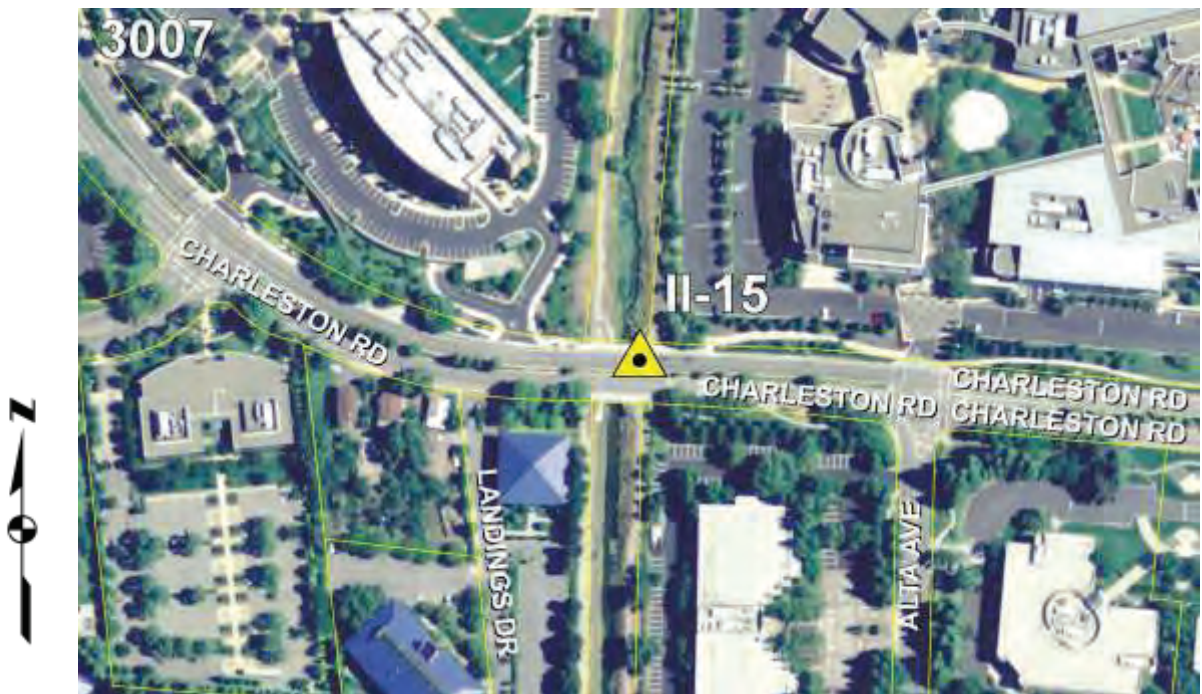
Site Photo



Point Photo



Location Photo





Elevation Feet:	9.565
Elevation Meters:	2.915
Adjusted:	2010
Datum:	NAVD 1988

Description:

Brass disk stamped "II-16" set in top of curb on the northerly side of Garcia Avenue opposite Salado Drive at Electrolier No. 22929

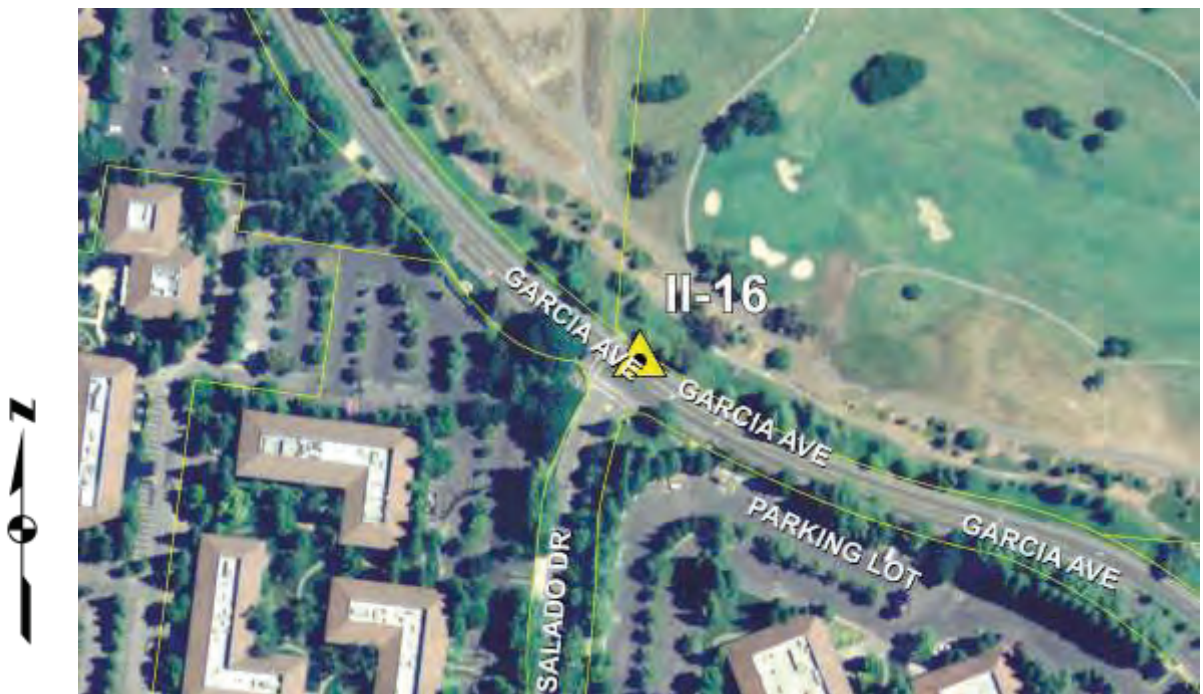
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**II-17**

Elevation Feet:	6.695
Elevation Meters:	2.041
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-17" set in top of curb on the south side of Terminal Boulevard at the southeast corner of Broderick Way at Electrolier No. 22961

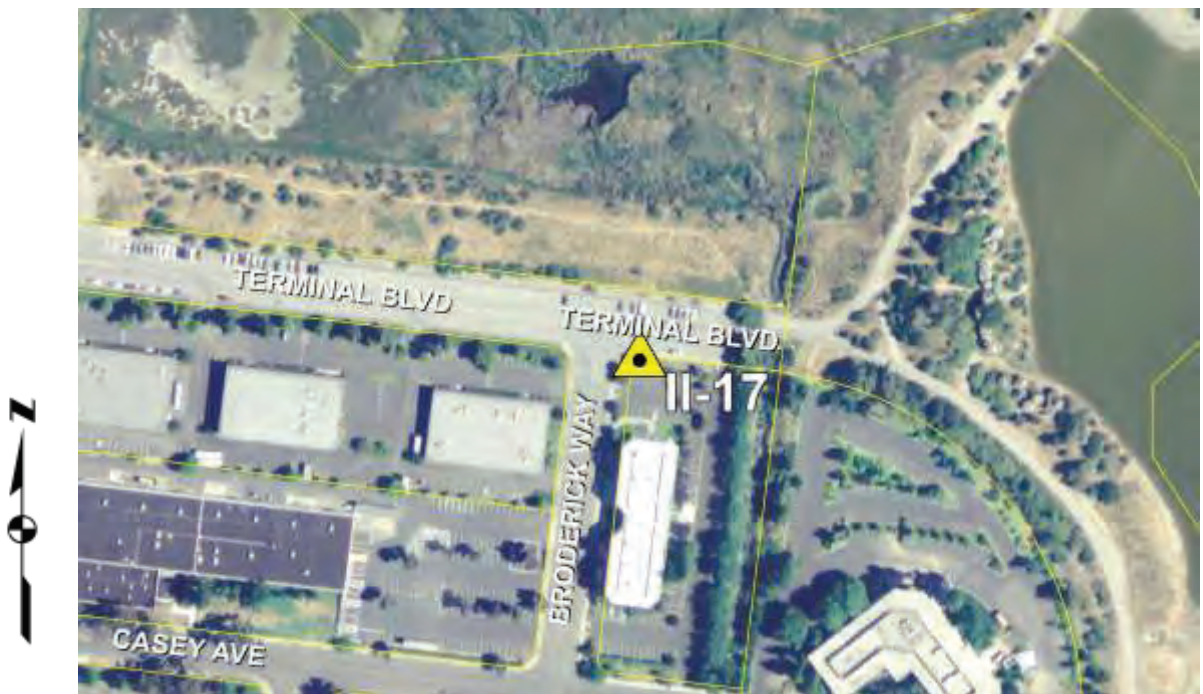
Site Photo



Point Photo



Location Photo



Elevation Feet:	20.455
Elevation Meters:	6.235
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-18" set in top of curb on the north and easterly side of the bridge across Permanente Creek on Amphitheatre Parkway

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**II-19**

Elevation Feet:	10.445
Elevation Meters:	3.184
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "II-19" set in top of foundation on the northwest corner of the Shoreline at the Mountain View Flare Station, located  $\pm 1400'$  west of Shoreline Boulevard on energy trail

Site Photo



Point Photo



Location Photo





Elevation Feet:	8.236
Elevation Meters:	2.510
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "II-20" in the top of foundation of the southeast corner of the Coast-Casey Storm Pump Station, located north of Terminal Boulevard in Shoreline at Mountain View Park

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark:

**II-22**

Elevation Feet:	13.839
Elevation Meters:	4.218
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "CITY OF MOUNTAIN VIEW II-22" ON EAST CORNER OF LIGHT STANDARD #3A002 in parking lot of Shoreline Lake due east of (sailing school) Boathouse

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**II-23**

Elevation Feet:	19.603
Elevation Meters:	5.975
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "CITY OF MTN VIEW II-23" on the northeast pier of the first transmission tower west of levee, north of Crittenden Lane Bridge over Stevens Creek on western levee of Stevens Creek

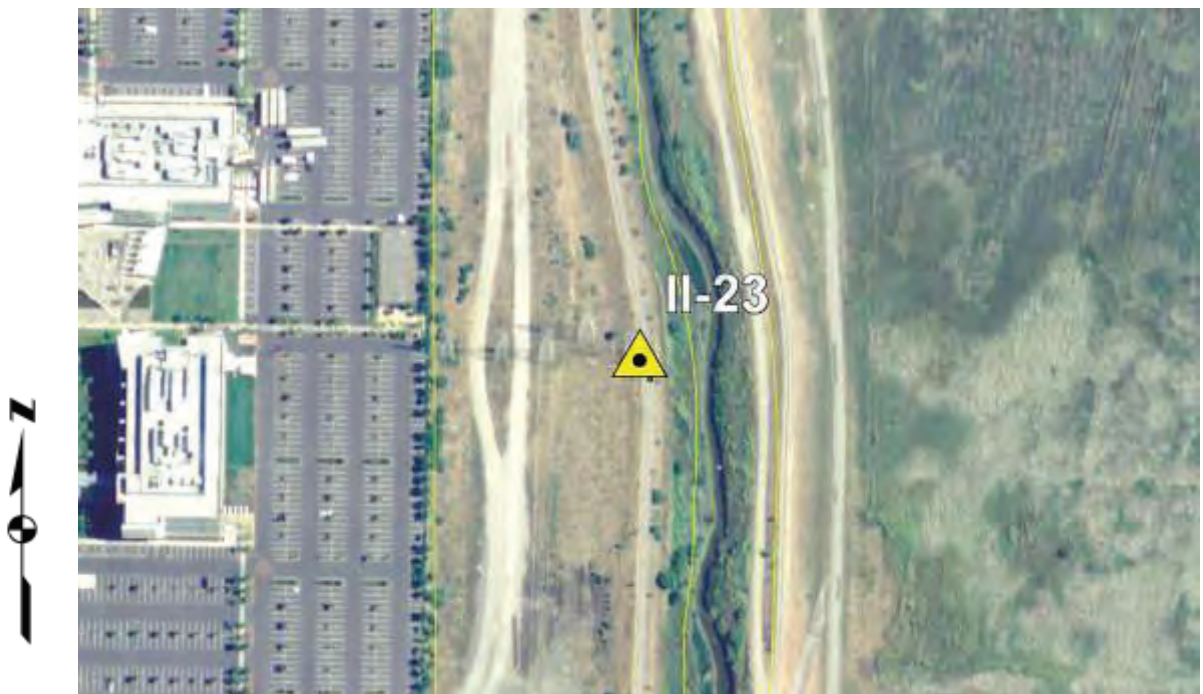
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**II-24**

Elevation Feet:	23.504
Elevation Meters:	7.164
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "CITY OF MTN VIEW II-24" on the southeast pier of the transmission tower west of levee, south of Crittenden Lane Bridge over Stevens Creek on western levee of Stevens Creek

Site Photo



Point Photo



Location Photo









**Section III**

**North – Central Area**

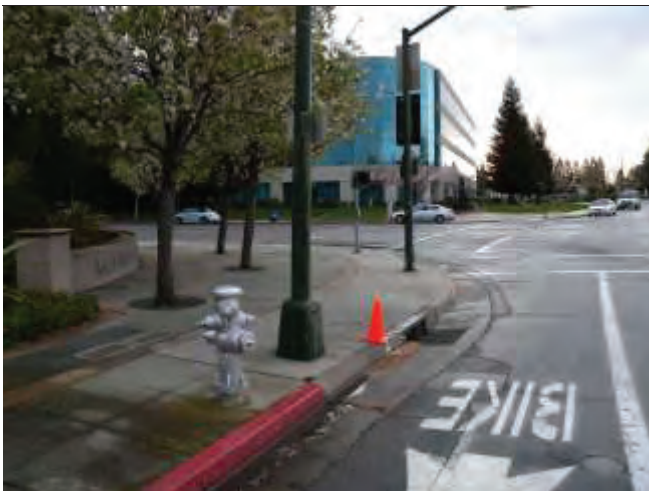
**(Bayshore Freeway to Caltrain Rail)**

Elevation Feet:	59.767
Elevation Meters:	18.217
Adjusted:	2010
Datum:	NAVD 1988

Description:

Brass disk stamped "III-02" set in top of curb at the west end of the northwest return along East Middlefield Road at Ellis Street

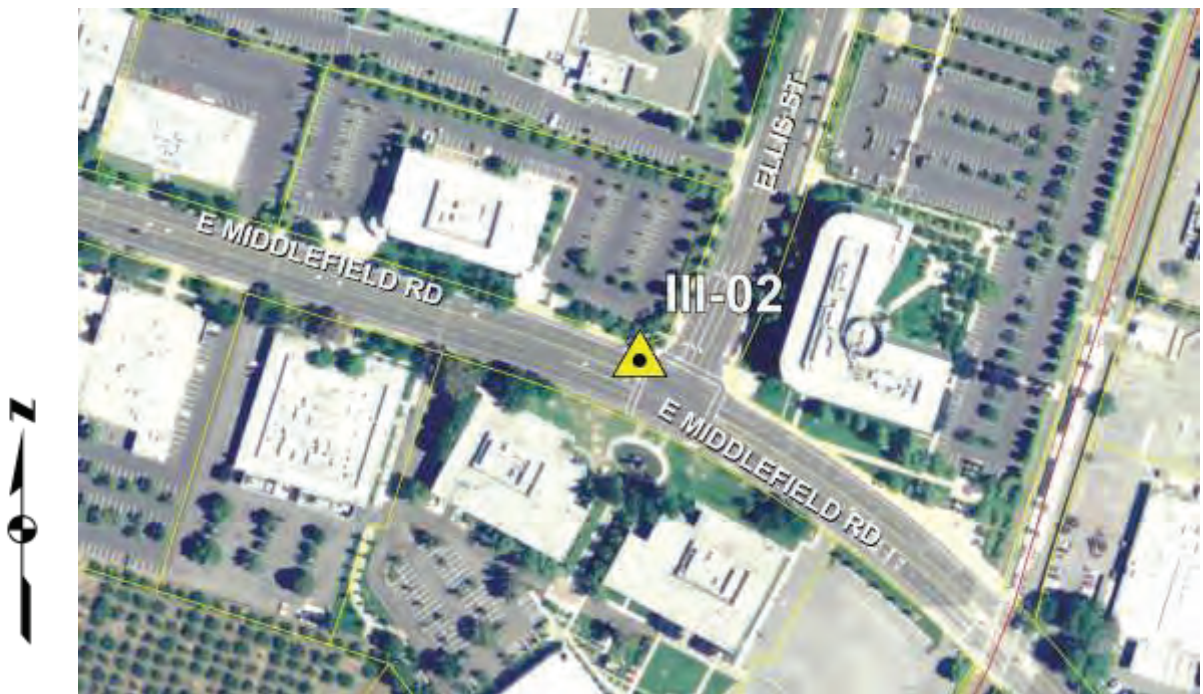
Site Photo



Point Photo



Location Photo





Elevation Feet:	63.300
Elevation Meters:	19.294
Adjusted:	2010
Datum:	NAVD 1988

Description:

Brass disk stamped "III-05" set in top of curb at the east end of the northeast return along East Middlefield Road at Whisman Road

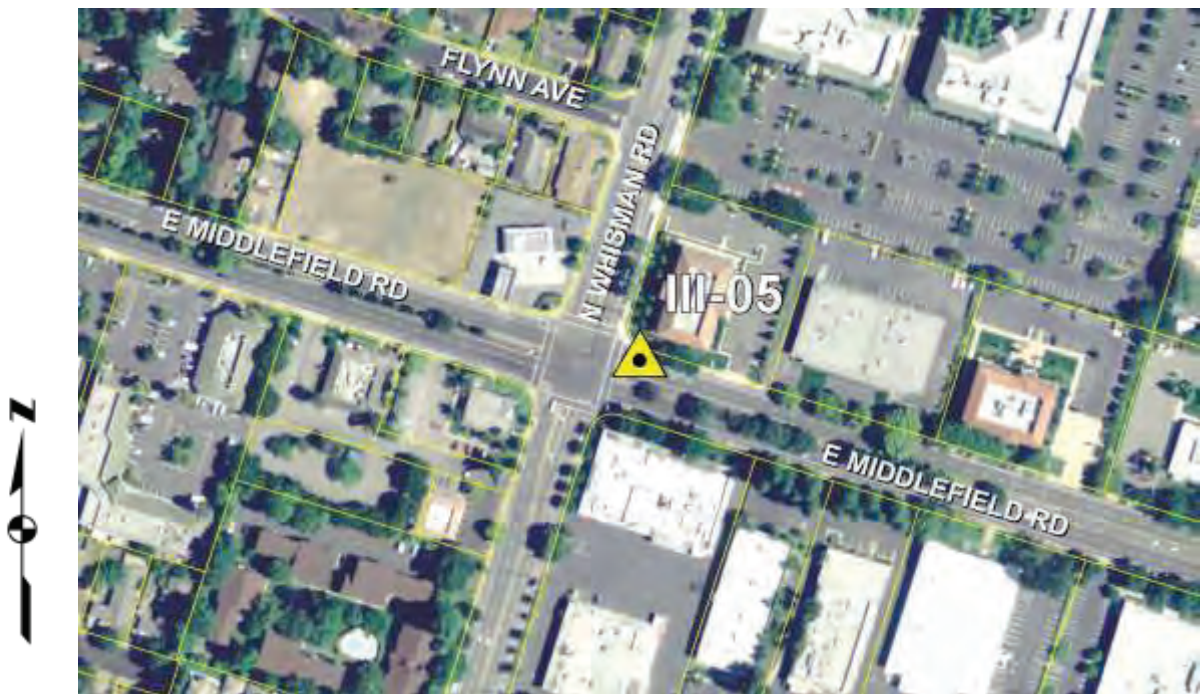
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-06**

Elevation Feet:	71.826
Elevation Meters:	21.892
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Brass disk stamped "III-06" set in the top of curb at the center of the northeast return of Gladys Avenue at Easy Street

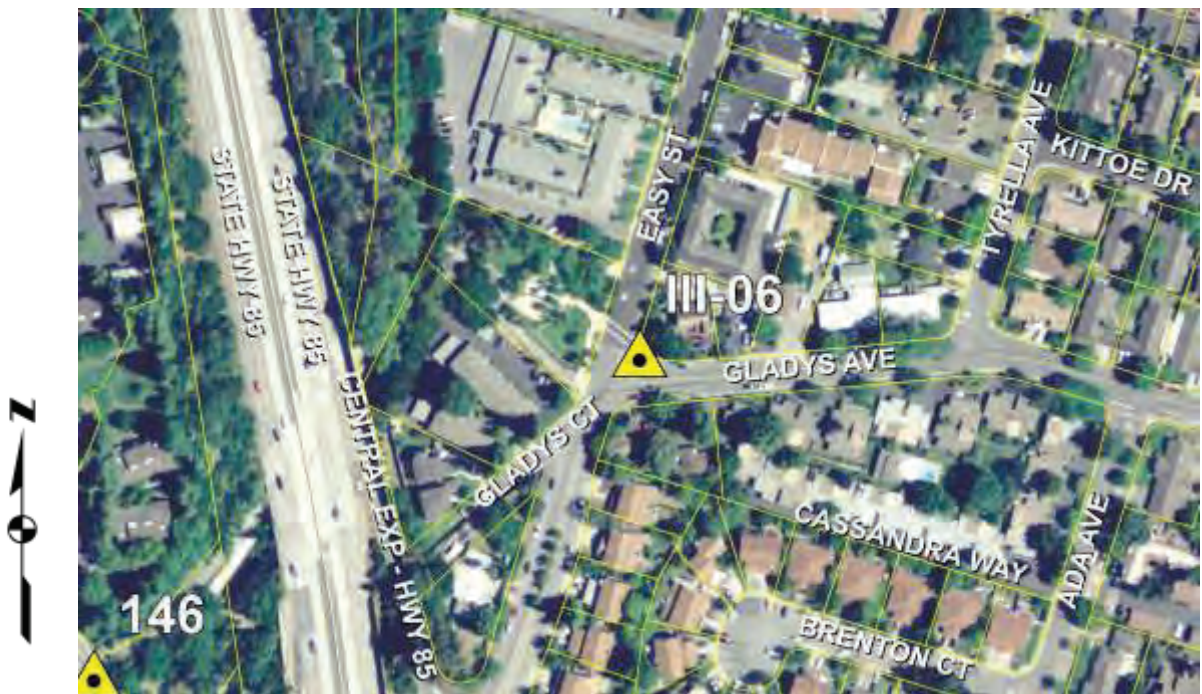
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-07**

Elevation Feet:	53.902
Elevation Meters:	16.429
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Brass disk stamped "III-07" set in the top of curb at the center of southwest return of Easy Street at Walker Drive

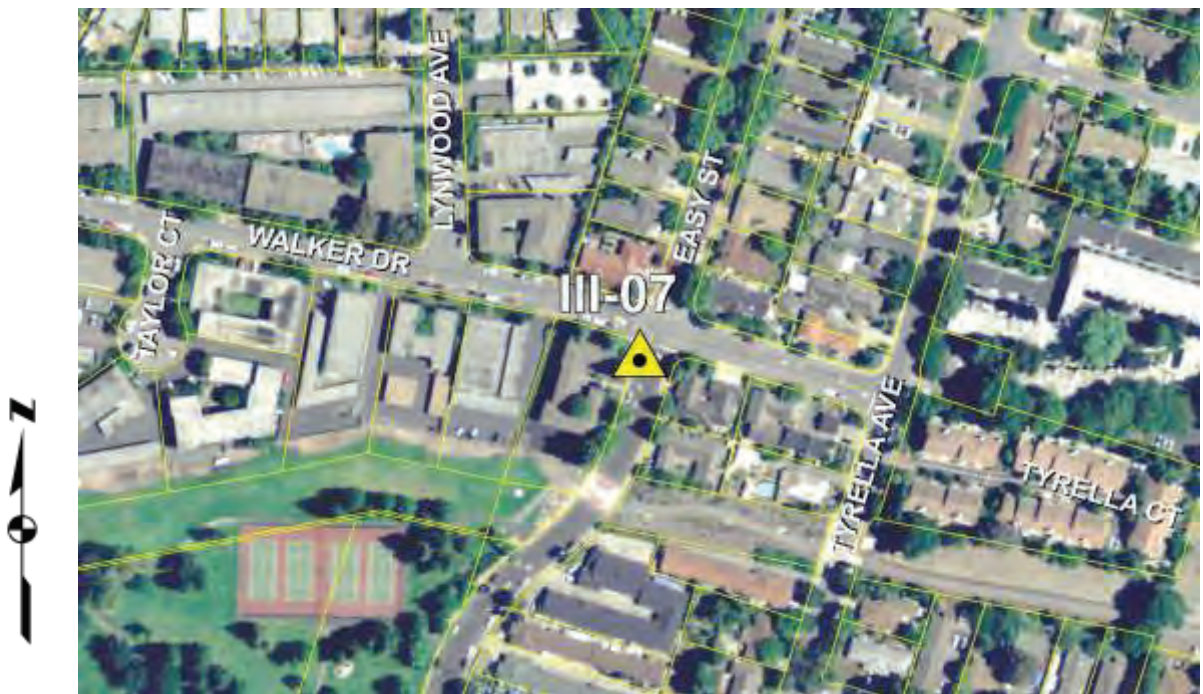
Site Photo



Point Photo



Location Photo





Elevation Feet:	48.376
Elevation Meters:	14.745
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-08" set in the top of curb on the west side of Rengstorff Avenue, 200' ± north of Central Expressway near north property line of the Shell Station

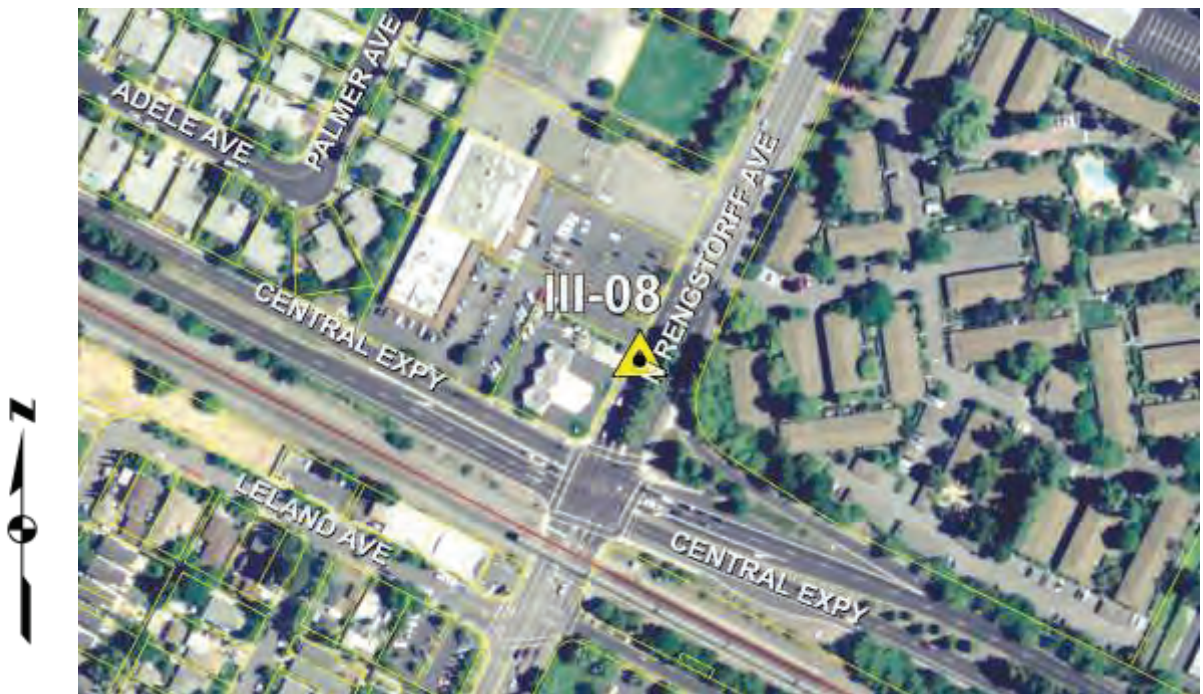
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-09**

Elevation Feet:	35.903
Elevation Meters:	10.943
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-09" set in the top of curb at the south end of the southeast return of North Shoreline Boulevard at Terra Bella Avenue

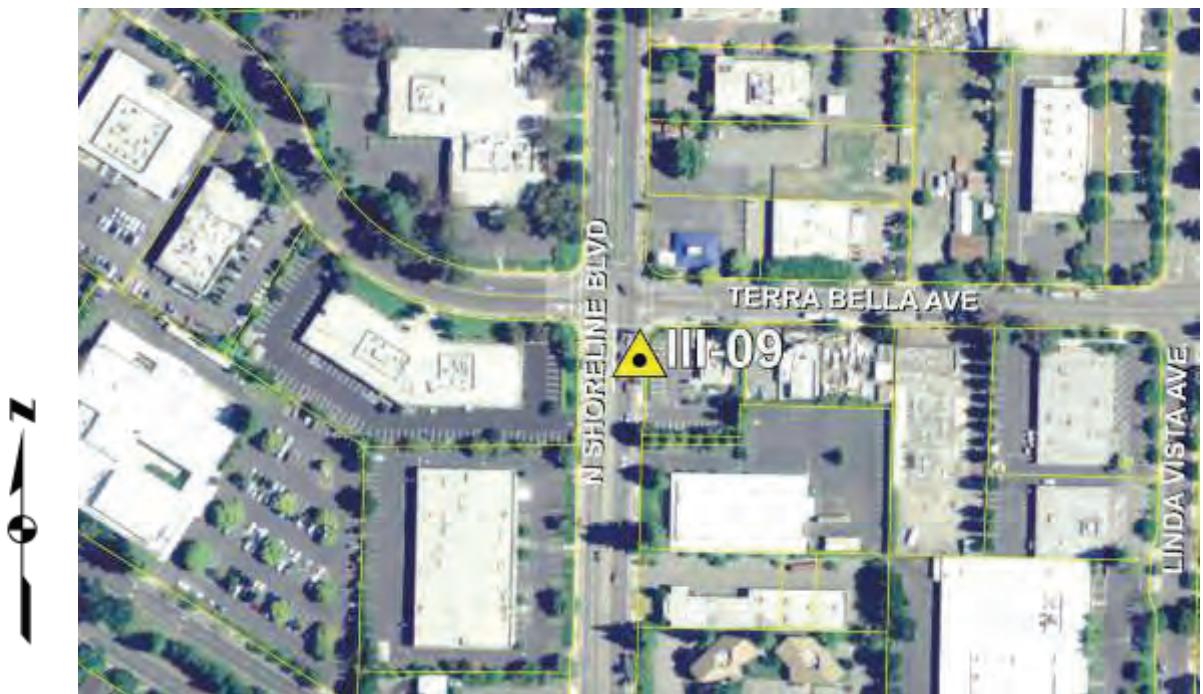
Site Photo



Point Photo



Location Photo



Elevation Feet:	55.812
Elevation Meters:	17.012
Adjusted:	2010
Datum:	NAVD 1988

Description:

Brass disk stamped "III-11" set in the top of curb at the north end of the northwest return of Maude Avenue at Clyde Avenue

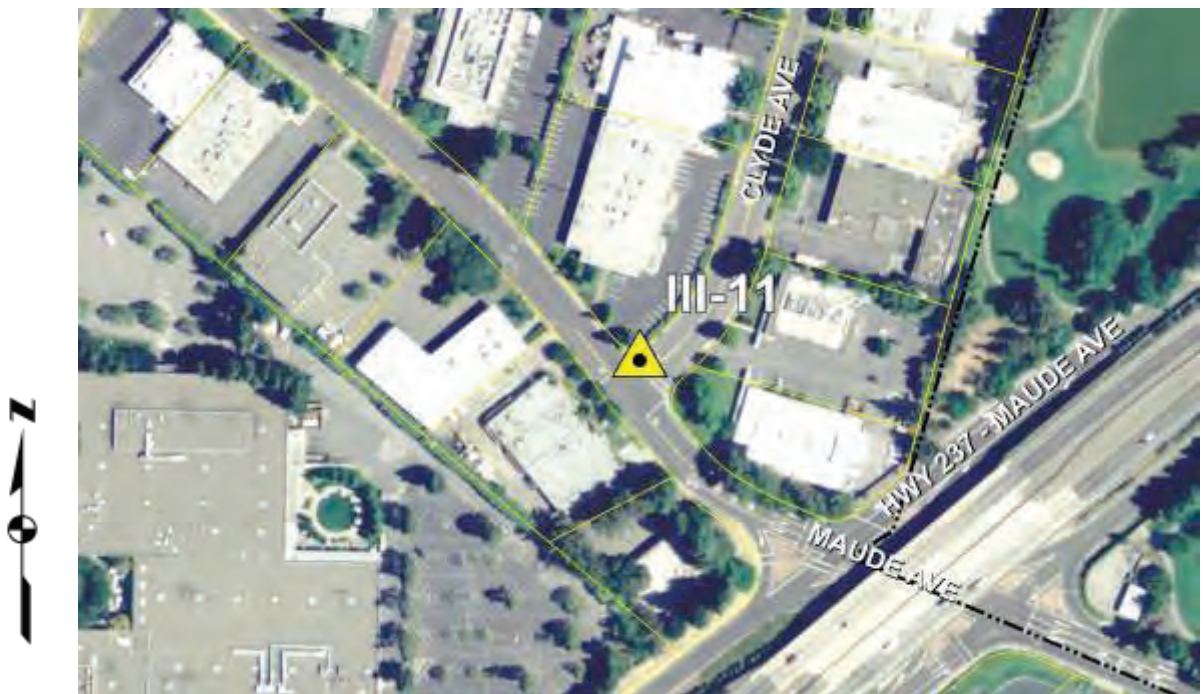
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-12**

Elevation Feet:	53.814
Elevation Meters:	16.402
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-12" set in the top of curb at the south end of the northeast curb return of Maude Avenue at Logue Avenue

Site Photo



Point Photo



Location Photo

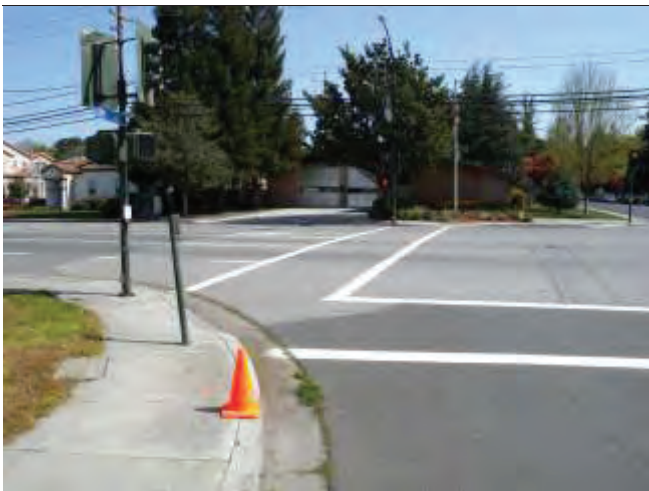


Elevation Feet:	35.155
Elevation Meters:	10.715
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-14" set in the top of curb at the center of the northwest curb return of Rengstorff Avenue at Jewell Place

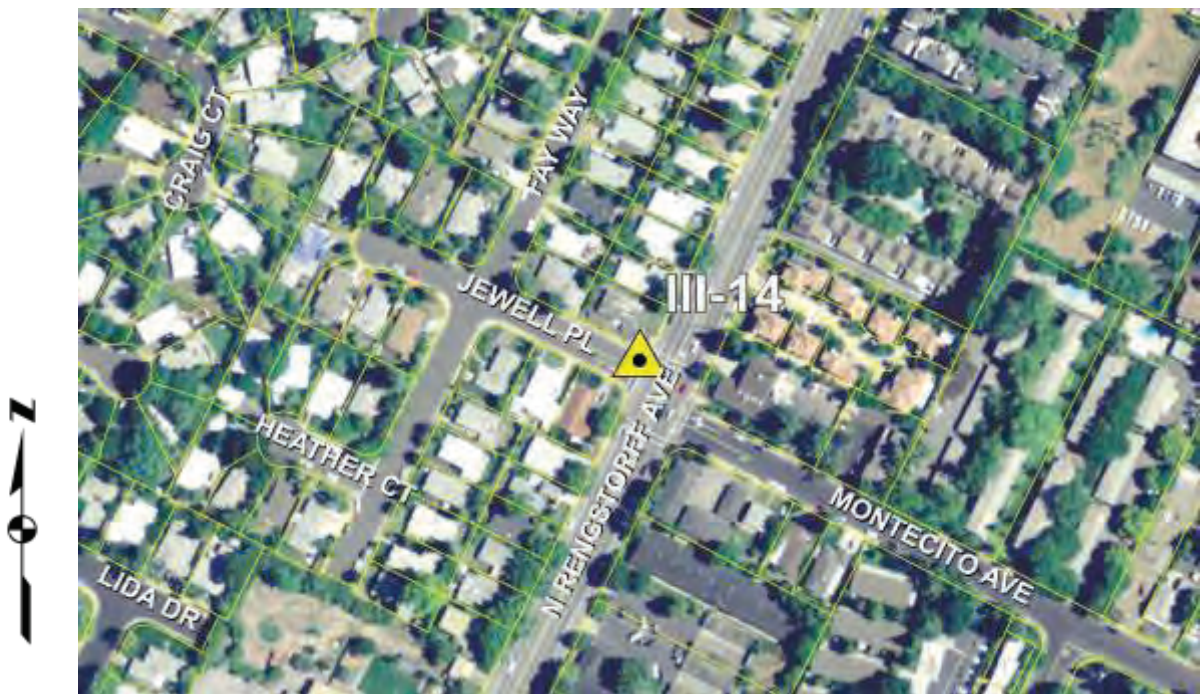
Site Photo



Point Photo



Location Photo





Elevation Feet:	68.560
Elevation Meters:	20.897
Adjusted:	2010
Datum:	NAVD 1988

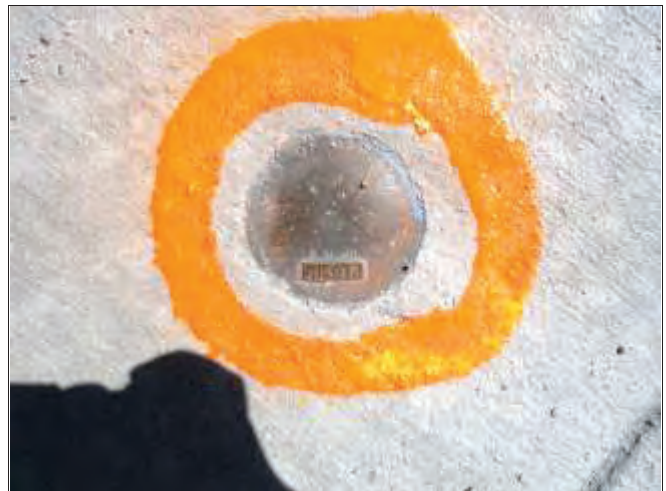
**Description:**

Bronze disk stamped "III-15" set in the top of curb at the center of the southeast return of Central Avenue at Andsbury Place

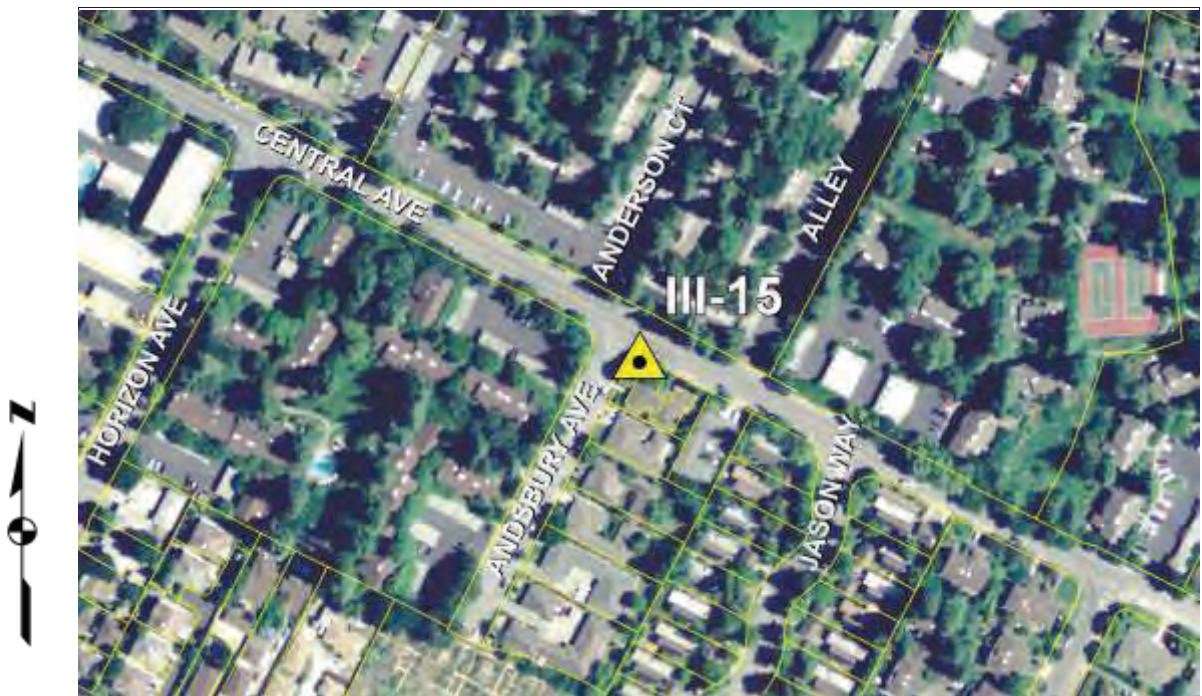
Site Photo



Point Photo



Location Photo





Elevation Feet:	86.525
Elevation Meters:	26.373
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-16" set in the top of curb at the center of the southeast return of Ada Avenue at Minaret Avenue

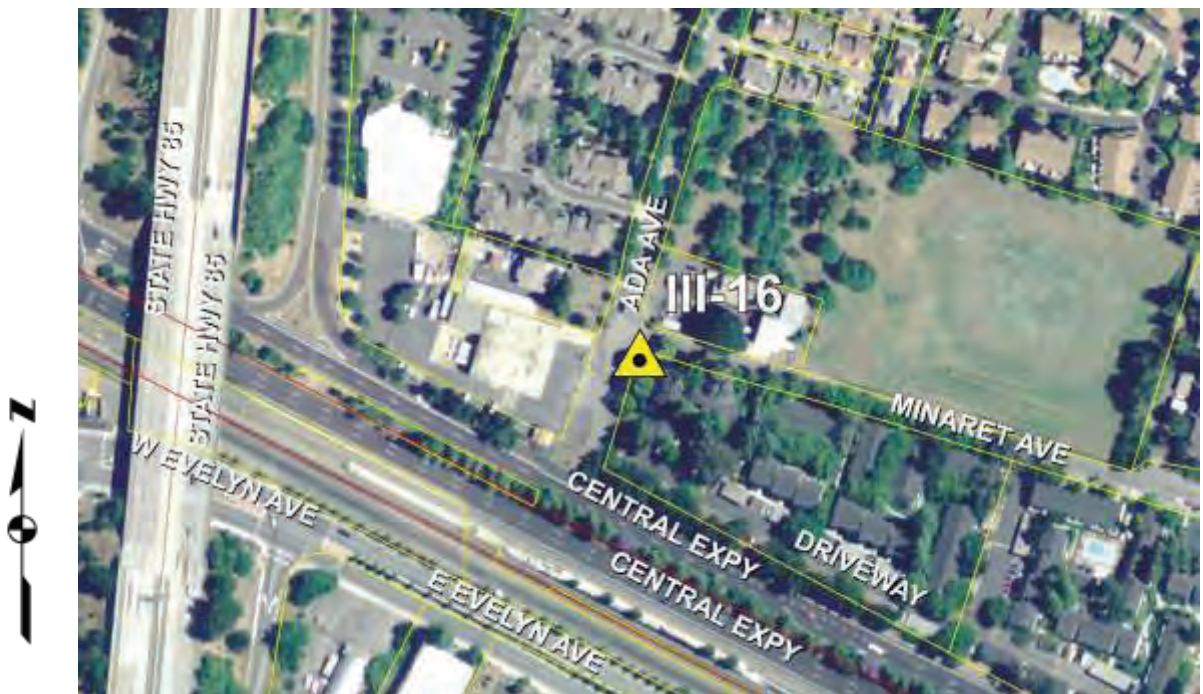
Site Photo



Point Photo



Location Photo







**Vertical Control**

**Benchmark:**

**III-17**

Elevation Feet:	75.008
Elevation Meters:	22.863
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-17" set in the top of curb at the west end of the northwest return of Gladys Avenue at James Drive

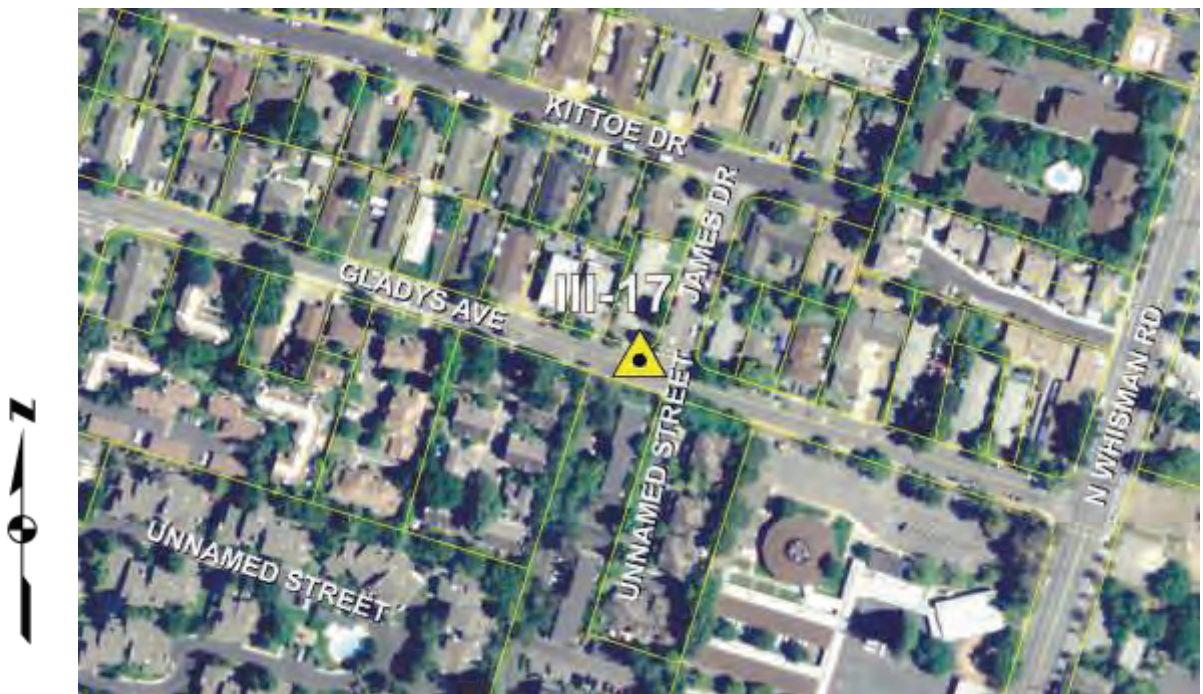
Site Photo



Point Photo



Location Photo





Elevation Feet:	53.816
Elevation Meters:	16.403
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

SFWD R/W marker 145R, a Bronze disk set in a concrete post at the east P/L of Beatrice Street and the north R/W line of Hetch-Hetchy

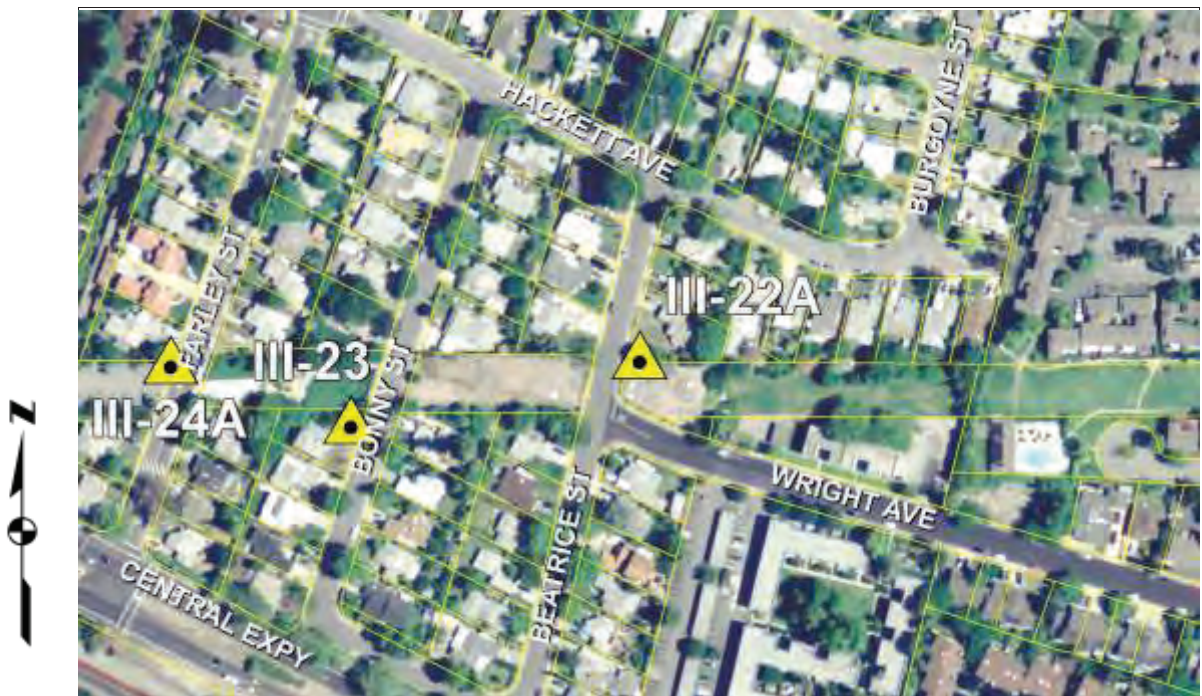
Site Photo



Point Photo



Location Photo



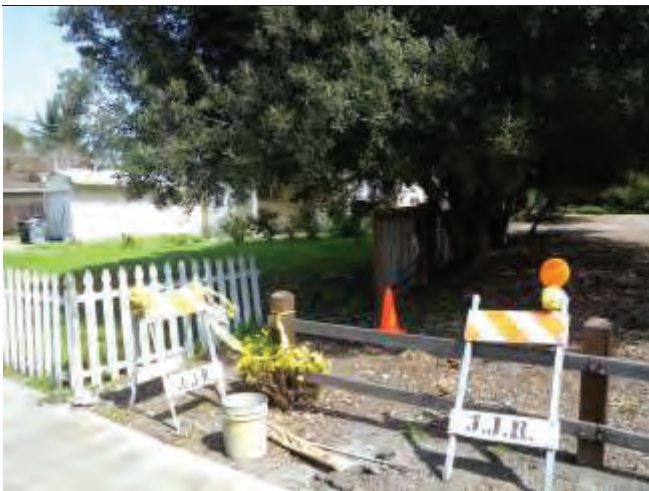


Elevation Feet:	55.211
Elevation Meters:	16.828
Adjusted:	2010
Datum:	NAVD 1988

Description:

SFWD R/W marker 146L, a Bronze disk set in a concrete post at the west P/L of Bonny Street and the south R/W line of Hetch-Hetchy

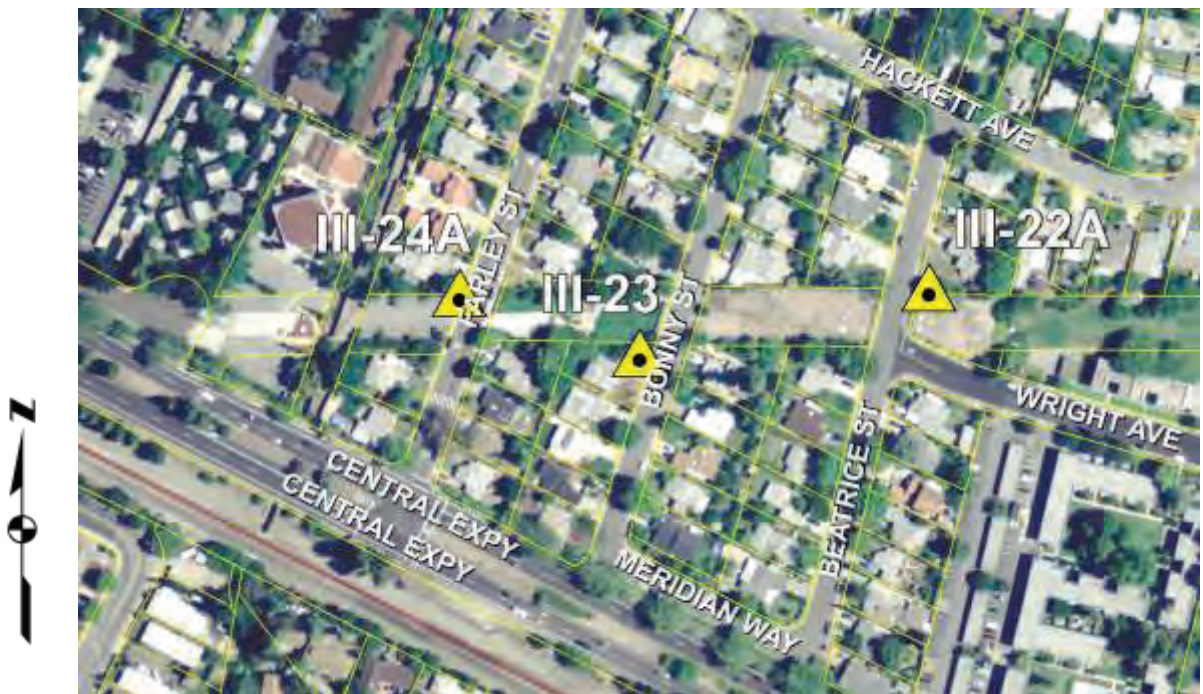
Site Photo



Point Photo



Location Photo





Elevation Feet:	54.728
Elevation Meters:	16.681
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

SFWD R/W marker 147R, a Bronze disk set in a concrete post at the west P/L of Farley Street and the north R/W line of Hetch-Hetchy

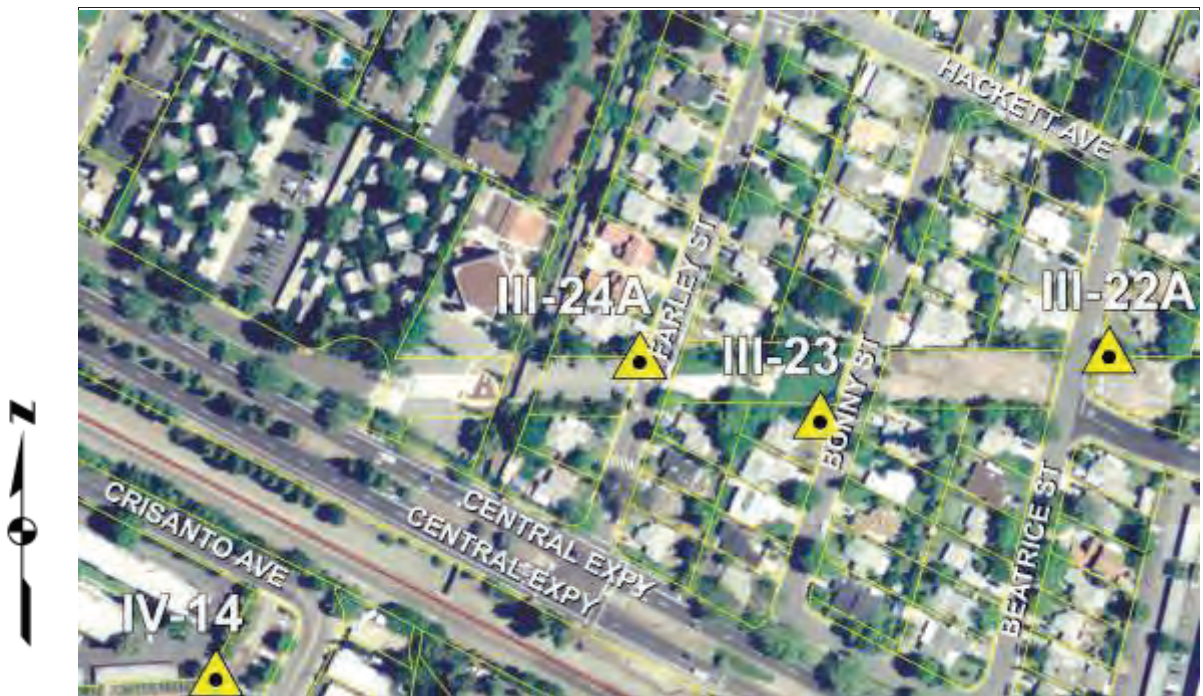
Site Photo



Point Photo



Location Photo





Elevation Feet:	56.321
Elevation Meters:	17.167
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-25" set in the top of curb at center of the southeast return of Wright Avenue at Polaris Avenue

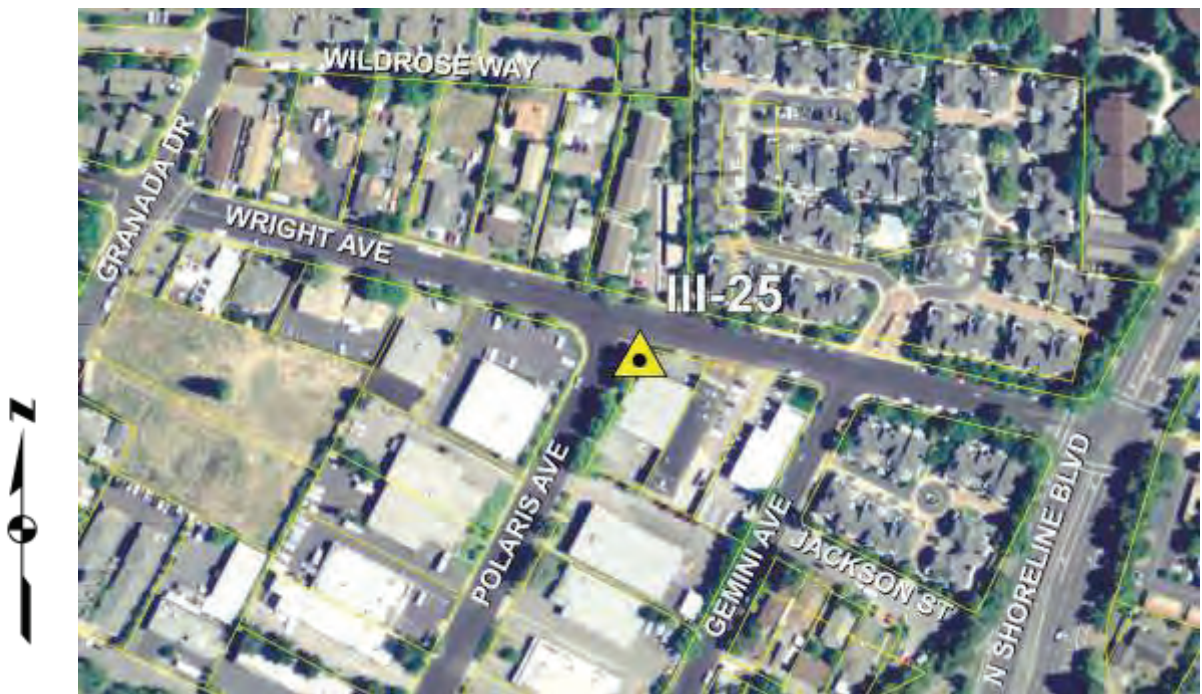
Site Photo



Point Photo



Location Photo







**Vertical Control**

**Benchmark: III-30**

Elevation Feet:	16.501
Elevation Meters:	5.030
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-30" set in the top of curb at center of the northwest return of Sierra Vista Avenue at Plymouth Street

Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

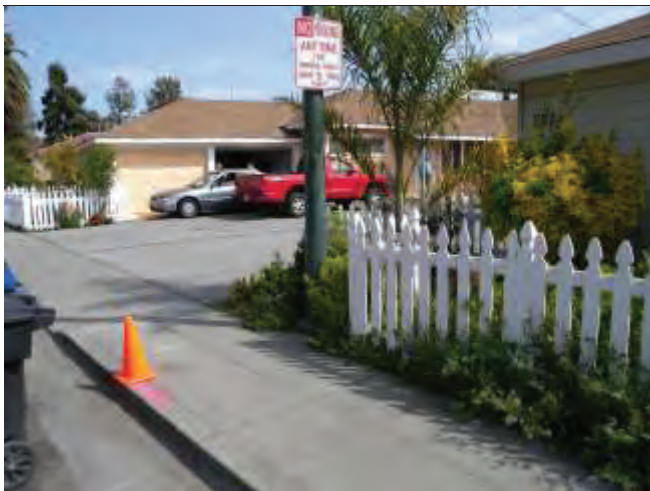
**III-33**

Elevation Feet:	16.152
Elevation Meters:	4.923
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-33" set in the top of curb on the east side of Rengstorff Avenue opposite Wyandotte Street

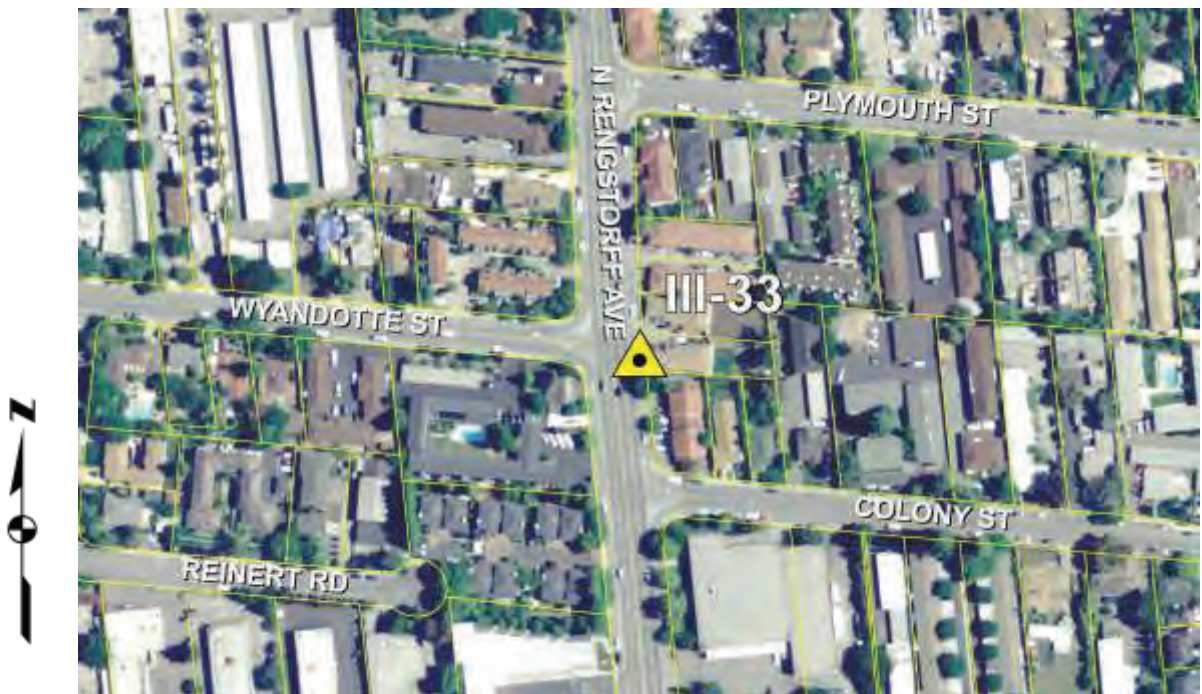
Site Photo



Point Photo



Location Photo



Elevation Feet:	9.681
Elevation Meters:	2.951
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-34" set in the top curb, 189'± east of the centerline of Industrial Avenue at the north side of Charleston Road

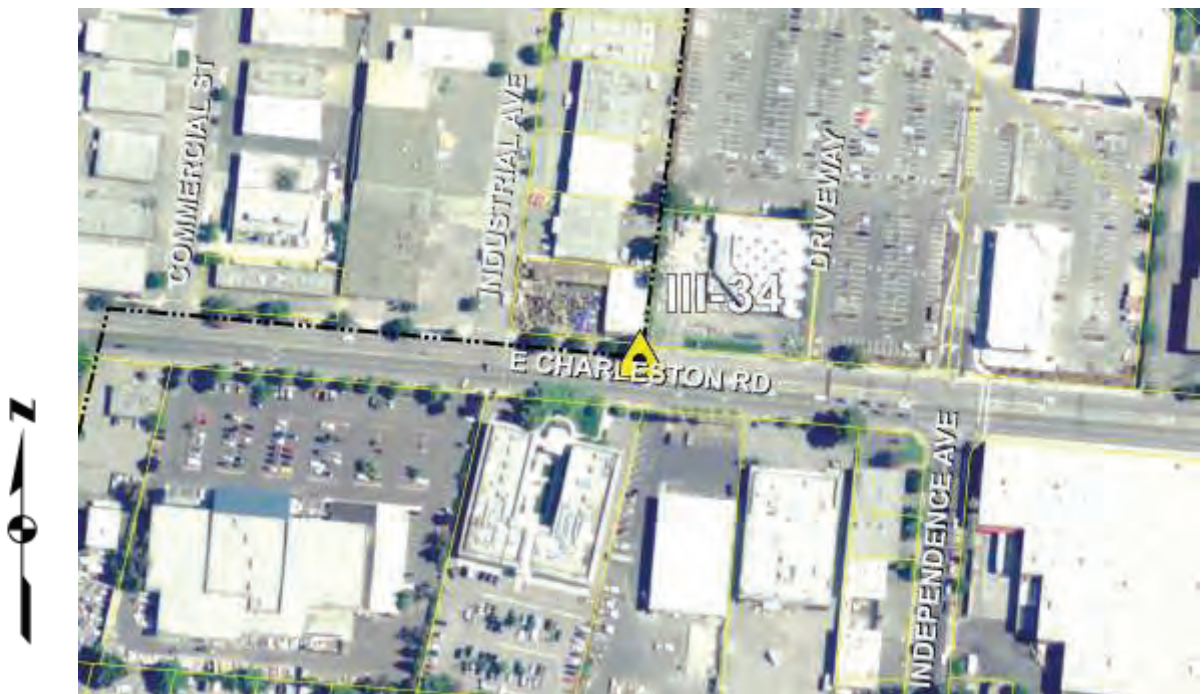
Site Photo



Point Photo



Location Photo





Elevation Feet:	10.755
Elevation Meters:	3.278
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-35" set in the top of curb at west end of triangular traffic island at the intersection of Charleston Road at Bayshore Road

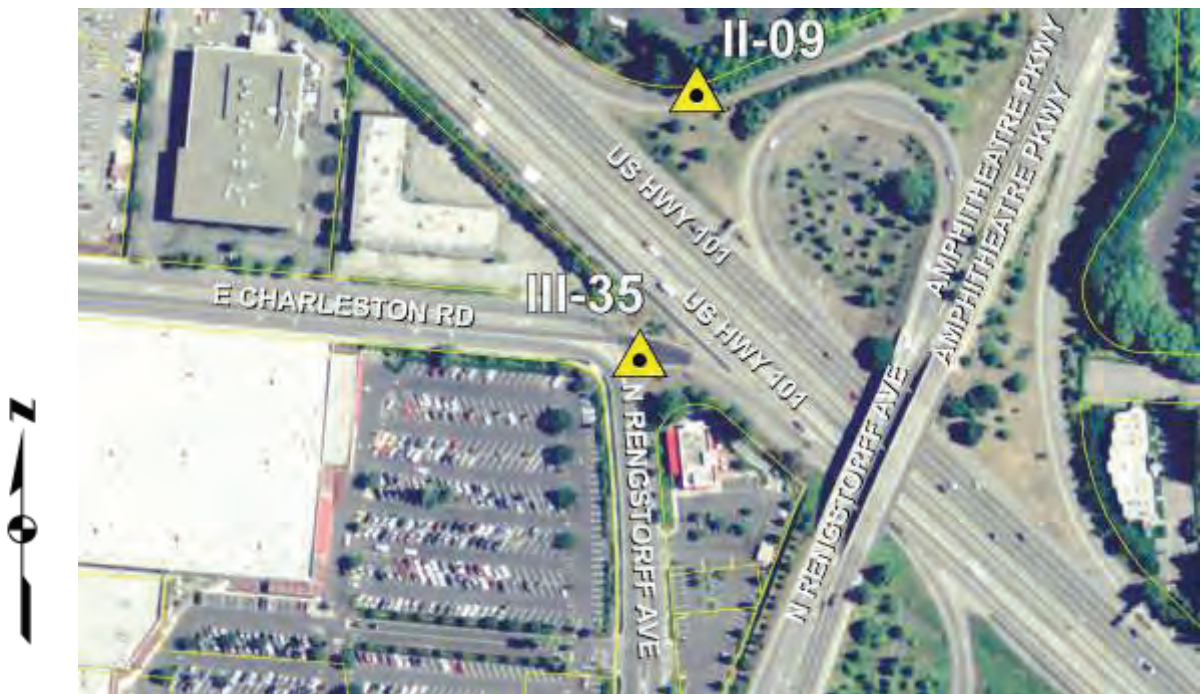
Site Photo



Point Photo



Location Photo





## Vertical Control

Benchmark:

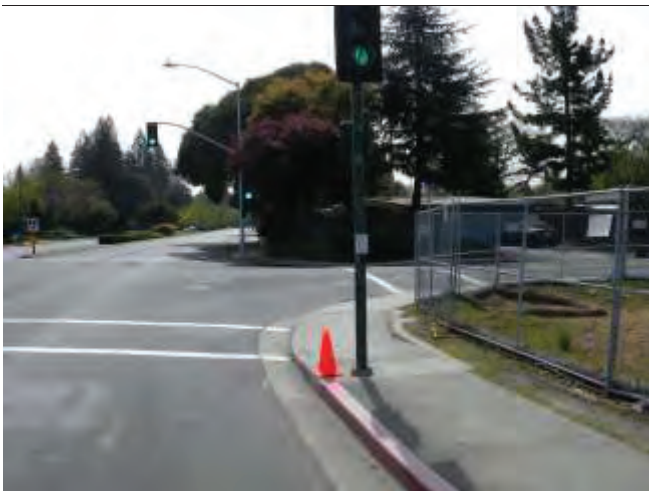
**III-36**

Elevation Feet:	18.365
Elevation Meters:	5.598
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-36" set in the top of curb at west end of the southwest return of Middlefield Road at Alvin Street

Site Photo



Point Photo



Location Photo





Elevation Feet:	32.206
Elevation Meters:	9.816
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-37" set in the top of curb near drain inlet at the southeast return of Diablo Avenue at Whitney Drive

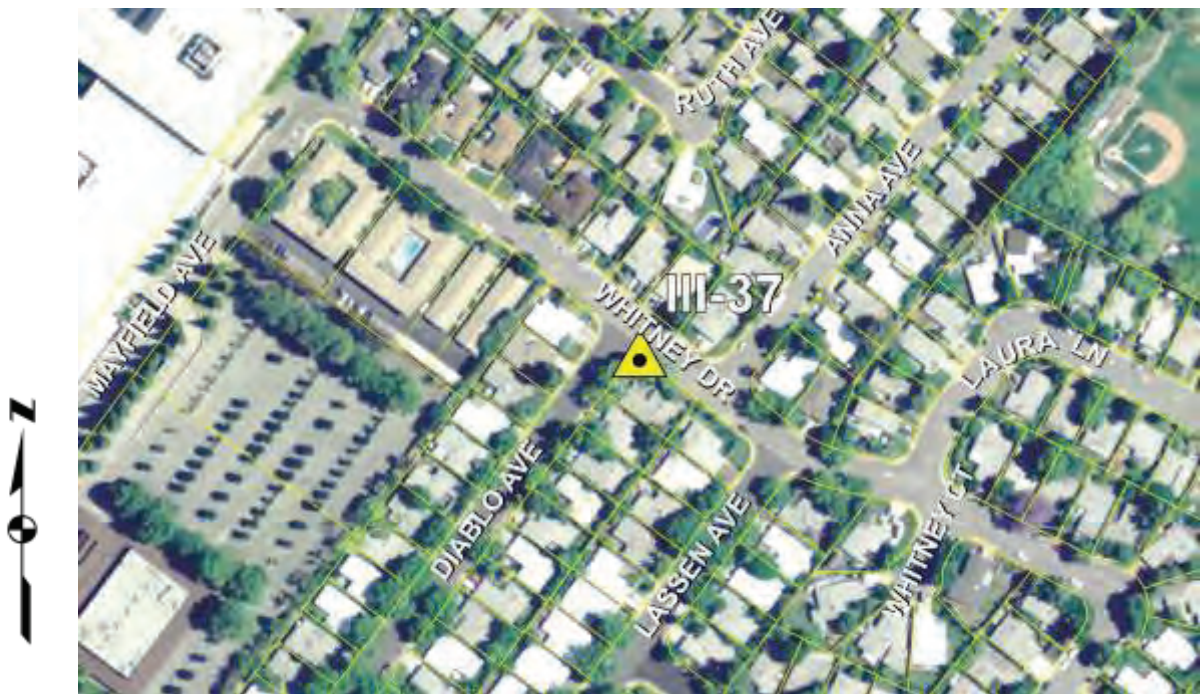
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-38**

Elevation Feet:	35.495
Elevation Meters:	10.819
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-38" set in the top of curb of the southwest return of Thompson Avenue at Laura Lane

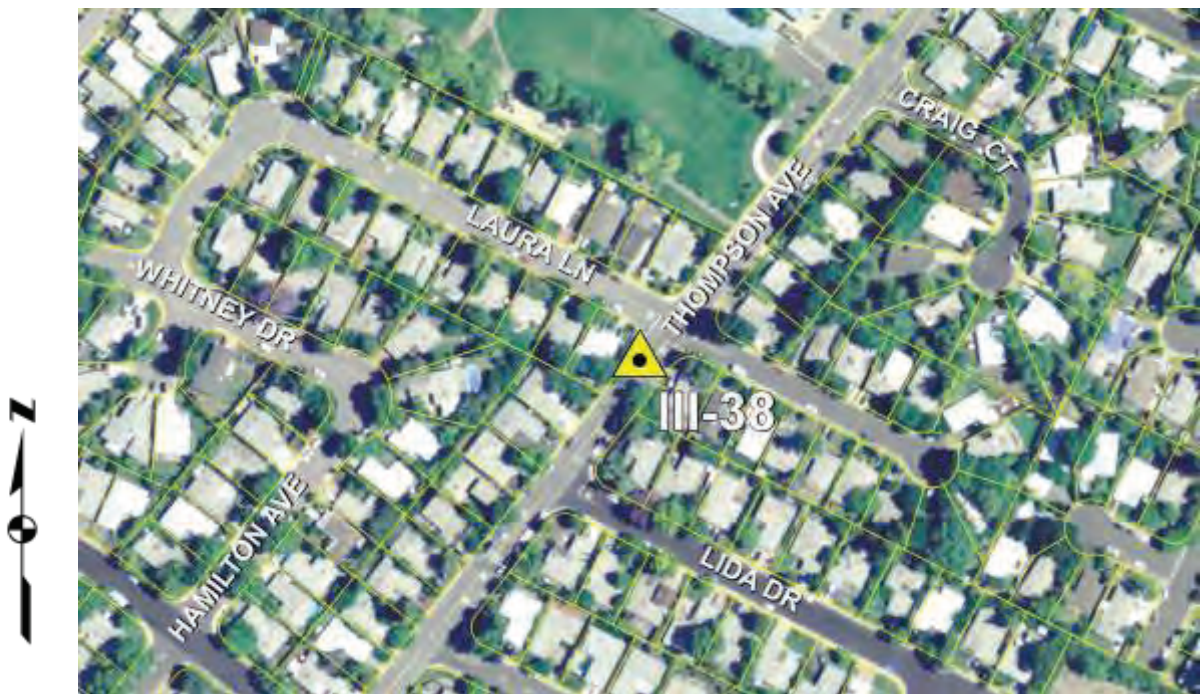
Site Photo



Point Photo



Location Photo





Elevation Feet:	26.296
Elevation Meters:	8.015
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-39" set in the top of curb of the southwest return of Thompson Avenue at Alvin Street

Site Photo



Point Photo



Location Photo





Elevation Feet:	32.374
Elevation Meters:	9.868
Adjusted:	2010
Datum:	NAVD 1988

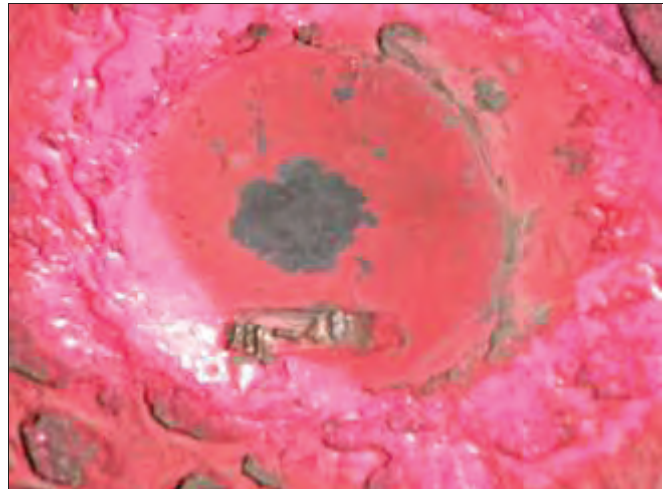
Description:

Bronze disk stamped "III-40" set in the top of curb of the northwest return of Farley Street at San Ramon Avenue

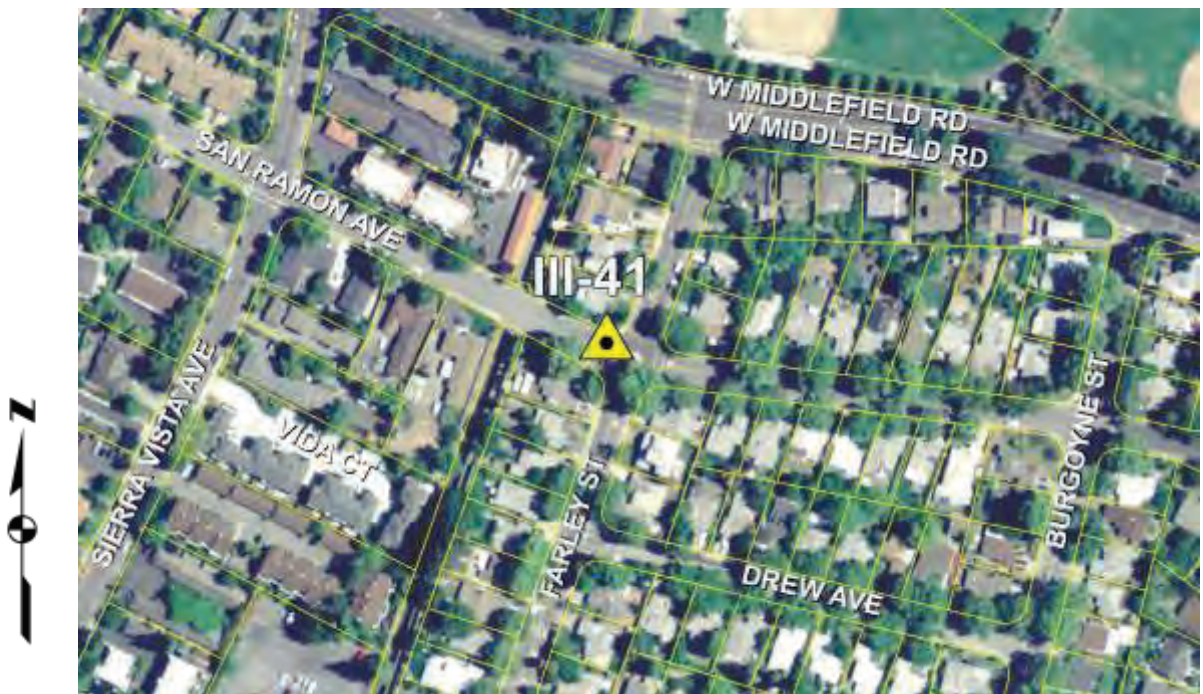
Site Photo



Point Photo



Location Photo





Elevation Feet:	27.121
Elevation Meters:	8.266
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-42" set in the top of curb of the northwest return of Rock Street at Telford Avenue

Site Photo



Point Photo



Location Photo





Elevation Feet:	21.219
Elevation Meters:	6.467
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-43" set in the top of curb at center of the westerly corner of Alvin Street at Victory Street

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **III-44**

Elevation Feet:	26.247
Elevation Meters:	8.000
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-44" set in the top of curb at center of the southwest return of Anna Avenue at Elka Avenue

Site Photo



Point Photo



Location Photo





## Vertical Control

Benchmark:

**III-45**

Elevation Feet:	14.300
Elevation Meters:	4.359
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-45" set in the top of curb at center of the northwest return of Independence Avenue at Wyandotte Street

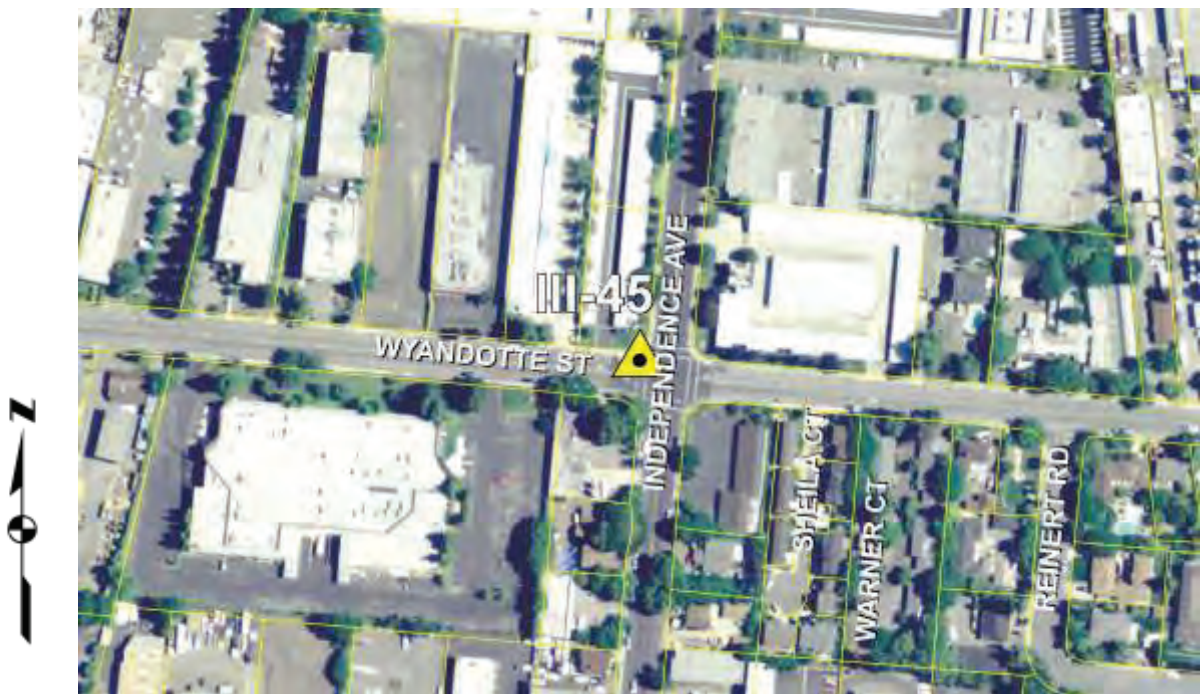
Site Photo



Point Photo



Location Photo





Elevation Feet:	41.151
Elevation Meters:	12.543
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-46" set in the top of curb on the west side of Leong Drive opposite Evandale Avenue

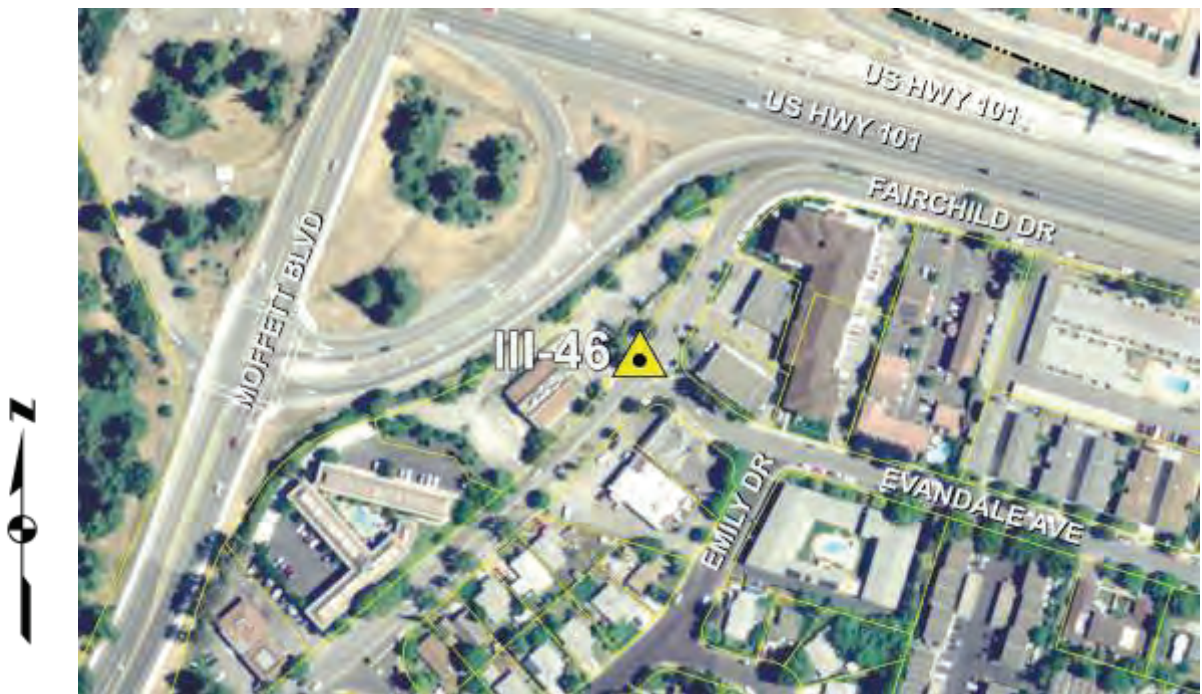
Site Photo



Point Photo



Location Photo





Elevation Feet:	40.419
Elevation Meters:	12.320
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-47" ste in the top curb on the north side of the eastbound off-ramp from San Antonio overpass to Central Expressway. Disk set 100'± east of the bottom of the off-ramp.

Site Photo



Point Photo



Location Photo





Elevation Feet:	62.387
Elevation Meters:	19.016
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-50" set in the top of curb at the west end of the southwest return of Jackson Street at Stierlin Road

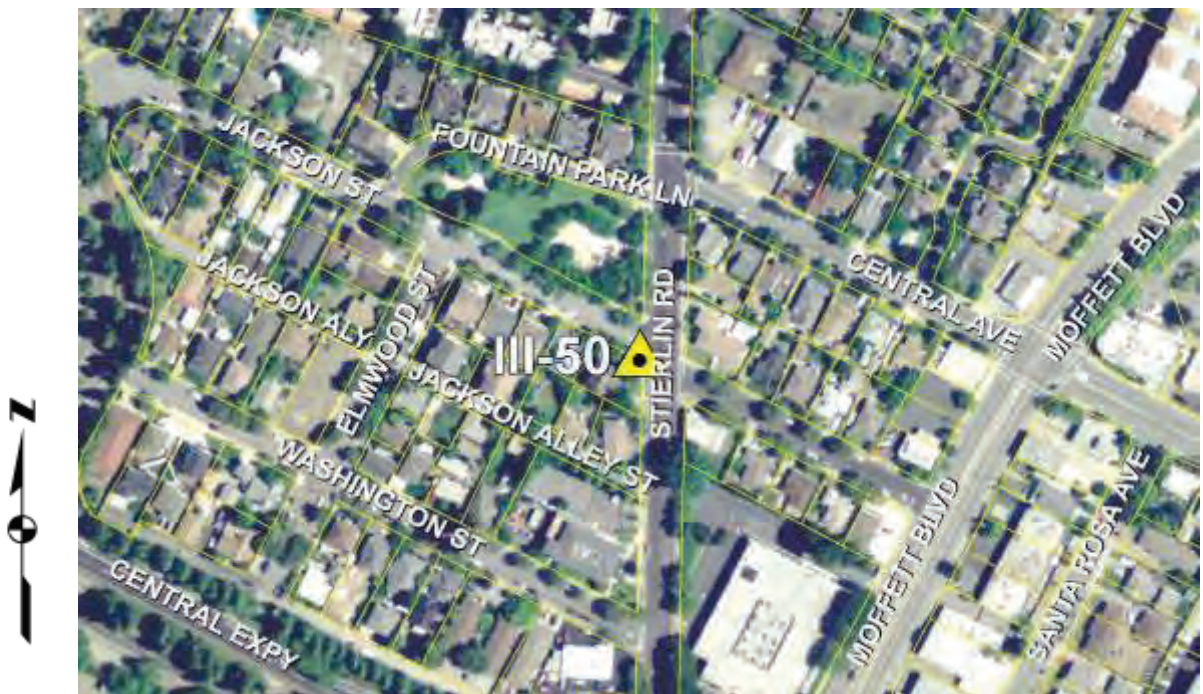
Site Photo



Point Photo



Location Photo





Elevation Feet:	41.725
Elevation Meters:	12.718
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-53" set in the top of curb at the southwest return of Evandale Avenue at Whisman Road

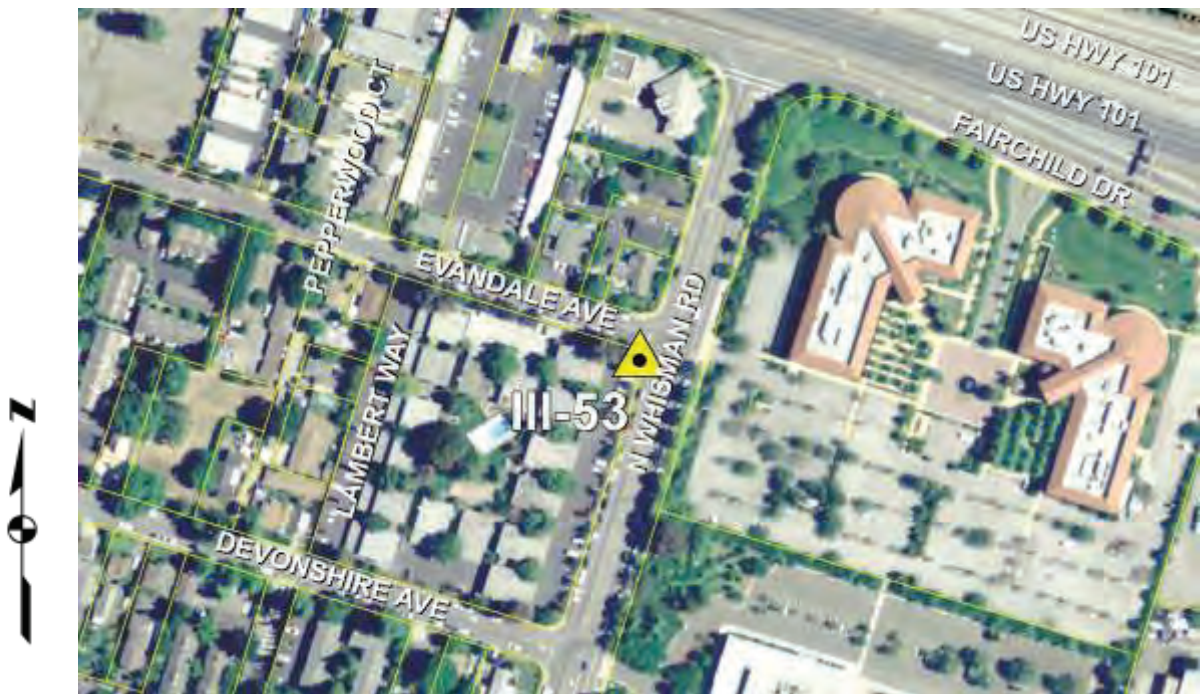
Site Photo



Point Photo



Location Photo





Elevation Feet:	41.704
Elevation Meters:	12.712
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-54" set in the top of curb at the south end of the southwest return of North Shoreline Boulevard at Middlefield Road

Site Photo



Point Photo



Location Photo







Vertical Control

Benchmark:

**III-55**

Elevation Feet:	61.124
Elevation Meters:	18.631
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-55" set in the top of curb at the center of the northeast return of Flynn Avenue at Tyrella Avenue

Site Photo



Point Photo



Location Photo





Elevation Feet:	26.238
Elevation Meters:	7.997
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-56" set in the top of curb at the east end of the southeast return of San Ramon Avenue at Rengstorff Avenue

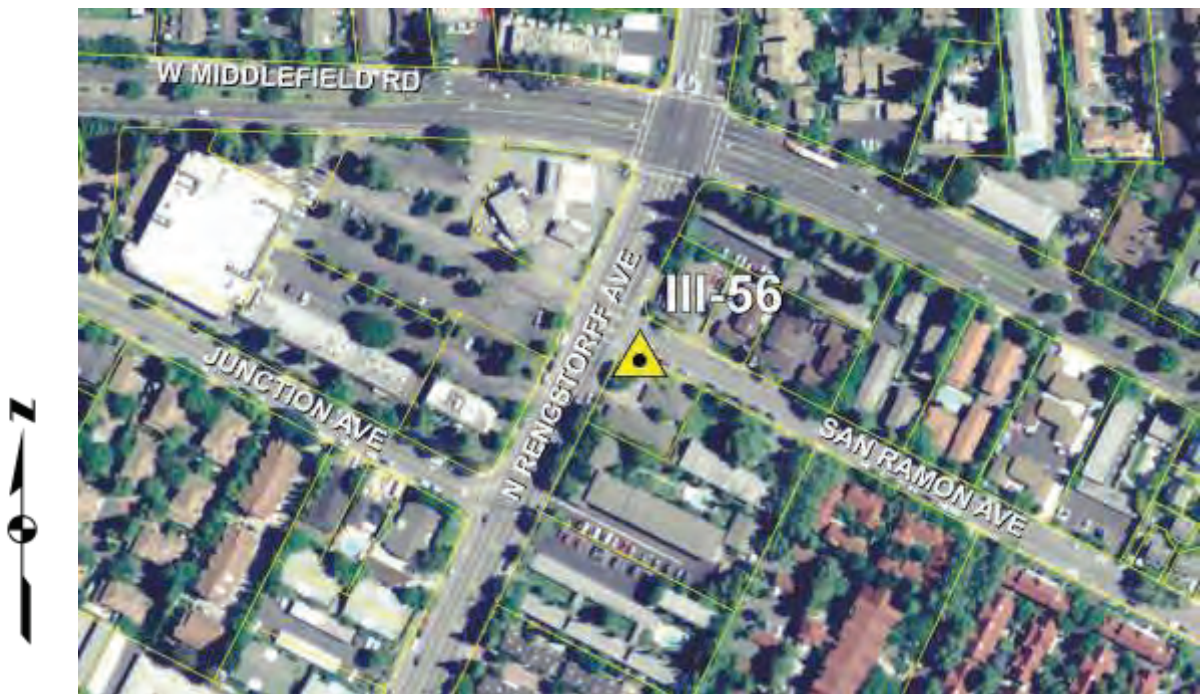
Site Photo



Point Photo



Location Photo





Elevation Feet:	41.819
Elevation Meters:	12.746
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-57" set in the top of curb at the west end of the southwest return of Montecito Avenue at Sierra Vista Avenue

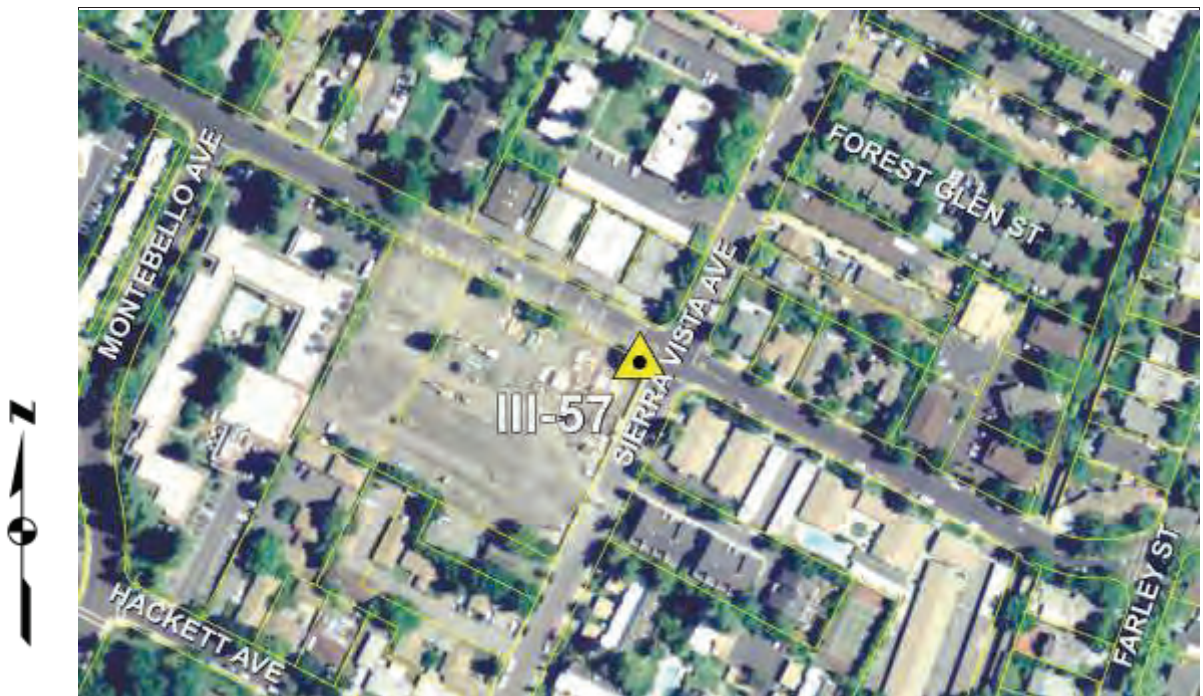
Site Photo



Point Photo



Location Photo





Elevation Feet:	58.323
Elevation Meters:	17.777
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-59" set in the top of curb at the center of the southeast return of Cypress Point Drive at Moffett Boulevard

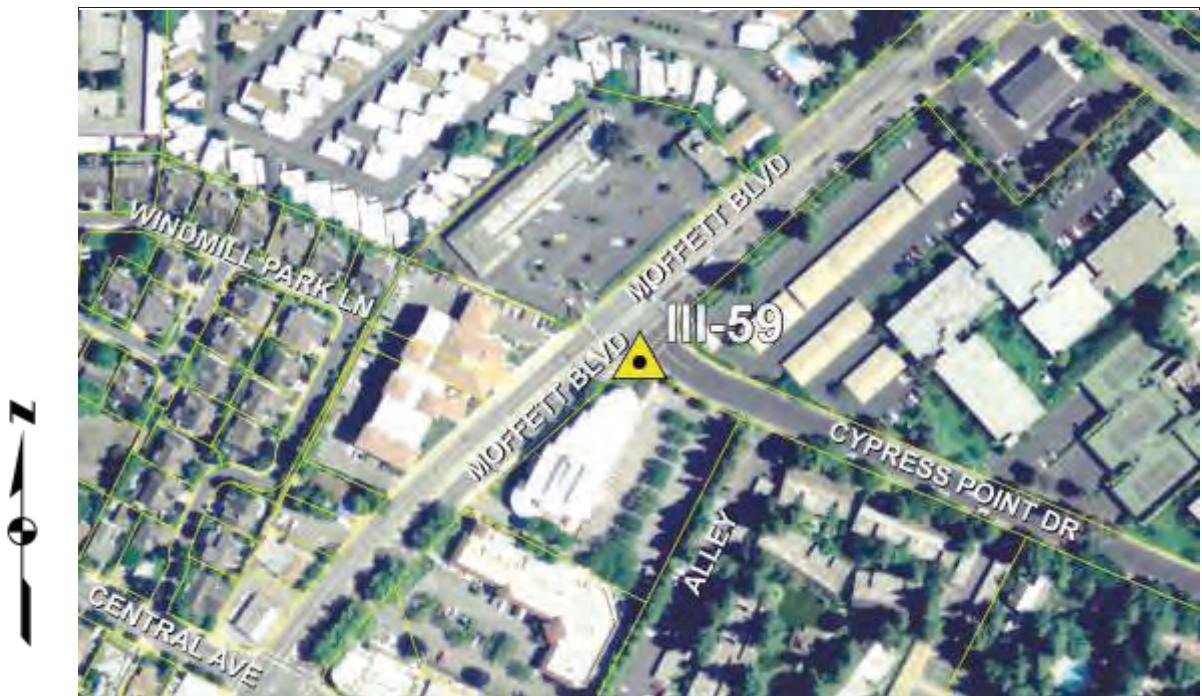
Site Photo



Point Photo



Location Photo





Elevation Feet:	47.090
Elevation Meters:	14.353
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-60" set in the top of curb at the center of the southeast return of San Vernon Avenue at Middlefield Road

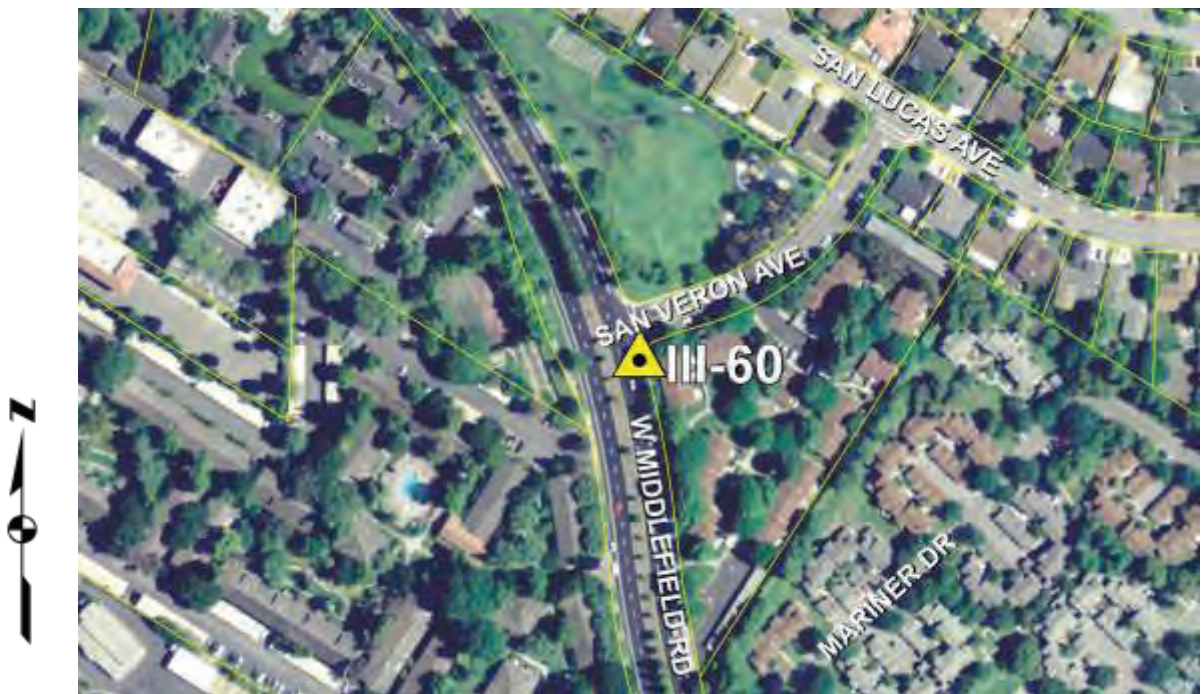
Site Photo



Point Photo



Location Photo







**Vertical Control**

**Benchmark: III-61**

Elevation Feet:	46.050
Elevation Meters:	14.036
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-61" set in the top of curb on the east side of North Shoreline Boulevard 142'± south of the centerline of Mountain Shadows Drive

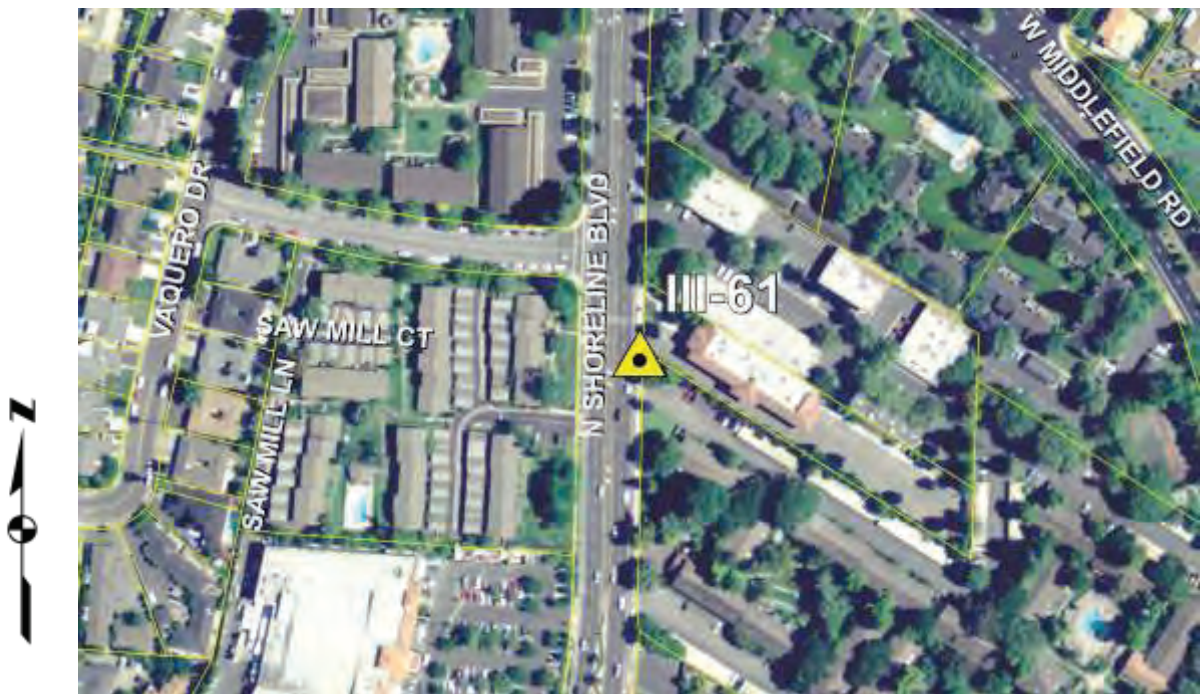
Site Photo



Point Photo



Location Photo





**Vertical Control**

**Benchmark: III-62**

Elevation Feet:	77.815
Elevation Meters:	23.718
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "III-62" set in the base of the flagpole located in front of Fire Station No. 4, 229 North Whisman Road

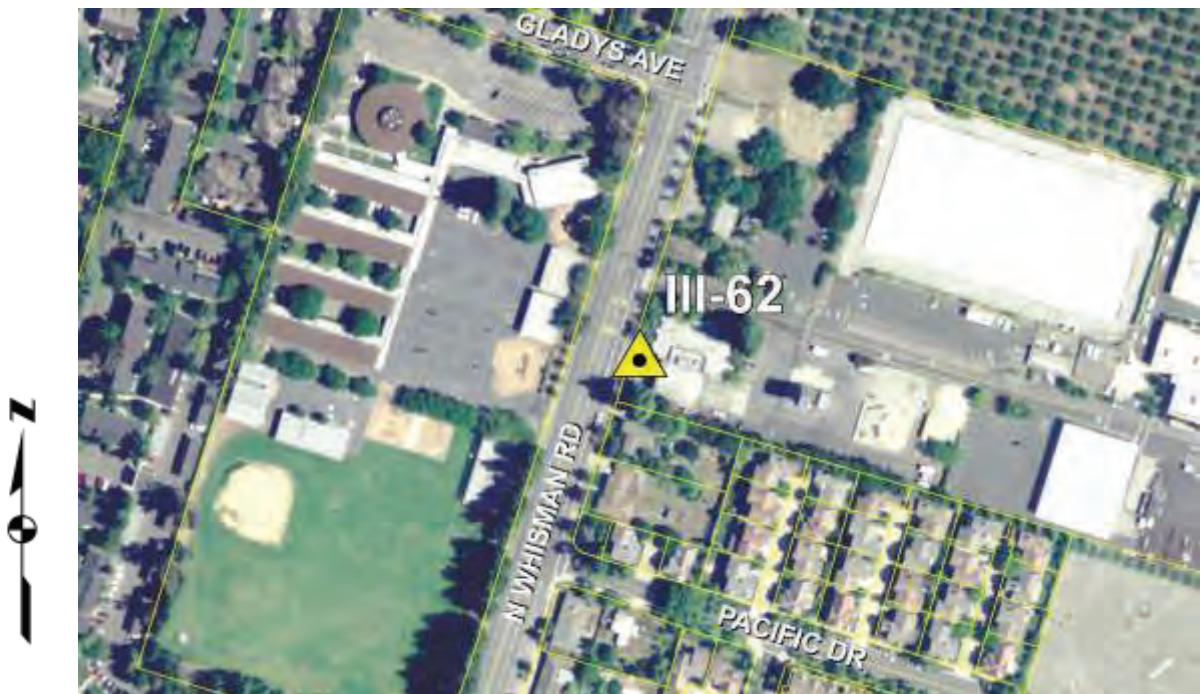
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-63**

Elevation Feet:	49.188
Elevation Meters:	14.993
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-63" set in the top of curb at the back of handicap ramp of the southwest corner of Poppy Place at Montecito Avenue

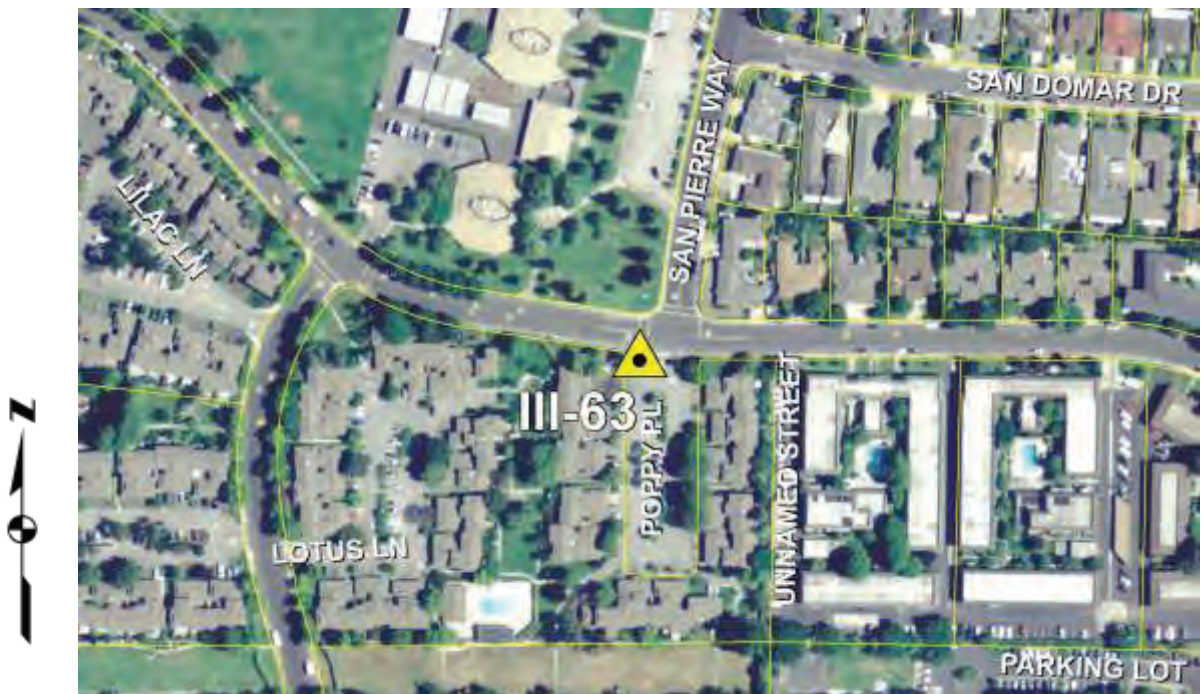
Site Photo



Point Photo



Location Photo



Elevation Feet:	76.130
Elevation Meters:	23.204
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "III-64" set in the top of curb at the northwest return of Ravendale Avenue at Bernardo Avenue

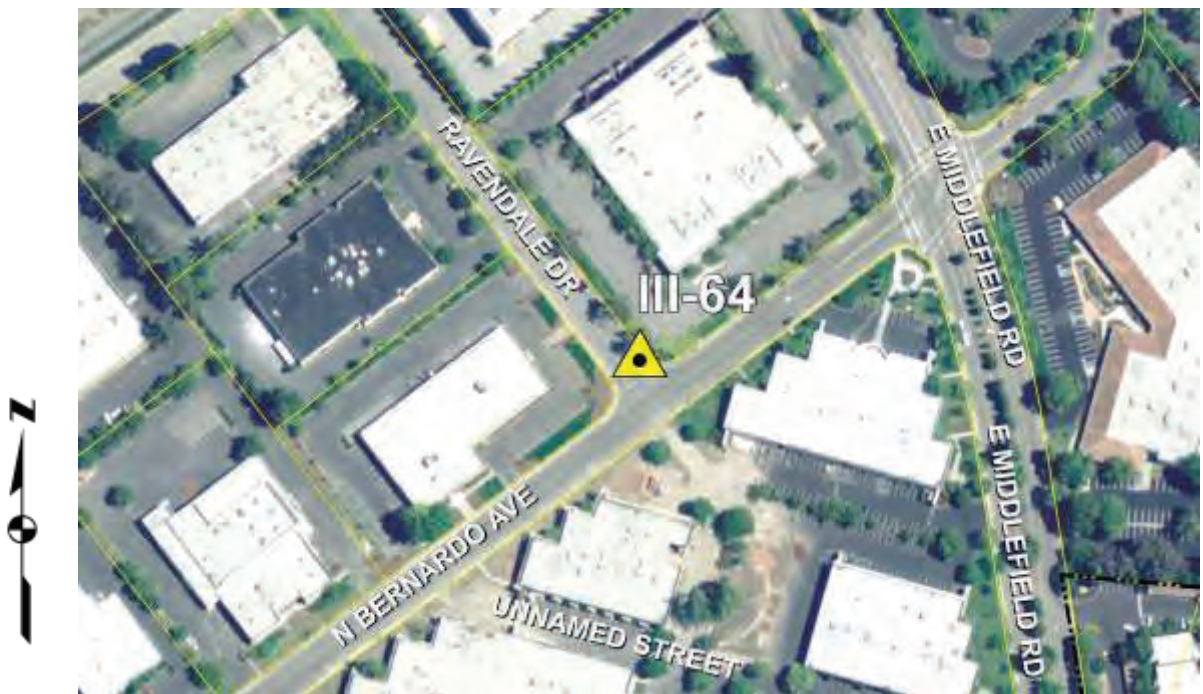
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**III-65**

Elevation Feet:	38.271
Elevation Meters:	11.665
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "III-65" set in the top of curb at the west end of curve on the south side of Fairchild Drive at Clyde Avenue

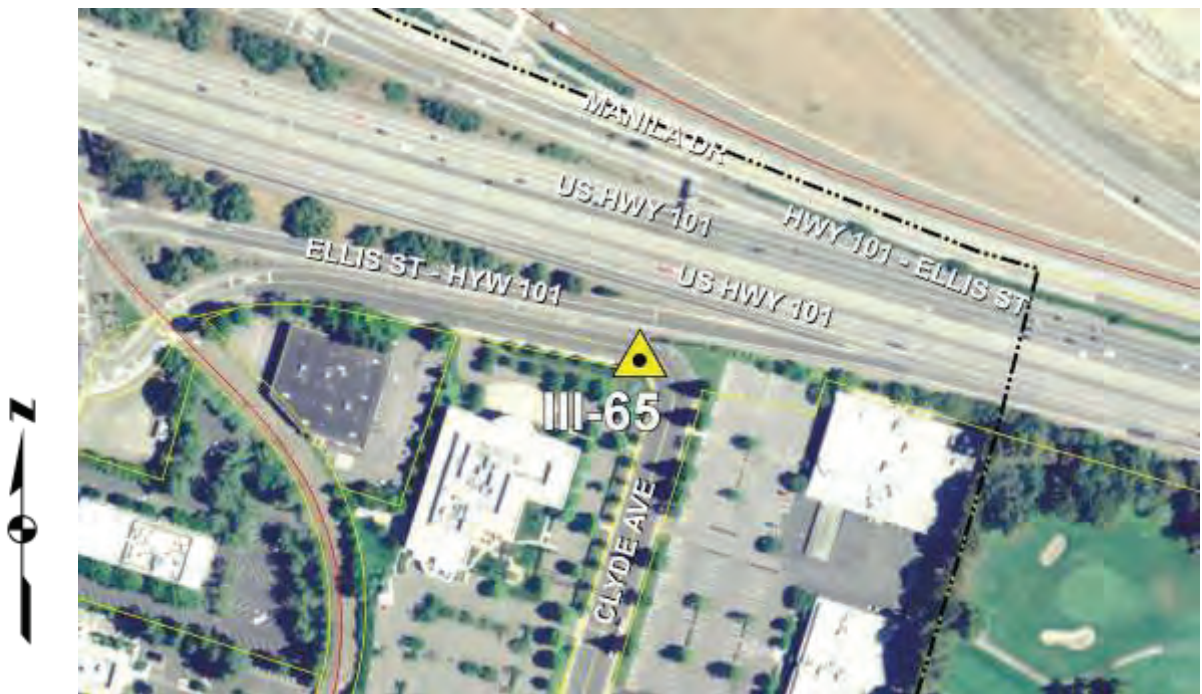
Site Photo



Point Photo



Location Photo









**Section IV**

**South – Central Area**

**(Caltrain Rail to El Camino Real)**

Elevation Feet:	56.194
Elevation Meters:	17.128
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-02" set in the top of curb at the north end of the northeast return of Showers Drive at California Street

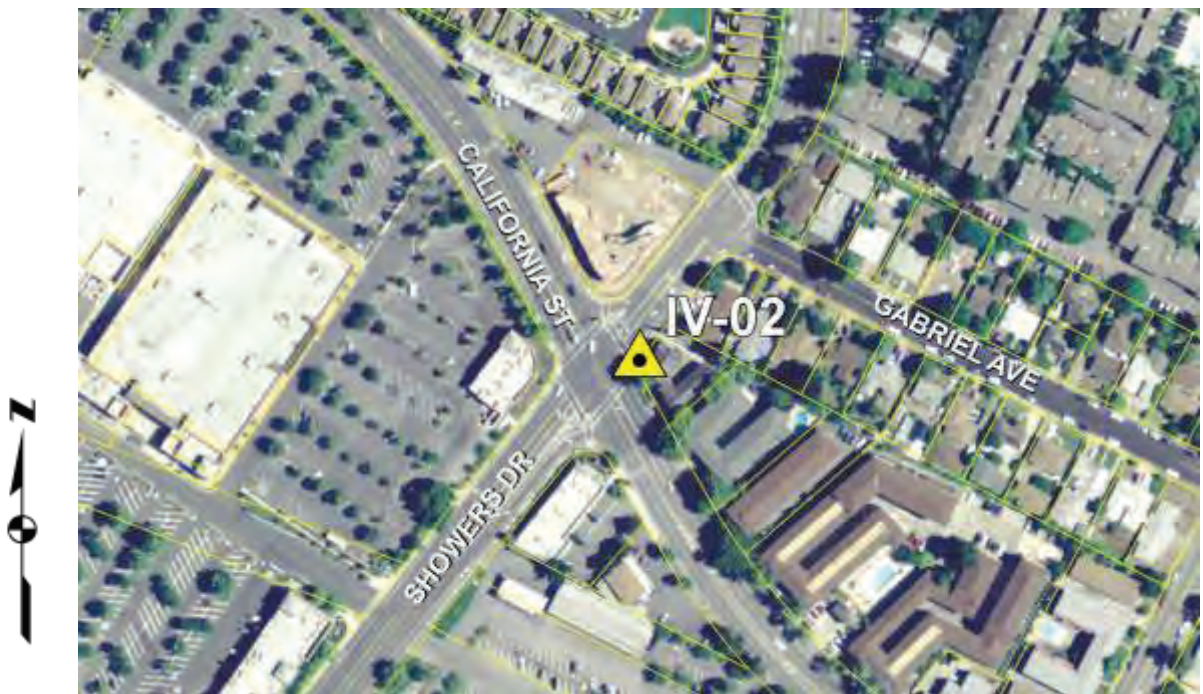
Site Photo



Point Photo



Location Photo





Elevation Feet:	80.401
Elevation Meters:	24.506
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-03" set in the top of curb at the north end of the northeast return of Ortega Avenue at El Camino Real

Site Photo



Point Photo



Location Photo





Elevation Feet:	78.249
Elevation Meters:	23.850
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-04" set in the top of curb at the south end of the southwest return of South Rengstorff Avenue at Latham Street

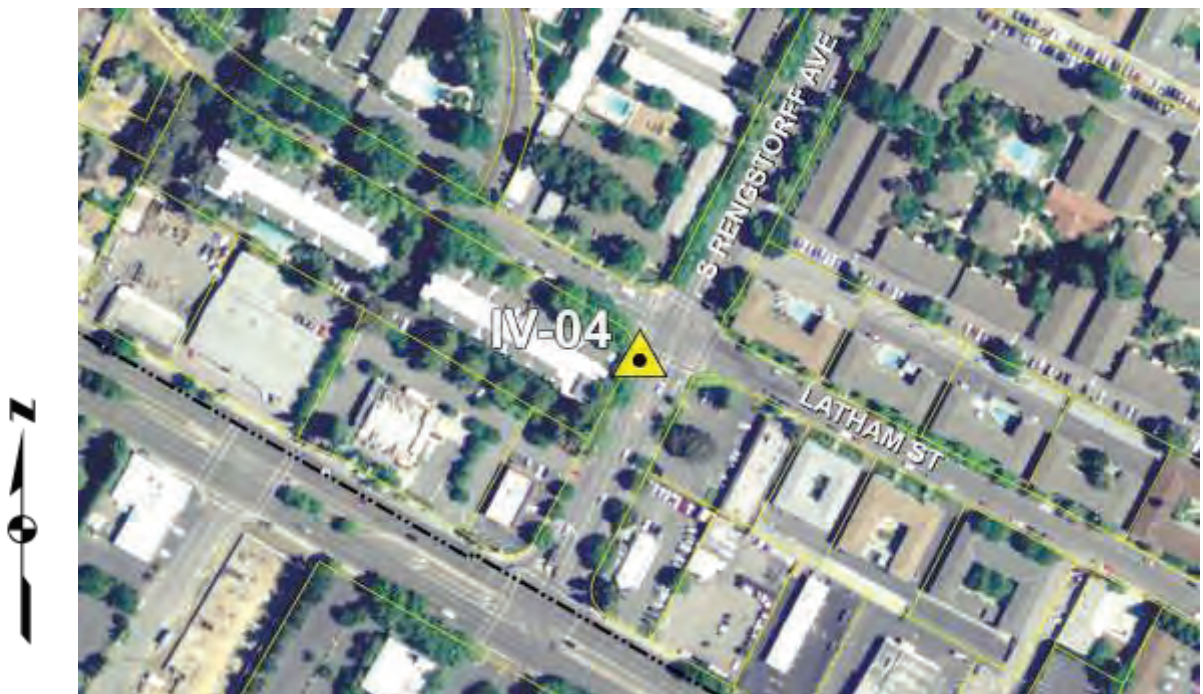
Site Photo



Point Photo



Location Photo





Elevation Feet:	66.707
Elevation Meters:	20.332
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-05" set in the top of curb at the southwest end of the northwest return of California Street at South Rengstorff Avenue

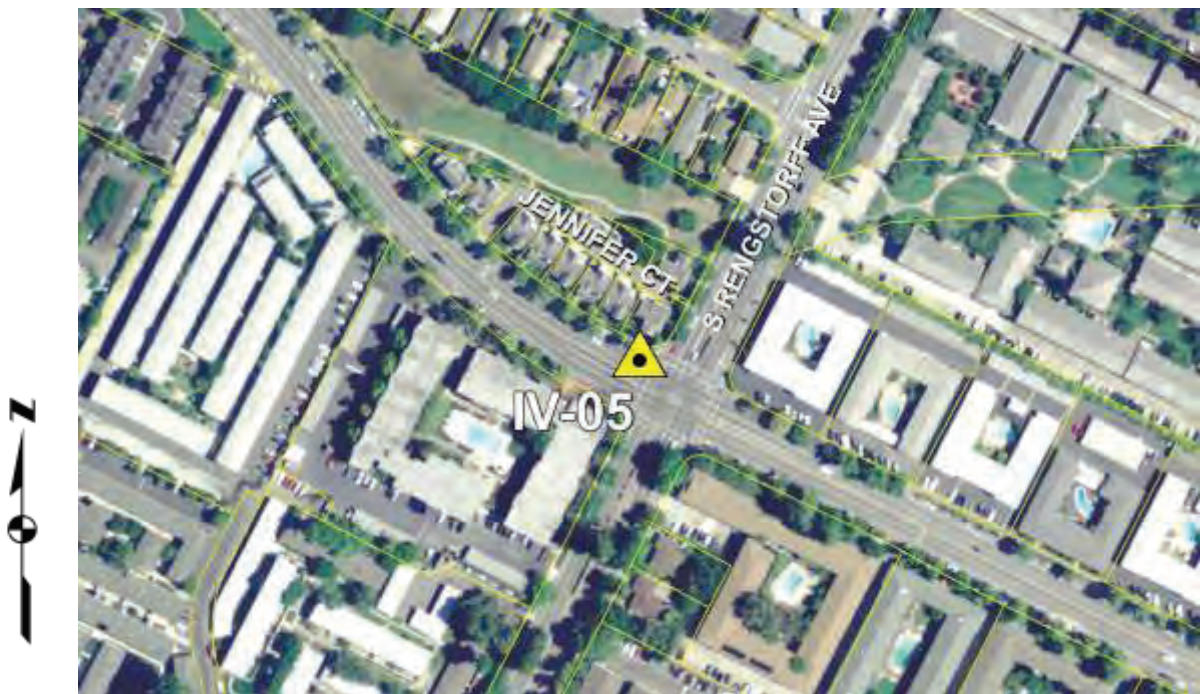
Site Photo



Point Photo



Location Photo





Elevation Feet:	75.552
Elevation Meters:	23.028
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-06" set in the top of curb at the west end of the northwest return of California Street at Escuela Avenue

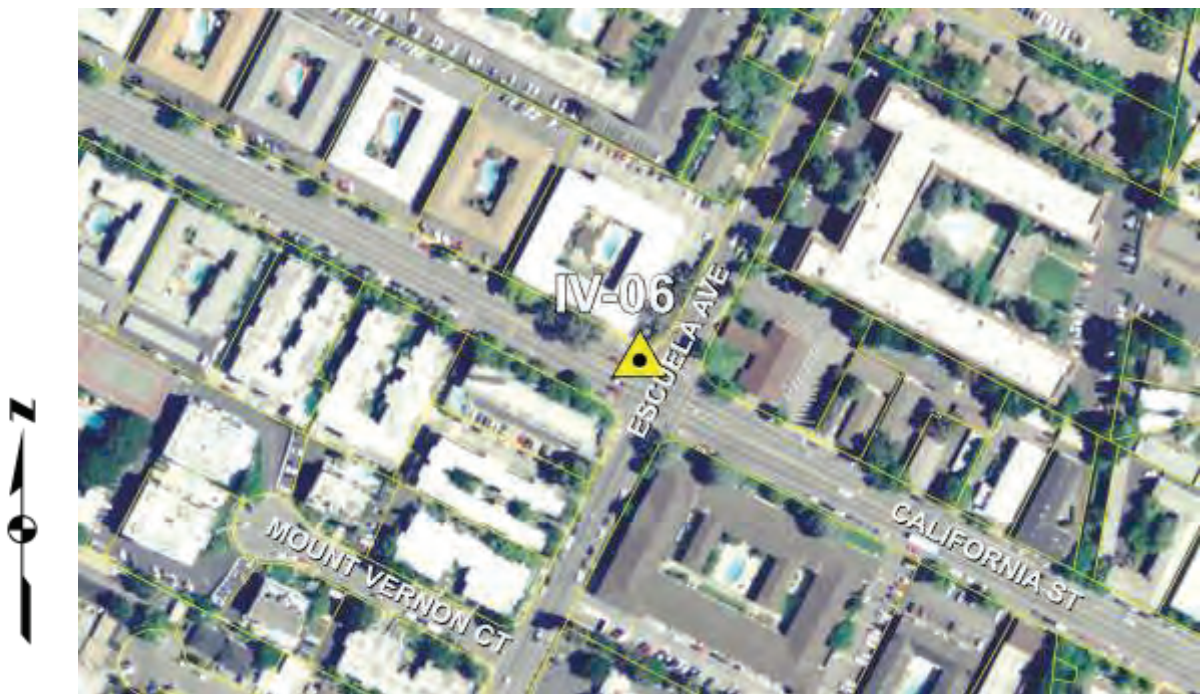
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**IV-07**  
**Reset**

Elevation Feet:	134.555
Elevation Meters:	41.012
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-07" set in the top of curb at the center of the northeast return of Sylvan Avenue at El Camino Real

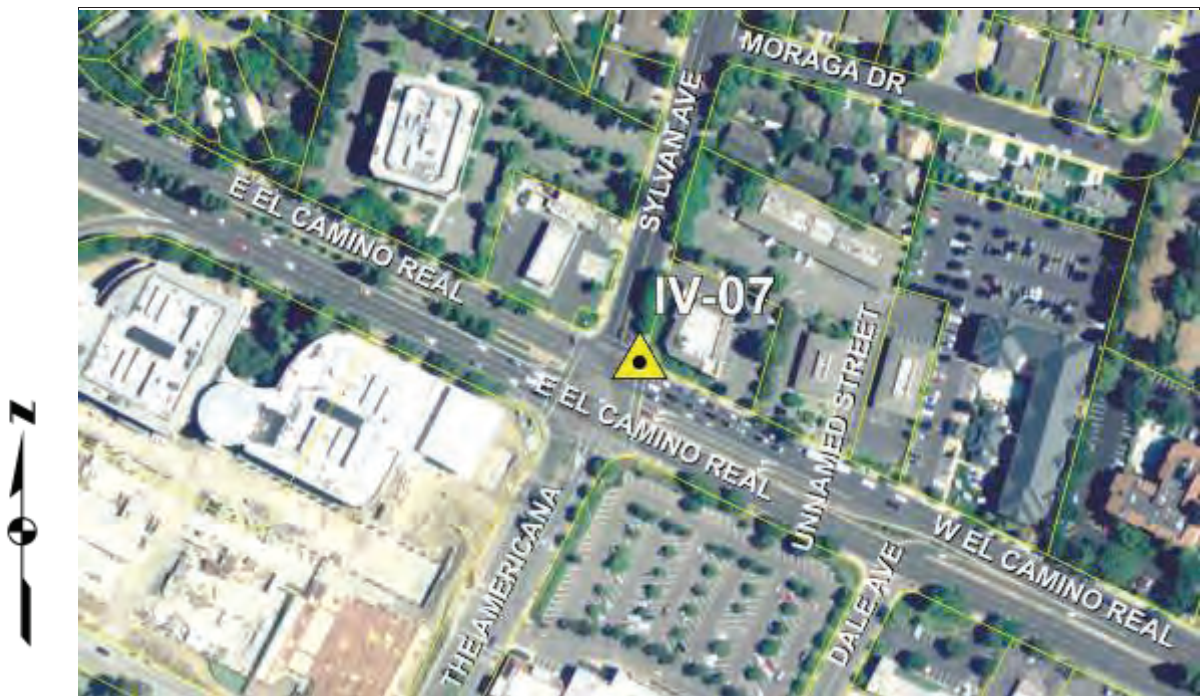
Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark: **IV-10**

Elevation Feet:	100.744
Elevation Meters:	30.707
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-10" set in the top of curb at the center of the northwest return of Dana Street at Pioneer Way

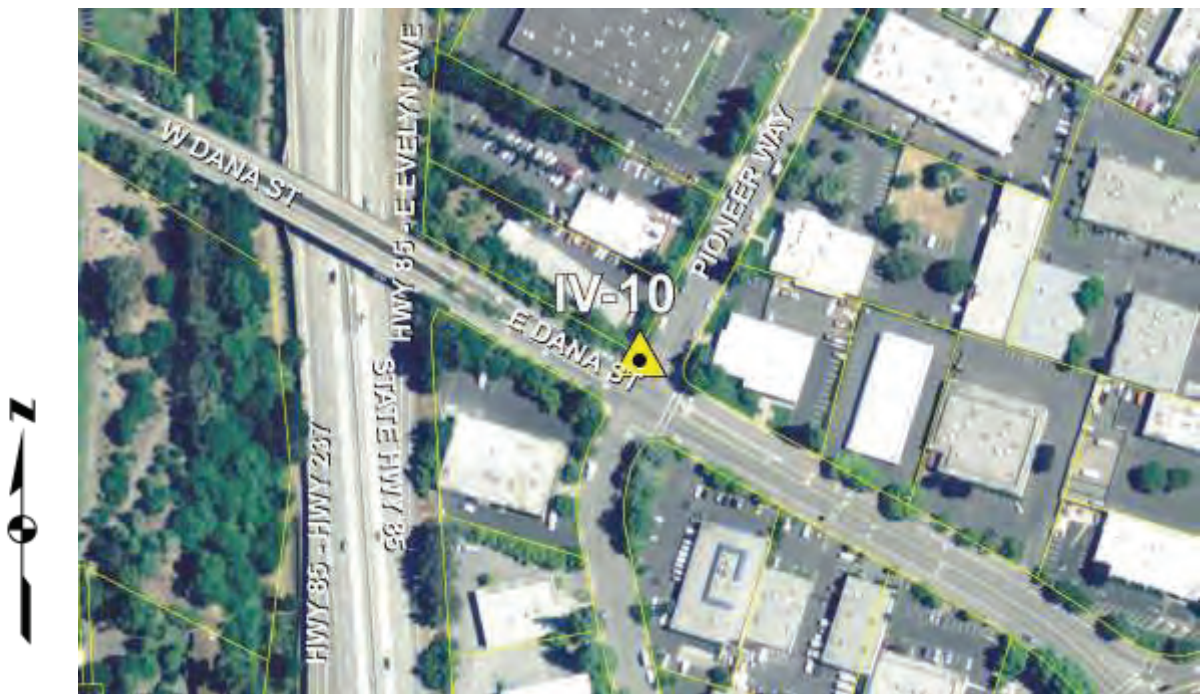
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-11**

Elevation Feet:	49.767
Elevation Meters:	15.169
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-11" set in the top of curb at the center of the southeast return of California Street at San Antonio Road

Site Photo



Point Photo



Location Photo





Elevation Feet:	52.098
Elevation Meters:	15.879
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-12" set in the top of curb at the center of the southeast return of Ortega Avenue at Mora Drive

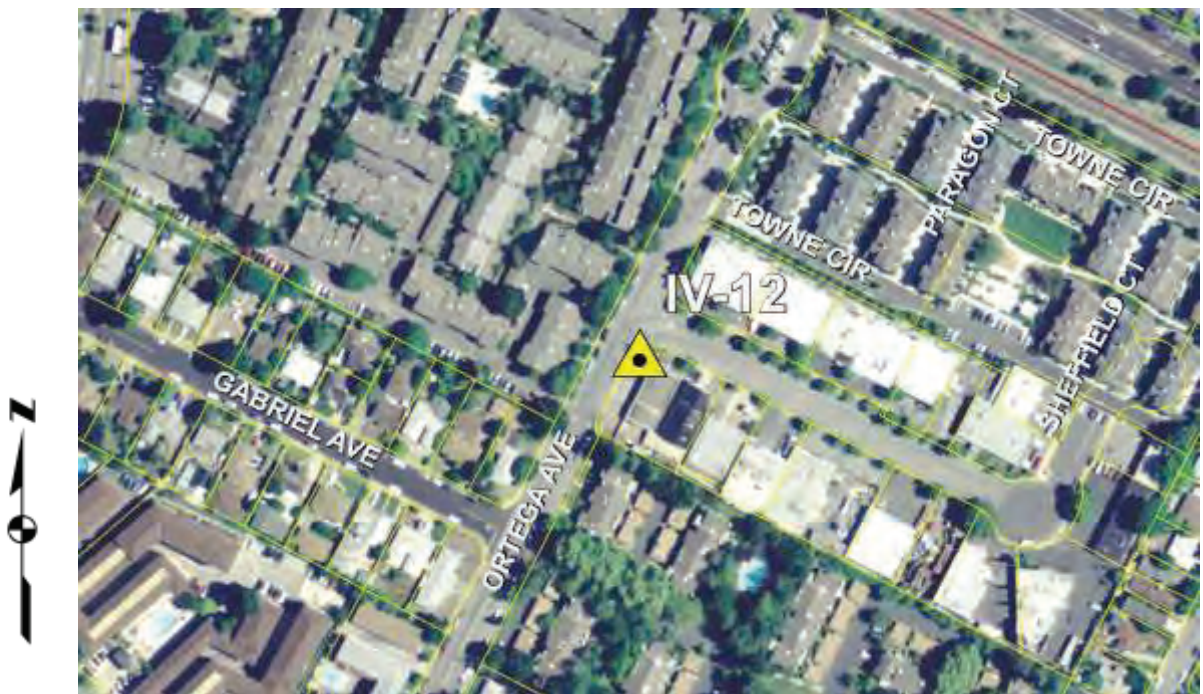
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark: **IV-13**

Elevation Feet:	86.218
Elevation Meters:	26.279
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "IV-13" set in the top of curb at the north end of the northeast return of Bryant Street at Mercy Street

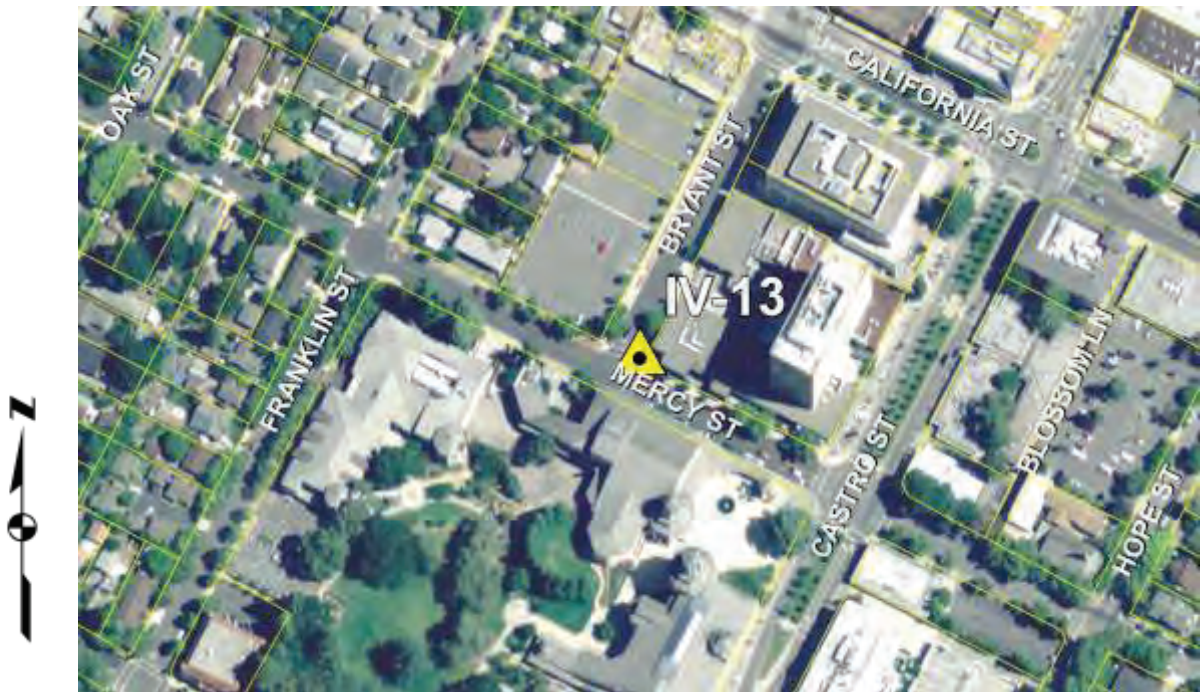
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-16**

Elevation Feet:	85.809
Elevation Meters:	26.155
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-16" set in the top of curb at the center of the southwest return of Villa Street at Calderon Avenue

Site Photo



Point Photo



Location Photo





Elevation Feet:	46.232
Elevation Meters:	14.091
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-22" set in the top of curb at the south end of the southeast return of California Street at Del Medio Avenue

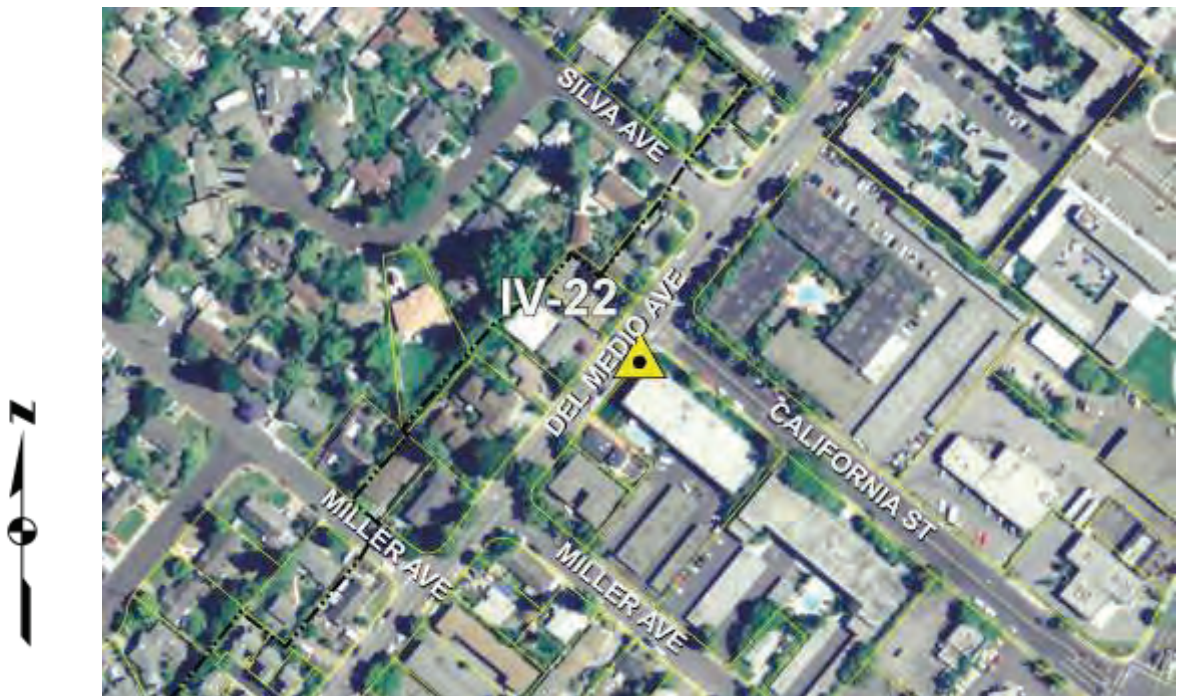
Site Photo



Point Photo



Location Photo





Elevation Feet:	104.761
Elevation Meters:	31.931
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-24" set in the top of curb at the northwesterly corner of Castro Street and El Camino Real approximately 100 feet west of the westerly R/W of Castro Street

Site Photo



Point Photo



Location Photo





Elevation Feet:	76.789
Elevation Meters:	23.405
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-25" set in the top of curb at the north end of the northwest return of Showers Drive at El Camino Real

Site Photo



Point Photo



Location Photo





Elevation Feet:	106.505
Elevation Meters:	32.463
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-26" set in the top of curb at the southwest return of Church Street at Calderon Avenue

Site Photo



Point Photo



Location Photo





Elevation Feet:	97.020
Elevation Meters:	29.572
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-29" set in the top of curb at the northwest return of Calderon Avenue at Mercy Street

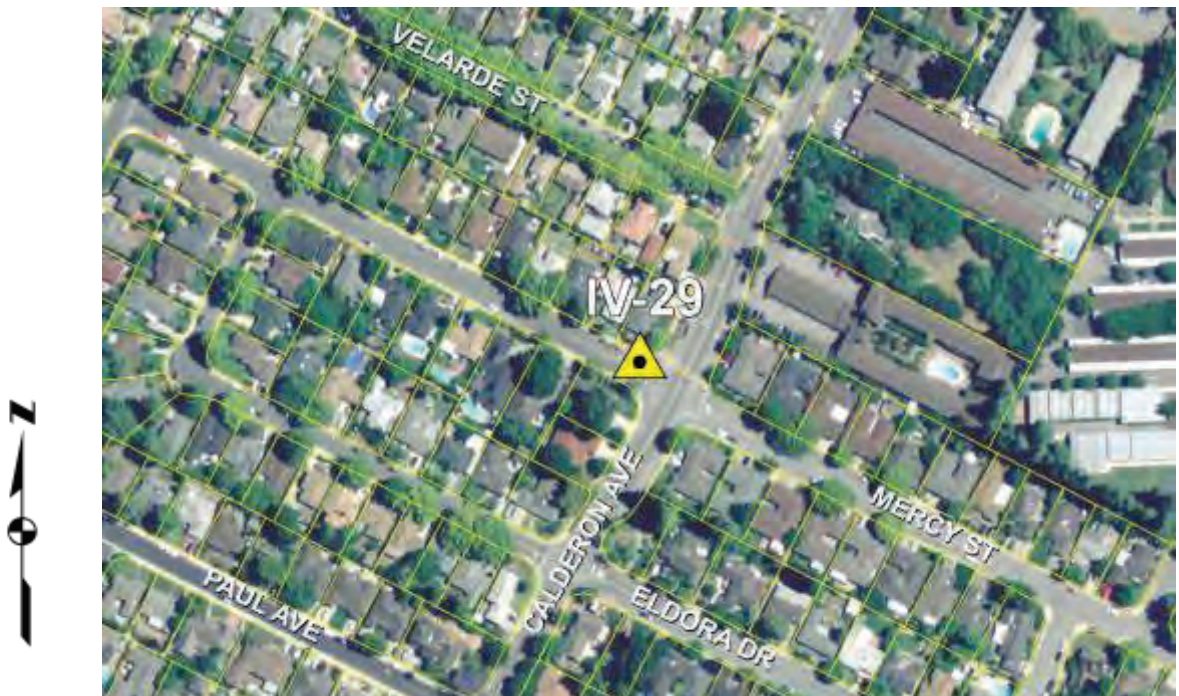
Site Photo



Point Photo



Location Photo





Elevation Feet:	98.093
Elevation Meters:	29.899
Adjusted:	2010
Datum:	NAVD 1988

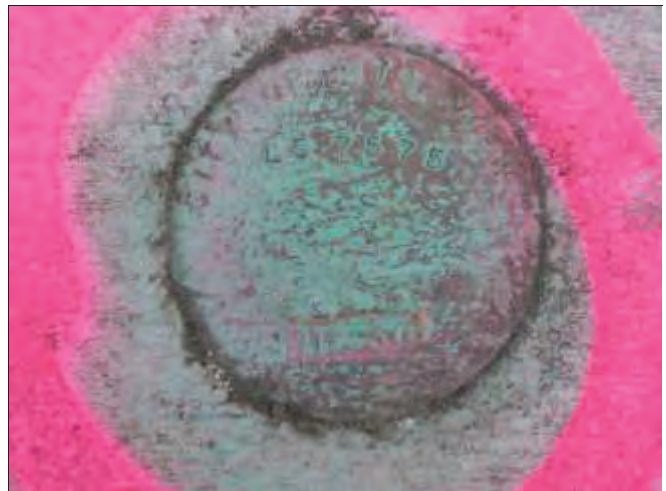
**Description:**

Bronze disk stamped "IV-30" set in the top of curb at the east side of the northeast return of Church Street and Bush Street

Site Photo



Point Photo



Location Photo





Elevation Feet:	80.106
Elevation Meters:	24.416
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-33" set in the top of curb at the northwest return of Dana Street at Hope Street

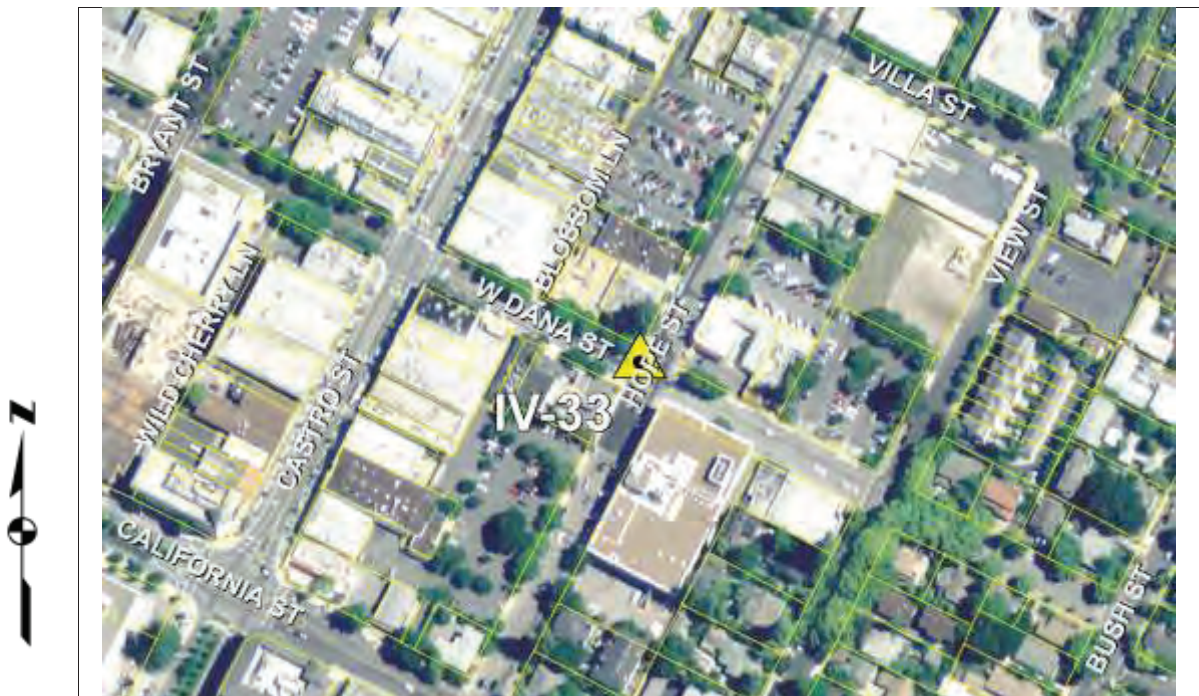
Site Photo



Point Photo



Location Photo





Elevation Feet:	107.413
Elevation Meters:	32.740
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-34" set in the top of curb at the center of the southeast return of Paul Avenue at Patricia Court

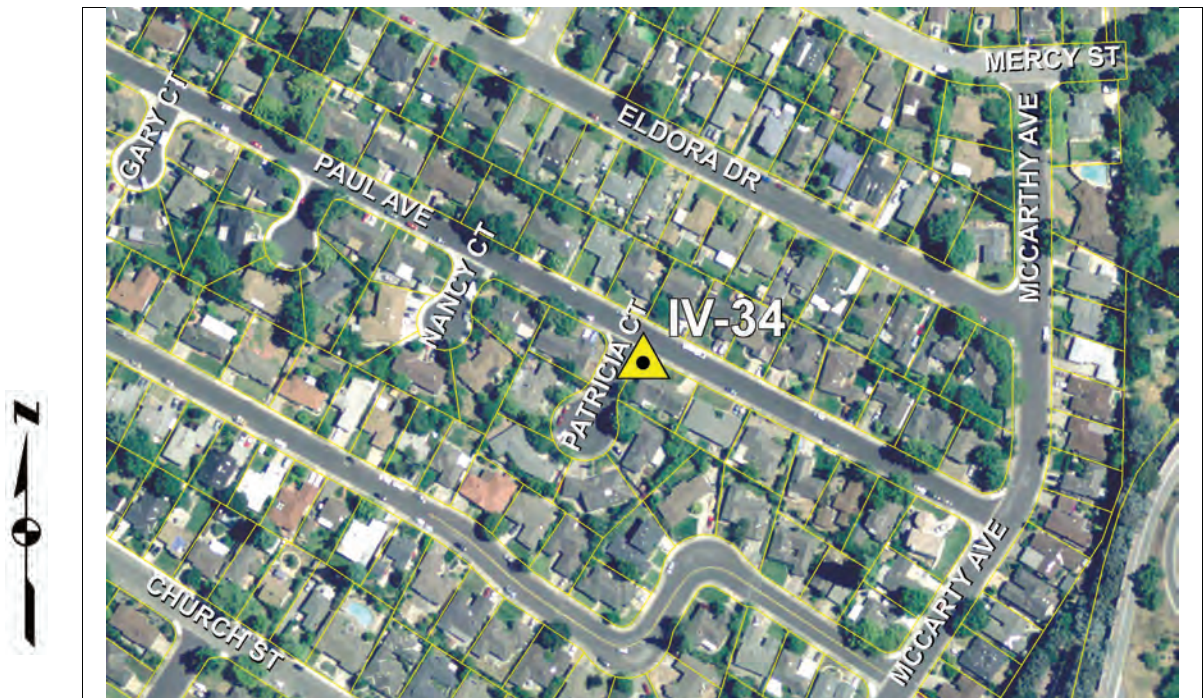
Site Photo



Point Photo



Location Photo





Elevation Feet:	118.288
Elevation Meters:	36.054
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-35 set in the top of curb at the south end of the southeast return of Sylvan Avenue at Sevely Drive

Site Photo



Point Photo



Location Photo



Elevation Feet:	106.700
Elevation Meters:	32.522
Adjusted:	2010
Datum:	NAVD 1988

Description:  
Bronze disk stamped "IV-37 set in the top of curb at the west end of the southwest return of Sylvan Avenue at Moorpark Way

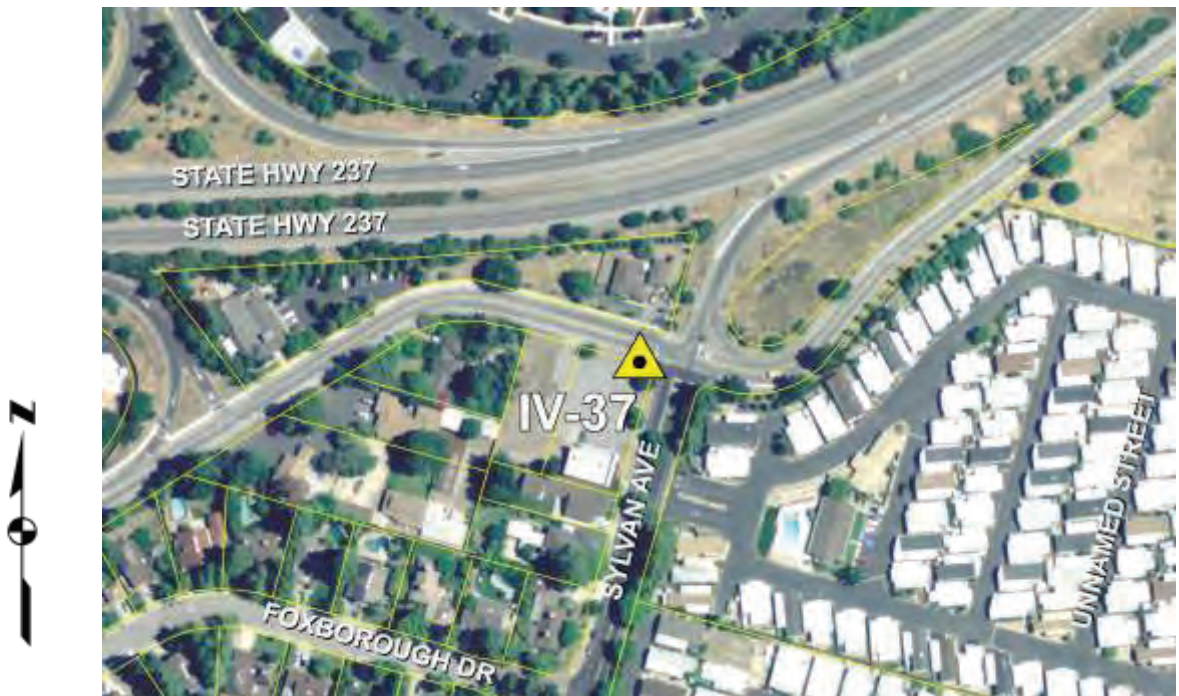
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**IV-39**

Elevation Feet:	112.272
Elevation Meters:	34.221
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "IV-39" set in the top of curb on the northwest side of Moorpark Way, 400'± south of Dana Street

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark:

**IV-40**

Elevation Feet:	93.976
Elevation Meters:	28.644
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-40" set in the top of curb at the southwest return of Evelyn Avenue at Bernardo Avenue

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-41**

Elevation Feet:	76.916
Elevation Meters:	23.444
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-41" set in the top of curb at the center of the northwest return of South Shoreline Boulevard at Dana Street

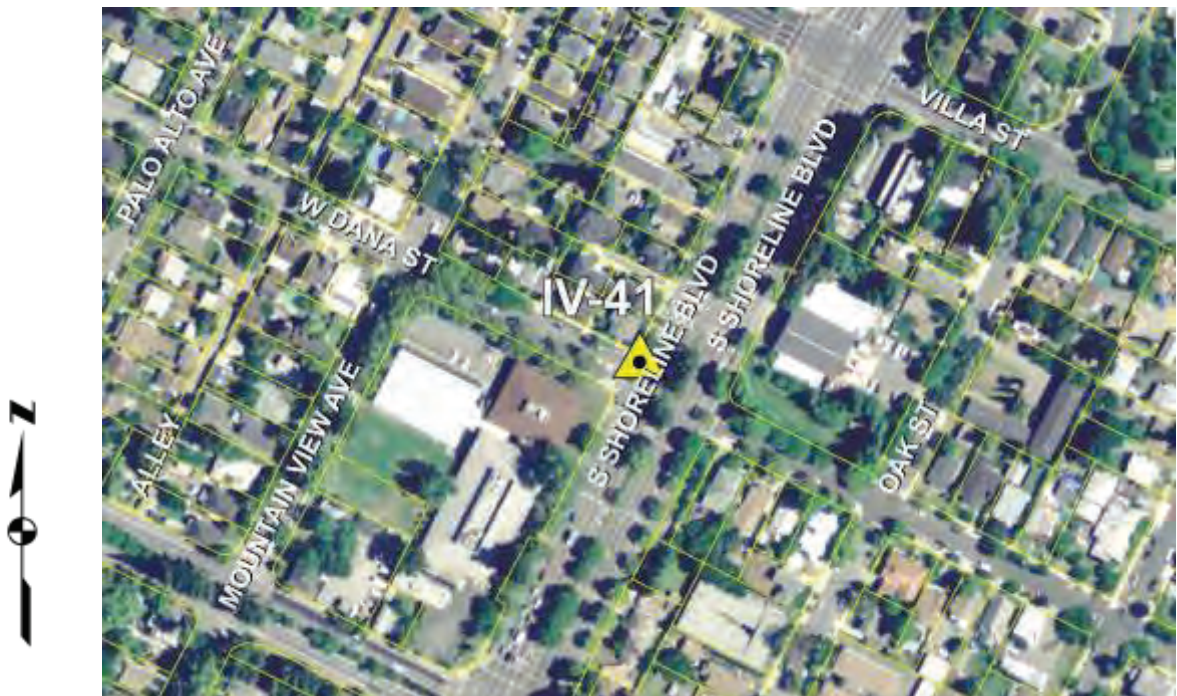
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-43**

Elevation Feet:	95.820
Elevation Meters:	29.206
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-43" set in the top of curb at the center of the northwest return of South Shoreline Boulevard at Snow Street

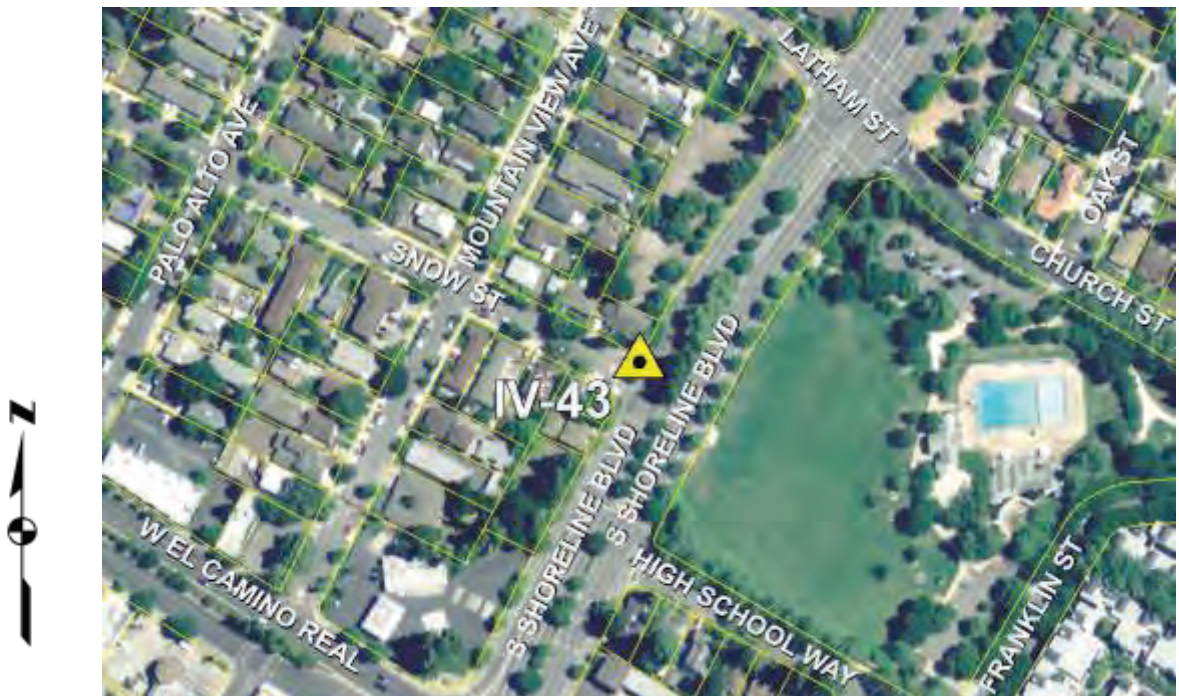
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-44**

Elevation Feet:	100.622
Elevation Meters:	30.670
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-44" set in the top of curb at the center of the northeast return of Mariposa Avenue at El Camino Real

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-45**

Elevation Feet:	88.432
Elevation Meters:	26.954
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-45" set in the top of curb at the north end of the northwest return of Escuela Avenue at El Camino Real

Site Photo



Point Photo



Location Photo





Elevation Feet:	78.992
Elevation Meters:	24.077
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-46" set in the top of curb at the west end of the northwest return of California Street at Pettis Avenue

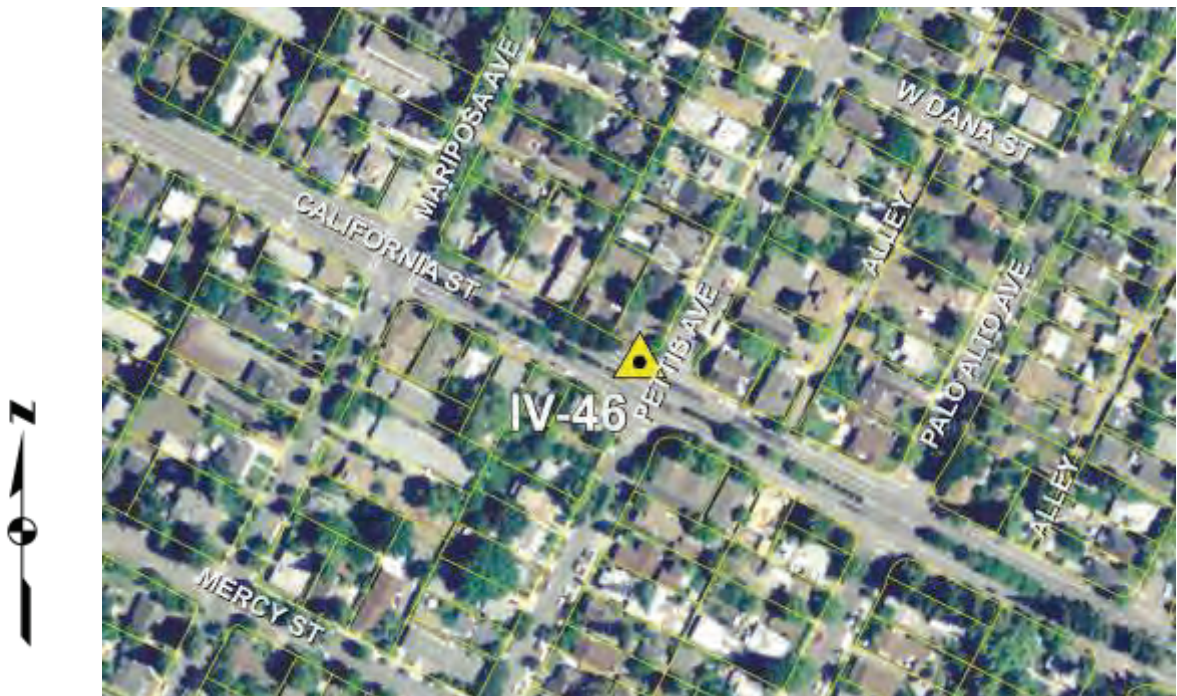
Site Photo



Point Photo



Location Photo







**Vertical Control**

**Benchmark:**

**IV-47**

Elevation Feet:	124.602
Elevation Meters:	37.979
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "IV-47" set in the top of curb at the center of the northeast return of Yuba Drive at El Camino Real

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark: **IV-49**

Elevation Feet:	71.745
Elevation Meters:	21.868
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "IV-49" set in the top of curb at the west end of the northwest return of Evelyn Avenue at Castro Street

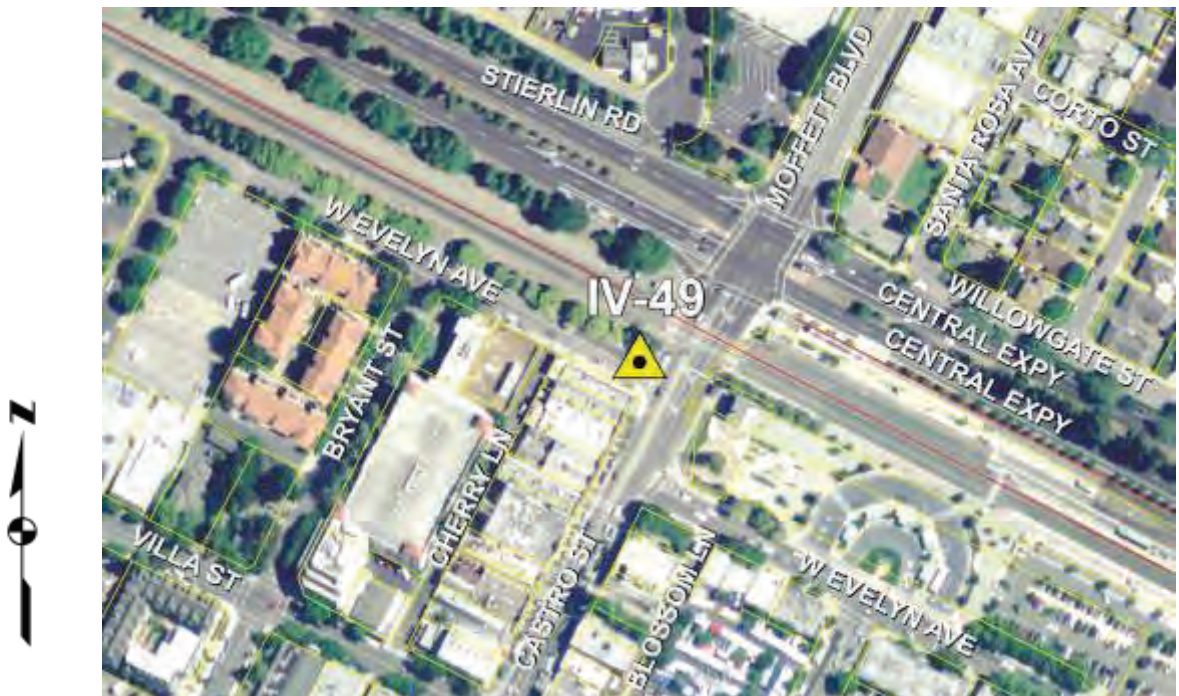
Site Photo



Point Photo



Location Photo









**Section V**

**South Area**

**(El Camino Real Southward)**

Elevation Feet:	143.150
Elevation Meters:	43.632
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-05" set in the top of curb at the north end of the northwest return of Grant Road at Cuesta Drive

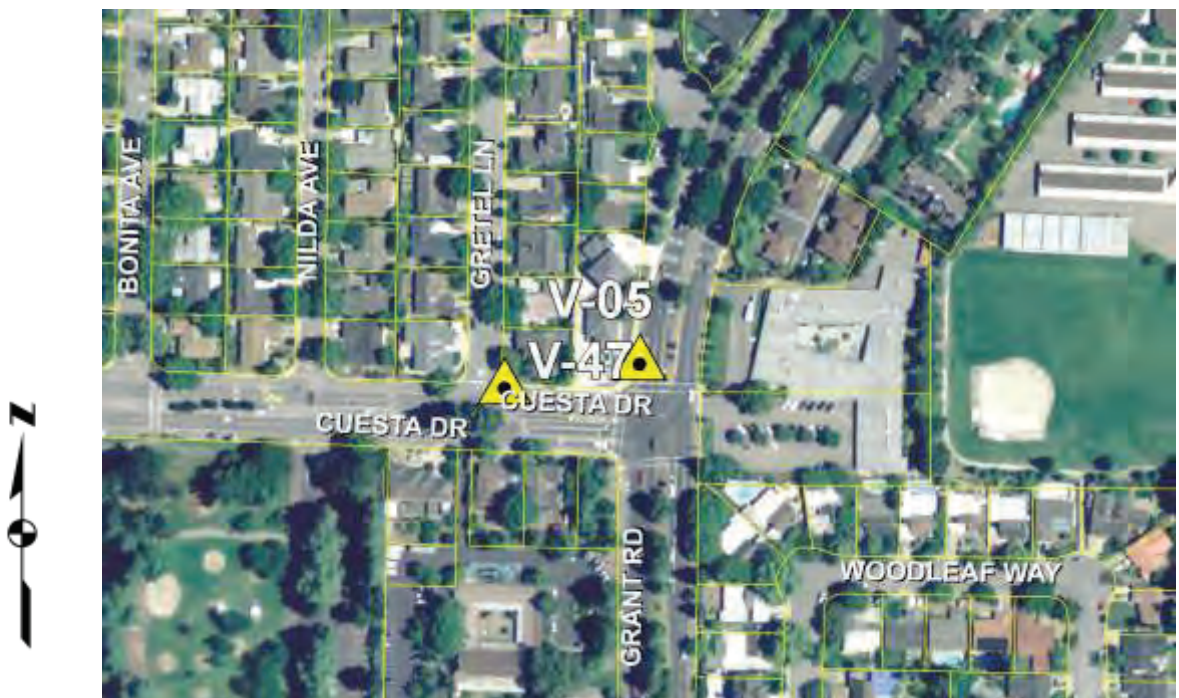
Site Photo



Point Photo



Location Photo





Elevation Feet:	129.321
Elevation Meters:	39.417
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-06" set in the top of curb at the center of the southwest return of Phyllis Avenue at Barbara Avenue

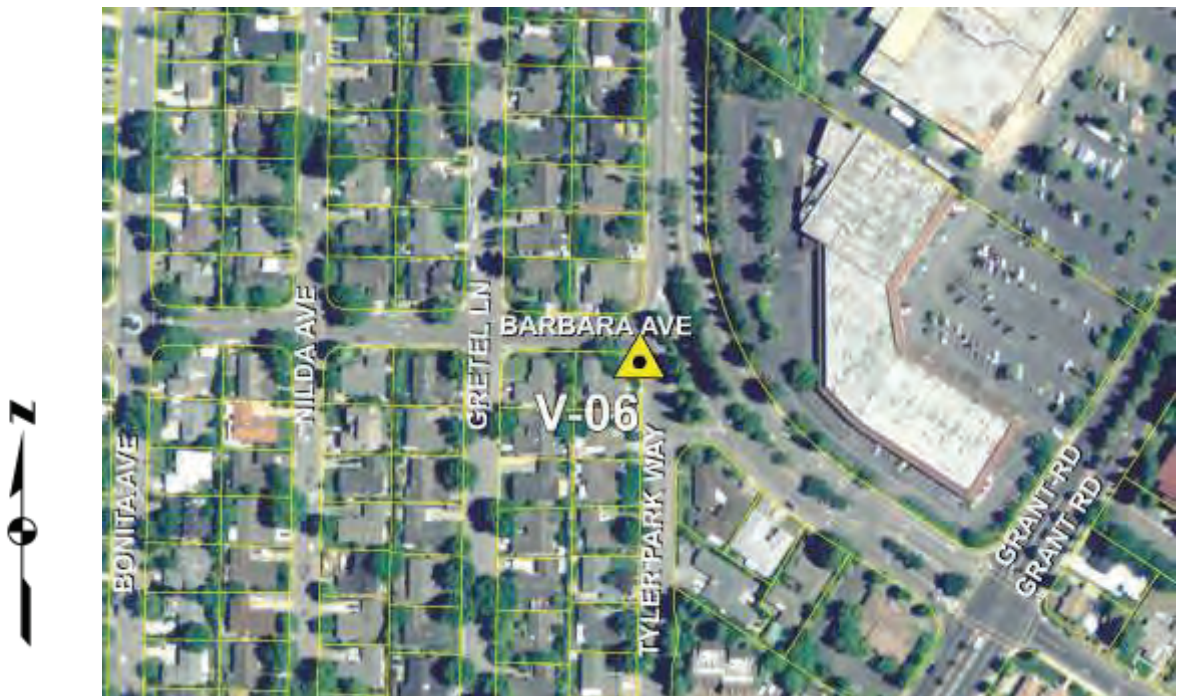
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-07**

Elevation Feet:	119.050
Elevation Meters:	36.287
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-07" set in the top of curb at the center of the southwest return of Phyllis Avenue at Katie Avenue

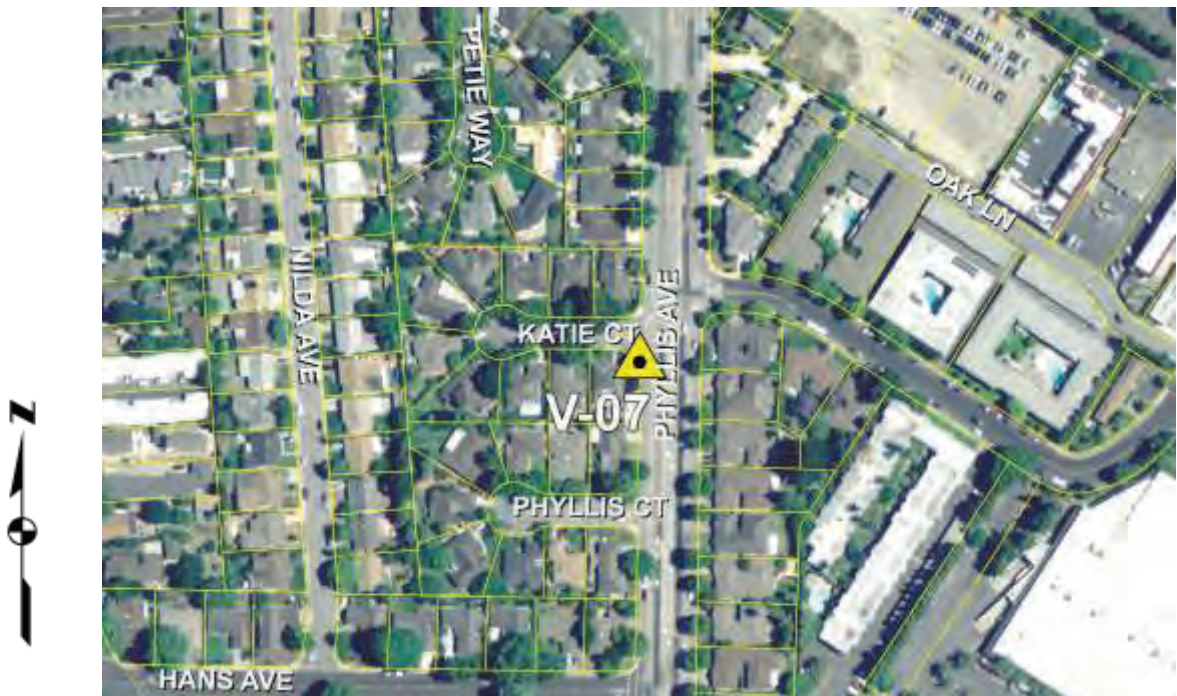
Site Photo



Point Photo



Location Photo



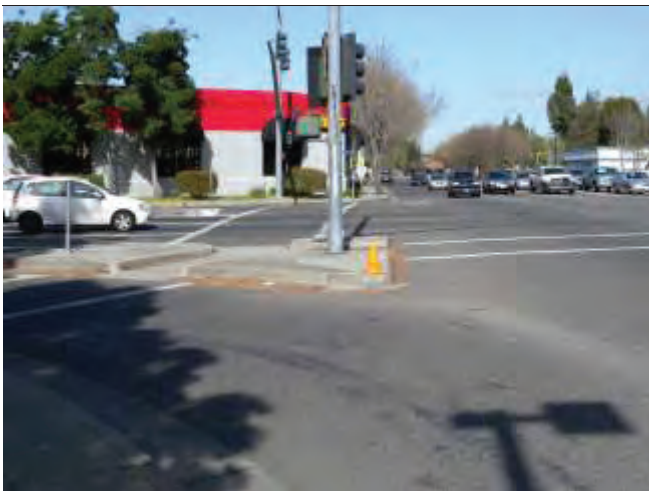


Elevation Feet:	114.592
Elevation Meters:	34.928
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Brass disk stamped "V-08" set in the top of curb on the easterly nose of the small right-turn island at the intersection of El Camino Real and Phyllis Avenue

Site Photo



Point Photo



Location Photo



Elevation Feet:	137.813
Elevation Meters:	42.006
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-09" set in the top of curb at the center of the northwest return of Cuesta Drive at Montalto Drive

Site Photo



Point Photo



Location Photo





Elevation Feet:	141.032
Elevation Meters:	42.987
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-10" set in the top of OLD P.C.C curb at the center of the northeast return of Cuesta Drive at Miramonte Avenue

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark: **V-10A**

Elevation Feet:	140.848
Elevation Meters:	42.930
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-10" set in the top of NEW P.C.C curb at the center of the northeast return of Cuesta Drive at Miramonte Avenue

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-11**

Elevation Feet:	125.910
Elevation Meters:	38.377
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-11" set in the top of curb at the north side of Barbara Avenue opposite the centerline of Lola Lane

Site Photo



Point Photo



Location Photo



Elevation Feet:	89.864
Elevation Meters:	27.391
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-13" set in the top of curb on the south side of El Camino Real opposite the centerline of Escuela Avenue

Site Photo



Point Photo



Location Photo





Elevation Feet:	125.852
Elevation Meters:	38.360
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-14" set in the top of curb southeast return of Miramonte Avenue at Hans Avenue

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-15**

Elevation Feet:	120.408
Elevation Meters:	36.701
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-15" set in the top of curb at the center of the northeast return of Boranda Avenue at Hans Avenue

Site Photo



Point Photo



Location Photo





Elevation Feet:	152.283
Elevation Meters:	46.416
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-16" set in the top of curb at the south end the southeast return of Springer Road at Cuesta Drive

Site Photo



Point Photo



Location Photo



Elevation Feet:	111.004
Elevation Meters:	33.834
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-19" set in the top of curb at the west side of Miramonte Avenue opposite the north P/L of Harpster Drive

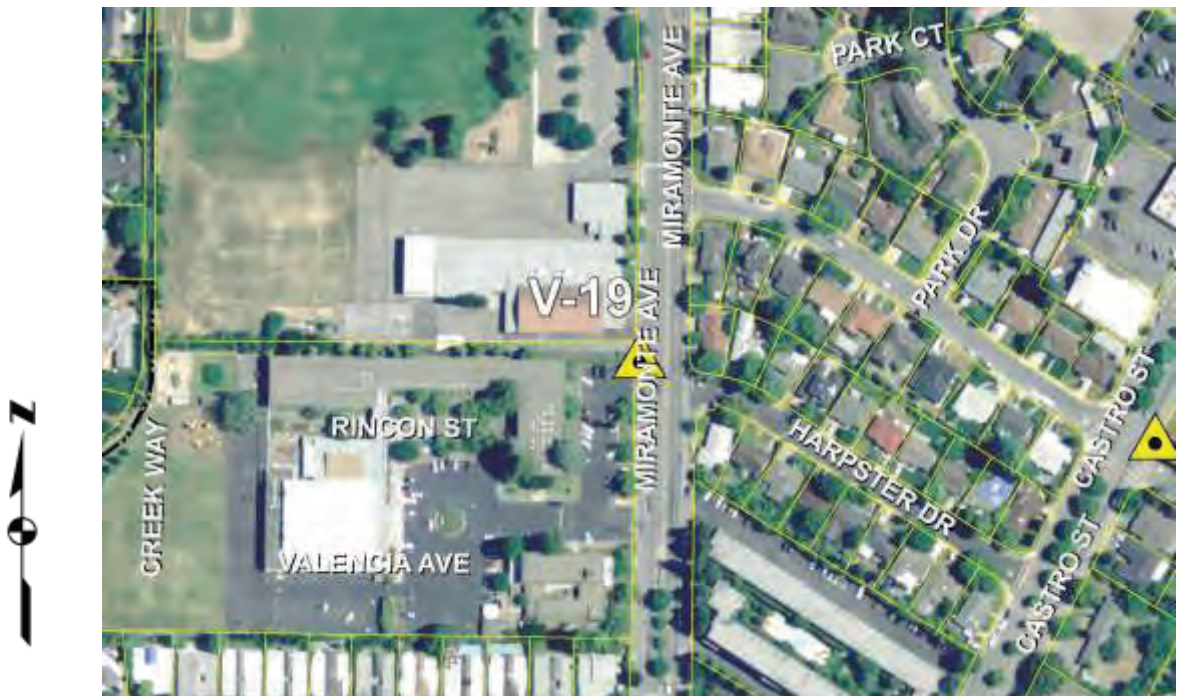
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**V-20**

Elevation Feet:	114.678
Elevation Meters:	34.954
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "V-20" set in the top of curb at the center of the southeast return of El Monte Avenue at Lloyd Drive

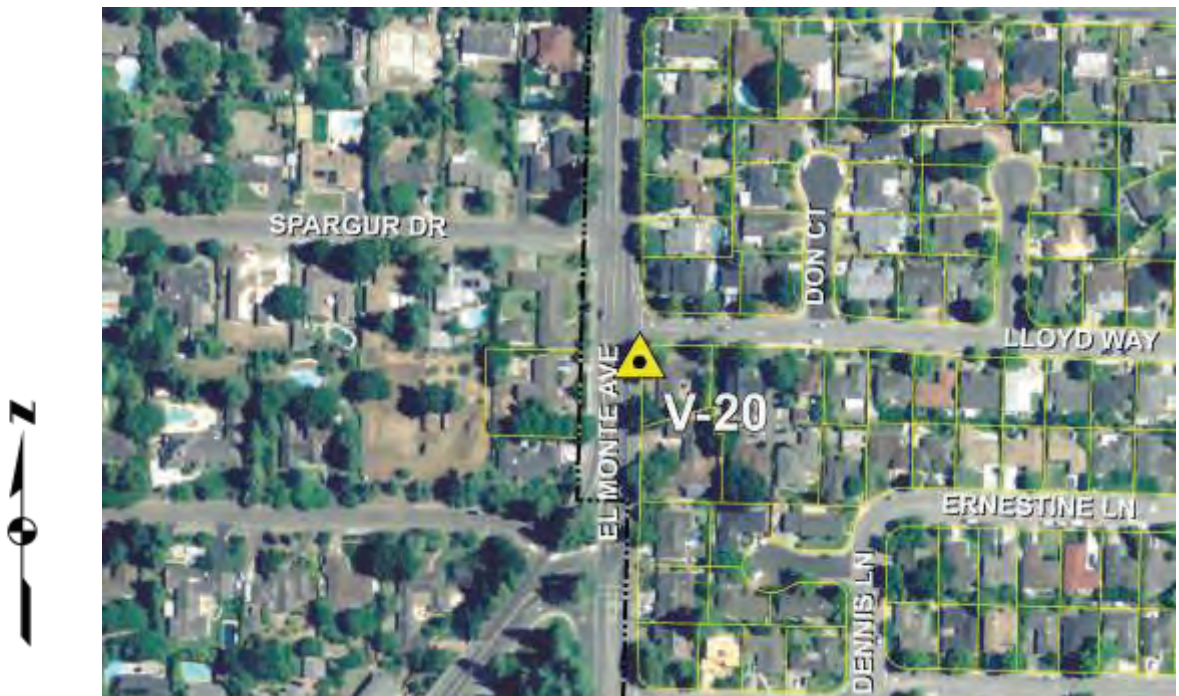
Site Photo



Point Photo



Location Photo



Elevation Feet:	100.196
Elevation Meters:	30.540
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-21" set in the top of curb at the center of the southwest return of El Monte Avenue at Marich Way

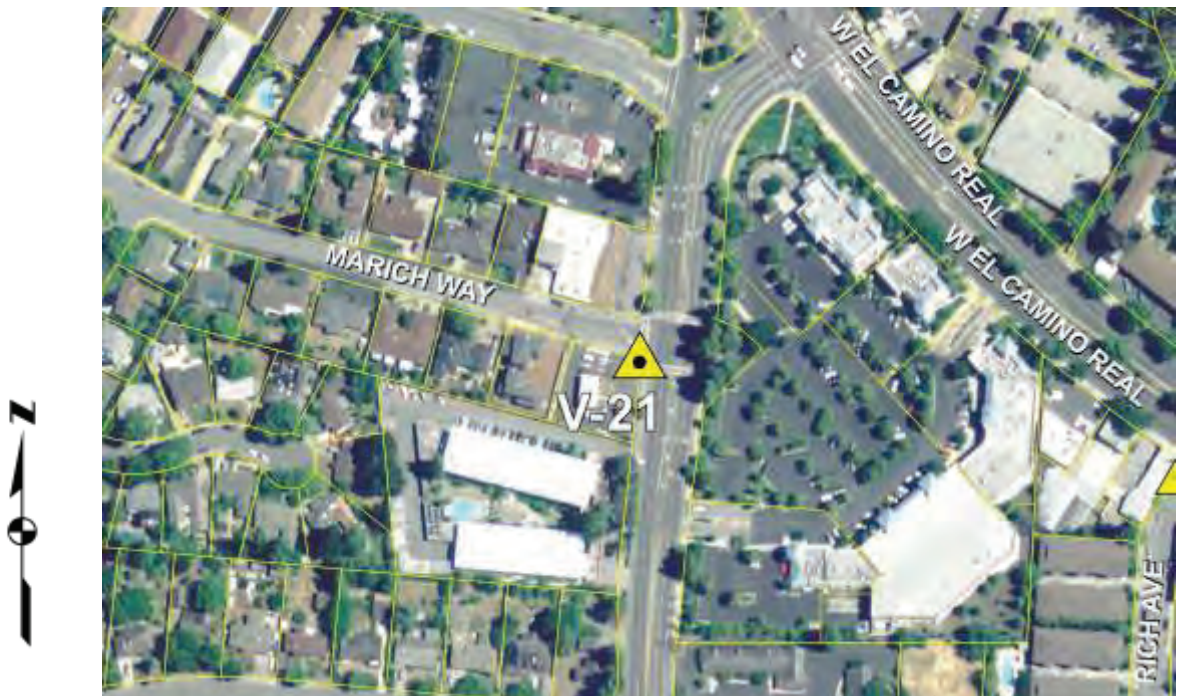
Site Photo



Point Photo



Location Photo





Elevation Feet:	114.156
Elevation Meters:	34.795
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-22" set in the top of curb at the center of the southeast return of Pilgram Avenue at Blackfield Way

Site Photo



Point Photo



Location Photo





Elevation Feet:	106.733
Elevation Meters:	32.532
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-23" set in the top of curb at the center of the southwest return of Cecilia Way at Solana Drive

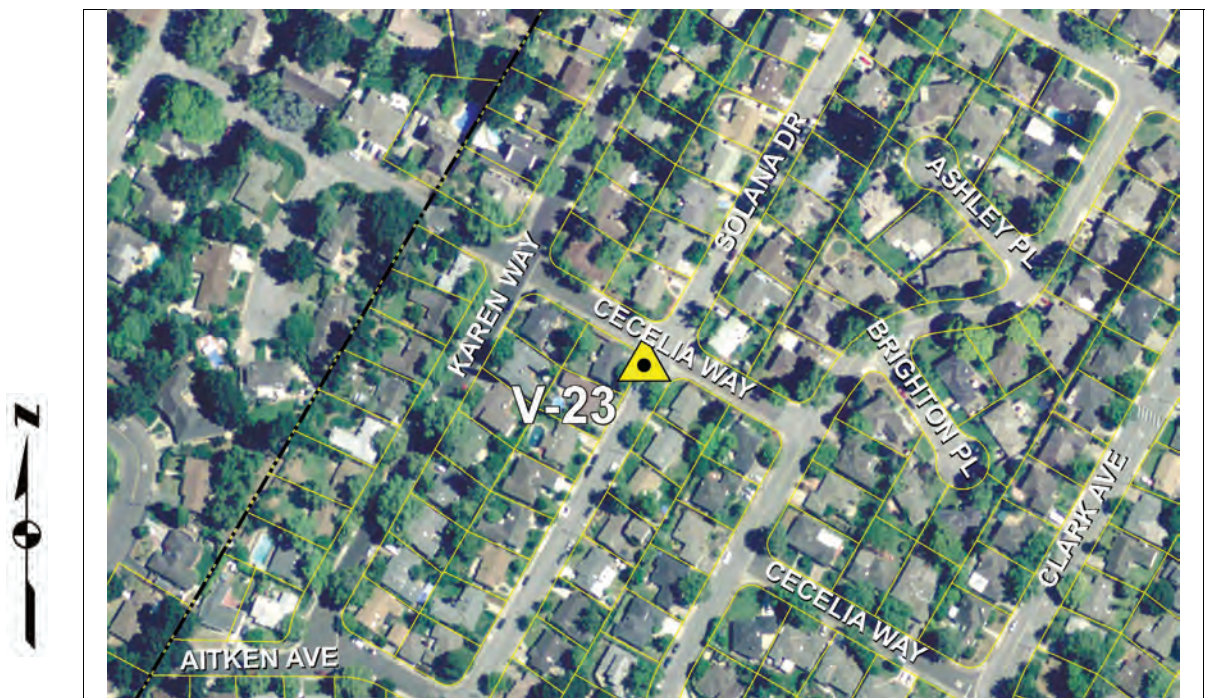
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-24**  
**Reset**

Elevation Feet:	151.974
Elevation Meters:	46.322
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-24" set in the top of curb adjacent to catch basin on the east side of Franklin Street 15'± south of the centerline of Sleeper Avenue

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark:

**V-25**

Elevation Feet:	149.015
Elevation Meters:	45.420
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-25" set in the top of curb at the center of the southeast return of Sleeper Avenue at Carol Avenue

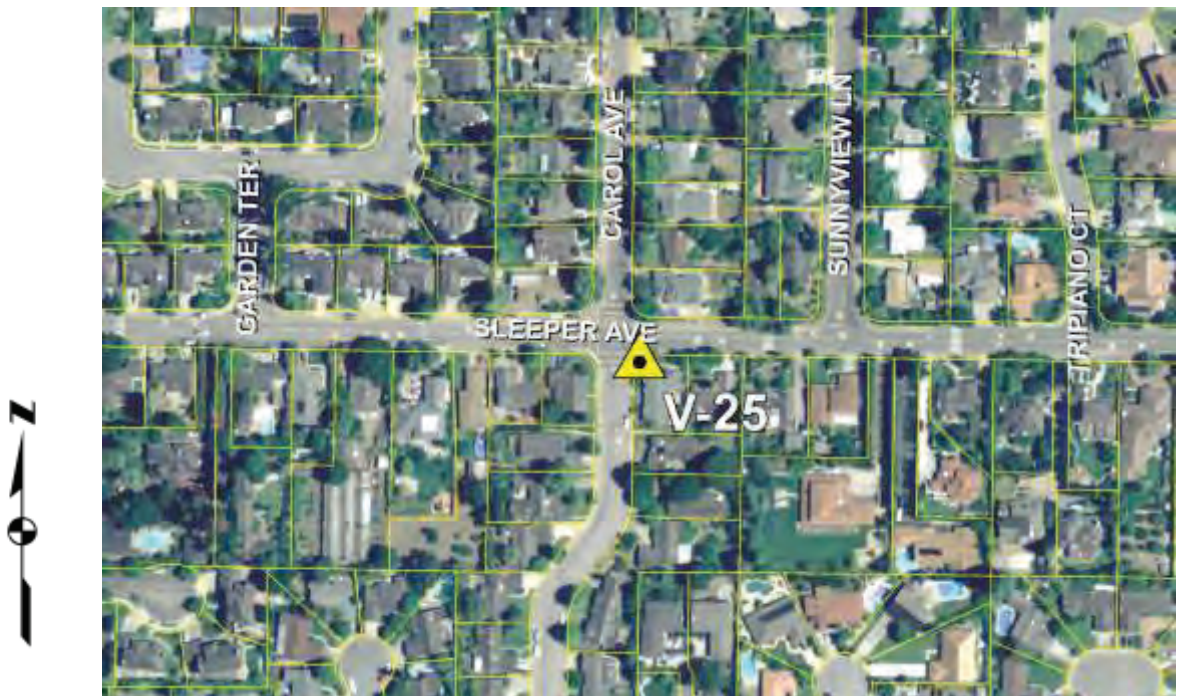
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

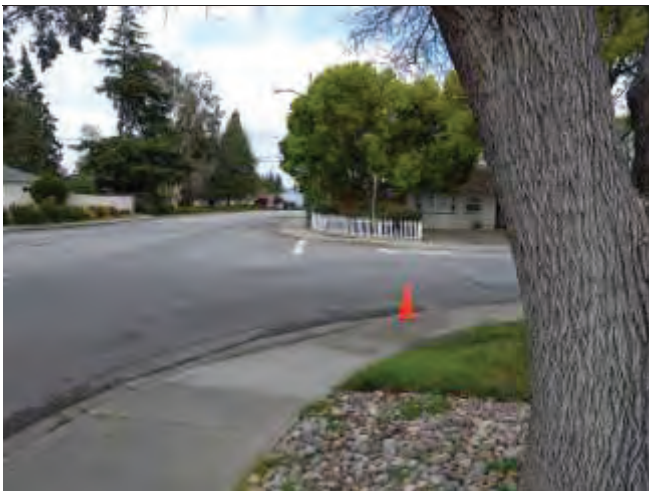
**V-26**

Elevation Feet:	135.435
Elevation Meters:	41.281
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-26" set in the top of curb at the center of the southeast return of Tulane Drive at Fordham Way

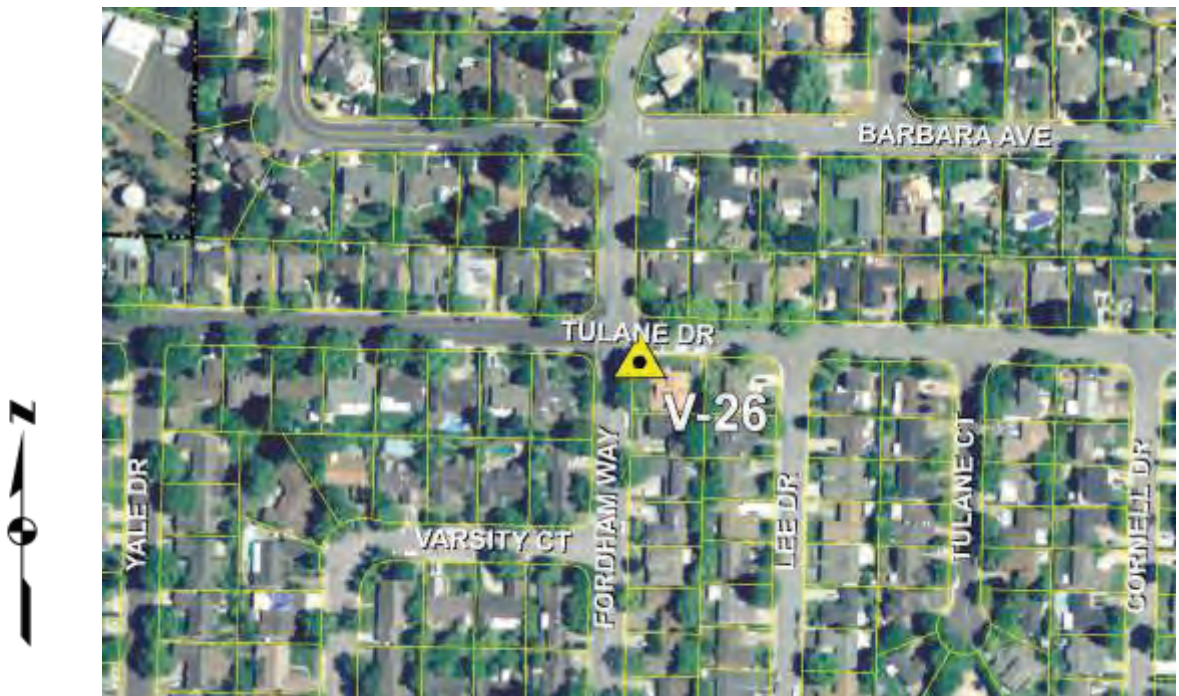
Site Photo



Point Photo



Location Photo



Elevation Feet:	151.109
Elevation Meters:	46.058
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-27" set in the top of curb at the center of the southwest return of Fordham Way at Rose Avenue

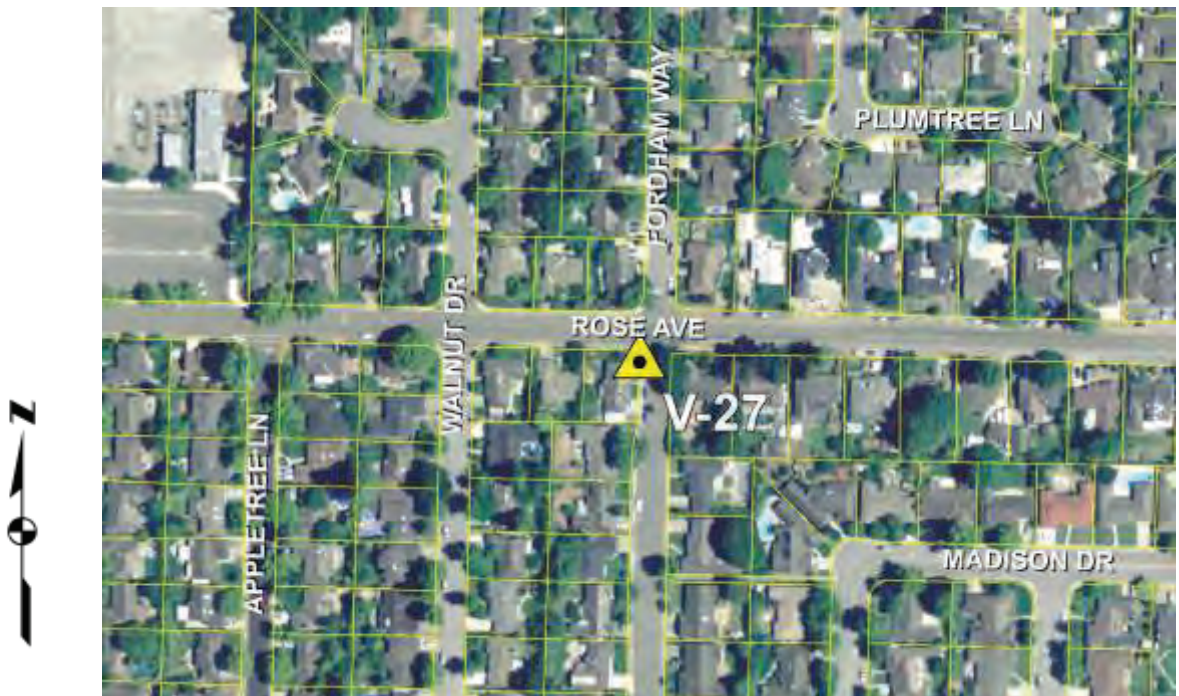
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-28**

Elevation Feet:	163.599
Elevation Meters:	49.865
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-28" set in the top of curb east side of Springer Road, 600'± south of Roase Avenue at second fire hydrant

Site Photo



Point Photo



Location Photo



Elevation Feet:	134.066
Elevation Meters:	40.864
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-29" set in the top of curb at the center of the southwest return of Springer Road at Marilyn Drive

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-30**

Elevation Feet:	159.943
Elevation Meters:	48.751
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-30" set in the top of curb at the center of the northwest return of Miramonte Avenue at Gest Drive

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark: **V-31**

Elevation Feet:	99.962
Elevation Meters:	30.469
Adjusted:	2010
Datum:	NAVD 1988

Description:

Bronze disk stamped "V-31" set in the top of curb at the south end of the southwest return of Rich Avenue at El Camino Real

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-32**

Elevation Feet:	183.805
Elevation Meters:	56.024
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-32" set in the top of curb at the center of the northeast return of Ivan Way at Bryant Street

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark:

**V-34**

Elevation Feet:	87.125
Elevation Meters:	26.556
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-34" set in the top of curb at the west end of the southwest return of Clark Avenue at El Camino Real

Site Photo



Point Photo



Location Photo





Elevation Feet:	111.061
Elevation Meters:	33.851
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-34A" set in the top of curb at the center of the northwest return of Castro Street at Sonia Way

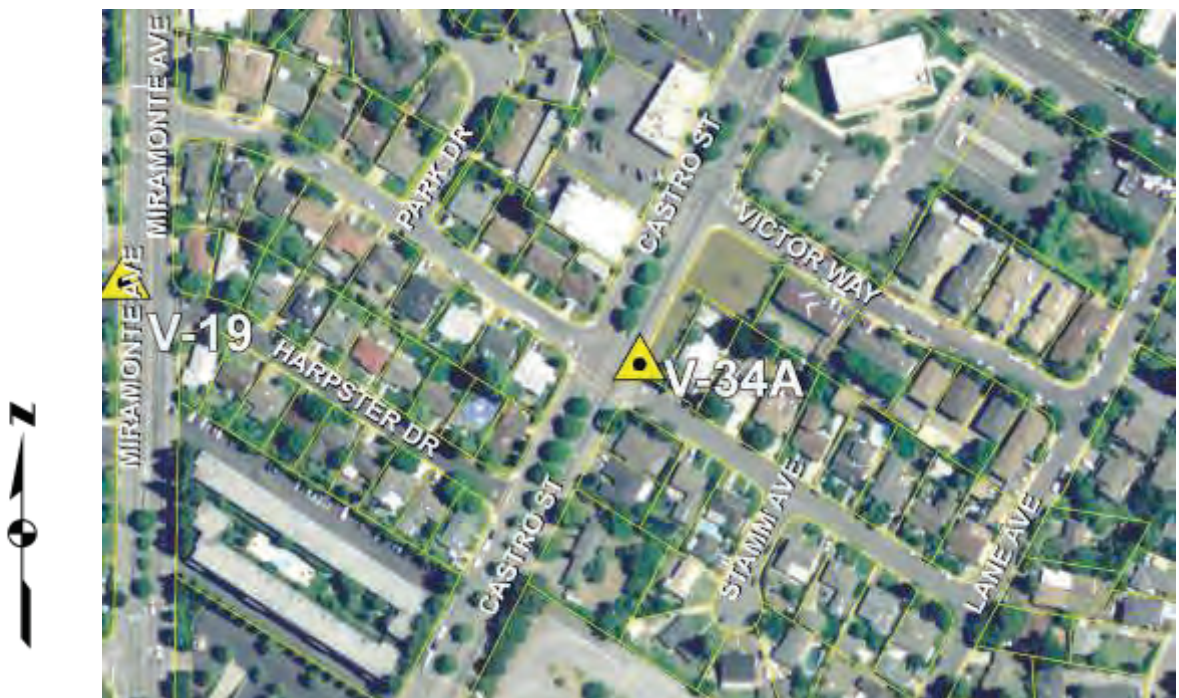
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-35**

Elevation Feet:	138.885
Elevation Meters:	42.332
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-35" set in the top of curb at the center of the northeast return of The Americana at Continental Circle

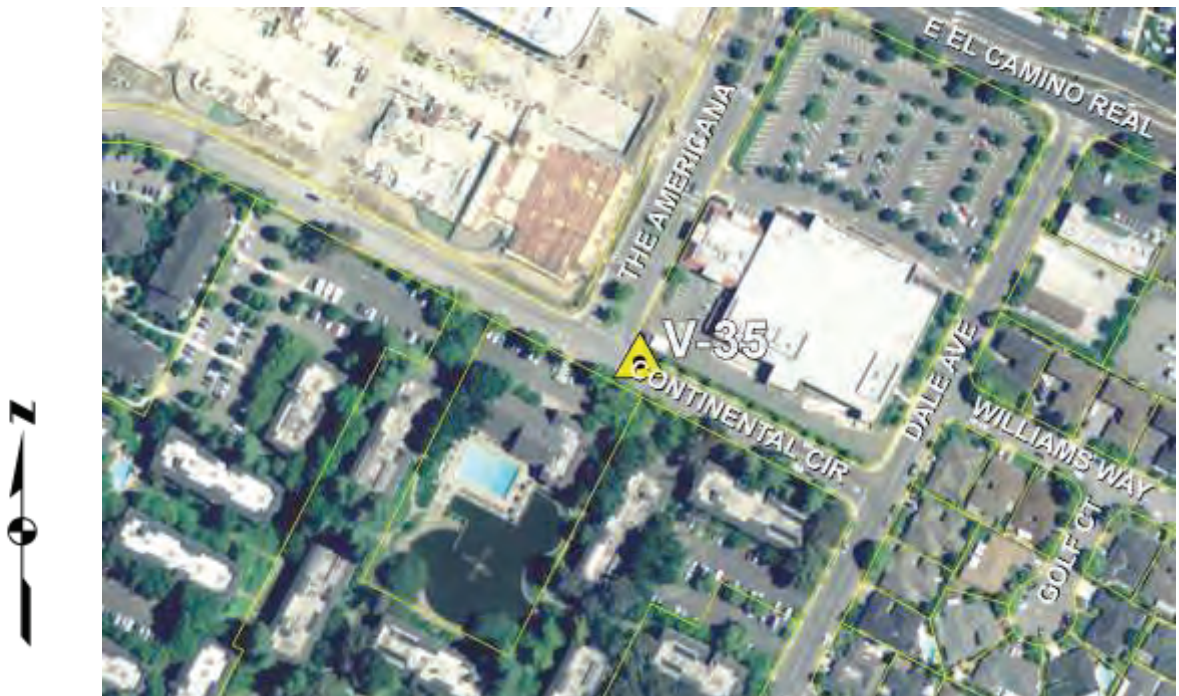
Site Photo



Point Photo



Location Photo







## Vertical Control

Benchmark:

**V-36**

Elevation Feet:	103.250
Elevation Meters:	31.471
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "V-36" set in the top of curb at the center of the southwest return of Miramonte Avenue at El Camino Real

Site Photo



Point Photo



Location Photo





Elevation Feet:	110.786
Elevation Meters:	33.768
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-37" set in the top of curb on the west side of Bonita Avenue opposite the centerline of Camille Court

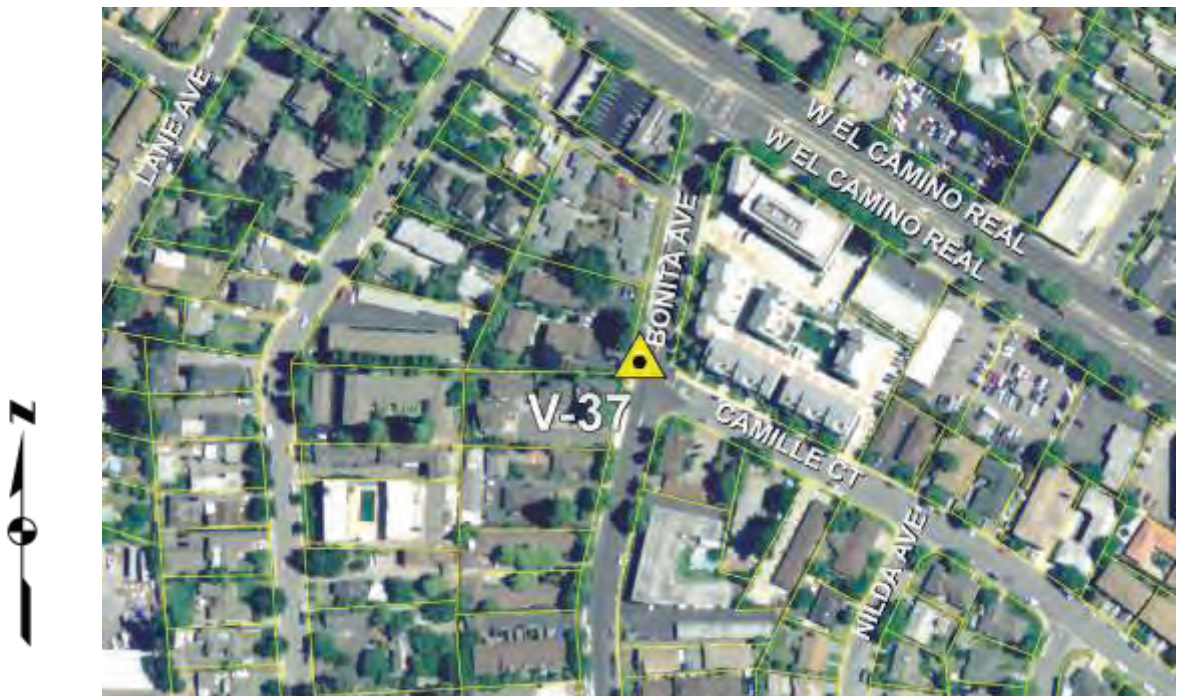
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-39**

Elevation Feet:	166.949
Elevation Meters:	50.886
Adjusted:	2010
Datum:	NAVD 1988

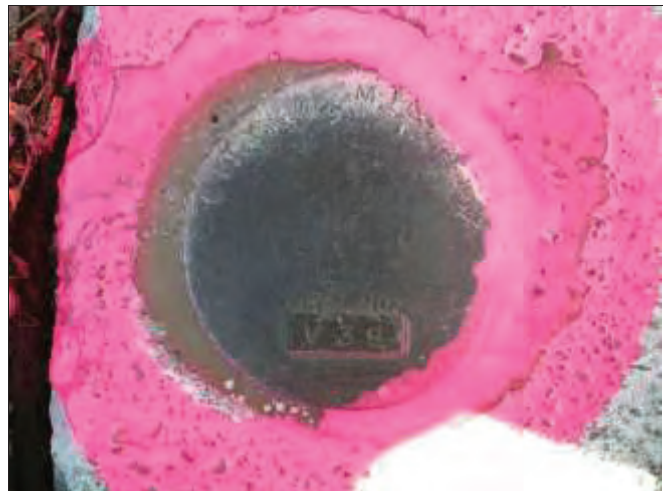
**Description:**

Bronze disk stamped "V-39" set in the top of curb at the center of the northeast return of Levin Avenue at Grant Road

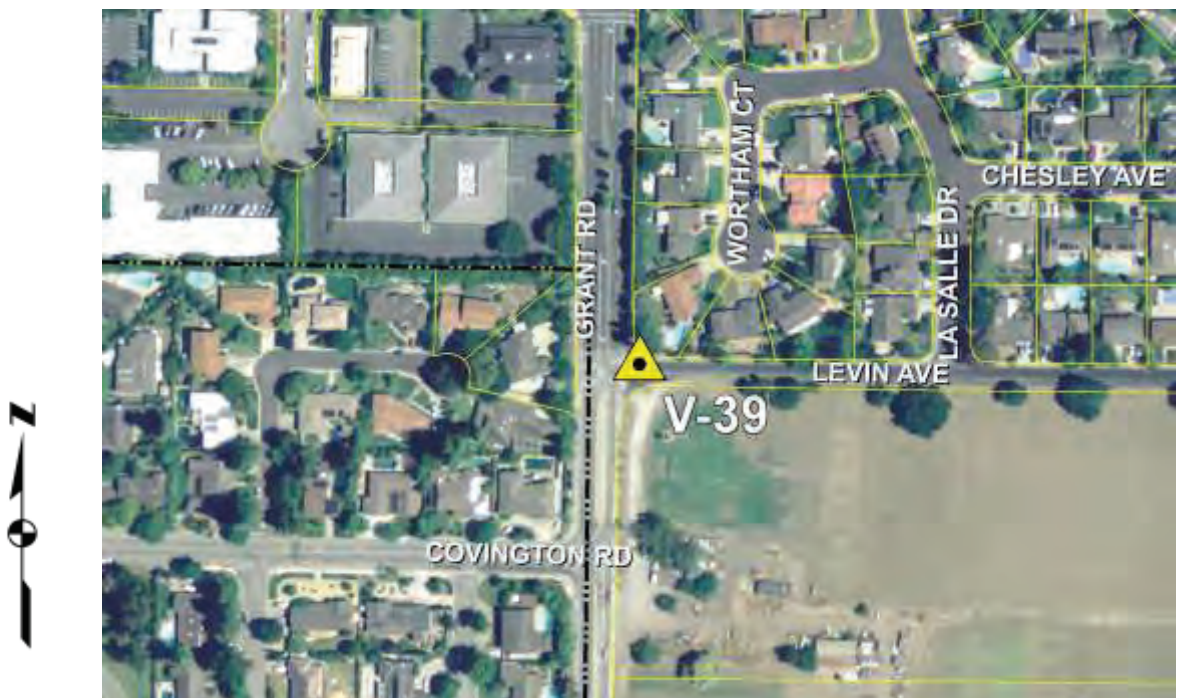
Site Photo



Point Photo



Location Photo





## Vertical Control

Benchmark:

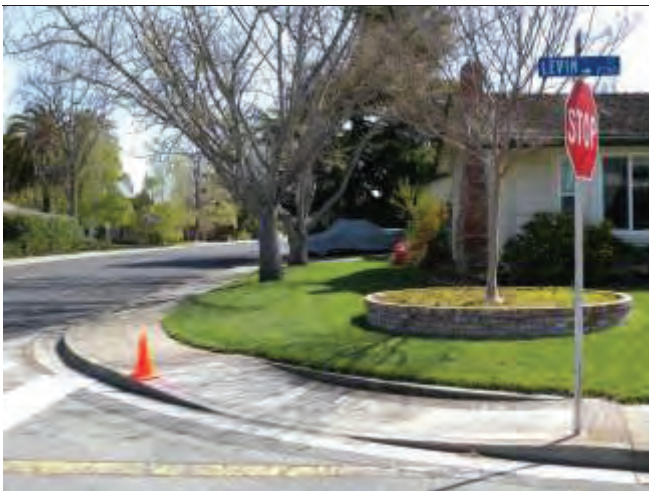
**V-40**

Elevation Feet:	168.594
Elevation Meters:	51.388
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "V-40" set in the top of curb at the center of the southeast return of Levin Avenue at Levin Court

Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-41**  
**Reset**

Elevation Feet:	178.012
Elevation Meters:	54.258
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-41" set in the top of curb at the center of the southwest return of Andre Drive at Truman Avenue

Site Photo



Point Photo



Location Photo





Vertical Control  
Benchmark:

**V-45**

Elevation Feet:	169.122
Elevation Meters:	51.549
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-45" set in the top of curb 20' north of the terminus of the curb and gutter, in the west side of Miramonte Avenue in front of the Miramonte Pump Station

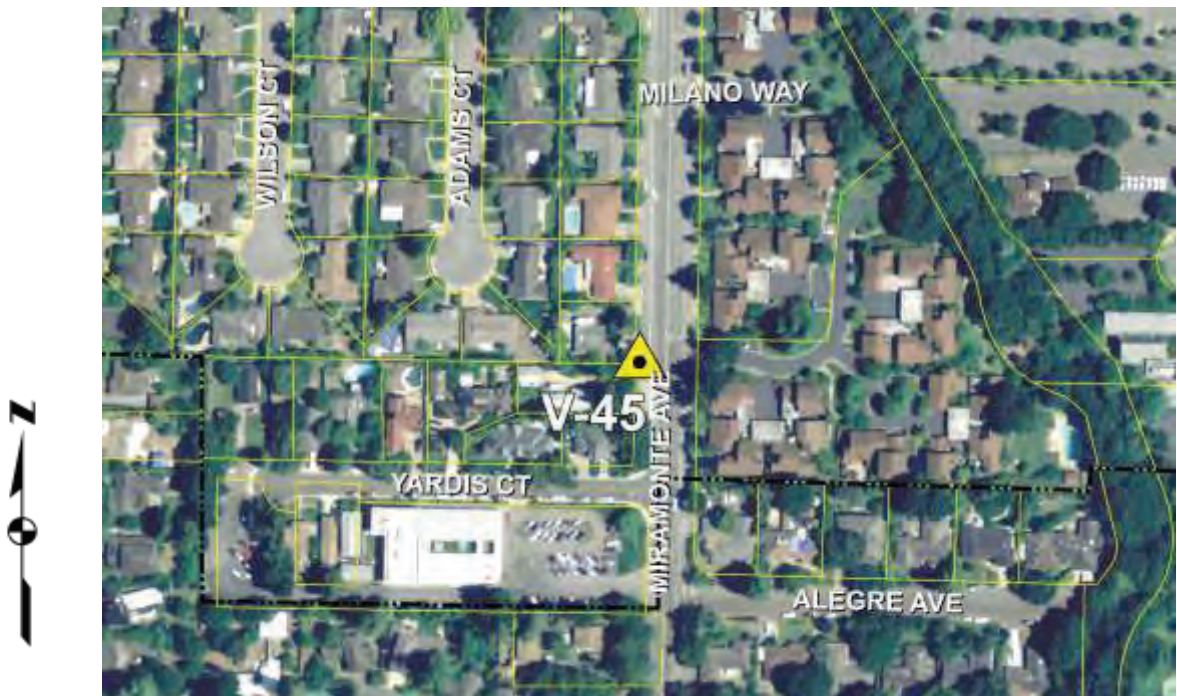
Site Photo



Point Photo



Location Photo







Vertical Control  
Benchmark:

**V-46**

Elevation Feet:	177.427
Elevation Meters:	54.080
Adjusted:	2010
Datum:	NAVD 1988

**Description:**

Bronze disk stamped "V-46" set in the top of curb at the southeast side of the bridge across the Permanente Creek cross channel on St. Giles Lane

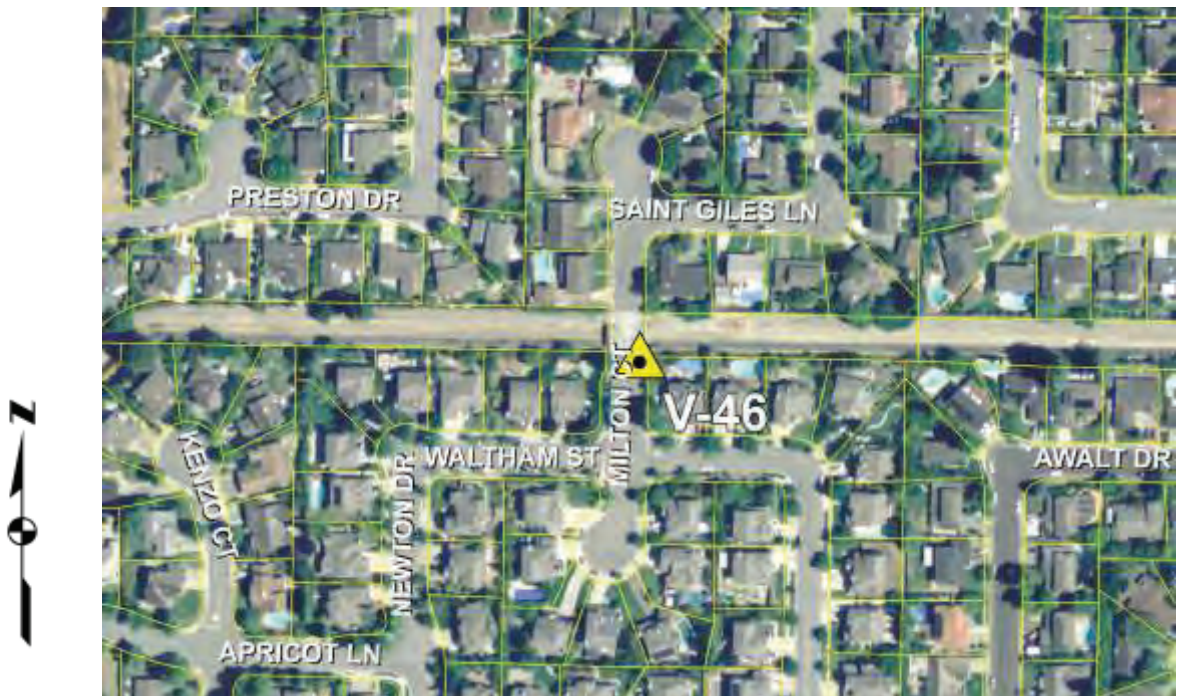
Site Photo



Point Photo



Location Photo





## Vertical Control

Benchmark:

**V-47**

Elevation Feet:	141.186
Elevation Meters:	43.033
Adjusted:	2010
Datum:	NAVD 1988

### Description:

Bronze disk stamped "V-47" set in the top of curb at the back of handicap ramp at the northwest return of Gretel Lane at Cuesta Avenue

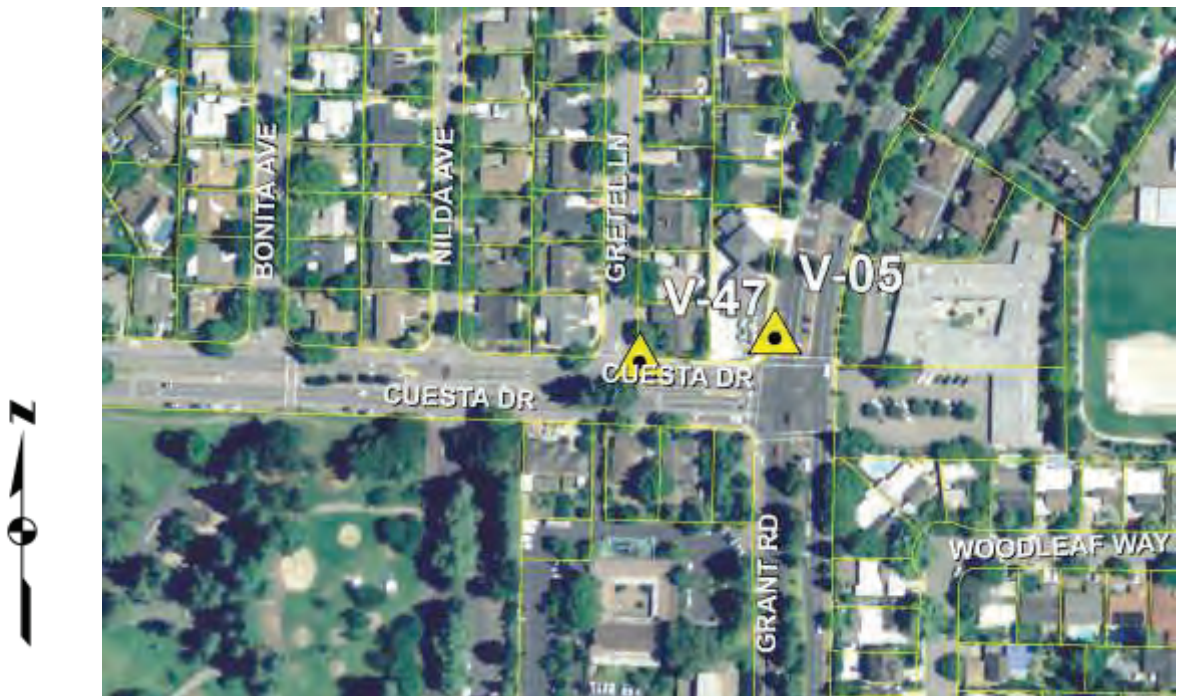
Site Photo



Point Photo



Location Photo







# **Horizontal Control Points Data Sheets**



Horizontal  
Control Point: **PC1**

Elevation Feet:	6.675
Elevation Meters:	2.035
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1984236.0224	SFt
Easting:	6097875.5733	SFt
Latitude:	37°26'00.254710" N	
Longitude:	122°05'50.736394"	

**Description:**

2" bronze disk with punch in monument well, intersection of Broderick Way and Terminal Boulevard

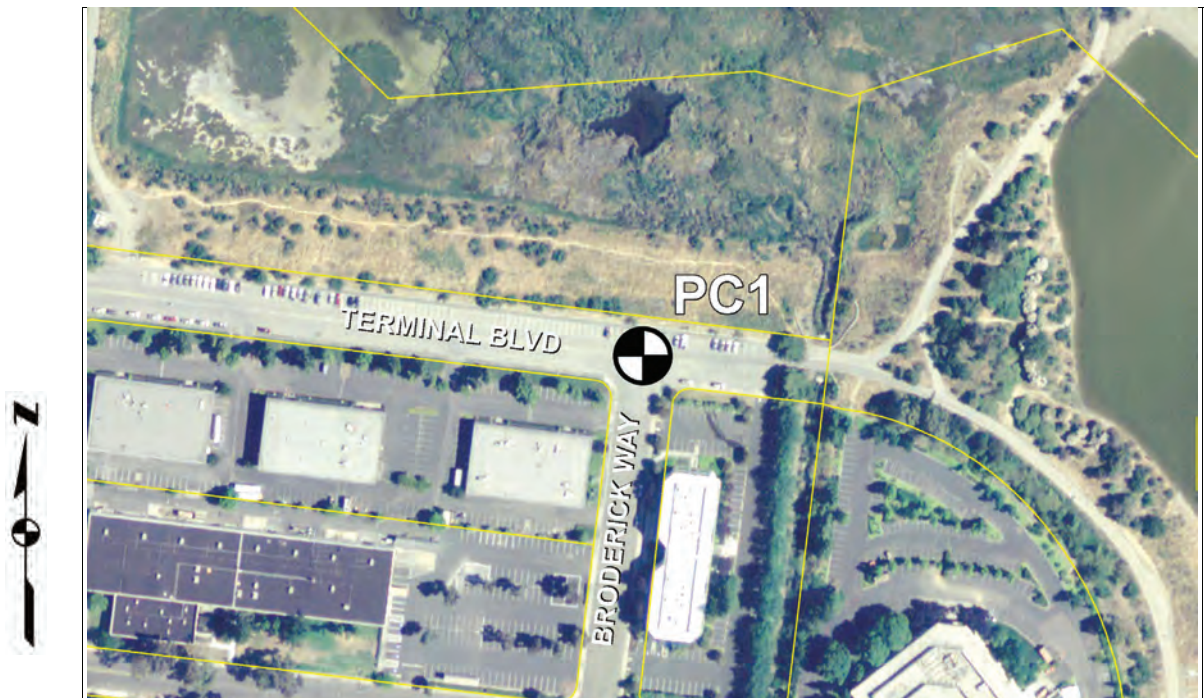
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC2**

Elevation Feet:	40.946
Elevation Meters:	12.480
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1975526.7836	SFt
Easting:	6093737.6777	SFt
Latitude:	37°24'33.455638" N	
Longitude:	122°06'40.174804"	

**Description:**

2" bronze disk with punch in monument well, north end of Del Medio Avenue

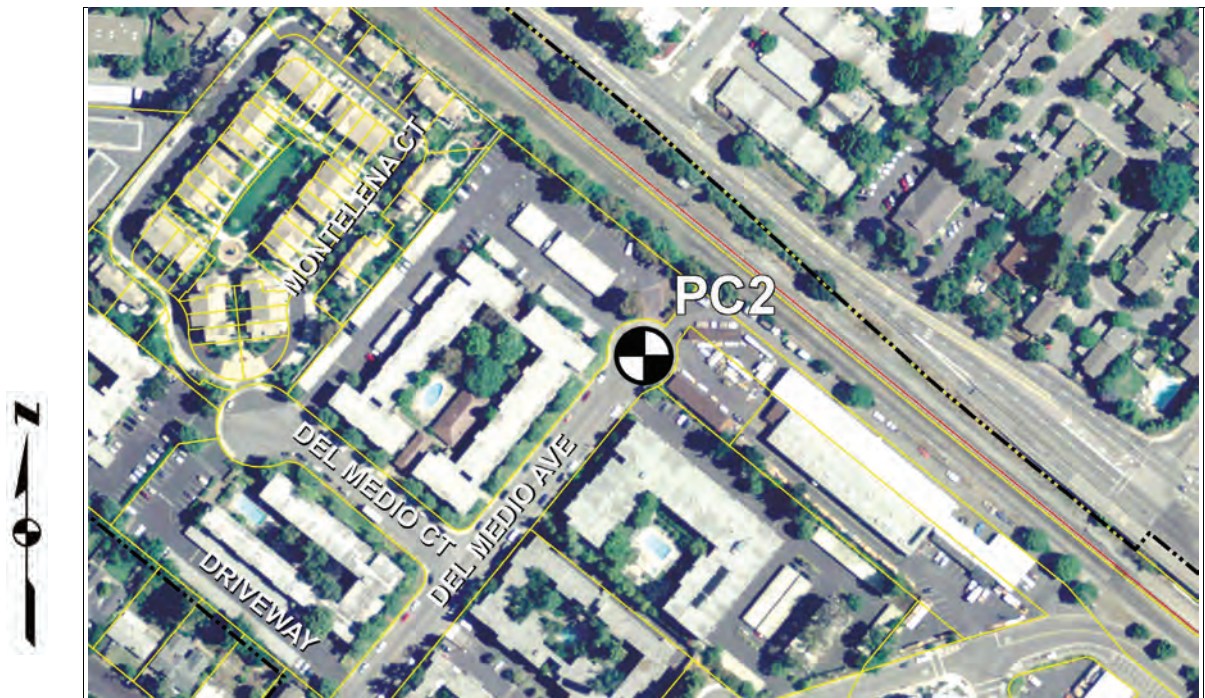
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC3**

Elevation Feet:	92.169
Elevation Meters:	28.093
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1969769.5679	SFt
Easting:	6096593.8841	SFt
Latitude:	37°23'37.025541" N	
Longitude:	122°06'03.557156"	

**Description:**

2" bronze disk with punch in monument well, north end of Solana Court

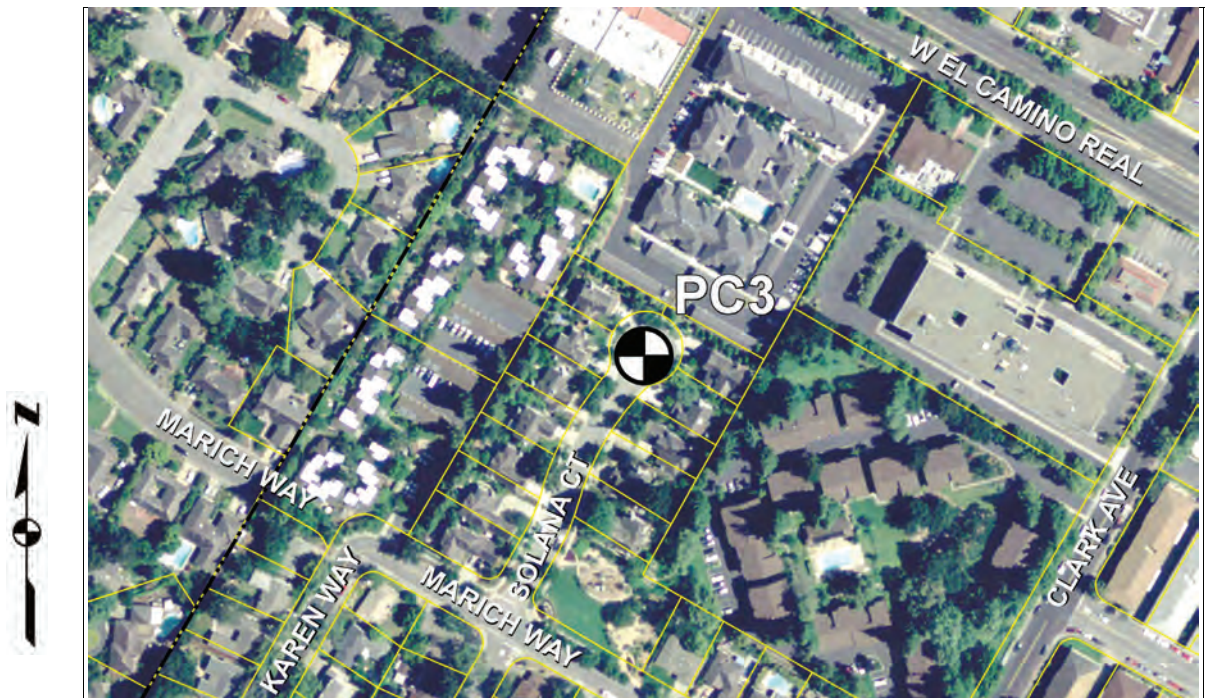
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC4**

Elevation Feet:	158.874
Elevation Meters:	48.425
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1960365.6081	SFt
Easting:	6099181.2207	SFt
Latitude:	37°22'04.495853" N	
Longitude:	122°05'29.517250"	

**Description:**

2 1/2" bronze disk with punch in monument well, RCE 8718, corner of Fordham Way 1800 to 1900 block, southern bend

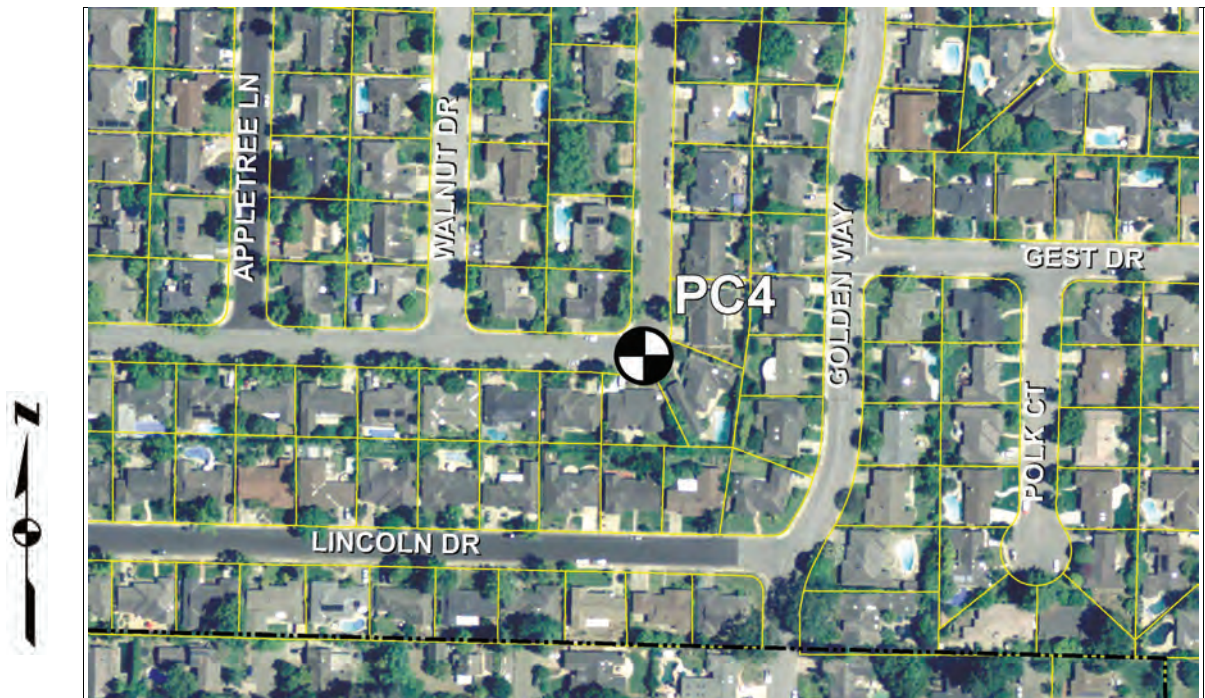
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC5**

Elevation Feet:	174.537
Elevation Meters:	53.199
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1958515.7975	SFt
Easting:	6106617.535	SFt
Latitude:	37°21'47.449088" N	
Longitude:	122°03'57.026147"	

**Description:**

2-1/2" bronze disk with punch in monument well, intersection of Brower Ave. and Lubich Drive

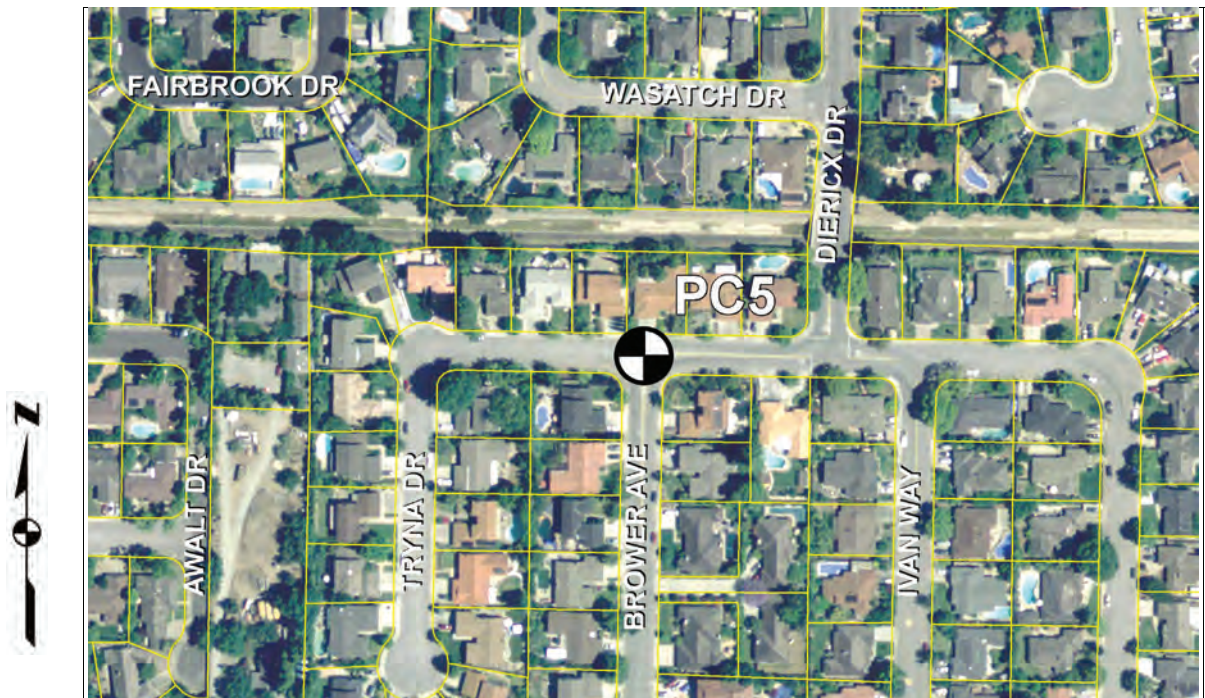
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC6**

Elevation Feet:	117.014
Elevation Meters:	35.666
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1964874.2392	SFt
Easting:	6108699.8327	SFt
Latitude:	37°22'50.651730" N	
Longitude:	122°03'32.548044"	

**Description:**

2-1/2" bronze disk with punch in monument well, RCE 9704, intersection of Sevely Dr. and Tahoe Terrace

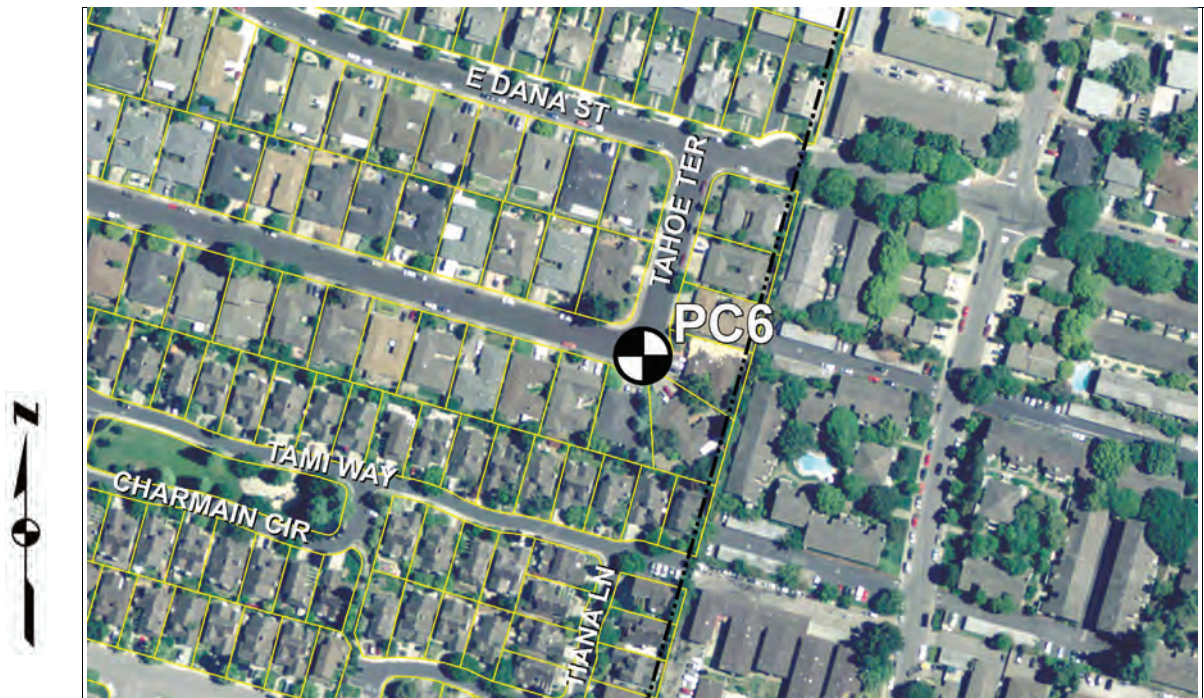
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC7**

Elevation Feet:	54.154
Elevation Meters:	16.506
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1970868.7013	SFt
Easting:	6111375.2992	SFt
Latitude:	37°23'50.351828" N	
Longitude:	122°03'00.633596"	

**Description:**

½" brass pin with punch, in concrete, in monument well, intersection of Logue Ave. and Maude Avenue

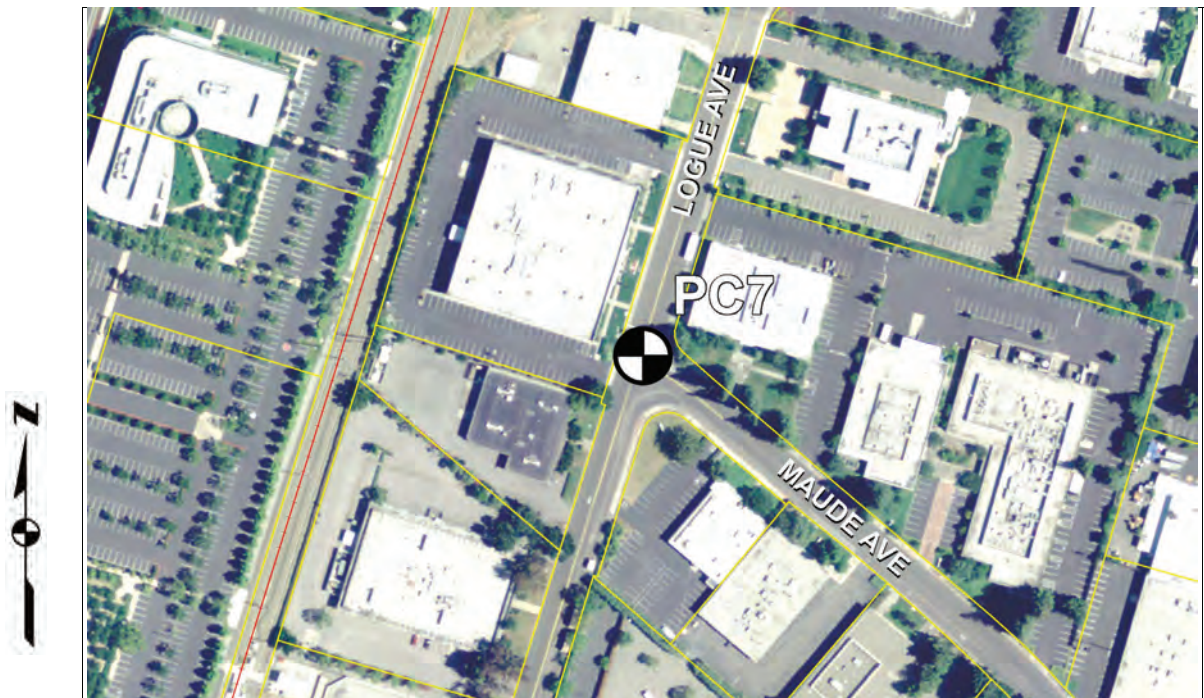
Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC8**

Elevation Feet:	55.742
Elevation Meters:	16.990
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1972038.2953	Sft
Easting:	6101854.597	Sft
Latitude:	37°24'00.338588" N	
Longitude:	122°04'58.850204"	

**Description:**

2" bronze disk with punch in monument well, stamped 7848, intersection of Wright Ave. and Polaris Avenue

Site Photo



Point Photo



Location Photo







Horizontal  
Control Point: **PC9**

Elevation Feet:	11.787
Elevation Meters:	3.593
Adjusted:	2010
Datum:	NAVD 1988

Northing:	1979287.0483	SFt
Easting:	6105397.6837	SFt
Latitude:	37°25'12.589205" N	
Longitude:	122°04'16.454155"	

**Description:**

2-1/2" bronze disk with punch in monument well, intersection of Shorebird Way and Charleston Road

Site Photo



Point Photo



Location Photo

