

Record of Survey

Being a control survey in the counties of Santa Barbara, San Luis Obispo, and Ventura, State of California.

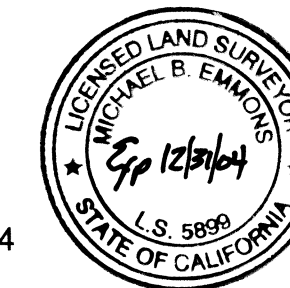
Purpose of Survey

The purpose of this survey is to tie the Continuously Operating Reference Stations (CORS) to the California High Precision Geodetic Network (HPGN), and to publish 1983 California Coordinate System (CCS 83) 1991.35 epoch, California Lambert Projection, Zone 5 positions for use by the general public and government agencies. This map supercedes the Record of Survey recorded in Book 171 of Records of Survey, Pages 22 and 23, in the office of the County Recorder, County of Santa Barbara, State of California.

Surveyor's Statement

This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Land Surveyor's Act at the request of Santa Barbara County Public Works Department in January and October, 2001.

Michael B. Emmons
 Michael B. Emmons
 County Surveyor
 PLS 5899
 License Expiration Date: 12/31/04



County Surveyor's Statement

This map has been examined in accordance with Section 8766 of the Land Surveyor's Act this 13 day of MARCH, 2002.

Michael B. Emmons
 County Surveyor
 PLS 5899
 License Expiration Date: 12/31/04

By: *Jon McKellar*
 Jon McKellar
 PLS 7578
 Deputy County Surveyor
 License Expiration Date: 12/31/03



Recorder's Statement

Filed this 19th day of March, 2002, at 2:30 P.M. in Book 171 of Records of Survey at Page(s) 24-25, at the request of the Department of Public Works, County of Santa Barbara.

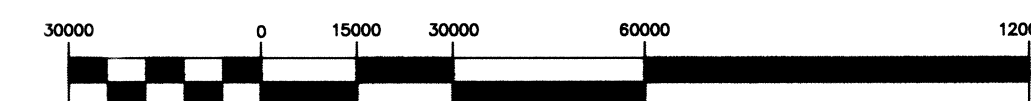
Fee: None

Kenneth A. Petit
 County Clerk-Recorder-Assessor

By: *Noreen Brucke*
 Noreen Brucke
 Deputy

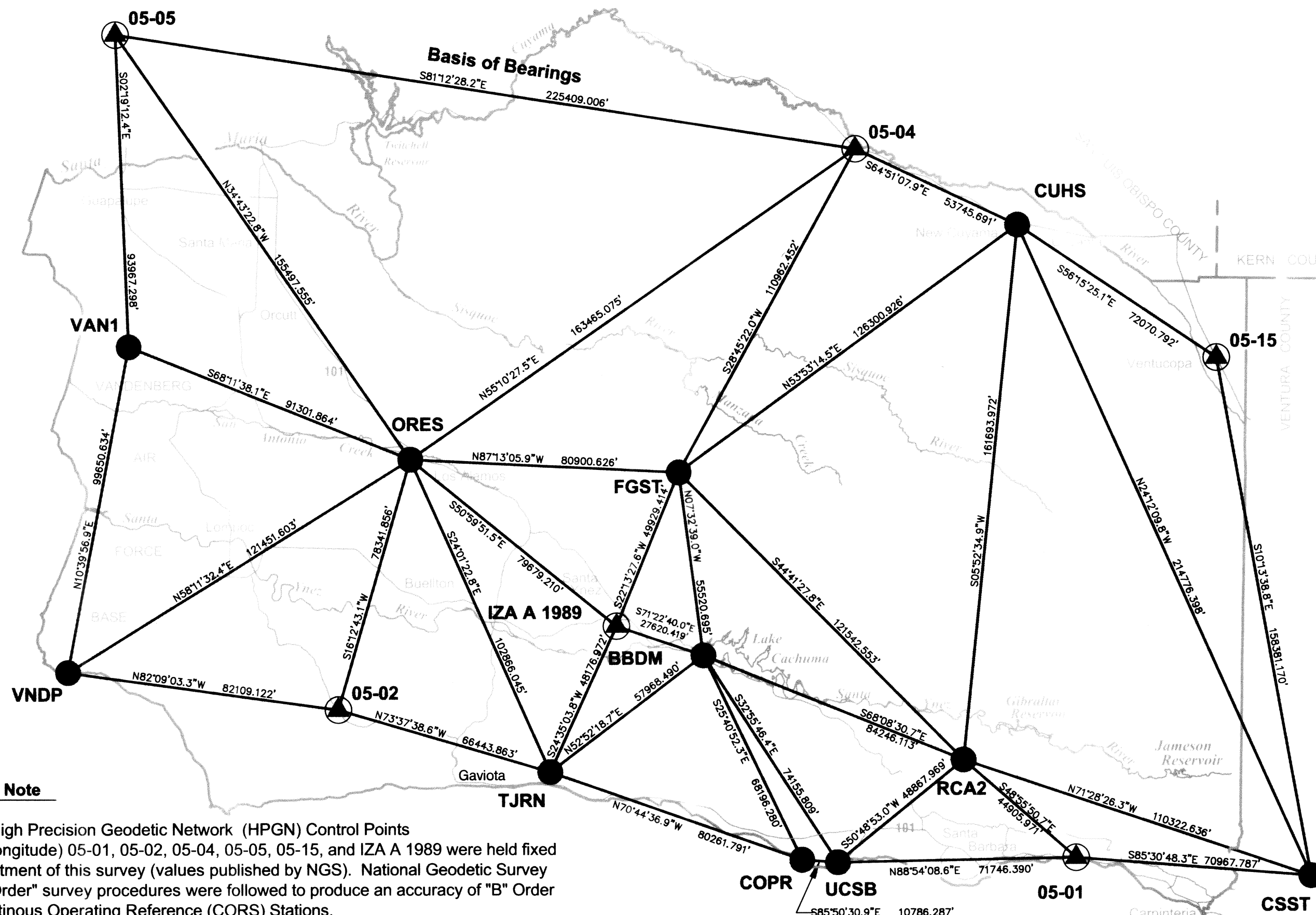
NO FEES REQUIRED PURSUANT TO
 GOVERNMENT CODE SECTION 6103

GRAPHIC SCALE



(IN FEET)
 1 inch = 30000 ft

SHEET 1 OF 2



Surveyor's Note

California High Precision Geodetic Network (HPGN) Control Points (Latitude/Longitude) 05-01, 05-02, 05-04, 05-05, 05-15, and IZA A 1989 were held fixed in the adjustment of this survey (values published by NGS). National Geodetic Survey (NGS) "B-Order" survey procedures were followed to produce an accuracy of "B" Order for the Continuous Operating Reference (CORS) Stations.

CORS data shown hereon is based on the California Coordinate System 1983 (CCS83) 1991.35 epoch. Elevations were derived by GPS observation and converted to North American Vertical Datum 1988 (NAVD88) using the NGS program "Geoid 99" holding published ellipsoid heights from the NGS Data Sheets.

Elevations shown for the CORS are given to the phase center of the antenna. All other elevations are given to the top center of the monument.

All bearings, distances, and coordinate values are grid. All distances shown are based on the U.S. Survey Foot (one foot = 1200/3937 meters).

Notes

See Sheet 2 of 2 for monument values and descriptions.

The Basis of Bearing is between HPGN 05-04 and HPGN 05-05 calculated and measured as N 49°22'44.6"E, 380368.576'.

Legend

- Continuous Operating Reference Station
- ▲ High Precision Geodetic Network Station (Held Fixed)
- DMS Degrees, Minutes, Seconds

RS 6248

Point	Grid Northing (U.S. Foot) 1991.35 Epoch	Grid Easting (U.S. Foot) 1991.35 Epoch	Ellipsoid Height (U.S. Foot)	Orthometric Elevation N.A.V.D. 88 (US Ft.) GPS Observed (Record)	Orthometric Elevation N.A.V.D. 88 (US Ft.) GPS Observed (Measured)	Latitude D M S	Longitude D M S	Station Name	
05-01	1979263.50	6077333.48	21.78'	137.90'	137.91'	34 25 13.64199	119 36 21.81247	HPGN CA 05 01	FIXED
05-02	2023870.68	5855321.57	469.55'	587'	586.94'	34 31 51.65809	120 20 43.73245	HPGN CA 05 02	FIXED
05-04	2192449.20	6011381.35	1722.40'	1832'	1832.57'	35 00 10.97399	119 50 15.48510	HPGN CA 05 04	FIXED
05-05	2226903.13	5788621.06	105.45'	220.8'	220.80'	35 05 03.22668	120 35 03.12870	HPGN CA 05 05	FIXED
05-15	2129576.60	6119962.27	2763.22'	2780'	2870.71'	34 50 06.82948	119 28 19.27579	HPGN CA 05 15	FIXED
IZA A 1989	2048950.99	5939114.27	562.07'	678.0'	678.18'	34 36 17.89676	120 04 08.53680	IZA A 1989	FIXED
BBDM	2040131.05	5965288.61	674.87'	N/A	790.23'	34 34 55.88302	119 58 53.37649	BBDM	MEASURED
COPR	1978671.24	5994842.39	-72.32'	N/A	45.80'	34 24 53.63636	119 52 46.21970	COPR	MEASURED
CSST	1973712.00	6148083.80	535.92'	N/A	650.52'	34 24 29.09585	119 22 16.42786	CSST	MEASURED
CUHS	2169609.70	6060032.73	2087.20'	N/A	2197.00'	34 56 33.49791	119 40 26.14351	CUHS	MEASURED
FGST	2095171.15	5957999.27	2968.87'	N/A	3081.95'	34 43 58.80291	120 00 33.70123	FGST	MEASURED
ORES	2099097.30	5877193.97	474.69'	N/A	591.32'	34 44 20.58367	120 16 42.73933	ORES	MEASURED
RCA2	2008765.40	6043478.15	3871.48'	N/A	3985.39'	34 29 59.90145	119 43 11.91599	RCA2	MEASURED
TJRN	2005141.29	5919071.05	518.27'	N/A	635.89'	34 29 00.47494	120 07 57.15439	TJRN	MEASURED
UCSB	1977889.14	6005600.26	-28.94'	N/A	89.02'	34 24 47.87183	119 50 37.65984	UCSB	MEASURED
VAN1	2133012.86	5792425.07	327.03'	N/A	444.27'	34 49 35.77967	120 33 48.55967	VAN1	MEASURED
VNDP	2035083.85	5773981.71	-35.26'	N/A	83.61'	34 33 22.68914	120 36 59.15069	VNDP	MEASURED

MONUMENT DESCRIPTIONS

HPGN 05-01	Survey Disc set atop aluminum alloy rod stamped "HPGN-Calif. Sta. 05-01 1990".
HPGN 05-02	Survey Disc set atop aluminum alloy rod stamped "HPGN-Calif. Sta. 05-02 1990".
HPGN 05-04	Survey Disc set atop aluminum alloy rod stamped "HPGN-Calif. Sta. 05-04 1990".
HPGN 05-05	Survey Disc set atop aluminum alloy rod stamped "HPGN-Calif. Sta. 05-05 1990".
HPGN 05-15	Survey Disc set atop aluminum alloy rod stamped "HPGN-Calif. Sta. 05-15 1990".
IZA A 1989	Survey Disc set atop concrete post stamped "IZA A 1989".
BBDM	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Bradbury Dam, Lake Cachuma, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
CORP	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Coal Oil Point Reserve, Santa Barbara, Santa Barbara County.. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
CSST	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Casitias Station, Casitas Springs, Ventura County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
CUHS	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Cuyama Valley High School, New Cuyama, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
FGST	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Figueroa Station, Los Olivos, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
ORES	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Olga Reed Elementary School, Los Alamos, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
RCA2	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at West La Cumbre Peak, Santa Barbara, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
TJRN	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Tajiguas Ranch, Tajiguas Land Fill, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome
USCB	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at UC Santa Barbara, Santa Barbara, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna
VAN1	Ashtech Z-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Vandenberg Airforce Base, Santa Barbara County. Geodetic III "Whopper" USCG Antenna
VNDP	Ashtech LM-XII3 receiver atop Wyatt-type drilled-braced geodetic monument at Vandenberg Airforce Base, Santa Barbara County. Ashtech Dorne Margolin Choke Ring Antenna, Revision B, with Radome

Notes

See Sheet 1 of 2 for Basis of Bearing, Legend, Monument Location Map and Surveyor's Notes.