

Vicinity Map
Not To Scale

Statement of Purpose

This Airport Survey Control Network (ASCN) was commissioned by the City of Santa Barbara, Public Works Department to establish a common mapping and surveying control network of permanent monuments covering property owned by the Airport. The survey consists of nine (9) strategically located stations inside and surrounding the Airport properties. The BaseNet extends from Los Carneros Road on the West to Fairview Avenue on the East; from the Pacific Ocean on the South to Hollister Avenue to the North. Primary control is tied to the High Precision Geodetic Network (HPGN) published by the National Geodetic Survey (NGS) in the National Spatial Reference System (NSRS) with supplemental ties to local (NGS) stations; and monuments included in the Santa Barbara Southcoast BaseNet Record of Survey filed in Book 170 at page 47 of Records of Survey in the County Recorders Office.

General Notes

This map does not represent a property survey and the positions of set control points established in this survey have not been determined relative to recorded property boundaries or street centerlines.

Field data (vectors) for this project were collected by GPS receiver observations of the NAVSTAR GPS constellation consisting of 27 Block II satellites. Vector lengths vary between 315 and 8,445 meters. Observations were P-Code encrypted and SA was on at all times. Phase and Code on the L1 and L2 frequencies (C/A Code, P-Code) were collected every 5 seconds from 4-9 satellites. Only satellites above a 15° mask angle were included in the adjustment. GDOP (Geodetic Dilution of Position) was set not to exceed five. Observation times varied between 6 and 30 minutes for each occupation; each station was occupied not less than two times at intervals exceeding one hour. Weather was generally mild with clear skies and moderate temperatures.

The equipment used consisted of two Nikon/Novatel Outrider Dual Frequency Systems with SoftSurv core version 2.30. Outrider unit components consisted of DL-RT2 receivers, 502 antenna and Microflex PC9800 controller. Nikon/Novatel unit numbers and sensor controller serial numbers were Base DL-RT2 CNS99200202 - 502/5283; Rover DL-RT2 CNS99200205 - 502/5288; Microflex Dap PC9800 CY2795.

Elevations Established by Differential Leveling Methods

Orthometric heights (elevations) of the set monuments (ASCN1 through ASCN9) are based on the North American Vertical Datum of 1988 (NAVD 88) per National Geodetic Survey (NGS) published values and are derived from a least squares adjustment of a three-wire differential level run. The initial Benchmark was at EW3785 M1042, a First Order Class 1 NGS monument. Fixed elevations for the ASCN were determined by a least squares adjusted three-wire differential level run from EW3794, U1043 on the north to 2012 Goleta Point on the south. EW3777, A371 and EW9581, HPGN D CA 05 AS were included for additional validation of the NGS vertical data.

Elevations Established by GPS Observations

Ellipsoid heights shown on Sheet 2 of this map were obtained by combining GPS ellipsoid heights with the GEOID 96 model constrained to published elevations and elevations determined by differential leveling. Ellipsoid heights are expected to have a probable error of 1-2 centimeters. Probable error in the GEOID 96 model is also expected to be 1-2 centimeters. Relative elevation accuracies are expected to be in the 1-3 centimeter range. The absolute accuracy of the elevations is dependent on the published values of the NGS and HPGN stations used to control this survey.

County Surveyor's Statement

This Map has been examined in accordance with Section 8766 of the Land Surveyor's Act this 5th day of DECEMBER, 2000.

Michael B. Emmons
Michael B. Emmons P.L.S. No. 5899
County Surveyor
License Expiration date: 12/31/2000



Recorder's Statement

Filed this 8th day of December, 2000, at 11:28 a.m. in book 170 of Records of Surveys at Page(s) 63-65, at the request of Sage Consultants, Inc.

Fee: 70 fee
Kenneth A. Pettit, County Clerk - Recorder - Assessor
By: *Sharon Prindle* Deputy

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 City of Santa Barbara - Public Works Department December, 1999 to January, 2000.

P.L.S. No. 7308
License Expiration Date 12-31-2000

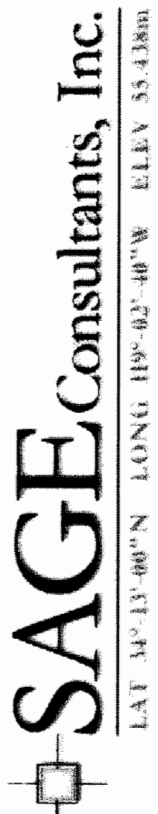


Richard B. Moore
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Record of Survey

of a
BaseNet Control Network
established at the request of
City of Santa Barbara - Public Works Department
known as the
Airport Survey Control Network

City of Santa Barbara
County of Santa Barbara
State of California



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