STATEMENT OF PURPOSE

The purpose of this map is to document the replacement of station sides of the Santa Barbara control network that are shown on the map filed in Book 147, Page 70 of Records of the Original Station Data Book and in the construction of a new highway 101-154 interchange bridge. An existing HPG vertical control system in the area of the bridge site was redone to the new HPG specifications. This bridge was selected to be the replacement and has been designated "US 90" for the purposes of the SBN.

NOTES

1. The survey was performed in February, 1998, using three Ashtech 412 CRC-1 dual-frequency GPS receivers operating in static mode, with an average 60-minute occupation time. Baseline processing was done using the Ashtech IPSS software version 5.0.5. The baseline processing was performed using the single-frequency observables and the broadcast ephemeris. Network adjustment was performed with STARENET version 5.04.

2. The horizontal datum of the network is NAVD 88 (1992), and the position of station "0008 RESERT 1998" has been derived from ties to four SBN stations: 0001, 0008, 0017, 0028.

3. The bearings shown herein were referenced to CRS3, zone 5 grid north. The positions of the four SBN stations noted above, have been used as the basis of bearings for this map.

4. The vertical datum of the network is NAVD 88 and the elevation of station 0009 was estimated by tying to the previously published 147 RTI elevations of stations 0001, 0008, 0017, and 0028 in the network adjustment and using the USGS 1957 SSDD model to derive the GED/ELPSD separation.

5. Streets shown herein are for informational purposes only. Monuments at these were not intended to be on street centerlines. The positions of the monuments are projected to street centerlines for ease of transfer to road centerlines.

6. A STATION RECOVERY SHEET FOR STATIONS 0001 THROUGH 0028 IS ON FILE AT THE CITY OF SANTA BARBARA PUBLIC WORKS DEPARTMENT. THE STATION RECOVERY SHEET INCLUDES THE POSITION, ELEVATION, AND DESCRIPTION FOR THE SUBJECT STATION.

RECORD OF SURVEY