

CITY OF SOLANA BEACH  
SURVEY CONTROL

PROCEDURE OF SURVEY:

THE PURPOSE OF THIS SURVEY IS TO ESTABLISH A NETWORK OF HORIZONTAL GEODETIC CONTROL STATIONS THROUGHOUT THE CITY OF SOLANA BEACH TO UTILIZE FOR GIS PURPOSES AND SUBSEQUENT MAPPING SURVEYS IN THE CITY.

TO ACCOMPLISH THIS TASK A GPS SURVEY WAS CONDUCTED USING FOUR LEICA SYSTEM 500 SYSTEMS COMPRISED OF AT502 L1,L2 MICROSTRIP ANTENNAS, AND SR 530 DUAL FREQUENCY RECEIVERS UTILIZING "FAST AMBIGUITY RESOLUTION" TECHNIQUES. ALL OCCUPATIONS UTILIZED FIXED HEIGHT ANTENNA TRIPODS. MONUMENTS USED FOR THE SURVEY WERE SELECTED IN UNOBSTRUCTED LOCATIONS FOR FUTURE USE, AT ONE MILE GRIDS AND SPACED NO GREATER THAN 1 MILE UNLESS DIRECTED BY THE CITY ENGINEER. LEVELING WITH A WILD NA-2002 BAR CODE LEVEL WAS PERFORMED TO TIE ONE CONTROL STATION TO THE EXISTING FIRST ORDER LEVEL LINE LYING ALONG THE COASTAL RAILROAD LINE.

THE NETWORK SURVEY WAS CONDUCTED IN TWO DISTINCT PHASES, A CONTROL TIE NETWORK AND AN OVERALL NETWORK. BOTH NETWORKS WERE PERFORMED IN COMPLIANCE WITH ACCURACY STANDARDS PER THE CALIFORNIA GEODETIC CONTROL COMMITTEE (C.G.C.C.) DOCUMENT "SPECIFICATIONS FOR GEODETIC CONTROL NETWORKS USING HIGH-PRODUCTION GPS SURVEYING TECHNIQUES" VERSION 2.0, JULY 1996 FOR BAND V (1cm), GROUP C 1ST ORDER EQUIVALENT AS DEFINED IN THE CALIFORNIA PUBLIC RESOURCES CODE SECTION 8801(c)(10).

THE NETWORK CONTROL TIES CONSISTS OF 2 MONUMENTS ONE ON THE EAST SIDE AND ONE ON THE WEST SIDE OF THE PROJECT AREA AND 2 "B" ORDER MONUMENTS OUTSIDE THE PROJECT AREA. ADDITIONALLY THIS NETWORK WAS TIED TO THREE CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) OUTSIDE THE PROJECT AREA. THE 2 LOCAL MONUMENTS ARE MARKS SET AS 2.5" DISKS IN CONCRETE DRAINAGE STRUCTURES. THE NETWORK CONTROL TIES WERE SURVEYED ON MARCH 18, 2005 CONCURRENTLY WITH THE OVERALL NETWORK. STATION DATA LOGGING OCCUPATION TIMES TO THE EXISTING B ORDER MONUMENTS RANGED FROM 60 TO 90 MINUTES.

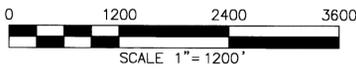
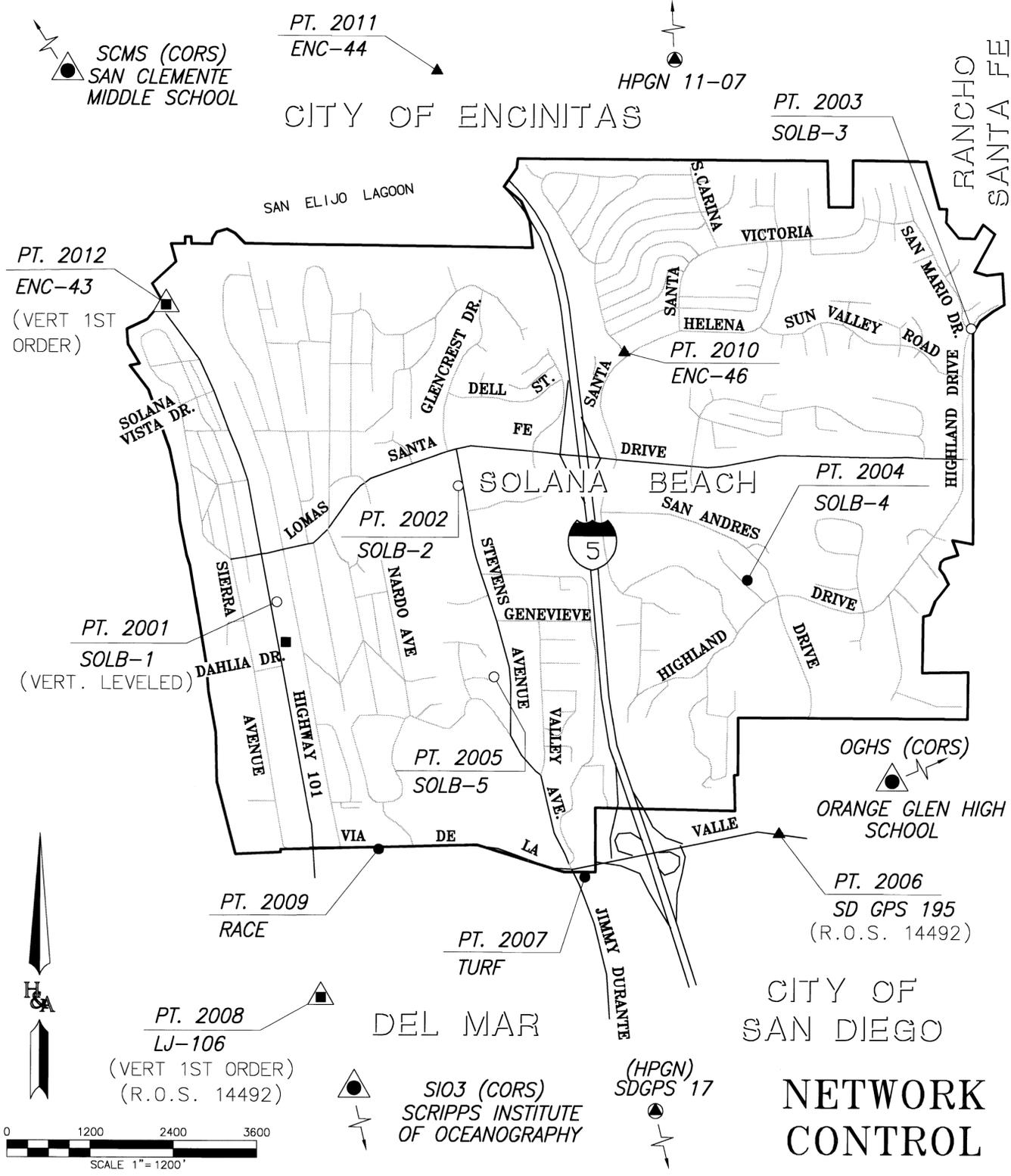
THE OVERALL NETWORK INCLUDES THE REMAINING TEN STATIONS (18 STATIONS IN TOTAL ADJUSTMENT) OF WHICH FIVE WERE TIES TO ADJACENT EXISTING 1ST ORDER STATIONS AND WAS SURVEYED FROM MARCH 17, TO MARCH 18, 2005. STATION DATA LOGGING OCCUPATION TIMES RANGED FROM 40 TO 50 MINUTES.

THE OVERALL NETWORK WAS CONSTRAINED IN TWO ADJUSTMENTS ON TWO SEPARATE DATUMS. THE CCS83 ZONE 6, 1991.35 EPOCH HORIZONTAL DATUM WITH THE NGVD 29 VERTICAL DATUM TO CORRESPOND WITH EXISTING HIGH ORDER CONTROL SURVEYS, AND ALSO CONSTRAINED TO THE CCS83 ZONE 6, 2004.0 EPOCH HORIZONTAL DATUM WITH THE NAVD88 VERTICAL DATUM PER CORS STATIONS NGS DATASHEETS AS THE MOST CURRENT HIGH PRECISION GEODETIC NETWORK (HPGN) SURVEY.

THE CCS83 ZONE 6, 1991.35 EPOCH HORIZONTAL DATUM WITH THE NGVD 29 VERTICAL DATUM NETWORK ADJUSTMENT INCLUDED TWO "B" ORDER MONUMENTS AND THREE FIRST ORDER MONUMENTS USED AS THE BASIS OF COORDINATES. ONE FIRST ORDER BENCHMARK AND ONE MONUMENT TIED TO A 1ST ORDER BENCHMARK WITH LEVELING WERE USED AS THE BASIS OF ELEVATION. THE NETWORK STATION POSITION DATA IS THE RESULT OF A CONSTRAINED BASELINE ADJUSTMENT USING "MOVE 3 VERSION 3.2.2" LEAST SQUARES ADJUSTMENT SUBROUTINE IMBEDDED IN "LEICA SKI PRO VERSION 3.0" GPS SOFTWARE. THE ADJUSTMENT WAS CONSTRAINED TO THE HORIZONTAL AND VERTICAL MONUMENTS LISTED UNDER "BASIS OF COORDINATES" AND "BASIS OF ELEVATIONS" AS NOTED AND ARE THE BASIS FOR THE CCS83 (1991.35 EPOCH), NGVD29 COORDINATES FOR THIS SURVEY.

THE CCS83 ZONE 6, 2004.0 EPOCH HORIZONTAL DATUM WITH THE NAVD 88 VERTICAL DATUM PRIMARY NETWORK ADJUSTMENT INCLUDED THREE CORS STATIONS USED AS THE BASIS OF COORDINATES. TWO FIRST ORDER BENCHMARKS AND ONE MONUMENT TIED TO A 1ST ORDER BENCHMARK WITH LEVELING WERE USED AS THE BASIS OF ELEVATION. THE NETWORK STATION POSITION DATA IS THE RESULT OF A CONSTRAINED BASELINE ADJUSTMENT USING "MOVE 3 VERSION 3.0.2" LEAST SQUARES ADJUSTMENT SUBROUTINE IMBEDDED IN "LEICA SKI PRO VERSION 2.0" GPS SOFTWARE. THE ADJUSTMENT WAS CONSTRAINED TO THE HORIZONTAL AND VERTICAL MONUMENTS LISTED UNDER "BASIS OF COORDINATES" AND "BASIS OF ELEVATIONS" AS NOTED. THE NETWORK CONTROL TIES FOR THIS ADJUSTMENT WAS USED TO VERIFY THE VALIDITY OF THE CONSTRAINTS AND COMBINED WITH THE OVERALL NETWORK.

COMPUTATIONS PERFORMED WITH THE "LEICA" LEAST SQUARES ADJUSTMENT WERE SPECIFIED TO 2-SIGMA (95%) CONFIDENCE REGIONS. GEOID 2003 PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS) WAS THE GEOID MODEL UTILIZED TO COMPUTE GEOID SEPARATIONS FOR THE ADJUSTMENTS. THE "HORIZONTAL TIME DEPENDENT POSITIONING" SOFTWARE PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS) WAS USED TO UPDATE COORDINATE VALUES TO THE COMMON EPOCHS. THE RESULTS OF THE NETWORK ADJUSTMENT ACCURACIES CONFORM TO FIRST ORDER (2 CENTIMETERS) PER STATE LAW AS DEFINED BY THE FEDERAL GEODETIC CONTROL SUBCOMMITTEE (F.G.C.S.) AND THE FEDERAL GEOGRAPHIC DATA COMMITTEE (F.G.D.C.) BY DOCUMENT ENTITLED "GEOSPATIAL POSITIONING ACCURACY STANDARDS, PART 2, STANDARDS FOR GEODETIC NETWORKS", FGDC-STD-007.2-1998.



RECORD OF SURVEY  
OF A GEODETIC CONTROL NETWORK OF THE CITY OF SOLANA BEACH, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA.

SURVEYORS STATEMENT  
THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF THE CITY OF SOLANA BEACH IN MARCH, 2005.

Signature of David W. Ambler, dated 9/08/2005.  
DAVID W. AMBLER, L.S. 7322, Exp. 12-31-05.  
Seal of Licensed Land Surveyor David W. Ambler, State of California, L.S. 7322, Exp. 12-31-05.

- LEGEND
- INDICATES CONTINUOUSLY OPERATING REFERENCE STATION (CORS)
  - ▲ INDICATES EXISTING FIRST OR "B" ORDER CONTROL MONUMENT HELD IN ADJUSTMENT (SEE BASIS OF COORDINATES)
  - INDICATES EXISTING FIRST ORDER BENCHMARK INCLUDED IN LEVELING AS A PART OF THIS SURVEY (SEE BASIS OF ELEVATION)
  - ▲ INDICATES EXISTING 1ST ORDER MONUMENT AND BENCHMARK
  - ▲ INDICATES EXISTING 1ST ORDER MONUMENT PER CITY OF ENCINITAS CONTROL NETWORK (SEE R.O.S. 18416), UNLESS NOTED OTHERWISE.
  - INDICATES A MONUMENT ESTABLISHED (SET) AS A PART OF THIS SURVEY.
  - INDICATES MONUMENT USED (EXISTING) AS A PART OF THIS SURVEY

- STATION NAME DESCRIPTIONS:  
(MONUMENTS WITH STATION NAMES WHICH HAVE THE FOLLOWING DESIGNATION)
- (CORS) - INDICATES AN EXISTING CONTINUOUSLY OPERATING REFERENCE STATION (CORS) MONUMENT IN SAN DIEGO COUNTY FROM THE SOUTHERN CALIFORNIA INTEGRATED GPS NETWORK.
  - HPGN - INDICATES AN EXISTING CALIFORNIA HIGH PRECISION GEODETIC NETWORK MONUMENT PER R.O.S. 14310.
  - ENC - INDICATES AN EXISTING ENCINITAS NETWORK MONUMENT PER R.O.S. 18416.

COUNTY SURVEYOR'S STATEMENT  
THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE LAND SURVEYORS ACT THIS 13th DAY OF SEPT., 2005.

Signature of Philip J. Giurbino, dated 9/8/2005.  
PHILIP J. GIURBINO, L.S. 4424, Exp. 9-30-07.  
Seal of Licensed Land Surveyor Philip J. Giurbino, State of California, L.S. 4424, Exp. 9-30-07.

RECORDER'S STATEMENT  
FILE NO. 2005-0802850  
FILED THIS 11th DAY OF SEPT., 2005, AT 1:08 O'CLOCK, P.M. IN BOOK OF RECORD OF SURVEY MAPS AT PAGE 11A AT THE REQUEST OF THE CITY OF SOLANA BEACH.

GREGORY J. SMITH, COUNTY RECORDER  
BY: SILVIA OREGA, DEPUTY  
FEE \$0.00  
NO FEE REQUIRED PER GOVERNMENT CODE SECTION 6103

# CITY OF SOLANA BEACH SURVEY CONTROL

## ADJUSTMENT NO. 1

### BASIS OF COORDINATES: CCS83, ZONE 6, 1991.35 EPOCH PER R.O.S. 14310

THE HEREIN-LISTED NORTH AMERICAN DATUM OF 1983 (NAD83), CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 6 PLANE COORDINATES ALL PER EPOCH 1991.35 ARE BASED IN THE HORIZONTAL COMPONENT UPON THE FOLLOWING VALUES FOR TWO CONTROL MONUMENTS OF B-ORDER ACCURACY OR BETTER AND THREE EXISTING 1<sup>ST</sup> ORDER MONUMENTS.

NO.	NAME	NORTHING	EASTING	ELLIPSOID HEIGHT	SOURCE	FGCC ORDER
1107	HPGN 11-07	1992291.232	6247272.613	196.75	R.O.S. 16810	B
SDGPS17	SAN DIEGO GPS 17	1878748.664	6285831.155	296.50	R.O.S. 16810	B
2006	SD GPS 195	1938170.720	6255827.490	-83.31	R.O.S. 14492	FIRST
2010	ENC-46	1945083.493	6253573.589	54.41	R.O.S. 18416	FIRST
2012	ENC-43	1945757.987	6246975.431	-81.58	R.O.S. 18416	FIRST

### NGVD29 ELEVATIONS PER NGS 1<sup>ST</sup> ORDER BENCHMARKS:

THE HEREIN LISTED NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) ORTHOMETRIC HEIGHTS ARE BASED IN THE VERTICAL COMPONENT UPON THE FOLLOWING VALUES FOR 2 BENCHMARK OF FIRST ORDER ACCURACY.

NO.	NAME	ORTHOMETRIC HEIGHT	SOURCE	FGCC ORDER
2001	SOLB-1	69.28(*)	LEVELED LJ 109	2 <sup>ND</sup>
2008	LJ 106	13.61	NGS DATA	FIRST
*	LJ 109	65.35	NGS DATA	FIRST

\* USED FOR LEVEL TIES ONLY, NOT PART OF THIS SURVEY.

THE NGS. GEOID 2003, GEOID MODEL AND AN ADDITIONAL ONE STATION (\*) LEVELED TO AND HELD IN THE VERTICAL COMPONENT OF THE ADJUSTMENT WERE USED TO DERIVE NGVD29 ORTHOMETRIC HEIGHTS USING GPS MEASUREMENTS.

## ADJUSTMENT NO. 2

### BASIS OF COORDINATES: CCS83, ZONE 6, 2004.0 EPOCH PER NGS DATASHEETS

THE HEREIN-LISTED NORTH AMERICAN DATUM OF 1983 (NAD83) LATITUDES, LONGITUDES AND ELLIPSOID HEIGHTS, AND, THE HEREIN-LISTED CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE 6 PLANE COORDINATES ALL PER EPOCH 2004.0 ARE BASED IN THE HORIZONTAL COMPONENT UPON THE FOLLOWING VALUES FOR FIVE CONTROL MONUMENTS OF B-ORDER ACCURACY OR BETTER AND TWO FIRST ORDER MONUMENTS.

\* COMPUTED TO 2004.0 EPOCH USING HTDP.

NO.	NAME	NORTHING	EASTING	ELLIPSOID HEIGHT	SOURCE	FGCC ORDER
OGHS	ORANGE GLEN HS	1992066.979	6319281.696	610.54	NGS DATA	(CORS)
SI03	SCRIPPS	1895871.559	6254482.497	117.16	NGS DATA	(CORS)
SMCS	SAN CLEMENTE	2108032.748	6139328.570	78.95	NGS DATA	(CORS)
11-07	CA HPGN 11-07	1992292.621	6247271.480	198.94	NGS DATA*	
SDGPS17	SAN DIEGO GPS 17	1878749.964	6285830.034	298.67	NGS DATA*	

### BASIS OF ELEVATION: NAVD88 ELEVATIONS PER NGS 1<sup>ST</sup> ORDER BENCHMARKS:

THE HEREIN LISTED NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ORTHOMETRIC HEIGHTS ARE BASED IN THE VERTICAL COMPONENT UPON THE FOLLOWING VALUES FOR THREE BENCHMARKS OF FIRST ORDER ACCURACY.

NO.	NAME	ORTHOMETRIC HEIGHT	SOURCE	FGCC ORDER
2001	SOLB-1	71.450	LEVELED LJ 109	2 <sup>ND</sup>
2008	LJ 106	15.750	NGS DATA	FIRST
1043	J 1415	34.665	NGS DATA	FIRST
*	L J 109	67.520	NGS DATA	FIRST

\* USED FOR LEVEL TIES ONLY, NOT PART OF THIS SURVEY.

THE NGS. GEOID 2003, GEOID MODEL WAS USED IN THE VERTICAL COMPONENT OF THE ADJUSTMENT TO DERIVE NAVD88 ORTHOMETRIC HEIGHTS USING GPS MEASUREMENTS.

### EXISTING CONTROL CHECK

CCS83 Zone 6, 1991.35 Epoch					EXISTING CONTROL CHECK								Notes
Pt. No.	Northing	Easting	NGVD29 Elevation	Pt. No.	RECORD EP No.	Northing	Easting	NGVD29 Elev.	Description	Dy	Dx	Dz	Notes
1	1938170.72	6255827.49	30.40	1	2006	1938170.72	6255827.49	30.38	SD GPS 195 - R.O.S. 14492	0.000	0.000	0.023	Hold GPS
2	1935803.05	6249239.99	13.61	2	2008	1935803.03	6249239.97	13.52	SD GPS 62 - R.O.S. 14492	0.016	0.016	0.090	BM LJ 106 Hold NGS Vertical
3	1945083.49	6253573.59	168.06	3	2010	1945083.49	6253573.59	168.16	ENC-46 - R.O.S. 18416	0.000	0.000	-0.100	Hold GPS
4	1949120.02	6250861.84	16.35	4	2011	1949119.98	6250861.83	16.41	ENC-44 - R.O.S. 18416	0.039	0.015	-0.057	2004 LEVELS
5	1945757.99	6246975.43	32.47	5	2012	1945757.99	6246975.43	32.51	ENC-43 - R.O.S. 18416	0.000	0.000	-0.040	BM J 1415 Hold GPS

Std. Dev. Dy 0.017  
Std. Dev. Dx 0.008  
Std. Dev. Dz 0.074

Pt. No.	Name	Latitude	Longitude	Ellipsoid Height	Geoid Height	CCS 83 2004.0		NAVD88 Elevation	CCS83 1991.35		NGVD29 Elevation	Convergence	Combined SF	Pt. No.
						Northing	Easting		Northing	Easting				
2001	SOLB-1	32° 59' 23.646578" N	117° 16' 15.798882" W	-42.626	-114.076	1941485.690	6248584.701	71.450	1941484.322	6248585.851	69.280	- 0° 33' 39.909"	0.99997420	2001
2002	SOLB-2	32° 59' 40.447864" N	117° 15' 45.402373" W	-3.448	-113.860	1943158.457	6251190.105	110.412	1943157.083	6251191.259	108.230	- 0° 33' 23.205"	0.99997185	2002
2003	SOLB-3	33° 0' 3.729610" N	117° 14' 19.011563" W	140.016	-113.339	1945440.802	6258570.042	253.354	1945439.431	6258571.196	251.177	- 0° 32' 35.732"	0.99996432	2003
2004	SOLB-4	32° 59' 27.587811" N	117° 14' 56.328841" W	201.507	-113.641	1941818.446	6255357.085	315.148	1941817.064	6255358.241	312.976	- 0° 32' 56.238"	0.99996241	2004
2005	SOLB-5	32° 59' 13.395859" N	117° 15' 38.946098" W	-6.788	-113.911	1940419.131	6251713.459	107.122	1940417.755	6251714.612	104.952	- 0° 33' 19.657"	0.99997279	2005
2006	SD GPS 195	32° 58' 51.556288" N	117° 14' 50.410432" W	-81.145	-113.717	1938172.119	6255826.324	32.572	1938170.720	6255827.490	30.403	- 0° 32' 52.986"	0.99997699	2006
2007	TURF	32° 58' 45.065350" N	117° 15' 23.100825" W	-96.232	-113.908	1937542.874	6253035.426	17.676	1937541.494	6253036.581	15.524	- 0° 33' 10.950"	0.99997790	2007
2008	LJ 106	32° 58' 27.500763" N	117° 16' 7.467725" W	-98.447	-114.197	1935804.425	6249238.834	15.750	1935803.046	6249239.986	13.610	- 0° 33' 35.330"	0.99997853	2008
2009	RACE	32° 58' 48.707991" N	117° 15' 58.017061" W	-35.877	-114.086	1937939.862	6250064.794	78.209	1937938.485	6250065.946	76.056	- 0° 33' 30.137"	0.99997490	2009
2010	ENC-46	32° 59' 59.735434" N	117° 15' 17.650428" W	56.588	-113.653	1945084.874	6253572.435	170.241	1945083.493	6253573.589	168.062	- 0° 33' 07.955"	0.99996843	2010
2011	ENC-44	33° 0' 39.412001" N	117° 15' 49.950724" W	-95.152	-113.694	1949121.388	6250860.686	18.542	1949120.015	6250861.840	16.353	- 0° 33' 25.705"	0.99997459	2011
2012	ENC-43	33° 0' 5.772770" N	117° 16' 35.199128" W	-79.377	-114.047	1945759.361	6246974.275	34.670	1945757.987	6246975.431	32.469	- 0° 33' 50.569"	0.99997477	2012

#### PT. NO. 2001 NAME SOLB-1

STAMPING SOLB-1, L.S. 7322, 2005

#### MONUMENT DESCRIPTION:

SET 2.5' CITY OF SOLANA BEACH BRASS DISC ON CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY 101. 0.1 MI. SOUTH OF LOMAS SANTA FE DRIVE.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED ON THE SOUTHEAST CORNER OF A DRAINAGE INLET ON A 5 FOOT SET BACK FROM THE EDGE OF PAVEMENT ON THE EAST SIDE OF HIGHWAY 101 0.1 MI. SOUTH OF LOMAS SANTA FE DRIVE.

#### PT. NO. 2002 NAME SOLB-2

STAMPING SOLB-2, L.S. 7322, 2005

#### MONUMENT DESCRIPTION:

SET 2.5' CITY OF SOLANA BEACH BRASS DISC IN TOP OF CURB OVER DRAINAGE INLET IN FRONT OF THE SOLANA BEACH LIBRARY ON STEVENS AVENUE.

#### TO REACH DESCRIPTION:

FROM THE INTERSECTION OF LOMAS SANTA FE DRIVE AND STEVENS AVENUE GO SOUTHERLY ON STEVENS AVENUE 0.1 MI. TO THE ENTRANCE TO THE SOLANA BEACH LIBRARY TURN RIGHT INTO PARKING LOT GO TO END OF CURB RETURN AT THE FRONT OF LIBRARY AND THE MONUMENT ON THE RIGHT

#### PT. NO. 2003 NAME SOLB-3

STAMPING SOLB-3, L.S. 7322, 2005

#### MONUMENT DESCRIPTION:

SET 2.5' CITY OF SOLANA BEACH BRASS DISC ON CONCRETE DRAINAGE INLET ON THE WEST SIDE OF THE INTERSECTION OF SAN MARIO DRIVE AND HIGHLAND DRIVE.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED ON THE BACK SIDE IN THE MIDDLE OF A 15 FOOT LONG DRAINAGE INLET ON THE WEST SIDEWALK OF HIGHLAND DRIVE. 70 FEET SOUTHERLY OF THE CENTER OF SAN MARIO DRIVE, AND 28 FEET SOUTHERLY OF THE CURB RETURN.

#### PT. NO. 2004 NAME SOLB-4

STAMPING L.S. 3065

#### MONUMENT DESCRIPTION:

FD. 2.5" BRASS DISC IN STANDARD STREET WELL MONUMENT IN THE CENTER OF CUL-DE-SAC OF SAN JULIO ROAD.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED 500 FEET NORTHERLY OF HIGHLAND DRIVE ALONG SAN JULIO ROAD IN THE CENTER OF A CUL-DE SAC AT THE CURB RADIUS POINT.

#### PT. NO. 2005 NAME SOLB-5

STAMPING SOLB-5, L.S. 7322, 2005

#### MONUMENT DESCRIPTION:

SET 2.5' CITY OF SOLANA BEACH BRASS DISC ON CONCRETE DRAINAGE INLET AT THE EAST END OF FRESCA COURT.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED ON THE SOUTHERLY CORNER OF A DRAINAGE CURB INLET IN THE MIDDLE OF THE CUL-DE SAC AT THE SOUTHEASTERLY END OF FRESCA COURT. 600 FEET SOUTHEASTERLY OF FRESCA STREET AND IS IN FRONT OF 754 FRESCA COURT.

#### PT. NO. 2006 NAME SD GPS 195

STAMPING GPS, 0195, 1992

#### MONUMENT DESCRIPTION:

FD. 2" IRON PIPE WITH 2.5" CITY OF SAN DIEGO BRASS DISC ON THE SOUTH SIDE OF VIA DE LA VALLE, 280 FEET EASTERLY OF SAN ANDRES DRIVE. NEAR A CHAIN LINK FENCE CORNER, DOWN 0.8 FEET FROM SURFACE.

#### TO REACH DESCRIPTION:

FROM THE INTERSECTION OF LOMAS SANTA FE DRIVE AND STEVENS AVENUE GO SOUTHERLY ON STEVENS AVENUE 0.1 MI. TO THE ENTRANCE TO THE SOLANA BEACH LIBRARY TURN RIGHT INTO PARKING LOT GO TO END OF CURB RETURN AT THE FRONT OF LIBRARY AND THE MONUMENT ON THE RIGHT

#### PT. NO. 2007 NAME TURF

STAMPING PLS 4965, TURF, 1990

#### MONUMENT DESCRIPTION:

FD. 3" CITY OF DEL MAR BRASS DISC SET FLUSH ON NORTH-WESTERLY CORNER OF A 10'X24' ELECTRICAL VAULT LOCATED IN CURB ISLAND AT THE SOUTHEAST CORNER OF VIA DE LA VALLE AND JIMMY DURANTE BOULEVARD.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED ON THE NORTHWEST CORNER OF A 10'X 24' CONCRETE ELECTRICAL VAULT IN THE CURB ISLAND AT THE SOUTHEAST CORNER OF JIMMY DURANTE BOULEVARD AND VIA DE LA VALLE.

#### PT. NO. 2008 NAME LJ 106

STAMPING LJ 106, 1968

#### MONUMENT DESCRIPTION:

FD. 4" SAN DIEGO COUNTY ENGINEERING DEPARTMENT BRASS DISC WITH NIPPLE SET FLUSH ON CONCRETE WING WALL AT THE SOUTH EAST CORNER OF HIGHWAY 101 BRIDGE OVER THE SAN DIEGUITO RIVER. 0.4 MI. SOUTH OF VIA DE LA VALLE.

#### TO REACH DESCRIPTION:

FROM THE INTERSECTION OF HIGHWAY 101 AND VIA DE LA VALLE GO SOUTH ALONG HIGHWAY 101 0.4 MI. TO THE BRIDGE OVER THE SAN DIEGUITO RIVER. CONTINUE SOUTH TO THE SOUTH END OF BRIDGE AND THE MONUMENT ON THE LEFT. THE MONUMENT IS LOCATED ON TOP OF THE WING WALL IN THE SOUTHEAST CORNER OF THE BRIDGE. 9.2 FEET NORTHERLY OF THE SOUTHERLY BRIDGE ABUTMENT AND 1.3 FEET EASTERLY OF THE EDGE OF BRIDGE.

#### PT. NO. 2009 NAME RACE

STAMPING ZONE 6, TRAVERSE STA. RACE, 1959

#### MONUMENT DESCRIPTION:

FD. 4" SAN DIEGO COUNTY BRASS DISC IN 10'X10" CONCRETE MONUMENT ON THE SOUTH SIDE OF VIA DE LA VALLE AND 525 FEET EASTERLY OF CEDROS AVENUE

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED ON THE SOUTH SIDE OF VIA DE LA VALLE, 525 FEET EAST OF CEDROS AVENUE. 10 FEET SOUTHERLY OF THE EDGE OF PAVEMENT. 55 FEET EASTERLY OF POWER POLE NO. P37818 AND 7 FEET SOUTHEASTERLY OF A TOW AWAY SIGN. THE MARK IS SET FLUSH WITH SURFACE.

#### PT. NO. 2010 NAME ENC-46

STAMPING ENC-46, L.S. 7322

#### MONUMENT DESCRIPTION:

FD. 2.5" CITY OF ENCINITAS BRASS DISC IN NORTHWEST CORNER OF CONCRETE DROP INLET IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF SANTA HELENA AND SANTA ROSITA STREETS.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED 60 FEET NORTH OF THE CENTER OF SANTA HELENA AND 20 FEET WEST OF THE CENTER OF SANTA ROSITA, 2 FEET WEST OF CURB.

#### PT. NO. 2011 NAME ENC-44

STAMPING SEV 104, 1974

#### MONUMENT DESCRIPTION:

FD. 3.5" DIAMETER CORPS OF ENGINEERS-US ARMY BRASS DISC STAMPED "SEV 104, 1974" SET IN CONCRETE STRUCTURE OF THE OLIVENHAIN PUMP STATION IN THE NORTHWEST QUADRANT OF MANCHESTER AVENUE AND THE NORTHBOUND INTERSTATE 5 OFF RAMP TO MANCHESTER AVENUE.

#### TO REACH DESCRIPTION:

THE MONUMENT IS LOCATED ON THE NORTH SIDE OF MANCHESTER AVENUE, 65 FEET WESTERLY OF THE CENTER OF THE NORTHBOUND INTERSTATE HIGHWAY 5 FREEWAY OFF RAMP. IN THE MIDDLE OF THE SOUTHERLY EDGE OF A CONCRETE SLAB FOR AN OLIVENHAIN MUNICIPAL WATER DISTRICT PUMP STATION.

#### PT. NO. 2012 NAME ENC-43

STAMPING J 1415, 1987

#### MONUMENT DESCRIPTION:

FD. 3.5" NATIONAL GEODETIC SURVEY DISC IN HEADWALL, 0.2 MILES NORTH OF SOLANA VISTA DRIVE ON THE EAST SIDE OF NORTHBOUND HIGHWAY 101, 3 FEET OFF SHOULDER AND 6 FEET WEST OF CARDOFF BY THE SEA SIGN.

#### TO REACH DESCRIPTION:

FROM THE INTERSECTION OF SOLANA VISTA DRIVE AND HIGHWAY 101, GO NORTH ON HIGH