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GUIDE TO THE PREPARATION

OF

RECORDS OF SURVEY

AND

CORNER RECORDS

Michael B. Emmons Chair Surveyor Policy Committee March 27, 2009 4th Revision

RECORD OF SURVEY AND CORNER RECORD

PREFACE

In writing this, it was the purpose of the County Engineers Association of California to develop a statement of procedure for filing records of survey and corner records which, if followed by the surveyor or engineer, would result in the document being filed with a minimum of difficulty in all of the counties. The materials presented here represent the results of this effort.

Recognizing that the Land Surveyor or Civil Engineer is a professional practitioner and that the Professional Land Surveyors' Act allows great flexibility in the preparation of the record of survey map, these materials are presented as guidelines which are believed to reflect good professional practice without being unduly restrictive. These guidelines are <u>NOT</u> to be construed as representing one method which is acceptable in all of the counties.

This Guide is current and conforms to the Professional Land Surveyors Act through January 1, 2009. It is not our intent to update it annually. That responsibility will be left up to each individual county.

This Guide was revised in June 1991 to include GPS records of survey guidelines (1st Revision). These guidelines were developed with the participation of the following agencies/ organizations:

County Engineers Association of California League of California Surveying Organizations Caltrans California Land Surveyors Association

Prepared by: Lou Hall -San Diego County

and

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Chair

Surveying and Land Use Committee

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2nd Revision by: John Canas -Orange County - January 1, 1995

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With input from:

The League of California Surveying Organizations –

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4th Revision by: Michael B. Emmons – Santa Barbara County – March 27, 2009

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The League of California Surveying Organizations -

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California Land Surveyors Association

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LAND SURVEYOR DEFINED

Surveyor or Land Surveyor as used in this guide shall refer to a licensed land surveyor or registered civil engineer authorized to practice land surveying in accordance with Section 8731 of the Professional Land Surveyors Act.

PURPOSES AND REQUIREMENTS FOR A CORNER RECORD

The corner record is the means by which the re-establishment or rehabilitation of public land survey corners or other property corners may be made of record and brought to public attention. The Professional Land Surveyors Act (Business and Professions Code, Chapter 15, Division 3, Section 8700 et.seq.) provides that:

1. A corner record shall be filed for every public land survey corner or accessory, except a "lost corner", which is found, set, reset or used as control in any survey by a Land Surveyor. (8773(a))

After the establishment of a lost corner, as defined by the <u>Manual of Instructions for the Survey of the</u> Public Lands of the United States, a record of survey shall be filed as set forth in Section 8764. (8773(c))

A Land Surveyor may file a corner record as to any property corners, property controlling corners, reference monuments or accessories to a property corner. (8773(c))

The filing of a corner record with the County Surveyor does not relieve the Land Surveyor of the responsibility to file a record of survey if required by Section 8762 of the Professional Land Surveyors Act.

A record of survey may be filed in lieu of a corner record.

- 2. A corner record shall be filed in cases where a Record of Survey is not required per 8765(d) when the survey is a retracement of lines shown on a subdivision map, official map or record of survey, where no material discrepancies with such record are found and sufficient monumentation is recovered to accurately locate the record corner positions and any property corners set, reset or found to be of a different character than indicated by prior records are shown thereon. (8765(d))
- 3. No corner record needs to be filed (8773.4) when:
 - (a) A corner record is on file and the corner is found as described in the existing corner record.
 - (b) All conditions of Section 8773 are complied with by proper notation on a record of survey or subdivision map filed in compliance with the Land Surveyor's Act or Subdivision Map Act.
 - (c) Section 8773.4 shall not apply to maps filed prior to January 1, 1974
 - (d) When the survey is a survey of a mobile home park interior lot as defined in Section 18210 of the Health and Safety Code, provided that no subdivision map, official map, or record of survey has been previously filed for the interior lot or no conversion to residential ownership has occurred pursuant to Section 66428.1 of the Government Code.

The corner record was created to fill the need for a short and inexpensive method of making survey information available to the public without the necessity of a record of survey. The County Engineers Association of California believes that the following interpretation of the Professional Land Surveyors Act as it relates to corner records is a reasonable approach and in line with the purpose for which the corner record was created.

- 1. The corner record shall be legible, clear and dark enough for archival and reproduction purposes. All signatures to be in ink.
- 2. A Corner Record shall be a single 8.5 x 11 inch sheet which may consist of a front and back page.
- 3. When monuments are recovered, their record, status and description shall be identified. "No record" monuments shall be identified as such.
- 4. The corner record shall clearly indicate the method used to determine the location of all monuments set.
- 5. A corner record may be used when monuments are set at points previously shown on a subdivision map, official map or record of survey.
- 6. More than one monument can be shown on a corner record provided the sketch is adequate to indicate how each monument was set and its relationship to other monuments of record.
- 7. The survey of a parcel described by a "metes and bounds" description and not shown on a previously filed or recorded subdivision map, official map or record of survey requires that a record of survey be filed.
- 8. Unless a Record of Survey is filed, a corner record shall be filed on property corners within a subdivision where no original monuments are shown to have been set, provided there is no material discrepancy with record and sufficient monumentation is found to establish the precise location of property corners thereon. (8765(d))
- 9. Sections 8762 (b) and 8765 (d) of the Professional Land Surveyor's Act limits "material discrepancy" to the material discrepancy in the position of points, lines, or in dimensions.
- 10. A reference to the California Coordinate System is optional at the discretion of the submitting surveyor. However, if a reference to the California Coordinate System is shown, field measured ties to CCS83 points must be shown. Refer to Sections 8813 and 8817 of the Public Resources Code.
- 11. Any survey based upon the metric system shall be clearly identified as such. It is recommended that a bold note and/or metric logo be placed on the page with the drawing.
- 12. A Corner Record or Record of Survey shall be filed to perpetuate existing monuments as referenced in Section 8771(b) of the Professional Land Surveyors Act.

RESPONSIBILITIES OF THE PRIVATE SURVEYOR

-CORNER RECORD-

- 1. The surveyor is responsible to recognize the conditions permitting the use of a corner record in compliance with the Professional Land Surveyors Act.
- 2. The surveyor shall complete, sign, date and stamp with his/her seal, enter expiration date of license or registration, and file with the County Surveyor of the County in which the corner is located, a corner record when required. (411(h))
- 3. The sketch prepared as part of the corner record shall be sufficiently complete and in accordance with Board Rule 464 to allow another surveyor to determine the method used to establish the corner. The drawing shall show measurements which relate the corner to other identifiable monuments. (Board Rule 464 (a)(6))
- 4. The surveyor shall reconstruct or rehabilitate the corner monuments shown on a corner record and accessories to such corners, so that the same shall be left by him/her in such physical condition that it remains a permanent monument. (8773.3)
- 5. The surveyor shall file the corner record within 90 days from the date a corner was found, set, reset or used as control on any survey, when required. (Board Rule 464(10)(c), 8762 LS Act)

STATE OF CALIFORNIA, BUSINESS & PROFESSIONS CODE

8771. Record of survey - monumentation

- (a) Monuments set shall be sufficient in number and durability and efficiently placed so as not to be readily disturbed, to assure, together with monuments already existing, the perpetuation or facile reestablishment of any point or line of the survey.
- (b) 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. Sufficient controlling monuments shall be retained or replaced in their original positions to enable property, right-of-way and easement lines, property corners, and subdivision and tract boundaries to be reestablished without devious surveys necessarily originating on monuments differing from those that currently control the area. It shall be the responsibility of the governmental agency or others performing construction work to provide for the monumentation required by this section. It shall be the duty of every land surveyor or civil engineer to cooperate with the governmental agency in matters of maps, field notes, and other pertinent records. Monuments set to mark the limiting lines of highways, roads, streets or right-of-way or easement lines shall not be deemed adequate for this purpose unless specifically noted on the corner record or record of survey of the improvement works with direct ties in bearing or azimuth and distance between these and other monuments of record.
- (c) The decision to file either the required corner record or a record of survey pursuant to subdivision (b) shall be at the election of the licensed land surveyor or registered civil engineer submitting the document.

[Amended, Chapter 1054, Statutes of 2000]

* When using a corner record to perpetuate vertical control, the bench mark should be suitably relocated prior to construction rather than reset in its original position after street rehabilitation.

RESPONSIBILITIES OF THE COUNTY SURVEYOR

WHEN REVIEWING A CORNER RECORD

- 1. The County Surveyor shall, by examination, assure that the corner record does not indicate a division of land nor require a record of survey, after which he/she shall file the corner record.
- 2. The County Surveyor of the County containing the corner shall receive and file the completed corner record by assigning a document number to the corner record and securing it in a book for that purpose. (8773.2)
- 3. Corner records shall be filed and cross-indexed in such a manner to be readily available to the public for research purposes. (8774.5)
- 4. The County Surveyor shall examine the corner record within 20 working days after receipt for conformance with the Professional Land Surveyors Act. (8773.2)
- 5. Should the County Surveyor discover that a problem exists with the corner record, as submitted, he/she shall return it to the surveyor or engineer authorized to practice land surveying who submitted it, with a full written explanation of the problem. The surveyor or engineer who submitted the corner record has the option of correcting the corner record or asking the County Surveyor to file it as originally submitted. If the surveyor or engineer requests the County Surveyor to file the corner record as originally submitted, the County Surveyor shall describe the problem in the County Surveyors comment on the form and file it as requested within 10 working days after receipt. When the County Surveyor places an explanatory note on a corner, he/she shall transmit a copy of the filed document within 10 working days of the filing to the submitting land surveyor or registered civil engineer. (8773.2)

The required form to use and examples of corner records now filed within the State are provided as an example of properly executed corner records.

SECTION 464 –BOARD RULES

464. Corner Record.

- (a) The corner record required by Section 8773 of the Code for the perpetuation of monuments shall contain the following information for each corner identified therein:
 - (1) The county and, if applicable, city in which the corner is located.
 - (2) An identification of the township, range, base, and meridian in which the corner is located, if applicable.
 - (3) Identification of the corner type (example: government corner, control corner, property corner, etc.).
 - (4) Description of the physical condition of
 - (A) the monument as found and
 - (B) any monuments set or reset.
 - (5) The date of the visit to the monument when the information for the corner record was obtained.
 - (6) For Public Land Corners for which a corner record is required by Section 8773(a) of the Code, a sketch shall be made showing site recovery information that was used for the corner. For other kinds of corners, a drawing shall be made which shows measurements that relate the corner to other identifiable monuments.
 - (7) A reference to the California Coordinate System is optional at the discretion of the preparer of the record.
 - (8) The date of preparation of the corner record and, as prescribed by Section 8773.4 of the Code, the signature and title of the chief of the survey party if the corner record is prepared by a United States Government or California State agency or the signature and seal of the land surveyor or civil engineer, as defined in Section 8731 of the Code, preparing the corner record.
 - (9) The date the corner record was filed and the signature of the county surveyor.
 - (10) A document or filing number.
- (b) A corner record shall be filed for each public land survey corner which is found, reset, or used as control in any survey by a land surveyor or a civil engineer. Exceptions to this rule are identified in Section 8773.4 of the Code.
- (c) The corner record shall be filed within 90 days from the date a corner was found, set, reset, or used as control in any survey. The provisions for extending the time limit shall be the same as provided for a record of survey in Section 8762 of the Code.
- (d) A corner record may be filed for any property corner, property controlling corner, reference monument, or accessory to a property corner, together with reference to record information. Such corner record may show one or more property corners, property controlling corners, reference monuments, or accessories to property corners on a single corner record document so long as it is legible, clear, and understandable.
- (e) When conducting a survey which is a retracement of lines shown on a subdivision map, official map, or a record of survey, where no material discrepancies with these records are found and where sufficient monumentation is found to establish the precise location of property corners thereon, a corner record may be filed in lieu of a record of survey for any property corners which are set or reset or found to be of a different character than indicated by prior records. Such corner records may show one or more property corners, property controlling corners, reference monuments or accessories to property corners on a single corner record document so long as it is legible, clear, and understandable.
- (f) The standard markings and standard abbreviations used by the Bureau of Land Management (formerly the General Land Office) of the United States Department of the Interior shall be used in the corner record.
 - (g) The corner record shall be filed on a form prescribed by the Board. The approved form is BORPELS-1297.

PURPOSE AND REQUIREMENTS FOR A RECORD OF SURVEY

The record of survey is the means by which field surveys relating to property lines, land boundaries or other subjects are brought to public attention. The Professional Land Surveyors Act (Business and Professions Code, Chapter 15, Division 3, Section 8700 et. Seq.) provides that a record of survey made in conformance with the practice of land surveying as defined therein may be filed with the County Surveyor of the county in which the survey was made. It further provides that a record of all surveys relating to land boundaries or property lines shall be filed when certain conditions exist.

A record of survey is required of any field survey relating to land boundaries or property lines whenever the survey discloses any of the following:

1. Material evidence or physical change which in whole or in part does not appear on any previously filed or recorded subdivision map, official map or record of survey or survey record maintained by the Bureau of Land Management of the United States. (8762(a))

"Material evidence" has been defined as evidence of sufficient import as to affect the outcome of a court case, and includes, but is not limited to, the particular items mentioned in Section 8764 of the Professional Land Surveyors Act. This section requires that the record of survey show monuments both "found" and "set", however, the resetting of a previously recorded monument which has become dilapidated would not in and of itself require the filing of a new record of survey but merely a corner record. As long as the purpose and functional identity of the previously recorded monument is maintained by the new monument, and as long as the record (of the monument) is not abrogated by the new monument, there would be no need for a new record of survey.

"Physical change" would apply to topographic or landmark features of importance to the survey which, if not noted, may adversely affect the interpretation of the survey. In regard to monuments, physical change would include the discovery of any evidence pertinent to a monument (except as discussed above) which differs from the previous existing record of said monument.

When the monument to any corner of the Public Survey of the United States or any accessory thereto, (or any other survey corner or control point at the option of the Land Surveyor or Civil Engineer) is found, reset, or used as control in a survey and the same is not shown on a previously recorded record of survey, official map, or subdivision map, such corner or control point shall be reported by means of a corner record or record of survey, as required by the Professional Land Surveyors Act.

2. Material discrepancy with a map of prior record as specified in Section 8762, or other evidence that, by reasonable analysis, might result in alternate positions of lines or points. Sections 8762 (b) and 8765 (d) of the Professional Land Surveyors Act limits "material discrepancy" to material discrepancy in the position of points or lines, or in dimensions.

Here, "material discrepancy" would be any discrepancy in dimensions or positions occurring between the current survey and a survey or map of prior record such that alternate or varying conclusions or interpretations might arise between the two. Factors such as the date(s) of the survey(s), the survey methods and equipment contemporary with said date(s), land values and the requirements of the survey(s), would combine to determine the seriousness of the discrepancy, at which time a professional judgment would be rendered to justify the course of action.

- 3. Any line or lines not shown on a map of prior record, the positions of which are not ascertainable from an inspection of such map.
- 4. The points or lines set during a survey of any parcel described in any deed or other instrument of title recorded in the County Recorder's Office and not shown on any subdivision map, official map, or record of survey. This includes new lines created by lot line adjustments that are monumented or are established during the course of a field survey.
- 5. After the establishment of a lost corner, as defined by the <u>Manual of Instructions for the Survey of the Public Lands of the United States</u>. (8773 (b))

A record of survey is not required per Section (8765) if any of the following conditions exist:

- 1. The survey was made by a public officer or under his direction, in his official capacity and a reproducible copy thereof, showing all the data required by Section 8764 with the exception of the recorders statement, has been filed with the County Surveyor of the county in which the land is located.
- 2. The survey was made by the U.S. Bureau of Land Management.
- 3. A Final Map or Parcel Map is in preparation for recording under the provisions of the Subdivision Map Act.
- 4. When the survey is a retracement of lines shown on a subdivision map, official map, or a record of survey, where no material discrepancies with those records are found and sufficient monumentation is found to establish the accurate location of property corner thereon, <u>provided</u> that a corner record is filed for any property corners which are set or reset or found to be of a different character than indicated by prior records.
- 5. When the survey is of interior lots in a mobile home park provided that the park has not converted to residential ownership or no subdivision map, official map or record of survey has been previously filed of record.

A record of survey cannot be used to create a division of land. All divisions of land must be made by means of a subdivision map, unless exempted by the Subdivision Map Act.

Any line shown on a record of survey map which does not represent an existing title line and which appears to create a new parcel of land shall be clearly labeled as to its purpose.

RESPONSIBILITIES OF THE PRIVATE SURVEYOR

-RECORD OF SURVEY-

- 1. The surveyor is responsible to recognize the need to file a record of survey in accordance with Section 8762 of the Professional Land Surveyors Act.
- 2. The surveyor must verify that no violation of the Subdivision Map Act will be created by the filing of the record of survey.
- 3. The survey must be made in conformance with the accepted practices of land surveying in the State of California and the latest edition of the Professional Land Surveyor's Act and of Section 465 of the Rules and Regulations of the Board for Professional Engineers and Land Surveyors.
- 4. The survey must be made under the direct supervision of a licensed Land Surveyor in accordance with Section 8762 of the Professional Land Surveyors Act.
- 5. All information pertinent to the establishment of land boundary lines must be clearly shown or referenced on the map of the survey. It shall be the responsibility of the surveyor to examine available records in analyzing his or her survey.
- 6. Lines of occupation or features near corners shall be shown if they assists in determining the location of boundary lines and must be shown if they indicate possible alternate locations.
- 7. The surveyor shall administer and certify oaths when necessary in accordance with Section 8760(a) of the Professional Land Surveyors Act and so indicate on his/her map.
- 8. The surveyor shall supply the County Surveyor with copies of pertinent deeds, field notes, and other such evidence not readily available in the office of the County Surveyor to aid in the examination of the map.
- 9. The surveyor shall deliver to the County Surveyor the required number of prints of each sheet and shall deposit with him/her the required examination and filing fees when or as required.
- 10. Upon the filing of a record of survey or amended record of survey the surveyor who prepared the map shall transmit a copy of the map, including all recording information, to the County Surveyor, who shall maintain an index, by geographic location, of the maps. The County Surveyor may charge a fee equal to the cost of recording the maps for the purpose of maintaining an index of the maps. This requirement shall not apply to any county which requires these documents to be transmitted to the County Surveyor and requires that official to maintain an index of those documents.
- 11. The surveyor should encourage the filing of record of survey maps in other situations where a public record would be desirable but not necessarily mandatory under Section 8762 of the Professional Land Surveyors Act.

RESPONSIBILITIES OF THE COUNTY SURVEYOR

WHEN EXAMINING A RECORD OF SURVEY

- 1. The Professional Land Surveyors Act requires the County Surveyor to examine the map for conformance with the requirements of Section 8766 of said Act.
- 2. Section 8766 states that the County Surveyor shall examine the map within 20 working days or such additional time as may be mutually agreed upon, with respect to:
 - a. Its accuracy of mathematical data and substantial compliance with the information required by Section 8764 of the Professional Land Surveyors Act.
 - b. Its compliance with Section 8762.5, 8763, 8764.5, 8771.5, and 8772 of the Professional Land Surveyors Act.

The Land Surveyor submitting the record of survey shall not be required to change the methods or procedures utilized or employed in the performance of the survey, nor is a field survey required for the County Surveyor to verify the data shown on the record of survey. The County Surveyor may add notes to the record of survey expressing opinions regarding the methods or procedures used.

The County Surveyor's examination shall be performed by, or under the direct supervision of a licensed Land Surveyor.

- 3. County Surveyor endorsement -If the County Surveyor finds that the record of survey complies with the examination in Section 8766, the County Surveyor shall endorse a statement on it of his or her examination, and shall present it to the County Recorder for filing. Otherwise, the County Surveyor shall return it to the person who presented it, together with a written statement of the changes necessary to make it conform to the requirements of Section 8766. The Licensed Land Surveyor submitting the record of survey may then make the agreed changes and note those matters which cannot be agreed upon in accordance with the provisions of Section 8768 and shall resubmit the record of survey within 60 days or within a time that is mutually agreed upon. (8767)
- 4. Record of survey explanations of differences: If the matters appearing on the record of survey cannot be agreed upon by the licensed Land Surveyor and the County Surveyor within 10 working days after the licensed Land Surveyor resubmits and requests the record of survey be filed without further change, an explanation of the differences shall be noted on the map and it shall be presented by the County Surveyor to the County Recorder for filing, and the County Recorder shall file the record of survey. The parties shall attempt to reach agreement regarding the language for explanation of the differences and if an agreement cannot be reached, then both shall add a notation explaining the differences. The explanation shall be specific to identify the factual basis for the difference. (8768)
- 5. Upon completion of his examination of the map, the County Surveyor shall endorse a statement on the map showing his or her stamp or seal and the expiration date of his or her license or registration and present it to the County Recorder for filing.

<u>Note</u>: The following page is a guideline endorsed by the County Engineers Association for the review of Records of Survey by the County Surveyor. The guideline is based upon the provisions of the Business and Professions Code and is intended to provide consistency in map checking statewide.

County Engineers Association of California

RECORD OF SURVEY CHECK SHEET

First Check			File No
	Fee Paid \$	Date Paid	
Survey Requested	By		Checked By Location
Circle (0) indicate	es deficiency – Check	x (√) indicates no	deficiency
Business and Professi	ions Code, Chapter 15, Div	vision 3, Section 8700 e	et seq.
	•		
Map appears to Map required.	o create a division of land; \$. (8762.5)	Subdivision or Parcel	Margin: 1" or 025 mm all around. (8763) Map orientation, title and map body to read from bottom or right side of sheet when north arrow points away from reader where
MAP TITLE			practicable.
Name of City,			North arrow. (8764)
Name of Coun			Scale. (8764)
"RECORD OF	ption of land surveyed. (876	54)	City, County or State boundary lines as required. Reference to adjacent tracts or other maps of record when
Date of survey		J+)	pertinent. (8764(d))
•	when two or more sheets.		portment. (0701(d))
,			Legibility of map data. (8763)
CERTIFICATES			Street names and widths shown.
	ler's Certificate or space for	r same (8764.5)	Reference for all found monuments or statement of acceptance
Surveyor's Sta		, ,	if used as a control monument (8764)
	and sealed (8764.5 & 411(h vor's Statement (8764.5)))	Reference to deeds or official records if necessary for the establishment of lines or points (8764).
Certificate per	Sec. 8762.5, if applicable.		Record measurements in parenthesis to be shown when
	of oaths, if applicable (876)	0)	beneficial to the interpretation of lines or points or substantially
No nontechnic	al certificates or statements	on map. (8764.5)	different from measured.
			Purpose indicated for all easements shown.
SURVEYOR'S NOTE			Detail required for clarity.
	ngs: map of record, celestial		Arrows needed to clarity dimensions.
	nates, or County Surveyor's nonuments should be shown		No ditto marks Spelling
	include type, size, LS or RC		Spennig
	onstandard abbreviations d		SURVEY PROCEDURES
·			Survey based upon sufficient control.
MATHEMATICAL A			Additional survey information required (8762)
	osures less than 0.02 ft	·*	Prorations correct.
Bearings show			Sectional breakdowns correct.
Distances show Overall bearing			Deed interpretations correct Durable monuments sufficient in number. (8771)
	gs shown qual total distance or delta. ³	k	Monuments tagged. (8772)
	own. (Minimum = Delta, Ra		Relationship to adjacent lines of record when pertinent. (8764)
	shown where appropriate.	8 7	Methods of establishment of lines or points shown where
Areas shown if	f required for survey		necessary. (8764)
Others			Other
* Allowable tolerances	s for rounding are to be expe	ected.	
MAP BODY			
	al; tracing cloth or poly	astar hasa film: hlac	k ink
(8763)	ar, tracing cloth or pory	cotor base min, blac	K IIIK
	x 26" or 460 x 660 mm (87	63)	
To the Surveyor:			
Pursuant to Section 876 office with:	67 of the land Surveyor's A	ct, the subject map shal	l be corrected as indicated on the above check list and / or check print and returned to the
☐ Corrected I	Prints		
☐ The correct	eted original and the	filing fee (Paya	able to County Recorder)
			(Name), County Surveyor
			Deputy

EXPLANATORY NOTES FOR RECORD OF SURVEY CHECK SHEET

The notes below apply to the stated items on the Check Sheet. The remaining items are (hopefully) self-explanatory.

A. <u>MAP TITLE</u>: The recommended title block for the map sheet shall contain the essential items listed on the Check Sheet and shall, for the sake of conformity, follow the basic format shown on the sample sheet.

B. SURVEYOR'S NOTES:

- 1. Basis of Bearings: The bearings shown on the map shall be defined in terms of one of the following:
 - a. A line appearing shown or described on an existing map or title document of record. The reference line shall be a line between any two existing monuments which have been made a part of the current survey and have been shown on the map. The bearing of the reference line shall be shown on the map. Acceptable for reference purposes are final maps, parcel maps (based on a field survey), records of survey maps, City or County Surveyor or Engineer maps, State Highway Department Coordinate Control maps and those Deeds with calls to or for monuments having been previously set.

The form of the note shall be substantially as follows: "The basis of bearings for this survey is the North line of the NW \(^14\) Sec. 3, T.7S., R.2W., S.B.M., shown on R.S. 54/23-25 as S89°21'58"E."

b. A solar or stellar observation.

If the astronomic observations were made on a line which is monumented and shown on the map, the note shall make specific reference to that line as, for example:

"The basis of bearings for this survey is the centerline of Sierra Road, shown hereon as $N10^{\circ}15'20"E...$; as determined by observation of (Polaris) (the sun).

If the astronomic observations were made on a line not appearing on the map, the note may be generalized to indicate that the bearings shown on the map are referred to the true meridian as determined by observation of (Polaris) (the sun).

In either case, the field notes of the sun or Polaris observation and connection to the lines on the map shall be made available to the County Surveyor for his review.

c. The California Coordinate System: When this system is used, the map shall show the line or lines connecting the survey to the control stations used, showing the grid bearings between them, and the relationship between grid north and astronomic north (theta angle). Should coordinates be shown for points established on the map, the control scheme by means of which the coordinates were determined must also be shown on the map. Refer to Section 8813 of the Public Resources Code.

The form of the note shall be substantially as follows: "The basis of bearings for this survey is the California Coordinate System (NAD 27 or NAD 83) Zone 5, as determined locally by the line between USG&GS stations BACHELOR and MARCH, shown herein as: N27°32'15"E." If an FGCS, or its successor, order of accuracy is claimed for a survey or a map, it shall be justified by additional written data that shows equipment, procedures, closures, adjustments, and a control diagram.

<u>Note</u>: Public Resources Code, Section 8817 requires NAD 83 on all new surveys and new mapping projects effective January 1, 1995. The Federal Geodetic Control Subcommittee (FGCS) was formerly the Federal Geodetic Control Committee.

- 2. Any survey based upon the metric system shall be clearly identified as such. It is recommended that a bold note and/or metric logo be placed conspicuously on the map.
- 3. Other explanatory notes and comments as required.

C. MAP BODY:

- 1. All lettering shall be placed so as to be read most conveniently with the North arrow pointing away from the reader where practicable.
- 2. <u>Adjacent Subdivisions, etc</u>: The relationship to those portions of adjacent tracts, streets, or senior conveyances which have common lines with the survey.
- 3. <u>References for Found Monuments:</u> All monuments shown as "found on the map shall be described as to type, material, height relative to the ground surface, stamping/tagging, with a reference to a record map or field book where the monument was shown as having been set or accepted for use as the corner cited. If no record can be found to substantiate the monument, indicate same. It is recommended that untagged monuments used for control or accepted as corners be tagged by the surveyor in responsible charge.

D. LEGIBILITY OF MAP DATA:

(Note: The County Surveyor as ex officio County Recorder is responsible for determining the clarity, legibility and archival quality of a map and based on these criteria can make a determination as to the recordability of a map. The following are some general recommendations.)

- 1. <u>Lines</u>: Normally, the weight of a line is used to denote a specific level of importance to that line, the heavier lines being of more importance than the light weight lines. It has been customary to represent various types of lines as follows:
 - a. Lines denoting the boundary of the land requested specifically to be surveyed are shown with heavy solid lines, the weight being usually three times greater than that of other lines on the map, except the border, unless clarity dictates otherwise.
 - b. Public street side lines are shown by light solid lines, unless clarity dictates otherwise.
 - c. Other lines (adjoining lots, tracts, etc.) are shown as light dashed lines, unless clarity would dictate otherwise. Lines that do not contribute to the easy interpretation of the map shall be kept to a minimum.
 - d. Other special purpose lines may be used (e.g., centerlines, county boundary lines, section lines, control lines, etc.) but shall be clearly identified by note or symbol.
- 2. <u>Lettering</u>: Lettering shall be of an open, rounded style, either vertical or slanted, and of such size that it can be reproduced via microfilming, scanning or equivalent processes and still be easily read. Experience has indicated that the minimum size of lettering which will meet these requirements is 0.080", with a pen size that will keep the letters open. A sufficient space shall be left between any letters and lines to insure that the lettering will not bleed into the lines when reproducing a map copy from microfilm.

THE LEAGUE OF CALIFORNIA SURVEYING ORGANIZATIONS

GPS RECORD OF SURVEY

GUIDELINES REVISED JULY 1, 1999

PREPARED BY

CEAC GUIDE REVISION COMMITTEE

LEGEND: The numbers shown hereon correspond to particular items on the map.

- (1) Purpose statement: This shall include the adjustment year and zone, as well as GPS survey type: static, rapid static, kinematic or pseudo-kinematic.
- (2) Reduction software and version report.
- (3) Location and name of stations established, including datum and adjustment epoch (date).
- (4) Basis of Bearings Note: Although the term "Basis of Bearings" is used here, this note indicates which stations are used rather than which line is held. Grid and geodetic coordinates are shown.
- (5) Location and name of NGS fixed stations used to constrain the adjustment of the positions of the stations established hereon.
- (6) Location, name and adjustment epoch (date) of stations held fixed and show the zone applicable to county.
- (7) This note defines the distances as being grid.
- (8) Combination factor for each station is shown. Ground distances between any two stations may be computed using the average factor of the two combination factors.
- (9) Indicates where to find the reference for any station shown on the map.
- (10) FGCS procedures used.
- (11) (Typical) Location of major streets and highways showing the relationship of the GPS points to them. Quad sheet name and date for screened background, if used.
- (12) Schematic diagram showing the relationship of the stations. Connecting stations with vectors are not necessary. As an option for information on this record of survey, the solid lines represent intervisibility and the dashed lines represent non-intervisibility.
- (13) Table showing station number, name and description of monument and general location.
- (14) If elevations are shown, include a statement explaining how the elevations were obtained, i.e., "Geoid heights determined by ", or "Orthometric elevations shown were derived using and applying this value to the ellipsoidal height".

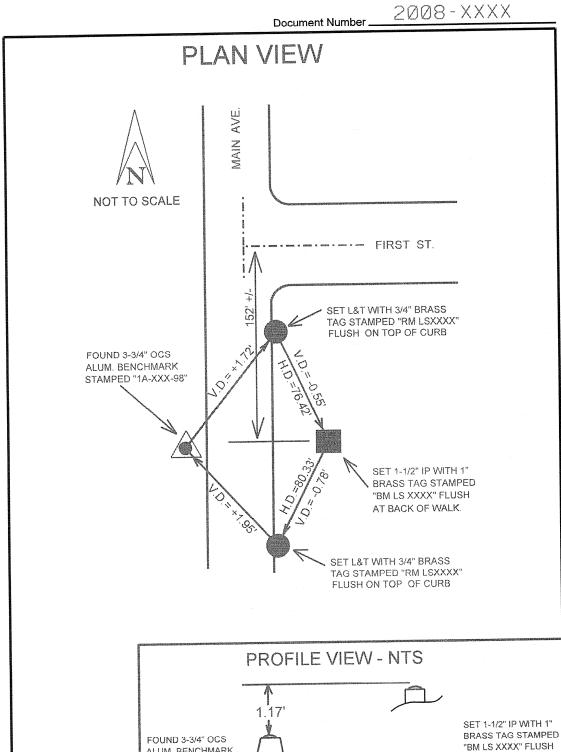
Sample Corner Records & Records of Survey

(This section reserved for counties to provide samples from their respective jurisdictions)

Vertical Corner Record

CORNER RECORD	Document Number 2008 - XXXX
City of SANTA ANA	County of ORANGE, California
Brief Legal Description COUNTY OF ORAN	<u>GE BENCHMARK "1A-XXX-98"</u>
Bildi Logal Bosonpasi.	OCCUPANATES (Ontional)
CORNER TYPE	COORDINATES (Optional)
Government Corner Control	E
Meander Prope	Zone NADZ/ LI NADOS LI
Rancho C Other	K Elev
Date of Survey 01/01/09	Meas. Units: Metric I Imperial I
Corner — Left as found Found and tagged	Established Reestablished Rebuilt
Identification and type of corner found; Evidence used to ident	ify or procedure used to establish or reestablish the corner:
FOUND Ö.C.S. BENCHMARK	STAMPED 1A-XXX-98. RECOUNTY OF ORANGE
BENCHMARK WAS FUUND PER	SHEET 1A-XXX-98.
VERTICAL CONTROL DATA S	OFFICE THE ANA TO S
	e found and as set or reset: SET 2
A description of the physical condition of the monument a	S lound and as set of reset.
CURB AND 1-1/2" I.P. WI	TH BRASS TAG STAMPED
"BM LS XXXX", FLUSH IN I	DIRT AT BACK OF WALK.
SURVEYOR'S STATEMEN	T
This Corner Record was prepared by me or under my dire	
the Land Surveyor's Act on	
Signed Clam Domes (L.S)	or R.C.E. No. XXXX (* EXP. 9/30/89)*
	NO. XXXX
COUNTY SURVEYOR'S STAT	EMENT COF CALIF
This Corner Record was received	2000
	2009 Super CEY COOK FOR THE SEE COOK FOR
	11 301
	or R.C.E. No. ZZZZ (((EXP. 9/38/89) *)
Title COUNTY SURVEYOR	NO. 2222
	OF CALL
County Surveyor's Comment	

AT BACK OF WALK.



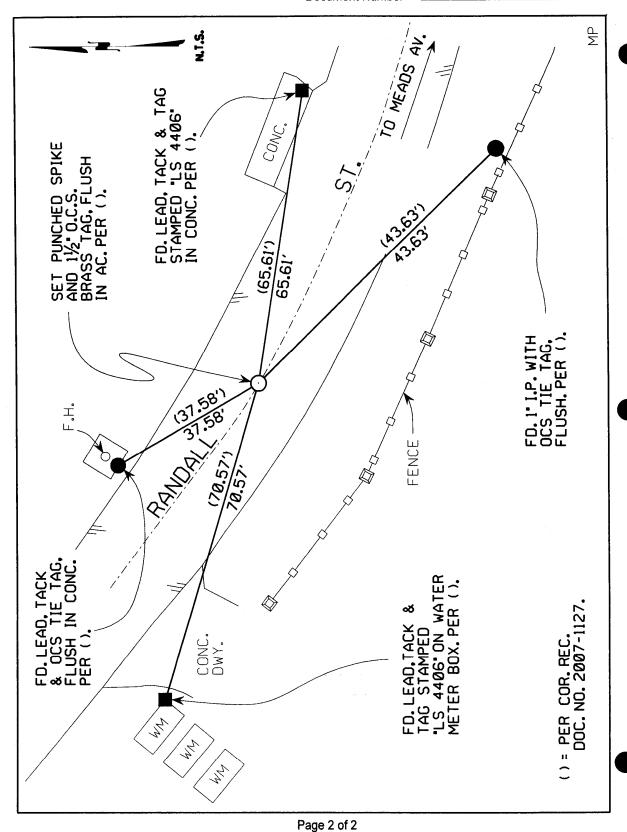
Page 2 of 2

ALUM, BENCHMARK

STAMPED "1A-XXX-98"

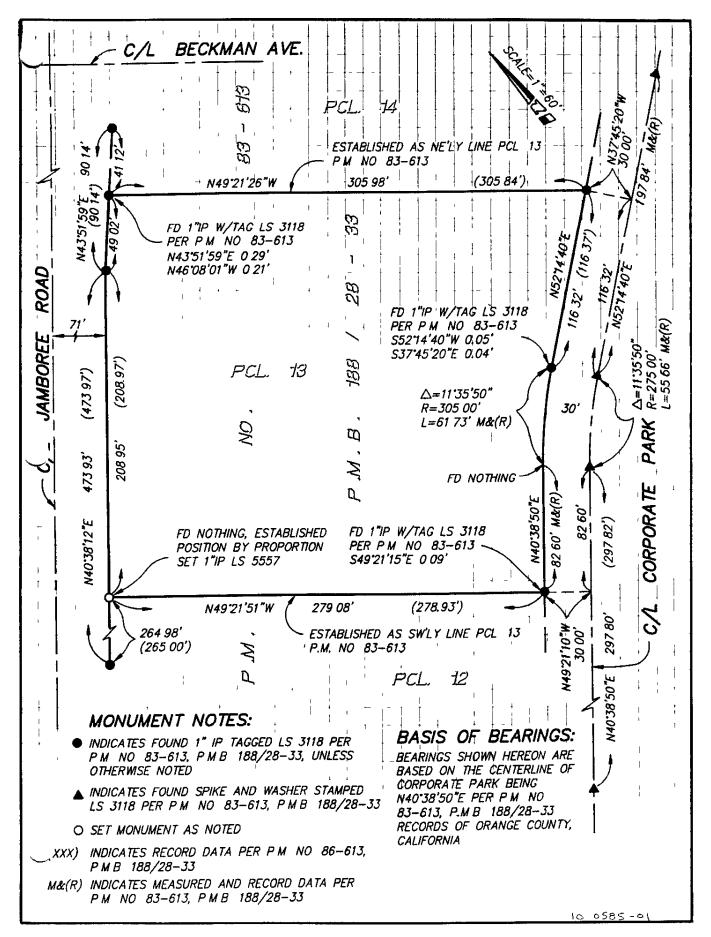
Monument Preservation Corner Record

CORNER RECORD	Document Number	2007-1	1861
City of UNINCORPORATED ORANGE COUN	ITY County of		, California
Brief Legal Description RE-ESTABLISHMENT (430' +/- W'LY OF MEA	OF EC MONUMEN ADS AV. PER COF	T OF RANDAL R.REC. DOC.NO COORDINATE	. 2007-1127
Rancho Othe	perty 🗍	N E Zone NAD83 Epoch Elev Vert. Datum: NGV29	NAD27 NAD83 NAD83 NAD27 NAD83 NAVD88
Date of Survey JULY 30, 2 Corner — Left as found ☐ Found and tagged			Rebuilt
Identification and type of corner found; Evidence used to IT IS THE PURPOSE OF THIS CORNERE-ESTABLISHED POSITION OF SAID TO DETERMINE THE VALIDITY OF THE LOCATIONS IN RELATION TO LEGAL	R RECORD TO F MONUMENT.NO HE MONUMENTS	PERPETUATE ATTEMPT WA OR THEIR PR	S MADE OPER
A description of the physical condition of the monument of SET PUNCHED SPIKE AND 1½" O.C.S. PER CORNER RECORD DOCUMENT NO.	BRASS TAG, FLU		
COUNTY SURVEYOR'S ST.	ection in conformance wi , 2007 C.E. No5967	(EXP.	AND SUPULION 12/31/08 12/31/08 AND SUPULION HORACOLOR
Signed	R.C.E. No. 7212		0. 7212 OF CALIFORNIA
County Surveyor's Comment			



Boundary Corner Record

and filed October 27th 1998 Signed Abbert Jelines Title DEPUTY COUNTY SURVEYOR Title DEPUTY COUNTY SURVEYOR	CORNER RECORD			WM 36W
COUNTY SURVEYOR'S STATEMENT SURVEYOR'S STATEMENT SURVEYOR'S STATEMENT COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR'S STATEMENT COUNTY SURVEYOR'S STATEMENT Title DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR TITLE DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR TITLE DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR TITLE DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR TITLE DEPUTY COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR TITLE COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR TITLE COUNTY SURVEYOR COUNTY SURVEYOR TITLE COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR THE COUNTY SURVEYOR COUNTY SURVEYOR COUNTY SURVEYOR THE COUNTY SURVEYOR COU	10.11.15	Document Nui	mber <u>98</u>	
CORNER TYPE COORDINATES (Optional) Government Comer Control N Meander Property Zone Datum Rancho Other Zone Datum Elev Date of Survey MAY, 1992 Elev Corner Left as found Found and tagged Established Reestablished Rebuilt dentification and type of comer found Evidence used to identify or procedure used to establish or reestablish the comer RE-ESTABLISHED PROPERTY CORNER FROM FOUND MONUMENTATION AS SHOWN ON PAGE 2 OF 2, A description of the physical condition of the monument as found and as set or reset SEE PAGE 2 OF 2, SURVEYOR'S STATEMENT This Comer Record was prepared by me or under my direction in conformance with he Land Surveyors' Act on 8 11 1998 Ingreed LS or REE Number No. 8001 COUNTY SURVEYOR'S STATEMENT This Comer Record was received 9/23 19 2 and examined Indifiled October 27th 19 28 Ingreed LS or REE Number DEPUTY COUNTY SURVEYOR No. 8803 Rep 9/3000 Rep	City of IKUINE			
Coverment Comer Control N E Control Control Control N E Control Control Control Control E Control	Brief Legal Description PARCEL 13, PM	83-613, PMB 1	188 28-33, RE	cords of or.co
SURVEYOR'S STATEMENT Surveyors' Act on	Government Corner Meander Rancho	☐ Control ☐ ☐ Property ☑ ☐ Other ☐	N E Zone	(Optional) Datum
SURVEYOR'S STATEMENT This Corner Record was prepared by me or under my direction in conformance with the Land Surveyors' Act on				
COUNTY SURVEYOR'S STATEMENT This Corner Record was received 9/23 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 19/28 1	AS SHOWN ON PAGE 2 0	F 2 ,		
COUNTY SURVEYOR'S STATEMENT This Corner Record was received 9/23 19/28 and examined and filed October 27th 19/98 Signed Bell Jelling No 6803 Exp 9/30/00 Control of the country surveyor Title DEPUTY COUNTY SURVEYOR	SURVEYOR'S STATEM	IENT		SONAL LAND SURE
COUNTY SURVEYOR'S STATEMENT This Corner Record was received 9/23 19 28 and examined and filed October 27th 19 98 Signed Abbert Jelines Title DEPUTY COUNTY SURVEYOR Title DEPUTY COUNTY SURVEYOR			ance with	No. 2-30-01
COUNTY SURVEYOR'S STATEMENT This Corner Record was received 9/23 19/28 and examined and filed October 27th 19/28 Signed Library Title DEPUTY COUNTY SURVEYOR Title DEPUTY COUNTY SURVEYOR	Signed LS or ==	E Number	· · · · · · · · · · · · · · · · · · ·	OF CALIFORNIA
County Surveyor's Comment	This Corner Record was received $\frac{9/2}{274h}$	<u>319LS</u> nd		SONAL LAND.
				TROE STITE ORIVIN
				OF CALIFORN



RECORD OF SURVEY NO. 2008–1045 IN THE INCORPORATED CITY OF SAN CLEMENTE AND THE UNINCORPORATED TERRITORY OF THE COUNTY OF ORANGE AND EXTENDING INTO THE UNINCORPORATED TERRITORY OF THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA.

ACCEPTED AND FILED AT THE REQUEST OF THE ORANGE COUNTY SKREYOR

DATE OCTOBER 1D, 2008

TIME 2:56 FM FEE \$ 40.00

ING 2:56 FM FEE \$ 40.00

PAGE 13-24 FG

COUNTY CLEPK-RECORDER

BY

DEPUTY

DATE OF SURVEY: NOVEMBER, 2006

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS ACT, AT THE REQUEST OF THE GRANCE COUNTY TRANSPORTATION AUTHORITY, IN NOVEMBER, 2006.

VALID THROUGH: JUNE 30, 2009



STATEMENT OF PURPOSE

THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL TO SUPPORT THE TRANSPORTATION CORRIDOR ACENCY'S FOOTHILL TRANSPORTATION CORRIDOR - SOUTH PROJECT, IN THE CITY OF SAN CLEMENTE AND IN THE UNINCOMP

ACCURACY STATEMENT

HORIZONTAL COORDINATES AS SHOWN HEREON MEET THE REQUIREMENTS OF THE CALLFORNIA COORDINATE SYSTEM, PAUL IC RESOURCES CODE 8601-8819, INALIDING AM ACCURACY LEVEL OF 2 CHININETERS (0.06 FEET) CIRCULAR FORM PROBBLE ACCORDING TO THE FEDERAL GEOGRAPHIC DATA COMMITTEE "GEOSPATIAL POSITIONING ACCURACY STANDARD, PART 2, GEOCHTIC CONTROL NETHORNS", FEDO-STID-ON-2-1986.

ELEVATIONS AS SHOWN HEREON ARE DERIVED CALIFORNIA ORTHOWETRIC HEIGHTS OF 1988 IN ACCORDANCE WITH OWNERS 5 OF THE CALIFORNIA PUBLIC RESOURCES CODE. THE VALUES STATED HEREON ARE WITHIN 1.5 CENTIMETERS (0.05 FEET) (AT THE 95% CONFIDENCE LEVEL) RELATIVE TO THE LOCAL MANOBS DATAM.

A REPORT IS ON FILE WITH THE ORANGE COUNTY TRANSPORTATION AUTHORITY DOCUMENTING THE GEODETIC CONTROL SURVEYING FOR THIS PROJECT IN ACCORDANCE WITH SECTION 8876 OF THE PUBLIC RESOURCES CODE. A PARTIAL STATEMENT FROM SAID REPORT FOLLOWS:

ENCERPTS FROM THE PROJECT SUMMARY REPORT FRIMARY AND SECONDARY CONTROL SURVEYS FOOTHILL TRANSPORTATION CORRIDOR SOUTH, PHASE 1C

CONTROL NETWORK OBSERVATIONS:

THE SUBJECT GEODETIC CONTROL NETWORK MAS ASSEMBLED FROM GP'S CHRITER-PHASE GESERVATIONS REDUCED TO 2,169 GEODETIC VECTORS (DELTA X, Y & Z, PLUS COVARIANCE MATRIX). A SUSSET OF GEODETIC VECTORS MAS INCLUDED FROM GP'S SLRVEY WORK PREVIOUSLY COMPLETED FOR THIS PROJECT IN 1999. ALL POINTS IN THE NETWORK BERE OFSERVED A MINIMAD OF THO THESE, BITH INDEPONENTI GESTRATIONS SEPRATED BY AT LEAST ONE HOLD FOR REDUNDANT SATELLITE GEOMETRY. CARRIER-PHASE DATA MAS ANALYZED AND PROCESSED IN TRIBLE GEOMETICS OFTICE SETTIAGE, VERSION 1.61, AND THE GEODETIC NETWORK ASSEMBLED IN STARWET PRO, VERSION 6.0.29.

LEAST SQUARES ADJUSTMENT

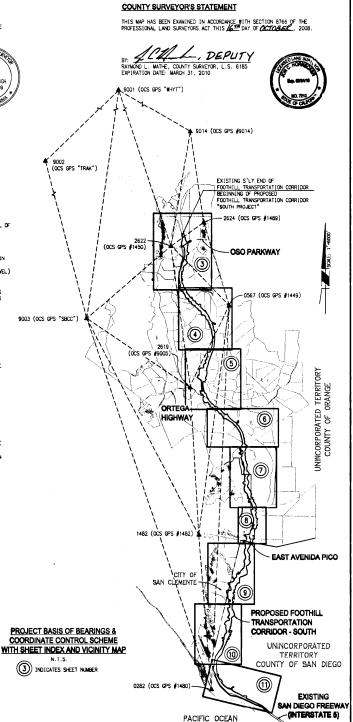
A MINIMALLY-CONSTRAINED ADJUSTMENT WAS RUN TO QUALITY CONTROL CHECK THE PROCESSED DATA AND ESTABLISH A WEIGHTIMS SO-CHE FOR THE OSSERVATION DATA. THE WINIMALLY-CONSTRAINED ADJUSTMENT HAD A VASHINGC OF FURLY MEGHT OF 1.14 WITH THE AMERICAE VECTOR RESIDUAL OF 8 MM (0.0) FEET). VECTOR RESIGNING, OF STABLISHED WITH FIXED CONTRIBUTION AND HEIGHT BEARD ESTAINATES (A-PROCE) SET TO 3 MM AND 5 MM RESPECTIVELY, AND A SCALE OF 4.0 APPLIED TO THE VECTOR COVARIANCES.

A LISTING OF THE LOCAL HORIZONTAL AND VERTICAL CONTROL HELD FIXED IN THE OVER-CONSTRAINED ADJUSTMENT IS INCLUDED IN THE BASIS OF COORDINATES AND BENCHARK STATEMENT NOTES HEREON (SEE SHEET 2).

THE OVER-CONSTRAINED NETWORK HAD A VARIANCE OF UNIT WEIGHT OF 1.66 WITH THE AVERAGE VECTOR RESIDIAL OF 11 MR (0.04 FEET). THE FINAL NETWORK ADJUSTMENT ROLLOES STATEMENT AND VERTICAL SET DRESS OF MICH ARE RELIESED HEROW) WITH HORIZONTAL CONFIDENCE OF 1.2 ON (0.04 FEET) AND VERTICAL CONFIDENCE OF 1.6 ON (0.05 FEET) AT THE 95X CONFIDENCE LEVEL.

MONUMENT NOTES:

- ▲ DENOTES FOUND C.C.S. GPS CONTROL MONUMENT AS DESCRIBED HEREON (SEE SHEETS 2 AND 12).
- - DENOTES FOUND MONUMENT AS DESCRIBED HEREON (SEE SHEET 12)
- O DENOTES SET MONUMENT AS DESCRIBED HEREON (SEE SHEET 12).



230

10-104460

SHEET 2 OF 12 SHEETS

RECORD OF SURVEY NO. 2008-1045

IN THE INCORPORATED CITY OF SAN CLEMENTE AND THE UNINCORPORATED TERRITORY OF THE COUNTY OF ORANGE AND EXTENDING INTO THE UNINCORPORATED TERRITORY OF THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA.

DATE OF SURVEY: NOVEMBER, 2006

BASIS OF COORDINATES

COORDINATES SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM (CCS83) ZONE VI. 1983 NAD. (1991.35 EPOCH ADJUSTMENT).
BASED LOCALLY UPON THE FOLLONING COUNTY OF GRANGE CONTROL STATIONS AS PUBLISHED BY THE COUNTY OF GRANGE:

SHEET NO.	STATION NO.	NAME	NORTHING (FT)	EASTING (FT)	COMPUTED ELLIPSE HEIGHT (FT)	COMBINATION FACTOR (C.F.)	DESCRIPTION
11	0282	GPS 1480 V-282	2086774.054	6151707.561	-99.170	0.99995931	O.C.S. GPS # 1480 - FOUND 3 3/4" USC # GS BRASS BENCHMARK DISK STAMPED "V-282" IN TOP OF CONC. PIER FOR RAILROAD BRIDGE PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
4	0567	GPS 1449 M567	2149907.876	6154651.994	312.696	0.99994692	O.C.S. GPS # 1449 - FOUND 3 3/4" USCNGS BRASS DISK STAMPED "M-567 1939" IN TOP OF CONC. POST, FLUSH PER R.S. NO. 95-1066, R.S.B. 154/8-18.
1	1482	GPS 1482 3Y-38-91	2112181.904	6149721.339	139.019	0.99994975	O.C.S. GPS # 1482 - FOUND 3 3/4" D.C.S. ALUM, BENCHMARK DISK STAMPED "3Y-38-91" IN TOP OF CONC. CATCH BASIN PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
5	2619	GPS 9005 3W-49-79	2136384.582	6148373.920	218.100	0.99994910	O.C.S. GPS # 9005 - FOUND 3 3/4" O.C.S. ALUN, BENCHMARK DISK STAMPED "3W-49-79" IN TOP OF CONC. POST , FLUSH, PER R.S. NO. 92-1035, R.S.B. 151/1-11.
3	2622	GPS 1450 3EE-24-91	2159727.357	6145251.974	644.808	0.99993299	O.C.S. GPS # 1450 - FOUND 3 3/4" D.C.S. ALUM. BENCHMARK DISK STAMPED "3EE-24-91" IN TOP OF CONC. HEADWALL PER R.S. NO. 95-1066, R.S.B. 154/8-18.
3	2624	CPS 1489 3EE-14-72	2163578.458	6150554.359	73 8.883	0.99992930	O.C.S. GPS # 1489 - FOUND 3 3/4" O.C.S. ALUM. BENCHMARK DISK STAMPED "3EE-14-72" IN TOP OF 0.5' X 0.5' CONC. POST, FLUSH, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
1	9001	CGPS WHYT	2191879.593	6137737.003	873.253	0.99992997	O.C.S.CONTINUOUS GPS STATION "WHYT" AT GEODETIC REFERENCE MARK 8mm BELOW BASE OF ANTENNA PRE-AMP, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
1	9002	CGPS TRAK	2171989.938	6088763.429	381.613	0.99994813	O.C.S.CONTINUOUS GPS STATION "TRAK" AT GEODETIC REFERENCE MARK 8mm BELOW BASE OF ANTENNA PRE-AMP, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
1	9003	CGPS SBCC	2147749.084	6131653.964	293.441	0.99994739	O.C.S.CONTINUOUS GPS STATION "SBCC" AT GEODETIC REFERENCE MARK Brim BELOW BASE OF ANTENNA PRE-AMP, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
1	9014	GPS 9014 3PP-24-89	2178546.660	6148392.290 .	801.593	0.99992983	O.C.S. GPS # 9014 - FOUND 3 3/4" O.C.S. ALUN. BENCHMARK DISK STAMPED "3PP-24-89" IN TOP OF CONC. CATCH BASIN PER R.S. NO. 92-1035, R.S.B. 151/1-11.

STATE PLANE COORDINATES ARE SHOWN IN TERMS OF US SURVEY FEET (ONE FOOT * 12/39.37 METERS).

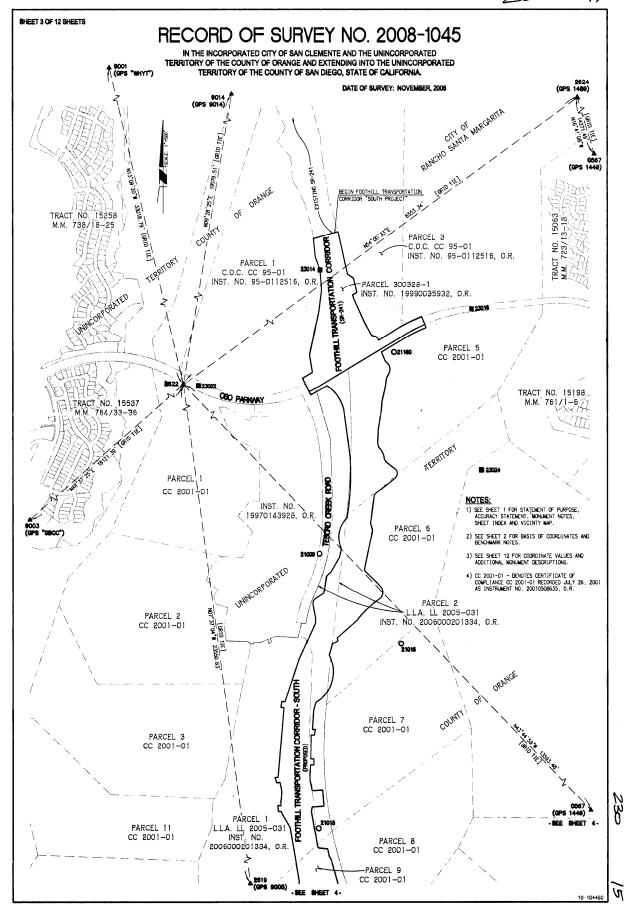
BENCHMARK NOTES

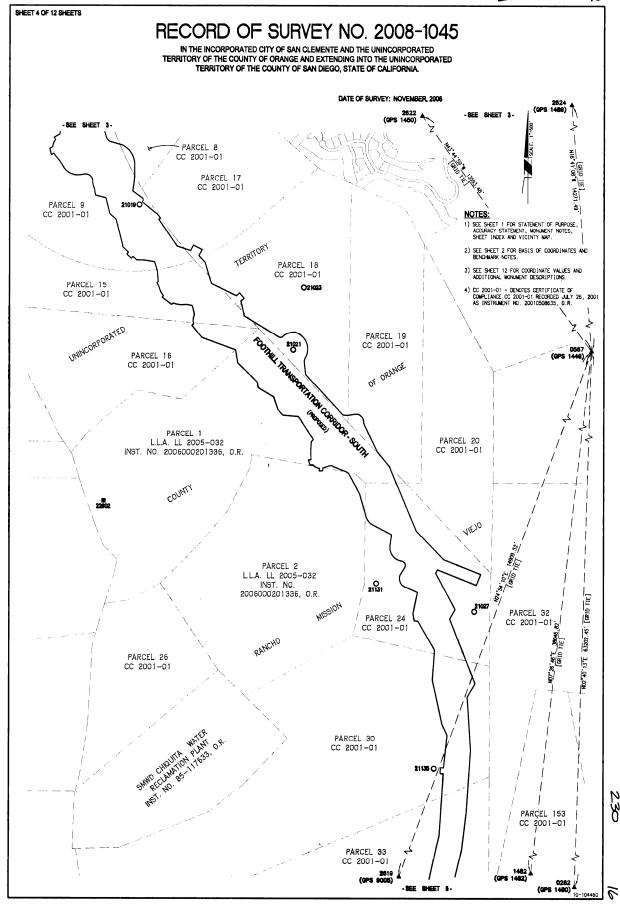
ELEVATIONS SHOWN HEREON ARE IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED LOCALLY UPON THE FOLLOWING COUNTY OF ORANGE BENCHMARKS (O.C.S. 1995 ADJUSTMENT):

SHEET NO.	STATION NO.	NAME	ELEVATION (FT)	YEAR LEVELED	DESCRIPTION
11	0282	GPS 1480 V-282	14.79	1988	O.C.S. GPS # 1480 - SEE ABOVE FOR MONUMENT DESCRIPTION.
4	0567	GPS 1449 M567	424.40	1990	O.C.S. GPS # 1449 - SEE ABOVE FOR MONUMENT DESCRIPTION.
1	1482	GPS 1482 3Y-38-91	252.20	2005	O.C.S. GPS # 1482 - SEE ABOVE FOR MONUMENT DESCRIPTION.
5	2612	GPS 3W-30-72	357.38	1990	FOUND 3 3/4" O.C.S. ALUM, BENCHMARK DISK STAMPED "3H-30-72" IN TOP OF 0.5' X 0.5' CONC. POST, UP 0.2', PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
5	2619	GPS 9005 3W-49-79	330.56	1990	O.C.S. GPS # 9005 - SEE ABOVE FOR MONUMENT DESCRIPTION.
3	2622	GPS 1450 3EE-24-91	756.04	1992	O.C.S. GPS # 1450 - SEE ABOVE FOR MONUMENT DESCRIPTION.
3	2624	GPS 1489 3EE-14-72	850.35	1992	O.C.S. GPS # 1489 - SEE ABOVE FOR MONUMENT DESCRIPTION.
1	9001	CGPS WHYT	984.40		O.C.S.CONTINUOUS GPS STATION "WHYT" (SEE DESCRIPTION ABOVE)
1	9002	CGPS TRAK	495.31		O.C.S.CONTINUOUS GPS STATION "TRAK" (SEE DESCRIPTION ABOVE)
1	9014	GPS 9014 3PP-24-89	912.62	1989	O.C.S. GPS # 9014 - SEE ABOVE FOR MONUMENT DESCRIPTION.
	N/A	GPS 3H-4-77	719.41	1992	FOUND 3 3/4" O.C.S. ALUM. BENCHMARK DISK STAMPED "31I-4-77" IN TOP OF 0.5' X 0.5' CONC. POST, UP 0.3', PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

NOTES:

- SEE SHEET 1 FOR STATEMENT OF PURPOSE, ACCURACY STATEMENT, MONUMENT NOTES, SHEET INDEX AND VICINITY MAP.
- 2) SEE SHEET 12 FOR COORDINATE VALUES AND ADDITIONAL MONUMENT DESCRIPTIONS.





RECORD OF SURVEY NO. 2008–1045

IN THE INCORPORATED CITY OF SAN CLEMENTE AND THE UNINCORPORATED TERRITORY OF THE COUNTY OF ORANGE AND EXTENDING INTO THE UNINCORPORATED TERRITORY OF THE COUNTY OF SAN DIEGO, STATE OF CALLE DATE OF SURVEY: NOVEMBER, 2006

	NO.	(FT.)	[(FT.)	ELEVATION (FT.)	FACTOR	DESCRIPTION
6	10209	2129519.47	6154857.37		0.99994479	FOUND 3" BRASS DISK STAMPED "SOUTHERN CALIFORNIA EDISON COMPANY P.I. VI", DOWN O.8" IN DIRT, NO REFERENCE.
9	10210	2109801.33	6156296.27		0.99994953	FOUND 3" BRASS DISK STAMPED "SOUTHERN CALIFORNIA EDISON COMPANY L.S. 2827", PER.S. NO. 7033 FILED IN RECORD OF SURVEY MAPS, RECORDS OF SAN DIEGO CO., DOWN OF
9	10211	2108656.37	6156176.97		0.99994724	FOUND 1" IRON PIPE WITH CAP STAMPED "TO HS USA", NO REFERENCE, DOWN 0.6'
9	10212	2107440.94	6156050.32		0.99994076	FOUND 1" IRON PIPE WITH CAP, NO STAMP, PER R.S. NO. 7033 FILED IN RECORD OF SURVEY MAPS, RECORDS OF SAN DIEGO COUNTY, DOWN 0.3'.
9	10213	2106203.47	6155921.38		0.99993690	FOUND 1" IRON PIPE WITH CAP STAMPED "USA TO HA", NO REFERENCE, DOWN 0.4'.
9	10216	2103278.57	6155616.61		0.99994613	FOUND 3" BRASS DISK STAMPED "SOUTHERN CALIFORNIA EDISON COMPANY L.S. 2827", PER.S. NO. 7033 FILED IN RECORD OF SURVEY MAPS, RECORDS OF SAN DIEGO CO., FLUSH.
10	10222	2097797.51	6155045.50		0.99994490	FOUND 2" IRON PIPE WITH 2 1/2" BRASS DISK STAMPED "SCEC L.S. 2827", NO REFERENCE FLUSH.
10	10223	2097194.90	6154982.71		0.99994677	FOUND 2" IRON PIPE WITH 2 1/2" BRASS DISK STAMPED "SCEC L.S. 2827" PER R.S. NO. 7033 FILED IN RECORD OF SURVEY MAPS, RECORDS OF SAN DIEGO CO., FLUSH.
9	10228	2104202.85	6154781.35		0.99993028	FOUND 2" IRON PIPE WITH NAIL AND TAG STAMPED "R.C.E. 14488", PER TRACT NO. 12127 M.M. 550/43-48, DOWN 0.11.
11	20037	2087411.47	6150834.42		0.99995869	O.C.S. GPS #0037-FOUND 0.5' X 0.5' CONC. MONUMENT WITH 2 1/2" PUNCHED BRASS DISK STAMPED "RM-2", UP 0.2', PER R.S. NO. 92-1120, R.S.B. 158/34-3B.
9	20577	2111063.50	6157050.00		0.99994357	D.C.S. GPS #R577-FOUND 1 1/2" O.C.S. BRASS TAG STAMPED "DUKE 2/93" IN 1.0' DIA/ CONC. COLLAR, FLUSH, PER R.S. NO. 92-1120, R.S.B. 158/34-38.
9	20578	2104188.91	6154778.73	-	0.99993028	O.C.S. GPS #R578-FOUND 2" IRON PIPE FILLED WITH CONC. WITH 1/2" DIA. HOLE IN CENTER 3" DEEP, UP 0.8', PER R.S. NO. 92-1120, R.S.B. 158/34-38.
9	20579	2102991.93	6154493.82		0.99992949	O.C.S. GPS (R579-FOUND 1 1/2" IRON PIPE WITH 2 1/2" BRASS DISK STAMPED "RANCHO SANTA MARGARITA, LINE ORANGE COUNTY, RE 4231, RE2831", UP 1.5', PER R.S. NO. 92-1120, R.S.B. 158/34-38.
10	20580	2094773.33	6152564.66		0.99994230	O.C.S. GPS #R580-FOUND 2" IRON PIPE, CAP BROKEN OFF, PER R.S. NO. 92-1120, R.S.B. 158/34-38, UP 1.0'.
3	21009 21015	2157448.29 2153764.22	6147081.30 6147065.12	633.69 657.59	0.99993838 0.99993650	SET MAG. NAIL & WASHER STAMPED "RBF CP", FLUSH IN AC SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH.
3	21016	2156244.00	6148180.85	839.43	0.99992829	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH.
4	21019 21021	2151850.91 2149906.08	6147852.37 6149225.37	581.06 604.01	0.99993979 0.99993832	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH.
4	21023	2150741.77	6150067.74	678.12	0.99993493	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH, SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH,
4 5	21027 21033	2146386.49 2138371.55	6152367.80 6149342.69	433.30 293.42	0.99994585	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
5	21036	2139006.71	6151796.08	438.73	0.99995118 0.99994433	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
5	21041	2133482.00	6150011.71	700.99	0.99993093	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
5	21042	2134897.46 2133066.28	6152149.56 6152974.54	233.01 313.13	0.99995353 0.99994942	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
6	21048	2131404.19	6151658.91	652.46	0.99993294	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
6	21049	2129852.32	6153785.31	400.25	0.99994479	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
7	21050 21055	2128588.51 2121388.58	6158083.87 6156985.95	588.49 704.51	0.99993560 0.99992912	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
7	21056	2122980.11	6156647.88	574.41	0.99993554	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
7	21058	2119232.94 2119920.50	6156437.15 6158700.36	834.25	0.99992265	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
7	21059 21062	2125150.82	6157176.67	584.07 603.10	0.99993470 0.99993444	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
6	21065	2127151.03	6156019.10	579.23	0.99995385	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
7 1	21067 21068	2117709.03 2116369.62	6157722.44 6158157.82	715.34 620.61	0.99992817 0.99993255	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
8	21071	2115204.05	6157908.17	343.97	0.99994566	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
8 8	21073 21075	2114407.14 2110654.84	6160156.01 6158895.86	304.72 212.45	0.99994745 0.99995149	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
10	21101	2095543.46	6153966.71	174.72	0.99995210	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
10	21104 21108	2093513.56	6152235.02	206.85 29.70	0.99995044 0.99995877	SET MAG. NAIL & WASHER STAMPED " CP", FLUSH IN AC
8	21116	2112069.04	6153785,76 6158679.69			SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. FOUND O.C.S. WELL MONUMENT WITH HEX BAR, PER TRACT NO. 13899, M.M. 837/9-11,
	21118	2112069.04	6159028.00	236.89	0.99995046	DOWN 1.6'.
6	21129	2131602.90	6156295.80	227.69 339.76	0.99995100 0.99994793	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
4	21131	2146763.99	6151046.17	580.62	0.99993887	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
-5-	21134	2141112.05 2144281.05	6150831.90 6151827.38	433.44 441.37	0.99994493 0.99994509	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH.
3	21160	2160166.44	6148087.15	723.81	0.99993463	SET 1"IRON PIPE WITH TACK AND PLASTIC PLUG STAMPED " CP", FLUSH.
11	21197 21218	2088625.96 2086557. 7 5	6153678.08 6156001.02	24.63 104.76	0.99995891 0.99995498	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET MAG, NAIL & WASHER STAMPED " CP", FLUSH IN AC
11	21227	2084325.57	6157855.06	16.44	0.99995498	SET MAG. NAIL & WASHER STAMPED " CP", FLUSH IN AC
11	21234	2084899.61	6159370.21	35.79	0.99995821	SET MAG. NAIL & WASHER STAMPED " CP", FLUSH IN AC
4	21240 22602	2082977.51 2147868.68	6160389.78 6147377.70	94.10	0.99995535	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. FOUND 3 3/4" O.C.S. ALUM. DISK STAMPED "OCS 4-1-21-7-7 MAR 12 71", FLUSH IN
3	23014	2161268.19	6147093.39	713.29	0.99993536	CONC., PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR. FOUND ALUM. ROD WITH 1 1/2" ALUM. CAP STAMPED "F.T.C. L.S. 4965 ", FLUSH, PER NO 90-1115, P.S. 175/27-15.
3	23016	2160749.92	6149131.24	801.45	0.99993104	R.S. NO. 99-1015, R.S.B. 175/27-35. FOUND O.C.S. WELL MONUMENT WITH 2" IRON PIPE TAGGED "L.S. 4965" IN CONC., DOWN 1.5", PER R.S. NO. 96-1003, R.S.B. 154/23-26.
3	23022	2159707.06	6145456.15	754.91	0.99993304	FOUND O.C.S. WELL MONUMENT WITH 2" IRON PIPE TAGGED "L.S. 4965" IN CONC., DOWN 1.5", PER R.S. NO. 96-1003, R.S.B. 154/23-26.
3	23024	2158575.83	6149262.52	946.62	0.99992364	O.C.S. GPS #0072-FOUND 3 3/4" ALUM. DISK STAMPED "OCS 7-7-10", FLUSH IN CONC. PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.
11	23112	2088418.63	6152633.48	33.81	0.99995846	FOUND 1" IRON PIPE WITH TAG STAMPED "DIV HIWAY", PER CALIF. DEPT. OF TRANS. MONUMENTATION MAP FOR ROUTE 11-SD-5, SHT. 35 OF 37 (DATED 9/1976), FLUSH.
11	23124	2090789.57	6151704.22	108.85	0.99995499	FOUND 1" IRON PIPE WITH NAIL & PLASTIC PLUG STAMPED "CALIF DOT" PER CALIF. DEPT TRANS. MONUMENTATION MAP FOR ROUTE 11-SD-5, SHT. 37 OF 37, (DATED 8/1976), FL
11	23142	2087034.86	6154212.42	35.54	0.99995831	FOUND 1" IRON PIPE WITH TAG STAMPED "DIV HIWAY", PER CALIF. DEPT. OF TRANS. MONUMENTATION MAP FOR ROUTE 11-SD-5, SHT. 35 OF 37 (DATED 9/1976), FLUSH.
11	23146	2085966.99	6156418.64	96.71	0.99995534	FOUND 1" IRON PIPE WITH TAG STAMPED "DIV HIWAY", PER CALIF. DEPT. OF TRANS. MONUMENTATION MAP FOR ROUTE 11-SD-5, SHT. 36 OF 37 (DATED 9/1976), FLUSH.
10 10	23885 23889	2100956.10 2100053.04	6155384.28 6155205.38	419.36 353.80	0.99994076	SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. SET 1"IRON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH.
10	23889 23890	2098371.22	6155205.38 6155080.81 6154313.36	353.89 303.35	0.99994383 0.88884613	SET 1 "RON PIPE WITH PUNCHED PLASTIC PLUG STAMPED " CP", FLUSH. FOUND 1" IRON PIPE WITH NAIL & CAP STAMPED "ST HAM USA", NO REFERENCE, FLUSH. O.C.S. GPS # 9000 - FOUND 4" IRON PIPE WITH 3 1/4" BRASS DISK STAMPED "MEDIO
11	23998	2085641.30		69.51	0.99995665	

RECORD OF SURVEY 2004-1165

IN THE CITY OF NEWPORT BEACH, COUNTY OF ORANGE, STATE OF CALIFORNIA

BEING A SURVEY OF LOT 19, BLOCK 28 OF FIRST ADDITION TO NEWPORT HEIGHTS, PER MAP RECORDED IN BOOK 4, PAGE 94 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID ORANGE COUNTY, CALIFORNIA. DATE OF SURVEY AUGUST, 2004

ACCEPTED AND FILED AT THE REQUEST OF THE ORANGE COUNTY SURVEYOR
DATE 00 WWW 1 1, 2004
TIME 8: 30 PM FEE\$ 7.00
INSTRUMENT 2004000 337200
BOOK 201 PAGE 39 15

TOM DALY

Namue a.

SUPERVES STATEMENT:
THIS MAP CORRECTLY PROPRESENTS A SURVEY MADE BY ME
OR LUNDER MY DIRECTION IN CONFORMANCE WITH THE
REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT
AT THE REQUEST OF CYNTHIA CHILDS IN AUGUST, 2004.

REGISTRATION EXPIRES 12/31/04/



STATEMENT OF PURPOSE.
THE PURPOSE OF THIS SURVEY IS TO RE-ESTABUSH AND MONUME!
THE PROPERTY LINES OF LOT 19, BLOCK 28 OF FIRST ADDITION TO
NEWPORT HEIGHTS PER MAP FILED IN BOOK 4, PAGE 94 OF

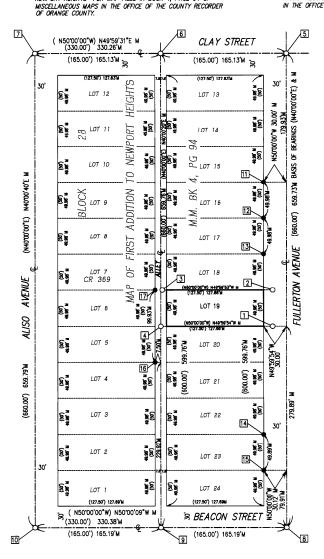
COUNTY SURVEYOR'S STATEMENT.
THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE PROFESSIONAL LAND SURVEYOR'S ACT THIS SECTION 8766.

RAYMOND L. MATHE COUNTY SURVEYOR

RAY WOND L. MATHE, COUNTY SURVEYOR L.S. 6185, EXPIRATION DATE: 03/31/06



BASSO OF BEARMAND.
BEARING SHOWN HEREON ARE BASED ON THE CENTERLINE OF FULLERTON AVENUE BEING NORTH 40'00'00' EAST AS SHOWN ON A MAP RECORDED IN BOOK 4. PAGE 34 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF GRANGE COUNTY.



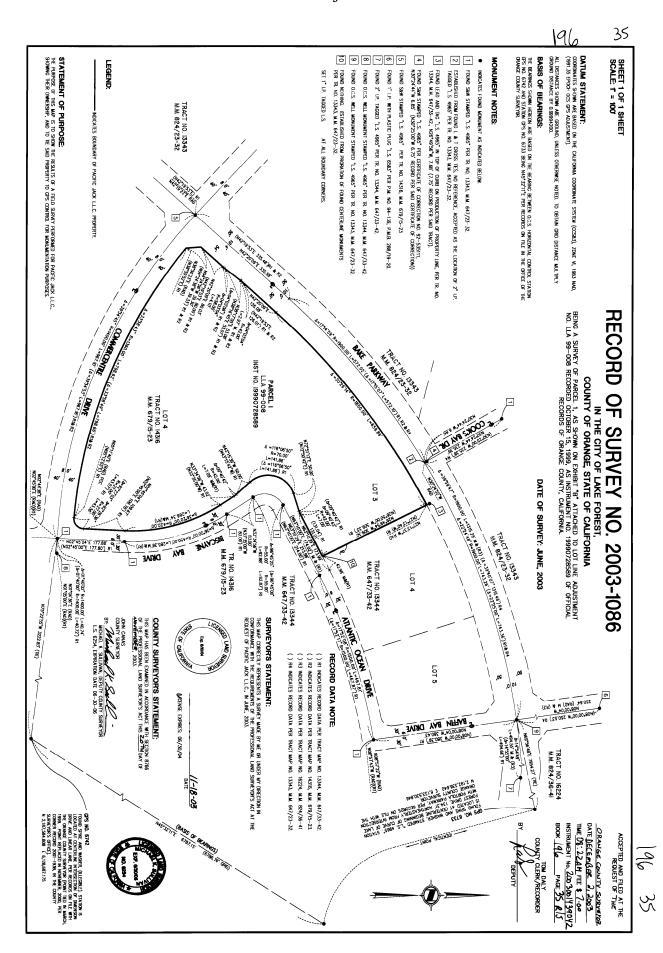


SCALE 1"=50"

MONUMENT NOTES:

1

-) INDICATES RECORD DATA PER FIRST ADDITION TO NEWPORT HEIGHTS, M.M.4/94. INDICATES MEASURED DATA.
- INDICATES FOUND MONUMENT AS NOTED
- INDICATES SET MONUMENT AS NOTED 0
- 2
- 3
- 4 SET LEAD, TACK & TAG L.S. ON 7.50' OFFSET (PL PROD).
- 5 FOUND NAIL DN. .02' NO REF., CHECKED CITY TIES BK I, PG 42. REPLACED WITH S&W L.S. (FLUSH).
- 6 FOUND NOTHING, FALLS ON S.S. MH, ESTABLISHED BY PROPORTION. SET (4) S&W L.S. 2' TIES (FLUSH).
- 7 FOUND NAIL DN. .02' NO REF.. CHECKED CITY TIES BK I, PG 42. REPLACED WITH S&W L.S. (FLUSH).
- 8 FOUND NAIL DN. .02' PER CR 369, CHECKED CITY TIES BK I, PG 38 REPLACED WITH S&W L.S. (FLUSH).
- 9
- 10 FOUND NAIL DN. .02' PER CR 369, CHECKED CITY TIES BK I, PG 38 REPLACED WITH S&W L.S. (FLUSH).
- 11 FOUND 1" IP NO TAG NO REF. (FLUSH), ACCEPTED AS PROPERTY CORNER LOTS 15&16.
- FOUND 1" IP & TAG L.S. 2681 NO REF. (FLUSH), ACCEPTED AS PROPERTY CORNER LOTS 16&17. 12
- 13 FOUND 1" IP NO TAG NO REF. (FLUSH), ACCEPTED AS PROPERTY CORNER LOTS 17&18.
- 14 FOUND 1" IP NO TAG NO REF. (FLUSH), \$55'36'23"W 0.16"
- 15 FOUND 1" IP NO TAG NO REF. (FLUSH), N76"21'27"W 0.14'
- FOUND 1" IP NO TAG NO REF. (FLUSH), ACCEPTED AS PROPERTY CORNER LOTS 4&5. 16
- 17 FOUND 1" IP NO TAG NO REF. (FLUSH), SO4'05'07"W 0.05'



SHEET 1 OF 1 SHEET SCALE: 1" = 50"

RECORD OF SURVEY NO. 2007-1185

IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF ORANGE, STATE OF CALIFORNIA

BEING A SURVEY OF LOTS 9, 10, 11, 12 AND 13 OF TRACT NO. 16473 AS SHOWN ON A MAP FILED IN BOOK 862, PAGES 11 THROUGH 20, INCLUSIVE, OF MISCELLANEOUS MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, SAID SURVEY REFLECTING LOT LINE CHANGES TO SAID LOTS PER LOT LINE ADJUSTMENT NO. SLL 2006-024 RECORDED AS INSTRUMENT NO 2006000583478 AND LL 2008-025 RECORDED AS INSTRUMENT NO. 2006000583480, BOTH OF OFFICIAL RECORDS OF SAID COUNTY.

DATE OF SURVEY: MAY, 2007

ACCEPTED AND FILED AT THE REQUEST OF THE ORANGE COUNTY SURVEYOR

DATE October 19, 2007 TIME 09:37 AM FEE \$ 7.00 INSTRUMENT No. 2007000640/05 PAGE 10 8/5

TOM DALY COUNTY CLERK/RECORDER

NOTES:

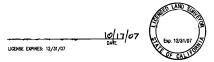
- INDICATES NEW PARCEL LINE.
- INDICATES EXISTING LOT LINES TO REMAIN

ALL DISTANCES ARE MEASURED AND RECORD PER LOT LINE ADJUSTMENT NO.'S LL 2006-024 RECORDED AS INSTRUMENT NO. 200600068478 AND LL 2006-025 RECORDED AS INSTRUMENT NO. 2006000684480 BOTH OF GOFFICIAL RECORDS AND TRACT MAY DO. 18473, MM. 882/11-20 AS CORRECTED BY CERTIFICATE OF CORRECTION RECORDED AS INSTRUMENT NO. 2007000232523 OF OFFICIAL RECORDS.

- ↑ INDICATES SET NAIL & TAG LS. PER LLA. NO. LL 2008-024, INST. NO. 2008000583478, O.R.
 ↑ INDICATES SET NAIL & TAG LS. PER LLA. NO. LL 2008-025, INST. NO. 2008000583480, O.R.
- INDICATES SET LEAD, TACK & TAG LS. AT A 16.75' OFFSET FROM THE TRUE CORNER ON THE LOT UNE PRODUCED PER LLA. NO. LL 2006-024, INST. NO. 2006000583478, O.R.
- INDICATES SET LEAD, TACK & TAG L.S. AT A 16.50' OFFSET FROM THE TRUE CORNER ON THE LOT LINE PRODUCED PER LL.A. NO. LL. 2006-024, INST. NO. 2006000563476, O.R.
- 10.50 INDICATES SET LEAD, TACK & TAG L.S. AT A 10.50 OFFSET FROM THE TRUE CORNER ON THE LOT UNE PRODUCED PER LLA. NO. LL 2006-025, INST. NO. 2006000583480, O.R.
- (h) INDICATES SET LEAD, TACK & TAG LS. AT A 10.75' OFFSET FROM THE TRUE CORNER ON THE LOT UNE PRODUCED PER LLA. NO. LL 2008-025, INST. NO. 2008000583480, O.R.
- MOICATES SET LEAD, TACK & TAG LS. AT A 10.75' OFFSET FROM THE TRUE CORNER ON THE LOT LINE PRODUCED IN LIEU OF LOT CORNER AS NOTED ON TRACT NO. 16473, MM. 862/11-20 AS CORRECTED BY CERTIFICATE OF CORNECTION RECORDED AS INSTRUMENT NO. 200700023233 OF OFFICIAL RECORDS.
- INDICATES 1" I.P. TAGGED L.S. 8217 OR SAWN STAMPED L.S. 8217 OR LEAD, TACK & TAG L.S. 6217 TO BE SET PER TRACT NO. 18473 M.M. 862/11-20. THESE WILL NOT BE SET.
- INDICATES FD. NAIL & TAG LS. 8217 PER TRACT NO. 16471, M.M. 861/42-49. INDICATES FD. 1" I.P. TAGGED L.S. 6217 PER TRACT NO. 16473, M.M. 862/11-20.
- INDICATES FD. NAIL & TAG L.S. 8654 PER TRACT NO. 16473, M.M. 862/11-20 AS CORRECTED BY CERTIFICATE OF CORRECTION RECORDED AS INSTRUMENT NO. 2007000232523 OF OFFICIAL RECORDS.
- INDICATES FOUND 2 1/2" IRON PIPE W/2" OCS BRASS CAP STAMPED "GPS 1448 9-95" PER TRACT NO. 16203, M.M. 826/8-20 AND RECORDS ON PILE IN THE ORANGE COUNTY SURVEYORS OFFICE. N21479/00.018, E8142602.0565

SURVEYOR'S STATEMENT:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR LINDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF CENTEX HOMES, IN MAY, 2007.



COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8786 OF THE PROFESSI ACT THIS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8786 OF THE PROFESSI ACT THIS DAY OF OCTOBER, 2007.





BASIS OF BEARINGS:

THE ELERING SHOWN HEREON ARE BASED ON THE BEARING BETWEEN Q.C.S. HORZONTAL CONTROL STATION GPS NO. 1447, AND STATION GPS NO. 1448, BEING NORTH 10"46"13" EAST PER RECORDS ON PLE IN THE OFFICE OF THE ORANG COUNTY SARKENDE

DATUM STATEMENT:

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS 83), ZONE VI, 1983 NAD (1991.35 EPOCH OCS OPS ADJUSTIENT). ALL DISTANTANCES ARE GROUND DISTANCES WILLESS OTHERWISE NOTED. TO OBTAIN GOND DISTANCE MULTIPLY GROUND DISTANCE BY OARDSPACET-SPECIAL PROJECT-SPECIAL DISTANCES WILLESS OTHERWISE NOTED.



