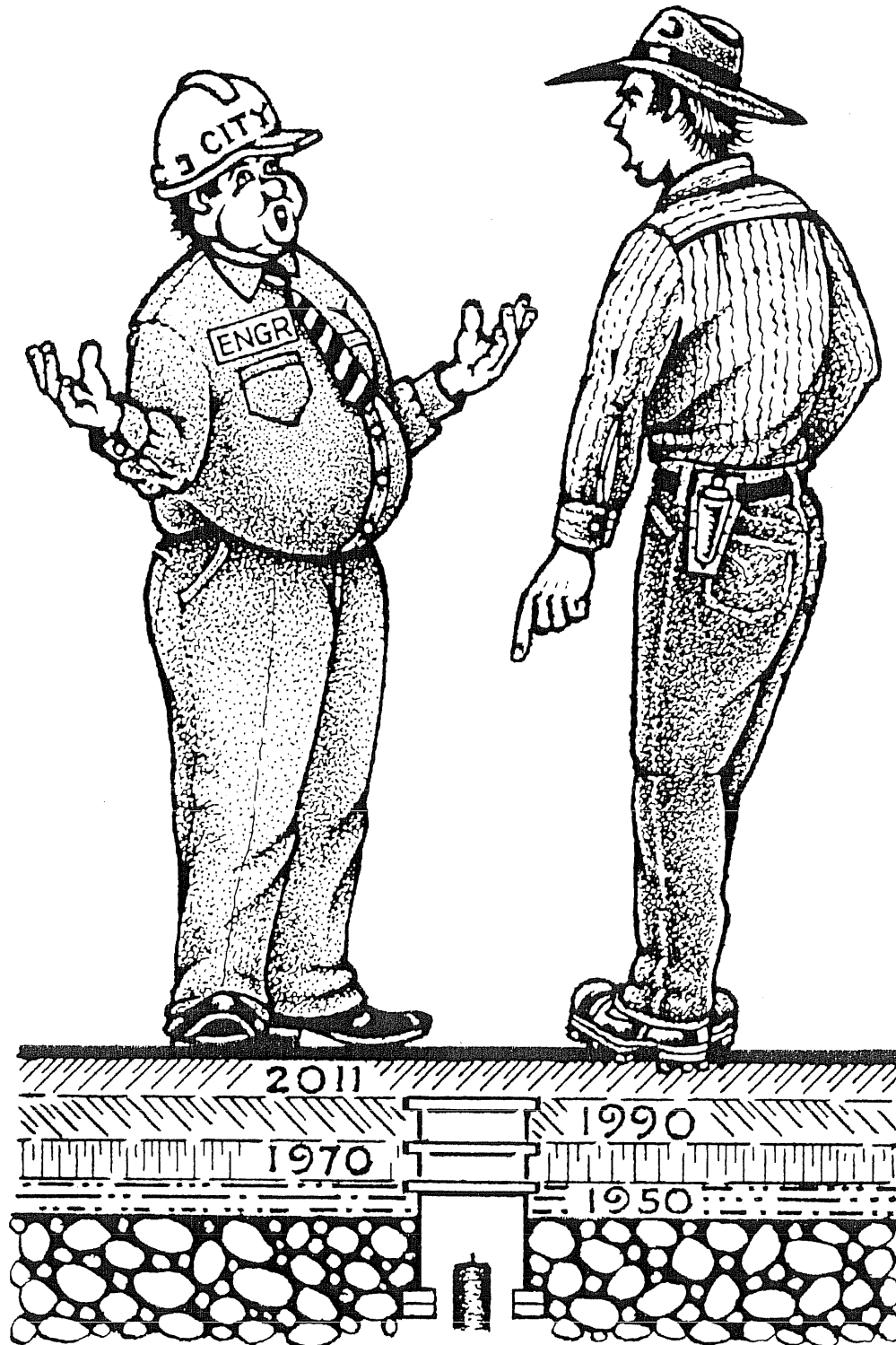


**SUGGESTED PROTOCOL
FOR THE PRESERVATION OF SURVEY MONUMENTS
IN MARIN COUNTY, CALIFORNIA**
(An guide for Marin County Public Works Association)



MATERIALS NEEDED:

- Ferrous metal detector (such as Schonstedt Model GA52-CX, Subsurface ML-1M or similar metal detector)
- 200' steel tape or appropriate measuring device
- Appropriate excavation equipment, i.e. jackhammer, Thunderbolt™ impace tool, cold chisel, 5' steel digging-bar, safety goggles & sledge hammer (to remove asphalt and/or earth from top of monuments.
- County Assessor's Map(s)
- Relevant Subdivision Map, Parcel Map, Record of Survey Map, Corner Record, (<http://www.co.marin.ca.us/SysApps/Corners/index.cfm>), unrecorded map or Bench Mark recovery note.
- Internet printout of NGS/NOAA Horizontal and Vertical control monuments. (http://www.ngs.noaa.gov/cgi-bin/ds_radius.prl)
- Control Diagrams and/or field notes from other sources (such as City, County, or private survey records, Appendix F)
- Hand-held GPS receiver or better - survey grade GPS

REFERENCES:

- Statutes (See attached Appendix A)
- Proper language in contract documents (See Appendix B)
- County of Marin Uniform Standard Standard Monument Detail (See Attached Appendix C)
- BPELS Resolution/Opinions (See attached Appendix E)
- Your agency/company's safety guide

OBJECTIVE:

- To safely protect and perpetuate survey control monuments as stipulated by State, Federal, Civil Legal Codes and Business and Professions Code.
- To prepare and file appropriate follow up documentation as required under the Land Surveyor's Act (either a Record of Survey map or Corner Record)

INTRODUCTION:

IMPORTANCE OF PRESERVATION

Survey control monuments are critically important to maintaining the position of property lines, right-of-way lines, geodetic positions and elevation control for FEMA Elevation Certificates. Monuments have been used in California for over 150 years to mark ranchos, subdivisions, and all various types of public land holdings. It is a requirement of local Subdivision Ordinances that permanent monuments be placed. Almost all survey field measurements are tied to survey monuments, which are set to allow for the retracement (or mark the position) of features and legal rights on the earth's surface. For example, homeowners need to know their boundaries, and Cities and Counties want to maintain their right-of-ways and jurisdictional boundaries. Control surveys monitor earthquake activity, subsidence, flood-control studies and determine accurate positions of navigation aids.

Survey monuments are expensive to establish and even more expensive to re-establish when they are destroyed. Monuments are required by government and local subdivision ordinance for orderly development and to protect the public from unscrupulous developers/sellers. They are an essential element to our legal system of land holdings and various aspects of ownership rights and obligations.

THE WELFARE OF THE PUBLIC

A destroyed boundary monument or bench mark can make a retracement survey very costly! Absent the original monument, (as called for), subsequent survey resolutions induce ambiguities due to *secondary* evidence relied upon to re-establish monument positions. The California Land Surveyors Association is dedicated to a higher standard of practice - and as such, attempts *any and all* efforts to preserve monuments. Administration Codes 404.1 and 404.2 of the Board of Registration of Professional Engineers and Land Surveyors (BPELS) *holds* us to another standard “. . . *whenever (engineering/surveying decisions which could affect the health, safety or welfare of the public are made.*”

The Board of Registration (BPELS) could interpret the destruction of a monument, without making any effort to inform the engineer or surveyor-in-charge, as an act of negligence . . . and - if over a body of work: may be construed as incompetence! (See Appendix E)

When subdivisions are approved, streets are often dedicated to the local jurisdiction in which they are a part. Cities and Counties, in accepting these dedications, are also accepting *ownership* of the streets - thereby becoming *guardians* of their facilities. Maintaining the asphalt, sidewalks, and *survey monuments* are all important aspects of maintenance and *Healthy, Safety & Welfare* issues.

SUMMATION

It is common courtesy and *professional duty* to protect any survey monument. Monuments affect anyone or anything, from a little ol' lady on a fixed income . . . to a City/County right-of-way . . . to environmental/earth sciences. The public, directly or indirectly paid for these monuments, retracement surveys, and geodetic control monuments with federal, state and/or local taxes! We all have a duty to maintain and preserve monuments, if not for the statutes - then for pride in our profession!

“Thou shalt not remove thy neighbor’s landmark which they of old times have set . . . “

”Cursed be to he that removeth his neighbor’s landmark and all the people (Especially BPELS) shall say amen.”

BEFORE GOING OUT TO BID:

- Protect the monuments with proper language in contract documents (See Appendix C) *And don’t lose sight of the fact that, regardless of contract wording - the engineer in charge of repaving, improvements, etc. is RESPONSIBLE in the eyes of the Board of Registration!* (See Appendix E)

BEFORE GOING IN FIELD TO INVENTORY/RECOVER MONUMENTS:

- Obtain a current copy of the Assessor’s Parcel Map of subject area.
- Obtain copies of any recorded maps, Corner Records, (<http://www.co.marin.ca.us/SysApps/Corners/index.cfm>), and private survey notes/plats (See Appendix F) where applicable
- Obtain copy of U.S.C. & G.S. 7.5' Quadrangle of subject area
- Scale Longitude and Latitude of subject geodetic control point from Quadrangle (or approximate field observation of LAT/LONG via hand-held GPS receiver of subject area)

- Make an internet search for Horizontal and Vertical control from the above-described LAT/LONG employing NGS/NOAA website http://www.ngs.noaa.gov/cgi-bin/ds_radius.pl
- Print-out monument location findings from this search.
- Contact appropriate local agencies for information and references to boundary or geodetic control monuments.
- If possible, sketch the location of Horizontal and Vertical control points upon the U.S.C.&G.S. Quadrangle map.
- Sketch the location of Subdivision, Parcel Map, Record of Survey monuments upon Assessor's Parcel Map.

FIELD PROCEDURES:

Know and practice your company/agency's safety procedures. More often than not, preserving monuments can prove dangerous ☹. Monuments may be located with the traveled way and at busy street intersections.

If it is determined that ferrous metals are contained in the monuments, make a careful "sweep" with a metal detector, or the area shown upon the various maps.

If monuments are made of other than ferrous materials (i.e. concrete monument, bronze disk, etc.) then a field traverse may be required in order to determine where to excavate such a monument. Should this be the case, it would be prudent to contact the City, County or Contract surveyor, as this now requires the expertise of a licensed surveyor.

Upon finding a monument, reference the monument with witness points out of the proposed construction area (see **Figure 1**). Because you may be the *last* person to measure the monument. So take measurements with great care - accuracy and redundancy.

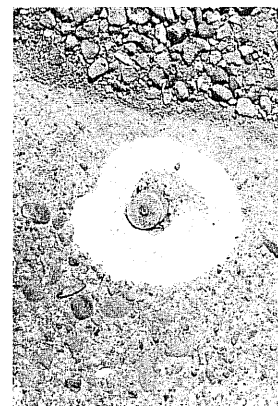
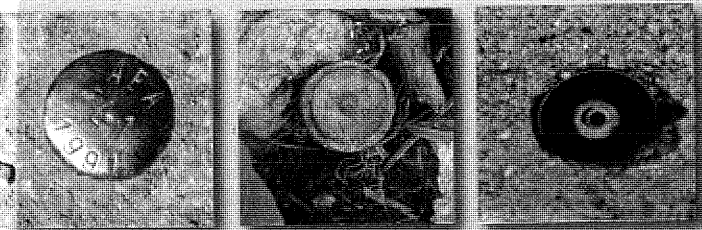
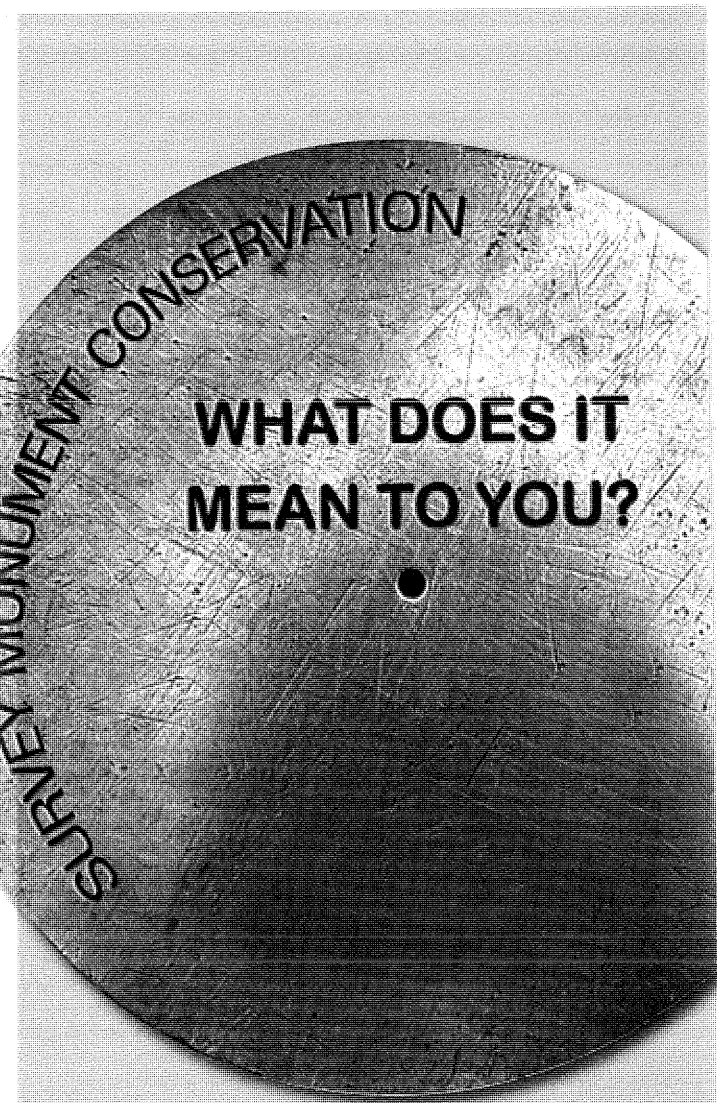


Figure 1



an informational brochure of California Land Surveyors Association

© 2011 CLSA

CLSA

DOCUMENTATION:

- ❑ After referencing the monument with a durable tagged “Witness Point(s)”, prepare and file either a Corner Record or Record of Survey map with the County Surveyor’s Office. (See **Appendix D** for sample of Corner Record.) **Note:** This must be performed by or under the supervision of a licensed land surveyor or civil engineer licensed to practice land surveying (pre-1982 engineer.)

POST CONSTRUCTION CONSIDERATIONS:

- ❑ It may become necessary to accurately(!) re-establish monuments destroyed during construction employing the “Witness Points”. This can be accomplished by using the Witness Points to re-set the construction center-point of the rebuilt monument. After you have set the monument center-point (punch mark), place two sets of Monument Straddlers in the form of an “X” as shown in Figure 2.
- ❑ Typically, the contractor will “drill out” the center point of the monument and accurately place a bronze disk stamped with the surveyor’s (or engineer licensed to practice surveying) registration number. This disk will be placed employing the two sets of straddlers. Most importantly, a County Standard Street Monument lid and ring iron casting is placed at the surface of the finished pavement to ensure safe and facile access to the monument.
- ❑ Subsequent to the monument being installed, the contractor notifies the surveyor (or Pre’82 engineer) to “punch” the bronze disk. This “punch” mark must accurately reproduce the position of the original monument.
- ❑ Upon completion of marking (“punching”) the bronze disk, the licensed surveyor or engineer licensed to practice surveying (Pre-’82 licensee) shall, within 90 days, file a Corner Record or Record of Survey map if appropriate.

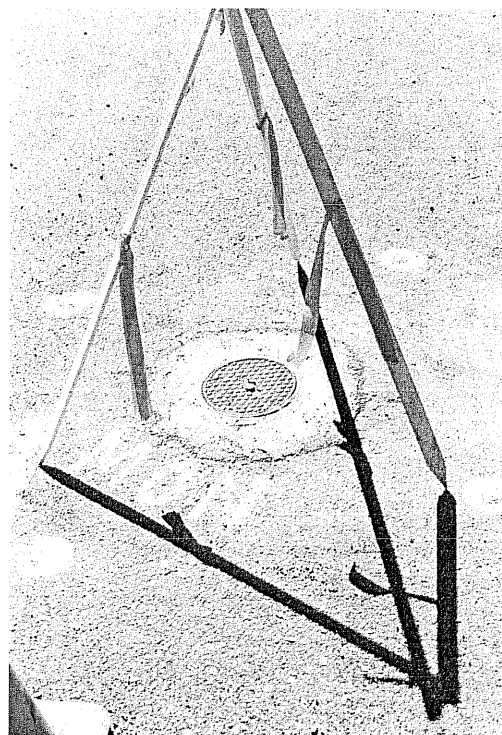


Figure 2

APPENDIX A

The following Statutes refer to monument preservation:

1). **Business & Professions Code 8771.**

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.

2). **Board Rules (Administrative Code, Title 16, Division 5) 464(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 mor 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.

3). **Penal Code 605.** Every person who either:

1. Maliciously removes any monument erected for the purpose of designating any point in the boundary of any lot or tract of land, or a place where a subaqueous telegraph cable lies; or,
2. Maliciously defaces or alters the marks upon any such monument; or,
3. Maliciously cuts down or removes any tree upon which any such marks have been made for such purpose, with intent to destroy such marks; --Is guilty of a misdemeanor.

4) **Penal Code 615.**

Every person who willfully injures, defaces, or removes any signal, monument, building, or appurtenance thereto, placed, erected, or used by persons engaged in the United States Coast Survey, is guilty of a misdemeanor.

5). **Penal Code 622.**

Every person, not the owner thereof, who willfully injures, disfigures, or destroys any monument, work of art, or useful or ornamental improvement within the limits of any village, town, or city, or any shade tree or ornamental plant growing therein, whether situated upon private ground or on any street, sidewalk, or public park or place, is guilty of a misdemeanor.

6). **Streets & Highways Code 732.**

Any person who wilfully injures, defaces, breaks down or removes any monument or stake placed, erected or used by the department to designate any point in the boundary or survey of any State highway or proposed State highway is guilty of a misdemeanor.

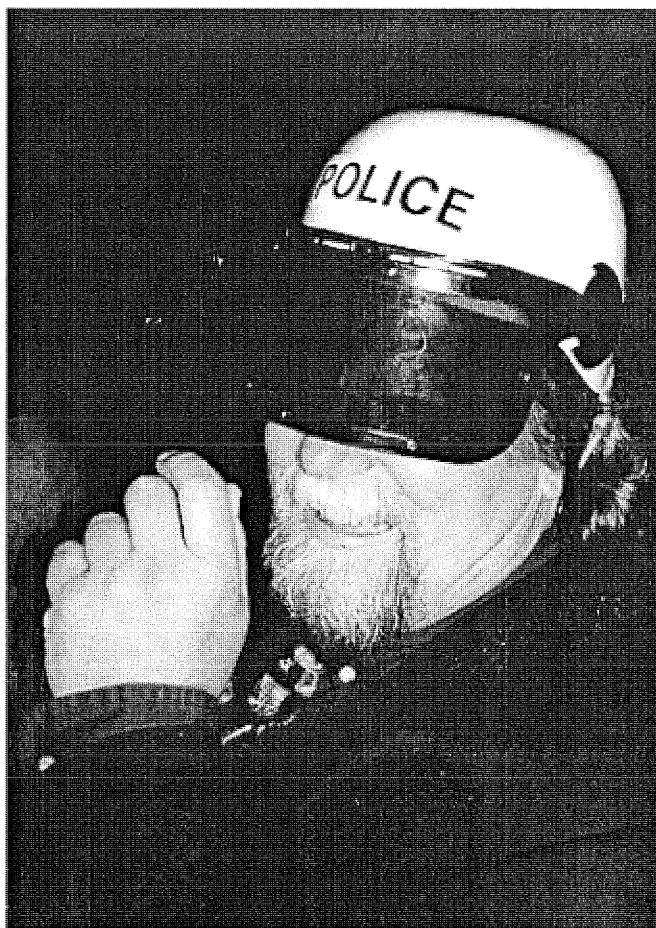
7). **Streets & Highways Code 732.5.**

Survey monuments shall be preserved, referenced, or replaced pursuant to Section 8771 of the Business and Professions Code

8). "GREENBOOK" Section 2-9.1.

Permanent Survey Markers. The Contractor shall notify the Engineer, or the owner on a Private Contract, at least seven days *before starting work to allow for the preservation of survey monuments, lot stakes (tagged), and bench marks.* The Engineer, or the owner on a Private Contract, will at its cost, file a Corner Record Form referencing survey monuments subject to disturbance in the Office of the County Surveyor *prior to the start of construction* and also prior to completion of construction for the replacement of survey monuments. The Contractor shall not disturb survey monuments, lot stakes (tagged), or bench marks without the consent of the Engineer or the owner on a Private Contract. *The Contractor shall bear the expense of replacing any that may be disturbed without permission.* Replacement shall be done only under the direction of the engineer by a Registered Land Surveyor or a Registered Engineer authorized to practice land surveying within the State of California.

When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located, the Contractor shall adjust the monument cover to the new grade within seven days of finishing paving unless otherwise specified in the Special Provisions.



Want the
BPEL-EECE to visit?

APPENDIX B

PRESERVATION OF SURVEY MONUMENTATION CONTRACT LANGUAGE:

Contractor shall be responsible for identifying and preserving any and all existing Monuments or Survey Points (Apparent or Buried) which control Subdivisions, tracts, streets or highways, or Geodetic Control and/or Published Elevation Control.

If monuments are inadvertently disturbed by the contractor, the contractor is responsible for all costs of replacement and resetting the monument including survey costs.

If monuments are to be disturbed, the contractor shall provide a minimum of 10 working days notice to the project Engineer or Land Surveyor prior to the disturbance or removal of any existing monuments (Apparent or Buried).

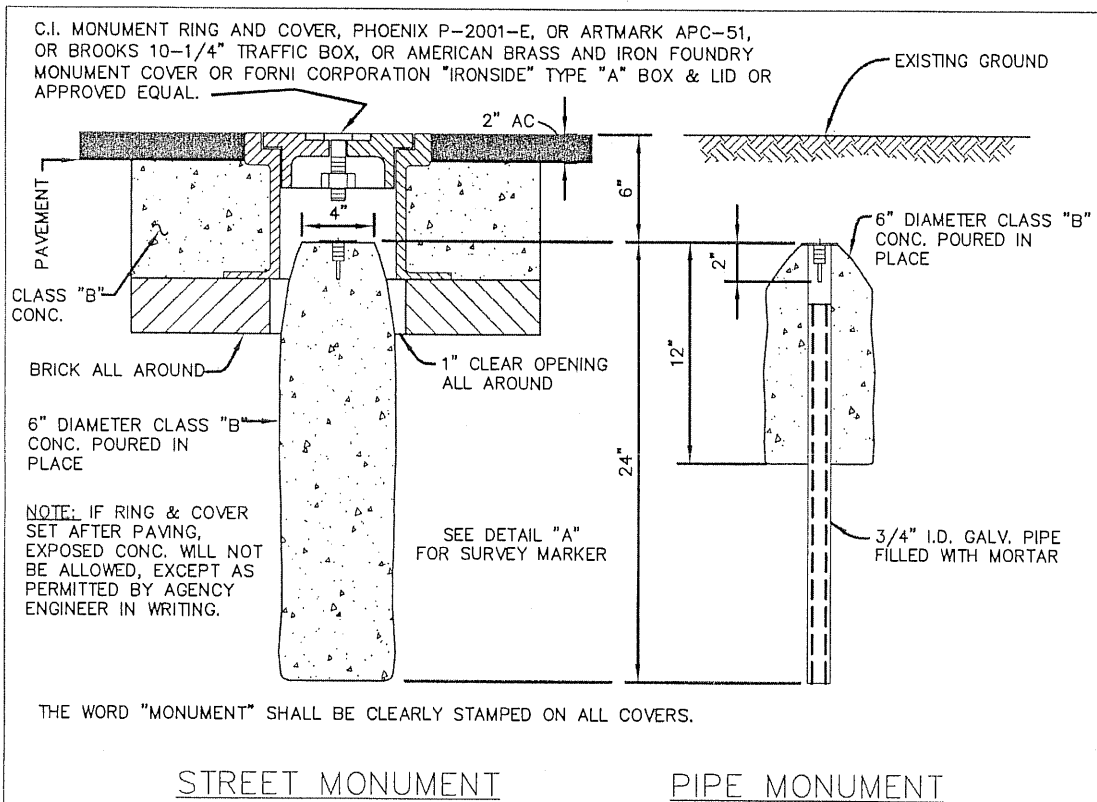
If a monument is to be disturbed the Contractor shall coordinate with the project Engineer or Land Surveyor to have a minimum of four ties to survey points, (set iron pipes, 5/8ths rebar or durable marker), a copy of the field notes showing the ties and a Corner Record shall be filed with the County Surveyor's Office, (Business and profession Codes 8771).

APPENDIX B (Continued)

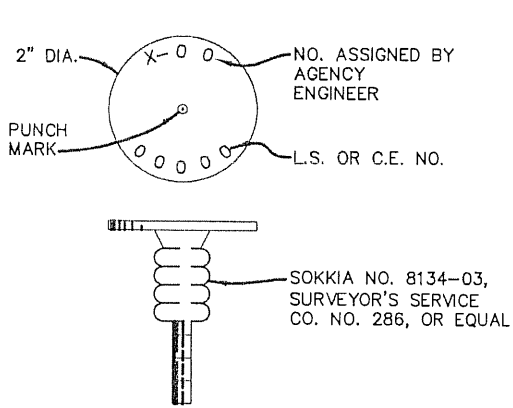
Monuments requiring replacement or resetting shall be of acceptable type and quality as directed by the Engineer. They shall be placed by a Surveyor registered in the State

of California in a manner consistent with good and recognized engineering and surveying practices and in accordance with the City's standard drawings, and the State of California regulations, and a Corner Record shall be filed for the replaced monument, (Business and profession Codes 8771).

APPENDIX C



M:\Standards\County Standards (UCS)\2008 Updated County Standards



DETAIL "A"

NOTES:

1. MONUMENTS SHALL BE SET AT THE LOCATIONS DESIGNATED ON THE PLANS AND ON THE FINAL MAP.
2. STREET MONUMENTS SHALL BE USED IN ALL PAVED AREAS AND OTHER LOCATIONS AS SHOWN ON THE PLANS. IRON PIPE MONUMENTS SHALL BE USED AT ALL OTHER LOCATIONS IN THE PUBLIC RIGHT OF WAY.
3. NO CONCRETE SHALL BE PLACED PRIOR TO EXCAVATION INSPECTION BY THE AGENCY ENGINEER.
4. MONUMENTS SET ON SUBDIVISION BOUNDARIES SHALL BE 3/4" DIAMETER GALVANIZED IRON PIPE 24" LONG FILLED WITH MORTAR.

UNIFORM STANDARDS ALL CITIES AND COUNTY OF MARIN	MONUMENTS			MAY 2008		
				REV.	DATE	BY
				DWG. NO.		
				300		

APPENDIX D

A.P.# 193-10

CORNER RECORD

COUNTY OF Marin T. _____ R. _____ MERIDIAN _____ CALIFORNIA
 CORNER TYPE: GOVT. CORNER MEANDER RANCHO CONTROL OTHER
 CORNER IDENTIFICATION - DATE OF VISIT July 7 1992



Street monument on Brighton Avenue, Bolinas as shown on 11 Surveys 49 and 13 Maps 72 AP sheet 193-10

CORNER - LEFT AS FOUND FOUND AND TAGGED REESTABLISHED OBLITERATED CORNER RESULT

PHYSICAL DESCRIPTION OF CORNER FOUND; EVIDENCE AND METHOD USED TO IDENTIFY OR REESTABLISH

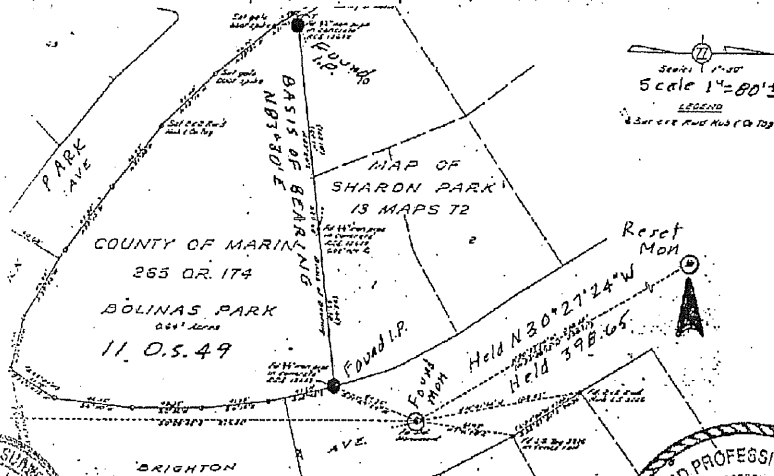
Northerly monument of a pair was destroyed by sewer work. To reset, used found iron pipes on northerly line of Bolinas Park for basis of bearing. Held bearing and distance between monuments per 11 O.S. 49

PHYSICAL DESCRIPTION OF MONUMENTS, RESULT OR PERPETUATED

Reset standard street monument in cast iron ring and cover

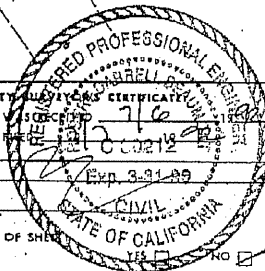
CALIFORNIA COORDINATE SYSTEM ORDER: FIRST SECOND THIRD CCS not used
 STATIONS USED: NGS (USC & GS) STATE COUNTY OTHER STATION _____ STATION _____
 ZONE _____ ELEVATION _____ NORTHINGS (N) _____ EASTINGS (E) _____

SKETCH: (Include reference file or witness points, remarks and topo of area)



SURVEYOR'S CERTIFICATE
 No. THIS CORNER RECORD WAS PREPARED BY ME OR UNDER MY
 EXP. PERMISSION IN CONFORMANCE WITH THE LAND SURVEYORS ACT
 ON July 7 1992
 SIGNED: Donald S. Thomas
 Lic. No. R.C.E. No. 3288

SEAL



COUNTY MARIN SURVEYOR'S CERTIFICATE NO. 716
 THE CORNER RECORD WAS RECEIVED, RECORDED, INDEXED, AND EXAMINED AND FOUND TO BE CORRECT
 BY: [Signature] DATE: July 21 1992
 TITLE: REGISTERED PROFESSIONAL ENGINEER Exp. 3-31-99
 DOCUMENT No. _____
 STATEMENT ON BACK OF SHEET _____

APPENDIX E

STATE OF CALIFORNIA - STATE AND CONSUMER SERVICES AGENCY

GOVERNOR EDMUND G. BROWN JR.



BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

2535 Capitol Oaks Drive, Suite 300, Sacramento, California, 95833-2944

Telephone: (916) 263-2222 - Toll Free: 1-866-780-5370

Facsimile: (916) 263-2246

www.pcls.ca.gov & www.geology.ca.gov



January 5, 2011

Mr. David Hobbs
Professional Practices Committee Chairman
California Land Surveyors Association - Los Angeles Chapter
2920 W. Magnolia Blvd
Burbank CA 91505

Re: Request for Opinion - Monument Preservation

Mr. Hobbs,

In response to your inquiry regarding the applicability of Business and Professions Code, Section 8771(b) as it relates to the responsibilities on the part of the land surveying community and government agencies, we offer the following:

8771. states:

(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...

1. *Does the definition of monument include evidence such as: lead & tack, concrete nail with tin, chiseled X, rebar, etc.?*

Any object that is represented as physically marking the limits of real property or physically representing the alignment or limits of a road, street, highway or easement could be considered a monument as it pertains to the location of subdivisions, tracts, boundaries, roads, streets or highways as referenced in this section of code.

Any physical object that is considered as being representative of horizontal or vertical survey control for the purposes of being utilized as a basis for land surveys could be considered a monument as referenced in this section of code.

2. *Are property corner monuments or offset monuments considered to meet the criteria that "control the location...?"*

Yes. See answer to Question 1 above.

3. *Do non-referenced monuments need to be perpetuated?*

Yes. Section 8771(b) does not distinguish between monuments that are "referenced" or noted on record documents and those that are "not referenced" or not depicted on record documents.

4. *Does the word "exist" include record monuments that may not be visible from the surface, but could be recovered based upon research (i.e. original tract corner that may be under sidewalks, buried centerline monuments, etc.)?*

Records research is required in addition to a field inspection to properly determine the existence of monuments. Without conducting research of the required records, field inspection would not be able to adequately determine the existence of all monuments in accordance with Section 8771(b).

APPENDIX E (Cont.)

8771. (cont.)

...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.

5. *Is an inventory and survey of all monuments within the project area required prior to construction?*

Yes. See answer to Questions 3 and 4 above.

6. *If existing record monuments have not been located or surveyed prior to construction and if all those monuments are destroyed during construction, how could someone reset their locations after the fact, based upon the record centerline tie sheets?*

During the performance of all land surveys, the responsibility for determining the use of the best available pertinent evidence and procedures rests solely upon the licensed land surveyor conducting the survey.

7. *Assuming that there was not record information for given survey monuments, how would someone reset the location of a survey monument in its' previous location if it had not been surveyed prior to destruction?*

See answer to Question 6 above.

8. *If there are existing property corner monuments or offset monuments in place prior to construction, would those be required to be replaced after construction?*

Yes.

8771. (cont.)

...It shall be the responsibility of the governmental agency or others performing construction work to provide for the monumentation required by this section.

9. *What is the difference in the statement "responsibility of the governmental agency or others performing construction work" and who is ultimately responsible?*

If the project involves a government agency, the government agency or contractor is responsible for preserving existing monumentation.

10. *Can a governmental agency shift the responsibility of monument preservation to a non-licensed individual (i.e. Contractor)?*

A government agency can include the tasks for preserving existing monuments within the scope of a contract (see answer to Question 9 above) as long as the land surveying activities (records research, field inspection, determination of monuments, survey, etc.) as referenced by Section 8771(b) are conducted by or under the responsible charge of a licensed land surveyor. But as noted in the answer to Question 9 above, the government agency is responsible for preserving existing monumentation thereby protecting the public's interest.

APPENDIX E (Cont.)

Additionally, some surveyors are showing this disclaimer on their perpetuation Corner Records:

"The purpose of this record is to document the perpetuation of found monument(s) pursuant to the PLS Act Section 8771. No claim is made regarding the correctness of the position(s) of said monument(s), nor the dimensional relationship to the street centerlines or property boundaries."

11. *What is the purpose of placing this type of disclaimer on a Corner Record if the intent may have been to preserve street centerline monuments?*

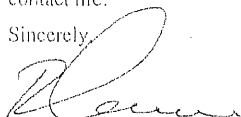
Being that the Board is not the source of this "disclaimer", we offer no explanation for the intended purpose. We suggest that you inquire with the sources that prepared this language.

12. *Does using this type of disclaimer relieve the surveyor of his/her requirement to perform sufficient research and recovery of record survey monuments that may not be visible from the surface?*

No. See answer to Question 4 above.

Should you require any additional information regarding this inquiry, please do not hesitate to contact me.

Sincerely,



Richard B. Moore, PLS
Senior Land Surveyor Registrar
(916) 263-2271
Ric.moore@dca.ca.gov

APPENDIX E (Cont.)

GUIDE TO

Engineering & Land Surveying

for City and County Officials



Neil King, PLS - President
David Harp, PLS - Vice President

Douglas Matteson, P.E. - Secretary/Treasurer
Keith Vincent, PLS - State Representative

CLSA Website: <http://www.californiasurveyors.org>

APPENDIX E (Cont.)

A record of survey which divides into additional parcels of land which is shown on the latest adopted county assessment roll as a unit or as contiguous units cannot be filed without a certificate by the county surveyor (if the land lies within an unincorporated area) or city engineer (if the land lies within a city) of compliance with the provisions of the Subdivision Map Act, Division 2 (commencing with section 66410) of Title 7 of the Government Code, and any applicable local ordinance enacted pursuant thereto.

55. What must be done if the land surveyor or legally authorized civil engineer and the county surveyor disagree about matters on the record of survey or corner record? (B&P Code §§ 8768, 8773.2)

If the county surveyor and the licensed land surveyor or legally authorized civil engineer cannot agree upon matters appearing on a record of survey or corner record within 10 working days after the record of survey or corner record has been resubmitted with a request that it be filed without further change, an explanation of the differences must be noted on the map and it must be presented by the county surveyor to the county recorder for filing. If the county surveyor and the licensed land surveyor or legally authorized civil engineer cannot agree on the language explaining the differences, both must note an explanation, specific enough to identify the factual basis for the difference of opinion, on the record of survey.

56. What are the city local agencies' responsibilities with regard to the preservation and perpetuation of monuments? (B&P Code § 8771)

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 legally authorized 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.

It shall be the responsibility of the governmental agency or others performing construction work to provide for the monumentation required. 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.

The project engineer/surveyor should coordinate with the contractor to reset monuments or provide permanent witness monuments and file the required documentation with the county surveyor, per Business and Professions Code section 8771.

APPENDIX F

Location of Private Survey Records (April 2011)

William Schroeder, PLS 5814
San Rafael, CA (415) 472-4759
has the following survey archives:

Hiram Austin	George Richardson	John Oglesby
C.H. Towle	W. Gordon Voochries	George Colson
Art Roth	George Wickham	Joseph Grippi
Tommy Brunner		

David Contreras, Custodian of Marin Chapter CLSA Records
Novato, CA (415) 892-5905
has the following survey archives:

William Lockett, Jr. Sherman Hool George Borgwardt

Linda Carruthers, PLS 7053
Sausalito, CA (415) 332-3912
has the following survey archives:

John Estes George Roemer

APPENDIX F (continued)

Phillip A. Danskin, PLS 4794
Sonoma, CA (415) 459-2558
has the following survey archives:

Eugene A. Lockton John Bonnoitt

Douglas Scranton, PLS 6649
Petaluma, CA (415) 897-2663
has the following survey archives:

Peter Joos

L.A. Stevens, PLS 6649
Novato, CA (415) 382-7713
has the following survey archives:

Michael Brogan	Kenneth Burton	Joe Burton
A.H. Dakin	George Comstock	Ken Frost
Vince Meglio	Dean Rhodes	Ed Gardner