CALIFORNIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS



1981

LAND SURVEYOR



PRINCIPLES AND PRACTICE

- This examination is given in two four-hour periods on the same day. The subject matter relates to the principles and practice of land surveying. Part "C" is the first of two parts.
- 2. In the workbook, you are to work ALL Problems C-1 through C-5. There are no optional questions.
- 3. You may withdraw from scoring any part of your work by isolating that part, and writing "VOID" across it. Delineate the voided part clearly.
- 4. Enter your identification number in the upper right-hand corner on <u>EACH PAGE</u> of the workbook where space is provided and <u>IDENTIFY THE PROBLEM NUMBER</u> according to the schedule given in (6) below.
- 5. Read the instructions on the workbook cover page.
- 6. This portion of the Land Surveyors Examination consists of the following:

Problem C-1		10	Points
Problem C-2		10	Points
Problem C-3		5	Points
Problem C-4		15	Points
Problem C-5		10	Points
	TOTAL	50	Points

YOU ARE TO WORK ALL 5 PROBLEMS

- 7. After you have completed this portion of the examination, check the problem order, include all pages, and turn it in to the Examination Proctor.
- 8. You may keep this set of examination questions.

PROBLEM C-1 (10 POINTS)

REQUIRED

Alfred Terry acquired the following described parcel by Grant Deed recorded December 5, 1966, in Book 1000 of Official Records, Page 21:

That certain real property situated in the County of Mendocino, State of California, described as follows:

That portion of Lot 2 of Section 13, Township 11 North, Range 16 West, Mount Diablo Base and Meridian, according to the official plat thereof, described as follows:

BEGINNING at a point in the centerline of the Mendocino Coast Wagon Road, as traveled, said point being distant East, 85.0 feet; South 17° 54' East 597.5 feet, and South 38° 37' East 141.7 feet from the Northwest corner of Lot 2, Section 13, Township 11 North, Range 16 West, Mount Diablo Base and Meridian, running thence along the centerline of said Wagon Road South 60° 30' East 119.97 feet; South 82° 49' East 106.83 feet; North 68° 57' East 93.41 feet, North 62° 08' East 98.80 feet; South 80° 06' East 76.05 feet; South 49° 43' East 122.52 feet; thence leaving said Wagon Road centerline South 57° 07' West 489.05 feet along a wire fence and Northwesterly of creek known as Seeley Creek flowing in general direction of said fence to the shoreline of the Pacific Ocean; thence along said shoreline North 49° 30' West 170.90 feet; thence leaving said shoreline North 2° 50' West 239.85 feet to the point of beginning.

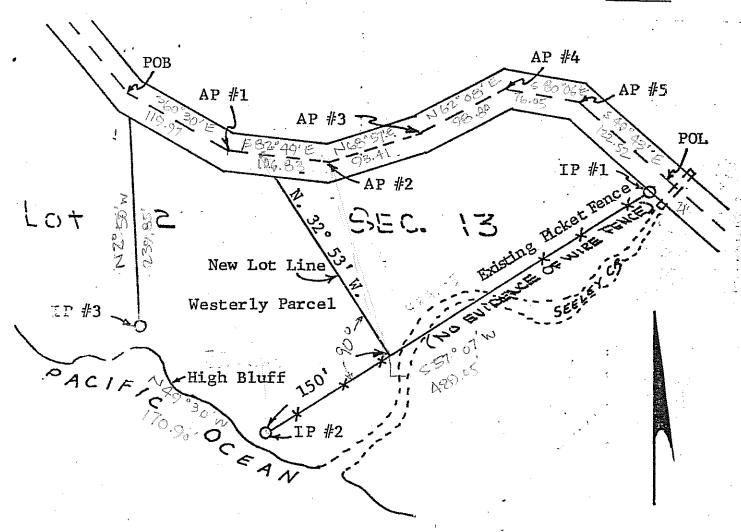
- A. You have been requested to survey the exterior boundaries, split out the westerly parcel as shown on the attached sketch, and write a metes and bounds description of the westerly parcel.
- B. Is a Record of Survey required? State reasons for your answer.

Field Tied values of monuments located are as follows:

DESCRIPTION	NORTHING	EASTING
Br. Cap on I.P. correctly stamped for NW Corner Lot 2	15,000.00	5,000.00
I.P. #1 - No tag - No reference	14,224.73	5,892.48 51*03′ 17"
I.P. #2 - No tag - No reference	468.04 13,970.19	
I.P. #3 - No tag - No reference '	170.490 14,081.18	5,499.70 46)°36°6 5,369.74

12/10/28 2-4-10/28 2-4-10/28

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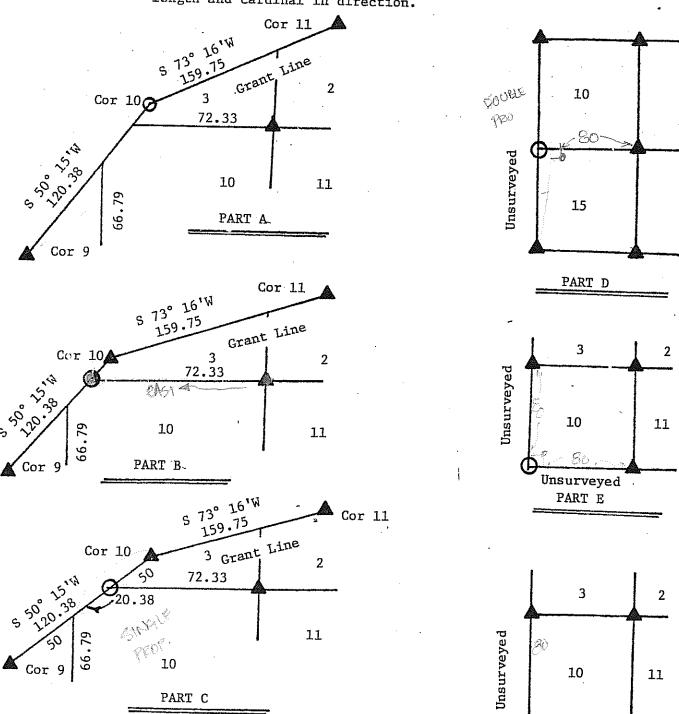
Centerline coordinate values are as follows:

DESCRIPTION	Northing	<u>Easting</u>
P.O.B.		5,357.08
Angle Pt. #1	14,261.63	29-30-03 5,461.50
Angle Pt. #2	14,248.27	5,567.49
Angle Pt. #3	14,281.82	5,654.67
Angle Pt. #4	14,328.00	5,742.01
Angle Pt. #5	14,314.93	5,816.93
P.O.L. (POINT ON CEMERLINE)	14,235.71	5,910.39

Unsurveyed PART F

Single and double proportionate methods of restoring original lost corners are two commonly used principles. Explain in detail what principles you would follow to re-establish lost public land corners in each part of an official plat below.

NOTE: Found corners are indicated by a filled in triangle. A
The lost corner is indicated by a O.
Assume any undimensioned section line is of standard
length and cardinal in direction.



PROBLEM C-3 (5 POINTS)

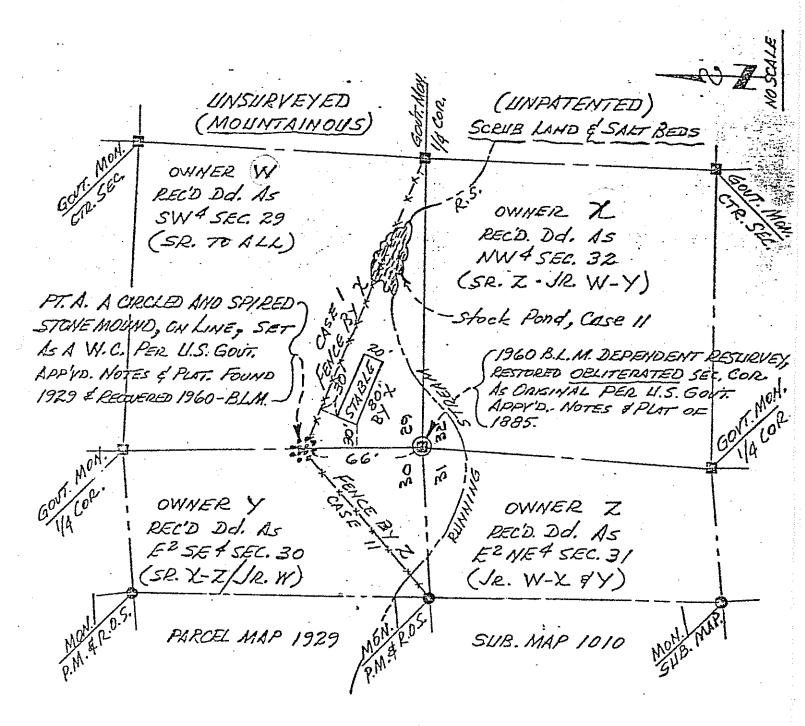
REQUIRED

Each statement "A" through "O" below is a definition or description of a photogrammetric device, product or procedure. Match the best answer from the list of numbered items with each statement and enter the correct number of your answer on the worksheet in the answer booklet.

- A. A method of expressing the expected vertical map accuracy of a stereoplotter.
 - B. Performed using a mono or stereocomparator or stereoplotter.
 - C. Usually performed using a stereoplotter equipped with an electronic measurement system.
 - D. Part of a camera system referencing the optical center of the lens.
- The outward or inward image shift from the photo center due to terrain.
- γ_{b} F. The outward or inward image shift from the photo center due to lens design.
- G. An assemblage of aerial photographs brought to an approximate scale.
-) H. A simple Kelsh type mapping instrument.
- \bigcirc I. The distance between photo centers of a stereo pair.
 - J. Corrects most images on a photograph to an exact scale.
- 6 K. Clarity of a photographic image.
- 19 L. A representation of cultural and terrain features by line drawing.
- M. Portable device for viewing aerial photos.
 - N. Relative displacement of an image in a stereo pair creating stereoscopic height.
 - 0. Mapping device capable of correcting for earth's curvature and refraction.
 - 1. Airbase
 - 2. Analytical Photogrammetry
 - 3. Aerotriangulation
 - 4. Analytical Stereoplotter
 - 5. Base/Height Ratio
 - 6. Calibrated Focal Length
 - 7. C Factor
 - 8. Comparator
 - 9. Controlled Mosaic
 - 10. Double Projection Plotter
 - 11. Fiducial
 - 12. Focal Plane
 - 13. Hydrographic Map
 - 14. Hypsographic Map
 - 15. Image Resolution
 - 16. J Factor
 - 17. Orthophoto Mosaic

- 18. Orthophotography
- 19. Optical Mechanical Stereoplotter
- 20. Photo Index
- 21. Parallax Bar
- 22. Planimetric Mapping
- 23. Principal Point
- 24. PUG
- 25. Digital Profiling
- 26. Radial Distortion
- 27. Relief Displacement
- 28. Stereoscope
- 29. Topographic Map
- 30. Uncontrolled Mosaic
- 31. X Parallax
- 32. Y Parallax
- 33. None of the above.

T. 9 S., R. 3 E., Willamette Meridian. Monuments accepted and sketch as shown in Figure 1. Case's of statement and questions as given.



PROBLEM C-4 (15 POINTS)

REQUIRED

CASE 1

STATEMENT

GIVEN CONDITIONS AS SHOWN IN FIGURE 1. "W" and "Y" as past and current owners were both a witness when in 1929, a private survey (1) of property of "Y" was made, finding remains of the original section corner. The corner was further obliterated by 1965. In 1967, "X" received his property by gift (without benefit of survey) from deed. Hence, "X" subsequently asked "W" where the boundary line between them was since he wished to build a boarding stable and fence. Seeing a chance for enlarging his holdings "W" told "X" that Point A was the section corner. In 1968, "X" relying on "W's" information built his improvements as shown. In 1969, "W", being a power in politics and financial circles had the section corner retraced and verified by another private surveyor (2) and thereupon took possession and use of said stable and fence. "X" was naturally upset and filed suit against "W". "Y" was silent and "Z" was unaware!

CASE 11

STATEMENT

AGAIN GIVEN CONDITIONS AS SHOWN IN FIGURE 1. In 1965, while wealthy owner "W" was on vacation in Europe "X" had his property surveyed by contract to licensed surveyor "S", whereupon "S" by physical survey established the section corner at Point A, and filed a Record of Survey of the "W" and "X" properties. "X" and "Z" acting upon said survey constructed their improvements as shown. "W" upon return from vacation and observing his stock pond mostly fenced off filed suit against "X" and "Z". "Y", after conferring with his long time friend "W" removed "Z's" fence and joined in the suit with "W".

<u>CASE 111</u>

STATEMENT

ASSUME THE SECTION CORNER IS LOST. ALSO ASSUME CONDITIONS FROM FIGURE 1 AS REQUIRED PERTINENT TO THIS QUESTION.

No surveys of record have been made by anyone since 1885. In 1930, all the owners of recorded deeds mutually agreed that the circled and spired stone mound is the true section corner - creating their improvement to said corner and resultant lines. In 1965, surveyor "S" after a physical inspection of the property with "Y" and "Y's" realtor, buy "Y's" property. Some nine (9) months

PROBLEM C-4 (15 POINTS)

REQUIRED

CASE 111 - STATEMENT (continued)

later after research of the Government records "S" contests Point A, wanting to move it some 66 feet southerly on line from the north 1/4 corner. "Z" understandably objects while "W" and "X" are too tied up with other business to get involved.

CASE 1

QUESTIONS

- 1. Considering Senior and Junior rights between what points is the boundary line of "W" and "Y" and state your reasons.
- 2. Who would the Court most likely uphold under what principle of law and where would the Court most likely establish the legal boundary line between "W" and "X"?
- 3. Do any of the parties (W, X, Y, Z) have recourse against the private surveyor (2)? State your reasons.

CASE 11

QUESTIONS

- 1. Did "Y" act prudently in removing the fence by "Z" and joining the lawsuit?
- 2. Does surveyor "S" have a liability? Explain your answer.
- 3. Who would the Court most likely hold for and against under what principle of law? Explain your answer.

CASE 111

QUESTIONS

- 1. Does "Z" have a valid objection and should "W" and "X" get involved? Explain.
- 2. What data could surveyor "S" have obtained by researching the Government records and of what use to him could that data be?
- 3. Would the Court most likely uphold "S" or "Z" and under what principle of law?
- 4. Assuming negative factors would Case 111 with conditions, variables and due process, under Court decision establish a general precedent of law and why or why not?

CALIFORNIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS



1981

LAND SURVEYOR

D

PRINCIPLES AND PRACTICE

- This part of the examination "Part D" is the second part of the Land Surveyor examination, and is to be completed in 4 hours.
- 2. Your answers are to be completed in your workbook use separate answer sheets for each problem, unless otherwise instructed.
- 3. This portion of the Land Surveyor examination consists of the following:

Problem D-1 OR Problem D=2	CHOOSE ONE	15.0 Points
Problem Dea.	REQUIRED	12.5 Points
Problem D-4	REQUIRED	2.5 Points
Problem D-5	REQUERED	5.0 Points
Problem D-6 OR Problem D-7	CHOOSE-ONE	5.0 Points
Problem B-8 OR Problem D-9	CHOOSE ONE	10.0 Points
	TOTAL	50.0 Points

- 4. Do not work both problems where a choice is offered. Credit will be allowed for one (1) problem only.
- 5. Problems D-3 and D-8 require that you remove one sheet that is to be attached to your workbook. Be sure that your work on the diagrams is neat, orderly and legible.
- 6. After you have completed this portion of the examination, check the problem order, include all pages (including diagrams if required) and turn it in to the examination proctor.
- 7. You may keep this set of examination questions.

PROBLEM D-1 (15 POINTS)

WORK D-1 OR D-2 NOT BOTH

Your client owns Lot 4 of fractional Section 5, TlN, R8W, MDM, situated in an unincorporated area of (blank) County, California, and wishes to subdivide his property for sale. Lot 4, according to the official plat and field notes, is bounded on the West by the Pacific Ocean.

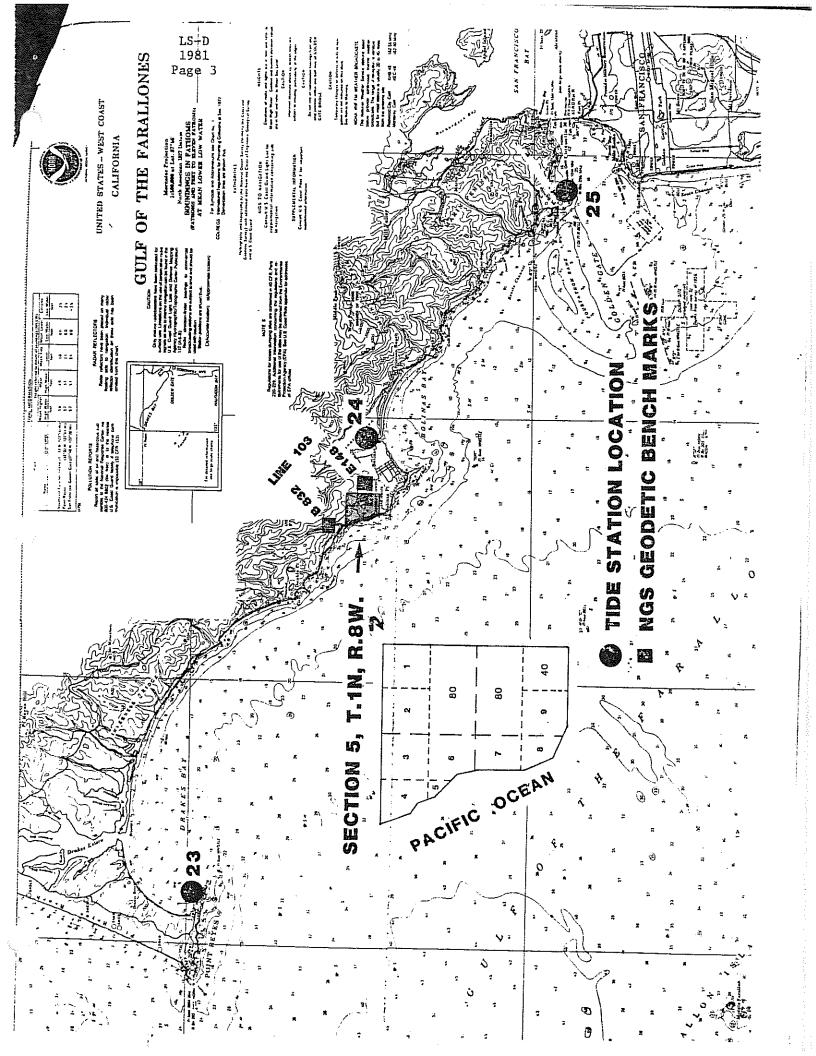
As a condition of the approval of the tentative map, county ordinance requires the dedication of a 100 foot wide strip as measured from the seaward boundary of Lot 4 as a marine preserve.

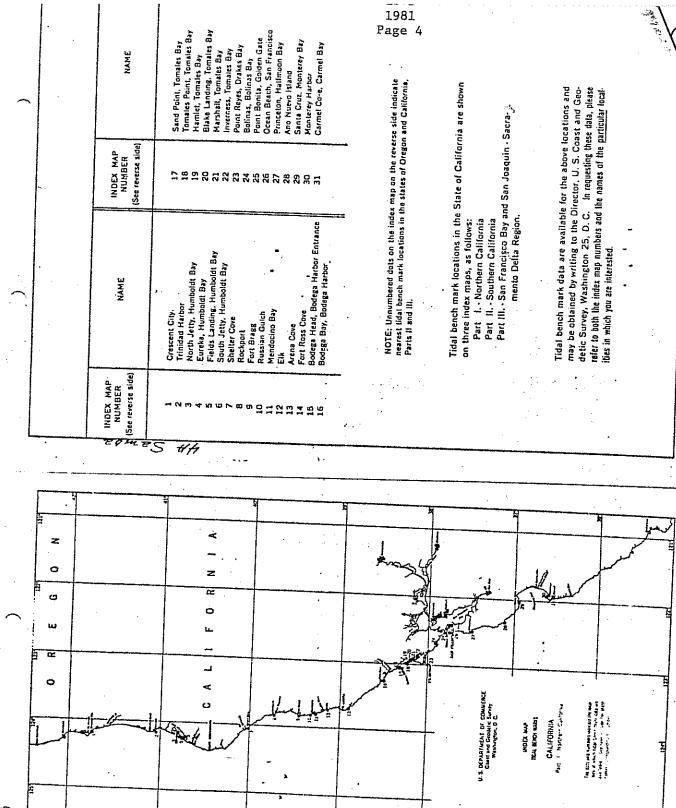
You find that the seaward portion of Lot 4 consists of a natural sandy beach approximately 300 feet in width as measured from the toe of the bluff.

In addition, it is apparent from your resurvey of Section 5, that the U.S. Deputy Surveyor ran his meanders of the Pacific Ocean through Section 5 at the top of the bluff, and that no patents or other conveyances to other lands exist in this intervening strip. (Area between U.S. Meander line and the Pacific Ocean).

From the above facts and attached data, discuss the following points:

- 1. Describe how you would advise your client of the true nature and character of the seaward boundary of his property; the nature and character of the area to be dedicated; and what his property rights are to the lands between the U.S. meander line and the shoreline boundary of the Pacific Ocean.
- 2. From the attached data, what tidal datum would you select to run in the field to locate the true seaward boundary of the property?
- 3. From the attached data, what elevation would you compute to run in the field?
- 4. Describe how you would establish the elevation computed in (3) above on the property in question.
- 5. Describe your survey procedure to locate this datum/line on the ground with respect to subject property.
- 6. Write an elevation/datum note documenting the above data for inclusion on your tentative and final map.





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Service Contract

4 s Received 3/2867

CALIFORNIA 1-23

DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

PIDAL BENCH MARKS

77° 59'.5; Long. 122° 58'.5 Lat.

BENCH MARK 2 (1929) is a standard disk, stamped "BM TWO 1929," set in top of west edge of cement walk which extends north towards Goast Guard Station building. It is 33½ feet scuth of southwest corner of Coast Guard Station building, lO feet northwest of southwest corner of Coast Guard boiler room building, and ½ foot east of west edge of sidewalk. Elevation: 15.97 feet above mean lower low water.

BENCH MARK 3 (1929) is a standard disk, stamped "3 1929," opest in top of southeast side of concrete sidewalk between coast Guard Station building and boiler room building. It is 44 feet north of northeast corner of boiler room building, 26% feet south of southeast corner of Goast Guard Station building, and about \$ foot west of east edge of sidewalk. Elevation: 15.35 feet above mean lower low water.

Mean lower low water at Point Reyes, Drakes Bay is based on 7 months of records, June 1 - December 26, 1929, reduced to Elevations of other tide planes referred to this datum are as follows: mean values.

Feet	₩±₩±0 ₩000	5
	r hig water level ater	10.0

The estimated highest water level to the nearest half. foot is 8½ feet above mean lower low water. The estimated lowest water level to the nearest half foot is 2½ feet below mean lower low water.

CALIFORNIA I-24

DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY Ď.

LS-D

1981 Page 5

FIDAL BENCH MARKS

Bolinas, Bolinas Lagoon Lat. 37º 54'.6; Long. 122º 40'.9

"BENCH MARK TIDAL 1 (1947) is a standard disk, stamped "BOLINAS TIDAL 1", set flush in top of concrete wing wall at north end of wooden bulkhead at base of bluff on west side of entrance to Bolinas Lagoon. It is 103 feet south of south end of heavy riprap at end of street leading from village of Bolinas, 0.3 mile east along street from post office 52 yards south of end of street, 5½ feet higher than beach, and ½ foot west of east end of concrete wall. Elevation: 10.38 feet above mean lower low water.

BENCH MARK TIDAL 2 (1947,) is a standard disk, stamped "BOLINAS TIDAL 2", set flush in top of east concrete curb at entrance to U. S. Coast Guard Station. It is il feet from inner line of walk along village street and 18½ feet east of station flagpole, 4½ feet east of center line of concrete sidewalk, 1½ feet north of east end of bottom concrete step, and 1 foot above sidewalk. Elevation: 10.23 feet above mean lower low water.

BENCH MARK PARADISE VAILEY (1947) is a 2½-inch brass cap, stamped "PARADISE VAILEY 1947", set in top of concrete post. flush with ground, on grassy delta at mouth of Paradise Valley on west side of Bolinas Lagoon and 15 feet northeast of ruins of old fence. It is about \$\frac{1}{4}\$ mile north of Bolinas Union School, 170 yards northeast of road, 52 yards northwest of northwest bank of Pine Gulch Creek, and \$\frac{4}{15}\$ feet northeast of telegraph pole No. 396. Elevation: 6.54 feet above mean lower low water.

Mean lower low water at Bolinas, Bolinas Lagoon is based on 71 high waters and 72 low waters, April 16 - May 23, 1947, reduced to mean values, Elevations of other tide plants referred to this datum are as follows:

04.4,	8	o c	2 0	0
higher high water	high water	tide level	low water	lower low water
Maan	Mean	Mean	Mean	Mean

foot 1s 7% feet above mean lower low water. The estimated lowest water level to the nearest half foot is 2% feet below mean lower estimated highest water level to the nearest half low water,

2.93 2.93 2.80

CALIFORNIA 1-25

U. S. DEPARTNENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDAL BENCH MARKS

Point Bonita, Bonita Gove, Golden Gate

BENCH MARK 2 (1917) is a standard disk, stamped "BONITA rock shore near high water line and 41 feet south of south edge of wharf directly in front of Goast Guard boathouse. It is of southeast edge of rock. Elevation: 11.05 feet above mean low water.

EENCH MARK 2A (1925) is a standard disk, unstamped, set in of high bluff and 171 feet south of south side of wharf. It is 130½ feet south of Bench Mark 2, and about 6 feet higher than beach. Elevation: 15.57 Leet above mean lower low water.

BENCH MARK 3 (1917) is a standard disk, stamped "BONITA large flat black hoto of mass of concrete poured on top of 53 feet northeast of northeast edge of wharf. It is 49½ feet east of east corner of boathouse, and about 3 feet higher than high water line. Elevation: 9,49 feet above mean lower low water.

Mean lower low water at Point Bonita, Bonita Gove, Golden to mean values. Elevations of records, February - May 1935, reduced datum are as follows:

٠	Water			Water
٠	higher high	high water	low water	lower low wa
	Mean h			Mean 1

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Feet

The highest estimated water level to the nearest half foot level to the nearest half foot level to the nearest half foot is 2½ feet below mean lower low

USCOMM-CGS-DC

CALIFORMIA PART I Northern California

U.S. DEPARTHENT OF COMMERCE NATIONAL OCEANIC AND ATHSOPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY The difference between National Geodetic Vertical lower low water (MLLW) for each location where the tidal Geodetic Network have been connected by differential levels is given below.

Bench mark elevations above National Geodetic Vertidiference from the published elevations above mean lower

z.			
·	•	f	
Locality	Crecent'City Eureka	Shelter Cove Sand Point, Tomaine P.	Ę
Index Map Number	러라	17	87 8

IGVD-MLLW

Feet

•	f					•	
Crecent City Eureka	Shelter Cove Sand Point, Tomeles B	Tomales, Tomales Bay Hamlet, Tomales Bay	Blake Landing, Tomales Bay	Inverness, Tomales Bay Point Reyes, Drakes Bay Bolinse Bay	Point Bonita, Golden Gate	Princeton, Halfmoon Bay Santa Cruz, Monterey Bay	Carnel Cons Cons.

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CONTROL'DATA	by the GEODETIC: SURVEY:
VERTICAL	NATIONAL

PAGE NO.

NGVD 1829

	[Heters] [Feet] 11.370 11.370 11.371 57.305 11.371 BETROYED 37.814	HGZ L-17307 FIRST-ORDER 19.063 62.543 17.425 57.169 10.588 34.737	HGZ L-21016 FIRBY-ORDER 17.892 58.701	HGZ I—18119 First-Order 19.541 64.111
LINE 102 (Confilmed) ADJUSTREET OF 10-27-1965 C. Symns 02-09-65 03-26-65 BENCH NARK A 832 B 148 BM 129.40 (SPCO) C 148 Y 7 J 878 R 874 ADJUSTREAT OF 10-27-1965 C. Symns 02-09-65 03-26-65 BENCH NARK	N 888 N 877 N 877 N 877 N 877 N 946	ADJUSTWENT OF 1959 G. Symns A 56 (C OF P) Z 946 A 44 (C OF P)	Advustyery of 05-10-1967 C. Symns 01-27-67 04-03-67 V 175	ADJUSTNERY OF 1961 C. Bymns 1960 37 (A CO)
HGZ L-20139 FIRST-ORDER ADVISCED FIEVARION (Moters) (198.7) 139.306 457.040 142.012 457.040 142.012 165.306 117.753 117.753 118.307 111.417 105.20 1105.20 110.270 361.572	HGZ I-20285 FIRST-ORDER 107,344 352.178 102.733 337.050	HGZ L-20139 FIRST-ORDER 102.787 337.227 HGZ L-20285 FIRST-ORDER	102,883 337,542 Insginovido 92,244 202,637 84,674 277,801 81,652 267,887	HGZ L-21019 FIRST-ORDER 79.511 260,862
(CONTINUED) ADJUSTMENT OF 1965-66 C. Symns 02-09-65 03-26-65 BENCH MARK LIVERHORE EAST BASE RM 2 LIVERHORE EAST BASE AZI S 832 L 8	AbJUSTMENT OF 07-29-1965 C. Symna 06-23-55 07-06-65 H 832 C 8	C. Symna O2-09-65 03-26-65 G 832 A DJUSTWENT OF 07-29-1965 C. Symna O6-23-65 07-06-65	F 4475 B 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Adjustremy of 1967 C. Symis 03-22-67 04-04-67 C 832 143 (UGGS)

Your client is a civil engineer who asks you to obtain an aerial topographic map for use in the design of an 80 acre subdivision. (See figure)

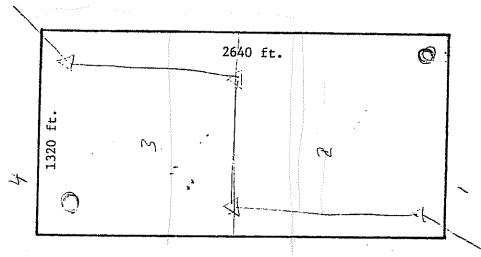
The vertical accuracy required for the map is ±0.25 foot on 90% of all spot elevations checked.

MAR 1' CONTROL INTERIAL

- A. Describe in detail the economic considerations which you would make in selection of an aerial sub-contractor.
- B. Show the locations on a similar sketch as shown below on your answer sheet of the horizontal and vertical premarks which you would set. You must assume a commonly used photogrammetric mapping and control procedure and clearly list your assumptions.
- C. What survey methods and accuracies would you utilize for the control work to meet the required accuracy? What size panel would be required?
- D. What basic contour interval would be required on the map? Should the mapping contours have the same vertical accuracy as the spot elevations?
- E. Explain how you would check the vertical accuracy of the map after delivery to you by the aerial sub-contractor.

NOTE: The below sketch is to be duplicated on your answer sheet showing such horizontal and vertical control required as a result of your analysis of this problem.

Marine C. Marine



▲ Horizontal & Vertical Control

O Vertical Control Only

NOTE: Symbols added by examinee.

(12.5 POINTS) PROBLEM D-3

REQUIRED

1600.820

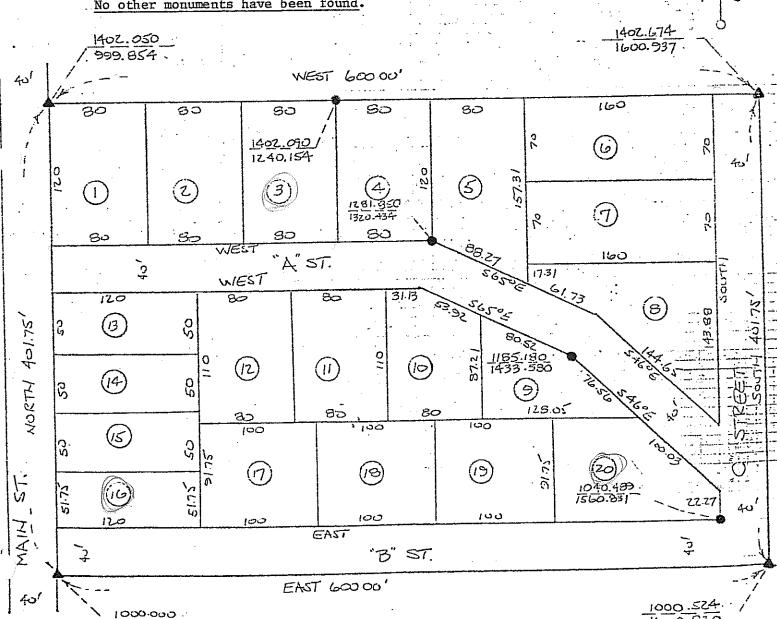
- Shown hereon is the original map of "Heart Acres". You have been asked to survey and monument Lots 3, 16 and 20. Calculate from coordinates given, the bearings and distances for these lots. ON THE ATTACHED SHEET, (WHICH IS TO BE REMOVED AND SUBMITTED WITH YOUR ANSWER SHEET) show the bearings and distances for all lines required to survey the lots in question.
- Is a Record of Survey or a Corner Record required? State the reasons for your answer.

Dimensions shown are record per "Heart Acres" and are complete. Coordinates shown are "your" measured values.

- ▲ indicates a found original boundary monument.
- indicates a found original lot corner.

No other monuments have been found.

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PROBLEM D-6 (5 POINTS)

WORK D-6 OR D-7 NOT BOTH

Calls to topographic features returned by the original U.S. Government Surveyor in his field notes are often persuasive evidence which can be used in the re-establishment of obliterated public land corners.

Discuss in detail what weight you would give to topographic calls from the original notes in considering a missing corner as lost. Use an example of your own choosing to illustrate your reasoning.

PROBLEM-D-7 (5 POINTS)

WORK D-6 OR D-7 NOT BOTH

The professionally licensed Land Surveyor is involved in diversified work throughout the surveying, mapping, and engineering field. However, the license allows the Professional to become involved with the <u>division of land</u> in the State of California that means working within the provisions of the Subdivision Map Act and local agency ordinances. Answer the ten questions with short precise sentences. List Chapter, Article, and Section numbers from either the 1980 or 1981 Subdivision Map Act to substantiate your answers.

<u>Be</u>	sure to write your answer on the separate answer sheet provided.
1).	In April, 1975, the Act was recodified from the Business and Profession Code to the Ovy Code, Division 2.
Ma.	"Local Agency" means
) 3.	"Subdivision" includes a condominium project as described in Section $\frac{1350}{1000}$ of the Civil Code. $\frac{1350}{1000}$
4.	The Conditions under which contiguous parcels or units of land merge is covered by what Chapter, Article and Section of the Act?
5.	In the event that an owner's development lien has been created pursuant to Chapter 3 of Part 23 of the Education Code what must be done?
6.	A Parcel Map shall show the location of each parcel created and its relation to
7.	An approved or conditionally approved tentative map shall expire 24 months after approval, or after such additional time as may be prescribed by local ordinance, not to exceed an additional 12 months.
8.	There may be imposed by local ordinance, a requirement of dedication or irrevocable offer of dedication of land within a subdivision for different purposes. Irrevocable offers may be terminated as provided in subdivisions
9.	The surveyor shall set sufficient monuments to conform with Section 8771 of the Business and Professions Code and any requirements of local ordinance If the original surveyor is replaced by another, how may the former release his obligation to set the final monuments?
10.	Subdivided lands may be merged and resubdivided without reverting to acreage

66ACP, 2034

under what conditions?

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The monuments reflected in sketch are described as follows:

- Found old rock mound accepted as south 1/4 corner of Section 13 and southeast corner Lot 6 per plat of "Slippery Acres".
- Found 1/2" rebar tagged LS 3000.
- Found 1/2" rebar tagged LS 3000.
- 4. Found old rock mound. Accepted as southwest corner Section 13.
- 5. Found USGLO Brass Cap in 2" IP and stamped for West 1/4 corner Section 13.
- 6. Found USGLO Brass Cap in 2" IP and stamped for North 1/4 corner Section 13.
- 7. Found 1-1/2" IP tagged LS 4000 at northwest corner of "Rustic Hills Subdivision" which is a subdivision of the North 250' of West 1/2 of Southeast 1/4, Section 13, Township 10 North, Range 10 East, M.D.M.
- 8. Found USGLO Brass Cap in 2" IP and stamped for East 1/4 corner Section 13.
- 9. Found 1-1/2" IP tagged LS 4000 at southwest corner of "Rustic Hills Subd."
- 10. Found 1" pipe tagged LS 100.
- 11. Found 1/2" rebar tagged LS 3000.
- 12. Found 1/2" rebar tagged LS 3000.
- 13. Found I" pipe tagged LS 100.
- 14. Found 1/2" rebar tagged LS 3000.

The following information is also known:

- Cache Creek is a non-navigable creek.
- \gg 2. Lazy River is a navigable, non-tidal river.
 - 3. "Rustic Hills Subdivision" was originally surveyed by LS 4000.
 - 4. "Slippery Acres" was originally surveyed by LS 100 and resurveyed by LS 3000.
 - 5. Hill Road of "Slippery Acres" was vacated by the County of Extra 5 years prior to your survey.
 - 6. The Grant Deed granting your client his property reads as follows:

Parcel 1: All that portion of the southwest one-quarter of Section 13, T.10N., R.10E., M.D.M. lying south of Lazy River and east of Cache Creek. Excepting therefrom any portion of "Slippery Acres" subdivision recorded in the office of the Recorder of Extra County in Book 2 of Maps at Page 8 lying within the southwest one-quarter of Section 13, T.10N., R.10E., M.D.M.

Parcel 2: Lot 4 of "Slippery Acres" Subdivision, recorded in the office of the Recorder of Extra County in Book 2 of Maps, at Page 8.

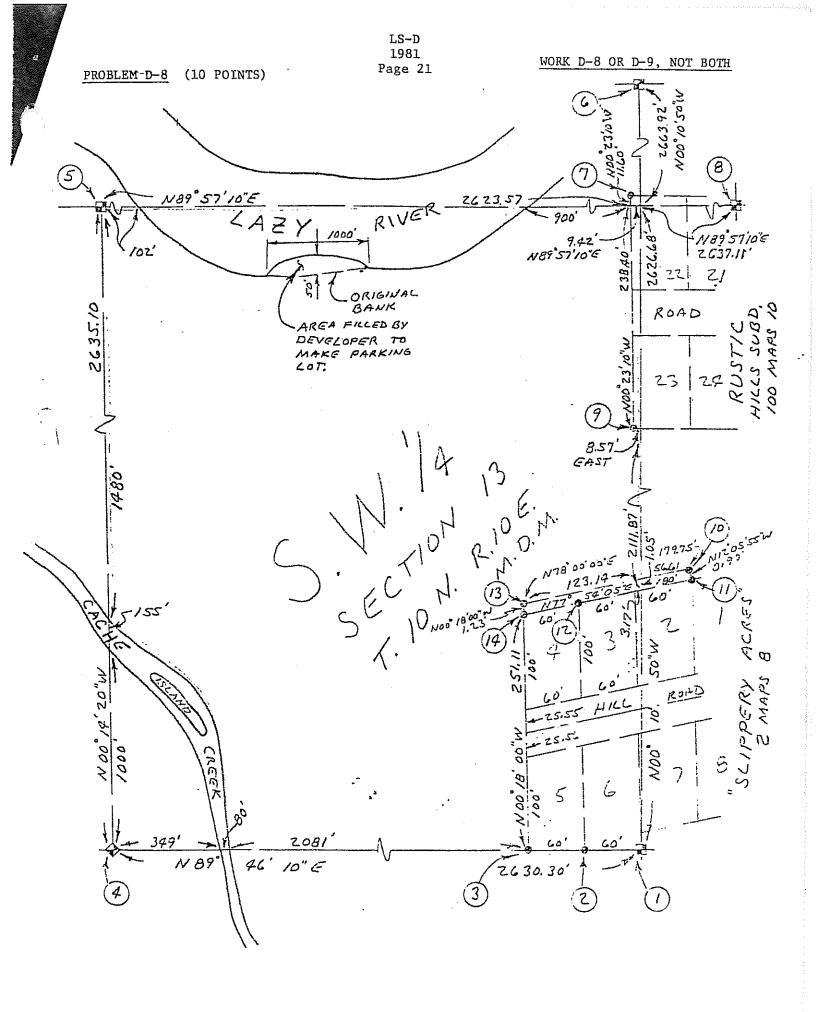
continued on reverse....

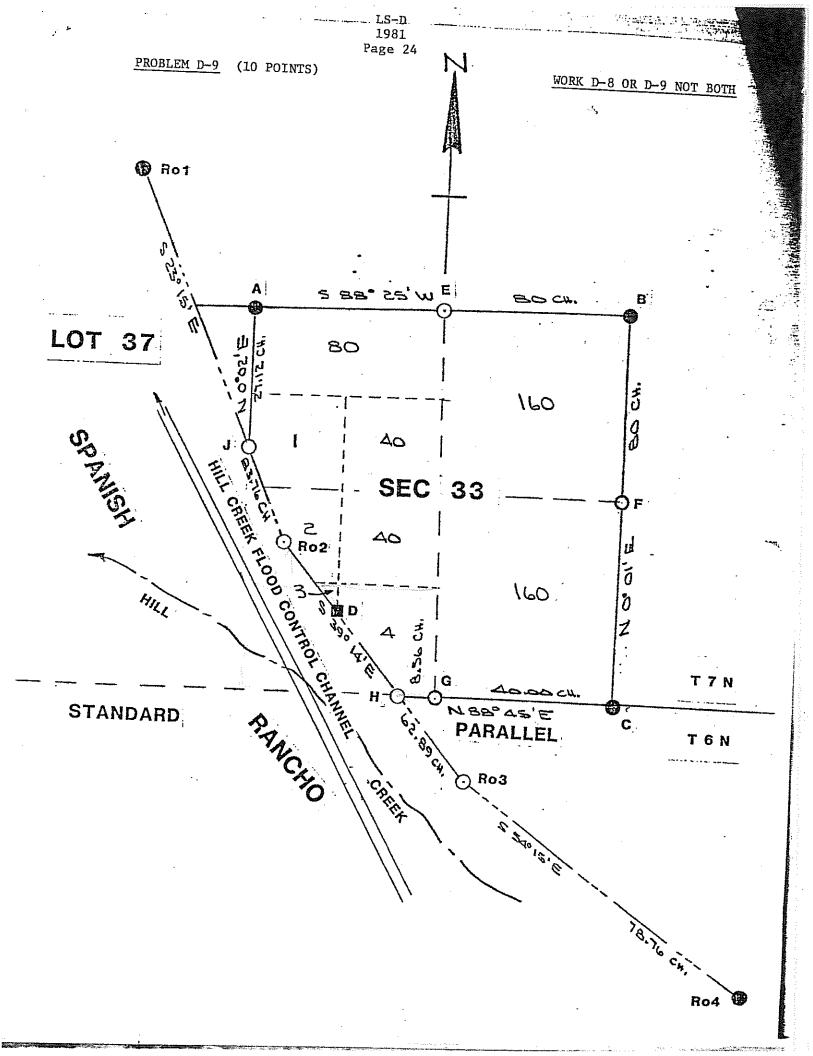
PROBLEM D-8 (10 POINTS)

WORK D-8 OR D-9 NOT BOTH

QUESTIONS:

- A. Outline the boundary of your clients property ON THE ATTACHED SKETCH (WHICH IS TO BE REMOVED AND SUBMITTED WITH YOUR ANSWER SHEET) and state the reasons for your determination for each boundary segment. Begin your explanation on the south boundary and continue your discussion around the boundary in a clockwise direction.
- B. Based on the facts stated on the preceding page, what is the status and possible claim of title to the island in Cache Creek? State your reasons.
- C. Based on the facts stated on the preceding page, what is the status of and possible claim of title to the filled land in Lazy River? State your reasons.





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PROBLEM D-9 (10 POINTS)

WORK D-8 OR D-9 NOT BOTH

QUESTIONS

- 1. Explain how you would survey and identify the land as described.
- 2. What corners require monumentation?
- Is a Record of Survey required? Explain your answer.
- 4. Would a Corner Record be sufficient? Explain your answer.