

Showing Easements on the Web: An Overwhelming GIS Project Made Manageable

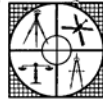
Bette Smith
GIS Analyst



At the ESRI User Conference



Background



Ray Carlson & Associates, Inc.
LAND SURVEYING

Boundary & Topographic Surveys
Parcel & Subdivision Maps
Construction
Consulting
Court Exhibits

Documents



19

OFFICIAL
SONOI
BERNIC

WHEN RECORDED RETURN TO
CITY ENGINEER'S OFFICE
P. O. Box 1678
Santa Rosa, CA 95402

AT REQUEST OF:
06/14/1991
FEE: \$.00
TT: \$.00

EXHIBIT "A"

GRANT DEED

John T. O'Bryan and Anita J. O'Bryan as Trustees of
Trust and Charlotte M. Butterworth
GRANT(S) TO
THE CITY OF SANTA ROSA, A MUNICIPAL CORPORATION
All that Real Property situated in the County of SONOMA, State of CALIFO
See Attached Exhibit A

Being a portion of the lands of John T. O'Bryan and O'Bryan, Trustees of the O'Bryan Family Trust as des that deed recorded as Document No. 85-050969 of Official Sonoma County Records, and further being a portion of shown on that "Map of Home Acres Addition to Santa Rosa" Book 30 of Maps, at Page 3, Sonoma County Records, sai being more particularly described as follows:

PARCEL 1

Commencing at a 2" brass disk in monument well marking point in the centerline of Mendocino Avenue; thence degrees 05 minutes 26 seconds East, 36.59 feet to the corner of the abovementioned lands of O'Bryan Trust; the the westerly line of said lands, being the easterly rig line of Mendocino Avenue, South 02 degrees 03 minutes 5 West, 52.76 feet to the point of beginning of t described parcel; thence continuing South 02 degrees 0 56 seconds West, 28.12 feet to the southwest corner of s of the O'Bryan Trust; thence along the southerly lin lands, being the northerly right of way line of Dexte North 87 degrees 41 minutes 13 seconds East, 27.93 fee North 42 degrees 37 minuets 05 seconds West, 39.72 fe point of beginning.

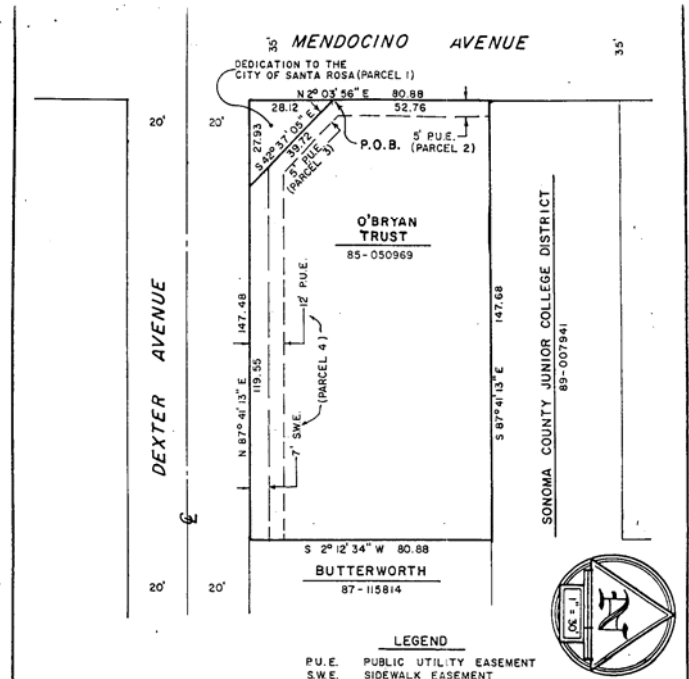
Containing 393 square feet, more or less.

PARCEL 2

Being an easement for Public Utilities purposes, 5.00 width, lying easterly of and contiguous with the westerl the abovementioned lands of the O'Bryan Trust, and exte the northerly line to the southerly line of said lands.

PARCEL 3

Being an easement for Public Utilities purposes, 5.0 width, lying northeasterly of and contiguous northeasterly line of the above described Parcel 1, and from the westerly line to the southerly line of mentioned lands of the O'Bryan Trust.



AUTHORITY - USE PERMIT

OWNER AND MAILING ADDRESS	PROPERTY AREAS	CITY OF SANTA ROSA
ANITA & JOHN T O'BRYAN, 1161 ROBERTSON WAY SACRAMENTO, CA. 95818	TAKE 393 SQ.FT. REMAINDER 11,243 SQ.FT.	RIGHT OF WAY, PUBLIC UTILITIES EASEMENTS, & SIDEWALK EASEMENT TO THE CITY OF SANTA ROSA.
A.P. No. 12-201-21 O.R. No. 85-050969	TOTAL 11,936 SQ.FT. CITY ACQUISITION DEED	SCALE: 1" = 30' DATE: AUG. 1990 APPROVED: [Signature] FILE NO. R-3355

INDIVIDUAL ACKNOWLEDGMENT

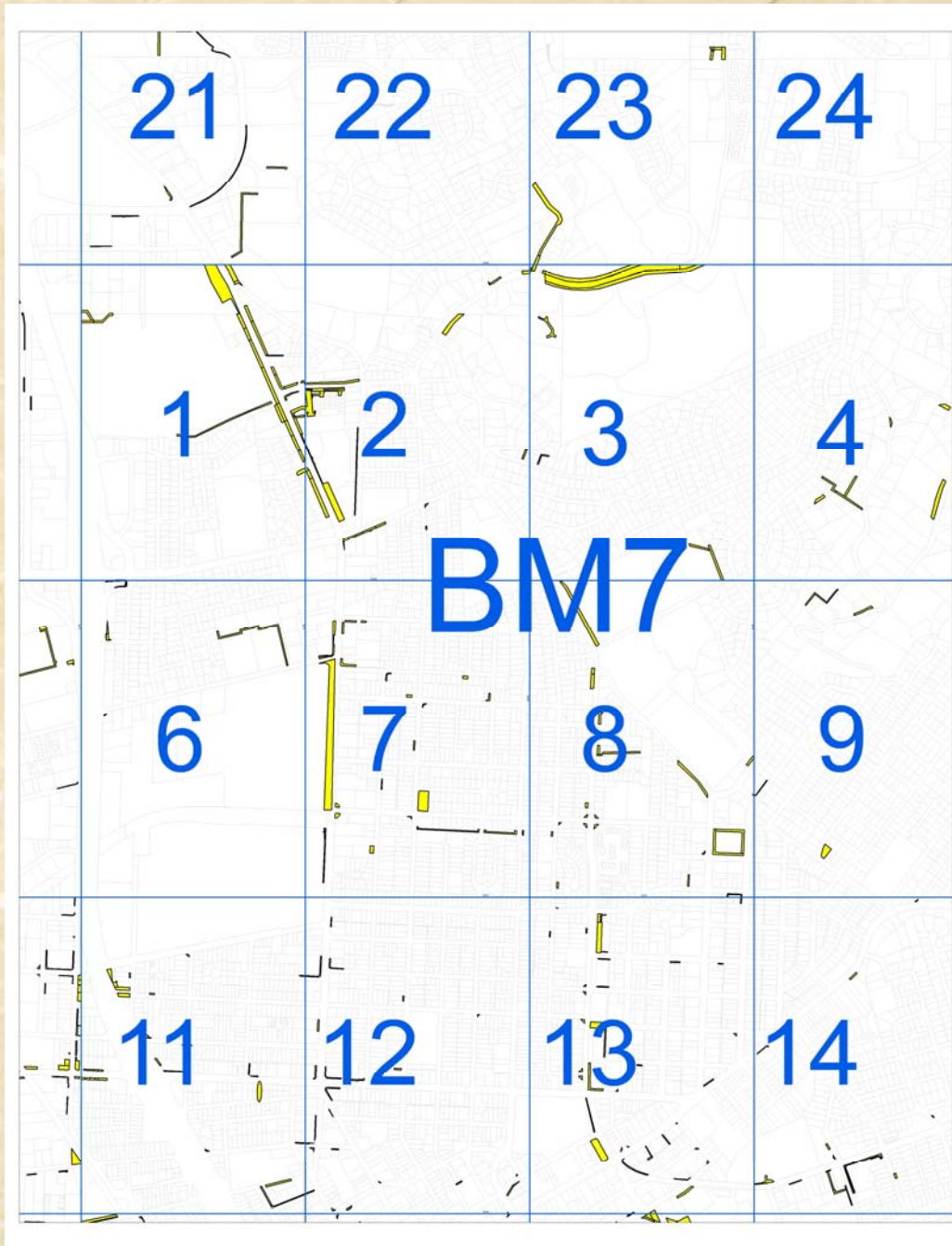
State of California }
County of Monterey } ss.
On this 14th day of June, 1991, Kathie M. Crary the undersigned Notary Public, do hereby certify that Charlotte M. Butterworth is personally known to me and proved to me on the basis of s to be the person(s) whose name(s) within instrument, and acknowledged WITNESS my hand and official seal.
Notary's Signature: Kathie M. Crary
OFFICIAL SEAL: KATHIE MC CRARY, NOTARY PUBLIC-CALIFORNIA, MONTEREY COUNTY, My Comm. Exp. Aug. 18, 1994.
ATTENTION NOTARY: Although the information requested below is OPTIONAL, it is requested that you provide it to prevent this certificate from being voided.
Title or Type of Document: Grant
Number of Pages: 2 Date of Doc: 06/14/1991
Signer(s) Other Than Named Above: _____
THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT:

By: [Signature]
John T. O'Bryan
By: [Signature]
Anita J. O'Bryan
By: [Signature]
Charlotte M. Butterworth

ATTACH

REFERENCE: R- 3355
A.P.N. 12-201-21
Dated 10-JUN 1991

807 St. Helens Avenue • Santa Rosa, CA 95404 • (707) 528-7649



Identify Problems & Solutions

- Everything is paper.
- Research is cumbersome.
- Deeds need to be accessible to all departments
- Input into live database
- Quality Control for historic records



What is the goal?

To show location of easements on the GIS Maps website. To be able to click on an easement and open the scanned document at the desktop and print it out if needed.



What makes a project successful?

- An influential project champion
- Realistic expectations
- Making sure users are in agreement



Who benefits?

- Better customer service
- Research on legal documents can be performed at the desktop
- Better system of retention
- Used by Public Works, Utilities, Community Development, Legal, Administrative Services
- Emergency Preparedness



First Steps

- Meet with users
- Meet with key supporters
- Make a plan
- Begin writing procedures
- Focus on the goal



Considerations

- Polygons or points related to parcels
- Graphic depiction of location vs. survey accurate metes and bounds traverse
- Scanned documents – in house or outside vendor
- Maintenance of layers to provide the most current information
- Getting input from users
- Asking for help



Planning Phases

Phases to this job:

- 1) Converting block attribute data to object data in CAD drawing files that have been drawn. Scanning documents to link to database. Exporting polygons with data.
- 2) Getting new easements scanned and drawn into CAD with object data.
- 3) Scanning and georeferencing old paper maps and using them to trace easement polygons.



Communication & Documentation

- Plan out a model using Model Builder or at least write everything down
- Write the goal or objective and include it in all procedures
- Communicate to all stakeholders



Going from CAD to Shapefile

- Currently – Combine 14 tiles into 1; reproject; then export to shapefile
- Future - Set up a routine using FME software to do this weekly
- www.Safe.com



QA/QC

- In shapefile format, can easily check entries in the database

The screenshot displays the ArcMap interface with a map showing various easement polygons. A yellow polygon is highlighted on the map, corresponding to the selected record in the attribute table below. The attribute table has the following data:

FID	Shape	DOC_ID	R_ID	QA_QC
754	Polygon	1991-0014661	R-3332	
753	Polygon	1991-0014662	R-3331	
181	Polygon	1991-0040088		
690	Polygon	1991-0053170	R-3347	
472	Polygon	1991-0055018	R-3352	
1034	Polygon	1991-0057058	R-3355	
1152	Polygon	1991-0068649	R-3365	
953	Polygon	1991-0070197	R-3368	
247	Polygon	1991-0070198	R-3369	
584	Polygon	1991-0118553	R-3403	
473	Polygon	1991-0128837	R-3407	
474	Polygon	1991-0128837	R-3407	
1093	Polygon	1992-0004431	R-3411	
1094	Polygon	1992-0006554	R-3413	
579	Polygon	1992-0007761	R-3414	
580	Polygon	1992-0007762	R-3415	



How it looks


CITY OF SANTA ROSA GIS MAP SITE

SRG IN OUT PRV ALL PAN SEL CLR PRT LBL REP HLP

- Urban Boundary
- Street Labels
- Street Centerlines
- Rail
- Creeks
- Water Bodies
- Ranchos
- Recorded Documents
- Right of Way
- Easements
- Annexations
- Pending Development by Q
- Active Development
- Benchmark Network
- Coordinate Network
- Parcels
- Engineer Areas
- Grading Inspector Areas
- Parks
- City Limits

1991-01
DEXTE
Drawing
Catego
Date: 1

Double click on the easement to bring up the Legal Document at your desktop



1991 0057058
OFFICIAL RECORDS OF
SONOMA COUNTY
BERNICE A. PETERSON

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AT REQUEST OF:
06/14/1991 10:02:03
FEE: \$.00 PGS: 5
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All that Real Property situated in the County of SONOMA, State of CALIFORNIA, and described as follows:
See Attached Exhibit A

INDIVIDUAL ACKNOWLEDGMENT

State of California } On this the 10th day of May 1991, before me,
County of Monterey } ss. Kathie McCrory
the undersigned Notary Public, personally appeared
Charlotte M. Butterworth
 personally known to me
 proved to me on the basis of satisfactory evidence
to be the person(s) whose name(s) is she subscribed to the
within instrument, and acknowledged that she executed it.
WITNESS my hand and official seal.
Kathie McCrory
Notary's Signature

ATTENTION NOTARY: Although the information requested below is **OPTIONAL**, it will prevent future attachment of this certificate to another document.

THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT:

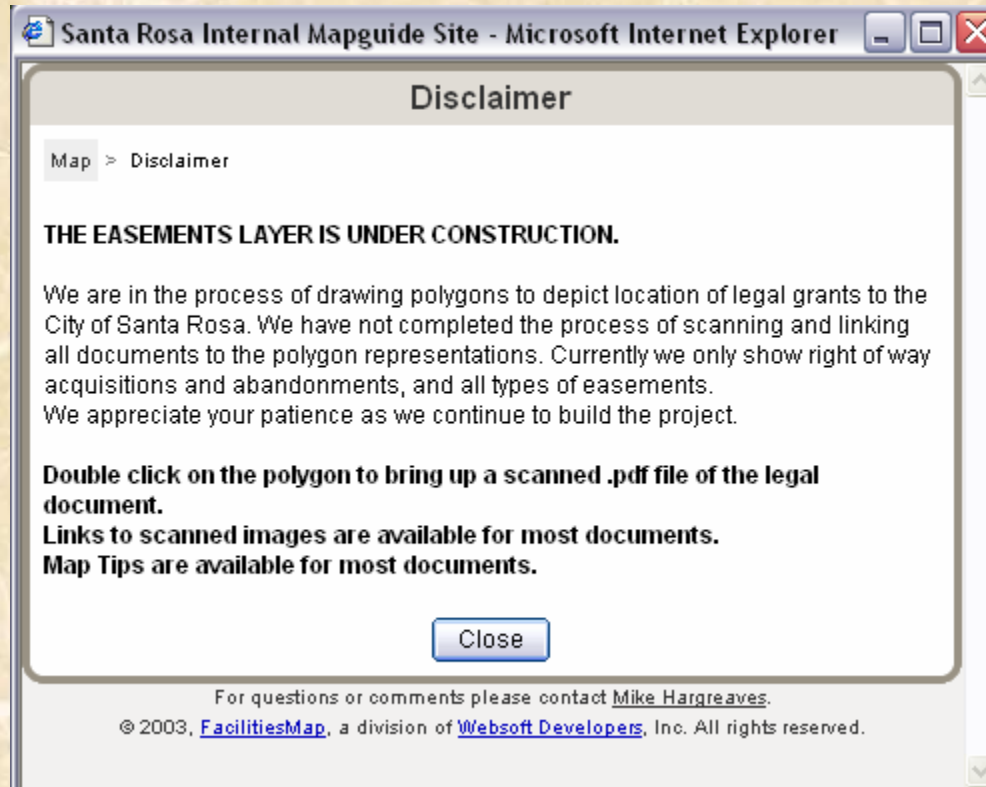
Title or Type of Document Grant deed
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REFERENCE: R- 3355
A.P.N. 12 - 201 - 21
Dated 10 - JUN 1991

By: John T. O'Bryan
John T. O'Bryan
By: Anita J. O'Bryan
Anita J. O'Bryan
By: Charlotte M. Butterworth
Charlotte M. Butterworth

ATTACH NO

Disclaimer is important



Next Steps

- Scan documents as they come back from the County Recorder to the Engineering Division
- Perform maintenance in a geodatabase instead of CAD



What did I learn?

- Bite off small chunks at a time
- Keep focusing on the goal
- Think outside the box
- Talking with colleagues about the project can generate better ways to accomplish a task
- Look for the best methods to help make the job easier
- Be flexible to change the process during the project



A big thanks to:

- ★ Dennis McCarty, Community Development
- ★ Beatriz Patino, Public Works
- Steve Allen, Community Development
- Al Musetti, Community Development
- Greg Loraditch, Community Development
- Greg Chidester, Utilities
- Bill Ostrand, Public Works
- Brad Hoffman, Public Works
- Mike Hargreaves, Information Technology
- Clif Leake, Information Technology

