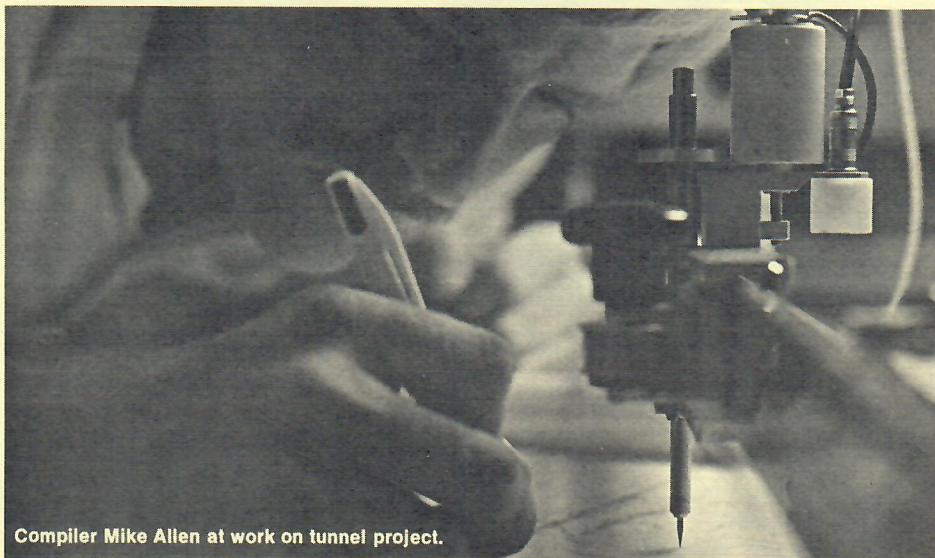




map news



Compiler Mike Allen at work on tunnel project.

SIDWELL MAPPING USED IN AWARD WINNING PROJECT

Sidwell aerial photography and topographic mapping is being used to plan and design Chicago Metropolitan Sanitary District's award winning Tunnel and Reservoir Plan (TARP).

This revolutionary project is designed to accept and convey wet weather sewage overflow normally discharged into the area's surface waterways to underground detention reservoirs and treatment plants through an enormous system of drop-shafts, tunnels and the world's largest underground sewage pumping station. After all danger from flooding has passed, the water is pumped back into existing streams to be carried away.

The huge machine used to dig the storage tunnels is known as a "mole" and costs \$600.00/foot to operate. However, with only one pass, it leaves a hole large enough to park three diesel locomotives side-by-side.

In the initial stages of the project, Sidwell prepared 1"=200' photo enlargements covering all preliminary tun-

nel routes.

Next, planimetric maps at a scale of 1"=100' containing all ground detail and property line information within the tunnel corridors were prepared. During this stage of the mapping, 2nd order horizontal and 3rd order vertical field control was established and approximately 300 concrete monuments were set.

After the tunnel alignment was finalized, construction sites were chosen. These sites are used for equipment storage and as access areas for the tunneling machines. Detailed maps containing one-foot contour intervals were prepared for these sites. The maps contained all property line information and were field edited to insure completeness.

Final mapping at 1"=20' with a one-foot contour interval is still underway for some of the hundreds of shaft sites along the miles of tunnel.

Upon completion, the TARP program will serve fifty-three local municipalities including the City of Chicago.

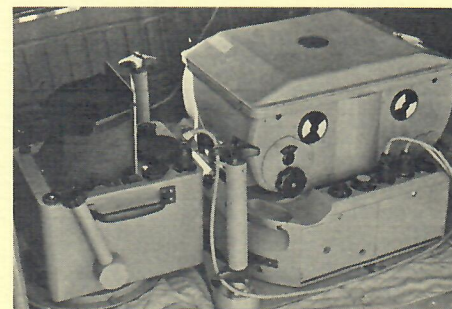
RECORD BREAKING SPRING SEASON OF AERIAL PHOTOGRAPHY

All Sidwell mapping projects begin with precision, foliage-free, aerial photography. Consequently, there are only two good times of the year when acceptable photos can be taken. These are the spring and fall seasons when the ground is free of snow and the trees do not have leaves.

Taking aerial photography involves more than merely flying over an area and "taking pictures." Detailed flight maps are drawn showing each flight line necessary to cover the project. Sidwell pilots then fly down each of these lines while maintaining a predetermined, constant altitude, heading and speed. The effects of wind and turbulence must be controlled to maintain level flight and minimize photographic errors produced by the tip and tilt of the aircraft.

Weather plays an important role in aerial photography. High winds, haze and cloud cover can produce poor image and unacceptable quality.

During this year's record breaking spring season, more than 13,000 square miles were photographed, using over 30,000 ft. of aerial film.



Aerial camera mounted in airplane.

JOE SHERBY NAMED MICHIGAN REPRESENTATIVE



Mr. Joe Sherby has joined The Sidwell Company as a mapping representative for the State of Michigan.

Joe is no stranger to the mapping business. His background includes twenty-seven years' experience in all phases of aerial photography and photogrammetry. He has worked for the U. S. Geological Survey and for the past ten years has been president of his own firm, Stereofoto, Inc., in Lansing.

Joe brings a unique combination of talents and experience to our clients.

You may contact him by calling 517/882-2868, or writing The Sidwell Company, 6071 S. Logan, Lansing, MI 48910.

PROFESSIONAL DESIGNATIONS AWARDED TO SIDWELL MANAGEMENT

The American Society of Photogrammetry has bestowed the title of Certified Photogrammetrist on Mr. R. Louis Rex,



R. Louis Rex



William H. Barg



Robert W. Meiborg

President, Mr. William H. Barg, Vice President and Mr. Robert W. Meiborg, Aerial Services Manager of The Sidwell Company.

The designation can be earned by individuals working with one of the functional areas of photogrammetry.

To be selected, each applicant must demonstrate a thorough capability in the photogrammetric field by documenting a combination of professional experience and education for a specified number of years. The above recipients have been active in photogrammetry at Sidwell for more than a decade.



**JERRY JOHNSON
SPEAKS TO CHICAGO
BAR ASSOCIATION**

Jerry Johnson, Senior Marketing Representative, addressed a recent monthly meeting of the Chicago Bar Association. Jerry's presentation explained the uses of aerial photography and tax mapping and the Commercial Mapping Services available from Sidwell in the Chicagoland area.



**DAVID ENDERS
ADDRESSES
OHIO AUDITORS**

Sidwell tax map representative, David Enders, has made recent presentations on aerial based tax maps and parcel numbering to Ohio Auditors at district meetings across the state.

Dave used a 20 minute color slide/sound program to illustrate the problems created by growing population and outdated assessment records. The program explains in detail the elements of a tax map and parcel numbering system and how it allows officials to utilize data processing for tax assessment, computation, billing and other functions.

This mapping system has been installed in Clark and Lorain Counties and is currently in progress for Warren County, Ohio.

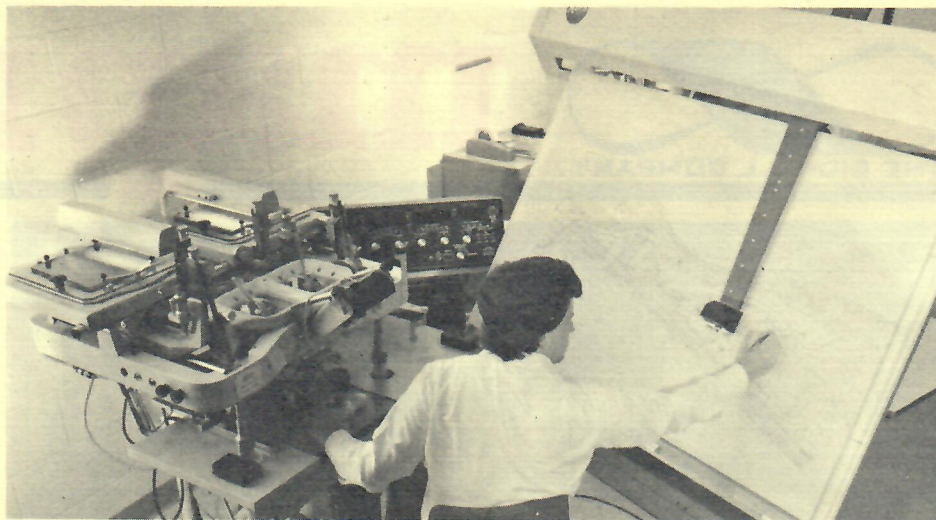


**NEW AERIAL PHOTOS OF
NORTHERN ILLINOIS**

New 18" x 18" precision aerial photographs each covering four square miles have recently been produced by Sidwell.

The areas covered include all of Cook, DuPage and Lake Counties, the northern half of Will County, the eastern half of McHenry County and townships along the Fox River in Kane County.

The new photos, called Aer-O-Maps, are precisely scaled to 1"=660' (8"=1 mile) and are foliage free for maximum viewing of ground details. The cost of each photo is \$15.00. Phone Map Order Department at 231-8200.



NEW STEREOPLOTTER TO ADD VERSATILITY . . . SAVE TIME

New automatic mapping equipment has been put into operation in Sidwell's Photogrammetry Department.

The new equipment will provide versatility and a time savings for topographic mapping clients.

Technically, the equipment is known as "the Kern PG 2-AT semi-automatic stereoplotter system." It contains a precision stereoplotter fitted with XYZ encoders interfaced to a flatbed plotting table.

With this system, a single operator can produce a complete map in ink or

pencil in less time than conventional systems.

In addition, the enlargement factor between aerial photo and finished map has been increased from 5X to 12.5X.

Also, various automatic drafting modes are available to draw standard symbolization and straight lines between plotted corners of man-made objects, another great time saver.

This is the second PG 2-AT system in use at Sidwell. The previous system was Kern's first commercial installation in the United States.

**SIDWELL EXHIBITS AT
NATIONAL CONFERENCES**

Last year Sidwell personnel attended more than twenty state, regional and national conferences held for engineers and county assessment officials.

A new Sidwell exhibit featuring unified mapping was used at three of the national meetings. These included the National Association of County Officials held in Salt Lake City, the International Association of Assessing Officers' annual conference on Assessment Administration in Atlanta and the annual Civil Engineering Conference, CEXPO, held this year in Philadelphia. Sidwell also exhibited at the annual North Central Regional Association of Assessing Officers Conference in Springfield, Illinois, May 4-7.

Meetings like these provide an opportunity for officials to become acquainted with the advantages of aerial photography and related Sidwell mapping services.

Coming up:

Sidwell will be represented at the following conferences:

Ohio County Auditors Conference, Cincinnati, Ohio, June 13-15.

National Association of Counties (NACo), Detroit, Michigan, July 24-27.

**MAP INFORMATION AVAILABLE
AT MAP ORDER DEPARTMENT**

If you're looking for a map or photo of a Chicagoland area, chances are Sidwell has it on file.

Each day Gordon and Judy in our Map Order Department receive dozens of telephone calls and letters from realtors, lawyers, surveyors and others needing map information in the Chicago area.

Some of the more popular items available include:

Aer-O-Maps

New aerial photos at a scale of 1"=660' covering four square miles. They are available for Cook, DuPage and Lake Counties and parts of Will, McHenry and Kane Counties, Illinois.

Village Street Maps

Individual street maps covering 262 Chicagoland cities and villages complete with street names and house numbering systems.

Tax Map Atlases

New updated tax maps of Cook and DuPage Counties. The maps are one-half size reductions of the official county tax maps and show complete parcel information.

Copies of tax maps are also available for many other Illinois and midwestern counties.

For further information, contact our Map Order Department at 231-8200.

FOR FURTHER INFORMATION ON ANY SIDWELL MAPPING SERVICES . . .

write The Sidwell Co., 28W240 North Avenue, West Chicago, IL 60185 . . . or phone (312) 231-0206.