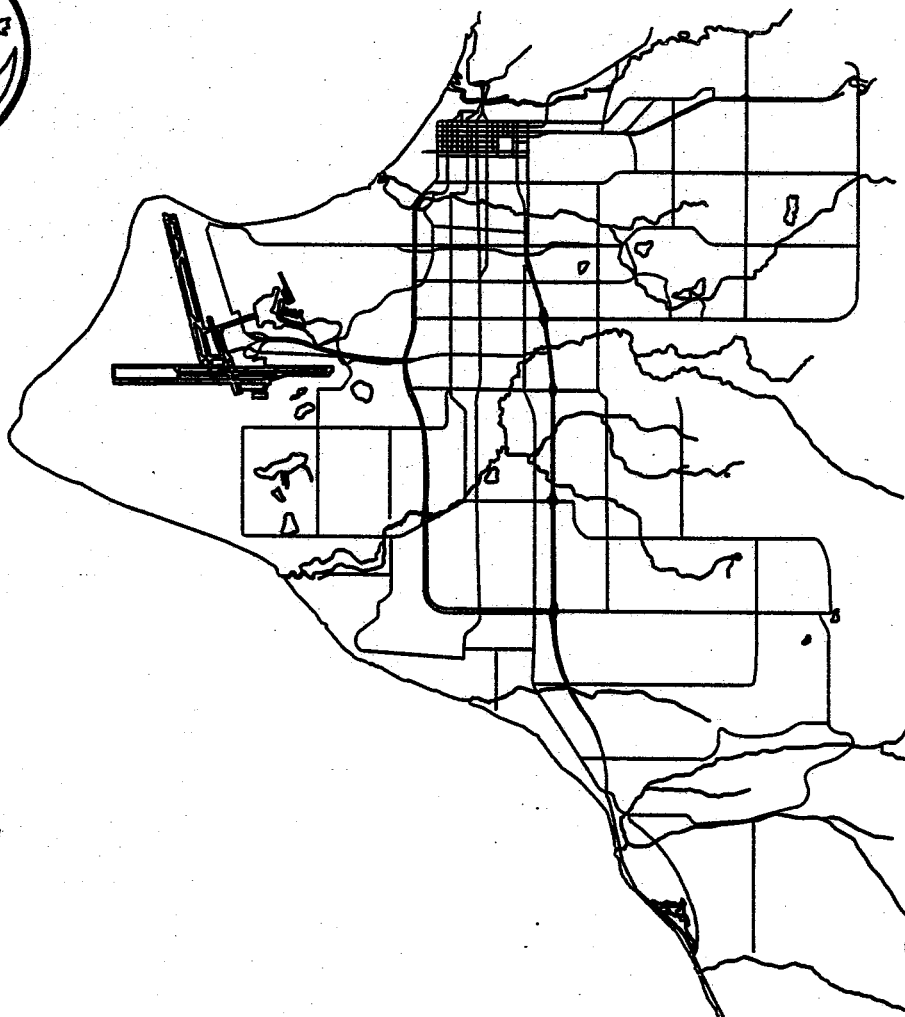


DEPARTMENT OF PUBLIC WORKS

MOA BENCHMARK NETWORK



MONUMENT INFORMATION TRACKING SYSTEM

AUTOMATED MAPPING SYSTEM

INTRODUCTION

In 1987 the Department of Public Works, Survey Section began work on a project to establish a Municipal survey control network management system. We named it the "Monument Information Tracking System" (MITS). The system is comprised of a computer database linked to Public Work's Automated Mapping System. We are now able to track existing monumentation in the Municipality on 100 scale grid maps and produce current monument status reports from monument attribute files. Through the use of the MITS we can produce detailed monumentation reports for planning control layout on large mapping projects. We can also provide current horizontal and vertical control information for preliminary engineering design studies and determine where monumentation should be established or restored for future needs. In addition, the monument attribute files contain recent state plane coordinate values for GPS stations, Federal Triangulation Stations, and information concerning a monument's applicability as a GPS, inertial, or aerial photo control point.

All the monumentation shown on the mapping pages have been field verified through a monument recovery program conducted during July and August 1987. To maximize the efficiency of the recovery program, a twenty minute time limit was allotted for each monument search. Monuments listed as unrecovered may still exist, therefore we are encouraging surveyors to conduct a thorough search before accepting it as being lost. A monument recovery form is included in these pages with the Municipal address on the backside for your use. I am encouraging every surveyor to use this form to aid the Municipality in developing a history on monumentation and participate in the management of the survey network. This is the beginning of a value added program from which everyone in the Municipality will benefit.

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USERS GUIDE

The MOA Benchmark book is divided into three sections which include two indices, Municipal grid map pages, and monument location description pages. The first index, beginning at page I-1, lists the Anchorage grid numbers in numerically increasing order, the database identifier number, vertical control monument name, elevation of the monument, the description page, and the map page showing the approximate location of the monument. The second index lists the monument name in alphabetical order and includes the same information as the first index.

The map pages begin with an Anchorage Grid Map Index showing the map pages where specific grids can be viewed. The smaller numbers within the bold lined boxes identify the grids included on the specific page. On each map page is a legend with an explanation of the symbols and numbers used on the maps. A second legend shows a box containing the grid maps of the current page and the number of the page with the grid maps immediately adjacent. Each vertical benchmark is identified with a database monument number (significant only to the computer program) and the name the monument was originally given during the establishment of the benchmark. Other monumentation shown with number identifiers indicate found section, one quarter, and one sixteenth corner monumentation. Some of these monuments may also possess a name, number, or a combination of both. This may indicate that the monument was included in a geodetic control traverse or a vertical control loop. More information can be obtained from the Municipal Surveyor's Office concerning this monumentation.

The third section is comprised of the location descriptions of the vertical benchmarks. The descriptions were updated from the previous GAAB Benchmark book to more accurately reflect changing field conditions. Wherever possible an attempt was made to tie monumentation to existing road intersections and current site addresses. Each description is organized as such; bold numbers and letters signifying the database number and monument name, the book and page of the field book showing recovery information, the recovery surveyor's name, license number, date recovered, monument condition, grid number, type of monument found, state plane coordinate values if applicable, sp z coord signifying the vertical elevation, the reference datum, maintenance date if applicable, cadastral location, status code identified by a vertical, cadastral, or geodetic control (C,G,V), the name of the subdivision, the cadastral corner or cardinal direction identification, legal description such as Lot 10, Block 2, street intersection name, dig x/y which has no user meaning, applicability for use as a photo control, GPS, or inertial point, and the criteria used to establish the monument. The monument description contains the same information as the monument recovery form to facilitate information update accuracy.

