

C216744 : MAJOR COMPUTER SCIENCE
KEY WORD: DATABASE / ROAD / HIGHWAYS

SARIT CHUISSARA : DEVELOPMENT OF DATABASE FOR RPAD INVENTORY
IN THE DEPARTMENT OF HIGHWAY.

THESIS ADVISOR : ASST. PROF. SUMETH WATCHARACHAISURAPHON,
MR. KITTIYONG ASSAWARUJANON, 183 pp. ISBN 974-584-245-1

The purpose of this research is to develop a road inventory database that meets requirements of any level management in department of highways. The scope of the research covers road history, surveying and designing, traffic engineering and analysis and research work.

The research started with studying organization and management structure, gathering management requirements by interviewing and observing, and gathering data from various sources. Then, data are analyzed and grouped for building highway data model.

The next step are converting this model to highway relational database, implementing database, and designing and implementing road information system by using Btrieve as database management system and Magic as a development tool under Novell Netware Version 3.11 operating system

The results consists of highway logical data model, relational database and road information system prototype.