A Dissertation by

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Doctor of Philosophy

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The following faculty members have examined the final copy of this dissertation for form and content, and recommend that it be accepted in partial fulfillment of the requirement for the degree of Doctor of Philosophy with a major in Applied Mathematics.

Professor Advisor Committee Chair

Bored Professor Committee Member

Another Professor Committee Member

Accepted for the College of Liberal Arts and Sciences

William Bischoff Dean

Accepted for the Graduate School

J. David McDonald Dean
DEDICATION

To my parents, my wife, my sister, my brother,
and my dear friends.
Get wisdom . . . though it costs all your possessions,
get understanding.
ACKNOWLEDGEMENTS

I would like to thank my advisor, Linda Carr, for her many years of thoughtful, patient guidance and support. Thanks are also due to Cathy John. Together their friendship and selfless role modeling have contributed to my professional development. I would also like to extend my gratitude to members of my committee, Paul Darr, Carolyn Reyner, and Mary Ann Hill, for their helpful comments and suggestions on all stages of this project. I also want to thank the Billings Corporation for funding this research, and Montgomery Publishing, Inc. for allowing the use of copyrighted material.
ABSTRACT

This research attempted to develop guidelines for selecting appropriate cross-sections for arterial highways in developing urban and/or suburban areas. The two major features of cross-section considered in this research were the non-traversable median in the form of a raised or a depressed (grass) median, and the traversable median in the form of a two-way left-turn lane (TWLTL)...

It was concluded that accurate guidelines were difficult to formulate based on accident and delay criteria only. Land use was identified as a significant parameter in determining the choice of a cross-section...
PREFACE

The first Wichita State University Graduate School manual summarizing thesis and dissertation preparation and procedures was produced in the fall of 1987. The continuing evolution of print technology and computer applications quickly resulted in the original manual becoming outdated. This latest revision reflects communication advancements and presents general guidelines for the use of word-processing (but not typesetting) software.

The guide is also designed to be a basic source of information for the preparation of theses and dissertations. It establishes the technical parameters with which all students should work, such as margins and the sequence of pages within the manuscript.

This publication was adapted from the Tennessee Conference of Graduate Schools *Guide to the Preparation of Theses and Dissertations*, Copyright 1992, Ann L. Lacava, Editor, with permission of the Graduate School of The University of Tennessee, Knoxville.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 THE FIRST CHAPTER</td>
<td>1</td>
</tr>
<tr>
<td>1.1 A Section</td>
<td>1</td>
</tr>
<tr>
<td>1.1.1 Wow a Subsection</td>
<td>1</td>
</tr>
<tr>
<td>1.2 I Am Really Organized</td>
<td>1</td>
</tr>
<tr>
<td>2 ANOTHER CHAPTER</td>
<td>2</td>
</tr>
<tr>
<td>2.1 Sectioning is like Outlining</td>
<td>2</td>
</tr>
<tr>
<td>3 VERBOSITY IS LIFE</td>
<td>3</td>
</tr>
<tr>
<td>3.1 Naming Things is Hard</td>
<td>3</td>
</tr>
<tr>
<td>4 MORE STUFF</td>
<td>4</td>
</tr>
<tr>
<td>4.1 Stuff Explained</td>
<td>4</td>
</tr>
<tr>
<td>5 MUSICAL INTERLUDE</td>
<td>5</td>
</tr>
<tr>
<td>5.1 You Are Now Bored</td>
<td>5</td>
</tr>
<tr>
<td>6 FLAGRANT MISCOMMUNICATION</td>
<td>6</td>
</tr>
<tr>
<td>6.1 This is Filler Material</td>
<td>6</td>
</tr>
<tr>
<td>7 CONFESSIONS</td>
<td>7</td>
</tr>
<tr>
<td>7.1 I Have No Idea What I am Doing</td>
<td>7</td>
</tr>
<tr>
<td>8 BLAH</td>
<td>8</td>
</tr>
<tr>
<td>8.1 How Many Does It Take</td>
<td>8</td>
</tr>
<tr>
<td>9 END OF THE LINE</td>
<td>9</td>
</tr>
<tr>
<td>9.1 Not Quite</td>
<td>9</td>
</tr>
<tr>
<td>10 NOT A NOVEL</td>
<td>10</td>
</tr>
<tr>
<td>10.1 Or Is It</td>
<td>10</td>
</tr>
<tr>
<td>11 TOC ENTRIES</td>
<td>11</td>
</tr>
<tr>
<td>11.1 Need More of Them</td>
<td>11</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS (continued)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 IF I COULD REALLY WRITE THIS MUCH</td>
<td>12</td>
</tr>
<tr>
<td>12.1 I Would Be Rich</td>
<td>12</td>
</tr>
<tr>
<td>12.2 However</td>
<td>12</td>
</tr>
<tr>
<td>12.3 Still Poor</td>
<td>12</td>
</tr>
<tr>
<td>LIST OF REFERENCES</td>
<td>13</td>
</tr>
<tr>
<td>APPENDICES</td>
<td>15</td>
</tr>
<tr>
<td>A ANCILLARY INFORMATION</td>
<td>16</td>
</tr>
<tr>
<td>B MORE INFORMATION</td>
<td>18</td>
</tr>
</tbody>
</table>
CHAPTER 1
THE FIRST CHAPTER

There is no consensus regarding the precise course of events which led to the passage of the Interstate Commerce Act in 1887 or the formation of the Interstate Commerce Commission in 1889.

1.1 A Section

There are, however, a number of prominent factors which somehow worked together to produce these measures. First, the agricultural community, feeling that unfair railroad pricing practices had contributed to declining real farm incomes, lobbied hard for both state and federal regulation of rail rates [1]. There is also the common view that rail carries favored federal regulations as a means of curbing destructive competition. However, Smith [1] suggests that, while there was a desire on the part of the lobbyists to.

1.1.1 Wow a Subsection

Prudent analysis suggests that there are elements of truth in each approach. In any case, the act to regulate commerce and to establish the Interstate Commerce Commission was passed into law in 1887. Table 1 summarizes the regulated activities and enforcement devices attributed to this legislation.

1.2 I Am Really Organized
CHAPTER 2

ANOTHER CHAPTER

2.1 Sectioning is like Outlining
CHAPTER 3

VERBOSITY IS LIFE

3.1 Naming Things is Hard
CHAPTER 4
MORE STUFF

4.1 Stuff Explained
CHAPTER 5
MUSICAL INTERLUDE

5.1 You Are Now Bored
CHAPTER 6

FLAGRANT MISCOMMUNICATION

6.1 This is Filler Material
7.1 I Have No Idea What I am Doing
CHAPTER 8
BLAH

8.1 How Many Does It Take
CHAPTER 9
END OF THE LINE

9.1 Not Quite
CHAPTER 10

NOT A NOVEL

10.1 Or Is It
CHAPTER 11

TOC ENTRIES

11.1 Need More of Them
CHAPTER 12
IF I COULD REALLY WRITE THIS MUCH

12.1 I Would Be Rich
12.2 However
12.3 Still Poor
LIST OF REFERENCES
LIST OF REFERENCES

APPENDICES
APPENDIX A

ANCILLARY INFORMATION

Some words.
APPENDIX A (continued)

More words.
Again with the words.
This page has a header.