



LIST OF CONTENTS

ORIGINALITY STATEMENT	iv
LIST OF CONTENTS	vi
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF APPENDICES	xiii
<i>ABSTRACT</i>	xiv
I. INTRODUCTION	1
A. Background	1
B. Objective	2
C. Scope of Study	3
D. Previous Studies	3
II. LITERATURE REVIEW	6
A. Introduction	6
B. Behavior	6
1. Factors Contributing to Road Accident	6
2. Driver Behavior	9
3. Behavioral Adaptation	13
4. The Risk Compensation Model	14
C. Traffic Calming Devices	19
1. Definition	19
2. Why Traffic Calming?	20
3. The Development	20
4. The Type	22
5. The Standard	26
III. THEORETICAL BACKGROUND	30
A. Introduction	30
B. Traffic Conflict Technique	30
1. Definition	30
2. The Development	32
3. Interaction between Road Users	32
4. The Indicator	34



5.	Traffic Conflict Characteristic	35
6.	Relation between Elementary Elements	36
IV.	RESEARCH METHODOLOGY	37
A.	Introduction	37
B.	The Site	37
C.	Data Collecting Technique	38
D.	Method Analysis	39
E.	Flow Chart	40
V.	ANALYSIS OF TRAFFIC CALMING DEVICE INSTALLATION IMPACTS	42
A.	Introduction	42
B.	Site Condition	42
C.	Road User Volume and Composition	45
D.	Impact on Safety	47
E.	Impact on Speed	73
F.	Impact on Road User Behavior	80
VI.	COUNTERMEASURES	86
A.	Introduction	86
B.	Countermeasures	86
C.	Evaluation	91
VII.	CONCLUSIONS AND SUGGESTIONS	94
A.	Conclusions	94
B.	Suggestions	97
	REFERENCES	99