
TABLE OF CONTENTS

	Page
1. EXECUTIVE SUMMARY	1
2. INTRODUCTION	2
3. TEST PROGRAM OVERVIEW	2
a. SIMULATED LRT VEHICLE	4
b. BRIDGE INSTRUMENTATION AND RESPONSE MEASUREMENT	5
c. STATIC LOAD TESTS	6
d. DYNAMIC LOAD TESTS	7
e. BASELINE READINGS	8
4. TEST RESULTS AND OBSERVATIONS	9
a. OBSERVED SITE CONDITIONS DURING TESTING	9
b. FREEBOARD LOSS ALONG SOUTH SIDE OF BRIDGE	9
c. BRIDGE ROTATION	10
d. WEST EXPANSION JOINT MOVEMENT	11
e. GLOBAL ACCELERATION	11
f. PONTOON CANTILVER TIP DEFLECTIONS	11
g. PONTOON STRESS	11
h. CONCLUSIONS ON MEASURED vs. PREDICTED RESPONSE	13
5. PONTOON GLOBAL ANALYSIS	13
a. STUDY CRITERIA	14
b. STUDY RESULTS	17
c. CONCLUSIONS	20
6. MOTION ANALYSIS AT WEST TRANSITION SPAN	20

APPENDICES

- Appendix A – Figures & Tables
- Appendix B - Instrumentation Information
- Appendix C – Traffic Count Data
- Appendix D – Site Conditions Data
- Appendix E – Data File Names and Format
- Appendix F – Homer Hadley Design Criteria Document, 1-Year Storm Forces,
Pontoon Ultimate Capacities