



Table of Contents

Executive Summary.....1

Introduction, Background & Building Overview.....2

Lighting Depth.....8

 Jeffrey & Susan Brotman Galleria.....10

 Terrace.....49

 Senator Warren G. Magnuson & Senator Henry M. Jackson Trial Courtroom.....64

 Marion Gould Gallagher Law Library –Reading Room.....81

Electrical Depth.....108

 Electrical Coordination of Lighting Design..... 109

 Transformer Analysis - Centralized vs. Distributed Transformers.....136

 Motor Control Center Design.....157

 Protective Device Coordination Study.....167

LEED Breadth170

Construction Management Breadth180

Summary and Conclusions.....185

References189

Acknowledgements.....191

Appendices.....

 Appendix A.....

 Appendix B.....

 Appendix C.....

 Appendix D.....

 Appendix E.....