

Bridge Automated Design and Drafting (BRADD) Software Training Workshop

Course Agenda

Day 1 --- Morning Session

Welcome and Introduction

- Introductions
- Training Objectives

Lesson 1 – Training Overview

- Brief Background and System Philosophy
- Available Documentation
- On-line Help
- Getting Started - Begin BRADD Execution
 - ◆ START Menu
- Creating / Accessing a Job Group File
- Creating / Accessing a Job
- Selecting an entire Job

Introduction to Training Exercises

Application Exercise 1 – “Hands-on” practice in accessing BRADD and defining different jobs.

Lesson 2 – Introduction to BRADD Input

- Overview of GUI - Review BRADD Input Architecture
- Accessing the Menus
 - ◆ Input Data
 - ◆ Navigation through Menus
 - ◆ Defaults
 - ◆ Input Ranges
 - ◆ Input Help
 - ◆ Print Input
 - ◆ Menu Tools
 - ◆ Disabled Items

Application Exercise 2 – “Hands-on” practice navigating menus.

Lesson 3 – BRADD Geometry Input

- Assumptions and Limitations
- Method of Solution - How BRADD Works
- Review of Geometry Input Menus
- Review of Sample Problem

Application Exercise 3 – “Hands-on” practice entering geometry input for a predefined job.

Lesson 4 – BRADD Superstructure and Bearing Pad Input

- Assumptions and Limitations
- Method of Solution - How BRADD Works
- Review of Superstructure Input Menus
- Review of Sample Problem

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Day 1 --- Afternoon Session

Application Exercise 4 – “Hands-on” practice entering superstructure input for a predefined job.

Lesson 5 – BRADD Traditional Abutment Input

- Assumptions and Limitations
- Method of Solution - How BRADD Works
- Review of Traditional Abutment Input Menus
- Review of Sample Problem

Application Exercise 5 – “Hands-on” practice entering a traditional abutment input for a predefined job.

Lesson 6 – Design / Quantities

- Overview – Compute Design
- Overview – Compute Quantities
- Review Output
- Saving Design Input
- Seismic Design Process
 - Assumptions and Limitations
 - Method of Solution - How BRADD Works
 - Review of Output

Application Exercise 6 – Run design and quantities for predefined job entered in previous exercises.

Day 2 --- Morning Session

Lesson 7 – Technical Questions and Revision Reports

- Export / Import Jobs
- Generate Drawings
 - Generating Graphic Files
 - ◆ Review Generate Menu
 - ◆ Review Output Files
 - ◆ Designer Checklist Spreadsheet
 - ◆ Brief Review of Drafting Method / Design File Format
 - Review of Graphics Files
 - Plotting Graphic Files
 - ◆ Using MicroStation

Application Exercise 7 – Generate Drawings for predefined job entered in previous exercises.

Lesson 8 – Review of Integral Abutment Input Menus

- Method of Solution - How BRADD Works

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- Review of Abutment Input Menus
- Review of Sample Problem

Application Exercise 8 – “Hands-on” practice entering integral abutment input for job entered in previous exercises, run design and quantities, and generate drawings.

Lesson 9 – In-Depth Design / Quantities

- Further Discussion of Method of Solution - How BRADD Works
- Error and Warning Messages / Suspect Input

Application Exercise 9 – Verify calculations and quantities from predefined job entered in previous exercises.

Review of Application Exercise 9

Lesson 10 – Review of User-Defined Superstructure Input Menus

- Superstructure and Substructure Input Instruction

Day 2 --- Afternoon Session

Application Exercise 10 – Enter input for user-defined superstructure, compute designs, compute quantity/cost and generate drawings.

Lesson 11 – Review of Superstructure Only Input Menus

- Superstructure Only – Traditional Abutment
- Integral Abutment Superstructure

Application Exercise 11 – Enter input for integral abutment superstructure, compute designs, compute quantity/cost and generate drawings.

Evaluation

End of Workshop

Day 2 --- Optional Afternoon Session

Optional Question & Answer / Help Session

- Group Q&A and Help Session
- Individual Q&A and Help at Actual User Workstation

Note: PDHs are not awarded for attending the Optional Afternoon Session.