Jason Southwell
Honors Thesis
DAPR Substitution
Studio 4 Project
Bracken Library Redesign
Spring 2008
Advisor: Janet Fick
Abstract

This project is a culmination of two semesters and two courses worth of work. It is a hypothetical redesign of Bracken Library. It uses the issues of sustainability, new design trends, and current campus trends. The project encompasses the programming, schematic, construction and working document phases of design. In the project there are visual boards, construction documents, finish and furniture manuals, and schedules.

Acknowledgements:

Thank you Janet Fick for being my advisor, Thelma Florez for being my instructor, and my parents for supporting me and allowing me to get this far.
Table of Contents

Bracken Library Redesign

Spring 2008

Honors Thesis DAPR Substitution Synopsis

Section One: .................................................................Reflection paper
Section Two: ...............................................................Program Addendum
Section Three: ...........................................................Schematic Boards
Section Four: .............................................................Midterm Boards
Section Five: ..............................................................Construction Documents
Section Six: ...............................................................Final Presentation Boards
Section Seven: ..........................................................Furniture Manual
Section Eight: ............................................................Finish Manual
Section Nine: .............................................................Lighting Manual
Section Ten: ..............................................................Schedules
  Finish Schedule
  Furniture Schedule
  Lighting Schedule
  Door Schedule
Section Eleven: .........................................................Specifications
  Complete Specifications List
  Paint Specification
  Resilient Flooring Specification
  Wood Flooring Specification
Section One:

Reflection paper
Introduction

This project was a yearlong project that challenged me to take a hypothetical space and redesign it as if it were a real design project. The project was split across two classes. The first part was completed in programming this was information gathering and problem seeking. The second part was completed in studio class. This included design development, contract document writing, and creating construction documents. The process was designed to show design students what it takes to complete a project. It can still only give a narrow scope. It cannot not show us how you handle working with contractors during the build phase or how to do punch list once the project is completed and it does not offer us the chance to interact with architects and engineers. However, it gives us the widest scope in a class setting of what it would be like to follow a project from start to end. It did a good job of pointing out work that I never knew went into a project or at least had never considered doing in a job.

Background on the Project

My project was the first floor of Bracken library here on campus. My design focused on better incorporation of technology, the buzz words of Ball States new education redefined image, and creating a second home for students. Just a little background information: Construction on the library was completed in 1977. The building was designed by the architecture firm of Walter Scholer & Associates out of Lafayette, Indiana with Associate Architects, The Perkins and Will Partnership from Chicago. Bracken’s namesake is credited to Alexander M. Bracken. Mr. Bracken was a Muncie industrialist and the president of Ball State’s Board of Trustees for 22
years. The library is quite possibly the top destination for Ball State students. This facility is approximately 321,800 square feet and houses five floors of university offices, classrooms, computer labs, private study suites, video viewing suites, and thousands of books, videos, and audio devices are available to students. It is estimated that more than 3,000 students visit Bracken Library each day. In January 2007, Bracken Library opened the Bookmark Cafe on the first floor.

I worked with both Dixie Dewitt and Dan Stephenson. Dixie Dewitt is the Financial and Business Services Manager for university libraries. She oversees all monetary allocation at the library. Dan Stephenson is the resident Interior designer at Ball State. He works side by side with the Ball State and outside architects on projects. My overall goal was to create a space that can serve as an escape for students and faculty where they can work, study, socialize and hang out.

Design Concept and Mission Statement

This design was aimed at creating a space that fosters a learning experience engaged in the discovery of knowledge, insures achievement, promotes teamwork and problem solving, as well as personalized learning and the discovery of knowledge. This space will serve as academic and social destinations for all users.

Part One: Programming Phase

The first part of the project was programming. This is the part of the design process that is all about gathering all the information necessary to complete the projects. To accomplish this I had to work with the actual clients and users to assess client and user needs and wants and develop a list of issues and goals. These had to show areas that need the most attention as well as things that the client would like to see accomplished in the project. It was a mix of the client and user needs. In my project as with many projects the client was not the only person who
works in the space, and has little or no knowledge of what goes on in many of the different spaces. I also had to document problems that I saw in the space. Many times clients do not even realize there is a problem until you point it out. This is part of a designer’s job. Designers are problem seekers. To accomplish this I had to evaluate the space through observation. This meant I had to sit in the space and evaluate how users were interacting; assess noise levels, find code issues and areas, and monitor comfort levels in spaces. I had to document what was working and what was causing. I also had to generate client and user questionnaires that would give us a firsthand account of what bothered the daily users of the space. Last I had to document the layout of the space against the CAD drawings. During this process I also had to look at research materials and images of successful and unsuccessful projects that are similar to mine. From this I had to know the codes and regulations associated with the space, the ways I could incorporate sustainability in the project, what finishes and materials are appropriate for the space, where designers usually fall short, and what areas I could use to make the space unique and innovative.

This process was extremely eye-opening. In school you rarely get the whole picture of what goes on the life a designer. This information gathering process is as labor intensive and in many ways more important than the design process itself. It pointed out the difficulties you have with a project in coordinating with clients, meeting clients needs that differ from your own, understanding the codes and regulation that have to be followed to meet laws, and the affect good research can have on a project.

**What I found from Programming**

These are some of the thing I found in my programming. Bracken Library has many design issues starting when you walk in the door the overhead lighting is harsh and unimaginative. The entry is further marred by the security system in place. It is bulky and sets a
negative picture in patron’s minds. The building is full of cold, grey, drab concrete that make the space uninviting and with the washed out carpet and white ceiling throughout the space lacks color and vibrancy. Another major issue is that the circulation, reference, and reserve desk all lack a sense of place. There is no bulk head or lighting to help with spatial way finding, ambiance, or to define them as a destination. The furniture in the building is the original furniture from when the building was built. It is uncomfortable, unattractive and it doesn’t allow students to lounge and sit in different ways so that they feel more at home. They also do not take optimal advantage of the exterior views. Setting areas at windows are minimal and not dynamic or adjustable. The draperies are also the original drapes. New drapes could add a punch of color and a more modern and intimate feel. The carpeting in the building is torn and taped in places and the drab color only heightens the dullness of the space. Since carpet is expensive to replace and needs to be replaced often a different floor finish like cork would be more sustainable, much longer lasting and durable, and would warm the space up considerably. Way finding in the library is done solely through the use of signs. There are no places with a defined sense of space. Creating intimate seating areas and defining the three desks as destination with bulkheads, lighting and finishes would help the problem considerably. The ceiling throughout the space is the same monotonous white acoustical tile. Creating varying ceiling types would help break up the space visually and create interest. In the Northwest area there the issue is with the sea of computers. It is a boring space and a more dynamic layout that caters to how students work is needed. Low systems furniture could break up the work stations for students working alone but still allow other students the option to work as a group. The spiral stair case in the lobby is a great focal point and destination. But like so many other aspects in the space it lacks interest and a defined sense of space. The addition of color and new modern finishes could give this popular
student meeting spot a greater user experience. The signage on the stacks is a mix of small metal holders and printed paper. A large easy to read labeling system could help clean up the clutter and better direct patrons to their destination.

**Part Two: Schematic and Contract Documents Phase**

The Second part of the project was completed in studio class. This was a very labor intensive process. The process was made more complicated by a disagreement between professors. The studio professor did not think that the programming was adequate and the class spent five weeks back tracking to fix problems. This really wasted valuable time that should have been dedicated to the project and ultimately hurt everyones final result. After fixing the problems I moved into the schematics phase of design. This involved taking the research and issues and developing multiple solutions for the project. In a real project these would be submitted to a client to get a feel for where they want the project to go. However, I worked with our professor to discuss where she wanted me to work to challenge myself on the project. I had to create spatial layout using bubble diagrams, preliminary furniture layouts, and demolition plans. From there I decided a more finite direction for my project.

With this information I moved into finish selections and contract and construction document preparations. For the finish manual I had to make spread sheets and cut sheets for every finish and item in the space. Cut sheets for furniture show an image of the piece of furniture and an image or sample of each finish to be applied as well as a list of the information needed to order the piece. The same is done for surfaces. You paste the sample to the sheet and list all the information about the material. This was a massive undertaking. I had to coordinate with sales reps to acquire finishes for all my surfaces and then make these cut sheets that corresponded with tag numbers to the spread sheets and the CAD drawings. We then had to
write specifications for a few of our finishes. In a project you write specifications for every material used in the project. These can sometimes be multiple three ring binders full of information. For the sake of time we had to prepare three. This involves using a template from Sweets network to write documents letting contractors know what is and isn’t acceptable with regards to materials, the labor used to apply the material, and the way in which the material is handled and applied. It is how you keep the process legal and ensure a good final product. Last and most labor intensive was preparing a sheet set of construction documents. These had to be 25 pages long on 18”x24” paper. It had to include a title sheet, the existing plan, demolition plan, construction plan, interior elevations and sections, enlarged plans, partition types, window and door schedules and elevations, jamb details, finish plans, reflected ceiling plan, lighting schedule, furniture plan, and a furniture schedule. This was by far my biggest shock on the project. I never knew how difficult it was to develop construction documents. It is a lot of checking and referencing to make sure all things reference everything else in a correct manner.

**Concerns and Considerations**

Throughout this project there were other concerns that had to be considered with every decision. Sustainability was a big issue. With finish and furniture selection I had to be sure that my choices were environmentally friendly. I used finishes that were LEED rated to promote good indoor air quality, and that were from renewable, non polluting resources. The furniture is made to be long lasting and durable and the fabrics have coatings to protect them from staining. This is important because a big part of sustainability is getting the client to keep the design for a long time. This means less waste winding up in landfills. So the more durable and timeless the design the longer the client will keep it.
I also had to be aware of ADA or the American with Disabilities Act. It is important that libraries be designed so that all users can effectively use the space. People with limited mobility or mobility restrictions need to be able to do everything other patrons can. Areas of concern include the book drop, information, circulation, and reserve desk, restrooms, computer desk and group work areas, doors, aisles, ramps, conveying systems, and doorways.

In the project we had to indentify major areas of concern. These are as follows. First is lighting. Lighting should create minimal glare on computers. Lighting in stacks should create an even wash over the front of the stacks. Indirect lighting bounced back down off the ceiling creates the best lighting for computer areas. Direct lighting should use reflectors or diffusers. Lighting should be controllable from the main desk to allow staff to signify when patrons need to leave. Lighting at windows can create feeling of day at night. Second is security. Security systems should not detract from the design of the space. Areas of security concern are primarily the main entrance and exit, but also stairwells, restrooms, special collections, and any exits. Third is finishes. Finishes must be durable. Cork, stone and wood are all good materials for flooring in libraries. Carpet is also an acceptable material. Cork needs to be kept away from entries as it is susceptible to damage by grit. It also can fade so is best when kept away from UV light. Wood is best if engineered is used. Stone is a good choice for main walkways. Care should be taken to ensure it is not slippery or has too much height variation.

**Conclusion and Thoughts on the Process**

I found the entire process enlightening. It offered me a good glimpse of what I will be doing in my career. There were parts about it I loved and parts I hated. I enjoyed working with finishes and doing schematic designs. I like writing specifications and creating spatial layouts. However, I did not like assembling the construction document. This was compounded by the
fact that my project was too big. Originally it was supposed to be a portion of the first floor but soon became all of the first floor. This is 30,000 square feet and the requirements were 5,000 square feet. It was a huge undertaking but in the end a great project that taught me more about my career than just about any other class I have had.
Section Two:

Program Adendum
Bracken Library has many design issues starting when you walk in the door. The overhead lighting is harsh and unimaginative. The entry is further marred by the security system in place, which is bulky and sets a negative picture in patrons' minds. The building is full of cold, grey, drab concrete that makes the space uninviting, and with the washed out carpet and white ceiling throughout the space lacks color and vibrance. Another major issue is that the circulation, reference, and reserve desk all lack a sense of place. There is no bulkhead or lighting to help with spatial wayfinding, ambiance, or to define them as a destination. The furniture in the building is the original furniture form when the building was built. It is uncomfortable, unattractive, and it doesn't allow students to lounge and sit in different ways so that they feel more at home. They also do not take optimal advantage of the exterior views. Setting areas at windows a minimal and not dynamic or adjustable. The draperies are also the original drapes. New drapes could add a punch of color and a more modern and intimate feel. The carpeting in the building is torn and taped in places and the drab color only heightens the dullness of the space. Since carpet is expensive to replace and needs to be replaced often a different floor finish like cork would be more sustainable, much longer lasting and durable, and would warm the space up considerably.

Way finding in the library is done solely through the use of signs. There are no places with a defined sense of space. Creating intimate seating areas and defining the three desks as destination with bulkheads, lighting, and finishes would help the problem considerably. The ceiling throughout the space is the same monotonous white acoustical tile. Creating vary-
Seating is old and dated and not conducive to student use.

Old draperies and poor signage are among the many problems in the library.

The sea of computers is boring a more dynamic layout that caters to how students work is needed.

Ceiling types would help break up the space visually and create interest. In the Northwest area where the issue is with the sea of computers. It is a boring space and a more dynamic layout that caters to how students work is needed. Low systems furniture could break up the work stations for students working alone but still allow other students the option to work as a group. The spiral staircase in the lobby is a great focal point and destination. But like so many other aspects in the space it lacks interest and a defined sense of space. The addition of color and new modern finishes could give this popular student meeting spot a greater user experience. The signage on the stacks is a mix of small metal holders and printed paper. A large easy to read labeling system could help clean up the clutter and better direct patrons to their destination.

The spiral staircase and ceiling system do not enhance the space and the signage on the stacks is cluttered and cheap looking.
<table>
<thead>
<tr>
<th>Considerations</th>
<th>Goals</th>
<th>Facts</th>
<th>Concepts</th>
<th>Needs</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>People</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relationships</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3000 Students, Faculty, Muncie Citizens per day</td>
<td>Library for books, computer access, work space, and numerous resources</td>
<td>Computers now in multiple places should come together in one area</td>
<td>Sleek security system incorporated or in some way disguised</td>
<td>Security is too visible and unattractive creates uneasy mood</td>
</tr>
<tr>
<td></td>
<td>Studying, group work, computer access, reading, lounging, socializing, entertainment, space to wait between classes</td>
<td>Students, Faculty, Muncie Citizens</td>
<td>Powering computers is an issue, power comes off columns</td>
<td>Floor patterns, bulkheads, material variations to create sense of place, plants</td>
<td>Space needs to be more broken up while still being open to allow visual monitoring</td>
</tr>
<tr>
<td></td>
<td>Create a more welcoming and social atmosphere where students can work individually and in groups</td>
<td>Initially intended as stacks area with tables for study, changes over the years have been disjointed</td>
<td>Noise on first floor can be a problem for some who want to study in quiet an area should be created to address this</td>
<td>Library still has cold reserved feeling that was intended when space was built</td>
<td>Roughly 110 workers with up to 30 at the library at any given time</td>
</tr>
<tr>
<td>Form</td>
<td>Site</td>
<td>Environment</td>
<td>Quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>-------------</td>
<td>---------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To create an environment that encourages learning and socialization</td>
<td>Ball State University in the heart of campus Place for students to meet, study Outdated, needs not met by current design</td>
<td>Building must be ADA accessible in all areas, offering computer access, stack accessibility, ADA areas at the three desk and places for all patrons to work and interact</td>
<td>The library is bordered by the business building, Pruis Hall, and the Arts and Communication building The exterior has a generous foot print to handle daily traffic of space, it also offers areas for patrons to be outside on nice days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economy</td>
<td>Initial Budget</td>
<td>New finishes will follow LEED Building was designed before</td>
<td>The space is used for a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space was designed to</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td><strong>Past</strong></td>
<td><strong>Present</strong></td>
<td><strong>Future</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>---------</td>
<td>------------</td>
<td>-----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Cost</strong></td>
<td>standards to promote a reduced environmental impact, and greater IAQ</td>
<td>the use of today's technology</td>
<td>variety of functions, some functions like recitals and loud activities create a problem in the space</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Life-cycle Cost</strong></td>
<td>Finishes and furniture need to be durable to withstand high traffic</td>
<td>Library is a high traffic area that is hard on furniture and finishes</td>
<td>house books now it needs to accommodate group work spaces, computers and other technology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Built in 1975 Library** | historically used for book, microfilm, and periodical access | Now it offers more information access through digital media | It also is changing to a place where socialization and noise are not prohibited |
client and user needs.....

Staff
Deans and Administrators
Full time Library Staff
Part Time Student Workers

- Ability to easily monitor activities in spaces
- New carpeting/flooring
- New draperies
- New soft seating areas
- More computer work stations roughly 150 total
- Warmer more inviting mood to attract students
- Minimize cold concrete and brutal architecture
- Height adjustable tables
- Ability to share electronic information (swivel screens) at reference desk
- Better storage at circulation, reserve, and reference desk
- Better privacy for certain things more storage behind desk
- Larger area for commonly requested items at reserve desk
- Move microfilms to digital access
- ADA compliant reserve, reference, and circulation desk
- Greater amount of privacy for computers at circulation desk
- More defined sense of space at circulation reserve, and reference desk
- Ease of movement through space with heavy carts of books
- Better labeling system for shelving
- Restorative environment with the integration of plants
- More durable flooring that does not need to be replaced as often
- Areas to display student art work
- Keep naked lady statue displayed in the lobby

Patrons
Students
Professors and Faculty
Munice Citizens

- New soft seating areas
- More computer work stations roughly 150 total
- Warmer more inviting mood to attract students
- Move microfilms to digital access
- ADA compliant reserve, reference, and circulation desk
- More defined sense of space at circulation reserve, and reference desk
- Better labeling system for shelving
- Areas to read and study
- Areas to work as a group at tables
- Conference areas for group work with technology integrated
- Access to computers, access to various technologies
- Quick access to computers for Card Cat (possibly Stand Up stations)
- Print copy centers/ Easier access to color printing, copies (using BSU ID)
- More lobby seating to use while waiting on group members
- Technology integration throughout building
- Restorative environment with the integration of plants
- Better lighting for computer work, lighting that is reflected off the ceiling
- Create spaces for lounging and individual study that are more ambient and homely
- Keep naked lady statue as meeting place for students
inspire. I have drawn inspiration from many different sources. The Seattle Public Library is a key component. It is the cutting edge of technology integration and design. Materials like cork, bamboo, lacquered wood, glass, and aluminum are all in keeping with my design. My design needs to create an image of high tech while still being comfortable for students and encourage student to spend time in the library. I am looking to add interesting lounge seating in the
main corridor, a ceiling system overhead that imitates the movement of information, bright bold colors on the walls and components, and new signage and floor patterns for way finding. I have drawn other inspiration from European kitchens. The sleek look archives the technological feel I am trying to create.
innovative. The Seattle public library to the left looks at a library in a new and innovative way. The uses of bold colors with finishes like metal, wood, stone, and concrete gives the space a bold look. The seating pods on the floor create dynamic and adjustable spaces for patrons to sit and read. The numbering system on the floor in the stacks is an innovative way to address a generally mundane detail.

The space on the right has some interesting features. The computer station in the stacks is a nice idea. It would allow quick access to the Card CAT system. The orange block is nice in that it offers four different display areas. Here gain bold color has been used in small amounts to create punches and pops in areas.
Marcq-en-Barouel
Public Library, France

Vordingborg Public Library, Denmark

dynamic. This space on the right shares the commonality with Bracken of the brick walls. The bold colors and modern furniture create an interesting place for patron. The circular seating area at the bottom left is similar to the affect I will create with the Bix seating system.

The space to the left has innovative features that I will look at incorporate. The computers station is something I would like to do at the end of the stacks to offer access to Card CAT. The seating areas at the window area nice place for people to lounge, read, and socialize. The addition of art cases adds another layer to the experience and atmosphere or learning through observing.
## Criteria Matrix

<table>
<thead>
<tr>
<th>Space Name</th>
<th>Adjacencies</th>
<th>Square Footage</th>
<th>Public Access</th>
<th>Daylight View</th>
<th>Special Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 New Books</td>
<td>Reading Areas</td>
<td>270</td>
<td>Y</td>
<td>N</td>
<td>Shelving, Electrical</td>
</tr>
<tr>
<td>2 Printers</td>
<td></td>
<td>300</td>
<td>Y</td>
<td>N</td>
<td>Electrical</td>
</tr>
<tr>
<td>3 Lounge Areas</td>
<td></td>
<td>1650</td>
<td>Y</td>
<td>Y</td>
<td>Soft Seating, Occasional Tables, Work Tables, Chairs, Electrical</td>
</tr>
<tr>
<td>4 Periodical Reserve Stacks</td>
<td>Reserve Desk</td>
<td>1750</td>
<td>Y</td>
<td>N</td>
<td>Data, Telephone, Electrical, Counters, Shelving, Storage Cabinets, Computers</td>
</tr>
<tr>
<td>5 Reserve Desk</td>
<td>Periodical, Newspapers</td>
<td>200</td>
<td>Y</td>
<td>Y</td>
<td>Data, Telephone, Electrical, Counters, Shelving, Storage Cabinets, Computers</td>
</tr>
<tr>
<td>6 Computer Work Stations</td>
<td></td>
<td>4500</td>
<td>Y Indirect View</td>
<td></td>
<td>Tables, Task Chairs, Electrical</td>
</tr>
<tr>
<td>7 Newspapers</td>
<td>Reading Areas, Reserve Desk, Copiers</td>
<td>160</td>
<td>Y</td>
<td>N</td>
<td>Racks, Shelving, Electrical</td>
</tr>
<tr>
<td>8 Circulation Counter and Information</td>
<td>Lobby, Main Offices</td>
<td>400</td>
<td>Y</td>
<td>Y</td>
<td>Data, Telephone, Electrical, Counters, Shelving, Storage Cabinets, Computers</td>
</tr>
<tr>
<td>9 Reference Desk</td>
<td></td>
<td>250</td>
<td>Y</td>
<td>N</td>
<td>Data, Telephone, Electrical, Counters, Shelving, Storage Cabinets, Computers</td>
</tr>
<tr>
<td>10 Vestibule North</td>
<td>Lobby</td>
<td>250</td>
<td>Y</td>
<td>Y</td>
<td>Electrical</td>
</tr>
<tr>
<td>11 Vestibule South</td>
<td>Lobby</td>
<td>250</td>
<td>Y</td>
<td>Y</td>
<td>Electrical</td>
</tr>
<tr>
<td>12 Conference</td>
<td></td>
<td>650</td>
<td>Y</td>
<td>N</td>
<td>Data, Electrical, Whiteboard, Projector</td>
</tr>
</tbody>
</table>
Title: Ball State University Sustainability Statement
Publication: Ball State Website
Year: 2007
URL: http://www.bsu.edu/ceres/sustainability/
Summary: This resource defines Ball State's vision for the projects on campus. It also relates the commitment to the university mission statement.

Call Num: ARCH Z 679.5.M44 2000
Title: Planning for a New Generation of Public Library Buildings
Author: Gerald B. McCabe
Publisher: Greenwood Press
Year: 2000
Page Num: 35-40, 41-56, 57-63
Summary: These selections address interior design in libraries including finishes, furniture, reading surfaces, waste collection, and color selection. It explains layouts, machinery, shelving, built-ins, and seating. Then it looks at university college planning techniques.

Call Num: ARCH Z 679.2.U54 B39 2001
Title: Academic Libraries as High-Tech Gateways
Author: Richard J. Bazillion and Connie L. Braun
Publisher: American Library Association
Year: 2001
Page Num: 52-54, 88-95, 128-140
Summary: The selections look at ADA needs in a library space, organization and layout of the interior spaces, and shelving and furniture needs and technicalities. It also offers valuable pictures.
Title: Outstanding Design Libraries/Media Centers
Publication: American School and University Year: August 2007 Page Num: 119-130
Summary: This article reviews the 12 best designed libraries at schools and universities. It gives the cost of project, cost per square foot, and the size of the project. It has pictures of each space and a description with background on the spaces and how it is innovative.

Title: Integrating Sustainability in the Learning Community
Author: Anthony D. Cortese, Sc. D.
Publication: Facilities Manager Magazine Year: January/February 2005
URL: http://www.appa.org/FacilitiesManager/article.cfm?ItemNumber=2255&parentid=2248
Summary: The article looks at ways to integrate sustainability in universities. It discusses challenges faced, the transformation that occurs, and strategies for integration of sustainable options.

Title: The Greening of America's Campuses
Author: Timothy Egan
Publication: New York Times Year: January 08, 2006
URL: http://www.nytimes.com/2006/01/08/education/edlife/egan_environment.html?_r=1&ex=1138770000&en=4e188a755c0efb02&ei=5070&oref=slidein
Summary: This article covers various design options that universities are integrating to make their campuses more green.
Call Num: ARCH Z 679.B945 2000
Title: Building Libraries for the 21st Century
Author: T.D. Webb
Publication: McFarland and Company Inc.
Year: 2000
Page Num: 122-148, 156-167,
Summary: This book takes a look at how library projects have addressed many problems and innovative design ideas they integrated. The selected articles are all about university libraries.

Call Num: ARCH Z 675.S3 E75 2000
Title: Designing a School Library Media Center for the Future
Author: Rolf Erikson and Carolyn Markuson
Publisher: American Library Association
Year: 2000
Page Num: 
Summary: This book takes a look at how library projects have addressed many problems and innovative design ideas they integrated. The selected articles are all about university libraries.

Product Specifications:

Product: Cork Flooring
Manufature: Expanko
Useage: Flooring
Summary: This is an option I would like to use to replace the carpeting that will be more sustainable and longer lasting. It will also help warm up the space.

Product: Allure Seating
Manufatures: Sauder
Useage: Seating
Summary: This seating has a homey feel, softer foam than most commercial seating, and are made to come apart so that individual parts of the chair or sofa may be repaired.

Product: TODO
Manufatures: Brayton
Useage: Seating and work station
Summary: This seating will allow work with laptops in a comfortable and relaxing setting.
Section Three:

Schematic Boards
About Bracken...
Bracken Library is located in Muncie, Indiana on the campus of Ball State University. The building construction was completed in 1997. The building was designed by the architecture firm of Walter Scholer & Associates out of Lafayette, Indiana with Associate Architects. The Perkins and Will Partnership from Chicago. The building's namesake is credited to Alexander M. Bracken. Bracken was a Muncie industrialist and the president of Ball State's Board of Trustees for 22 years. The library is quite possibly the top destination for Ball State students is Bracken Library. This facility in approximately 321,800 square feet and houses five floors of university offices, classrooms, computer labs, private study suites, video viewing suites, and thousands of books, videos, and audio devices available to students. It is estimated that more than 3,000 students visit Bracken Library each day.
In January 2007, Bracken Library opened the Bookmark Cafe on the first floor.

Current Plan and Layout

DEMOGRAPHIC

<table>
<thead>
<tr>
<th>Full Time Staff</th>
<th>Age Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Employees</td>
<td>17-70 (primarily 17-25)</td>
</tr>
<tr>
<td>Ball State Students</td>
<td>3000 visitor a day</td>
</tr>
<tr>
<td>Muncie Residents</td>
<td></td>
</tr>
<tr>
<td>Ball State Faculty and Staff</td>
<td></td>
</tr>
</tbody>
</table>

Ball State University

Bracken Library
Ball State University
Jason Southwell

Schematic design
The primary use of the first floor is devoted to computer access followed by research through periodicals or reserve material. Users also check materials out thorough the circulation and reserve desk and utilize the reference desk for help.

This layout is based on the current layout the main obstacle is that the reserve desk and circulation desk have to all have access to the office areas.

This layout shows some way the library could be reworked but may also offer some spatial problems if utilized.
I have drawn inspiration from many different sources. The Seattle Public Library is a key component. It is the cutting edge of technology integration and design. Materials like cork, bamboo, laquered wood, glass, and aluminum are all in keeping with my design. My design need to create an image of high tech while still being comfortable for students and encourage student to spend time in the library. I am looking to add interesting lounge seating in the main corridor, a ceiling system overhead that imitates the movement of information, bright bold colors on the walls and components, and new signange and floor patterns for wayfinding. I have drawn other inspiration from european kitchens. The sleek look achieves the technological feel I am trying to create.
Ideation

a. Ceiling feature and floor pattern help create a sense of place at the desk areas.

b. Currently the stairs are a center feature but lack excitement. The addition of color and seating around the stairs will help make it more of an anchor.

c. This print station combines the ideas of a kiosk and a recycling center to make them more user friendly.

d. Shelving End caps are inspired by European style kitchens. The lower part will be carbonized bamboo and the top will be lacquered wood in a glossy red.
Spatial Relationships

Spatial layout

These are possible layout options for the library. Also shown, are rough ideas for possible furniture layout. I want to create a dynamic space that is not grid like and static. By placing some things on the diagonal and using furniture that breaks from the traditional square the design will create interest and help break the space up more even though it is very open. This is important as it need to remain open so that students can be monitored. In summation my goal throughout this design will be to keep the following catch words of education redefined incorporated in my design.

education redefined
big + small
tradition + innovation
create + collaborate
the village + the world
choices + challenges
experience + opportunity
tools + technology
immersion + engagement

Ideas for Furniture layout and Spatial changes.
**lights.** Lighting should create minimal glare on computers. Lighting in stacks should create an even wash over the front of the stacks. Indirect lighting bounced back down off the ceiling creates the best lighting for computer areas. Direct lighting should use reflectors or diffusers. Lighting should be controllable from the main desk to allow staff to signify when patrons need to leave. Lighting at windows can create feeling of day at night.

**finishes.** Finishes must be durable. Cork, stone and wood are all good materials for flooring in libraries. Carpet is also an acceptable material. Cork needs to be kept away from entries as it is susceptible to damage by grit. It also can fade so is best when kept away from UV light. Wood is best if engineered is used. Stone is a good choice for main walkways. Care should be taken to ensure it is not slippery or has too much height variation.

**signs/paths.** Signage must follow ADA and code guidelines. Wayfinding can be achieved through lighting, finishes, and spatial layout.

**security.** Security systems should not detract from the design of the space. Areas of security concern are primarily the main entrance and exit, but also stairwells, restrooms, special collections, and any exits.

**for all.** It is important that libraries be designed so that all users can effectively use the space. People with limited mobility or mobility restrictions need to be able to do everything other patrons can. Areas of concern include the book drop, information, circulation, and reserve desk, restrooms, computer desk and groupwork areas, doors, aisles, ramps, conveying systems, and doorways.
Section Four:

Midterm Boards
design concept

concept: This design will seek to create a space that fosters a learning experience engaged in the discovery of knowledge, insures achievement, promotes teamwork and problem solving, as well as personalized learning and the discovery of knowledge. This space will serve as academic and social destinations for all users.

direction: The redesign will deal with the first floor of Bracken library. My design will focus on better incorporation of technology, the buzz words of Ball State's new education redefined image.

I have been dealing with both Dixie Dewitt and Dan Stephenson. Dixie Dewitt is the Financial and Business Services Manager for university libraries. She oversees all monetary allocation at the library. Dan Stephenson is the resident Interior designer at Ball State. He works side by side with the Ball State and outside architects on projects. My overall goal is to create a space that can serve as an escape for students and faculty where they can work, study, socialize and hang out.

goals tangible
1. create a better work flow
2. create better spatial wayfinding
3. create a feeling of privacy while still keeping the space open
4. keep the design sustainable
5. insure the design is durable and will withstand heavy traffic
6. create a design that current
7. ensure some furniture is adaptable for multi use
8. create collaborative work areas
9. enhance space through lighting
10. create a restorative environment

goals intangible
1. create a comfortable second home
2. foster learning and collaboration
3. express a technological focus
4. encourage teamwork
5. create social gathering spaces
6. draw students to the space
7. express the image of Ball State
8. provide an escape for users

education redefined
big + small
tradition + innovation
create + collaborate
the village + the world
choices + challenges
experience + opportunity
tools + technology
immersion + engagement

bubble diagrams: I took these two and used the best aspects of both
elevations and sections

circulation desk
scale: 1/16" = 1'-0"

reference desk and print copy center
scale: 1/16" = 1'-0"

section of the north east wall
scale: 1/16" = 1'-0"
sketches & furnishings

a. Ceiling feature and floor pattern help create a sense of place at the desk.

b. Currently the stairs are a center feature but lack excitement. The addition of color and seating around the stairs will help make it more of an anchor.

c. This print station combines the ideas of a kiosk and a recycling center to make them more user friendly.

d. Shelving end caps are inspired by European style kitchens. The lower part will be carbonized bamboo and the top will be lacquered wood in a glossy red.

e. Kick freestanding panels by Steelcase will create individual areas at computers for students to work while still allowing students to work in groups.

f. This will be the base system for the new shelving it has a modern European look.

g. Sauder educational furniture is renew able and individual components can be taken off the chair to be sent off for repair.

h. Bix seating will create conference like spaces for students and will be equipped with integrated data and power ports and an option for a projector.

i. The oasis bench by Peter Pepper will create a nice experience in the lobby and give students more space to wait to meet their group members.
finishes

ceilings

- Armstrong Patina Vector Bamboo used in study lounges adjacent to lobby at elevators and down main corridor Ceiling Tile
- Channelled Fire Channelled Caribbean used by windows at above seating areas

flooring

- Custom hardwood floor Minwax Fruit Punch used at reserve, reference, and circulation desk
- Expank Traditional Cork Flooring Light used throughout library
- Expank Traditional Cork Flooring Medium used throughout library
- Expank Traditional Cork Flooring used throughout library

- Rosa Terazzo D-04-36 used in lobby between vestibules
- Rosa Terazzo S-04-13 used in lobby between vestibules
- Rosa Terazzo D-04-34 used in lobby between vestibules

- GRT Glass Des. Frosted Glass on reserve, reference, and circulation desk
- Veneer Vertical Bamboo on reserve, reference, and circulation desk
- Tree Frog Veneer Ebony Straight Grain used on casework and shelving end caps

case work and vertical surfaces

- Armstrong Curved Woodworks Panels used above group work and reading areas
- GRT Glass Des. Frosted Glass on reserve, reference, and circulation desk
- Veneer Vertical Bamboo on reserve, reference, and circulation desk
- Tree Frog Veneer Ebony Straight Grain used on casework and shelving end caps
Section Five:

Construction Documents
Bracken Library Renovation
First Floor
Ball State University
Spring 2008

T100  Cover Sheet
A100  Existing Floor Plan
A101  Existing Floor Plan
A200  Demolition Floor Plan
A201  Demolition Floor Plan
A300  Construction Floor Plan
A301  Construction Floor Plan
A400  Interior Elevations
A401  Interior Elevations
A402  Interior Elevations
A403  Interior Section and Elevations
A404  Enlarged Plans
A500  Partition Types
A600  Interior Details
A700  Door Schedule, Elevations and Details
A800  Finishes Plan
A801  Finishes Plan
A802  Finishes Schedule
A803  Floor Pattern Plan
A804  Floor Pattern Plan
E100  Reflected Ceiling Plan
E101  Reflected Ceiling Plan
E102  Lighting Schedule
F100  Furniture Plan
F101  Furniture Plan
F102  Furniture Schedule
Demolition Notes

1. Demo GWB and stud wall and door structure
2. Demo half wall and remove security system
3. Remove all carpet and carpet pad flooring throughout level floor where necessary
4. Remove ceramic tile and level floor where necessary
5. Demo GWB stud wall
6. Demo desk
7. Remove benches and retain for client
8. Remove statue, client responsible for storage until completion of project
9. Demo curtain wall structure and door structures
10. Remove directory
11. Remove Shelving, store with owner for painting and reuse in project
12. Remove cabinets, owner responsible for disposal
Demolition Notes

1. Demo GWB and stud wall and door structure
2. Demo half wall and remove security system
3. Remove all carpet and carpet pad flooring throughout, level floor where necessary
4. Remove ceramic tile and level floor where necessary
5. Demo GWB stud wall
6. Demo desk
7. Remove benches and retain for client
8. Remove status, client responsible for storage until completion of project
9. Demo curtain wall structure and door structures
10. Remove directory
11. Remove Shelving, store with owner for painting and reuse in project
12. Remove cabinets, owner responsible for disposal
CONSTRUCTION NOTES

1. INSTALL NEW SOLID CORE FLUSH GLASS PANE DOOR AND ALUMINUM FRAME W/HARDWARE.

2. ENCASE COLUMN IN CUSTOM CASEWORK. REFER TO DETAIL FOR CLARIFICATIONS.

3. PREP AND PATCH WALLS FOR NEW FINISH.

4. PREP AND PATCH FLOOR FOR NEW FINISH.

5. SENSORMATIC SECURITY SYSTEM INSTALLED ON DOOR FRAME. SEE SCHEDULE FOR CLARIFICATION.

6. INSTALL ENDCAPS ON BUILT-INS. SEE DETAIL DRAWINGS AND ELEVATIONS FOR CLARIFICATIONS.

7. BOLT BOOKSELF TO GROUND ON ALL CORNERS AND AT EVERY 3' RUN.

8. BOLT CASEWORK PIECE TO GROUND ON ALL CORNERS.

9. BUILD WALL ACCORDING TO DETAIL SPECIFICATIONS AND ELEVATIONS.

10. DRILL HOLES TO BOLT OASIS SEATING TO FLOOR PER MANUFACTURER INSTRUCTIONS.
CONSTRUCTION NOTES

1. INSTALL NEW SOLID CORE FLUSH GLASS PANE DOOR AND ALUMINUM FRAME W/HARDWARE.

2. ENCASE COLUMN IN CUSTOM CASework. REFER TO DETAIL FOR CLARIFICATIONS.

3. PREP AND PATCH WALLS FOR NEW FINISH.

4. PREP AND PATCH FLOOR FOR NEW FINISH.

5. SENSORMATIC SECURITY SYSTEM INSTALLED ON DOOR FRAME. SEE SCHEDULE FOR CLARIFICATION.

6. INSTALL ENDCAPS ON BAGESHELVES OVER EXISTING WOOD ENDCAP. SEE DETAIL DRAWINGS AND ELEVATIONS FOR CLARIFICATIONS.

7. BOLT BOOKSHELF TO GROUND ON ALL CORNERS AND AT EVER 3' RUN.

8. BOLT CASework PIECE TO GROUND ON ALL CORNERS.

9. BUILD WALL ACCORDING TO DETAIL SPECIFICATIONS AND ELEVATIONS.

10. DRILL HOLES TO BOLT SEATING TO FLOOR PER MANUFACTURES INSTRUCTIONS.
Interior Elevations

Bracken Library Renovation
Ball State University
200 West University Street
Muncie, IN 47306

PROJECT NUMBER: 00001
DATE: 04-01-08
DRAWN BY: Jason Southwell

Scale: 1/4" = 1'-0"

Sheet Title: Interior Elevations

Sheet No: A401

Print Copy

Center Cabinet

Center Cabinet
Bracken Library Renovation
Ball State University
2000 West University Street
Muncie, IN 47306

PROJECT NUMBER:
00001

DATE:
04-01-08

DRAWN BY:
Jason Southwell

Scale:

Sheet Title:
Interior Section North Wall and Elevations

Sheet No:
A403

11 of 25
Door Type 1: Curtain Wall Exterior

Door Type 2: Plate Panel on Girders

Door Type 3: Curtain Wall Interior Left
Hand Swing

Door Type 3: Curtain Wall Interior Right
Hand Swing

Edge bead where jamb and mullions join.

ALUMINUM FRAME

PLANTED STOP

Door Schedule:

<table>
<thead>
<tr>
<th>Opening Number</th>
<th>Size</th>
<th>Manufacture</th>
<th>Type</th>
<th>Material</th>
<th>Elevation</th>
<th>Material</th>
<th>Finish</th>
<th>Details</th>
<th>Door Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1'-0&quot; x 3'-0&quot;</td>
<td>SFCO</td>
<td>Panel Double Left and Right Swing Center Flanges</td>
<td>Aluminum and Glass</td>
<td>1</td>
<td>Steel</td>
<td>SW 6076</td>
<td>A800 Jamb 1</td>
<td>2hr Rated Thermal Pane</td>
</tr>
<tr>
<td>2</td>
<td>2'-0&quot; x 3'-0&quot;</td>
<td>SFCO</td>
<td>Panel Single Left Swing Center Flanges</td>
<td>Aluminum and Glass</td>
<td>2</td>
<td>Steel</td>
<td>SW 6076</td>
<td>A800 Jamb 1</td>
<td>2hr Rated Thermal Pane</td>
</tr>
<tr>
<td>3</td>
<td>2'-0&quot; x 3'-0&quot;</td>
<td>SFCO</td>
<td>Panel Single Right Swing Center Flanges</td>
<td>Aluminum and Glass</td>
<td>3</td>
<td>Steel</td>
<td>SW 6076</td>
<td>A800 Jamb 1</td>
<td>2hr Rated Thermal Pane</td>
</tr>
<tr>
<td>4</td>
<td>2'-0&quot; x 3'-0&quot;</td>
<td>SFCO</td>
<td>Acrylic Panel with Glazing</td>
<td>Acrylic Resin</td>
<td>4</td>
<td>Steel</td>
<td>SW 6076</td>
<td>A800 Jamb 2</td>
<td></td>
</tr>
<tr>
<td>Tag</td>
<td>Type</td>
<td>Manufacturer</td>
<td>Product Number</td>
<td>Style</td>
<td>Colorway</td>
<td>Top Finish</td>
<td>Steel Height</td>
<td>Size</td>
<td>Remarks</td>
</tr>
<tr>
<td>-----</td>
<td>---------------</td>
<td>-----------------------</td>
<td>----------------</td>
<td>------------------------</td>
<td>----------------</td>
<td>----------------------------</td>
<td>--------------</td>
<td>--------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>F1</td>
<td>Cork</td>
<td>Armstrong</td>
<td>EUSBCS00LG</td>
<td>Traditional Cork</td>
<td>Light</td>
<td>Maple Polyurethane</td>
<td>12&quot; x 12&quot;</td>
<td>Flooring</td>
<td></td>
</tr>
<tr>
<td>F2</td>
<td>Cork</td>
<td>Armstrong</td>
<td>EUSBCS00LG</td>
<td>Terra Tile</td>
<td>Dark</td>
<td>Maple Polyurethane</td>
<td>12&quot; x 12&quot;</td>
<td>Flooring</td>
<td></td>
</tr>
<tr>
<td>F3</td>
<td>Cork</td>
<td>Armstrong</td>
<td>EUSBCS00LG</td>
<td>Traditional Cork</td>
<td>Thin Plasic</td>
<td>Maple Polyurethane</td>
<td>12&quot; x 12&quot;</td>
<td>Flooring</td>
<td></td>
</tr>
<tr>
<td>F4</td>
<td>Tamazzo</td>
<td>Resinoholic and Tile Co.</td>
<td>0-06-26</td>
<td></td>
<td></td>
<td>Water Based Matte</td>
<td>1/2&quot; x 5&quot;</td>
<td>Flooring Lobby</td>
<td></td>
</tr>
<tr>
<td>F5</td>
<td>Tamazzo</td>
<td>Resinoholic and Tile Co.</td>
<td>0-06-31</td>
<td></td>
<td></td>
<td>Water Based Matte</td>
<td>1/2&quot; x 5&quot;</td>
<td>Flooring Lobby</td>
<td></td>
</tr>
<tr>
<td>F6</td>
<td>Tamazzo</td>
<td>Resinoholic and Tile Co.</td>
<td>S-04-12</td>
<td></td>
<td></td>
<td>Water Based Matte</td>
<td>1/2&quot; x 5&quot;</td>
<td>Flooring Lobby</td>
<td></td>
</tr>
<tr>
<td>F7</td>
<td>Bamboo</td>
<td>Armstrong</td>
<td>EUSBCS00LG</td>
<td>Carbon</td>
<td></td>
<td>Water Based Matte</td>
<td>1/2&quot; x 5&quot;</td>
<td>Flooring by Desk</td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Vinyl</td>
<td>Reppe</td>
<td>P162</td>
<td>Pine Slate</td>
<td>Oake</td>
<td>5&quot;</td>
<td>Throughout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1</td>
<td>Acrylic Paint</td>
<td>Sherwin Ready</td>
<td>SW-0001</td>
<td>Reddish</td>
<td>Semi Gloss</td>
<td>Walls</td>
<td>Throughout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P2</td>
<td>Acrylic Paint</td>
<td>Sherwin Ready</td>
<td>SW-0002</td>
<td>Spiced Butterscot</td>
<td>Semi Gloss</td>
<td>Walls</td>
<td>Throughout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P3</td>
<td>Acrylic Paint</td>
<td>Sherwin Ready</td>
<td>SW-0003</td>
<td>Icy Green/Amber</td>
<td>Semi Gloss</td>
<td>Walls</td>
<td>Throughout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P4</td>
<td>Acrylic Paint</td>
<td>Sherwin Ready</td>
<td>SW-0004</td>
<td>Cilicio</td>
<td>Semi Gloss</td>
<td>Walls</td>
<td>Throughout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P5</td>
<td>Acrylic Paint</td>
<td>Sherwin Ready</td>
<td>SW-0005</td>
<td>Tuscan Coffee</td>
<td>High Gloss</td>
<td>Door Frames</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P6</td>
<td>Acrylic Paint</td>
<td>Sherwin Ready</td>
<td>SW-0006</td>
<td>Icy White</td>
<td>Flat</td>
<td>Concrete Ceiling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P7</td>
<td>Enamel</td>
<td>Sherwin Ready</td>
<td>SW-0007</td>
<td>Leaf</td>
<td>High Gloss</td>
<td>Bookcases</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RV1</td>
<td>Wall Panel</td>
<td>3 Form</td>
<td></td>
<td></td>
<td></td>
<td>Wall Art</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Sgrasso Panel</td>
<td>Smith and Fong</td>
<td>SP-1488ABI</td>
<td>Edge Grain Jody</td>
<td>Acorn</td>
<td>Maple Eucalyptus</td>
<td>3/4&quot; x 30&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td>Sgrasso Panel</td>
<td>Smith and Fong</td>
<td>SP-1488AFN</td>
<td>Cremo</td>
<td></td>
<td>Maple Eucalyptus</td>
<td>3/4&quot; x 30&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C3</td>
<td>Acrylic Panel</td>
<td>Smith and Fong</td>
<td>SW-1605</td>
<td>Calico</td>
<td>Semi Gloss</td>
<td>Classroom and Casework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C4</td>
<td>Acrylic Panel</td>
<td>Smith and Fong</td>
<td>SW-1606</td>
<td>Turkish Coffee</td>
<td>High Gloss</td>
<td>Classroom and Casework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C5</td>
<td>Acrylic Panel</td>
<td>Smith and Fong</td>
<td>SW-1607</td>
<td>Icy White</td>
<td>Flat</td>
<td>Casework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C6</td>
<td>Acrylic Panel</td>
<td>Smith and Fong</td>
<td>SW-1608</td>
<td>Leaf</td>
<td>High Gloss</td>
<td>Caseework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C7</td>
<td>Plastic Laminate</td>
<td>Fabricpac</td>
<td>G19</td>
<td>Polished</td>
<td>Stop Red</td>
<td>Polished</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C8</td>
<td>Plastic Laminate</td>
<td>Fabricpac</td>
<td>G51</td>
<td>Matte</td>
<td>Spectrum Blue</td>
<td>Matte</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C9</td>
<td>Plastic Laminate</td>
<td>Fabricpac</td>
<td>G40-90</td>
<td>Polished</td>
<td>White</td>
<td>Polished</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C10</td>
<td>Plastic Laminate</td>
<td>Wilanconit</td>
<td>D34-64</td>
<td>Matte</td>
<td>Maple</td>
<td>Polished</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L1</td>
<td>Glass Paint Supports</td>
<td>3 Form</td>
<td></td>
<td></td>
<td></td>
<td>Glass Paint Supports</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C11</td>
<td>Sgrasso Panel</td>
<td>Armstrong</td>
<td>WO-0205</td>
<td>Vector Unperforated</td>
<td>Semin Porous</td>
<td>Clear Coat</td>
<td>2&quot; x 2&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C12</td>
<td>Sgrasso Panel</td>
<td>Armstrong</td>
<td>WO-0206</td>
<td>0&quot; Edge Trim 02220AF</td>
<td></td>
<td>Clear Coat</td>
<td>2&quot; x 2&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C13</td>
<td>Sgrasso Panel</td>
<td>Armstrong</td>
<td>WO-0207</td>
<td>Black Angle Trim 0205BL</td>
<td></td>
<td>Clear Coat</td>
<td>2&quot; x 2&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C14</td>
<td>Suspended Grids</td>
<td>Armstrong</td>
<td>54192 CEF</td>
<td>Infusion Acetate Paint</td>
<td>Chantilly Porous Grid</td>
<td>Clear Grid</td>
<td>2&quot; x 2&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C15</td>
<td>Suspended Grids</td>
<td>Armstrong</td>
<td>54192 CEF</td>
<td>Infusion Acetate Paint</td>
<td>Chantilly Porous Grid</td>
<td>Clear Grid</td>
<td>2&quot; x 2&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>C16</td>
<td>Suspended Grids</td>
<td>Armstrong</td>
<td>54192 CEF</td>
<td>Infusion Acetate Paint</td>
<td>Chantilly Porous Grid</td>
<td>Clear Grid</td>
<td>2&quot; x 2&quot;</td>
<td>Classroom</td>
<td></td>
</tr>
<tr>
<td>Tag</td>
<td>Manufacturer</td>
<td>Series</td>
<td>Style Name</td>
<td>Style Number</td>
<td>Lighting Type</td>
<td>Application</td>
<td>Dimmable</td>
<td>Mount</td>
<td>Height</td>
</tr>
<tr>
<td>-----</td>
<td>--------------</td>
<td>-------</td>
<td>------------</td>
<td>--------------</td>
<td>---------------</td>
<td>-------------</td>
<td>-----------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>A</td>
<td>Beta Calco</td>
<td>Archival II</td>
<td>11 9912 CP-2N</td>
<td>1</td>
<td>Chandelier</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Pendant</td>
<td>42&quot;</td>
</tr>
<tr>
<td>B</td>
<td>Beta Calco</td>
<td>Dennis</td>
<td>20-1204 CH LP-1 DB DC</td>
<td></td>
<td>Desk Light</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Suspended</td>
<td>27&quot;</td>
</tr>
<tr>
<td>C</td>
<td>Beta Calco</td>
<td>Ring</td>
<td>9320 20 DB 552024</td>
<td></td>
<td>Semi-Recessed Can</td>
<td>General Task</td>
<td>Receptacle</td>
<td>Ceiling</td>
<td>6&quot;</td>
</tr>
<tr>
<td>D</td>
<td>Beta Calco</td>
<td>Betta 22</td>
<td>22227 1 DB</td>
<td></td>
<td>Downlight</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Suspended</td>
<td>42&quot;</td>
</tr>
<tr>
<td>E</td>
<td>Beta Calco</td>
<td>Reflection</td>
<td>26/124 1 1 DD/OH DC DB</td>
<td></td>
<td>Chandelier</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Suspended</td>
<td>39&quot;</td>
</tr>
<tr>
<td>F</td>
<td>Beta Calco</td>
<td>Skip</td>
<td>11 9924 CP-2N 1</td>
<td></td>
<td>Can</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Recessed</td>
<td>8&quot;</td>
</tr>
<tr>
<td>G</td>
<td>Planax</td>
<td>Opeka</td>
<td>53-82240</td>
<td></td>
<td>Adjustable Track Lighting</td>
<td>Spot Lighting</td>
<td>Ceiling</td>
<td>Flush</td>
<td>15&quot;</td>
</tr>
<tr>
<td>H</td>
<td>Lithon</td>
<td>F-Vertical Compact Flu Double</td>
<td>LF91812(2DC2820, R. 85/1CCF)</td>
<td></td>
<td>Recessed Can</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Recessed</td>
<td>0&quot;</td>
</tr>
<tr>
<td>J</td>
<td>LSI Industries</td>
<td>SB3</td>
<td>Plugin Grade Pendant, 24</td>
<td></td>
<td>Recessed Tool</td>
<td>General Task</td>
<td>Ceiling</td>
<td>2&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>K</td>
<td>Night Guard</td>
<td>Vantage</td>
<td>VNGRCA15SC</td>
<td></td>
<td>Emergency Exit Sign</td>
<td>Emergency</td>
<td>Wall/Ceiling</td>
<td>14.25&quot;</td>
<td>10.1&quot;</td>
</tr>
<tr>
<td>L</td>
<td>Peerless</td>
<td>Partial</td>
<td>BRM# 2 75% Partial Up/Down Light</td>
<td></td>
<td>Combination</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Suspended</td>
<td>6&quot;</td>
</tr>
<tr>
<td>M</td>
<td>Peerless</td>
<td>Partial</td>
<td>BRM# 2 75% Partial Up/Down Light</td>
<td></td>
<td>Combination</td>
<td>General Task</td>
<td>Ceiling</td>
<td>Suspended</td>
<td>6&quot;</td>
</tr>
<tr>
<td>N</td>
<td>Planax</td>
<td>Omaha</td>
<td>9211</td>
<td></td>
<td>Pendant</td>
<td>General Task</td>
<td>Ceiling</td>
<td>11.85&quot;</td>
<td>5.81&quot;</td>
</tr>
<tr>
<td>PKG</td>
<td>Function</td>
<td>Manufacturer</td>
<td>Product Name</td>
<td>Product Number</td>
<td>Size</td>
<td>Finish 1</td>
<td>Finish 2</td>
<td>Other Finishes</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>----------</td>
<td>--------------</td>
<td>--------------</td>
<td>----------------</td>
<td>------</td>
<td>----------</td>
<td>----------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>402</td>
<td>White Board</td>
<td>Polyvision</td>
<td>Combination 105 Series White Board with Large Board</td>
<td>G-DC016</td>
<td>48&quot; x 192&quot;</td>
<td>Manufacturer</td>
<td>Style Name/Number</td>
<td>Color Name/Number</td>
<td>Use</td>
</tr>
<tr>
<td>403</td>
<td>Security Screen</td>
<td>Steelcase</td>
<td>Digital Overhead</td>
<td>Digital Overhead 3.5</td>
<td>Steelcase</td>
<td>Style Name/Number</td>
<td>Color Name/Number</td>
<td>Use</td>
<td></td>
</tr>
<tr>
<td>404</td>
<td>Projector</td>
<td>ASA</td>
<td>LCD Projector</td>
<td>TLP-320ULH</td>
<td>10&quot; x 12&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>405</td>
<td>Projector Screen</td>
<td>Polyvision</td>
<td>Digi-Pro Power Screen</td>
<td></td>
<td>12&quot; x 12&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section Six:

Final Presentation Boards
This design seeks to create a space that fosters a learning experience engaged in the discovery of knowledge, insures achievement, promotes teamwork and problem-solving, as well as personalized learning and the discovery of knowledge. This space will serve as academic and social destinations for all users.

The redesign deals with the first floor of Bracken Library. My design focuses on allowing students to work in many different ways within the space. It uses sustainable finishes like cork and bamboo. The new floor pattern is done in cork which will have a much longer life than carpet and the pattern will help break up the large space. I also sought to incorporate the buzz words of Ball State’s new education redefined image.

I have been worked with both Dixie Dewitt, the Financial and Business Services Manager for University Libraries and Dan Stephenson, the resident Interior designer at Ball State. This allowed me to get a real idea of what is needed in the project. My overall goal is to create a space that can serve as an escape for students and faculty where they can work, study, socialize and hang out.
Section Seven:

Furniture Manual
Item: H350-SB27
Tag #: S6
Quantity: 32
Description: Enea Cafe Counter Stool
Manufacturer: Steelcase-Brayton

Finish:
A. Standard Wood
   W-10 Natural
B. Silver Metallic

Additional Information:
25.62” Standard Overall Height
Wood Seat and Back
Item: TS30301
Tag #: S2
Quantity: 171
Description: Jack Task Chair
Manufacturer: Steelcase-Turnstone
Use: Student Computer Workstations

Finish:
A. Design Tex
   Conservation 2862
   Chery Stone 301

Additional Information:
No Arms
Soft Casters
Item: TS4TRN48
Tag #: T3
Quantity: 8
Description: Groupwork Round Table Top
Manufacturer: Steelcase-Turnstone
Use: Groupwork Tables

Finish:
A. Plastic Laminate
   Vanadium Fiber

Additional Information:
Item: TS4TBASE28
Tag #: M1
Quantity: 8
Description: Group Work Table
Base 28" Diameter
Manufacturer: Steelcase-Turnstone
Use: Groupwork Tables

Finish:
A. Sterling Metallic Paint

Additional Information:
Item: 126201ST
Tag #: S4
Quantity: 1
Description: Kart Task Stool
Manufacturer: Steelcase-Vecta
Use: Groupwork Counter Task Seating

Finish:
A. Design Tex
   Conservation 2862
   Cherry Stone 301
B. Vecta
   Powdercoat 4135
   Black (1014)
C. Shell 6400 Black (2021)

Additional Information:
Hard floor castors,
Extra Seat Foam