FACILITIES DESIGN ASSIGNMENT

(Signature Assignment)

Abegail Prado

Towson University

**Introduction**

This facilities design assignment is made for an elementary school.The proposed library is located near the entrance of the school building and principal's office, where everyone has an easy access. It has a dimension of 65 by 35 feet. Below are the more detailed design components of my proposed library design.

**Samples of Programs**

The library media center has different programs that cater students, teachers, staff, visitors and parents.

1. *Circulation*

Students from Pre-K to 5th Grades can check-out books every week, with the limit of one book for first and second grade, two books for third and fourth grade and five books for fifth grades. Every month, the library is able to circulate an approximate of 4,000 books.

1. *Full class and small group instruction*

Each class from all grade levels has a fixed schedule assigned by the Media Specialist and flexible schedules requested by subject teachers. The spaces can also be used for small group collaboration of students or teachers. There are eight square tables and thirty-two chairs in the class area for instructional purposes. The square tables can be pushed together to allow larger group to work together and can easily be moved around the room.

1. *Storytelling*

This program is designed for the pre-k, kindergartens, and first to third grade students. Students will sit on the carpet for read-aloud storytelling time. There are also movable chairs around the carpet that students may use. This program allows planning model thinking aloud with students during storytelling time. The librarian talks through the students thinking and problem solving to get to the finished product. Sometimes, the librarian will use other strategies like puppet show or singing and dancing.

4. *Browsing, Research, and Accessing Online Resources and Catalog*

Computers are very much important for the 21st century learners. According to American Library Association, "Today’s students need to develop information skills that will enable them to use technology as an important tool for learning, both now and in the future." Students should have access to computers in the library to browse for websites and online resources available for research. There are ten desktop computers positioned in the computer area of the library for everyone to use. The library provides databases that can be used by students, teachers and staff when doing research. The library uses Destiny as online public access catalog, or the program used for searching the book collections, finding if the book is available, making reservations, and writing book reviews.

Examples of databases used for research and information:

* [Library Catalog](https://destiny.mcpsmd.org/common/welcome.jsp?site=301)  [PebbleGo](http://www.pebblego.com/content/choose_product.php" \o "PebbleGo " \t "_blank)- Password Required
* [Encyclopedia Britannica](http://school.eb.com/)- Password Required
* [CultureGrams](http://online.culturegrams.com/kids/index.php)- Password Required
* [SIRS Discoverer](http://discoverer.prod.sirs.com/discoweb/disco/do/frontpage)- Password Required
* [Sailor](http://www.sailor.lib.md.us/) [Image Quest](http://quest.eb.com/)- Password Required
* [Brain Pop](http://www.brainpop.com/), [Brain Pop Jr.](http://www.brainpopjr.com/), [BrainPopEspanol](http://esp.brainpop.com/" \o "BrainPop Espanol" \t "_blank)- Password Required
* [Big 6](http://www.big6.com/) [Super 3](http://academic.wsc.edu/redl/classes/tami/super3.html)

5. *Workshops, Meetings, and Seminars*

The library media center is also open to use for workshops, seminars and monthly faculty meetings. The lecture area allows teachers to sit down, bring their laptops and snacks when attending these functions. Also, the computer area is available to use for a small group technology workshop. This is convenient for everyone, because traveling from library to a computer lab will be prevented, although a computer lab is also available for a bigger group workshop/seminar. Teachers may use the free wireless Internet in the media center if they bring their own laptops or tablets.

6. *Morning Show*

The library media center has a small studio room that provides access for students and the media specialist during the morning shows. Morning shows are done at 9:00 A.M., where student newscasters lead the Allegiance to the Flag, make morning announcements, and promote reading to the school. The room has a green screen, that allows background editing, two chairs with casters, a video and audio control surface that is used to control and put together the video, sounds and background, a flat screen television, and studio cable drawer that keeps all the studio equipments.

7. *Book Fairs*

The library media center has spacious room to promote reading by having book fairs twice a year. Book fairs are done during the first week of October and last week of February. This program promotes reading by inviting students, parents, and people from the neighborhood to buy books to read for children and adults. The library media specialist invites teachers and parents to volunteer as helpers during book fairs, which is a voluntary basis. The sponsor for this program is Scholastics, and the school gets scholastic dollars from the profit of the sales to use for purchasing books.

8. *Family Reading Nights*

The library media specialist invites an author or a librarian from a public library for a book talk and fun activities with parents and students in the media center. This is done during the last Friday of October. Since this is a school-wide activity, not everyone can fit in the media center, so only one grade level is invited in the media center, while other grade levels have their own family reading night activity in their own classrooms. Choosing which grade level will be invited in the media center depends on the kind of book the author/librarian will read in class. This program promotes family bonding, love for reading and school's way of reaching out to parents.

9. *Book Talk / Book Club*

This program is open for third to fifth grade students who are interested to join the book club. The members meet in the media center twice a month, and read the book of the month. Each memberis required to write their book reviews in Destiny Quest, which is the online public access catalog of the library. They can also write book reviews of books they have read in the past. The librarian provides activities and open discussions during the book talks. A member is also invited to give a summary of the book during the morning show. This program promotes love for reading, writing, and literacy skills.

10. *Quiet Reading Time / Planning Time*

Teachers, students and staff are always welcome in the library media center. The internet, computers, printers and space are free to use for planning time. A couch, small reading chairs and the lecture area are available for quiet reading.

11. *Write-a-Book*

All students are required to participate in the elementary-wide write-a-book program. This program is flexible to all subjects and meets the Common Core Standards. Writing a book helps to develop students’ reading and writing skills. This is sponsored by Studentreasures.com, a company that provides free writing kits and online publishing for students and teachers. Publishing is free, and parents may order more copies with payments. The students begin by writing and drawing their storyboards on the writing kits. After the given deadline, the final storyboards will be compiled and submitted to the librarian. The librarian submits all writing kits to Studentreasures and wait for publication date. After the publication date, students will receive their own hardbound books in three to four weeks.

**Floor Plan Design**

1. *Appendix A -* **Ground Floor Plan**

*.* This floor plan is designed using CAD by Architect Arnulfo Martinez. The library media center is measured with length of 65 feet and width of 35 feet. There is a computer area, storytelling area, presentation and lecture area, circulation area, librarian’s office and work area, studio room, storage room and communication room, and a small bathroom.

1. *Appendix B* – **Library Design of Floor Plan**

This diagram is myproposed design using Microsoft Visio. This design shows a more user-friendly diagram of what the library looks like, which are not drawn in the architectural ground floor plan design. There are labeled shelves, dictionary stand, drop box, bulletin boards, emergency lights, LCD televisions, smart board, projector, green screen, video cameras, labeled storage cabinets and exit sign.

1. *Appendix C* – **Audio Visual (AV) Line Drawing**

This diagram shows a detailed controlled flow of data in the library media center.

* 1. *AV Wall Plates*

In the diagram, the AV wall plates are the red tiny square drawing on the wall. The wall plate input has VGA & 1/8" audio plus HDMI option. This can be used when plugging a laptop or visual presenter that can be displayed on the LCD televisions or smart board. The bold black lines in the diagram show how data from a wall plate goes to the AV rack.

* 1. *AV Rack*

The audio visual rack houses all the vital equipment and processors that controls the signal flow from computers to projectors, or Blu-ray to television. There is only one AV rack found in the communication room. Once it received data from the wall plates (where the laptop for example was plugged in), it will send the data to the output device (example LCD television or projector). The output flow is the green line in this diagram.

The AV rack houses the following equipments:

1. Control processor
2. Speaker Power Amplifier
3. Video & Audio switcher
4. Audio/ Video Scalers& Processors
5. Audio / Video Transmitters, Receivers & Extenders
6. Live production processor
7. Video modulator
8. uninterruptible power supply (UPS)
9. 3x3 feet credenza.
10. Blu-ray player
11. 6.4 inch dual video monitor
12. VHS player

A movable AV cart is also available to use in the library or in the school’s multipurpose room during school programs. This cart has the Blue-ray player, VHS player, and laptop that is available to use in the library, computer laboratory or in the school’s multipurpose room during school programs.

1. *Appendix D* – **Public Announcement (PA) and Network System**

This diagram shows the signal flow for public announcement and local area network system. Sounds during announcements from the office, from the studio room, CD, DVD or anything plugged in the wall plates are sent to all three overhead speakers attached on the ceiling.

The local area network is also found in the communication room. The local area network rack (LAN) has the managed network switch and wireless router. It allows Internet access to the whole building and wireless Internet access in the library media center.

5. Appendix E - Computer Laboratory

The diagram shows the floor plan of the computer laboratory outside the library media center. More detailed description of this room is found on page 13.

12. *Book Drop*

There is a book drop outside the library, on the left side of the entrance *(see Appendix J)*. Teachers, staff and students can return their loaned materials in the book drop. There are two separate slots for books and media (CDs, DVDs or audio books). Patrons who wish to renew their loaned materials have to enter the library and ask the librarian.

**Educational Specifications**

1. *Storytelling Area*

The storytelling area is located on the left side of the media center just when you enter the room. The area dimension is 21.25 by 15 feet. It has an oval carpet where students can seat during story time. There are also thirteen colorful chairs on casters that allow them to be movable. These chairs are easy to clean with a damp cloth and non-slip. The library media specialist has an option to read with just the book or use a visual presenter and attach it to the wall plate so that the book pages will appear on the television screen. The librarian can also have a puppet show or watch a movie in this area.

2. *Computer Area*

The computer area is an advantage for everyone whenever there is a class in the library that allows the use of computers, because it saves time in traveling to the computer laboratory. The computer area is adjacent to the storytelling area, divided by two movable shelves. The area dimension is 22.5 by 16.25 feet. A printer, scanner, wired and wireless internet are available for everyone who needs to print, scan documents or photos for school projects or assignments, and connect to the Internet with a tablet or laptop. During a small group training or class, the teacher can attach her or his laptop into the wall plate for students to see the presentation on the television screen. The computers can be used to search for books in Destiny, the online public access catalog. Students can also use the computers for research by accessing the research database.

3. *Lecture / Presentation Area*

The lecture and presentation area has a lot of uses in the media center. The area dimension is 25 by 25 feet. There are 32 chairs and eight square tables in the lecture area for students and teachers use. Square tables are movable and can be joined together if desired. There is also a teacher's table where the document camera is placed. A smart board is attached to the wall with a projector. A wall plate can be used when teachers want to use their own laptop for presentation.

The lecture and presentation area can be used by all classes in the building during their fixed library schedule, and flexible library schedule requested by their subject teacher. All specialists are also welcome to use this area if they want to teach their student or read a book with them. Seminars and workshops are also held in this area of the library. This area is also reserved for faculty and staff meetings as requested by the administration. Book fair also uses most of this area to display books for sale. Teachers who wish to collaborate with the media specialist also use this area during collaboration meetings.

4. *Circulation Area*

Circulation area is one of the key departments of the library. It has a dimension of 11.25 by seven feet. The circulation desk is located near the entrance of the library media center. Services done by the librarian are:

* ending and returning books, CDs, DVDs, audio books, equipments
* repairing books
* renewing loaned books and materials
* accepting fine payments and printing receipts
* sending out overdue notices to patrons
* answering phone calls and making outside calls
* documenting library reports and statistics
* assisting patrons when looking for books
* assisting patrons in printing and scanning pictures/documents
* documenting everyday library activities and requests in the library log book
* recording weeded books before the appropriate office collects them­­.

5. *Librarian's Office*

This area is strictly for the library media specialist or assistant librarian's use only. It has a dimension of 8.125 by 8.75 feet. The office has two chairs, a computer, printer, telephone, desks, drawers and file cabinet. The librarian may use this room for private use like talking to the administration, teachers or staff where students cannot interrupt. She can also work in this room when all other areas in the library are occupied by a class. This way, she cannot be disturbed when working. There is a filing cabinet to keep important records and documents safe, and other library instructional materials like puppets, costumes and decorations are kept in this room.

6. *Studio Room*

This room is exclusively used only for morning show program and school announcements when needed. It has a dimension of 13.75 by 15 feet. It serves as the live production and green screen studio for the students. The live production video switcher and live audio mixer are inside the studio room together with the video cameras and microphones. A laptop can be used for talents' teleprompter, and a television attached to the wall will serve as the "confidence" monitor for the talents to see themselves during the live show. A storage cabinet keeps all equipments needed in the studio and has a safety lock. The morning show program is aired everyday, ten minutes after all the students are in their classrooms. It would last for a minimum of ten and maximum of twenty minutes. The talents are the students from different grade levels. Teachers, specialists and administrators can also make announcements during the morning show.

7*. Storage / Communication Room*

The storage and communication room keeps the AV rack (refer to page 7 for definition) and the local area network (LAN) together with the storage cabinets. It has a dimension of 8.5 by 20 feet. Proper ventilation is needed for this room because the AV rack and LAN is always on. All storage cabinets have locks to keep all equipments safe (document cameras, overhead projectors, laptops, tablets, movable AV Rack, clickers). A telephone is available in this room for making calls when there is network problem.

8. *Restroom*

A small restroom is found between the storage room and librarian's office. It has a dimension of five by five feet. It has cold and hot water. There is a toilet and sink in the restroom which can be used by teachers and staff. This restroom is very convenient because teachers do not need to walk to the office to use the restroom.

9. *Computer Laboratory (See Appendix E)*

The computer laboratory is located next to the media center. It has a dimension of 42.5 by 32.5 feet. The computer lab is available by schedule. Teachers ask for scheduling in the media center or by sending an email to the librarian. A Google doc is also available for all staff to check the availability of the computer lab.

The room has 60 computers and chairs available for students and teachers. It can accommodate two classes at the same time. It has a white board, a recessed projector screen, a ceiling mount projector, program speaker, an equipment rack, and a table with a document camera, optional laptop, and annotation smart monitor / smart podium *(see Appendix F)*. An annotation smart monitor allows the user to connect with the computer and display the content to the whole class. The user can navigate the lesson material, write notes during lessons, highlight key points, capture moments and ask questions as he/she presents (Smart Technologies, 2015). This lab is also available for computer training: software, web, database, OPAC, and other computer based instructional training. Although this room is open for everyone, it is important that the librarian keeps the keys and keep it locked when not in use to avoid students from hiding or playing inside the computer lab.

10. *Shelving*

There are 5,000 books in this library's collection. The picture books are shelved in a 42" double-faced mobile wood shelving *(see Appendix G.1)*. There are four mobile books shelves to keep the picture books. The reference books are shelved in one 42" double-faced mobile wood shelving. There is also a 42" oversize publication stand that has five pull-out shelves to keep other reference books. Picture and reference books are placed on the middle of the room; between the computer area and lecture area, and between the computer area and storytelling area. Shelving should have casters for easy moving, to divide one area from another, and create traffic patterns (MCPS, 2010).

Fiction books are shelved in 72" single-faced shelving *(see Appendix G.2).* There are six book shelves to keep the fiction books collection. They can be found on the right side of the lecture area.

Non-fiction books are shelved in eight 72" single-faced shelving close to the wall *(see Appendix G.2)*. There are seven book shelves to keep the non-fiction books collection. They can be found on the storytelling area. Step stools are available for anyone who needs to reach the upper shelves.

Magazines and periodicals are displayed in a 60" Single-faced— three periodical, three flat shelves *(see Appendix G.3)*. Magazine subscriptions are the Library Journal, Instructor Magazine, Time Magazine, Kids National Geographic and Disney Family Fun.

Other shelves for keeping CDs, DVDs, media and audio books are kept on a 84" sliding glass door bookcase *(see Appendix G.4)*. The shelf has a lock and attached to the wall for maximum safety.

There is an additional 72" single-faced shelving *(see Appendix G.2)* attached to the wall in the circulation area. It is used to keep damaged, reserved and weeded books that need to be recorded.

11. *Reception Area*

Teachers, staff, visitors and students can sit on the comfortable couch near the circulation desk. It helps patrons stay productive as they are waiting or lounging (Demco, 2015). It has two laminated board tablets that provides handy surface for paperwork, book or laptop *(see Appendix H).*

**Environmental Design Elements**

**1. Heating, Air-conditioning, Ventilation**

Thermostat set points are set standardized temperatures for schools in heating and cooling season. In the winter the set points is 70 degrees; in the summer the set point is 76 degrees. To keep our buildings as energy efficient as possible, it is recommended that we maintain these set points (MCPS, 2013).

The library media center has a centralized air-conditioning and heating system similar to other rooms and classrooms in the school building. Inside the library, there is a digital thermometer and thermostat control switch, so that the librarian can still control the temperature of the room. The temperature should follow the standardized temperature requirement. Any issues like too much coolness or hotness can be reported to the building service manager of the school.

The storage and communication room has a separate thermostat control switch, because the temperature in this room needs to be a little cooler than the other rooms. The LAN and AV rack are always turned on, which makes the room warmer.

There is indoor air quality ventilation in the media center. Classrooms can hold dozens of occupants each day, various contaminant sources can be present, and school ventilation units continuously supply large volumes of outdoor air, which can be dry, humid, or dirty (MCPS, 2011). To ensure that the IAQ in the library is safe and comfortable for everyone, the librarian should follow the following guidelines:

1. Cleaning products like glues, paints, science products, etc. should be checked first from the MCPS' [Approved Products Database](http://www.montgomeryschoolsmd.org/departments/iaq/products.shtm)and verify they are approved for use.
2. Do not use pesticide products in the library, because they contain compounds that are harmful to humans.
3. Thermostats must be away from obstructions and heat sources in close proximity. If heat-generating objects (such as lamps, computers, and other electrical appliances) are placed near the thermostat, it will sense air temperatures that might be much higher than those felt by room occupants, which can cause the ventilation unit to under heat the room during the winter and overcool the room during the spring and summer (MCPS, 2011).
4. Ventilation units must have unobstructed supply and return air flow. Books, shelves, toys, furniture or boxes should not be placed in front of supply, otherwise poor temperature control and ventilation unit damage may happen.
5. Do not use space heaters because these can present a fire hazard and disrupt ventilation unit operation.
6. Always keep the air in your classroom clean by allowing building service personnel to clean room surfaces regularly and maintain your ventilation unit (which contains an air filter)
7. Always keep the doors and windows closed especially when the AC and heater are turned on. Open exterior windows and doors can also allow increased entry of outdoor contaminants (dust, dirt, pollen, mold spores), affecting occupants with allergies and asthma (MCPS, 2011).
8. Please ensure that decorative items do not cover more than 20% of the wall area in your room if your room is not equipped with sprinklers (MCPS, 2011). *Do not attach* anything to ceilings anddo not decorate the library with highly-flammable items like crepe papers, tree branches, leaves, etc.
9. If there are plants in the library, avoid over-watering them and consider replacing the soil periodically. Do not place the plants near the ventilation grilles and thermostats, and especially not on top of unit ventilators.
10. Upholstered furniture, stuffed animals, pillows, and cushions can collect dust. Regularly clean furniture and do not use stuffed animals, pillows and cushions to avoid allergic particles that may be harmful to students and teachers.

**2. Lighting**

The lighting in the library media center is bright and does not rely on the natural light because natural light irritates the eyes affects readers' vision (Mei, 2014). The concrete ceiling is black, and overhead fluorescent lighting fixtures with some cloud ceiling drop. This presents a good effect on the lighting in the lecture area. Lamps for fluorescent lighting fixtures shall be T8-3500K lamps(MCPS, 2009). Overhead fluorescent lighting through low mercury T-8 lamps and electronic ballasts reduces lighting costs by 35 percent (MCPS, 2014).

The light fixtures in the storytelling area is specially designed for this library with oval lighting. The computer area also has a rectangular light fixture on the ceiling. Besides the usual building lights, additional lighting is provided inside the studio room. These lightings are attached to the ceiling grid. Emergency lightings are located in all areas of the library. Emergency lighting in the lecture area does not affect the Smart board screen.

There are three separate lighting switches for the storytelling area, the instructional area, and the circulation area. Dimming capabilities are recommended in the storytelling and instructional areas (MCPS, 2010). All light switches will be toggle switches.

**4. Acoustics**

Cloud ceiling drops provides acoustic sound control in the media center. These drops are attached to the ceiling of the lecture area. Studio room has fabric covered high-density glass wool panels for even absorption throughout the audio range. Acoustical reinforcement helps eliminate ambient noise.

**5. Power Requirements**

Power outlets will be according to standard building requirements (MCPS, 2009), with some extra additional floor outlets on the lecture area located under the table. An interruptible power supply will be used in the AV rack to support the system on power surge and power interruption. To comply with all applicable codes and standards for energy efficiency in design of school buildings, as mandated by Montgomery County, Montgomery County Board of Education Energy Policy, BOE Policy On Energy Conservation, and MCPS Electricity Guidelines, refer to the MCPS Policies and Guidelines that are posted on the schools systems website at www.mcps.k12.md.us (MCPS, 2009).

**6. Carpeting**

There is wall to wall carpeting in the library media center, including the studio room, and excludes the bathroom, computer room and storage area. There is floor seating in the storytelling area, and a smooth area rug will be used. Carpet or area rugs should be easy to clean. Any new rugs or furniture that might off gas chemical vapors should be aired out before being brought to the school (MCPS, 2011).

**Accommodation for Special Learners**

The library was designed and constructed in such manner that the facility or part of the facility is readily accessible to and usable by individuals with disabilities (ADA, 2010). Under Section 504 of the Rehabilitation Act of 1973 and Americans with Disabilities Act, the following students are considered as students with disabilities:

* Students with attention-deficit disorder or ADHD,
* Students with learning disabilities who do not manifest a significant discrepancy between intellectual ability and achievement,
* Students who are transitioned out of special education programs,
* Students who are considered to be socially maladjusted,
* Students who have a history of drug and alcohol abuse,
* Students with health needs, and
* Students with communicable diseases, such as AIDS

(Smith, 2001).

Some adaptive technologies that can be used to help special learners are:

1. Available rack-ball mouse or arm rest to persons who needs help to better navigate the Internet.
2. Magnify the screen with Windows 7 operating system software. To do this you have to press Ctrl + Esc (or the Windows logo key), then press R and type magnify. The program will appear, then press Enter.
3. Voice recognition software like Dragon Naturally Speaking, which dictates documents, search the web, sends email, and more on your computer.
4. A real magnifying glass can be provided for students or teachers with low vision. This will help them in looking for books and reading small written call numbers on the spine of the book.
5. Audio books are available for dyslexic students.
6. All doors and areas in the library are wheelchair accessible.
7. All areas in the library are measured and wheelchair accessible.
8. All tables and computer tables in the library has a height requirement that will allow access for wheelchair users.

**Signage and Displays**

There are two bulletin boards in the library media center, one inside near the computer area and one outside the library. The bulletin board inside the library is used for posting library rules, computer area rules and posters for Black Eyed Susan books. The bulletin board outside the library is used to post announcements and posters for the National Book Festival or Scholastic book fair.

The signs for each book area are hanging from the wall above the shelves. It is made of laminated plastic with bold letters: FICTION, NON-FICTION, PICTURE BOOKS, COMPUTER AREA, CIRCULATION, and REFERENCE. Non-fiction books are arranged by DDC order and picture books are arranged in alphabetical order, and their signs are placed on the shelves.

The library entrance is adjacent to the principal's office. There is a quote from Dr. Seuss' at the door (Oh, the places we will go!), vibrant colors were used and the name "Library" painted on the floor *(see Appendix I)*.

Room labels for the storage room, computer lab, bathroom, librarian's office and studio room are attached above the glass doors. Storage room a signage, "Do not enter." The bathroom has signage that says "For staff use only". The computer lab has door sign that says, "Ask the librarian for the key."

In the lecture area, a quote from Dr. Seuss is painted on the wall, which says, "The more you read, the more things you know. The more that you learn, the more places you'll go" *(see Appendix K)*. Words that describes good character traits are written on the wall on top of the fiction book area. These words are: caring, respect, love, faith, believe, kindness, dedication, happiness, and courage.

In the storytelling area, the walls above the shelves are painted with safari animals. The words, "read, believe, achieve" are written on the drop ceiling with hanging birds for aesthetic purpose.

**Outcomes and Responsibilities**

The library media center is designed to provide collaboration and leadership partnership with the school administration. All areas and equipments can be used to utilize the teachers and staff's needs in instruction. The librarian is always available for scheduling, collaboration, and requesting workshops that everyone in the building can benefit. School administrations' plans are always supported with the school library media program. The SLM is also available for leadership trainings and workshops that is open to all teachers of the school and the district. All programs are updated regularly in the school or media center website, which is available for everyone.

**Others**

*Doors*

Glass doors are used in the media center. The doors of the studio and storage rooms are sliding glass doors. Windows can be opened if desired, although it is not required.

*Technology Equipment for the Library*

1. 3 over head speakers for the Public Address

2. Storytelling area  
  a. 46 inch Flat Display  
  b. Wall plate input that has VGA & 1/8" audio plus HDMI option  
  
3. Computer Area  
  a. 46 inch Flat Display  
  b. Wall plate input that has VGA & 1/8" audio plus HDMI option  
  c. Network router  
  d. Printer   
  
4. Circulation Area  
  a. Wall plate input that has VGA & 1/8" audio plus HDMI option  
  b. Desktop Computer  
  c. Printer/Scanner  
  d. Touch Panel for the control processor. This will be used to route the signals (video & audio) to their

destinations.   
      
5. Lecture area  
  a. Wall plate input that has VGA & 1/8" audio plus HDMI option  
  b. Smartboard w/ Projector  
  c. 2 Program speakers  
  d. Visualizer / Document camera  
 e. Laptop that has Smart software for lecture and annotations  
  
6. Live production studio  
  a. Green screen  
  b . Wall plate input that has VGA & 1/8" audio plus HDMI option  
  c. Wall plate for Broadcast cameras & Microphones   
  d. Video Live Production control surface & Monitor  
  e. Audio Mixer  
  f. Laptop for Teleprompter  
  g. Cameras & Microphones  
  h. 40 inch Flat Display for confidence monitor  
  
7. AV rack   
a. Control processor  
b. Speaker Power Amplifier  
c. Video & Audio switcher  
d. Audio/ Video Scalers & Processors  
e. Audio / Video Transmitters, Receivers & Extenders  
f. Live production processor  
g. Video modulator   
h. UPS (uninterruptible power supply)  
i. 3 x 3 ft credenza.   
j. Bluray player  
k. 6.4 inch dual video monitor  
  
8. Local Area Network Rack (LAN)  
a. Managed Network switch  
b. Wireless router

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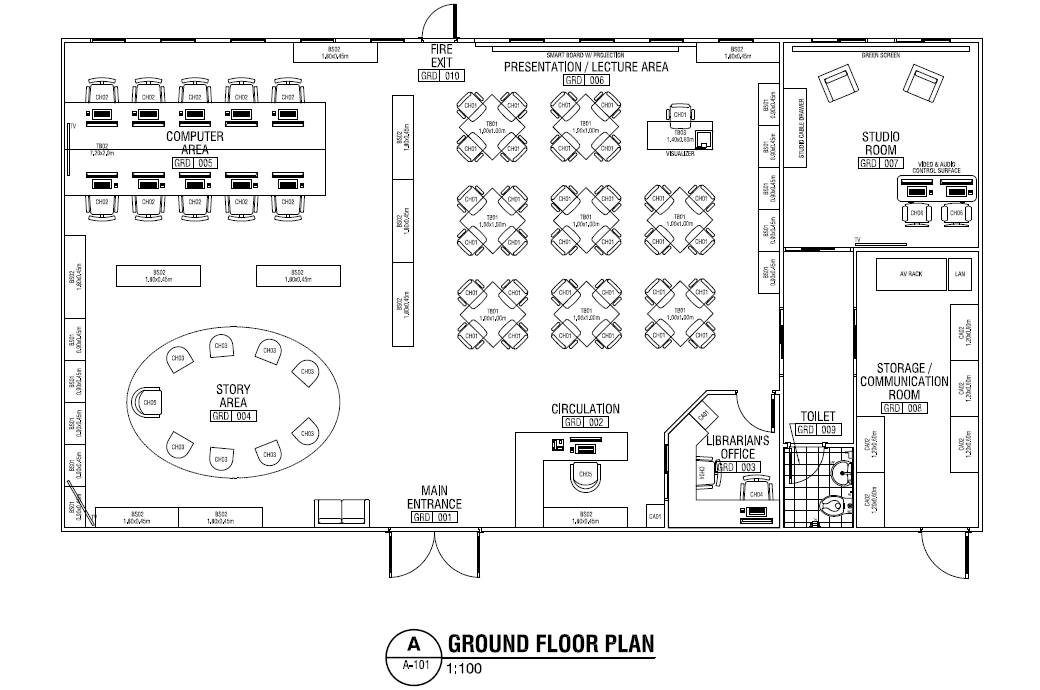
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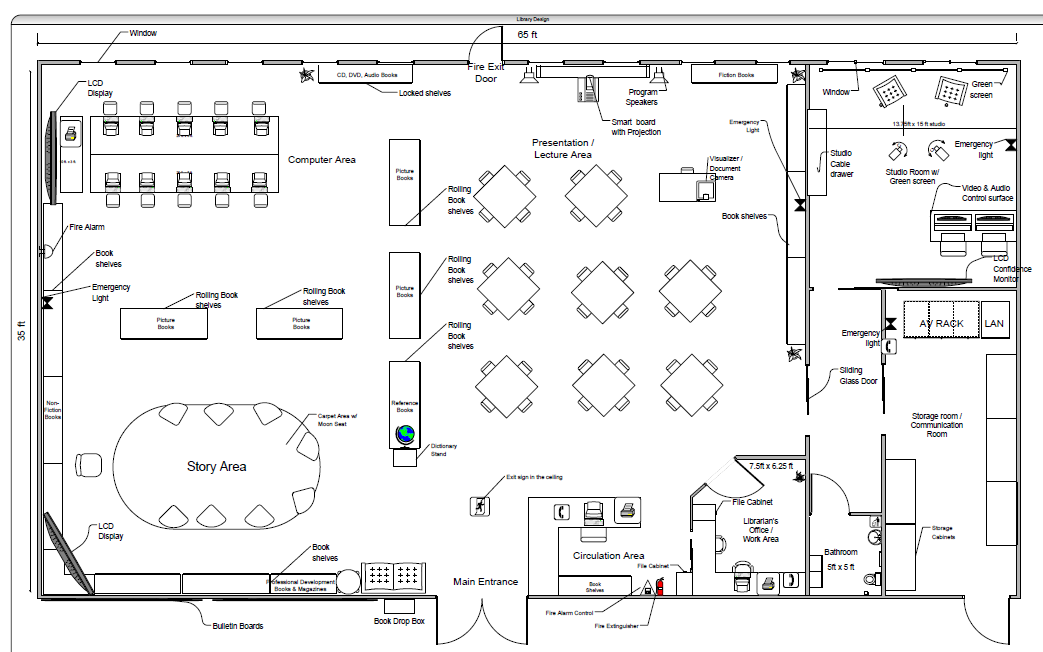
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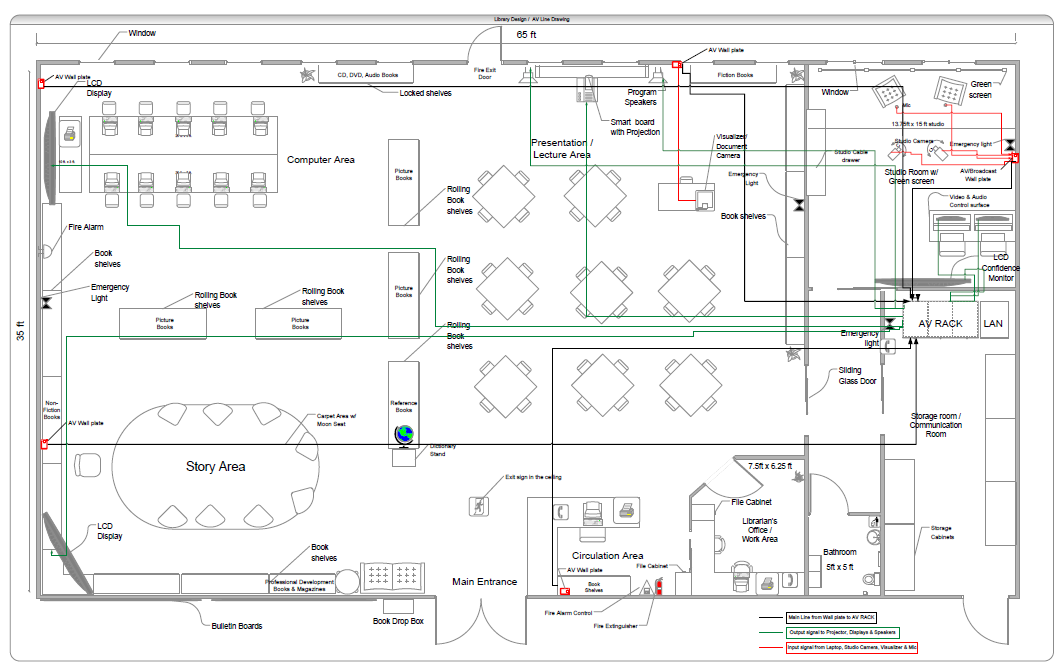
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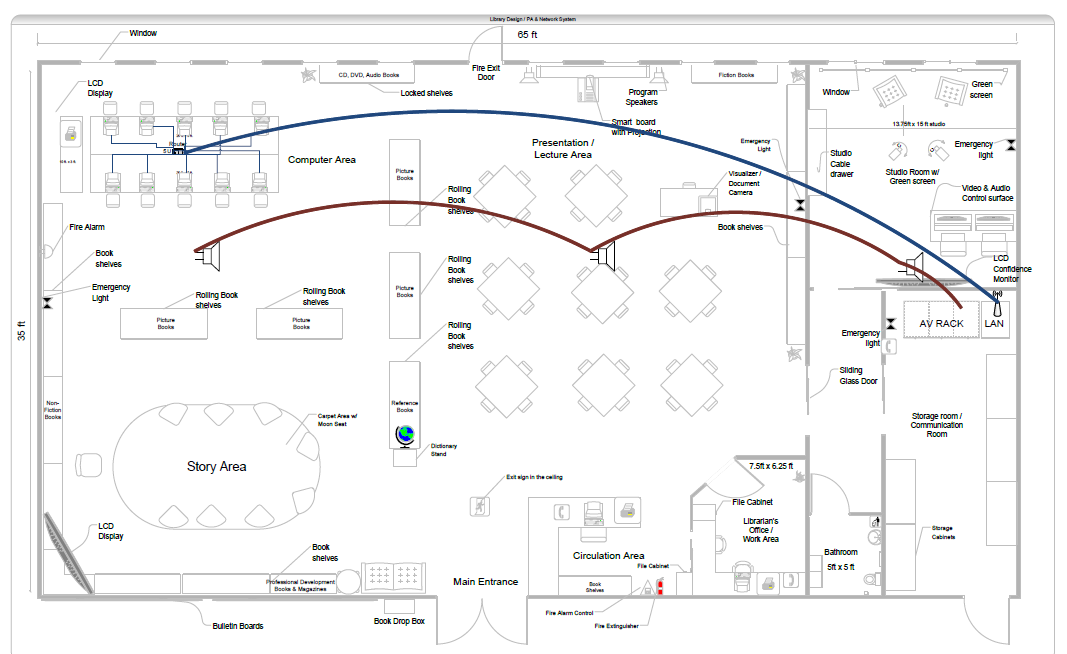
**Appendices**

*Appendix A* – **Ground Floor Plan (Architect Design using CAD)**

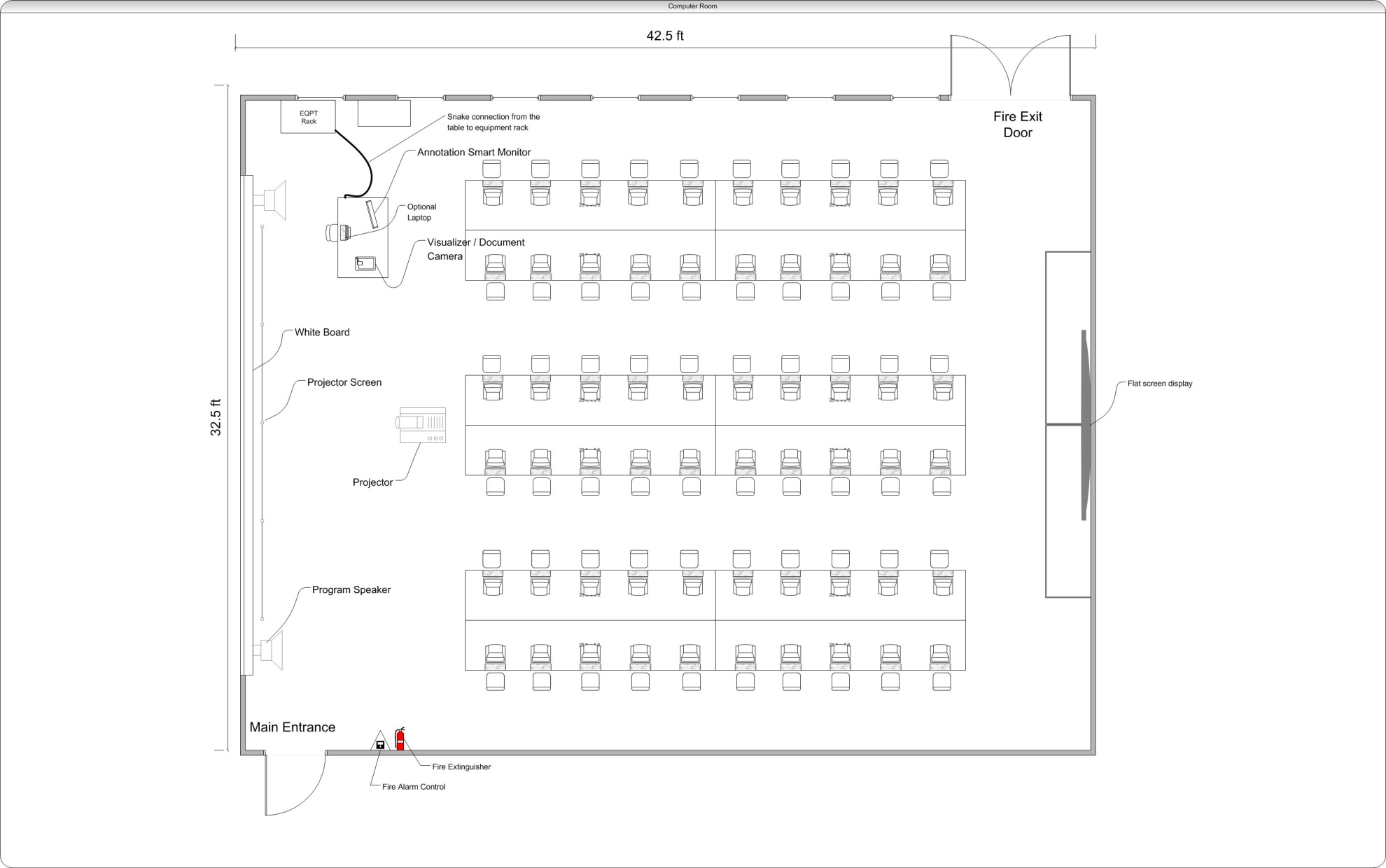
*Appendix B* – **Library Design of Floor Plan (My proposed design using MS Visio)**

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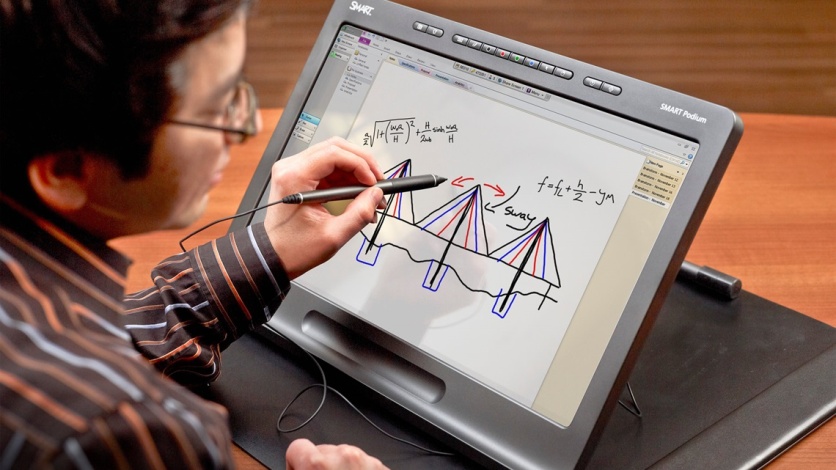
*Appendix C* – **Library Design / Audi Video (AV) Line Drawing**

*Appendix D* – **Public Address (PA) and Network System**

*Appendix E -* **Computer Laboratory**

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*Appendix F* **- Annotated Smart Monitor**

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*Appendix G* **- Shelving**

1. Demco 42" Double-faced Mobile Wood Shelving

* 1" thick panels with multi-ply red oak veneers, 3⁄4" thick shelves
* holds up to 150 lbs.



2. Demco Oversize Publication Stand

* 43 x 303/4 x 25" (front 41"H)
* five pull-out shelves w/ steel glides



3. Demco Single-faced—3 Periodical, 3 Flat Shelves

* 60" x 36" x 12"



4. Demco Sliding Glass Door Bookcase

* 84 x 36 x 12"
* Two upper and two lower doors
* include key locks for safety
* six shelves
* For maximum safety, wall attachment is recommended.

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Appendix H **- OFM Interplay Sofa**

* rotating 15"W x 11"D laminated wood tablet
* stain resistant
* made of sturdy wood frame and cushion
* locking 2" diameter casters for stability and mobility



Appendix I - **Library Entrance**

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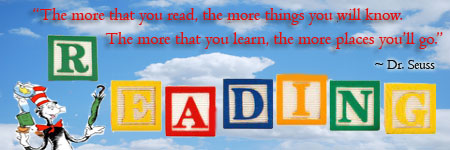
Appendix J - **Book Drop**

* Placed outside the media center between the bulletin board and entrance.



Appendix K - **Quote design**

* I personally designed this using Adobe Photoshop.



Appendix L – Actual designs

Storytelling Area

Lecture Area

