

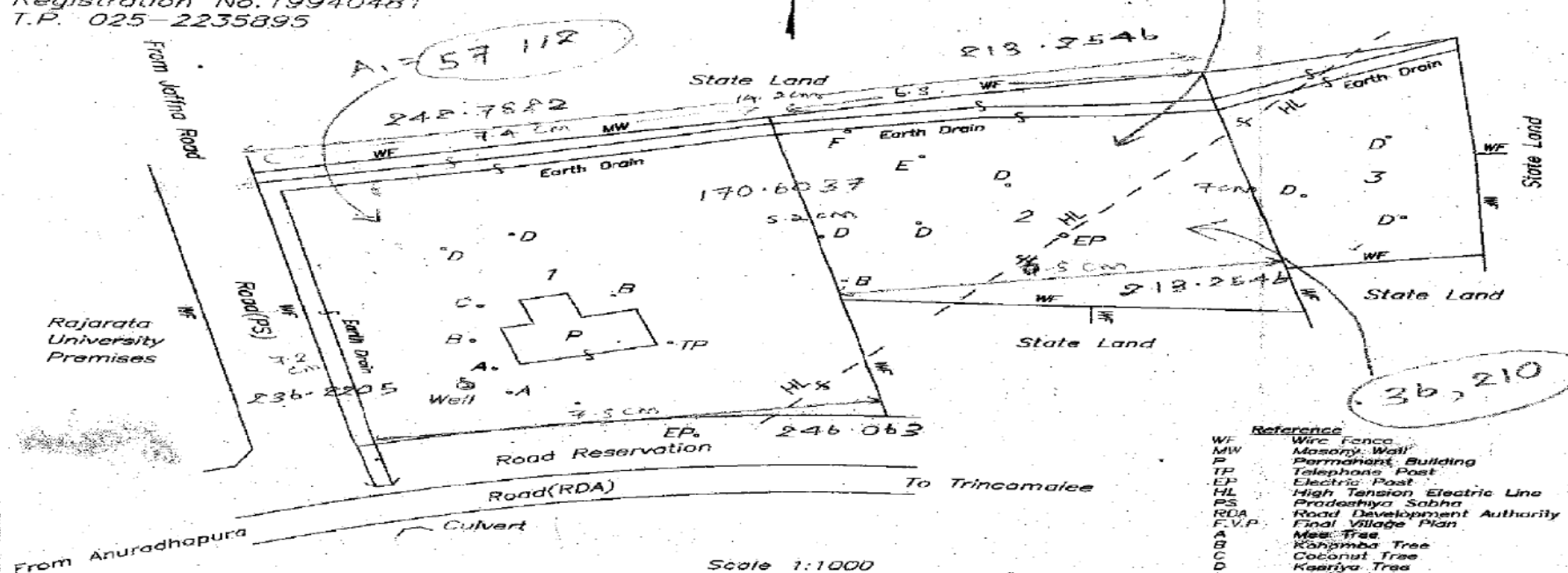
Faculty of Technology

Rajarata University of Sri Lanka



A.M.B. Ratnasiri (J.P.)
 Licensed Surveyor & Leveller
 Court Commissioner & Valuer
 560/A, Godage Mawatha,
 Anuradhapura
 Registration No. 19940481
 T.P. 025-2235895

Plan No. 8472



- Reference**
- WF Wire Fence
 - MW Masonry Wall
 - P Permanent Building
 - TP Telephone Post
 - EP Electric Post
 - HL High Tension Electric Line
 - PS Pradeshiya Sabha
 - RDA Road Development Authority
 - F.V.P. Final Village Plan
 - A Mace Tree
 - B Kahamba Tree
 - C Coconut Tree
 - D Keeriy Tree
 - E Mayilo Tree

Scale 1:1000

PLAN

Of 3 allotments of State land called Mihintalekele, being part of lot 177 in F.V.P. 564,
 Situated in the Village of Mihintale (F.V.P. 564), in Kanadara Korale,
 in the Divisional Secretary's Division of Mihintale,
 in the District of,

ANURADHAPURA

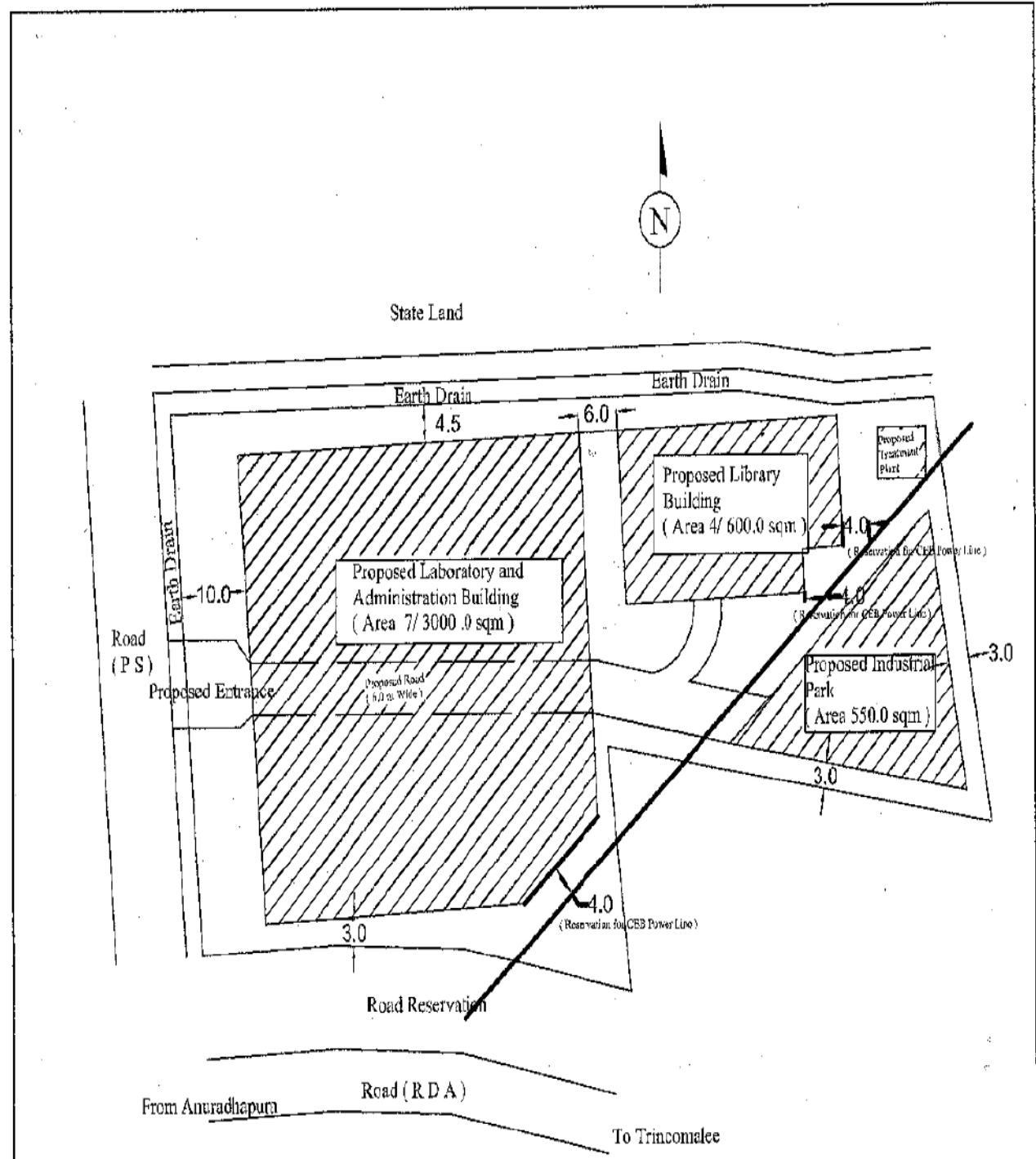
NORTH CENTRAL PROVINCE

Lot No.	Extent			Schedule of Boundaries				
	Hectares	A.	R.	P.	North	East	South	West
1	0.4304	1	0	10.2	State Land	Lot 2 in this Plan & State Land	Road reservation	Road (PS)
2	0.2783	0	2	30.0	State Land	Lot 3 in this Plan & State Land	State Land	Lot 1 in this Plan
3	0.1383	0	1	14.7	State Land	State Land	State Land	Lot 2 in this Plan
Total	0.8470	2	0	14.9				

Furnished at the request of the Registrar, Rajarata University of Sri Lanka.

Date of Survey: 21-10-2017


A.M.B. RATNASIRI
 Justice of the Peace



Total floor area

Cafeteria complex and Services	
Admin Block and Collaborative Cell	
Core Lab	
Library	
Department of Bio - Process Technology	74900ft²
Department of Food Technology	
Department of Electrical and Electronic Technology	38500
Department of Materials Technology	43800
Department of Information Communication Technology	28900
Grand Total	186100
	46525
25% Circulation space	
Final Building Area	232625

Food Technology Laboratory design

		St. No	Area
Food Microbiology and Biotechnology Laboratory	1	50	1000
Natural Products and Functional Food Laboratory	1	50	2000
Food Processing (wet)	1	50	2000
Food Processing (Dry)	1	50	1000
Culinary and Gastronomy Laboratory	1	50	1000
Sensory Laboratory (kitchen +booth+meeting rm)	1	20	1500
Research Laboratory	1	50	1000
Clinical Nutrition Laboratory	1		1000



Food Pilot plant



Gastronomy lab

Bioprocess Technology Laboratory design

Molecular Biology & Biotechnology research Laboratory	50	2000	2000
Microbiology research Laboratory	50	1500	1500
Tissue Culture Laboratory	50	2000	2000
Immunology , Pharmacology & Cell Culture Laboratory	50	1500	1500
Bioprocess Laboratory	50	1500	1500
Planthouse	50	1500	1500
Agri. Technology Lab	50	1000	2000



Department of ICT Laboratory Requirements

- General Computer Lab #1– 2500sqft
- General Computer Lab #2– 2500sqft
- Network Technician Lab – 1500sqft
- IoT and VR Lab – 1500sqft
- Research Lab – 1000sqft

Research Lab



General Computer Labs



Collaborative Study Area



Collaborative Study Area



Materials Laboratories

Laboratory Name	Floor Area (ft ²)
Polymer and General Chemistry Laboratory	3000
Ceramic and Metallurgy Laboratory	3000
Advanced Materials Laboratory	2500
Materials Research Laboratory	1500
Staff Area	500







Department of Electrical & Electronics

Key Spaces (total 10)

Electronic Lab



1800 sqft



x 5



x 50

- ✓ Carry out electronic related practical works
- ✓ Equipment: Oscilloscopes, Signal Generators, Digital Analyzers, Trainer kits, etc.

Telecommunication Lab



1800 sqft



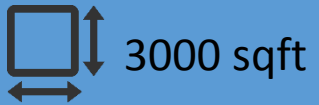
x 5



x 50

- ✓ Carry out telecommunication engineering related practical works
- ✓ Equipment: trainer kits, spectrum analyzers, oscilloscopes, etc.

Electrical & Power Lab



3000 sqft



x 5



x 50

- ✓ Carry out electrical engineering related practical works
- ✓ Equipment: Trainer kits, Motors, Transformers, VSDs, etc.

Robotics & Automation Lab



1800 sqft



x 5



x 50

- ✓ Carry practical works
- ✓ Design & construction of related project works
- ✓ Equipment: PLC Kits, Robotic Kits, Trainer kits, Small hydraulic/pneumatic actuators, etc.

Key Spaces (total 10)

Computer Lab

 2000 sqft

 x 5

 x 50

- ✓ Carry out electronic related practical works
- ✓ Server Room
- ✓ Equipment: Audio Visual related equipment, PCs, Work stations, etc.

Project Lab

 2000 sqft

 x 5

 x 50

- ✓ Carry out telecommunication engineering related practical works
- ✓ Equipment: Soldering stations, 3D printers, PCB Printers, PCs, Work Stations, etc.

Advanced Research Lab

 1000 sqft

 x 3

 x 10

- ✓ Carry out projects under specific and isolated conditions
- ✓ Equipment: Analyzers, oscilloscopes, power supplies, soldering stations, etc.

Instructor's & Report Room

 1400 sqft

 x 5

 x 50

- ✓ Instructor's staying place and document keeping of lab works
- ✓ Furniture & Equipment: PCs, Printer, Cupboards & other office equipment

Key Spaces (total 10)

Student's Common Room



2000 sqft



x Flexible

- ✓ A space dedicated for students
- ✓ Combination of activities like studying, idea sharing, entertainment
- ✓ Equipment: whiteboards, TV, PC, etc.

Book Corner



1000 sqft



x 5



x 50

- ✓ A dedicated space for studying & idea sharing
- ✓ Silence is appreciated but not a must
- ✓ A small collection of most referred books and material

Safety Aspects

Modern Tech

Flexibility

Space Saving

Standardization of International Level

Safety & Protection must be given first priority

- Fire protection
- Hazardous material handling
- Electrical protection
- Emergency eye washers, exits, etc.





Safety Aspects

Modern Tech

Flexibility

Space Saving

Standardization of International Level

Modern technology should be utilized at its best

- Uplift the quality, performance and aesthetic aspects
- Should be more flexible
- Easy functioning and monitoring of activities
- Durable and easy maintenance



- ✓ Wi-Fi coverage for all the labs and key spaces
- ✓ Ethernet and utility supply to the tabletop
- ✓ Access control for identified locations



Safety Aspects
Modern Tech
Flexibility
Space Saving

Standardization of International Level

Flexibility should be implemented where possible

- A space, furniture, equipment or any other facility does not have to be reserved for special purpose. Where possible they should be utilized for different purposes with minor changes

- ✓ Movable lab benches, cupboards, drawers, etc.
- ✓ Power, communication and other services are more flexible
- ✓ Controllable lux levels, foldable furniture, etc.
- ✓ May turn to a lecture room!!!



Safety Aspects
Modern Tech
Flexibility

Space Saving

Standardization of International Level



Space should be utilized at its best

- Maximum benefit should be taken from every space
- But too tight or too compact is not appreciated

- ✓ Drawers, cupboards, racks under benches or on walls are admired if they are not disturbing
- ✓ Furniture, equipment should be able to be stacked while not in use
- ✓ Ergonomic and ease of access conditions must be concerned



Safety Aspects
Modern Tech
Flexibility
Space Saving

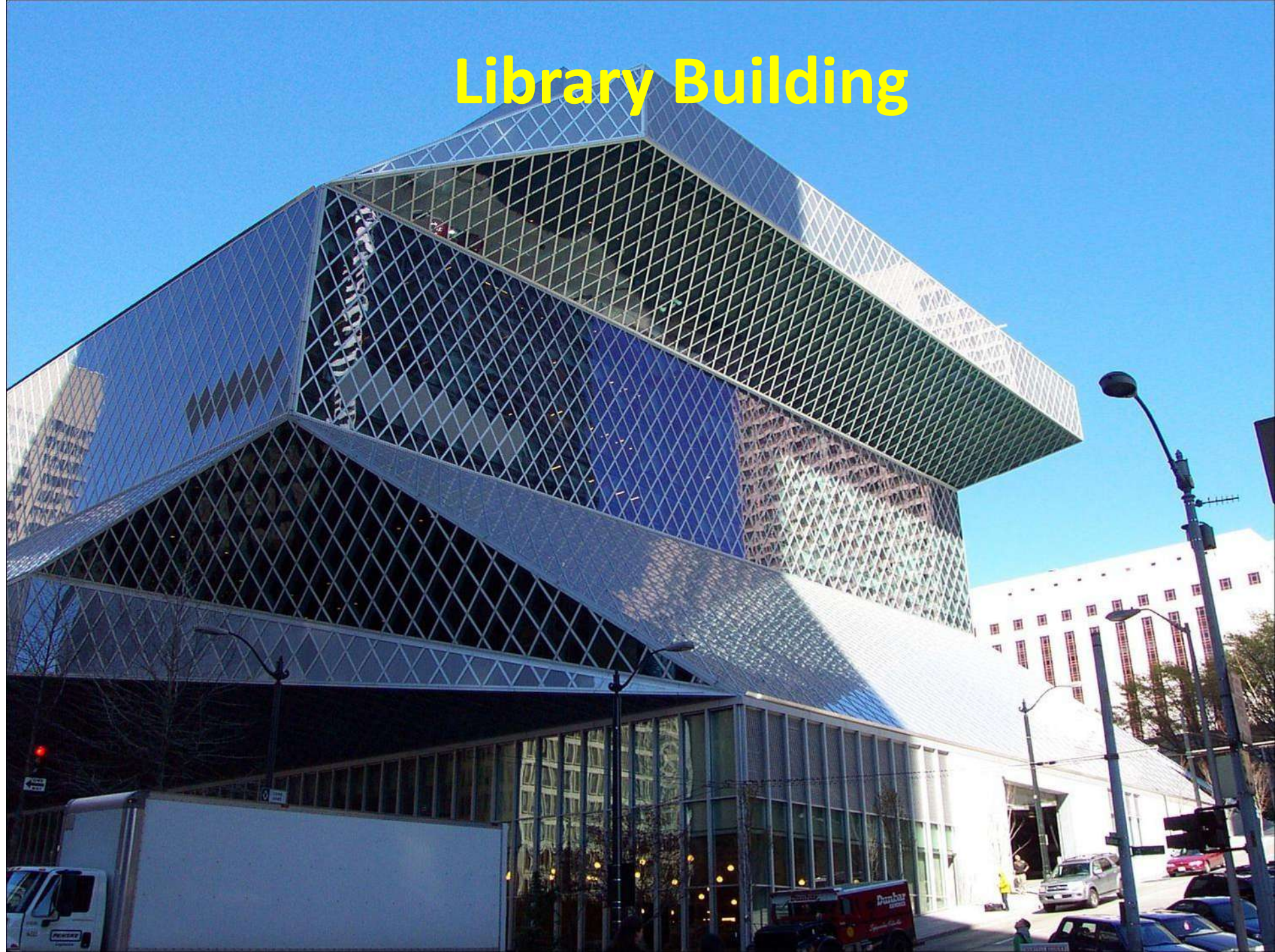
Standardization of International Level



All the conditions must meet international level standards

- ✓ All the facilities must adhere to international standards/protocols/practices
- ✓ Indoor air quality is a main concern
- ✓ Thermal comfort should be according to ASHRAE standards and equipment requirements
- ✓ Electro Static Discharge avoiding flooring and table materials should be used where required
- ✓ EMI, harmonic level of voltage, noise level should also be considered

Library Building



BASIC REQUIREMENTS FOR TECHNOLOGY LIBRARY BUILDING (22500 sq/ft)

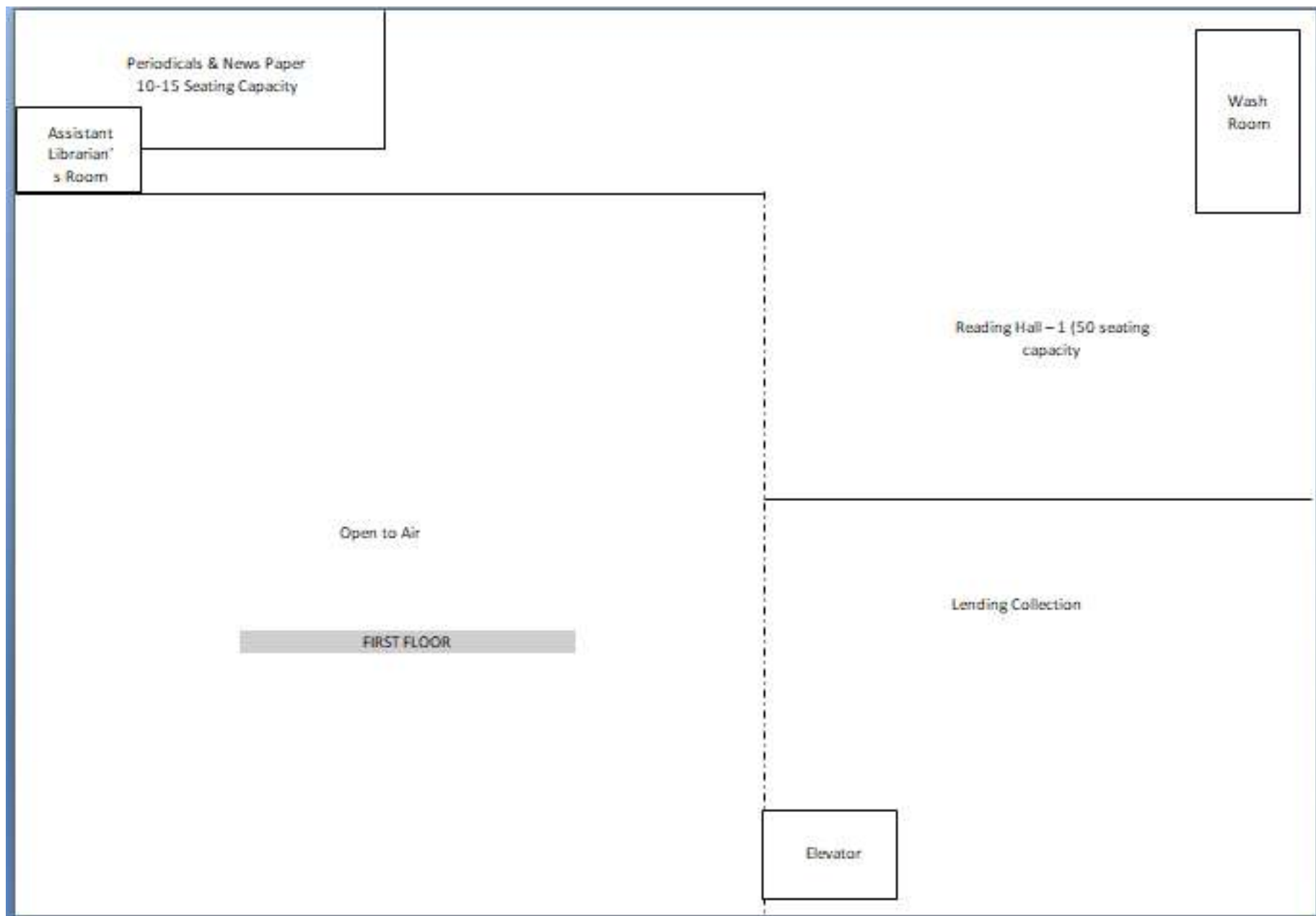
Basic Standards:

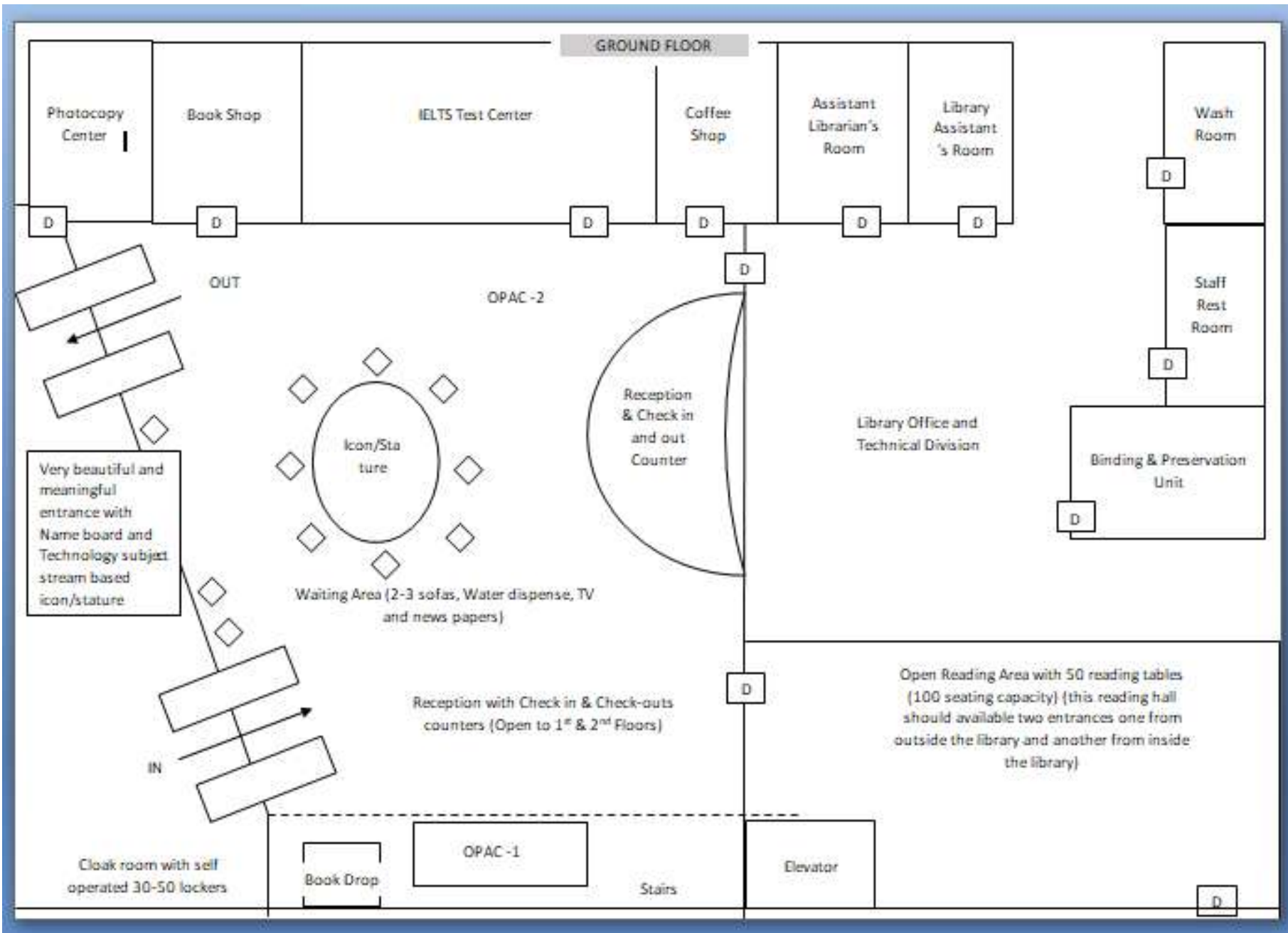
- i. Library Building should have a single entrance and exit to ensure the security of books.**
- ii. It should be located at the clam and quite place**
- iii. Readers could be access the library easily.**
- iv. Most of developed countries follow the OPEN SPACE concept when place their library sections.**

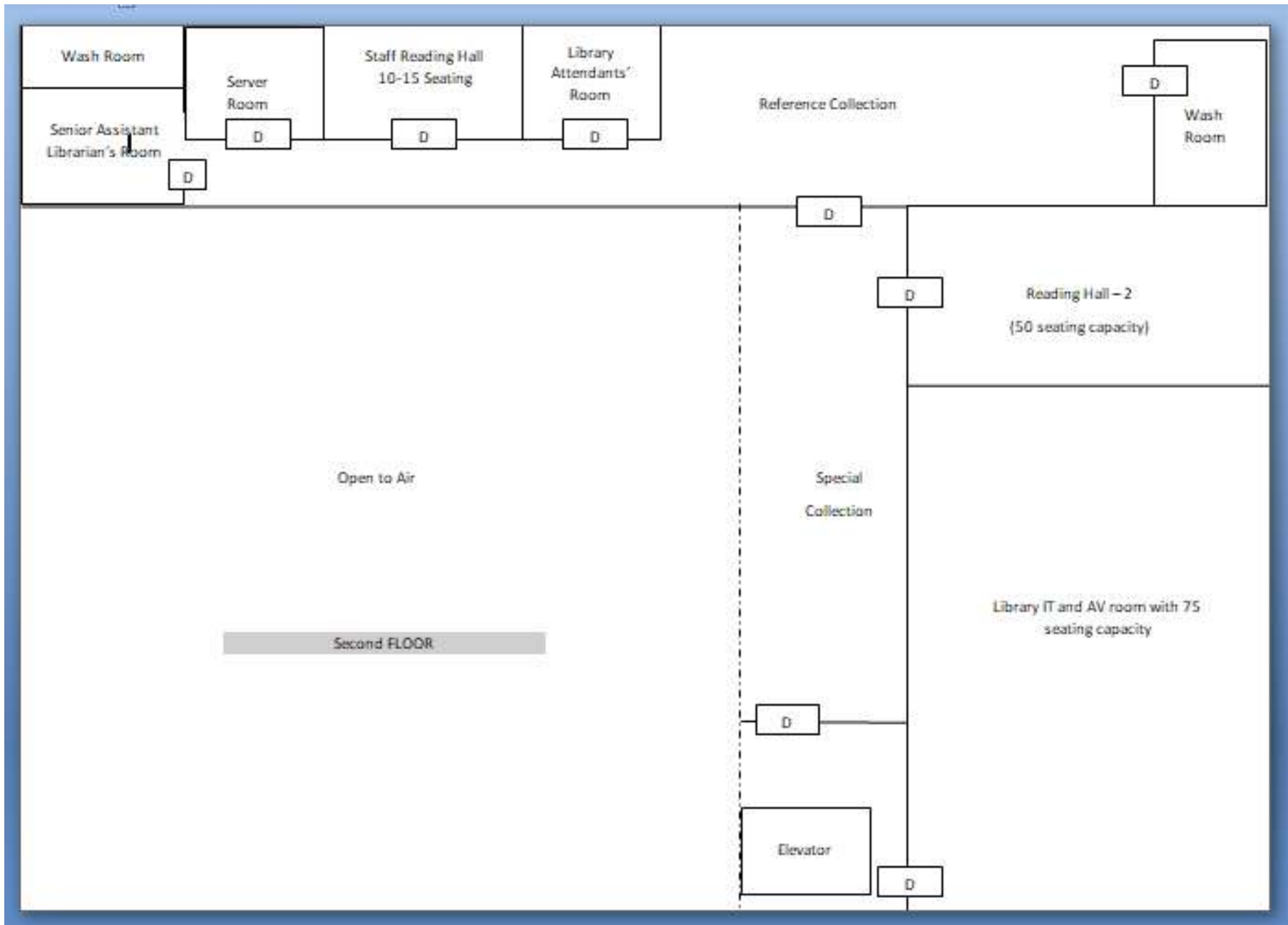
Basic Requirements:

- 1. Car Park**
- 2. Generator room (Sound Proof)**
- 3. Very beautiful and meaningful entrance with Name board and Technology subject stream based icon/stature**
- 4. Cloak room with self operated 30-50 lockers**
- 5. Reception with Check in & Check-outs counters (Double height space)**
- 6. Waiting Area (2-3 sofas, Water dispense, TV and news papers)**

7. **Service Centers – Out source Photocopy Service, Book and/or Stationary Shop (With outside door) , Coffee Shop / Cafeteria and self mobile recharge machine**
8. **Quick WiFi Zone with 20-30 lobby chairs attached to the Reception and waiting area**
9. **Self Check in Counter (Books drop) (This should be placed beside the main entrance and users can be drop their check-in books during the library closing times)**
10. **Open Reading Area with 50 reading tables (100 seating capacity) (this reading hall should available two entrances one from outside the library and another from inside the library)**
11. **3-4 Collections areas to keep the library Lending, Reference and special collection books with 10-20 shelves installing capacity & 10-15 reading tables installing (50 seating capacity) capacity for each collection at the parallel location.**
12. **Library IT and AV room with 75 seating capacity (This should be like a mini auditorium with few levels of floor)**
13. **Staff Reading Room with 3-4 tables installing (15 seating capacity) capacity**
14. **Journal section with 5-10 shelves installing capacity & 10-15 reading tables installing (50 seating capacity) capacity**
15. **Library book processing (Technical) unit with books storage, staff tables, book binding unit and staff wash rooms (this should be a bit large space)**
16. **Senior Assistant Librarian's Room with wash room**









Entrance



Counter



Interior