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The RIM Center of St. Louis; An Integrated Technology Based Health Center

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The RIM Center of St. Louis
Senior Thesis and Capstone Project
Dani Sheley



The RIM Center of St. Louis

Riverfront Integrated Medical

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PROJECT CONCEPT

The integrated technology based health center was inspired by the ideals of Steve Jobs associated with Apple products. After reading an article in Healthcare Magazine, I observed that his design tactics aligned with the process of designing a building and its interiors. His seven pillars of design are:

SIMPLICITY

EMPATHY

CRAFT

FOCUS

FRIENDLINESS

EXCELLENCE

LOVE FOR THE SUBJECT

These seven pillars not only speak personally to me as an individual, the designer, but also to the growing healthcare industry.

The iPhone and Apple products have become popular in today's world of communication in not only people's social lives but also in business. Taking the success of the iPhone into consideration, it has become integral to a designer's work with the building interior environment. The main leading question for this project specifically, what would the iHospital look like?

PROCESS



CONNECTIVITY



THE STORY

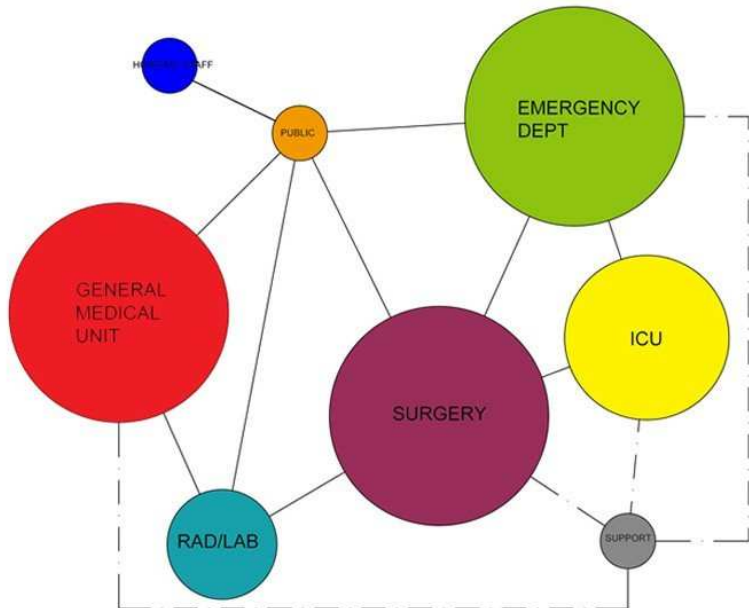
Originally thirteen buildings were selected for the program's choosing, then to eight, and down to two final buildings. After the selection, comparing the two building began in categories of site drivers, planning, building core and three dimensional blocking. For this program specifically, two dimensional space planning is crucial. From here, the final building selection was chosen.

The final building selection for the RIM Center is historical Crunden Martin Manufacturing Company. This building was not only chosen for its flexibility in planning, but also location. This area of St. Louis has little to no public traffic and tourism in the midst of large tourism attractions. This potentially high traffic area also did not have a health and emergency center for several miles acquired by data and research of the area. Crunden Martin's large square footages and layout allow for multiple tenants which may include retail shops, corporate offices, hospitality, as well as the Riverfront Integrated Medical Center. In hopes of bringing new life to this area of St. Louis, the RIM Center will make its home.

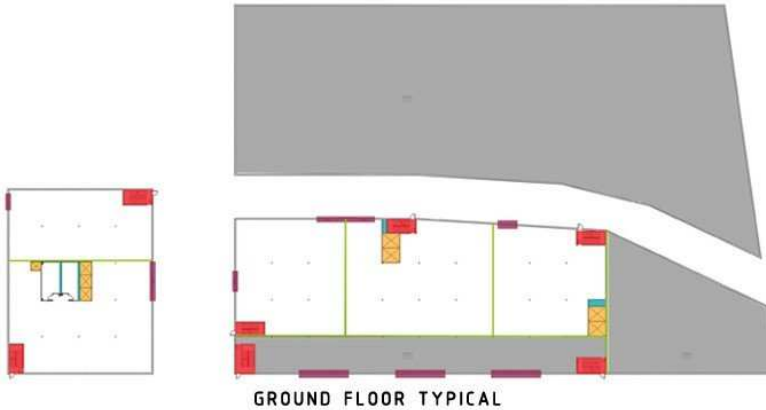
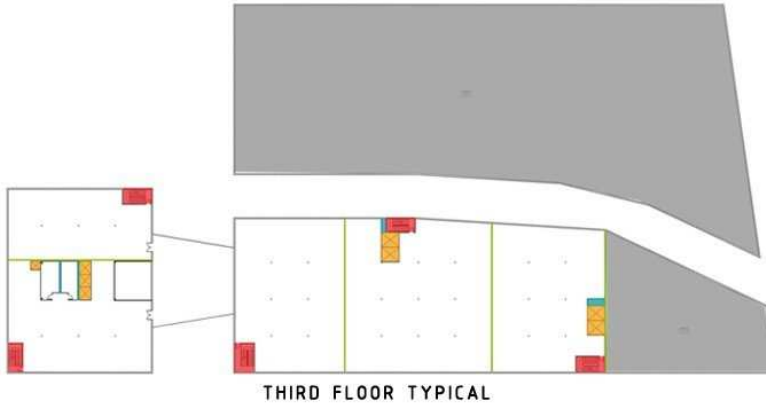
ZONE PERCENTAGES



BUBBLE DIAGRAM



BUILDING CORE DEVELOPMENT



BUILDING CORE LEGEND

- GREY - TENANT SPACE
- RED - EGRESS STAIR
- ORANGE - ELEVATOR SHAFT
- GREEN - FIRE WALL
- BLUE - VERTICAL CHASE
- PURPLE - EXITS TO EXTERIOR

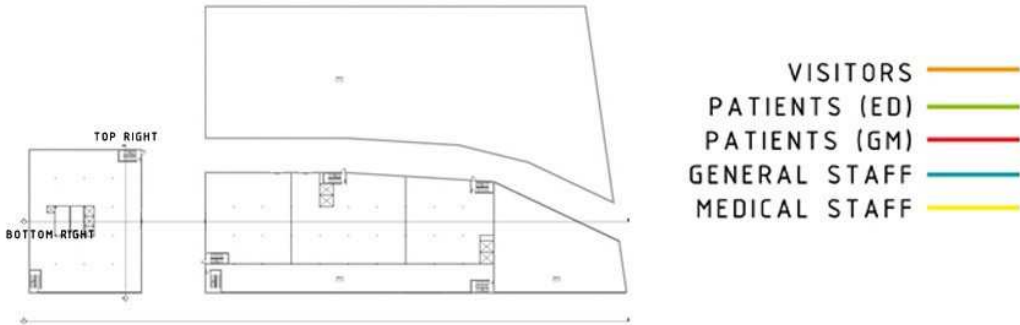
ZONES

- PUBLIC SPACES
- EMERGENCY DEPT.
- SURGERY DEPT.
- RADIOLOGY/LAB
- GENERAL MEDICAL UNIT
- INTENSIVE CARE UNIT
- HOSPITAL STAFF
- SUPPORT SPACES

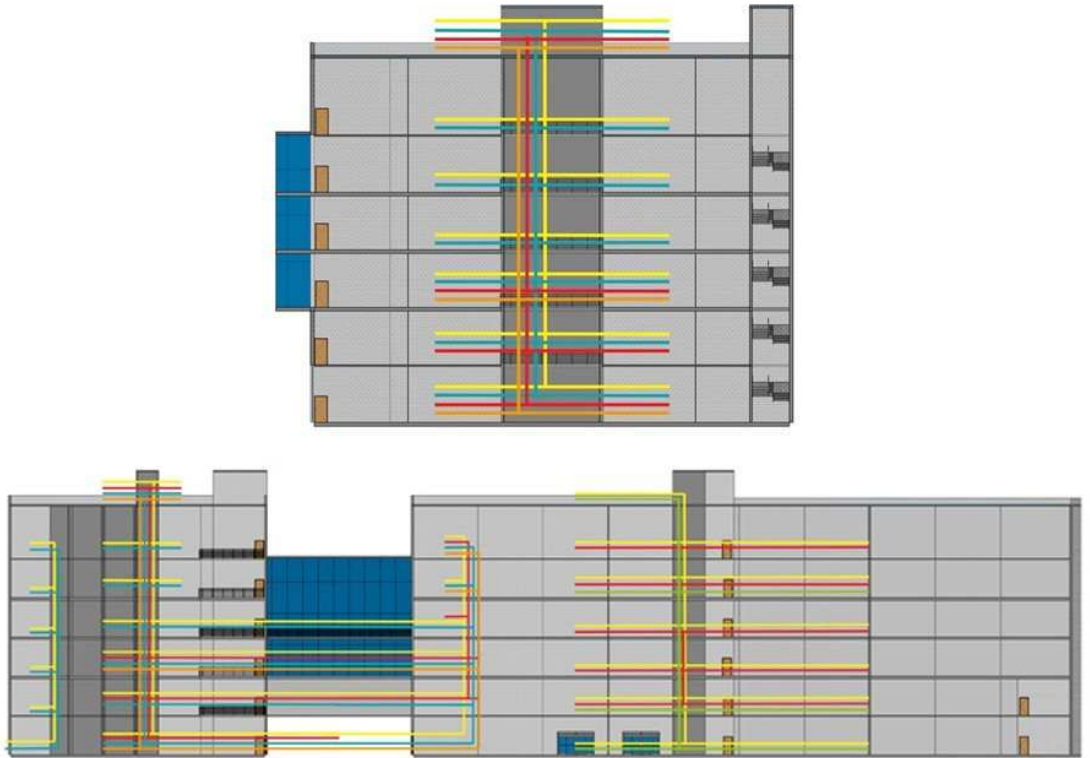
ISOMETRIC ZONE DIAGRAM



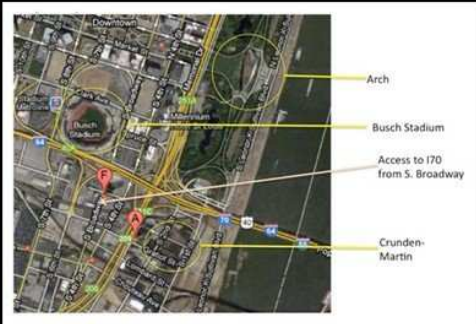
WAY-FINDING DIAGRAM LEGEND



WAY-FINDING DIAGRAMS



SITE CONDITIONS



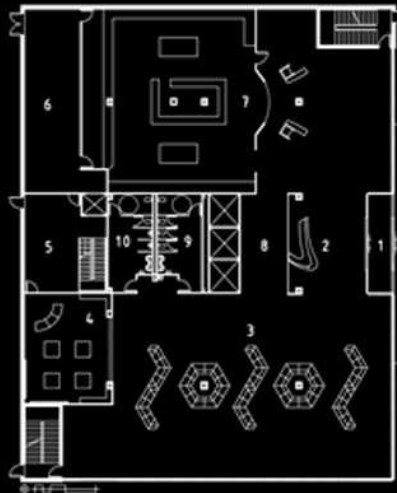
DESIGN CONCEPT

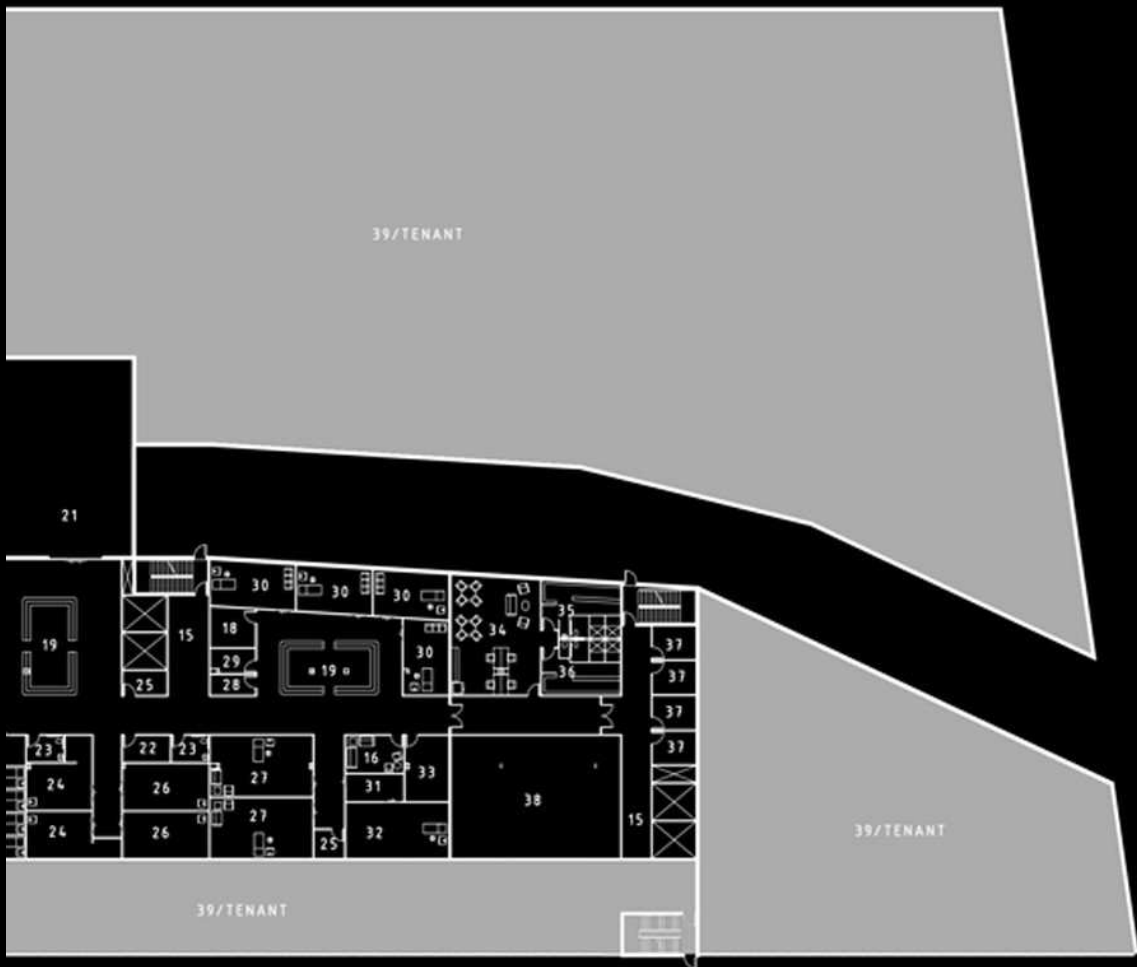
“MODERN DIFFUSION OF LIGHT”

The conceptual plan for historical building Crunden Martin Manufacturing Company, soon to be Riverfront Integrated Medical Center of St. Louis, is based off the central building core. By having the building core at its center the plan becomes more efficient with a building grid. RIM Center will have an open concept design allowing light to penetrate into the whole space both vertically and in plan. The RIM Center’s public building has an atrium space from ground floor to skylights surrounding the main entrance from the exterior as well as from the other building. The rectilinear plan alongside its openness allows for a modern aesthetic design. The plan also mimics the hospital’s branding; complexity is in its simplicity. The main conceptual direction for the RIM Center was high efficiency, natural lighting, as well as a plan and scheme that coincides with the branding of the medical center.

ROOM LEGEND

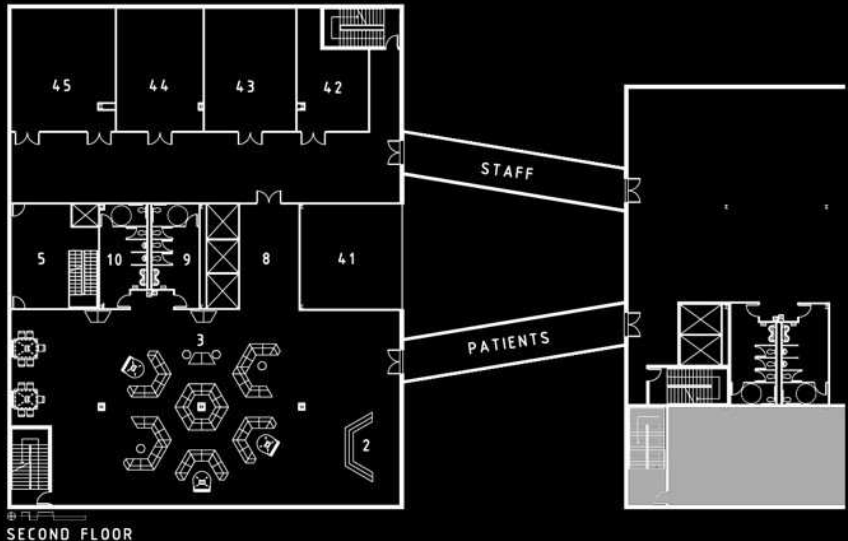
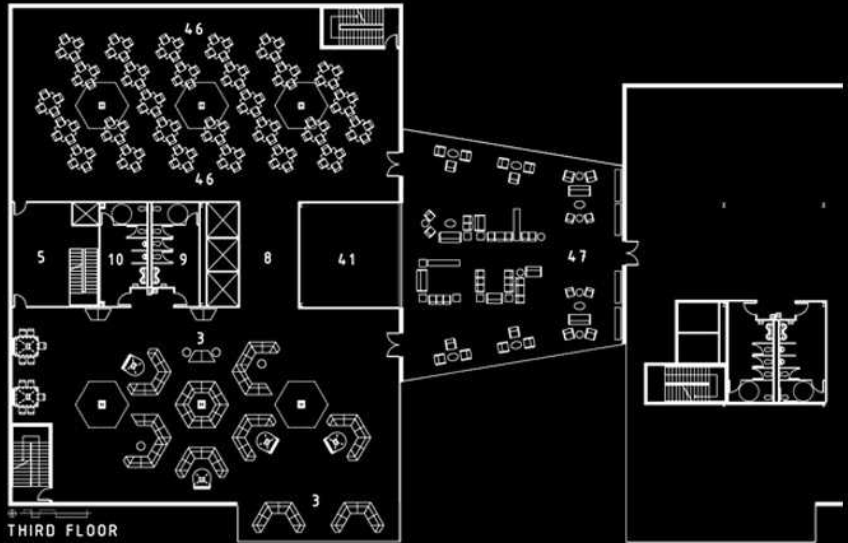
1. VESTIBULE
2. RECEPTION/INFORMATION DESK
3. SEATING AREA
4. GIFT SHOP
5. STAFF ONLY
6. KITCHEN
7. CAFETERIA
8. ELEVATOR LOBBY
9. WOMEN TOILET
10. MEN TOILET
11. SECURITY
12. FILE ROOM
13. EMERGENCY DEPT. CHECK IN
14. WAITING ROOM
15. PATIENT/STAFF ELEV. LOBBY
16. FAMILY CONSULTATION
17. TRIAGE
18. MEDICAL ROOM
19. NURSE STATION
20. GENERAL PATIENT ROOM
21. SALLY PORT
22. EMT ROOM
23. UNISEX TOILET
24. RESUSCITATION
25. STORAGE
26. ISOLATION
27. TRAUMA/CRITICAL CARE
28. CLEAN UTILITY
29. SOILED UTILITY
30. INTERMEDIATE PATIENT ROOM
31. ANTECHAMBER
32. NEGATIVE AIRFLOW
33. COMPUTER ROOM
34. STAFF LOUNGE
35. MEN LOCKER ROOM
36. WOMEN LOCKER ROOM
37. OFFICE
38. FUTURE EXPANSION
39. TENANT SPACE
40. STAFF PARKING/FUTURE EXP.
41. ATRIUM (OPEN BELOW)
42. STERILIZATION
43. HOUSEKEEPING
44. LAUNDRY
45. CENTRAL SUPPLY STORAGE
46. EATING AREA
47. SKY LOBBY





ROOM LEGEND

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Thank you for checking out my Senior Thesis and Capstone Project!

My name is Dani Sheley and I am proud to say I am a 2013 graduate of Southern Illinois University Carbondale. Go Salukis! I graduated Summa Cum Laude with a Bachelors of Science in Interior Design.

My passion for interior design leads toward the Healthcare and Medical Design Studies.

My ultimate goal is to become a licensed Interior Designer working in the Healthcare design field.

Thank you to my parents, Ashley, Jake and Allyson for all their love and support!

Thank you to the many professors and advisors who have believed in me!

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