Think SCIENCE Think MUSEUM Think, FARGO

-an interactive science museum for Fargo...to enhance our society for the scientific literacy needed in todays world

Ground Floor

- 1 THE PLAZA The first gathering point to the entrance of the science museum. This area would feature a sundial, outdoor seating for the restaurant, and walkways to the I-Max.
- 2 RECEPTION HALL This would be the first gathering location with in the museum. This area is large enough to have special gatherings for private and non-private events. The space can also be used for special exhibits or sculptures. The space is large and open with 40ft ceilings and natural daylight filling the room.
- 3- MAIN GALLERY This is the first gallery that guest would approach. The gallery would feature seasonal and temporary exhibits. This would keep the museum, and the guest up to date with new information.
- 4 RESTAURANT The theme of this restaurant would be "space" and would feature an exciting and well decorated grill and bar environment. The lowered sitting would have a view of the aquarium on the opposite side.
- 5 THE AQUARIUM This would feature rare and exotic species from around the world, and also feature an aquarium tank that guest can walk underneath.
- 6 MECHANICAL The main source of energy would be from geothermal source in the ground. The water source for the toilets would come from the rainwater collection off of the roof that would be stored for later use. Solar panels on the southern roof edge that adjust to the sun angles would also provide energy. The HVAC for the building would be a variable air system that would be separately controlled by each area of the building.
- 7 SHIPPING / RECEIVING Easily accessible from with in the museum and outside. The loading dock would be able to handle either large semi trailers to medium sized trucks to smaller vehicles. This area also has storage for exhibit materials and shipments.
- 8 AUDITORIUM A small auditorium that seats about 75 persons. It holds lectures and special events that require digital media. Located behind the auditorium, is a janitor's closet and security office.
- 9 THE EXHIBIT GALLERIES This is where all the interactive science exhibits are held. Ranging in, but not limited to Astronomy, Physics, History, Biology, Chemistry, and Geography.
- 10 FOOD COURT Guests are able get food and watch their children play in the recreational area. The type of food served would be quick and easy items such as sandwiches and other nutritional items
- 11 ENCLOSED RECREATIONAL AREA This area would have playground equipment and other physical activities where children are allowed to run and play. This area also has access to the I-Max Theater via a tunnel underground.
- 12 THE LIBRARY An area designated to picking up a book and relaxing, and continuing to educate the young minds.
- 13 GIFT SHOP A place to buy souvenirs, clothing and unique items.
- 14 THE COURTYARD To bring people outdoors and provide extra seating and a location for exhibits that may need to be demonstrated

Fargo's Interactive Science Museum:

Fargo's interactive science museum will be a place for children and adults to come and learn about science. The exhibits will feature many different forms of science, and the exhibits will be engaging and fun for people of all ages. As guests would enter the museum, they would first encounter the reception / information desk. Then they would either be able to go to the restaurant, aquarium, or to the interactive exhibit galleries. From there, the guest would be able to get food, and enjoy it either in the courtyard, or in the seating provided in the lounge area. Here, people would be able to monitor their children while relaxing. If the children would not care to play in the recreational area, they would be able to continue to learn in the library. After the excitement of all the learning and enjoyment from all the exhibits, guests would then pass the gift shop for souvenirs and other entertaining items. People then would be able to leave the museum the same way they entered the building with out having to pass any of the same things they have already encountered.

With today's advanced society, it is crucial that Fargo is not left behind. This interactive science museum will bring the Red River Valley and surrounding area to the 21st century and beyond. The museum will bring a status of excellence for Fargo, and prestiege well earned.

Floor Plans~ Scale 1/32' = 1'-0" **LOADING DOCKS** Second Floor 15 - CLASSROOMS - Four different classrooms are provide to help teach children about science 16 - OFFICES - Eight offices 17 - CONFERENCE ROOMS - One large room for very large meetings, and a smaller one for a quick breakout space. 18 - EMPLOYEE LOUNGE & MAILROOM / **UNDERGROUND TUNNEL**

> Sustainablity Issues underground. The theater Rain Water Collection - The entire roof collects rain water and funnels the water with eaves trough to a pipe the sends it to a storage tank located underground.

Solar Collectors - Mounted on the southern edge of the building, the solar collectors are motorized to adjust to the angle of the sun year around. the obtrusiveness of the theater would

> **Lighting** - Overhead light is brought in through skylights. Indirect light is brought in through the windows along the perimeter of the building. Geothermal Energy - The heat within the earth is about the same temperature year around. This can be used to

heat the building and cool the building. This system is also helps control the humidity. **Shading Devices** - The southern edge of the building has an overhang that blocks out the sun. All the windows

along the perimeter have shading ledges to block out the sun at higher altitudes. Rentention Pond - The pond would control any flood issues around the site, and storm water run off. The pond

would also work the wildlife to provide space for habitation. Operable Windows - Windows along the perimeter would be operable to allow natural ventilation. The vertical

windows along the front facade would also be operable. Panels that are suspended from the joist help absorb sound so

Sectional Perspective

the building does not echo from all the noise. They also have an aesthetic quality to them by creating a unique ceiling pattern

The reason for chosing this site falls on many reasons. The first and formost reason for this site is location. The site is located along one of the cities main pathway. Interstate 94 is located to the north of the site, however there is not an on / off ramp, the building would be highly visible to travelers passing through from any direction. The astonshing view of the building would draw in travlers with curiosity about the buildng. In that aspect, the travelers would be drawn through the city. The next reason for chosing this site relates to its location again. The Red River Zoo would be located adjacent to the Science

Museum. Also in this area the softball diamonds are located to the south and west. With all these other interactive activites in the proximity, the people that are already there can follow the trial to the musuem. Whether it would be between softball games or after the expedtion through the zoo, the science

museum would be there ready to show the

young and mature minds what

science all about

I Max Theater

seats about 400 people and has

I - Max capabilites. By placing the

majority of the theater underground,

be minimal, so not to take away from

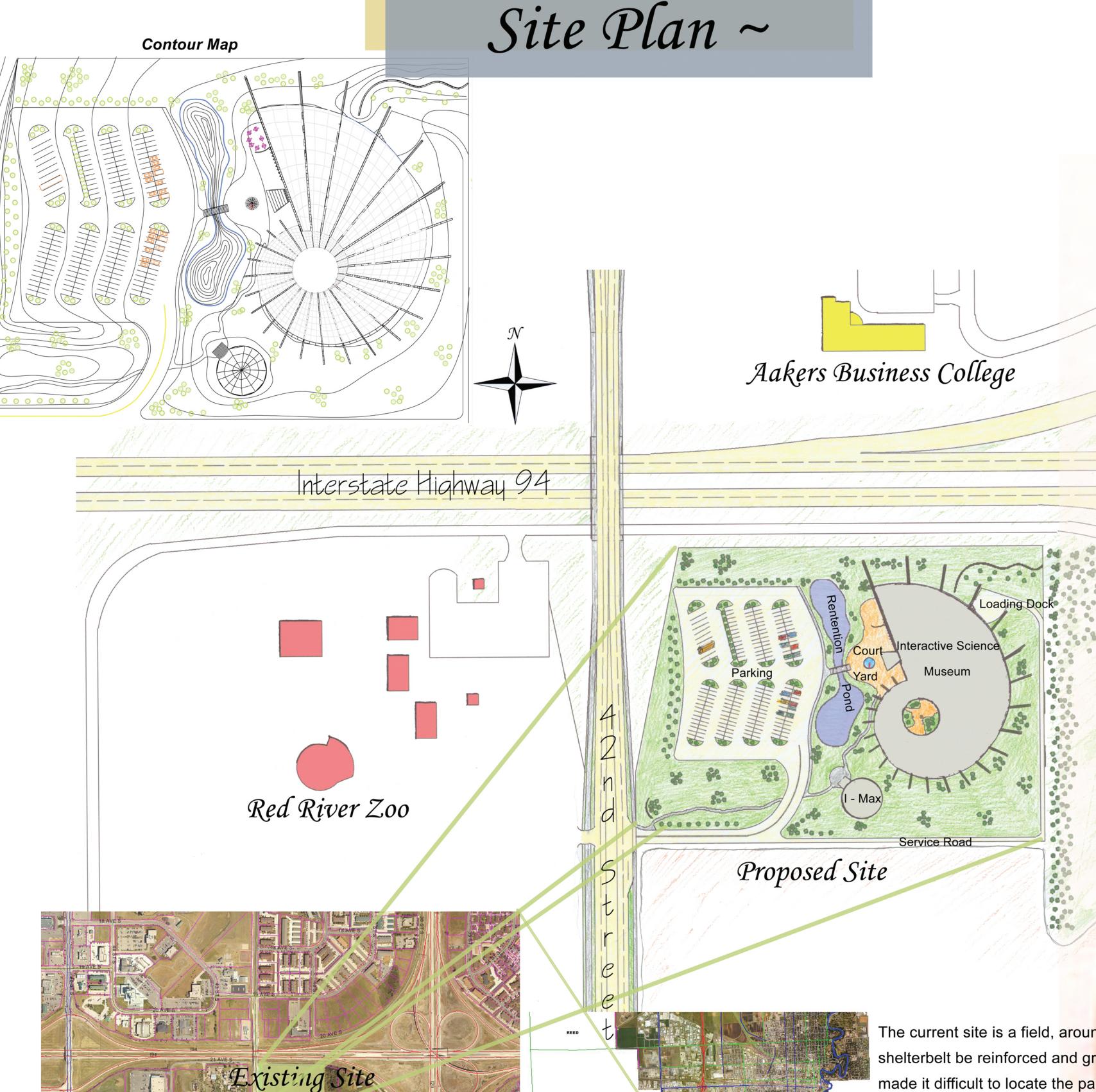
the pureness of the museum.

This theater is located

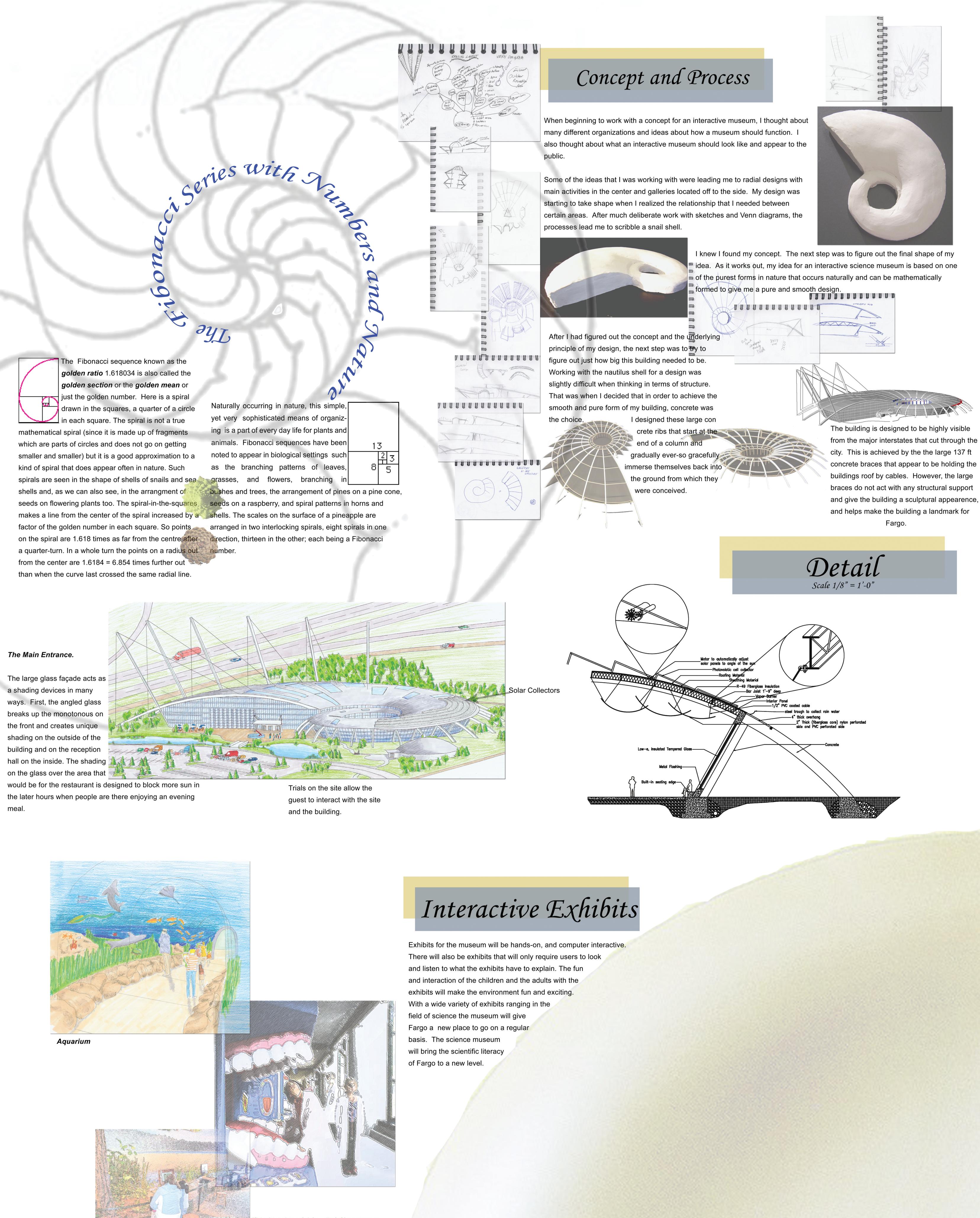
VIEW FROM I-29 OFF RAMP ON TO WEST BOUND I-94

Within the site I have developed a trail that leads from the city street, through the site, pass the I-Max Theater which eventually leads the guest to the entrance of the science museum. By creating this path it helps reinforce the use of the outdoor space and gets guest to interact with the museum.

The current site is a field, around the site is a field to the south, and located on the east side is a shelter belt. With my development of the land, I propose that the shelterbelt be reinforced and groomed to be brought up to a better quality. The building has been designed to be viewed from all angles. With that in mind, it made it difficult to locate the part of the building that people tend to think less of, that being the garbage, and shipping and receiving. Along the north side of the building, that is highly visible to interstate traffic, I located a slight retaining wall to block the view of the unsightly yet necessary functions of the building. This area for loading and unloading would be accessed with a service road that runs on the outer perimeter of the site, out of view for aesthetic reasons.



aerial view of Fargo



Food Court