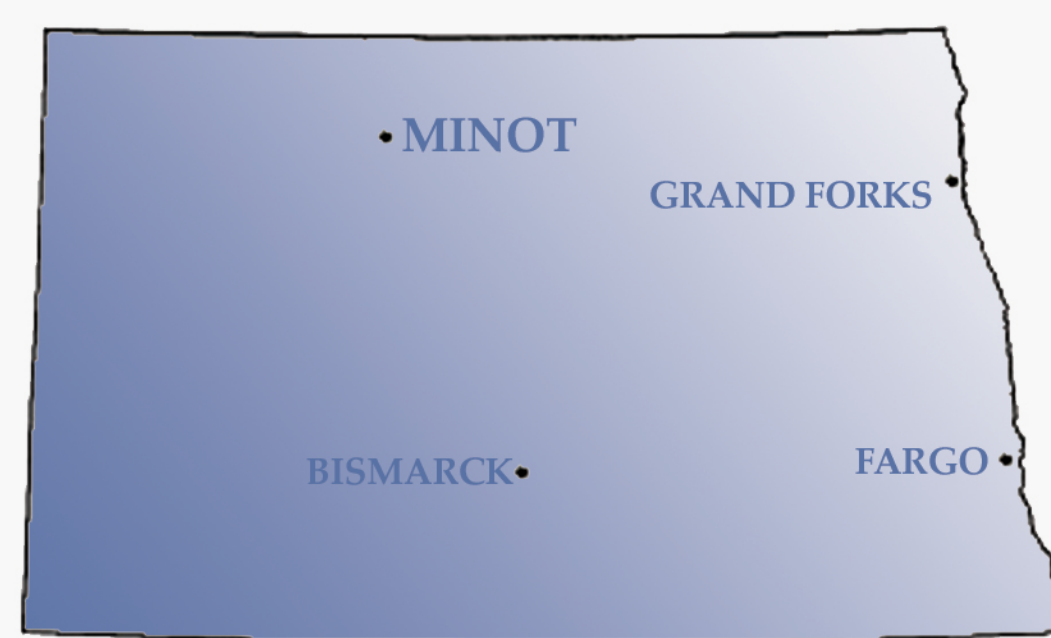
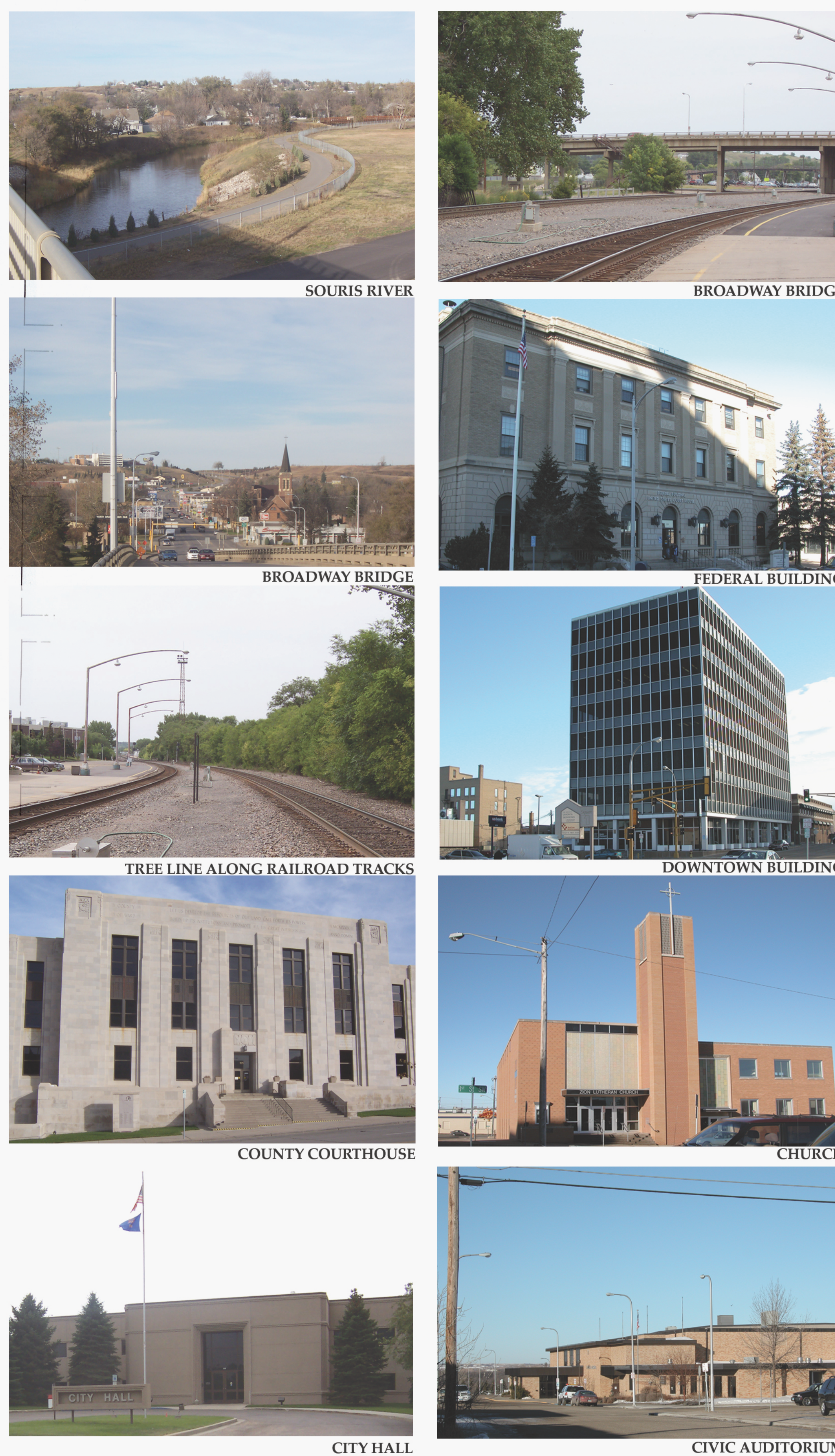


SITE ANALYSIS



The site is located on first avenue southwest in Minot, North Dakota. This location is near one of many loops the Souris River with tree-line banks, creating a park like atmosphere. The site location has the advantages of natural features such as the river and change in contours the valley provides, and has the added advantage of being placed in the downtown area. Since the train depot is approximately one block west of Broadway there are numerous businesses within walking distance of the station.



SITE LOCATION

PROJECT OVERVIEW

The subject of this project is the re-design of the Minot, North Dakota passenger train station combining it with an interpretation center creating a multi-use building. The key components of this design are to provide a smooth transition with the area surrounding the site, incorporate the influence of train travel and to stimulate an interest in mass transportation with the public. This train depot also provides an opportunity for the people of Minot to recapture the importance of the railway in the town's development and future.

USER DESCRIPTION

The primary building users will be individuals traveling on Amtrak. Their major concern is ease of check in, boarding and leaving the train car. The second major group are the visitors to the historical interpretative center. The main concern for those visitors is circulation that provides a guide. The third group of clients that the building must serve is the staff including: Amtrak ticket/check-in counter, baggage claim staff, security, museum attendants, cafe service, and custodians. All these individuals require specific design elements to create a functional and enjoyable working environment.

EMPHASIS AND GOALS

The project emphasis is a train station, historical interpretation center, and dining services.

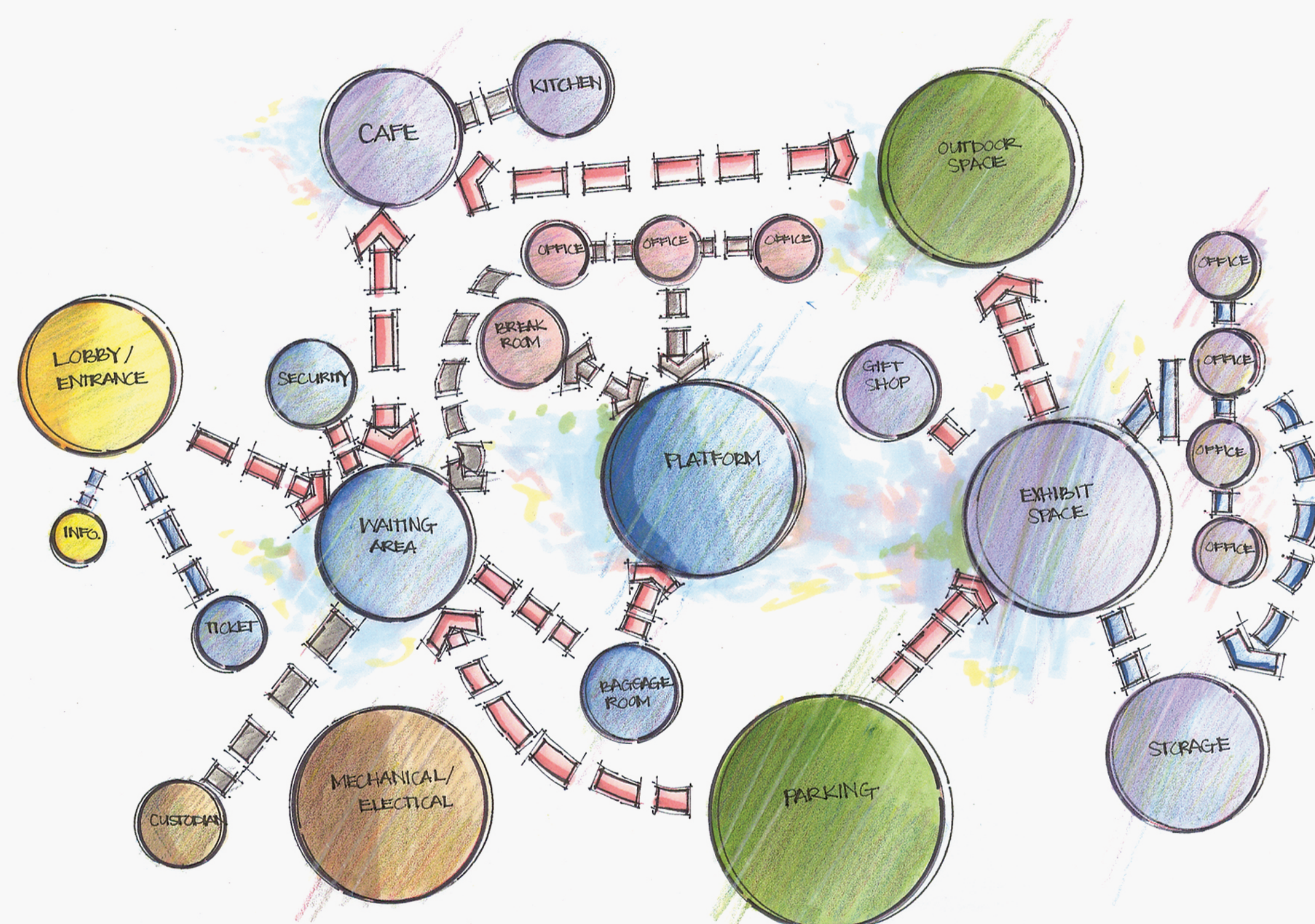
Providing a multiple use building to increase activity in the areas close to the site, specifically downtown Minot.

Another goal of this project is not to duplicate the surroundings, but to instill an experience, and atmosphere that draws people, in to feel the impact the train as mass transportation has on the area's past, present and future.

The train station must also convey its symbolism and importance to the workers and to those who the workers provide the service for. The train station will serve as a living history people can participate in; the railway was instrumental in the growth, life and stability for many towns across the country.

PROGRAMMATIC REQUIREMENTS

- Lobby/entrance
- Mechanical
- Cafe
- Gift Shop
- Information Desk
- Outdoor Gathering Space
- Ticket/check-in Counter
- Baggage Room
- Offices
- Security
- Break room/Lockers
- Waiting Area
- Platform
- Exhibit Space/galleries
- Storage



SPATIAL RELATIONSHIP DIAGRAM

PROJECT DESCRIPTION



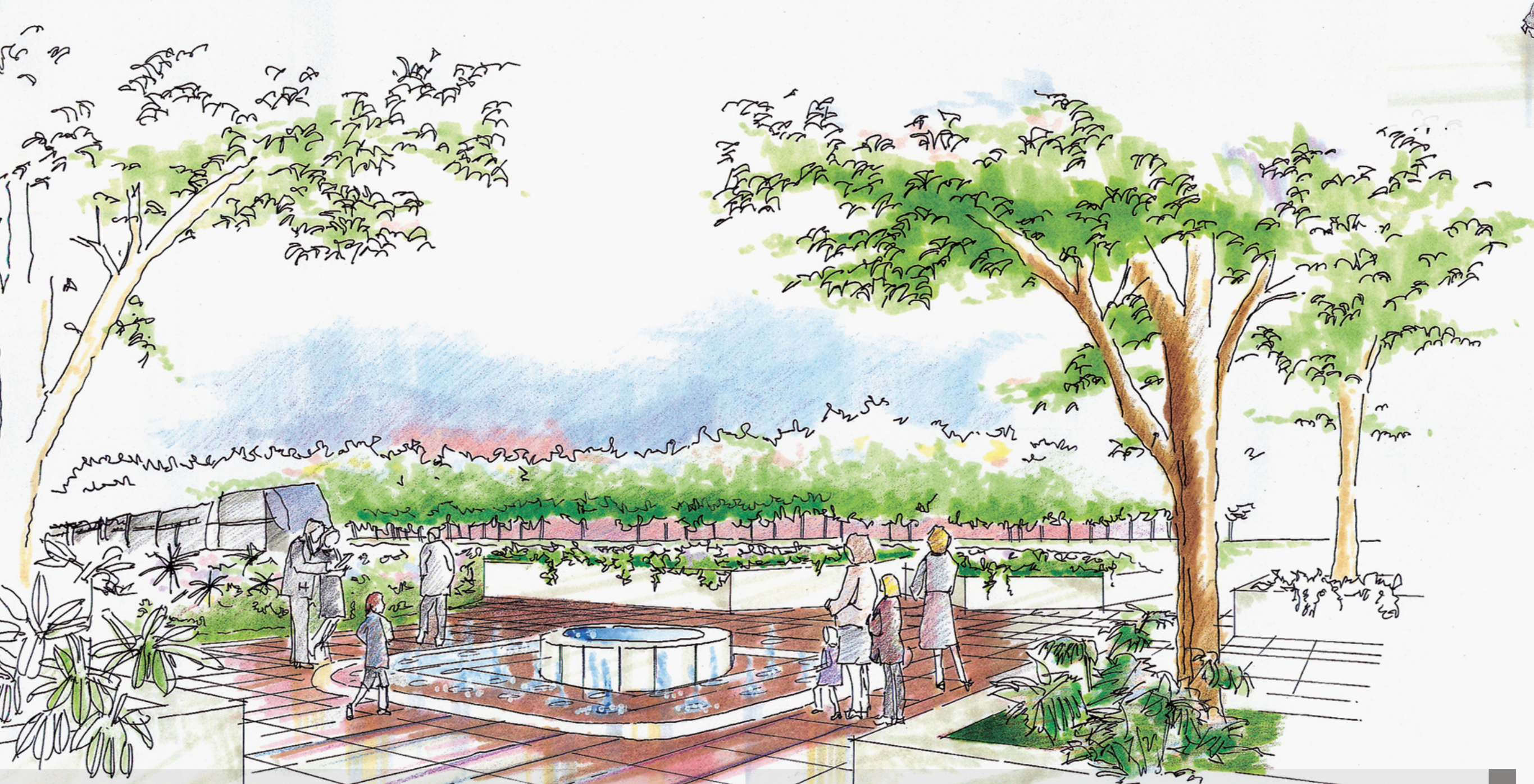
FENCE NORTH OF RAILROAD TRACKS



EXTERIOR VIEW OF MAIN ENTRANCE

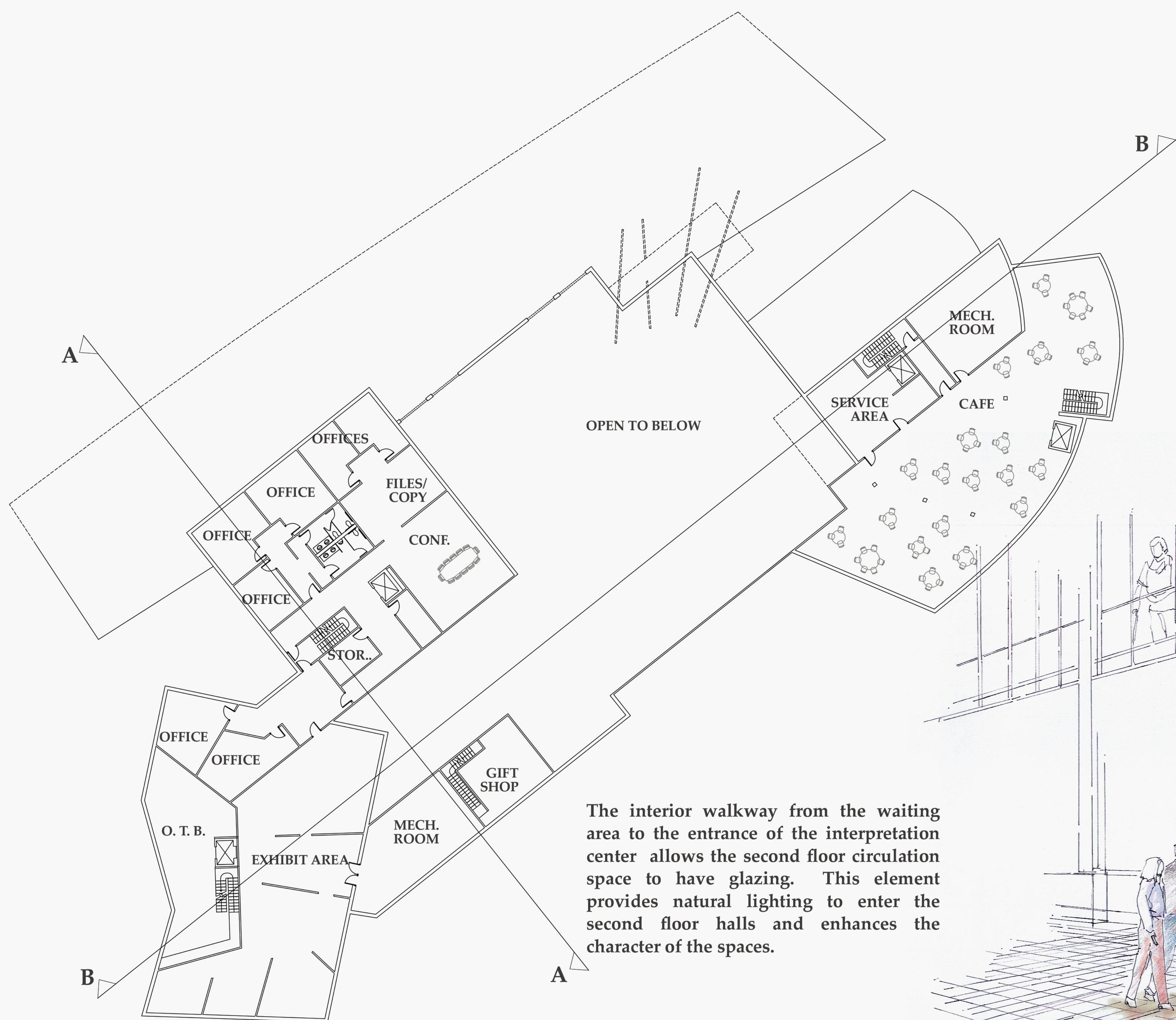
The entrance is curved with the road to creating a pick-up and drop-off area also to provide a sense of direction for individuals arriving to the site.

Because the entrance faces South, the glazing has overhangs to minimize the amount of direct sun light touching down on the waiting area floor, reducing uncomfortable glare.



OUTDOOR GATHERING SPACE

TRAIN STATION AND



SECOND FLOOR PLAN
SCALE: 1"=1/16"



INTERIOR WALKWAY
FROM WAITING AREA TOWARDS EXHIBITS

The interior walkway from the waiting area to the entrance of the interpretation center allows the second floor circulation space to have glazing. This element provides natural lighting to enter the second floor halls and enhances the character of the spaces.

SECOND FLOOR PLAN AND WALKWAY



FIRST FLOOR PLAN
SCALE: 1"=1/16"

Visitor parking provides secure long-term parking for the extended stay visitors. The trees lining the path from the parking to the lobby entrance offers guidance.

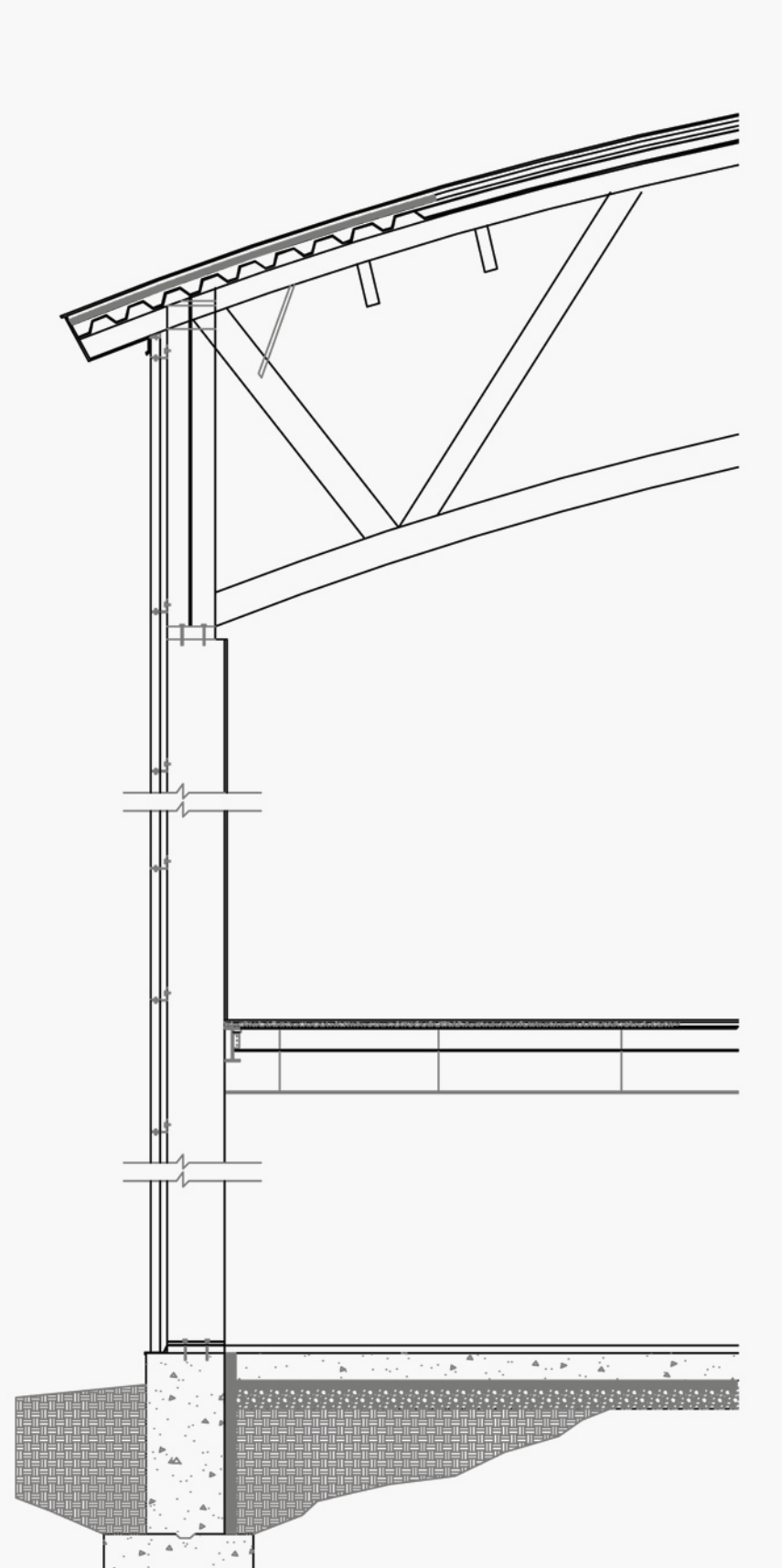
The curved roof plan symbolizes the train sheds featured in earlier train stations.

The west side of the building has employee parking, connected with a pathway to the private entrance. The landscaping for the outdoor space contains built-up earth to reduce the sound travel caused by trains passing through. This subdues presence of the trains for the visitors of the exhibits.



ROOF AND SITE PLAN
SCALE: 1"=1/32"

FIRST FLOOR AND SITE PLAN

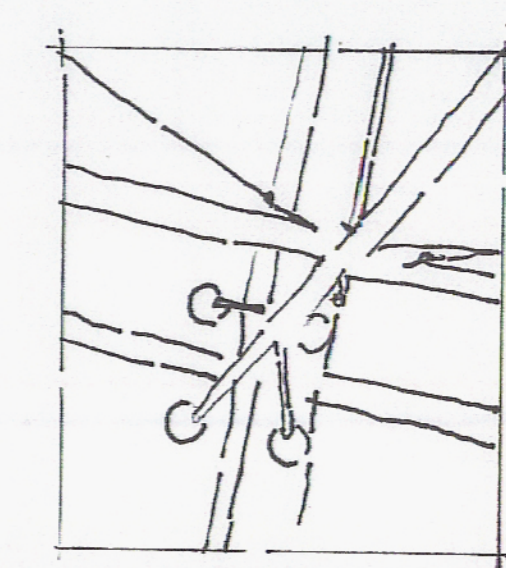


WALL SECTION

- ROOF SYSTEM**
sheet metal
flashing
insulation
steel decking
bar joist
long span truss
steel bearing plate
steel column support
- WALL**
stone veneer
tied back to steel column
flashing
insulation
wall finishing

- SECOND FLOOR**
metal wall studs are screwed and welded to steel angle at slab edge
steel decking
angle welded to beam
suspended acoustical ceiling

- FOOTING**
column welded to steel base plate
base plate set on leveling nuts
concrete footing
insulation along the inner side of footing



WINDOW DETAIL
WAITING AREA

Operable glazing is located in the waiting area facing the platform.



BUILDING SECTION B
SCALE 1"=3/32"

HISTORICAL INTERPRETATION CENTER
MINOT, NORTH DAKOTA

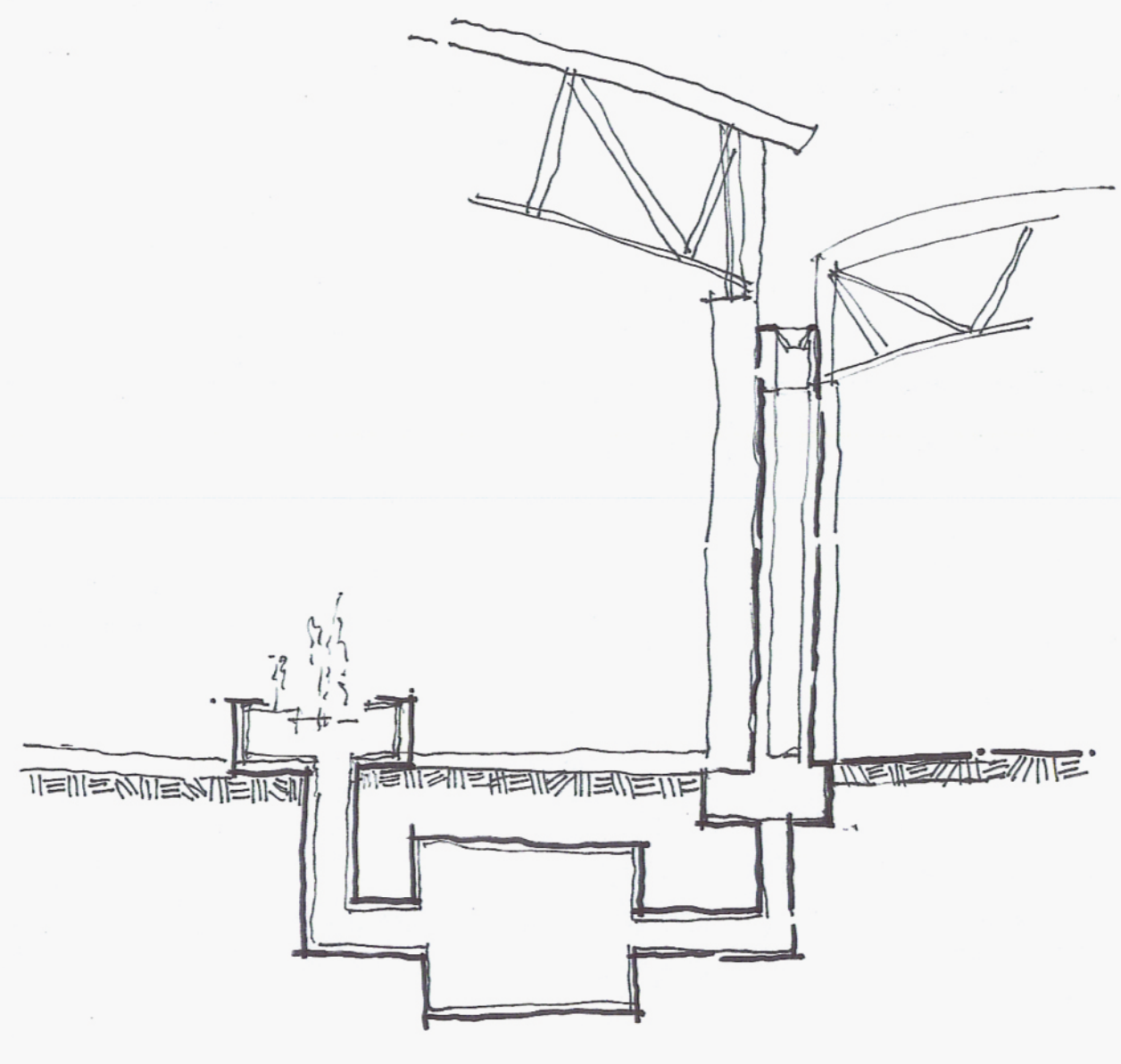


PLATFORM

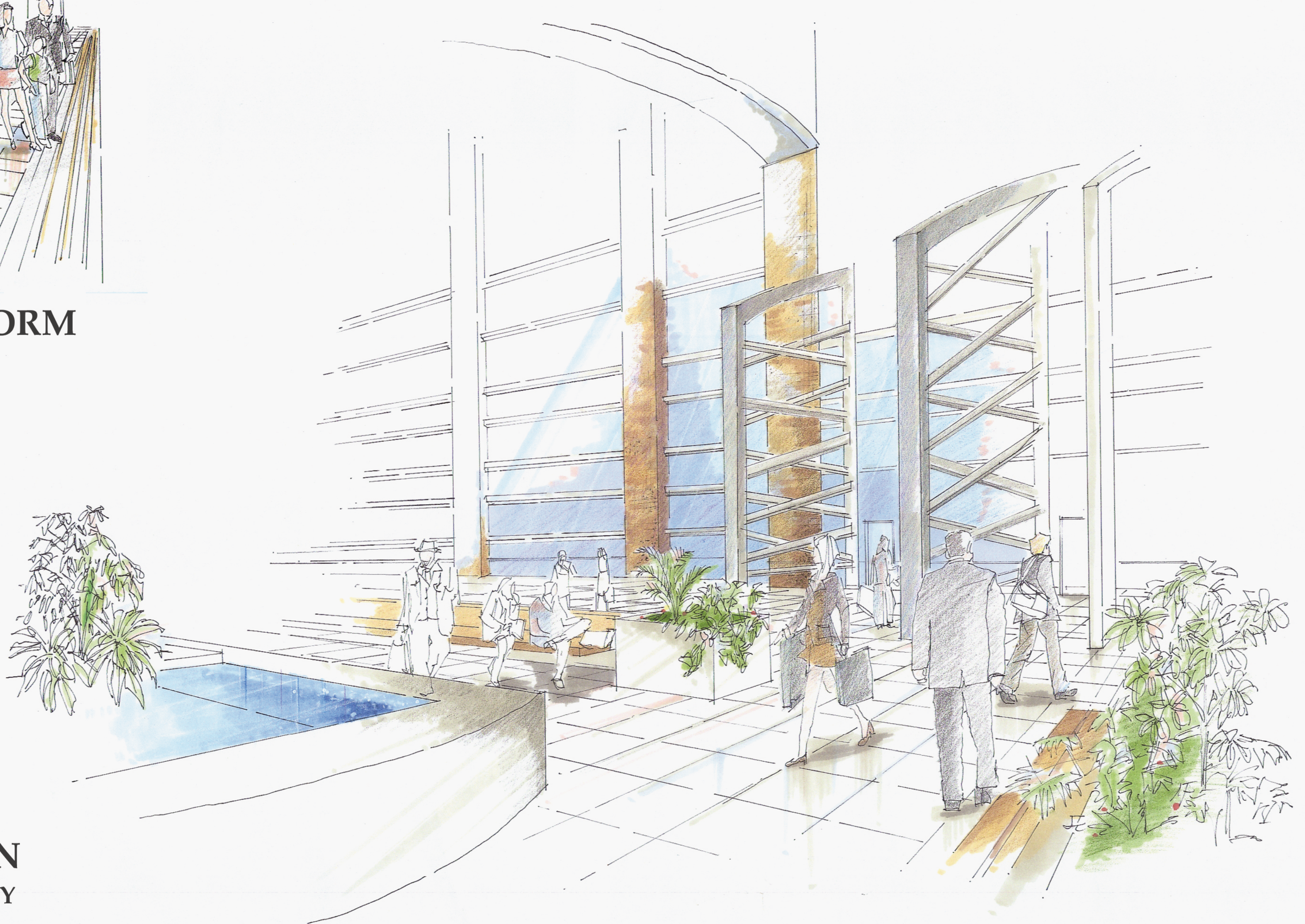
The platform has two materials. The change from stone pavers to ridged rubber creates a signal in where a person should wait safely until the train ready to board. The material change is not only a visual indication but a texture difference for the visually impaired.

Water collection between roof and canopy supplies the water features, the landscaping and the grey water used throughout the building.

The security process is the transition between the waiting area and platform made visible by open structure that intersects walls parallel to platform.



WATER DRAIN AND COLLECTION
ROOF AND PLATFORM CANOPY



WAITING AREA INTERIOR VIEW

TRAIN DEPOT



CAFE EXTERIOR VIEW

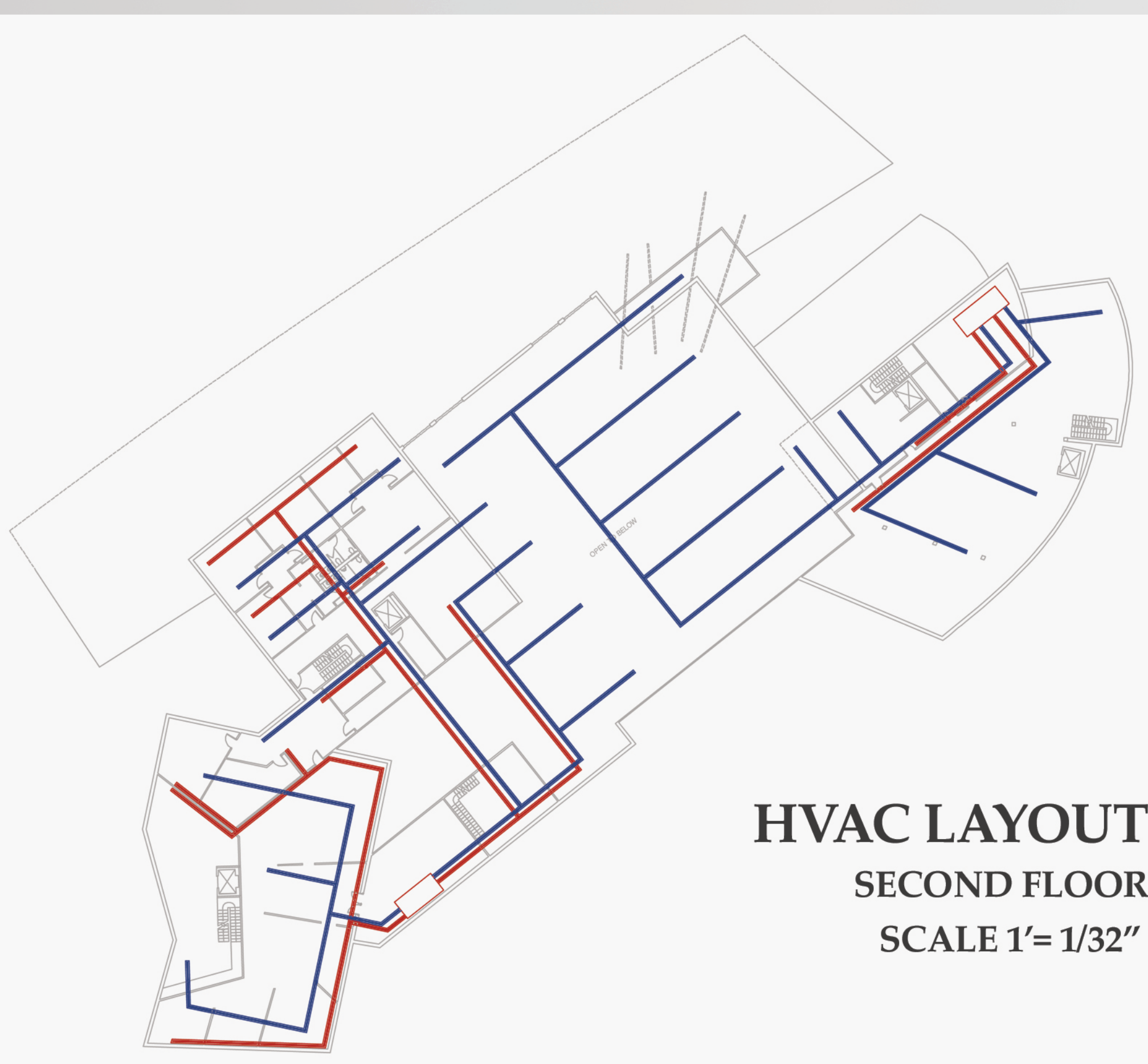
The orientation of the cafe is angled towards the downtown business district to correlate with business base for that building function. Also, having the cafe facing southeast creates the opportunity for outdoor dining in the summer months.

Exhibit spaces open up towards the view of the railroad tracks, creating a connection between the materials displayed and the outdoor environment. The open two storey area in the interpretation center accommodates for large elements.

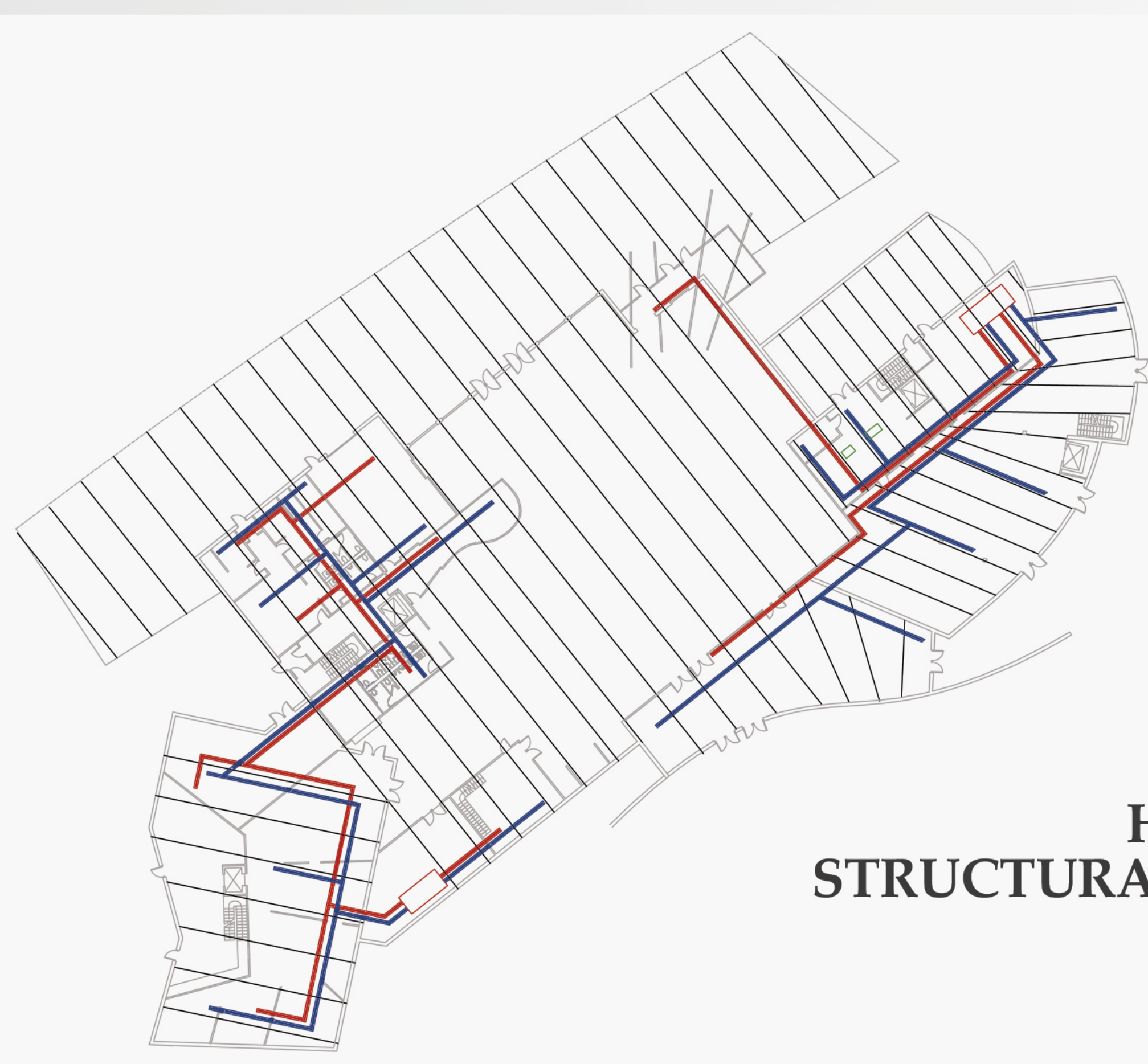


INTERPRETATION CENTER INTERIOR VIEW

CAFE AND INTERPRETATION CENTER



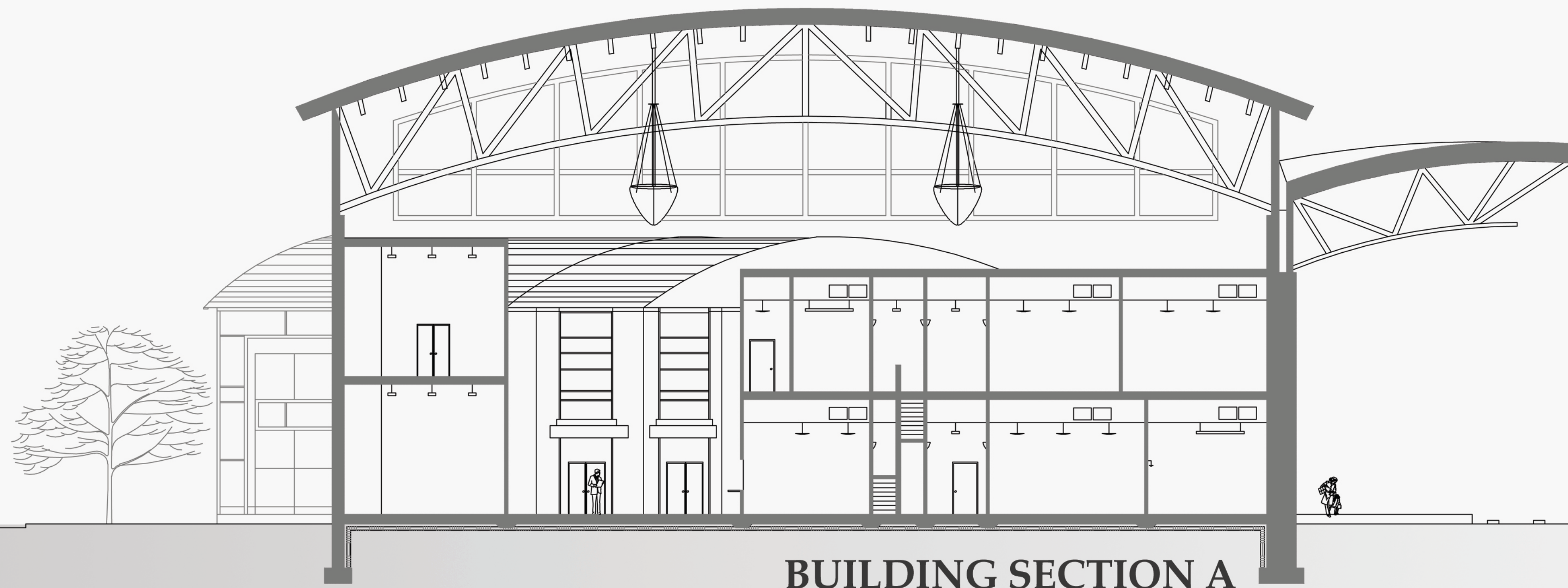
HVAC LAYOUT
SECOND FLOOR
SCALE 1"= 1/32"



HVAC AND STRUCTURAL LAYOUT
SCALE 1"= 1/32"

The HVAC system is set up for the supply air in the large open spaces to enter at the roof structure level and return near the floor level. The process allows natural environment to do more the work than mechanical.

Natural lighting is achieved by glazing the wall that ascends over the interpretation center entrance.



BUILDING SECTION A
SCALE 1"= 3/32"