OVERVIEW

Linking PEOPLE, PRODUCTS, and IDEAS throughout the Palouse in a time of rising energy costs led to the design of a new passenger rail station in the city of Pullman, Washington that will serve those wishing to commute to Moscow, ID or through the Palouse's rural communities to Spokane. The site location, set between WSU's campus and downtown Pullman serves the community and provides convenient and comfortable access to the station. The design of the station and its surroundings demonstrates an understanding of the needs of the community as well as a thorough knowledge of ecological and economical practices and improvements.

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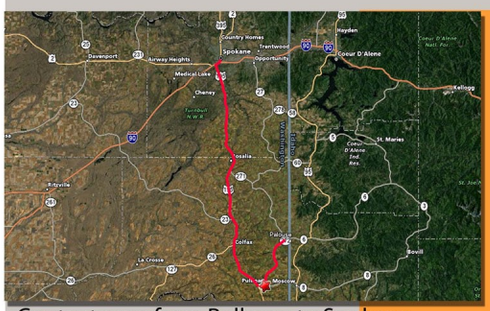
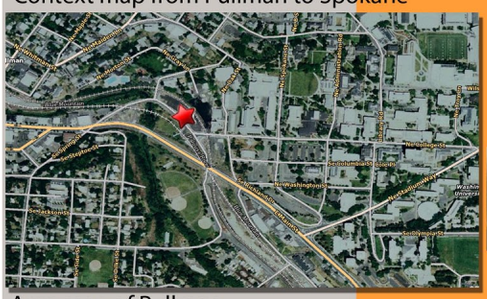
RAILROAD RENOVATION PROJECT

SOCIAL PROBLEMS

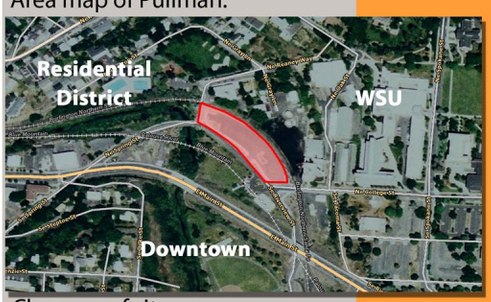
A major influence behind the station design is the emerging global trends of climate change, rising energy costs, aging, and the health of the public and local agriculture. Aspects of the sustainable design also address education, community interaction and economic stimulation.



Context map from Pullman to Spokane

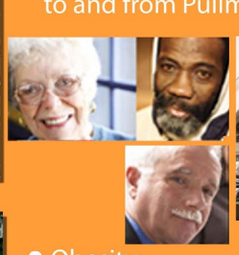


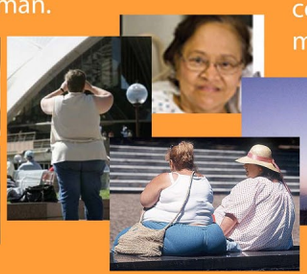
Area map of Pullman.



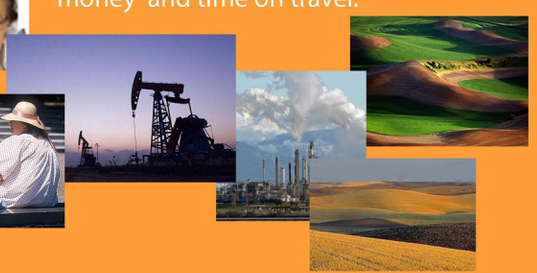
Close-up of site.

- The Aging Population
  Population: Driving long distances, especially at night, is tiresome and troubling for many people. This is especially true for elderly citizens, many of whom would prefer not having to make the long trip, especially if they are making the trip alone or in inclement weather. The train station offers a safe, comfortable, well-lit waiting area where elderly citizens may wait for reliable transportation to and from Pullman.





- Peak Oil:
  The peak oil crisis has driven the cost of fossil fuels up dramatically over the years. Faced with the possibility of gasoline reaching $5-$6/gallon in the near future, train ridership is expected to increase a great deal. The station design accommodates a diverse rider group, from the everyday working commuter to young passengers travelling to Spokane for recreation. This station design offers a number of innovative ways to conserve fossil fuels, as well as saves money and time on travel.



- Obesity:
  The proposed design deals with the obesity trend in a number of ways. The station is located very close to both the WSU campus and downtown Pullman to encourage alternate forms of transportation. Since the station is within easy walking distance from major parts of the city and on the city's bike plan, many commuters will be able to walk, bicycle or roller-blade to the station.

- Local Agriculture/ Economy:
  With its historical roots in agriculture, the year-round farmers market next to the station benefits the local community and local economy while supporting for family farms and rural communities, offering healthy and fresh food, and minimizing energy consumption of transportation.It can increase the local farm income and keep the local economy alive.

SITE ANALYSIS

The train station is located in the existing parking lot just north of Ne Spring Street in Pullman, between NE Pearl Street and NE College Street. It adjoins streets that are included in Pullman's comprehensive bike plan, it is just south of the existing BNSF rail line (the line that will be used for the new rail) and it enjoys a close proximity to both the WSU Pullman campus and downtown. Additionally, the southwest side of the proposed station location is the central business district and government facilities area, while the north side of the site is the high-density residential and grand stadium commercial district.

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PROCESS

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PULLMAN

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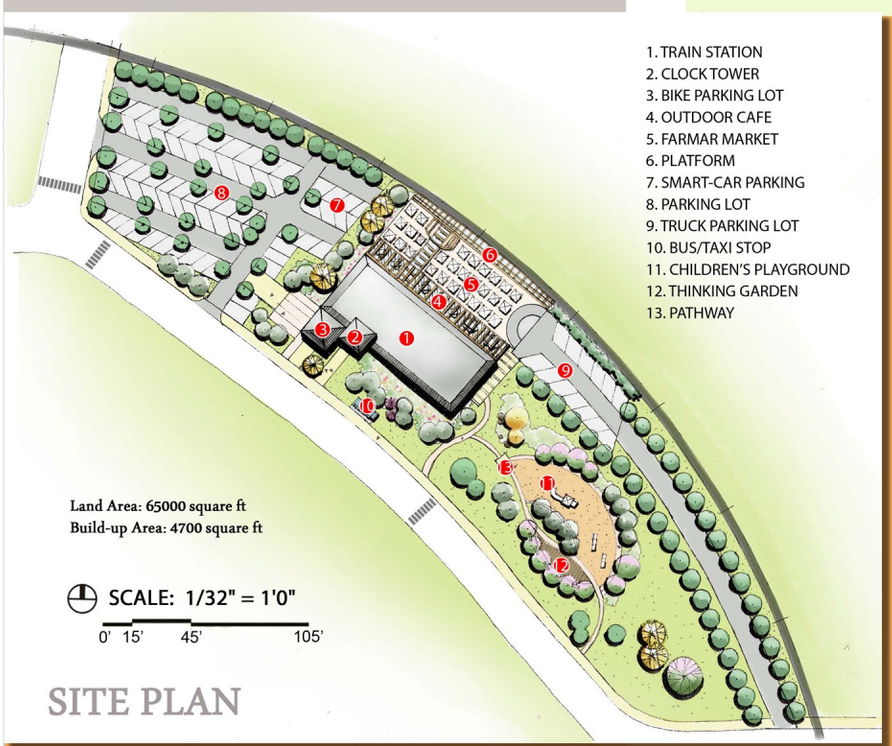
SITE PLANNING EXPLANATION

Design features that influence the site design and people connecting with people, include:

- Improved bike circulation
  Existing bicycle and walking trails are linked to the station to allow patrons to bike, walk, roller-blade, jog with strollers, and use other forms of transportation to reach the station.
- Small, nearby green land
  A park just northwest of the site provides an outdoor open, green space for people to wait in the sunshine for a train.

- Shuttle/bus area
  Passengers can chose between bus or shuttle service to local and regional destinations. Included in the shuttle/bus area is a map of the city, a map of bus routes/times, local taxi numbers, and so on in the station to make transitioning as easy as possible.
- Site Location
  The location provides a starting point for local events (fun runs, bike competitions, etc.) and a centralized gathering area that encourages community involvement and interaction.



1. TRAIN STATION
2. CLOCK TOWER
3. BIKE PARKING LOT
4. OUTDOOR CAFE
5. FARMAR MARKET
6. PLATFORM
7. SMART-CAR PARKING
8. PARKING LOT
9. TRUCK PARKING LOT
10. BUS/TAXI STOP
11. CHILDREN'S PLAYGROUND
12. THINKING GARDEN
13. PATHWAY

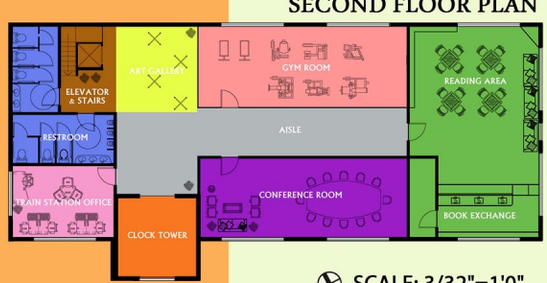
Land Area: 65000 square ft
Build-up Area: 4700 square ft

SCALE: 1/32" = 1'0"
0' 15' 45' 105'

SITE PLAN

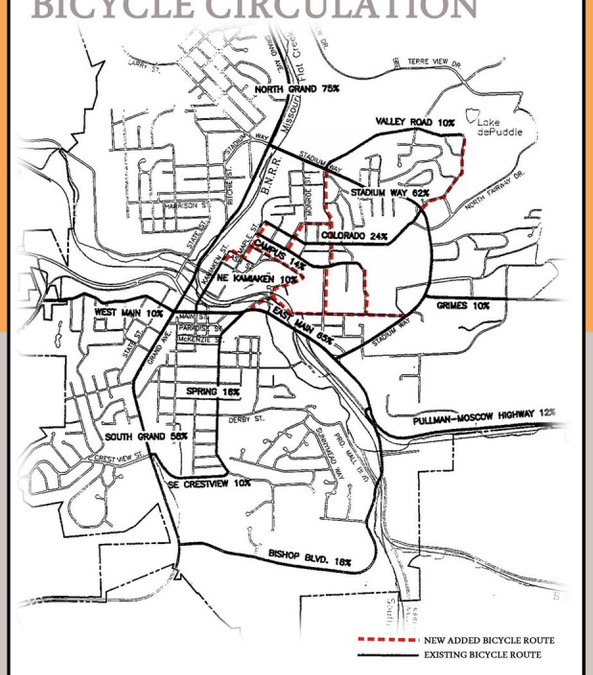
FIRST FLOOR PLAN

SECOND FLOOR PLAN



SCALE: 3/32"=1'0"
0' 5' 15' 35'

BICYCLE CIRCULATION



CONCEPTUAL PLAN

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TRAIN STATION DESIGN EXPLANATION

Numerous features are included in the station design that encourage alternative modes of transportation, community health and well-being, increased train ridership, passenger convenience, and so on. A partial list of considerations includes:

- Host an organic farmers market during the weekends.
Daily farmers market would provide an economic boost to the community. It would provide incentive for healthier eating habits and alternative modes of transportation to the market. The market could be an agricultural educational place. People could learn about local the crops, local farms and farmers, and network with people.

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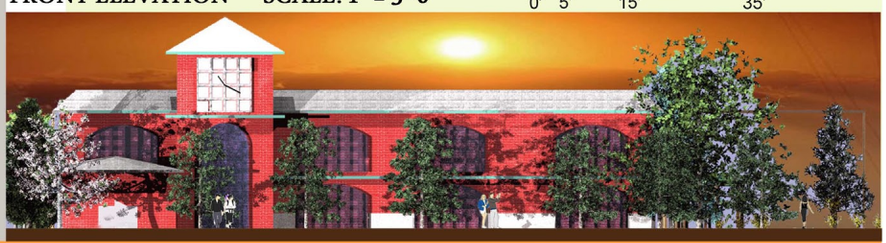
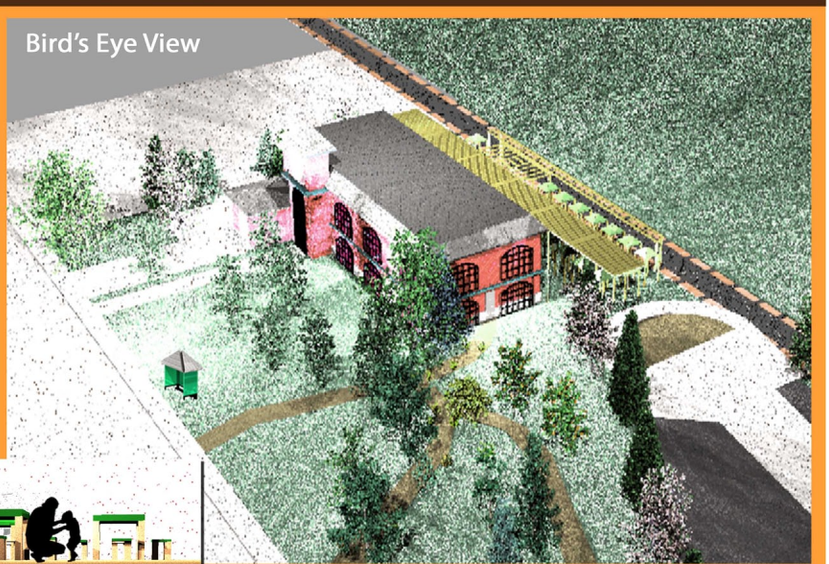
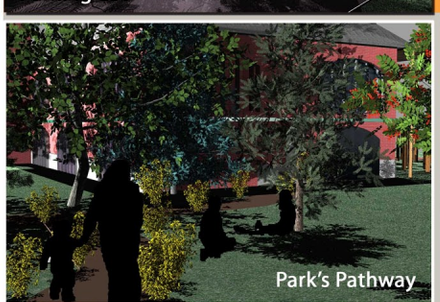
- Storage lockers for bike riders/ bike sharing program (rent bike at the campus).
Patrons can check their bicycles in a supervised area. Storage lockers allow passengers a place to change at the station. A bike sharing program would encourage ridership. People wishing to use a bicycle for a short time could rent one, use it for a few hours, a day or a week and then return it.

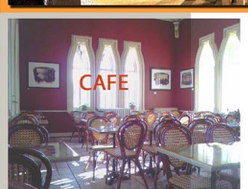
FRONT ELEVATION SCALE: 1" = 5'-0" 0' 5' 15' 35'



An all-encompassing shot of our station, the access road and parking lot, our passenger lot, the farmers market and platform, the path leading to the station from the bike path, and our bus stop/taxi dropoff.







Interior Design

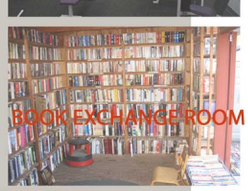
- Coffee shop.
A coffee shop, a book exchange, and a number of community boards allow local art displays, and other community elements to be shared with passengers waiting in the station's interior.

- Book exchange.
This would be a simple idea that mimics the book exchanges at local libraries. Private citizens bring in books, and may take some if they wish.

- Gym room.
Encouraging passengers to do more exercise while they are waiting for the train,

- Host local eco-education events.
A conference room in the station could serve as a forum for local educational lectures, small meetings, room for speakers, and so on.

Reference Pictures



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