

**Bike Share Program
“GreenBike”
Saint Xavier University- Chicago Campus**



Paul J. Matthews
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Sustainable Transportation

User Benefits

- Able to have quick access to a bike as an alternate means of transportation – 24/7
 - University and College Presidents Climate Commitment
- Non polluting and healthy transport
- Users will keep in physical shape
- U.S.G.B.C. LEED – NC Innovation Credit
- Student managed system out of Office of Sustainability in Facilities Management



Features



- No Chain
- Shaft Drive Transmission
- 3 Speeds
- Non removable, adjustable saddle height
- Rear carrier with advertising panels
- Combination lock provided
- Permanently attached security cable & storage
- Zero value resale from theft

The OYBike



3 Speed gears



Fixed bell



Non removable adjustable saddle



Hub brakes



Fixed combination lock



Stainless steel locking cord attached to the bike with a microchip at the end which inserts into the rental station



Unique Shaft drive instead of the chain



Dutch Perfect puncture proof tyres

All of the OYBikes are identical and include the following features:

- 3 speed grip shift gears
- Bells
- Non-removable adjustable seats
- Internal hub brakes
- Fixed combination lock
- Permanently attached security cable
- Shaft Drive Transmission – No Chain/Oil/Rust!
- Puncture proof tyres

Scroll up/down Button

Rental Station

On/Off

Smart Card Reader

Infrared port

With back plate attached to existing cycle stand

LCD Screen

Key Pad

Electronic locks

Battery or main Powered



<http://www.youtube.com/watch?v=6vtBQAnCxZo>

Rental Process- Option

- Mobile phone

- Call in to the central telephone number to hire a bike
- The system will establish
 - Who, where, and which bike
- The renter will then receive 2 codes that will release the bike and another one from when it is returned.
 - Establishing the billing process by Cougar card or board plan



- RFID Chip

- Identifies the “Swipe”
 - Checks the number with authorized users data “bank”
- Transaction time for release is 30 seconds
- Database records all the transaction details of the RFID number and transfers it to university billing account daily.
- Accounting office manages billable transactions

GreenBike locations (Include 60 bikes and 32 docking ports)

- September locations
 - The Pulaski Center
 - north and south of Warde Academic Center
 - Schmitt Residence Quad
 - McCarthy Hall (Rhubarbs C-store)
 - Outside Sports Center
 - Graham School of Management
 - Campus Service Center
 - University Relations (111th Street)
 - Driehaus Center (3919 W 103rd St.)
- Future Sites
 - Art and Design Campus
 - University Students Support Campus

Presented by: Lisa C. Clay, MA, Director of Planning

Academic and Administrative Facilities

- 01. Music facility – satellite campus
- 02. Faculty and staff offices – renovated Wards Hall Gymnasium
- 03. New Library – West 103rd Street site
- 04. New Art Gallery – West 103rd Street site
- 05. Byrne Library – renovated for study center and offices
- 06. New Science facility – north of Wards Hall
- 07. Visual Arts Facility – north of Regina Hall
- 08. School of Management – South Central Park Avenue
- 09. School of Education – north end of Heritage Walk
- 10. 21st century classrooms – Wards parking and vacated space

Housing and Student Life

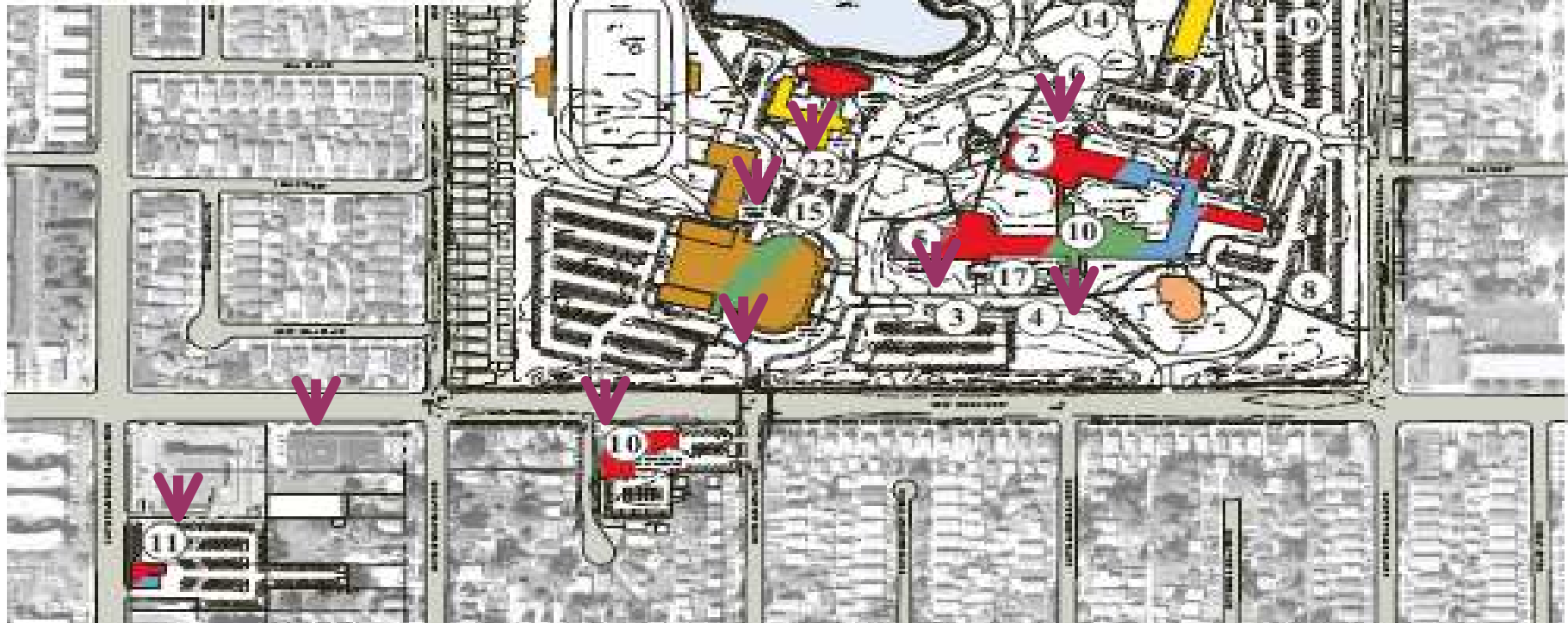
- 11. New Student Housing – Polak site
- 12. New baseball field – west campus, north of stadium
- 13. New Student Housing – former baseball field site
- 14. New Student Housing – Central Campus Quad
- 15. Campus center – North of Student Center

Site Improvements

- 16. Lake Marion reconfiguration
- 17. Greenway south of Wards
- 18. Parking deck – north of McCarthy Hall
- 19. Parking deck – South Central Park Avenue
- 20. Parking – new locating site
- 21. Sculpture garden – adjacent Visual Arts Facility
- 22. Memorial Garden – adjacent campus center
- 23. Heritage Walk – extended and enhanced
- 24. Pedestrian links to Heritage Walk

DECCA
27 November 2007

GreenBike location



Bike Rack



Bike Share Membership Concept

- Resident Students – part of discretionary spending in Board plan (RFID technology)
- Non-residence \$20 per year, declining balance down to \$3.00
- University Departments- \$100 a year with declining balance
- Rental Fees
 - 15 minute time periods, with first 15 minutes free
 - 60 cents every 15 minutes after first 15 minutes or 1st hour
\$1.80
 - Cougar Card or credit card is required for membership
 - » Deposit of \$20 per individual, or \$100 per department
 - » Declining balance

Operating and Staffing Costs

- Operations
- System purchase: $\$78,000 (65 \text{ units})/60 \text{ months} = \$1200 @/60 \text{ months} = \mathbf{\$18.46 @}$
- Monthly Veloway Fee: $\$3250/65 = \$54.16 @$
- Personnel Costs:
 - 2 Interns: $\$11.25\text{hr}(20)(2)(50) = \$22,500/12/65 = \mathbf{\$28.84 @}$
 - 1 mechanic = $\$14.25\text{hr}(20)(50) = \$14,250/12/65 = \mathbf{\$18.26 @}$
- Cost per month: $\mathbf{\$119.72 @}$
- Expense: $\$93,381.60$

Bike Use

- 4 hrs a day(1.80)(15 days)= \$108(60)= \$6480(12)= \$77,760
- Membership Fee: 77 departments(100)= \$7,700
- Resident student: 900(20)= \$18,000
- Total Membership fee: \$7,700+ \$18,000= \$25,700
- Revenue: \$103,460