RIVERBEND PARK







1/25/2016



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SHARING THE VISION

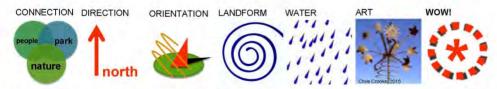


DESIGN INTENT RIVERBEND PARK



Strategic Framework Plan

The design intent for RIVERBEND PARK is to create a unique recreational park by utilizing the site's natural assets, promoting sustainability through the preservation of open space and the continued stewardship of land and river. Interactive art and amenities change depending upon when they are viewed, making the park different during each visit. RIVERBEND PARK is designed to provide an exceptional recreational experience for park users to, Explore, Engage, Educate and Enjoy nature as the park continues to Evolve.



EXERCISE | EXPLORE | ENGAGE | EXPERIENCE | EDUCATE | EVOLV







HILLS

- CREATE UNIQUE RECREATIONAL OPPORTUNITIES "Make a Mark"
- CONNECT PEOPLE TO THE PARK, PEOPLE TO NATURE
- STEWARDSHIP OF THE LAND & CLINTON RIVER
- IMPROVE THE HEALTH OF THE COMMUNITY

- DESIGN FOR ALL AGES & ABILITIES
- USE KINETIC ART TO INTERACT WITH VISITORS MAKING THEM PART OF THE ART.
- DESIGN PHASED AMENITIES
- PLACE-MAKING CREATE A PLACE FOR PEOPLE TO HAVE FUN



EXERCISE | EXPLORE | ENGAGE | EXPERIENCE | EDUCATE | EVOLVENJOY!



OUTREACH & DESIGN WORKSHOPS RIVERBEND PARK







MEETINGS AND WORKSHOPS:

- 6/26/15 RIVERBEND DONOR MEETING w/ Donor & Engineer
- 6/30/15 WORKSHOP MEETING City Steering Committee
- 7/07/15 WORKSHOP MEETING City Employees & **Public**
- 7/07/15 FOCUS GROUP EDUCATORS MEETING -Area

Educators

- 7/14/15 RIVERBEND SITE TOUR Steering Committee & City Employees
 - 7/21/15 PLANNING COMMISSION MEETING -Introduction
- 7/28/15 OPEN DESIGN WORKSHOP City Employees & Public
- 8/17/15 MEETING / CONCEPT PRESENTATION Mayor &
 - City Department Heads
- 9/04/15 PROJECT STATUS REVIEW Planning Director Introduction
- 9/15/15 CONCEPT PRESENTATION City and Steering Committee
- 10/05/15 MEETING / Water Feature Presentation With Donor
- 10/13/15 PRESENTATION Planning Commission & Steering Committee Meeting - Introduction & Votina
- 10/23/15 CONCEPT PRESENTATION LT. GOVERNOR

Park

- 11/18/15 GRANT APPLICATION MEETING For Sensory Garden & Natural Play Area
- 1/25/16 TOPRESENTATION City Comocil an

STRATEGIC FRAMEWORK PLAN Design Team+

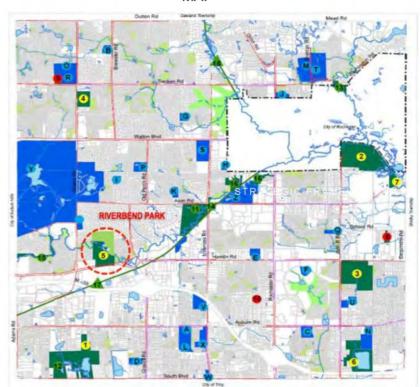


ANALYSIS



ROCHESTER HILLS PARK & RECREATION MAP









CLINTON RIVER TRAIL MAP







POINTS OF INTEREST

П

ROAD TO ROAD MILAGE



Riverbend Park is Located near the Clinton River Trail

RIVERBEND PARK

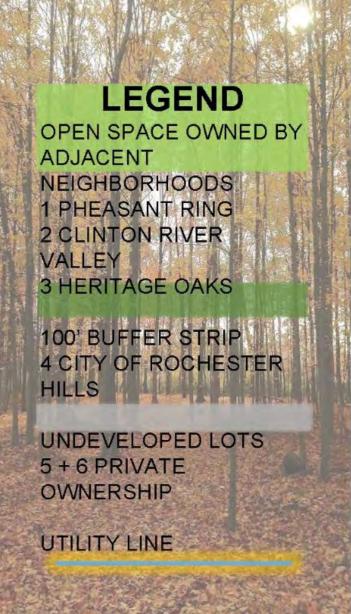
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PARK ADJACENCIES









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MARKING OF SEASONS & TIME SOLAR SOLSTICE | EQUINOX





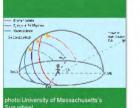
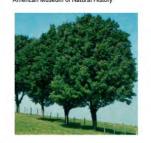
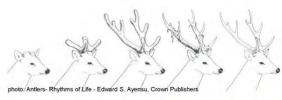


photo: Tree Seasons Bill Blizen



















HISTORIC PRECEDENT



Ancient builders illustrated human efforts to modify the land. These mounds were burial sites and places where people gathered. The mounds were aligned with the sun's movement. Artifacts left behind provide us a hint on how they lived.





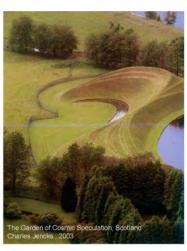
The mounds attract thousands of visitors per year.

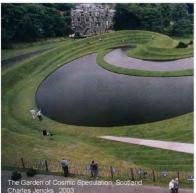
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CURRENT LANDFORMS









The Garden of Cosmic Speculation, Scotland Charles Jencks Landscape Architect

EARTH FORMS AND MOUNDS INSPIRED BY ANCIENT WORKS, MATH AND SCIENCE.

OPEN SPACE PARK COMPARISON



















































ANN ARBOR, MI



THE HIGHLINE NEW YORK, NY **OLYMPIC** SCULPTURE PARK, CHICAGO, IL SEATTLE, WA

MILLENNIUM PARK, RIVERBEND PARK,

24.5 ACRES

HILLS, MI

ROCHESTER

123 ACRES

843 ACRES

6.73 ACRES

9 ACRES

114 ACRES

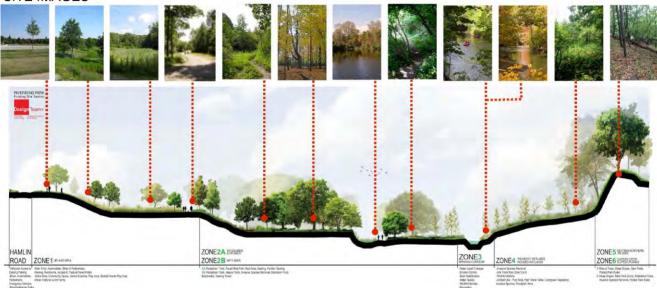




SITE ANALYSIS CROSS SECTION





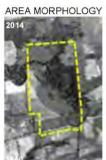


THE CROSS SECTION ILLUSTRATES THE TOPOGRAPHIC CHANGES THROUGH THE SITE. ZONES HIGHLIGHT THE VARIOUS VEGETATION TYPES AND HYDROLOGY, WHICH CREATES THE PARK'S NATURAL SYSTEMS.



ANALYSIS > CONCEPT









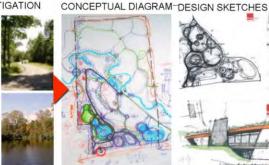
















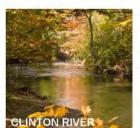
AN ANALYSIS WAS CONDUCTED OF THE NATURAL SYSTEMS AND MANMADE ELEMENTS WHICH ARE THE ASSETS OF THE PARK. NUMEROUS SITE VISITS WERE CONDUCTED DURING THE ENTIRE PROJECT TO EXPLORE AND DISCOVER THE PARK'S UNIQUE FEATURES.

CONCEPTS



WATER CONCEPT





CLINTON RIVER - WATER LEVEL IS CONTROLLED, CAN RISE FROM 6 INCHES TO 6 FEET. BANK STABILIZATION TO RETAIN VEGETATION AND SOIL ARE RECOMMENDED.

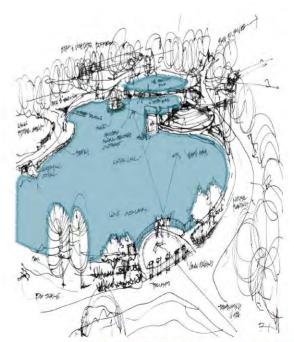


PONDS - CONSTRUCTED PONDS EXIST AND SUPPORT A WIDE VARITY OF WILDLIFE. PRESERVE THESE TO OBSERVE WILDLIFE.





DESIGN A NEW WATER FEATURE TO ATTRACT PEOPLE. BRING WATER, ART, VEGETATION AND PEOPLE TOGETHER. PROVIDE AMENITIES AND ACCESS.





WATER FEATURE





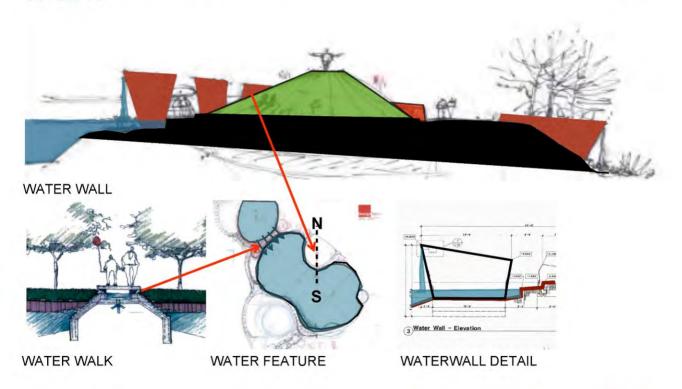
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WATER WALL & WATER WALK CONCEPTS

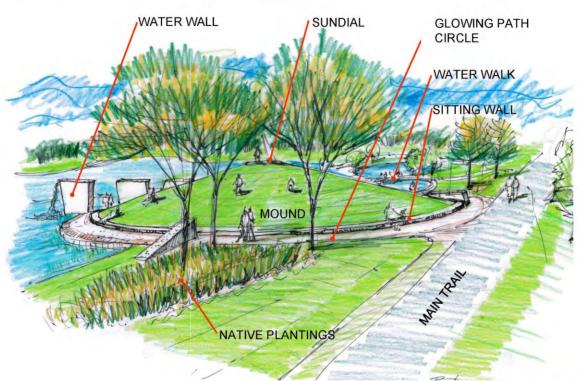






WATER WALL | MOUND | SUNDIAL CONCEPT







MOUND - MARKING TIME & SEASONS CONCEPT





SUNRISE at RIVERBEND PARK



EARLY CONCEPT OF MOUND AND WATER WALL



THE SUNDIAL TRACKS THE HOURS, THE SPRING AND WINTER SOLSTICE ARE MARKED ALONG THE SEAT WALL AND PAVEMENT TO INDICATE THE SUN'S POSITION AND ALIGNMENT.



SUNDIAL



SPRING SOLSTICE

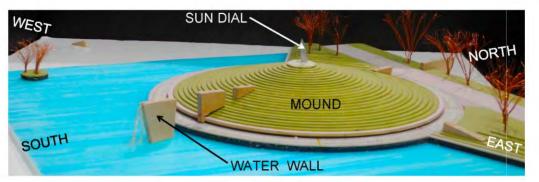


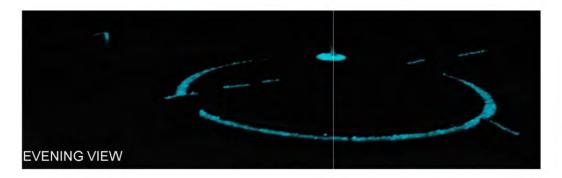
WINTER SOLSTICE



LAKE & PARK **FEATURE** CONCEPT

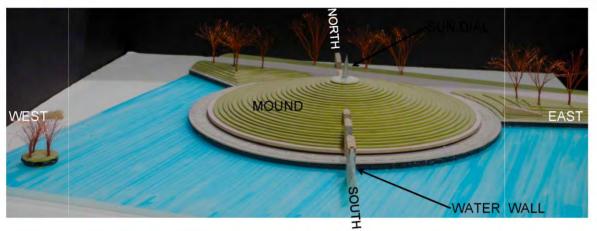


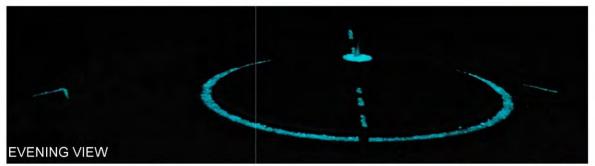




LAKE & PARK FEATURE CONCEPT







VIEW FROM PARKING LOT



SOLAR POWERED ILLUMINATED GLOWPATHTM PAVERS

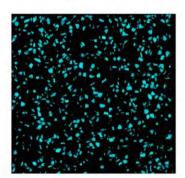


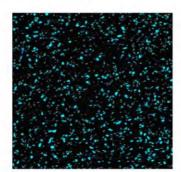


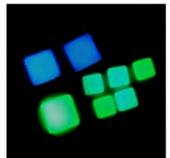




GLOWPATH™ PAVERS UTILIZE THE ENERGY OF THE SUN, LIGHTING UP AT NIGHT WITH A NATURAL GLOW.





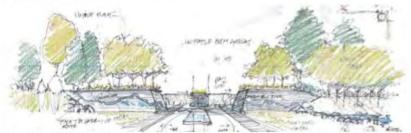




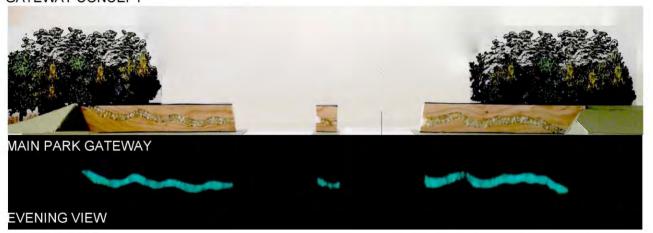
PARK GATEWAY ENTRY



CONCEPT



GATEWAY CONCEPT



UNIVERSAL PLAY AREA

CONCEPT





RIVERBEND PARK | 'UNIVERSAL PLAY' AREA CONCEPT

PLAY AREA AND SENSORY GARDEN DESIGNED FOR CHILDREN WITH SPECIAL NEEDS AND THEIR FAMILIES



NATURAL PLAY SCAPE

UNIVERSAL PLAY AREA

ROCHESTER HILLS

CONCEPT



RIVERBEND PARK | IDEAS & CONCEPTS



CRESCENT OVERLOOK







THE CRESCENT
OVERLOOK IS THE FIRST
OPPORTUNITY TO VIEW
THE CLINTON RIVER AND
EXPERIENCE THE
PARK'S NATURAL
BEAUTY

WETLAND OVERLOOK





RIVERBEND PARK | IDEAS & CONCEPTS | WETLAND OVERLOOK



FRAMEWORK PLAN PARK ELEMENTS



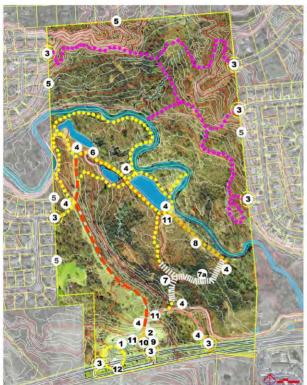
EXISTING CONDITIONS: RIVERBEND PARK





PARK ELEMENTS 1 RIVERBEND PARK





RIVERBEND PARK

PARK ELEMENTS 1 I IDEAS & CONCEPTS

- 1. Finish Parking Lot & Bio-Swale
- 2. Add Primary Signage with Map
- 3. Add Secondary Signage with Park Rules
- 4. Add Wayfinding Elements:
 - Color Coded Wayfinding Markers for Trails
- Signage w/ Rules for Hike & Bike Trails
- 5. Add PVC Boundary Markers with Rules
- 6. 8' Trail: Remain as existing Gravel Trail or Pave 8' Trail
- 7. Complete Boardwalk Trail from Upper Woodlands to 10' Trail Grade for ADA Accessibility to 10' Trail
- 7a. Extend Boardwalk to Utility Easement
- 8. Extend Gravel Hike & Bike Trail from 8' Path through Sanitary Easement to Boardwalk (Clinton Trail Standard)
- 9. Complete Pedestrian / Bicycle Secondary Entrance / Trail Remove Concrete Driveway, replace curb
- 10.Create "Control Port" Roundabout. Connecting Secondary Entrance w/ Parking Lot , Play Area, and Main Trail Spine
- 11. Bike Racks
- 12. Sculpture(s) on Hamlin Road

Additional Programming

- · Extend Utilities into Park
- Begin Removal of Invasive Species in Ponds and Wetlands
- Clear Park Waste and Yard Waste from Adjacent Homes
- Restrooms
- · Add Seating Elements
- · Add Waste Receptacles and Pet Waste Stations
- Trail Stabilization as Needed



PARK ELEMENTS 1

Ideas | Concepts

- 7. Complete Boardwalk Trails
- From Upper Woodlands To 10' Trail
- Grade For ADA Access To 10' Trail
- 7a. From Boardwalk To Utility Easement





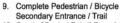


Extend Gravel Hike & Bike Trail From 8'
 Path Through Sanitary Easement To
 Boardwalk (Clinton Valley Trail
 Standard)









 Create "Control Point" Roundabout, Connecting Secondary Entrance W/ Parking Lot, Play Area & 12' Trail Spine







Additional Phase 1 Programming:

- Bike Racks
- · Sculpture in Hamlin Road Median
- Seating
- Waste Receptacles (Human & Pets)









RIVERBEND PARK

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PARK ELEMENTS 1

Ideas | Concepts



RIVERBEND PARK | PARK ELEMENTS 1 | IDEAS & CONCEPTS 1. Finish Parking Lot & Bio-Swale







Sample of Plantings for Bio-Swale:

- a. Grey Dogwood
- b. Blue Iris
- Lipstick Strawberry
- Giant Coneflower
- 2. Add Primary Signage With Map.
- 3. Add Secondary Signage W/ Park Rules
- 4. Wayfinding & Trail Markers:
- · Add Color Coded Wayfinding Markers For Trails
- · Signage W/ Rules For Hike & Bike Trails
- 5. Add PVC Boundary Markers With Rules Along Park Boundary
- 6. 8' Trail:
- · Remain as Existing Gravel Aggregate?
- Pave with Asphalt?

























RIVERBEND PARK

PARK ELEMENTS 2A

HOCHESTER HILLS

RIVERBEND PARK



RIVERBEND PARK

PARK ELEMENTS 2a | IDEAS & CONCEPTS

- 1. Major Grading for Dry Detention Basin
- 2. Stockpile Material Spoils for Landscape Forms
- 3. Create Land Forms
- 4. Create Water Features
 - 4a. Water Wall
 - 4b. Cascading "Waterfall"
- 5. Create Terrace Seating around Dry Basin
- 6. Grade Pads for Senior Play Area
- 7. Grade Pads for Kids Play Area
- 8. Create Trail & Pad for Kayak Landing on Clinton River

Additional Programming

Additional Seating Elements Throughout the Park Landscaping: Native plantings & Seeding Begin Riverbank Stabilization Treatment Create Staging Areas at Specific Locations for Sculptures / Art

Previous Proposals for Stormwater Management at Riverbend Park







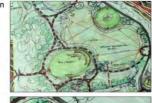
PARK ELEMENTS 2A

Ideas | Concepts



RIVERBEND PARK | PARK ELEMENTS 2a | IDEAS & CONCEPTS 1. Major Grading For Dry Detention Basin

- 2. Stockpile Material Spoils For Landscape Forms
- 3. Create Land Forms

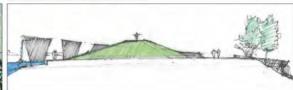






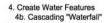


















PARK ELEMENTS 2A

Ideas | Concepts

5. Create Terrace Seating Around Pond







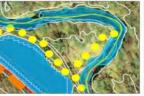








 Create Trail & Pad For Kayak Landing On Clinton River







Additional Phase 2 Landscaping: Planting & Seeding:

- a. River Birch
- b. Pin Oak
- c. Black Tupelo
- d. Purple Coneflower
- e. Ninebark













PARK ELEMENTS 2B

RIVERBEND PARK





PARK ELEMENTS 26 | IDEAS & CONCEPTS

- 1. Major Grading for Pond Basin & Wet Detention Basin
- 2. Stockpile Material Spoils for Landscape Forms
- 3. Create Land Forms
- 4. Lake Development
- 5. Create Water Features 5a Water Wall
 - 5b. Cascading "Waterfall"
- 6. Create Terrace Seating around Dry Basin
- 7. Grade Pads for Senior Play Area
- 8. Grade Pads for Kids Play Area
- 9. Create Trail & Pad for Kayak Landing on Clinton River

Additional Programming

Additional Seating Elements Throughout the Park Landscaping: Native Plantings & Seeding Begin Riverbank Stabilization Treatment Create Staging Areas at Specific Locations for Sculptures / Art

2012 Lawrence Tech University Land Studio Proposals





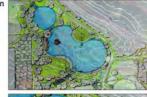


PARK ELEMENTS 2B

Ideas | Concepts

RIVERBEND PARK | PARK ELEMENTS 2b | IDEAS & CONCEPTS 1. Major Grading For Wet Detention Basin 2. Stockpile Material Spoils For

- Landscape Forms
- 3. Create Land Forms











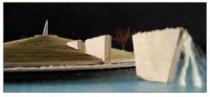




5. Create Water Features 5a. Water Wall









PARK ELEMENTS 2B

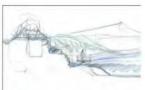
Ideas | Concepts

Create Water FeaturesCascading "Waterfall"







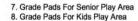


6. Create Terrace Seating Around Pond







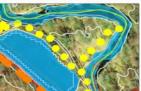








Create Trail & Pad For Kayak Landing On Clinton River







Ideas | Concepts

RIVERBEND PARK | PARK ELEMENTS 3 | IDEAS & CONCEPTS

- 1. Add Senior Play Elements -
- Pickleball
 - Bocce Ball
- Exercise Stations
- Gathering/ Observation Area/ Seating/ Shelter



- Natural Playscape
- Sensory Garden
- Tree House
- Special Needs Play Area
- Spiral Mound
- 3. Create Trail Connection Between Senior Play Area and Kids Play Area
- 4. Add Pavilion / Shelter On North End



- Control Point / Roundabout
- Secondary Entrance On Hamlin
- Point Of Interest From Bird's Nest *Integrate Wi-Fi Within Sculpture





























STRATEGIC FRAMEWORK PLAN Design Team+



RIVERBEND PARK





RIVERBEND PARK

PARK ELEMENTS 3 | IDEAS & CONCEPTS

- 1. Add Senior Play Elements:
 - · Pickleball (removed based upon votes)
 - Bocce Ball
 - Exercise Stations
 - · Gathering / Observation Area / Seating / Shelter
- 2. Add Kids Play Elements:
 - · Natural Playscape
 - · Sensory Garden
 - · Tree House
 - · Special Needs Play Area
 - · Spiral Mound
- 3 Create Trail Connection from Adult to Kids Area
- 4 Add Pavilion / Shelter on North End
- 5. Add Art & Sculptures
- 6. Create "New" Park Main Entrance

Additional Programming

- Add Structure for Maintenance with Restroom in Zone 1
- · Expand Landscape Natural / Functional Plantings and Seeding
- · Remediation of Invasive Plant Species from Wetland and Stormwater Detention Basins



Ideas | Concepts

6. Create "New" Park Main Entrance





- Remediation Of Invasive Plant Species From Wetlands And Stormwater Detention Basins



- Expand Landscape Plantings
- **Detailed Areas**
- Native Plants And Others With Specific Functions

Additional Landscape Plantings:

- a. Swamp White Oak
- Thornless Honeylocust Red Twig Dogwood
- Big Bluestem
- Prairie Dropseed



INDIGENOUS

LANDSCAPE RESTORATION SITE

Watch Inis forest













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RIVERBEND PARK





RIVERBEND PARK

- Add Crescent Overlook of River
- 2. "The Point" Observation Point
- 3. Wetland Observation Tower
- 4. "Bird's Nest" Elevated Viewing Platform
- Shelter Structure
 5a. Adult Area
 5b. Kids Area
- 6. Add Living Art & Architecture

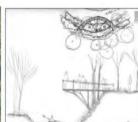
Ideas | Concepts



RIVERBEND PARK | PARK ELEMENTS 4 | IDEAS & CONCEPTS 1. Add Crescent Overlook Of River







2. "The Point" Observation Deck



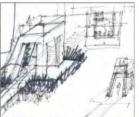




3. Wetland Observation Tower



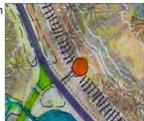




Ideas | Concepts

4. "Bird's Nest" Elevated Viewing Platform









- 5. Shelter Structure
- a. Adult Area
- b. Kids Area







6. Add Living Art & Architecture







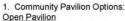
PARK ELEMENTS 5:

Plan Ideas | Concepts



RIVERBEND PARK





- Open Air
- · Simple Structure
- Fire Pit
- · Photovoltaic Panels on Roof?
- Green Roof?

Complex Pavilion

- Enclosed
- Multi-I evel
- · Flexible Space for Programming
- Options
- · Fire Pit
- · Photovoltaic Panels on Roof?
- · Green Roof?
- Weather Station & Monitoring Equipment











2012 Lawrence Tech University Land Studio Proposals









RIVERBEND PARK

6:

Ideas | Concepts





RIVERBEND PARK







- Prefabricated Steel Truss Bridge from South Park Property to North Open Space Property to link both sides of the Park.
 - Requires +/- 600 to 800 linear feet to connect neighborhoods to the Park (removed based upon voting)







- Secure Additional Green Space to Complete the Aggregate Hike & Bike Trail Along Sanitary Easement (Clinton Trail Standard)
 - Continue Trail Along the Old Hamlin Road R.O.W. Connecting to the East Park Entrance
- 3. Alternative suggestion by voters was to include a rope bridge

FINDINGS



PUBLIC ENGAGEMENT Park Plan Presentation Review





Steering Committee, members of the Planning Commission and City Departments viewed the presentation and voted on the Park Elements.



RIVERBEND PARK PHASE 2b

- 1. Major Grading For Pond Basin & "Wet" Detention Basin . .
- 2. Stockpile Material Spoils For Landscape Forms 3. Create Land Forms
- 4. Lake Development
- 5 Create Water Features:
- 5a. Water Wall 5b. Cascading "Waterfall"
- 6. Create Terrace Seating Around Dry Basin
- 7. Grade Pads For Senior Play Area
- 8. Grade Pads For Kids Play Area 9. Create Trail & Pad For Kayak Landing On Clinton River
- Additional Programming
- Additional Seating Elements Throughout The Park
- Landscaping: Planting And Seeding
- Begin Riverbank Stabilization Treatment

RIVERBEND PARK PHASE 4

- 1. Add Crescent Overlook Of River
- 2. "The Point" Observation Deck
- Wetland Observation Tower
 Bird's Nest' Elevated Viewing Platform 5. Shelter Structure .
 - 5a. Adult Area
- 6. Add Living Art & Architecture



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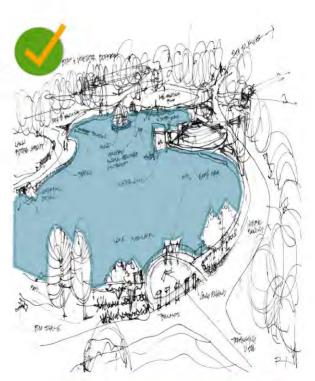
SUMMARY



Voters conveyed consistent & overwhelming support for the majority of the conceptual park elements proposed in RIVERBEND PARK.

Elements that garnered the greatest support include: the water features, the mound, the universal play area, extended trails and bird's nest.

Conversely, elements that received little support include: the bridge and pickleball courts.





SHARING THE VISION



Presentation of the proposed park elements with special attention to the Universal Design Area for Kids and Park Tour was conducted for Lt. Governor Brian Calley and quests.





Lt. Governor Brian Calley and Mayor Bryan Barnett



RIVERBEND PARK | IDEAS & CONCEPTS



Park Design Presentation by Ralph Núñez

DONOR

Steve and Vivian Stolaruk Foundation

CITY OF ROCHESTER HILLS

Mayor Bryan Barnett

Maria Willett - Chief Assistant to the Mayor

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Ed Anzek, AICP Director of Planning and Development Sara Roediner, ACIP Manager of Planning

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Mike Hartner - Director of Park and Recreation

Alan Buckenmeyer, Lance Devoe

ENGINEERING DEPARTMENT

Allen Schneck, P.E. Department of Public Services Director MANAGEMENT INFORMATION SYSTEMS

Bob Grace - Director

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Professors Will Allen, Ralph Núñez, Donn Perez

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"WE SHALL NOT CEASE FROM EXPLORATION, AND THE END OF ALL OUR EXPLORING WILL BE TO ARRIVE WHERE WE STARTED AND KNOW THE PLACE FOR THE FIRST TIME."

T. S. ELIOT





RIVERBEND PARK SCENIC BEAUTY









