



John F. Burke Nature Preserve Master Plan

City Council Update
August 16, 2016



Advisory Committee

Mike Hawkins, *Park Board*

Barbara Leedy, *Park Board*

Peggy Smith, *Park Board*

Rodger Cramer, *FB Resident*

Jim McIntosh, *Master Naturalist*

Pat Canuteson, *Valwood Improvement Authority*

Mark Schallhorn, *Carrollton-Farmers Branch ISD*

Tony Lucido, *NTTA*

Andy Gilles, *FB Director of Planning*

Randy Walhood, *FB Director of Public Works*

Jeff Harting, *FB Director of Parks & Recreation*

Charles Cancellare, *FB Parks & Recreation*

Pam Smith, *FB Parks & Recreation*

Mitzi Davis, *FB Parks & Recreation*

Kerry Phillips, *FB Parks & Recreation*

Steve Pace, *FB GIS*



Planning Process

Data Gathering

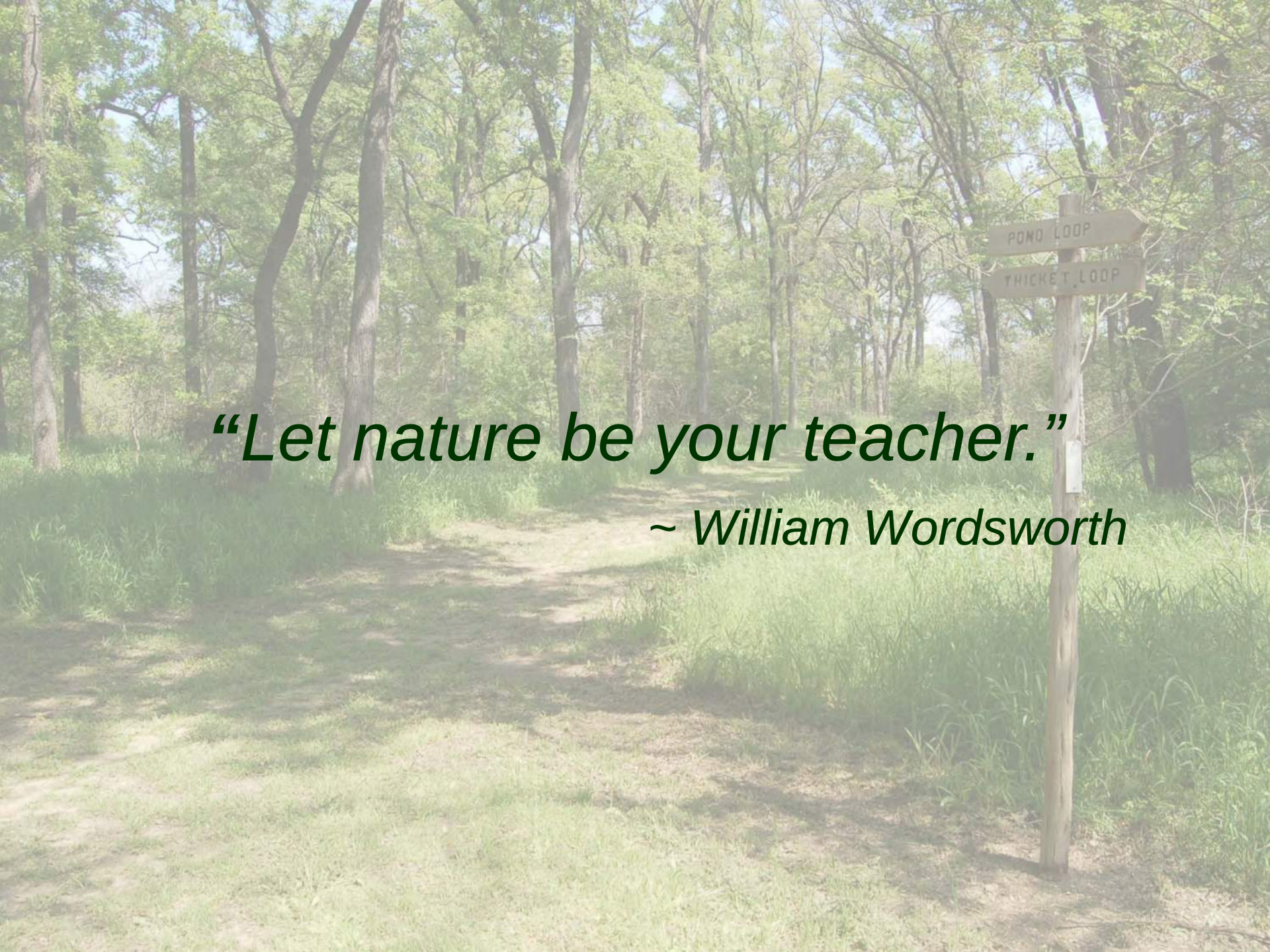
- ✓ Base Mapping
- ✓ Advisory Committee Kick Off & Site Review
- ✓ Site Analysis

Benchmarking & Programming

- ✓ Visit DFW Benchmark Projects
- ✓ Develop Initial Program List
- ✓ Community Meeting

Concept Development & Final Master Plan

- ✓ Concept Plan
- ✓ Preliminary Master Plan (w/ Cost Estimate)
- ✓ Presentation to Park Board / Council
- ❑ Final Master Plan

A dirt path winds through a lush green forest. Sunlight filters through the trees, creating dappled shadows on the path. On the right side of the path, a wooden signpost stands with two directional signs. The top sign points right and says "POND LOOP". The bottom sign points left and says "THICKET LOOP".

“Let nature be your teacher.”

~ William Wordsworth

- ENTRY / ARRIVAL
- CORE ACTIVITIES
- THE WOODS
- THE WETLANDS
- MEADOW RESTORATION
- UPPER POND
- TRAILS

- ENTRY / ARRIVAL
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- **ENTRY / ARRIVAL**
- **CORE ACTIVITIES**
- **THE WOODS**
- **THE WETLANDS**
- **MEADOW RESTORATION**
- **UPPER POND**
- **TRAILS**

- **ENTRY / ARRIVAL**
- **CORE ACTIVITIES**
- **THE WOODS**
- **THE WETLANDS**
- **MEADOW RESTORATION**
- **UPPER POND**
- **TRAILS**



Picnic
Stations

Gateway
Columns

Wayfinding
Trailhead

Group
Pavilion

Wayfinding
Trailhead

Parking

Monument
Sign

Native
Plantings

Restrooms

Bus
Parking

Future
Trail Network
Connection

Hike & Bike
Trail (12')

Future
Trail Network
Connection



Monument Sign



Parking Improvements



Bus Parking



Restroom



Group Pavilion

- ENTRY / ARRIVAL
- CORE ACTIVITIES
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Elm Fork Trinity River

Group
Camping

Soft
Trails

Native Plant
Restoration

Soft
Trails

Council
Ring

Activity
Pond

Boardwalk

Pier

Bench
Seating

Wildlife
Blind

Event
Lawn

Concrete
Trail Loop

Picnic
Stations

Amphitheater
Classroom

Gateway
Columns

Wayfinding
Trailhead

River
Overlook

Group
Pavilion

Wayfinding
Trailhead



Event Lawn



Pond Trail Loop



Boardwalk Trails



Observation Platforms



Council Ring



Amphitheater Classroom



Canopy Boardwalk



River Overlook

- ENTRY / ARRIVAL
- CORE ACTIVITIES
- THE WOODS
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- UPPER POND
- TRAILS





Observation
Platform

**Wetland
Overlook**

Lookout
Point

Lookout
Point

Soft
Trails

**Upper
Woods**

Wildlife
Blind

Boardwalk

Interpretive
Trailhead

Seasonal
Restrooms

Wayfinding
Signage

Outdoor
Classroom

**Open
Meadow**

**Group
Camping**

Soft
Trails

Native Plant
Restoration

Elm Fork Trinity River

Soft
Trails

Council
Ring

President George Bush Turnpike

Hike & Bike Trail/
Service Access



Soft Trails



Wildlife Blinds



Observation Platform



Educational Signage



Wildlife Blind

Event Lawn

Bench Seating

Concrete Trail Loop

Amphitheater Classroom

Picnic Stations

Gateway Columns

Wayfinding Trailhead

River Overlook

Canopy Boardwalk

Group Pavilion

Wayfinding Trailhead

Lower Woods

Future Trail Network Connection

Monument Sign

Native Plantings

Parking

Restrooms

Bus Parking

Soft Trails

Hike & Bike Trail (12')

Future Trail Network Connection

Pedestrian Bridge

Gateway Columns

Wayfinding Trailhead

Veloweb Connection to Campion Trails

Paddling Trail Launch



Soft Trails



Pedestrian Bridge



Lookout Points



Gateway & Veloweb Connection



Paddling Trail Launch

Master Plan

- ENTRY / ARRIVAL
- CORE ACTIVITIES
- THE WOODS
- **THE WETLANDS**
- MEADOW RESTORATION
- UPPER POND
- TRAILS

- ENTRY / ARRIVAL
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- TRAILS



Open Meadow

Soft Trails

Wayfinding Trailhead

Native Plant Restoration

Hike & B
Service

Wetland Overlook

Lookout Point

Lookout Point

Boardwalk

Interpretive Trailhead

Upper Woods

Soft Trails

Wildlife Blind

Observation Platform



Boardwalk Trails



Lookout Points

At one time wetlands were considered to be wastelands that should be drained or destroyed. Their ecological and environmental functions were little understood or appreciated until it was almost too late.

In the last 200 years in the state of Texas, over 56% of the wetlands have been lost in large part due to agriculture where the wetlands were drained for farming. The increased pressure from urban development is a growing concern for the remaining wetlands.

Why are **WETLANDS** Important?

In an age when man has forgotten his origins and is blind even to his most essential needs for survival, water along with other resources has become the victim of his indifference.

— Rachel Carson



Today Wetlands are Recognized for the Complex Benefits They Hold

FLOOD CONTROL



Wetlands near streams and rivers provide a place for floodwaters to be absorbed and slowly released. This is beneficial by decreasing erosion and flood damage, and decreasing potential property loss.

AQUIFER RECHARGE

Wetlands ability to store and slowly release water replenishes ground water supply and recharges aquifers. The East Fork Wetland lies over the Trinity Aquifer.



WATER QUALITY



Wetland plants improve water quality through their ability to absorb the impurities in the water. They slow the water so that sediment will settle to the soils underwater.

WILDLIFE HABITAT

Wetlands provide habitat for countless diverse species of wildlife including resident and migratory waterfowl like ducks and geese, songbirds, mammals, amphibians, insects, and reptiles. Crustaceans too!



NUTRIENT SOURCE



Wetlands hold nutrients which increases the food supply that supports the food web. These nutrients are then passed up the food chain and eventually reach people.

ECONOMIC RESOURCE

The coastal marshes of Texas are marshes for shrimp, fish, and crabs. These marshes provide a habitat and site of great economic importance for many coastal fisheries.



RECREATION



Wetlands provide recreation for fishing, hunting, photography, wildlife viewing, and canoeing. These activities not only improve the local economy but provide an opportunity for education with an appreciation for nature.

EDUCATION

Wetlands provide a natural laboratory for studying the relationship between the land and water. Wetlands are a natural laboratory for studying the relationship between the land and water.



Interpretive Signage



Wildlife Viewing

Meadow Restoration



Master Plan

- ENTRY / ARRIVAL
- CORE ACTIVITIES
- THE WOODS
- THE WETLANDS
- **MEADOW RESTORATION**
- UPPER POND
- TRAILS



Open Lawn

Open Meadow

Soft Trails

Native Plant Restoration

Wayfinding Trailhead

Access Gate

Future Trail Network Connection

Observation Platform

Wetland Overlook

Lookout Point

Lookout Point

Soft Trails

Upper Woods

Wildlife Blind

Boardwalk

Hike & Bike Trail/ Service Access

Interpretive Trailhead

Open Meadow

Seasonal Restrooms

Wayfinding Signage

Outdoor Classroom

Group Camping

Soft Trails

Native Plant Restoration

Elm Fork Trinity River

President George Bush Turnpike

City of
City of Far



Meadow Trail



Interpretive Trailhead



Outdoor Classroom



Outdoor Classroom

Upper Pond



Master Plan

- ENTRY / ARRIVAL
- CORE ACTIVITIES
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- UPPER POND
- TRAILS



Soft
Trails

Observation
Platform

Picnic
Stations

Wildlife
Blind

Upper
Pond

Open
Lawn

Cooks Creek

Open
Meadow



Education / Interaction



Picnicking



Wildlife Viewing



Nature Trails

Trail Hierarchy

- 12' Concrete Hike & Bike Network Connection
- Pedestrian Bridge
- 10'-12' Concrete Trail
- 6' Concrete Pond Loop
- Boardwalks
- Soft Trails
- Mowed Paths





Concrete Trails



Soft Trails



Nature Trails

SUMMARY OF BUDGET TOTALS:

A. ESTIMATED CONSTRUCTION COSTS

1.	GENERAL SITE ITEMS	\$525,000.00
2.	UPPER POND	\$141,000.00
3.	WETLAND/EDUCATIONAL OVERLOOK	\$668,550.00
4.	MEADOW RESORATION AREA	\$547,250.00
5.	CORE ACTIVITIES	\$721,450.00
6.	WOODS	\$1,502,850.00
7.	ENTRY / ARRIVAL	\$558,970.00

BASE TOTAL	\$4,665,070.00
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+/- 10% CONTINGENCY	\$500,000.00
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CONSTRUCTION TOTAL	\$5,165,070.00
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B. OWNERS COSTS (Geotech, Testing, TDLR, Archaeological Survey, USACE Permitting, etc.) (Approx. 2% of Construction)	\$100,000.00
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C. A&E SERVICES	\$465,000.00
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PROJECT BUDGET TOTAL:

\$5,730,070.00



Discussion