Agenda

• Provide Background and Objectives of Project

• Provide Update on Design Progress and Schedule

• Receive Public Feedback and Comments
Project Background
Indian Creek Golf Course Pond - History and Functionality

- Built originally as an overflow pond for golf course irrigation. No longer required per adjacent ponds.

- Does not detain water and does not serve as a dam.

- Severe sediment build-up
  - Shallow water (1 to 3 foot maximum depth)
  - Limits recreational activities and fishing.

- Complicated for City to maintain.
- Per 2013 BGE Flood Study – Pond contributes to increases in flood depths.
Dudley Branch - Historic Flooding

DURING DRY CONDITIONS

AFTER HEAVY RAIN EVENT

Photo 1: Eisenhower Street Bridge in the October 2007 flood event, after peak flow.
Objective: Enhance the environmental, ecologic and aesthetic value of the pond site

- Still in the design phase and based on public input, City/HDR will be adjusting design if it warrants a change

- U.S. Corps of Engineers - jurisdiction & required permit approval prior to construction

- Improvements Options:
  1. Pond Dredging (not feasible)
  2. Fill the eastern half of pond, natural channel, and wetland
  3. Other options - hike and bike trail / open areas for recreation
Design Phase – Proposed Improvements
Design Phase – Proposed Improvements

DUDLEY BRANCH SUGGESTED IMPROVEMENTS
(SECTION VIEW)

- INDIAN SPRINGS SUB-DIVISION
- PROPOSED FORESTED BUFFER ZONE
- PROPOSED NATURAL CHANNEL
- PROPOSED FORESTED WETLAND
- PROPOSED HIKE & BIKE TRAIL (INDEPENDENT PROJECT) (ONCOR EASEMENT)
- INDIAN CREEK GOLF CLUB

EXISTING POND

APPROX 40' WIDE

APPROX 180' WIDE

PROPOSED EARTHEEN DIVIDING BERM
• Section 404 of the Clean Water Act of 1977
  • Restore and maintain the physical, chemical and biological integrity of the Nation's waters
  • USACE regulates the discharge of dredged or fill material within waters of the United States

• The discharge of dredged or fill material into waters of US is “trigger” that requires some form of authorization under Section 404 from USACE
  2 Avenues:
  1. General Permits – Nation Wide Permit, Regional Permit, and Programmatic Permit
  2. Individual Permits – Letters of Permission and Standard Individual Permit
Design Phase – 30% Engineering Plans

Indian Springs

Section View (next slide)
Design Phase – 30% Engineering Plans
Design Phase – Completion

Sample photo - reference natural channel - fully vegetated
Next Steps - Schedule

1. Project Design – Ongoing  (70% engineering plans finished by fall of 2019)

2. USACE Permitting – Begin review end of 2019
   a) Permit tentatively awarded by April-May 2020
   b) Schedule delay if a more complex permit is required
      (Example: Individual Permit)

3. Bidding & Construction
   a) After USACE permit and engineering plans finished
   b) Construction start - Mid to late 2020 (12 months to build)
   c) Finish by mid to late-2021
Design Phase – Future Considerations

- Enhance ecological area for the community
- Opportunity for more trees and recreational areas
- Property value enhancement
Public Feedback & Comments

- Comment Cards

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- Please provide comments by 9/20/2019