

**PUBLIC WORKS COMMITTEE MEETING  
WEDNESDAY, APRIL 27, 2022 – 4:00 P.M.  
REMOTE ACCESS MEETING – ZOOM  
MINUTES**

**I. ROLL CALL/CALL TO ORDER**

Chairman Jim Preschlack called the virtual meeting to order at 4:00 P.M. Aldermen Jennifer Karras and Ted Notz were in attendance.

Chairman Preschlack stated that in accordance with state statute, he made the determination that it was not practical or prudent to schedule an in-person Public Works Committee meeting because of the COVID-19 pandemic, and therefore the meeting was being held remotely.

Staff virtually attending the meeting included Michael Thomas, Director of Public Works; Dan Martin, Superintendent of Public Works; Byron Kutz, Superintendent of Engineering; Chuck Myers, Superintendent of Parks & Forestry and Jim Lockefer, Assistant to the Director of Public Works.

**II. NEW BUSINESS / ACTION ITEMS**

**1. APPROVAL OF APRIL 19, 2022 PUBLIC WORKS COMMITTEE MEETING MINUTES**

Alderman Notz moved to approve the April 19, 2022 Public Works Committee meeting minutes. Alderman Karras seconded the motion, which carried unanimously.

**2. REVIEW AND RECOMMEND APPROVAL TO CITY COUNCIL AWARD OF ARCHITECTURE/ENGINEERING SERVICES FOR SYNTHETIC TURF FIELD AT DEERPATH COMMUNITY PARK**

Superintendent Myers reviewed the below summary presentation slides on the topic.

**SYNTHETIC TURF FIELD AT DEERPATH COMMUNITY PARK – BACKGROUND**

- On April 4, 2022, City Council approved the following motion:

A recommendation from the Parks and Recreation Board to authorize and direct the City Manager to conduct a Request for Proposals process to select a firm to complete an engineering and design study for artificial turf athletic fields at Deerpath Park, with consideration for the overall size and incorporation of sustainable practices. After completion of the Request for Proposals process, return to the City Council for consideration of the award of the contract.



## SYNTHETIC TURF FIELD AT DEERPATH COMMUNITY PARK – RFP PROCESS

- Team of eleven City staff worked together to develop Request for Proposal (RFP) document
  - RFP document went through multiple team revisions; team worked together to capture all City Council requested RFP additions made at the April 4, 2022, City Council meeting
- Final RFP contained detailed information on project background, scope of work, submission requirements, and process and project schedule
  - Data collection / site planning & design (including two options for turf field size) / construction documents / permit coordination / bidding phase services
- RFP highlighted that "the City wants to be in the forefront of a sustainable synthetic turf field complex"
  - Preliminary ideas presented in the RFP included improving storm water quality runoff, protecting surrounding habitats, and the incorporation of green infrastructure (trees, native plants, bioswales, rain gardens, permeable surfaces, and green roofs)
- Scored proposals based on firm experience/qualifications, experience with synthetic turf project design, experience with environmentally sustainable design & green infrastructure BMPs, experience with municipal government projects / results achieved, references, project understanding, and proposal cost
- RFP Review Committee conducted interviews with both proposal teams

Consultant Firm Team	Proposal \$
<b>Hitchcock Design Group</b>	<b>\$388,000</b>
Gewalt Hamilton Associates, Inc.	\$526,000



## SYNTHETIC TURF FIELD AT DEERPATH COMMUNITY PARK – RECOMMENDATION

- After an extensive review of the proposals received, firm interviews, reference checks, and multiple team meetings; the RFP Review Committee selected the Hitchcock Design Group team as the recommended team to complete this design work
- Hitchcock Design Group is a landscape planning / landscape architecture firm that specializes in recreation planning and design
- Hitchcock Design Group has successfully partnered with the City on several projects in recent years
  - Strategic Master Plan entitled *Chart Our Future* and the follow-up on *Athletic Field Assessment*
  - South Park Improvement Project
- Hitchcock Design Group has compiled a team of professional firms to meet the specialized technical challenges of this project
  - Primera Engineers
  - Hey & Associates
  - Robert Juris & Associates Architects
  - W.B. Olson Construction Management
- City staff will evaluate the options for construction oversight, which may include a construction manager, and return to City Council to request approval of such services



## SYNTHETIC TURF FIELD AT DEERPATH COMMUNITY PARK – SCHEDULE

### *Preliminary Design*

#### **Inventory and Analysis**

May 2 – Jun. 6, 2022

#### **Schematic Design**

Jun. 7 – Aug. 29, 2022

### *Final Design*

#### **Design Development**

Aug. 30 – Oct. 24, 2022

#### **Permitting**

Oct. 25, 2022 – Dec. 14, 2022

#### **Construction Documents**

Oct. 25, 2022 – Nov. 11, 2022

#### **Bidding**

Nov. 21, 2022 – Jan. 2, 2023

### *Construction*

#### **Administration**

#### **Observation**

#### **Close-out**

Jan. 3, 2023 – Aug. 1, 2023

## SYNTHETIC TURF FIELD AT DEERPATH COMMUNITY – ACTION REQUESTED



**Action requested: PW Committee recommends City Council Award the Architecture/Engineering Services for New Synthetic Turf Field at Deerpath Community Park to Hitchcock Design Group in the Amount of \$388,000 plus 10% Contingency in the Amount of \$38,800, for a Total of \$426,800**

The Committee and City staff discussed the City staff team that was comprised to develop the Request for Proposal (RFP) and review the proposals received, the cost difference between the proposals received, the review criteria that was utilized to evaluate proposals, Hitchcock Design Group project experience related to synthetic turf, Hey and Associates experience related to sustainability and green infrastructure, the standard timing related to City RFP issuance and solicitation, past City work and projects completed by Hitchcock Design Group,

Hitchcock Design Group's experience with different types of synthetic turf infill, the estimated useful life of the synthetic turf infill, and field playability.

Alderman Notz moved to recommend approval to City Council award of architecture and engineering services for the new synthetic turf field at Deerpath Community Park to Hitchcock Design Group in the amount of \$388,000, plus 10% contingency in the amount of \$38,800, for a total of \$426,800. Alderman Karras seconded the motion, which carried unanimously.

### 3. **REVIEW AND RECOMMEND APPROVAL TO CITY COUNCIL AWARD OF CONTRACT TO PURCHASE REPLACEMENT MEMBRANE MODULES AT THE WATER TREATMENT PLANT**



Superintendent Martin reviewed the below summary presentation slides on the topic.

**WATER PLANT REPLACEMENT MEMBRANE MODULES – BACKGROUND**

- Existing modules were installed in three phases during the 2017 Water Treatment Plant Improvements Project


Date	Milestone
January 2018	First two trains of modules (1 and 2) with 144 modules each were placed into commission; new system of modules supplied by Suez required to function alongside the previous Aquasource membrane system
April 2018	Two additional trains (3 and 4) were placed into commission; remainder of the Aquasource modules and equipment demolished
January 2019	Last two additional trains (5 and 6) were placed into commission

- There has been continued monitoring and testing by Suez of all existing membrane modules over the past four-years to include:
  - Long-term performance demonstrations, 24/7 emergency telephone technical support, process consulting through remote monitoring and diagnostic services, bi-weekly performance reports, and scheduled WTP site visits



**WATER PLANT REPLACEMENT MEMBRANE MODULES – BACKGROUND**

- In June 2021, it was observed the performance of the membrane modules in trains 1 and 2 had started to drastically decline compared to the previous years
  - Resulted in increased chemical use and costs above operating budget amounts
- City staff and Strand Associates (City's Water Plant Engineering Service firm) had Suez complete a thorough study of trains 1 and 2
- Study found fouling elements and provided membrane cleaning strategies to potentially extend estimated useful life of the replacement membrane modules
  - Cleaning strategies identified in the study were performed on all six membrane module trains; no major improvements
- Performance testing revealed trains 1 and 2 were not able to recover enough performance loss to filter the design capacity, deeming membrane replacement necessary





## WATER PLANT REPLACEMENT MEMBRANE MODULES – RECOMMENDATION

- FY23 Water Fund Capital Budget - \$215,000
- Replacement of trains 1 and 2 = 288 modules
- The modules to be replaced have exhibited excessive fouling and have reached the end of their useful production life
- Replacement modules needed to continue to provide sufficient drinking water production capacity
- City staff obtained replacement pricing from Suez based on their existing relationship with the City (Administrative Directive 3-5, Section 6.11)

Project Component	Cost Proposal
288 Replacement Modules	\$205,000
Suez On-Site Factory Service Rep. to Oversee Module Install	\$10,000
<b>TOTAL</b>	<b>\$215,000</b>

- City WTP staff to install replacement modules with the support of Suez factory service rep., prior to this summer's high-water demand
- Under Contract 2-2015, the specification language included pro-rated module pricing guarantees that Suez is honoring with this purchase
  - This reduced the purchase cost of modules by approximately 58%
  - The pro-rated pricing is based on a 10-year membrane life as presented in a 20-year total cost of ownership bid
- Going forward:
  - Staff will further clarify module replacement costs consistent with contract 2-2015 for trains 3 – 6 in FY24 & FY25
  - WTP staff to continue to work with Suez on operational modifications to improve performance and estimated useful life of membrane modules
- **Action requested: PW Committee recommends City Council award of contract to Zenon Environmental Corporation [doing business as Suez Water Technologies & Solutions] to Purchase 288 Replacement Membrane Modules Included in the FY '23 Budget, in the amount of \$205,000 and \$10,000 for On-Site Technical Support, for a Total of \$215,000**

The Committee and City staff discussed the overall positive health and high confidence of the City's Water Plant.

Alderman Notz moved to recommend approval to City Council of award of contract to Zenon Environmental Corporation [doing business as Suez Water Technologies & Solutions] to purchase 288 replacement membrane modules included in the FY '23 budget, in the amount of \$205,000 and \$10,000 for on-site technical support, for a total of \$215,000. Alderman Karras seconded the motion, which carried unanimously.

### III. ASSET, INFRASTRUCTURE, & SERVICE HIGHLIGHTS

There were no Committee discussions.

### IV. FY '23 PROJECT ROADMAP STATUS CHART

There were no Committee discussions.

### V. BUDGET / HIRING / INNOVATION UPDATES

There were no Committee discussions.

### VI. PUBLIC COMMENT

There was no public comment.

### VII. NEXT MEETING – May 26, 2022

The Committee agreed to meet on May 26, 2022.

### VIII. ADJOURNMENT

Alderman Karas moved to adjourn the meeting of the Public Works Committee at 5:07 P.M. Alderman Notz seconded the motion, which carried unanimously.

Respectfully submitted,

Jim Lockefeer Jr.  
Assistant to the Director of Public Works