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MEMORANDUM

TO: Robert Hausler, Mayor
Kathy Miller, Clerk
Janet Goehst, Treasurer
City Council Members

FROM: Darrin Boyer, WWTP

Date: June 22, 2016

Re: **ORP Monitoring and Mixer Control**

The city's water reclamation facility has 5 selector tanks. These tanks are responsible for the development of phosphorus assimilating bacteria (PHB), and the removal of nitrates. A very good control for these selector tanks is oxidation reduction potential (ORP). With a good plotted history of ORP levels, I am able to determine what environmental pressure is being applied.

There is the potential for energy savings with the on/off cycling of the selector mixing equipment. Mixing equipment could be integrated into our existing SCADA system for control. Mixers could be turned on and off automatically based on ORP levels.

Account number 25-700-65-00-7310 (New Operating Equipment) there is \$15,000.00 budgeted for this purchase. Attached is a quotation from Hach for the purchase of the ORP equipment needed.

I recommend the city purchase new ORP equipment from HACH in the amount of 10,801.50.



Quotation

Hach
 PO Box 608
 Loveland, CO 80539-0608
 Phone: (800) 227-4224
 Email: quotes@hach.com
 Website: www.hach.com

Quote Number: 100159567v6
 Use quote number at time of order to ensure
 that you receive prices quoted

Quote Date: 05/04/2016

Quote Expiration: 07/03/2016

CITY OF PLANO

Name: Darrin Boyer
 Phone: 630-552-8007
 Email: dbboyer2006@comcast.net

Sales Contact: Domenick Angiello Email: dangiell@hach.com Phone: 630-659-7532

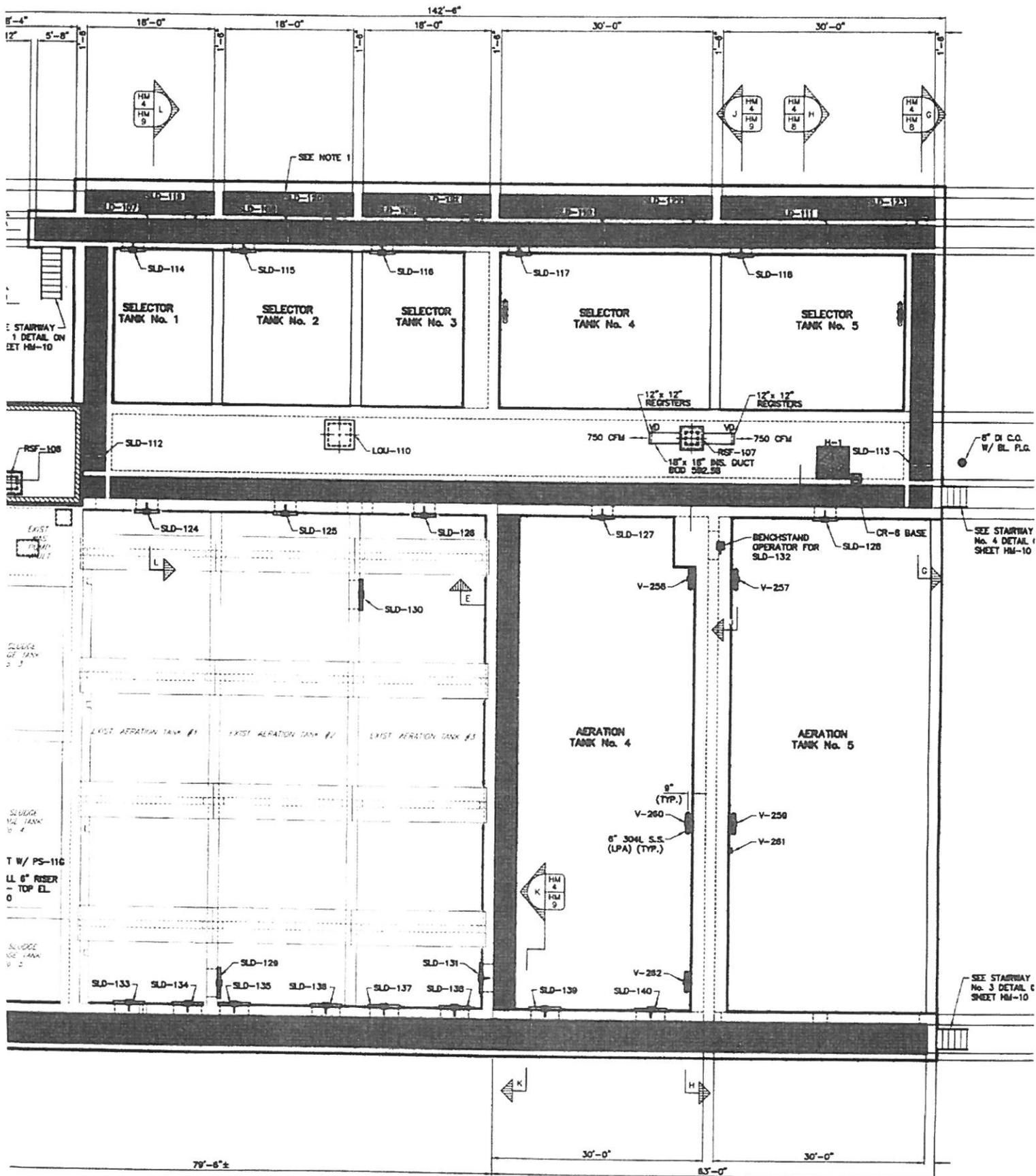
PRICING QUOTATION

Line	Part Number	Description	Qty	Net Unit Price	Extended Price
1	DRD1P5	pHD sc, Differential ORP Digital Sensor, PEEK Body Material, Convertible Body Style, Platinum Electrode, 70 C (158 F) Maximum Temperature	2	994.65	1,989.30
2	MH236B00Z	pHD Immersion Mounting Hardware, handrail hardware, CPVC	4	428.45	1,713.80
3	DPD1P1	pHD sc, Differential pH Digital Sensor, PEEK Body Material, Convertible Body Style, General Purpose Glass Electrode, 70 C (158 F) Maximum Temperature	2	931.95	1,863.90
4	LXV404.99.00552	sc200 CONTROLLER, AC-DC, 2 DIG, HACH	2	1,749.90	3,499.80
5	9220600	COVER ASSY, UV & SUN SHIELD, sc200	2	183.35	366.70
Grand Total					\$ 9,433.50

RECOMMENDED ACCESSORIES & SERVICES

Line	Part Number	Description	Qty	Net Unit Price	Extended Price
Alternate					
1	WRTUPGSC200	Comprehensive warranty upgrade includes: Instrument start-up, all parts, labor, and travel for on-site repairs, 1 on-site factory recommended maintenance (including required parts), unlimited technical support calls, and free firmware updates. On-site response for "down" instrument repairs is typically 3 business days. Standard business hours are 8am-5pm M-F local time, excluding holidays. Please see service terms and conditions for additional details on our service plans, and to ensure you have an opportunity to review our environmental and safety requirements.	4	228.00	912.00
2	WRTUPGGLPHORP	Comprehensive warranty upgrade includes: Instrument start-up, all parts, labor, and travel for on-site repairs, 1 on-site calibration per year, factory recommended maintenance (including required parts), unlimited technical support calls, and free firmware updates. On-site response for "down" instrument repairs is typically 3 business days. Standard business hours are 8am-5pm M-F local time, excluding holidays. Please see service terms and conditions for additional details on our service plans, and to ensure you have an opportunity to review our environmental and safety requirements.	2	228.00	456.00
Grand Total					\$ 1,368.00

TERMS OF SALE



ORDINANCE NO. 2016-

**AN ORDINANCE AMENDING TITLE 8 OF THE PLANO CITY CODE
ADDING A NEW REVISED CHAPTER 14 PROVIDING FOR THE
REGULATION OF COLLECTION BINS FOR DONATED ITEMS**

WHEREAS, Chapter 11-42-3 of the Illinois Municipal Code provides that “The Corporate Authorities of each Municipality may license, tax, locate, and regulate, all places of business of dealers in junk, dismantled or wrecked motor vehicles or parts thereof, rags, and any second-hand article whatsoever” (65 ILCS 5/11-42-3); and

WHEREAS, the Corporate Authorities of each Municipality are granted by Statute the power to “define, prevent, and abate nuisances” (65 ILCS 5/11-60-2); and

WHEREAS, after study and deliberation the City Council has determined that the maintenance of bins, boxes or containers that are accessible to the public and intended for the collection of items including, but not limited to, second hand clothes or toys, because of the manner in which they are maintained, require regulation for the following reasons:

a) Clothes, toys, and other articles of personal property, intended as “donated items” are often strewn about the outside of the containers;

b) The containers are not maintained and emptied on a regular basis;
and

c) Household garbage and waste is sometimes deposited in or about the collection containers; and

WHEREAS, the City Council has determined that has determined that it is in the best interests of the City for the protection of the health, safety and welfare of the

inhabitants of the City of Plano, to regulate and license the installation and maintenance of collection bins for donated second hand articles.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Plano, Kendall County, Illinois, as follows:

Section 1. That Title 8 of the Plano City Code be amended by adding thereto a new revised Chapter 14 as follows:

“CHAPTER 14 COLLECTION BINS FOR DONATED ITEMS

8-14-1: Definition.

“Collection bins for donated items” are defined as any bin, box or container that is accessible to the public and is intended for the collection of items, including but not limited to, second hand clothes and toys intended for donation.

8-14-2: Location.

Donation drop boxes are permitted if located on property in the Business or Commercial Zoning Districts or on properties primarily occupied by an educational, religious, governmental or charitable use. The boxes shall only be placed with the property owner’s permission and on properties that contain an existing and operating use. No more than two boxes (side-by-side) are allowed on a zoning lot less than two (2) acres in size. No more than three boxes (side-by-side) are allowed on a zoning lot equal to or greater than two (2) acres in size. Each box shall not exceed seven (7) feet in height and twenty-five (25) square feet in ground area. The boxes shall be located on a parking lot or other paved surface, not adjacent to the front building facade. The boxes shall not: be within 15 feet of the front property line, reduce the width of paved clear space for the passage of pedestrians to less than five (5) feet, be located within twenty-five (25) feet of a Fire Department connection, utilize any required parking spaces or disrupt the flow of vehicular or pedestrian traffic. The box shall include language discouraging the placement of items outside of the box. The name and phone number of the box owner / operator shall be posted on the box. Upon telephone notification from the City of Plano Code Enforcement Department that materials are being placed outside of a box, the box owner/operator shall have 48 hours to remove said materials. Failure to do so on

three or more occasions in any calendar year may result in penalties listed herein.

8-14-3: License Required

It shall be unlawful for any person or business to place or allow to be placed on their property a collection bin without first making application and securing an annual license from the City.

8-14-4 LICENSE APPLICATION AND ISSUANCE

Application: An Applicant for a collection bin license shall file an application therefor with the City Clerk, on a form provided by the City, which application shall be forwarded to the Director of Building, Planning and Zoning for review. The Application shall include, without limitation, the following information:

A. The name, mailing address, telephone number and electronic mail address of the Applicant.

B. The name, mailing address, and telephone number of the owner of the property on which the collection bin will be installed or placed, if different.

C. The street address of the property on which the collection bin will be installed or placed.

D. A site plan or aerial depiction of the property on which the collection bin will be installed or placed, which site plan or aerial depiction shall indicate the location of the proposed collection bin with distances to the nearest lot lines.

E. Written authorization from the property owner or authorized management company consenting to the placement of a collection bin on the subject property.

F. Payment of an annual nonrefundable collection bin license application fee of \$25.00. The fee is per bin or up to 25 sq. ft. of ground area.

8-14-5: Approval or Denial of Application; Revocation

A. Approval: Upon receipt of a complete Application for a collection bin license, and upon a determination that the Application satisfies the standards and conditions set forth in the Chapter, the City Clerk or her

designee shall approve the application and issue a collection bin license to the Applicant. The Director of Building, Planning and Zoning may condition approval of the Application upon additional provisions or restrictions that are consistent with the provisions set forth in this Chapter.

B. Denial or revocation: The City, upon the recommendation of the Director of Building Zoning and Planning may revoke a collection bin license or deny an application for a collection bin license upon a determination that:

1. The Application contains any false, fraudulent or misleading material statement.
2. Either the Application or the proposed donation collection bin does not satisfy the standards and conditions set forth in this Chapter.
3. The Applicant has made false, fraudulent or misleading material statement in the course of operating a collection bin in the City.
4. The Applicant has previously violated any statute, ordinance, rule or regulation relating to the operation of a collection bin in the City.
5. Installation, placement or operation of the proposed collection bin will be injurious to the public health safety or welfare.

C. Notification of denial or revocation: Upon the revocation of an existing collection bin license or the denial of an application therefor, the City Clerk or her designee shall notify the Applicant by first class mail.

D. License term: Each license issued pursuant to this Chapter shall terminate on the 31st day of December following its issuance.

8-14-6: STANDARDS

A license shall not be issued for a collection bin unless it demonstrates compliance with the following standards:

- A. May only be placed on properties within the permitted zoning districts as stated in this Chapter.
- B. Shall not be located on vacant properties or where the collection bin is the principal structure on the lot.

- C. Shall not be placed within a required parking space.
- D. Shall not be placed within a required front yard or within 10 feet of a side or rear lot line.
- E. Shall not be located in a drive-aisle or located in such a manner as to cause a sight obstruction for motorist.
- F. Shall not reduce any sidewalk or paved space designed for the passage of pedestrians to less than 5 feet in width.
- G. No more than three collection bins shall be allowed on a zoning lot less than two (2) acres in size. No more than four collection bins shall allowed on a zoning lot equal to or greater than two (2) acres in size.
- H. No more than one collection bin operator is allowed on a zoning lot.
- I. Shall not exceed seven (7) feet in height and twenty-five (25) square feet in ground area.
- J. Shall be located on concrete or a paved surface.
- K. Shall contain the following contact information clearly visible from the front of the bin: the name, address, e-mail, and phone number of the owner/operator. The collection bin shall also include a legible notice prohibiting the placement of items outside the bin.
- L. Shall not contain any advertising, beyond the owner/operator of the bin.

8-14-7: MAINTENANCE

Collection bins shall be maintained in good condition with no structural damage, holes, or visible rust. All bins shall be free of debris and shall be serviced regularly so as to prevent overflow of donations or the accumulation of junk, debris or other material. Upon telephone notification from the Director of Planning, Building and Zoning Code Enforcement Division that materials are being placed outside the bin, the bin owner/operator shall have 48 hours to remove said materials. Failure to do so on three or more occasions in any calendar year will result in revocation of the license

8-14-8: Penalty.

In addition to any other remedy available to the City under this Chapter, any person violating any provision of this Chapter shall be subject to the general penalty and fine provisions of Chapter 4 of Title 1 of the Plano City Code. A separate offense shall be deemed committed on each day during or on which such violation occurs or continues.”

Section 2. This Ordinance shall, by authority of the City Council, be published in pamphlet form. From and after ten (10) days after said publication, this Ordinance shall be in full force and effect.

PASSED at a regular meeting of the City Council of the City of Plano on the ____ day of _____, 2016.

APPROVED by the Mayor of the City of Plano on the ____ day of _____, 2016.

Mayor

ATTEST:

City Clerk

Published in Pamphlet Form: _____