

WATER BOARD OF TRUSTEES
Regular Meeting
September 19, 2016
3:00 PM
Location: 1208 South St.

Agenda

1. Approve agenda.
2. Approve minutes of the August 15, 2016 regular meeting.
3. Approve invoices and financial statements.
4. Customer forum.
5. Discussion of wastewater operations.
 - A. Update on 28E agreement.
 - B. Consideration and discussion of pay increase for wastewater certification.
6. Consideration and discussion of fluoride addition to water supply.
7. Consideration and discussion of pay application #3 for DeLong Construction.
8. Consideration and discussion of updating OMWD Rules and Regulations.
9. General Manager's Update.
10. Miscellaneous.
11. Adjourn.

INFORMATION CONCERNING AGENDA ITEMS:

Agenda Item #4

Chair – Please read this statement to the audience.

“This is the item reserved to receive comments from the community, our customers, for concerns whether or not they are included in the current agenda. The community is encouraged to come and speak before the Water Board of Trustees and asked to keep statements brief. Any questions are to be asked of the Water Department staff and Board of Trustee members prior to speaking to the full Board of Trustees so concerns may be properly researched and answered away from the meeting. Comments are to be directed to the Board of Trustees only.”

There were a couple of calls received about fees for shutoff as well as a possible reduction for high usage. At this time, there have been no formal requests to address the Board.

Agenda Item #5

There have been some issues with the storm sewer below the old Community Stadium with recent rains. Earlier this summer the storm sewer backed up as the storms moved through with heavy rainfall and in order to relieve the pressure, the water came up through the ground leaving sinkholes. Staff worked to repair these areas as they have in the past. Typically when this has been done those areas do not need repair again. This summer has not been typical. There is an area of our piping that has several yards of concrete on it and it continues to backup and create sinkholes in the same area during the last few rainfall events that we have had. School staff have approached me asking us to repair it. The City Engineer is currently working with Garden & Associates staff to design a replacement project, but that is not helping us deal with the issues that keep happening every time it rains. School staff have been patient with us so far, but that patience is wearing thin as this continues to occur.

Iowa DNR staff were onsite at both plants to complete a sanitary survey. There were several items discussed and a report will be following that will have both requirements and recommendations.

The DNR has also reissued NPDES permits for both plants. There were items on the permits for reporting that did not line up to account for accurate flow recording at the plants. The City had also requested a modification to the timeline for several of the items that were included on the last report that would allow for a comprehensive facility plan to be completed by Fox Engineering. A Public Notice has been sent to the newspaper for publication and that same notice has also been posted at our office, City Hall, the Street Department, and out at the treatment plants.

One of the last remaining pieces to repair the digester arrived on Tuesday. The contractor needs to return and complete the repairs so we can return the digester to normal operation.

I will have the 28E spreadsheet updated and available at the meeting.

I will have the information as related to the step increases for sewer treatment licenses available at the meeting. What was discussed was a 5% increase for each grade obtained.

Agenda Item #6

I have researched the grant for Delta Dental and have attached the grant information to this agenda packet. We must commit to sending one split sample per month for five years to a state certified lab,

if we fail to comply with the grant provisions Delta Dental may act to reclaim the amount of the grant. An outcomes report will be due at the one year anniversary of the grant. Applications are accepted on an ongoing basis. We have received two letters in the last month from customers and another letter from an out of state organization opposed to fluoridation. In most regards the science used by those opposed to fluoridation looks at studies that have significantly higher levels than are even allowed to be fed to a system. There have been no studies that I have reviewed that discussed results that replicated negative impacts when the levels were fed at the current optimal dosage. As discussed at last month's meeting, there is no way to perform a trial run without actually feeding the chemical into the system to see the impact related to turbidity, be that a positive impact, negative impact, or a neutral impact. I am confident that we would be able to meet Delta Dental's requirements were we to resume feeding fluoride.

Agenda Item #7

DeLong Construction has submitted pay application #3 in the amount of \$95,054.63. This is with the 5% retainage withheld. This is for work completed by August 31, 2016. Garden has reviewed the submittals and forwarded to the Board for action. I recommend approving the pay application in the amount of \$95,054.63.

Agenda Item #8

Copies of the updated rules were sent to Board members the week of the of September. There has not been much feedback to date. Crystal and I will work to have values associated with some of these that had were blank in the draft. What I would hope to see is a discussion on these with guidance of what the Board wants to keep, drop, or modify and then I will send that to the attorney for a final draft with an action item on the October agenda for final approval. Please go back and review the email with the draft attached in order to help the process move along during the meeting. It is my hope that we won't need to belabor the meeting as a result of this topic. In discussing with our attorneys the Board's request for a resolution to allow staff the ability to enter into payment agreements with customers, it was suggested that as we move forward with updating the rules and regulations, it made more sense to include this particular provision in the rules and it would be approved as the rest of the rules were approved.

Agenda Item #9

We are finishing up with our lead and copper sampling. This is completed every three years as required by the EPA. A couple of months ago it was suggested that we look at setting up system wide sampling as a resource for our customers. I have recently attended some meetings where sampling for lead and copper has been discussed. I have some reservations based on those discussions about opening this up to the entire community. The work on Carbonado Road is nearing completion. I have reached out to Garden to check how many working days are left on the contract. The water main is all installed, there are only a couple of services left to hook up and then the two interconnections remain. I am also checking to see if it is part of the contract to remove the old fire hydrants. I believe that in past projects this has been included as part of the contractors obligations.

For the month of August there were around 100 customers that were on our shut-off list. This month that number climbed to 118 customers. Water and Wastewater staff worked together on the to go out and perform this task. We hope to see this number start to reduce in the coming months.

Last month there was a question regarding the number of payment arrangements that are given on a monthly basis. In working through this issue, there is not a function within our software that can track this for us. As the number can change on a daily basis it becomes problematic to sort this out. As an example, customer A calls in on the stating that they cannot pay the bill by 5:00, but will be in on the morning of the before staff go out to start shut-offs to pay the bill in full. OMWD office staff enter this as a payment agreement on the software. When customer A pays the next morning the agreement disappears. The numbers change on a daily basis. Staff have always worked judiciously to provide a good balance between collecting necessary funds and setting up any agreements to work with customers.

The City has started the process to engineer the replacement of South D Street from A Avenue to Avenue. We have a trunk line main that will need to be replaced with this project. How would you like to handle the engineering? The City went to an RFP/RFQ process to select the firm as there are DOT funds associated with this project. Would you like me to approach the firm the City selected to piggyback the water main replacement or do you want to go with another firm altogether?

Agenda Item #10

There were two leaks this last month.

North and J Avenue East; crack on a 4" main
1510 South F; hole in 6" main

 Preview

Apply

Smart Smiles 2016

Teaching children the importance of proper oral hygiene is needed to develop a lifetime of healthy smiles. Smart Smile in School is an oral health teaching kit designed to be an engaging and interactive curriculum for students from Kindergarten through 5th grade.

The kit includes:

- Land of Smiles DVD
- Classroom activities and lesson plans
- Take-home education materials and activity sheets
- A science experiment to demonstrate how cavities are formed

Smart Smile kits are available for health professionals and intended for outreach education on an ongoing basis in schools, child care centers and other child-focused community-based organizations. Applications will be accepted on a rolling basis throughout the year. **If approved, one (1) Smart Smiles kit will be provided at no cost.**

 Preview

Apply

Community Water Fluoridation Grant Program 2016

Community Water Fluoridation Grants: up to \$25,000

The Delta Dental of Iowa Foundation, in collaboration with the Iowa Department of Public Health, has established a Community Fluoridation Award to support continuation or assist in fluoridation of public water supplies in Iowa communities. Awards up to \$25,000 may be given annually to Iowa communities demonstrating the greatest need for fluoridation. Applications will be accepted on a first come, first served ongoing basis.

- Applicant communities must complete the application, indicating population served, amount of fluoride deficiency, and commitment to five-year sustainability of fluoridation program.
- Community must demonstrate in the application process a good faith effort to use the award for community water fluoridation and any other requirements from the Iowa DNR regarding your construction permit.
- Priority will be given to communities with the highest level of deficiency and serving the highest number of children.
- Community award winners will be notified by Delta Dental of Iowa Foundation and an outcomes report will be required after one year of the grant period.
- Community award winners will commit to submit at least one split sample per month to any State of Iowa (DNR) Certified Lab during the five-year period of the grant. If a community fails to comply with the grant provisions during the five-year period, Delta Dental of Iowa Foundation may act to reclaim the amount of the grant.
- A public water supply construction permit must be obtained from the Iowa DNR prior to the construction or modification of any source, treatment, storage, or distribution system of a public water supply system. To obtain a construction permit, the following must be submitted to the Iowa DNR Water Supply Engineering Section: the project's plans and specifications, the applicable construction permit application schedules, and the appropriate permit fee. The public water supply construction permit must be obtained prior to application; however the cost of the permit can be included in the proposed budget. The necessary forms are available here.

 Preview

Apply

Graduate Student Thesis Award Program 2016

Delta Dental of Iowa Foundation invites graduate students at the University of Iowa College of Dentistry and Dental Clinics to submit proposals for the Graduate Student Thesis Award Program. This program is intended to encourage thesis research that is of direct relevance to the costs, utilization or outcomes of dental care.

The Graduate Student Thesis Award offers up to \$15,000 to cover the associated costs with conducting master's or doctorate thesis research. These funds can cover materials, supplies and rental of necessary equipment. Salaries, wages, indirect costs and the purchase of equipment will not be covered. Partial funding may be approved, dependent on reasonableness of the budget and availability of funds. A copy of the final thesis must be provided to


requests

Applicant Dashboard
Apply

tools

Fax to File

Application

 Question List

Apply / Community Water Fluoridation Grant Program 2016 / Application / Preview

 Fields with an asterisk (*) are required.

▼

Project Name*

Project Description*

✓ 2,000 characters left of 2,000

Amount Requested*

\$

Geographic Area*

Counties Served

Additional Counties Served - A

Additional Counties Served - B

Additional Counties Served - C

Additional Counties Served - D

Additional Counties Served - E

Individuals Impacted*

Estimate how many individuals will impacted by this project. (directly and indirectly)

#

Individuals Served*

Enter the number of individuals receiving oral health supplies/educational materials.

#

[> Project Narrative](#)


requests

Applicant Dashboard
Apply


tools

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Application

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Apply / Community Water Fluoridation Grant Program 2016 / Application / Preview

 Fields with an asterisk (*) are required.



▼ Project Narrative

Population served by water system:*

Please list total number and percentage of children

✓ 250 characters left of 250

Briefly describe your current water system*

Include sources, treatment process, facilities, etc.

✓ 1,000 characters left of 1,000

Describe why the fluoridation award is needed in your community.*

✓ 1,000 characters left of 1,000

Briefly describe your community's five-year commitment to fluoridation.*

Please address sustainability.

✓ 1,000 characters left of 1,000

Project Budget*

Download, complete and upload the Budget Worksheet below.

[2 MiB allowed]

The following documents are required.*

1.) Letter of support from Mayor, City Council or other local government representative.

[2 MiB allowed]

2.) Most recent water sample analysis. *

[2 MiB allowed]

3.) Approved DNR Permit*

[2 MiB allowed]

Project Budget

Project Budget		
Delta Dental of Iowa Foundation	Insert Agency Name Here	
Expenses (Please provide a detailed budget narrative in Tab 2.)	Total Project Expenses	Amount Requested from Funder
Salary and Benefits	\$ -	\$ -
Contract Services (consulting, professional, fundraising)	\$ -	\$ -
Occupancy (rent, utilities, maintenance)	\$ -	\$ -
Training & Professional Development	\$ -	\$ -
Insurance	\$ -	\$ -
Travel	\$ -	\$ -
Equipment	\$ -	\$ -
Supplies	\$ -	\$ -
Printing, Copying & Postage	\$ -	\$ -
Evaluation	\$ -	\$ -
Marketing	\$ -	\$ -
Conferences, meetings, etc.	\$ -	\$ -
Administration	\$ -	\$ -
Other - _____	\$ -	\$ -
Other - _____	\$ -	\$ -
TOTAL EXPENSES	\$ -	\$ -
Revenues	Committed	Pending
Contributions, Gifts, Grants, & Earned Revenue		
Local Government	\$ -	\$ -
State Government	\$ -	\$ -
Federal Government	\$ -	\$ -
Individuals	\$ -	\$ -
*Foundation - _____	\$ -	\$ -
*Foundation - _____	\$ -	\$ -
*Foundation - _____	\$ -	\$ -
*Foundation - _____	\$ -	\$ -
*Corporation- _____	\$ -	\$ -
*Corporation- _____	\$ -	\$ -
*Corporation- _____	\$ -	\$ -
*Federation- _____	\$ -	\$ -
*Other - _____	\$ -	\$ -
Membership Income	\$ -	\$ -
Program Service Fees	\$ -	\$ -
Products	\$ -	\$ -
Fundraising Events (net)	\$ -	\$ -
Investment Income	\$ -	\$ -
In-Kind Support	\$ -	\$ -
*Other - _____	\$ -	\$ -
TOTAL REVENUES	\$ -	\$ -

Chad Coon

From: noreply@civicplus.com
Sent: Friday, September 16, 2016 10:30 AM
To: Chad Coon
Subject: Online Form Submittal: Contact me - Chad Coon

If you are having problems viewing this HTML email, click to view a [Text version](#).

Contact me - Chad Coon

From (Name):* Ed Kinkade
Reply to (Email address):* edkinkade@centuryhomes.net
Subject:* fluoride
Attachment: []

Convert to PDF? []
(GIF, JPG, JPEG, PNG, DOC, DOCX, XLS, XLSX, TXT)
Type email here:* Oskaloosa Water Department City of Oskaloosa Oskaloosa Citizens I am strongly opposed to adding fluoride to Oskaloosa's drinking water. There are far more health risks associated with ingesting fluoride than benefits, including cancer and Alzheimer's. I did not include research but it is readily available. The World Health Organization data shows that tooth decay in fluoridated and non-fluoridated water systems has decreased since 1970, in equal amounts. Most of Europe does not fluoridate, even prohibited in some places, and in the US studies show no difference in tooth decay. (There are studies that show otherwise, look to see who they represent). With fluoride treatments and fluoride toothpaste, I don't see need to add to the water. No other so-called "health benefits" are added to water; forced upon the population. We have great water here. There is no significant benefit to adding fluoride, please do not add fluoride to our water. Ed Kinkade 707 Sarver Avenue Oskaloosa Iowa

* indicates required fields.

View any uploaded files by [signing in](#) and then proceeding to the link below:
<http://www.oskaloosaiowa.org/Admin/FormHistory.aspx?SID=2269>

The following form was submitted via your website: Contact me - Chad Coon

From (Name):: Ed Kinkade

Reply to (Email address):: edkinkade@centuryhomes.net

Subject:: fluoride

Attachment:: No file was uploaded

Type email here::

Oskaloosa Water Department
City of Oskaloosa
Oskaloosa Citizens

I am strongly opposed to adding fluoride to Oskaloosa's drinking water.

There are far more health risks associated with ingesting fluoride than benefits, including cancer and Alzheimer's. I did not include research but it is readily available.

The World Health Organization data shows that tooth decay in fluoridated and non-fluoridated water systems has decreased since 1970, in equal amounts. Most of Europe does not fluoridate, even prohibited in some places, and in the US studies show no difference in tooth decay. (There are studies that show otherwise, look to see who they represent).

With fluoride treatments and fluoride toothpaste, I don't see need to add to the water. No other so-called "health benefits" are added to water; forced upon the population.

We have great water here. There is no significant benefit to adding fluoride, please do not add fluoride to our water.

Ed Kinkade
707 Sarver Avenue
Oskaloosa Iowa

Additional Information:

Form submitted on: 9/16/2016 10:30:28 AM

Submitted from IP Address: 207.199.229.83

Referrer Page: <http://www.oskaloosaiowa.org/index.aspx?NID=169>

Form Address: <http://www.oskaloosaiowa.org/Forms.aspx?FID=139>

Chad Coon

From: Antoinette and Kerwin Van Wyk <healthy@mahaska.org>
Sent: Saturday, August 27, 2016 2:00 PM
To: Chad Coon
Subject: fluoride - Search Results

Hi Chad -

Will you please scan through at least some of these sites and present "concerns".

Thank you -

ANtoinette Van Wyk

<http://search.mercola.com/results.aspx?q=fluoride>

Chad Coon

From: NYSCOF@aol.com
Sent: Tuesday, August 23, 2016 3:01 PM
To: jason.madison@criwmpennu.org; Chad Coon
Subject: Dentists Unsure of Fluoride's Risks, FOIAs Reveal

Fluoridation Safety Uncertainty Persists Despite Claims to the Contrary

August 20, 2016 -- New York -- Organized Dentistry, the CDC and others publicly pronounces fluoridation as safe; but privately they aren't so sure, reveals freedom of information (FOIA) documents.

A CDC freedom-of-information request uncovered a document from the American Dental Association (ADA) (1), an ardent fluoridation protector and promoter, asking for fluoride safety studies to include the following:

1. "Determine if and how fluoride metabolism – including fluoride bioavailability, intake and excretion – is influenced by environment, altitude, temperature, genetics, age, sex, race, nutritional status, pharmacological agents, physiological status and culture.
2. Seek to determine the health effects of optimally fluoridated water (0.7 mg/L) for individuals with kidney disease and/or diabetes (Type I and II) and if such an effect varies by age, sex or race.
3. Reports have shown that minority populations have a higher incidence of dental fluorosis. NIDCR [National Institute of Dental Research] should initiate studies that look at total fluoride intake from all sources and the occurrence of dental fluorosis (fluoride-discolored teeth) in all minority populations."

The FDA has never approved fluoride ingestion - in supplements or in water. See:
<http://fluoridealert.org/articles/fda-fluoride-supplements-petition/>

The ADA is often the go-to union which legislators and the media consider experts. Most professional unions based their endorsements on their trust of the ADA. This document appears at odds with years of public statements by dental groups assuring the public that fluoridation safety has been extensively researched.

CDC's Oral Health Division shows similar doubt as the ADA. Previous emails released through FOIA requests (2) reveal that at least two members of the US Center for Disease Control's Oral Health Division have worries about fluoride's risks to kidney patients.

CDC says, "The safety and effectiveness of fluoride at levels used in community water fluoridation has been thoroughly documented..."(3)

But, William Maas, (former CDC Oral Health Division Director) admits "There is a lot of uncertainty," regarding fluoride's effects to kidney patients in a May 2011 email to ADA Director of Congressional Affairs, Judith Sherman, a registered ADA lobbyist (4).

Cc'd is William Bailey, then acting Director of CDC's Oral Health Division, who responds: "End stage renal disease may be another issue. Since the body excretes fluoride through the kidneys, it is reasonable to assume that people with end stage [renal] disease may experience a buildup of fluoride."

Even the ADA admits in its Fluoridation Facts Booklet, that "decreased fluoride removal may occur among persons with severely impaired kidney function who may not be on kidney dialysis."

Civil rights icon Andrew Young spoke out against fluoridation in 2011, noting that "the story about fluorides keeps changing." (5)

The new documents also show that Andrew Young's and Dr. Gerald Durley's statements opposing fluoridation generated a whirlwind of meetings and correspondence in dental and government circles.(6)

One email exchange reveals that the ADA was concerned that Young's and Durley's statements about fluoridation harm to minorities had "the potential to gain traction."

Other nationally known figures subsequently waded in, such as environmental activist Erin Brockovich who called for Fluoridegate scandal investigations.

Best-selling author and nationally known physician Dr. Mark Hyman issued this statement: "I support federal investigative hearings looking into why our cities and towns are allowed to continue to add fluoride to public water sources and why the whole story about fluorides is only just now coming out." (7)

The ADA's recommendations were included in a July 21, 2011 email from Nadine Gracia in the Office of the U.S. Secretary of Health.

Over 4600 professionals signed a statement opposing fluoridation, including hundreds of dentists. It's here: <http://fluoridealert.org/researchers/professionals-statement/text/>

Dentist Bill Osmunson explains why he's now opposed to fluoridation in this video: <https://www.youtube.com/watch?v=Ys9q1cvKGk> (Bill@teachingsmiles.com)

Further, Fluoride's adverse health effects are not the purview of dentists, according to the California Board of Dental Examiners http://www.nofluoride.com/cal_dental_examiners.cfm

Fluoride's Adverse Health Effects are here: <http://www.FluorideAction.Net/issues/health>

[Debunking the Fluoridationists](#)

References:

1) CDC freedom of Information documents. See second page for ADA research recommendation 236932a4e7803225f908f5e3fee5d29-AccessKeyId=A4D71DDB38C1C74A9260&disposition=0&alloworigin=1 (

2) <http://www.nidellaw.com/fluoride-foia-revealing/>

3) CDC statement to Dr. Oz show <http://www.doctoroz.com/page/statement-cdc-water-fluoridation>

4) American Dental Association lobbying report: <http://soprweb.senate.gov/index.cfm?event=getFilingDetails&filingID=CCE68774-B44B-49E0-A272-80613A717A2D&filingTypeID=51>

5) Andrew Young statement: http://www.fluoridealert.org/wp-content/uploads/young_2011.pdf

6) ADA letter about fluoridation harm to minorities having the potential to gain traction (scroll down for clearer second document): <http://www.nidellaw.com/ada-and-hhs-working-together-to-downplay-fluorides-disproportionate-harm-to-minorities/>

7) Dr. Mark Hyman statement on fluoridation: http://fluoridealert.org/news/mark_hyman_fluoride

[New York State Coalition Opposed to Fluoridation, Inc. \(NYSCOF\) PO Box 263, Old Bethpage, New York, 11804 President Paul S. Beeber, JD](#)

[Fluoride Action Network](#)

[NYSCOF News Releases](#)

[Fluoride Dangers](#)

[NYSCOF on Twitter](#)

[NYSCOF on Facebook](#)

APPLICATION FOR PAYMENT NO. 3

To: Oskaloosa Municipal Water Department (JURISDICTION)
From: DeLong Construction, Inc. (CONTRACTOR)
Contract: Carbonado Road Water Main Replacement - OMWD - Oskaloosa, Iowa - 2016
Project: Carbonado Road Water Main Replacement - OMWD - Oskaloosa, Iowa - 2016
JURISDICTION's Contract No.: ENGINEER's Project No.: 4015097
For Work Accomplished Through the Date of: Sept. 9, 2016

Table with 2 columns: Description and Amount. Rows include: 1. Original Contract Price: \$ 401,305.00; 2. Net Change by Change Orders and Written Amendments (+ or -): \$ 1,000.00; 3. Current Contract Price (1 plus 2): \$ 402,305.00; 4. Total Completed and Stored to Date: \$ 313,900.70; 5. Retainage (Per Agreement): 5% of Completed Work: \$ 15,695.04; 0% of Stored Material: Total Retainage: \$ 15,695.04; 6. Total Completed and Stored to Date Less Retainage (4 minus 5): \$ 298,205.67; 7. Less Previous Application for Payments: \$ 203,151.04; 8. DUE THIS APPLICATION (6 MINUS 7): \$ 95,054.63

Accompanying Documentation:

CONTRACTOR'S Certification:

The undersigned CONTRACTOR certifies that (1) all previous progress payments received from JURISDICTION on account of Work done under the Contract referred to above have been applied on account to discharge CONTRACTOR's legitimate obligations incurred in connection with Work covered by prior Applications for Payment numbered -- through -- inclusive; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application of Payment will pass to JURISDICTION at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to JURISDICTION indemnifying JURISDICTION against any such Lien, security interest or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective.

Payment of the above AMOUNT DUE THIS APPLICATION is requested.

Dated: 9-12-16 DeLong Construction, Inc. (CONTRACTOR) By: [Signature]

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

Dated: 9-12-2016 Garden & Associates, LTD. (ENGINEER) By: [Signature]

Payment of the above AMOUNT DUE THIS APPLICATION is approved.

Dated: Oskaloosa Municipal Water Department (JURISDICTION) By: _____

Attachment to Pay Application No. 3
 Carbonado Road Water Main Replacement
 Oskaloosa Municipal Water Department
 Oskaloosa, Iowa - 2016

G&A 4015097

No.	Item	Unit	Estimated Quantity	Unit Price	Extended Price	Quantity to Date	Payment Price
Base Bid							
1	Mobilization	LS	1	\$10,000.00	\$10,000.00	0.67	\$6,667.00
2	Clearing and Grubbing	LS	1	\$3,700.00	\$3,700.00	1.00	\$3,700.00
3	Trench Foundation	TON	50	\$25.00	\$1,250.00		
4	Trench Compaction Testing - Water Main	LS	1	\$6,160.00	\$6,160.00	0.75	\$4,620.00
5	Sanitary Sewer Service, 4" PVC C900, DR18	LF	20	\$75.00	\$1,500.00		
6	Water Main Trenched, PVC, 4"	LF	4	\$200.00	\$800.00		
7	Water Main Trenched, PVC, 8"	LF	5,335	\$25.00	\$138,375.00	5,279.50	\$131,987.50
8	Water Main Trenchless, PVC, 8"	LF	365	\$40.00	\$14,600.00	329.00	\$13,160.00
9	Steel Casing, 16"	LF	80	\$190.00	\$15,200.00	80.00	\$15,200.00
10	Water Service Stub, Copper, 1"	EA	29	\$1,500.00	\$43,500.00	11.00	\$16,500.00
11	Water Service Stub, Copper, 1", Auger or Bored	EA	26	\$2,700.00	\$70,200.00	23.00	\$62,100.00
12	Gate Valve, 8", Install Only	EA	17	\$600.00	\$10,200.00	18.00	\$10,800.00
13	Tapping Valve Assembly, 8" x 8"	EA	1	\$3,000.00	\$3,000.00	1.00	\$3,000.00
14	Fire Hydrant Assembly, Install Only	EA	8	\$1,600.00	\$12,800.00	8.00	\$12,800.00
15	Existing Fire Hydrant Removal	EA	5	\$400.00	\$2,000.00		
16	Water Main Connection - Connection No. 1	LS	1	\$2,000.00	\$2,000.00		
17	Water Main Connection - Connection No. 2	LS	1	\$2,500.00	\$2,500.00	1.00	\$750.00
18	Water Main Connection - Connection No. 3	LS	1	\$750.00	\$750.00		
19	Water Service Meter Pit, Install Only	EA	5	\$500.00	\$2,500.00	9.00	\$4,500.00
20	Removal of Sidewalk	SY	1	\$200.00	\$200.00	295.10	\$0.00
21	Removal of Driveway	SY	314	\$12.00	\$3,768.00		
22	Sidewalk, PCC, 4" Thick	SY	1	\$200.00	\$200.00		\$0.00
23	Driveway, Paved PCC, 6" Thick	SY	282	\$50.00	\$14,100.00	221.00	\$11,050.00
24	Driveway, Paved HMA, 6" Thick	SY	37	\$81.00	\$2,997.00	37.00	\$2,997.00
25	Driveway, Granular, 6" Thick	TON	110	\$24.00	\$2,640.00	67.00	\$1,608.00
26	Full Depth Patch, HMA	SY	170	\$83.00	\$14,110.00		\$0.00
27	Subbase Overexcavation	TON	45	\$35.00	\$1,575.00		\$0.00
28	Pavement Removal	SY	170	\$6.00	\$1,020.00	140.00	\$840.00
29	Conventional Seeding, Fertilizing, and Mulching	LS	1	\$8,500.00	\$8,500.00		\$0.00
30	SWPPP Preparation	LS	1	\$1,300.00	\$1,300.00	0.50	\$650.00
31	SWPPP Management	LS	1	\$3,500.00	\$3,500.00	0.50	\$1,750.00
32	SWPPP Qualifying Rainfall Event Inspection	EA	6	\$60.00	\$360.00	3.00	\$180.00
33	Removal and Reinstallation of Existing Fence, Field Fence	LF	40	\$25.00	\$1,000.00	20.00	\$500.00
34	Traffic Control	LS	1	\$5,000.00	\$5,000.00	0.80	\$4,000.00
	Change Order No.1	LS	1	\$1,000.00	\$1,000.00	1.00	\$1,000.00
TOTAL BASE BID					\$402,305.00		\$313,900.70