

Committee-of-the-Whole Agenda

6:30 p.m.

Tuesday, September 10, 2013

Mayor's Board Appointments

Mayor's appointment of Matt Sivertson to the Moline Centre Main Street Commission to fill the unexpired term of Jim O'Hern to expire June 30, 2014.

Proclamation

A Proclamation from the Moline Public Library to declare September, 2013 as "Library Card Sign Up Month"

Questions on the Agenda

Agenda Items

1. **Declaration of surplus property.** (Chris Mathias, Property Management Coordinator)
2. **A Licensing Agreement to Install Fiber-Optic Cable.** (Chris Mathias, Property Management Coordinator)
3. **Request to Vacate Alley Right-of-Way.** (Chris Mathias, Property Management Coordinator)
4. **Approval of a Proposal for Chiller Pipe Insulation Removal and Rewrap at Central Fire Station.** (Doug House, Municipal Services General Manager)
5. **Accepting the actuarial valuation reports for Police and Firefighters' Pension Funds.** (Kathy Carr, Finance Director)
6. **Approval of the Purchase of Pumps for the 64th Street Sanitary Sewer Pump Station** (Scott Hinton, City Engineer)
7. **Approval of the 2014 – 2018 Capital Improvement Program** (Scott Hinton, City Engineer)
8. **Other**

Informational

Joint Review Board Meeting Reports on the Tax Increment Financing Development Plans and Projects for the Proposed Riverbend Commons and Quad City Station Redevelopment Project Areas. (Ray Forsythe, Director of Planning & Development)

Explanation

1. Declaration of surplus property and authorizing City staff to do all things necessary to dispose of said surplus property. (Chris Mathias, Property Management Coordinator)

Explanation: Staff has identified these addresses as surplus properties which should be put back on the tax rolls by the method most advantageous to the City, whether by Request for Proposals or otherwise. 2113 6th Avenue is a small, vacant, flat lot which does not meet minimum lot size dimensions. 2114 8th Avenue is a vacant, overgrown, and on the side of the bluff. Additional documentation attached.

Staff Recommendation: Approval
Fiscal Impact: Decreased property maintenance costs; Increased property tax revenues
Public Notice/Recording: N/A
Goals Impacted: Financially Strong City

2. Request from Centurylink, Inc. for a Licensing Agreement to Install Fiber-Optic Cable at Three Locations in City Right-of-Way. (Chris Mathias, Property Management Coordinator)

Explanation: Centurylink, Inc. wishes to install fiber-optic facilities in City Right-of-Way at three different locations. The first location would run from 19th Street to 1515 5th Avenue, the second location runs from 2350 41st Street and crosses under 41st Street to the west to serve King Plaza, and the third location runs from 400 19th Street to 1701 River Drive. Additional documentation attached.

Staff Recommendation: Approval
Fiscal Impact: \$560 application fee and \$30 annual fee to the City
Public Notice/Recording: N/A
Goals Impacted: Improved City Infrastructure and Facilities

3. Request from Salem Lutheran Church to Vacate Alley Right-of-Way. (Chris Mathias, Property Management Coordinator)

Explanation: Salem Lutheran Church wishes to vacate the alley right-of-way that runs between its building and parking lot at 1724 15th Street. There is a City water line in the alley that would need to be moved before the vacation. The Church has contacted City Public Works staff to resolve the water line issue. City staff does not believe that this alley right-of-way is needed for access as it only serves the Church. The attached plat shows the exact area proposed for vacation. Per City policy, the applicant is required to pay the fair market value for the property to be acquired by right-of-way vacation. When looking at the averages of assessed values of land nearby, the fair market value appears to be \$3.05/SF or \$7,320 for the 2400 square foot alley. Additional documentation attached.

Staff Recommendation: Approval
Fiscal Impact: \$660 application fee to the City
Public Notice/Recording: N/A
Goals Impacted: Improved City Infrastructure and Facilities

4. Approval of a Proposal from Willman Construction, Inc. for Chiller Pipe Insulation Removal and Rewrap at Central Fire Station. (Doug House, Municipal Services General Manager)

Explanation: Municipal Services Staff has investigated dripping water at Central Fire Station and found that the wrapping and insulation around the chiller pipes has deteriorated over the last 40 years to a point that it has affected the work environment and efficiency of the building cooling system. When air comes in contact with the cold chiller pipes it condensates on the pipes causing them to drip throughout the building, primarily over the Finance Department. The dripping water has caused ceiling tiles to get soft and fail and mold has formed in the ceiling. Staff has moved work stations to protect

their computers and work product. Staff received three proposals to remove and replace approximately 3,000 feet of chiller pipe insulation and wrapping with the following results:

\$123,270.00	Willman Construction, Inc.
\$140,792.00	Iowa-Illinois Taylor Insulation
\$155,770.00	Environmental Management Services of Iowa, Inc.

Staff Recommendation: Approval

Fiscal Impact: Funds are not budgeted for this project, however, approximately \$50,000.00 is available in Buildings and Grounds, Building Improvements, 010-0841-432.08-05, and the remainder is available from contingency funds.

Public Notice/Recording: NA

Goals Impacted: Financially Strong City

5. Accepting the actuarial valuation reports submitted by Arthur Tepfer, Actuary, for the year beginning January 1, 2013 and ending December 31, 2013 for the City of Moline Police and Firefighters' Pension Funds. (Kathy Carr, Finance Director)

Explanation: The sworn Police and Fire personnel of the City of Moline are covered by two pension plans that are defined-benefit, single-employer pension plans. The purpose of the annual actuarial valuation reports is to provide property tax levy requirements for the City's employer contributions. Since 1988, the City has not used the actuarial calculations provided by the State of Illinois Department of Insurance but rather has hired an actuary to use Moline's specific financial information and related actuarial information for the calculation. The City's recommended tax levy for police and fire pension will be an increase of \$350,710. This amount will be levied for 2014 as part of the total property tax levy considered in November. Additional documentation attached.

Staff Recommendation: Approval

Fiscal Impact: Determines 2013 Property Tax Levy Collectible 2014.

Public Notice/Recording: Finance Staff will file with Illinois Department of Insurance, Public Pension Division

Goals Impacted: Financially Strong City

6. Approval of a Sole Source Purchase of Two Flygt Pumps from Electric Pump for the 64th Street Sanitary Sewer Pump Station (Scott Hinton, City Engineer)

Explanation: The 64th Street sanitary sewer pump station will operate on two submersible, centrifugal electric pumps. Long ago, the City of Moline standardized to Flygt brand pumps in all sanitary and storm sewer pump stations in an effort to increase operational efficiencies. Staff recommends continuing this past practice by purchasing Flygt pumps for the new pump station from Electric Pump in Des Moines, Iowa. Electric Pump proposes to supply two Flygt pumps, control panel, and other associated equipment for the lump sum price of \$47,567.00

Staff Recommendation: Approval

Fiscal Impact: Sufficient funds are available in the Case Creek Trails Bond issue.

Public Notice/Recording: NA

Goals Impacted: Strong Local Economy & Improved City Infrastructure & Facilities

7. Approval of the 2014 – 2018 Capital Improvement Program (Scott Hinton, City Engineer)

Explanation: A five-year Capital Improvement Program (CIP) has been formulated for the Committee's review. Proposed expenditures for FY 2014 total \$12,525,000 with expenditures for the entire five year plan totaling \$61,855,120. The 2014 CIP continues the past practice of funding three Engineering Technician positions and the annual Pavement Patching, Pavement Marking, and Sidewalk 75/25 Programs. Unlike previous years, there is little actual street and associated public utility work proposed. The majority of available Water, Water Pollution Control, Stormwater, and Motor Fuel Tax funding is allocated to the City's portion of IDOT projects related to widening John Deere Road,

replacing the I-74 Bridge, and establishing AMTRAK service in Moline. Further, most Utility Tax funds go to towards correcting long deferred maintenance on the Riverside Cemetery retaining wall, the Sylvan Island Bridge, and the Deere House retaining wall.

Staff Recommendation: Staff recommends approval of the 2014 – 2018 Capital Improvement Program with the understanding that the years of 2015 – 2017 provide a general framework for future projects that may change as funding levels, priorities, and needs change.

Fiscal Impact: FY 2014: \$12,525,000 FY 2015 – 2018: \$48,330,120

Public Notice/Recording: NA

Goals Impacted: Financially Strong City
Strong Local Economy
Improved City Infrastructure &Facilities
A Great Place to Live

Exhibit "A"

1. 2114 8th Avenue (Parcel 08449)



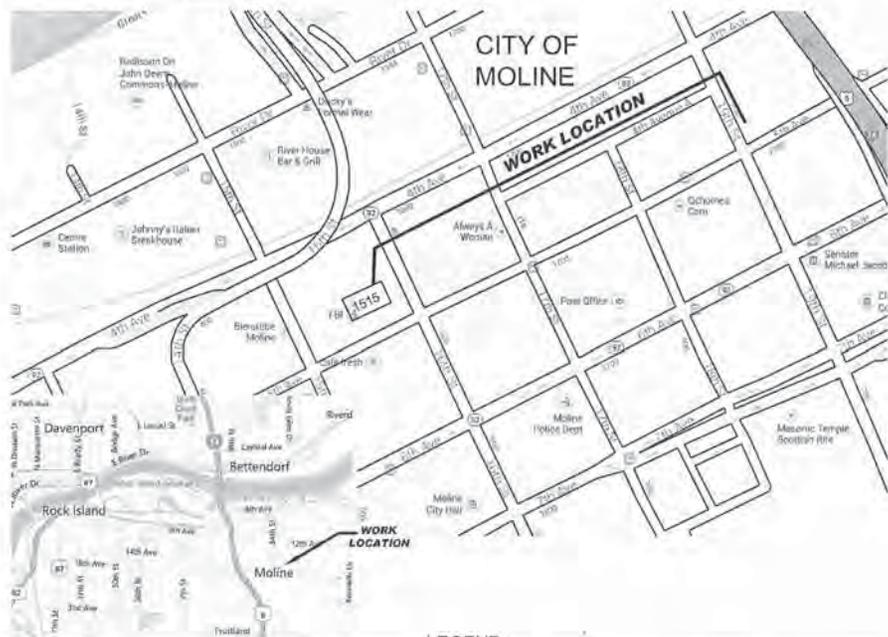
2. 2113 6th Avenue (Parcel 082844)



JOB DESCRIPTION: FIELD NOTES

THIS PROJECT WILL PLACE APPROXIMATELY 1700' OF FUTUREPATH WITH 24 MICROFIBER FROM AN EXISTING HANDHOLE ON 19TH ST TO 1515 5TH AVE (HERITAGE BUILDING).

PRIORITY 28 VICINITY MAP LOCATION:



LEGEND

✕ POWER POLE	□ HOUSE	— COMPANY ANCHOR	☼ TREE	⊙ FIRE HYDRANT
▭ BORE	∩ CULVERT	— REPEATER	□ STAKE/MILE MARKER	BRIDGE
□ PROPOSED HANDHOLE	← ANCHOR	⊙ STREET LIGHT	⊙ PROPOSED CABLE LOOP	— LOAD COIL
□ EXISTING HANDHOLE	⊙ GAS METER	← WARNING SIGN	○ TEL POLE	⊙ WATER VALVE
⊙ EXISTING PEDESTAL	⊙ BURIED PWR TFMR	⊙ SIGNS	⊙ SEWER MH	~ TREES/BRUSH

DESIGNED SERVICES INFO BOX

CST COMPLETE: ORDER TYPES:
 INV COMPLETE: HICAP
 ORDER NUMBER(S): ISDN
 56KB
 DESIGN LOW

CUST NAME: N/A
 CUST ADDR: N/A
 CUST TEA: N/A
 CKID: N/A
 F1: N/A
 F2: N/A
 XBOX: N/A

RZ: 13 CZ: 9 T: 18N R: 1W S: 32

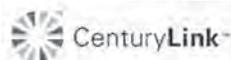
SPECIAL ROUTING INSTRUCTIONS: **YES/NO**
 POLES
 NEW DEVELOPMENT CENTER
 OTHER

SPECIAL REMARKS:
 SEE OSP-FM FOR UNITS / SPLICING DETAILS
 IA ONE CALL: 800-292-8989

PERMITS

YES/NO
 DESIGNED SERVICES:
 HELD ORDERS:
 ROW REQUIRED:
 CITY:
 COUNTY:
 STATE:
 LOOP QUAL:
 PREMIS FORM:
 CONFORMANCE TEST:

ERFS DATE:
 TRENCH OPEN DATE:
 APPROVED MNEMONICS:
 ASSOCIATED PROJECTS:



All Underground Utility Locations Shown Herein Are Approximate. Construction Contractor is Responsible For The Location Of Municipal And Private Utilities And To Notify Iowa One Call At 811 Or (800) 292-8989 A Minimum Of Forty Eight (48) Hours Prior To Excavation. Fax-A-Location is Available At (800) 239-6015. Email-A-Location is Available At www.iowaonecall.com

KCC Engineer:
 B BURKETT
 KCC Drafter:
 P PRICE

Title:
 PL 1515 5TH AVE (HERITAGE BLDG)

FIREWORKS PROJECT: 495411A
 PROJECT: 495411
 BVAPP:
 WC ID: DVNPIA
 WC NAME: DAVENPORT
 EXCH KEY:
 RMT SWITCH KEY:
 ISSUE:
 SHEET: 1 OF 7

DESIGN ENG.: RICHARD MARKICH
 TELEPHONE: 303-707-6306
 CELL:
 FIELD ENG.: BRENT BURKETT
 TELEPHONE: 800-301-6672
 CONTR ENGR.:
 CONTR COMP.: KILLION COMM. 800-301-6672
 COUNTY: ROCK ISLAND

JOB DESCRIPTION: FIELD NOTES

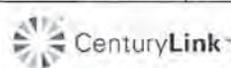
THIS PROJECT WILL PLACE 556' OF FUTUREPATH AND 24 MICROFIBER FROM HH-41ST-5 TO 3800 AVENUE OF THE CITIES (CROWN CENTER) IN THE DAVENPORT WIRE CENTER.

PRIORITY 28 VICINITY MAP LOCATION:



LEGEND

✕ POWER POLE	□ HOUSE	—▲ COMPANY ANCHOR	☼ TREE	⊙ FIRE HYDRANT
▭ BORE	—/— CULVERT	—X REPEATER	□ STAKE/ MILE MARKER	—/— BRIDGE
▭ PROPOSED HANDHOLE	← ANCHOR	⊙ STREET LIGHT	⊙ PROPOSED CABLE LOOP	—/— LOAD COIL
▭ EXISTING HANDHOLE	⊙ GAS METER	← WARNING SIGN	○ TEL POLE	⊙ WATER VALVE
⊙ EXISTING PEDESTAL	⊙ BURIED PWR TFMR	⊙ ⚡ ⚡ SIGNS	⊙ SEWER MH	—/— TREES/BRUSH



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KCC Engineer:
B BURKETT
KCC Drafter:
P PRICE

DESIGNED SERVICES INFO BOX

CST COMPLETE: ORDER TYPES:
 INV COMPLETE: HICAP
 ORDER NUMBER(S): ISDN
 56KB
 DESIGN LOW

CUST NAME: N/A
 CUST ADDR: N/A
 CUST TEA: N/A
 CKID: N/A
 F1: N/A
 F2: N/A
 XBOX: N/A

RZ: 13	CZ: 9	T: 17N	R: 1W	S: 3
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SPECIAL ROUTING INSTRUCTIONS:

POLES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
NEW DEVELOPMENT CENTER	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

SPECIAL REMARKS:
 SEE OSP-FM FOR UNITS / SPLICING DETAILS
 IA ONE CALL: 800-292-8989

PERMITS

DESIGNED SERVICES:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
HELD ORDERS:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ROW REQUIRED:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
CITY:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
COUNTY:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
STATE:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
LOOP QUAL.:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
PREMIS FORM:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
CONFORMANCE TEST:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

ERFS DATE:
 TRENCH OPEN DATE:
 APPROVED MNEMONICS:
 ASSOCIATED PROJECTS:

DESIGN ENG.: RICHARD MARKICH
 TELEPHONE: 303-707-6306
 CELL:
 FIELD ENG.: BRENT BURKETT
 TELEPHONE: 800-301-6672
 CONTR ENGR.:
 CONTR COMP.: KILLION COMM. 800-301-6672
 COUNTY: ROCK ISLAND

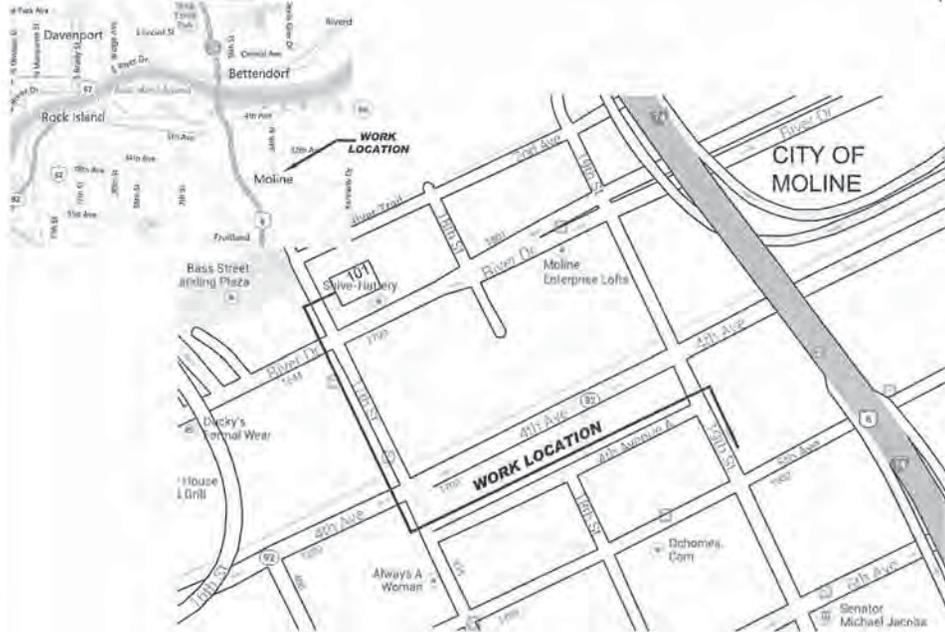
FIREWORKS PROJECT: 4954118
 PROJECT: 495411
 BVAPP:
 WC ID: DVNPIA
 WC NAME: DAVENPORT
 EXCH KEY:
 RMT SWITCH KEY:
 ISSUE:
 SHEET: 1 OF 6

Title:
 PL 3800 AVENUE OF THE CITIES (CROWN CENTER)

JOB DESCRIPTION: FIELD NOTES

THIS PROJECT WILL PLACE APPROXIMATELY 2200' OF FUTUREPATH AND 24 MICROFIBER FROM EXISTING HANDHOLE AT 19TH ST TO 101 18TH ST (STONE CREEK) IN THE DAVENPORT WIRE CENTER.

PRIORITY 28 VICINITY MAP LOCATION:



LEGEND

X POWER POLE	HOUSE	COMPANY ANCHOR	TREE	FIRE HYDRANT
BORE	CULVERT	REPEATER	STAKE/ MILE MARKER	BRIDGE
PROPOSED HANDHOLE	ANCHOR	STREET LIGHT	PROPOSED CABLE LOOP	LOAD COIL
EXISTING HANDHOLE	GAS METER	WARNING SIGN	TEL POLE	WATER VALVE
EXISTING PEDESTAL	BURIED PWR TFMR	SIGNS	SEWER MH	TREES/BRUSH

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RZ: 13 CZ: 9 T: 18N R: 1W S: 32

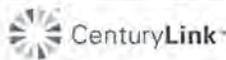
SPECIAL ROUTING INSTRUCTIONS:	YES/NO
POLES	<input type="checkbox"/> <input checked="" type="checkbox"/>
NEW DEVELOPMENT CENTER	<input type="checkbox"/> <input checked="" type="checkbox"/>
OTHER	<input type="checkbox"/> <input checked="" type="checkbox"/>

SPECIAL REMARKS:
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PERMITS

DESIGNED SERVICES: **YES/NO**
 HELD ORDERS:
 ROW REQUIRED:
 CITY:
 COUNTY:
 STATE:
 RAILROAD:
 LOOP QUAL.:
 PREMIS FORM:
 CONFORMANCE TEST:

ERFS DATE:
 TRENCH OPEN DATE:
 APPROVED MNEMONICS:
 ASSOCIATED PROJECTS:



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KCC Engineer:
 B BURKETT
 KCC Drafter:
 P PRICE

Title:
 PL 101 18TH ST (STONE CREEK)

FIREWORKS PROJECT: 495411C
 PROJECT: 495411
 BVAPP:
 WC ID: DVNPIA
 WC NAME: DAVENPORT
 EXCH KEY:
 RMT SWITCH KEY:
 ISSUE:
 SHEET: 1 OF 12



1129 WEST THIRD STREET
DAVENPORT, IA 52802
Voice: 563-324-8940
Fax: 563-324-8960

PROPOSAL

Proposal Number: 9098
Proposal Date: Sep 4, 2013
Page: 1

To:
CITY OF MOLINE

Ship To:
CASEY LUKOWICZ
MIKE BARTELS
MOLINE FIRE STATION

Job Name

Description	Line Item Amount
<p>WILLMAN CONSTRUCTION PROPOSAL INCLUDES ALL LABOR AND MATERIALS TO: REMOVE ALL ASBESTOS PIPE COVERING OFF OF CHILLED WATER LINES AND REPLACE WITH 1" THICK FIBERGLASS INSULATION AND PVC ELBOWS. ALL LABOR BASED ON STRAIGHT TIME.</p>	123,270.00

All material is guaranteed to be as specified. All work is to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, it will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents, or delays beyond our control. Owner to carry fire, tornado, or other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Subtotal	123,270.00
Sales Tax	
Freight	0.00
TOTAL PROPOSAL AMOUNT	123,270.00

Note: This proposal may be withdrawn by us if not accepted within 30 days.

Authorized Signature

Mark Willman

Acceptance of Proposal

The above prices, specifications, and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above

Signature

Date of Acceptance

Signature



PARTNERING FOR ENERGY'S FUTURE

DATE: August 5, 2013

PROPOSAL TO: City of Moline
619 16th Street
Moline, IL 61265
Attn: Mr. Mike Bartels

PROJECT: Asbestos Abatement
Chiller Pipe Insulation
in Basement and 1st Floor
Moline Fire Station
Quote # 14016

We propose to supply the labor, materials and equipment to remove and dispose of approximately 2,300 LF asbestos containing pipe fitting insulation and pipe insulation on the chilled supply and return lines located in the basement and the 1st floor of the Fire Station as directed by Moline Fire Department personal. The asbestos fitting insulation and pipe insulation materials will be removed within a regulated area utilizing glovebag removal methods, proper containerization and disposal. This Quote *does* require a 10 working day notice to IEPA and IDPH prior to the start of abatement activities.

- Quote does not include any selective wall or ceiling demolition to access piping in enclosed walls or ceilings.
- Quote does not include the removal of suspended ceiling system for access to piping, work to be provided by others.
- Quote is based on the use of the building utilities.
- Quote includes PCM air clearance testing and documentation of abated areas.
- Quote includes cost for IEPA and IDPH Notifications.
- Quote is based on first shift straight time wage rate for 2nd shift hours.
- Quote does not include any piping located in the tunnels.

All work will be performed by certified personnel and in compliance with all state and federal EPA regulations. **All work is covered by 10 million dollars of occurrence based, asbestos specific liability insurance.** Copies of the proper notifications, air monitoring results and disposal receipts will be furnished for your records.

QUOTE TO REMOVE AND DISPOSE \$76,792.00

Thank you for allowing us to bid on this project and should you have any questions regarding this quote, please feel free to call me at 563-391-8100.

ACCEPTANCE OF QUOTE: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Unless otherwise stated above, payment will be due upon completion of the work.

Date _____ Signature _____


Pat Emerick, Project Manager

THIS PROPOSAL IS SUBMITTED FOR YOUR CONSIDERATION AND SUBJECT TO ALL TERMS AND CONDITIONS
AUTHORIZED DISTRIBUTORS OF KNAUF FIBER GLASS INSULATION, ARMACELL, AND FOSTER/CHILDERS PRODUCTS

IOWA-ILLINOIS TAYLOR INSULATION | P.O. BOX 2810 | DAVENPORT, IA 52809 | PHONE 563-391-8100 | FAX 563-391-8200



3205 WEST 76TH STREET
DAVENPORT, IA 52806
PHONE 563-391-8100
FAX 563-391-8200

PARTNERING FOR ENERGY'S FUTURE

Fax Quotation

Date: August 2, 2013

Company: IA. IL. Taylor Insulation

Fax Number:

Attention: Pat Emrick

From: George Menke

Subject: Moline Fire Department-Basement and First Floor

Quote Number:

This fax contains **1 Page**, including this cover page. Please call if you do not receive all of the pages. If you have received this fax in error, please call immediately

Message:

We quote to insulate the existing chilled supply and return with fiber glass pipe covering ASJ-SSL. The insulation thickness would be determined by the hanger size. The hangers will not be changed out to install thicker insulation. The price has been adjusted to add additional time needed to work thru ceiling grid. If any drywall needs to be removed, it will be at the owners expense. Price includes all labor, materials and tools needed to complete the work. This has been figured as straight time work and is valid for 30 days.

Budget Price \$64,000.00
(Chilled Piping ONLY)

Note: Total footage on supply and return comes to about 2,300' plus fittings and valves.

Note: We exclude overtime work and removal of existing pipe insulation or drywall to expose piping.

We thank you in advance for your consideration of our proposal and remain at your disposal for further assistance or data.

Confidential Notice: The documents accompanying this fax transmission contain confidential information belonging to the sender which is legally privileged. The information is intended only for the use of the individual or entity above. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or taking of any action in reliance on or regarding the contents of this fax transmission is strictly prohibited. If you have received this fax in error, please immediately notify us by telephone or return of the original document.

PROPOSAL

ENVIRONMENTAL MANAGEMENT SERVICES OF IOWA, INC.

5170 WOLFF ROAD, #2

DUBUQUE, IOWA 52002-2563

PHONE: (563) 583-0808

FAX: (563) 583-2206

PROPOSAL TO: City of Moline Attn: Mr. Mike Bartels	PHONE: (309) 737-9583 - cell mbartels@moline.il.us	DATE: September 3, 2013
STREET: 3635 - 4th Avenue	JOB: Asbestos Removal	
CITY, STATE, ZIP: Moline, IL 61265	JOB LOCATION: Moline Main Fire Station, corner of 8th Ave. & 17th St., Moline, IL	

We hereby submit specifications and estimates for:

ASBESTOS REMOVAL:

Removal and disposal of approximately 3,000 ln. ft. of fiberglass pipe insulation and approximately 400-425 asbestos mudded joint fittings on the chilled water line in the Basement, First Floor Offices above ceiling tiles, Parking Garage, and Apparatus Garage.

Price Complete \$79,820.00

NOTE: The above price includes all labor, supplies, air sampling, lift rental, disposal costs, and IL EPA notification fee.

REINSULATION:

Reinsulate Chilled Water: Insulate chilled water piping in the basement, first floor level, parking garage, and apparatus garage with 1" fiberglass pipe insulation and appropriate PVC fitting covers.

Material and Labor \$75,950.00

OPTION: Add PVC jacket exposed chilled water piping in Police Parking Garage and Apparatus Room with .020 PVC jacket.

Material and Labor \$24,100.00

NOTES: The prices are based on Prevailing Wage rates.

***WI JOBS ONLY:** If awarded this project, there will be an additional notification fee, if applicable, added to the price quoted as this fee is required by the WI DNR. The fees range from \$50.00 to \$1,325.00 depending on the type of project.

***IL JOBS ONLY:** If awarded this project, there will be an additional \$150.00 notification fee, if applicable, added to the price quoted as this fee is required by the IL EPA. Price does not include the cost of required air clearance samples.

***SCHOOL PROJECTS ONLY:** Prices do not include the cost of project management, if applicable, or air clearance samples that are required to be taken by an Independent Air Sampling Professional at the end of a school project. Schools will be billed directly by the Project Manager and/or Air Sampling Professional.

All work will be performed in accordance with OSHA asbestos standard for construction industry, 29 CFR 1926.1101 and USEPA National Emissions Standard for Hazardous Air Pollutants (NESHAPS). Asbestos Regulations, 40 CFR 61 Subpart A & M. All work will be performed by AHERA licensed individuals regularly engaged in asbestos removal.

We propose

Hereby to furnish materials, equipment and labor, complete in accordance with the above specifications, for the sum of Prices Stated Above

Payment to be made as follows:

Net 10 days from receipt of invoice / 1.5% Past Due

Any alteration or deviation from the above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents, or delays beyond our control.

Iowa Contractors License No. 2260
IL Asbestos Contractor Permit No. 500-0482
WI Contractor Permit No. CAP-13150

Authorized Signature:



Mark Hogan, President

NOTE: This proposal may be withdrawn if not accepted within 30 days.

Acceptance of Proposal

The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as stated above.

Signature: _____

Date Accepted: _____

Signature: _____



**Tepfer
Consulting
Group, Ltd.**

Actuaries and Administrators
145 Revere Drive
Northbrook, Illinois 60062-1555
847-509-7740 Fax: 847-509-7745
www.TepferConsulting.com

**CITY OF MOLINE
FIREFIGHTERS' PENSION FUND**

**ACTUARIAL VALUATION
AS OF JANUARY 1, 2013 FOR THE
FISCAL YEAR ENDING DECEMBER 31, 2013**

July 12, 2013

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ACTUARIAL STATEMENT

Tepfer Consulting Group, Ltd. was retained by the City of Moline and City of Moline Firefighters' Pension Fund to perform an independent actuarial valuation for the Firefighters' Pension Fund. This valuation is permitted under 40 ILCS 5/22, Section 503.2.

The actuarial valuation was performed for the year ended December 31, 2013 and indicates a **statutorily required contribution in accordance with 40 ILCS 5/4, Section 118 of \$2,659,916 or 56.33% of member payroll, a recommended minimum contribution of \$3,479,730 or 73.69% of payroll, and an Annual Required Contribution in accordance with paragraph 36f of Statement No. 25 of the Governmental Accounting Standards Board of \$3,267,089 or 69.19% of payroll.** These contributions are net of contributions made by active member firefighters during the fiscal year.

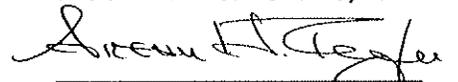
The results shown in this report have been calculated under the supervision of a qualified Actuary as defined in appropriate State statutes. All results are based upon demographic data submitted by the Firefighters' Pension Fund, financial data submitted by the Firefighters' Pension Fund, applications of actuarial assumptions, and generally accepted actuarial methods.

In our opinion, all calculations and procedures are in conformity with generally accepted actuarial principles and practices; and the results presented comply with the requirements of the applicable State statute, Actuarial Standards Board, or Statements of Governmental Accounting Standards, as applicable.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the plan and future expectations, and represent a reasonable and adequate approach to the financing of the retirement program. The costs, actuarial liabilities and other information presented in this report, in our opinion, fully and fairly disclose the actuarial position of the plan.

I, Arthur H. Tepfer, am an Enrolled Actuary in good standing under the Employee Retirement Income Security Act of 1974. I am a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. I certify that the results presented in this report are accurate and correct to the best of my knowledge.

TCG PUBLIC CONSULTING, LTD.



Arthur H. Tepfer, A.S.A., M.A.A.A.
Enrolled Actuary #11-02352

July 12, 2013

VALUATION OBJECTIVES

The **City of Moline Firefighters' Pension Fund** provides benefits to members when they retire, die, become disabled or terminate employment. As with any plan providing these types of benefits, an appropriate budgeting pattern must be established to enable appropriate funds to be accumulated to meet all payments when due. The actual cost of the plan can best be expressed in the following simplistic manner:

ACTUAL COST EQUALS	Benefits Paid
	Plus
	Expenses Paid
	Less
	Investment Income Earned

If the actual cost is incurred on a "pay as you go" basis, then the future generations of members will be paying for the benefits of current plan participants. Proper financial planning calls for budgeting the actual cost of the plan over the working lifetime of current plan membership in order to establish an equitable allocation. An actuarial valuation is the procedure used to determine an appropriate amount to be contributed to the pension plan each year in order to attain this equity.

An actuarial valuation is an estimate at a particular point in time of the predicted incidence of the future benefit costs. Since the actual cost of the plan is essentially unknown, pre-funding (budgeting for future benefit costs) requires certain assumptions about future events. Assumptions are made for such things as salary increases, terminations of participants, disablement of participants, death of participants and anticipated investment earnings. These assumptions although not affecting the actual costs of the plan will affect the incidence of predicted future costs. For proper funding, it is required that the Actuary select assumptions which are appropriate in light of the economic, demographic, and legislative environment as they relate to the pension program. The assumptions we have made concerning these future events are described more fully in Appendix 2 of this report. Based on these assumptions, a projection of future benefits was made and a current contribution level sufficient to provide the anticipated benefit payments was determined through the use of an actuarial cost method.

Selection of the Actuarial Cost Method

An actuarial cost method, sometimes called a "funding method", therefore, is essentially an approach to budgeting the estimated future costs. There are many actuarial cost methods which are available to the actuary and each method operates differently. However, all funding methods accomplish the same objective—to assign to each fiscal year of the employer the portion assumed to have accrued in that year. The portion of the actuarial value of benefits assigned to a particular year in respect of an individual participant or the fund as a whole is called the **normal cost**. All funding methods are described by how the normal cost is calculated.

The actuarial cost method prescribed by the State statutes to determine the **statutorily minimum required contribution** for periods on or after January 1, 2011 is the Projected Unit Credit Cost Method. Under this actuarial cost method, the ongoing cost as a percentage of total payroll will increase. In this method, the normal cost is determined by first calculating the projected dollar amount of each participant's accumulated benefit under the plan as of both the first day of the fiscal year and as of the last day of the fiscal year and then determining the difference between these two amounts. The second step in deriving the normal cost for a given participant is to multiply the dollar amount of this difference by the actuarial present value of \$1 of benefit.

The actuarial cost method selected by our firm to determine the **recommended plan contribution** is the Entry Age Normal Cost Method. Under this actuarial cost method, ideally, the ongoing cost as a percentage of total payroll should remain fairly stable. In this method, the normal cost is determined by assuming each participant covered by the plan entered the plan under the same conditions that will apply to future plan entrants. The annual normal cost assigned to each year of an employee's career is calculated as a level percentage of the employees assumed earnings each year. These normal costs accumulate to the present value of the employee's benefit at retirement age.

VALUATION OBJECTIVES
(Continued)

Under both the Entry Age Normal Cost Method and the Projected Unit Credit Cost Method, the total funding of projected benefit costs is allocated between an unfunded liability, representing past benefit history, and future normal costs. This allocation is based on the assumption that the municipality will pay the normal cost for each plan year on a regular basis. It should be noted that although the term "unfunded liability" is applied to both funding methods, the resulting amount is different because of the method of calculation. Another feature of these methods is that only the unfunded liability is affected by the experience of the plan, and therefore any adjustments are made in the future amortization payments.

In addition to the methodology changes described above, P.A. 96-1495 also addressed the valuation of pension fund assets—the second component in the determination of the unfunded liability. The statute now provides that the actuarial value of a pension fund's assets be set equal to the market value of the assets on March 30, 2011 and that, in determining the actuarial value of assets after that date, any actuarial gains or losses from investment returns incurred in a fiscal year be recognized in equal amounts over the 5-year period following that fiscal year.

The actuarial valuation process is usually repeated each year and is to a certain extent self-correcting. As part of these actuarial cost methods, any deviation of actual experience from the chosen actuarial assumptions will be reflected in future contributions. A complete description of these actuarial cost methods is explained in Appendix 4 of this report.

Despite the statutory language which requires an application of the Projected Unit Credit method, we feel that funding under this method as a *level percentage of payroll* severely undermines the benefit security of the retirement system and transfers the payment for currently earned pensions to future generations of taxpayers. For these reasons, our valuation report also presents a recommended minimum contribution that will operate to maintain the fundamental fiscal soundness of the retirement program, although a statutorily required contribution has also been calculated. The calculation of the recommended minimum contribution is based upon an amortization payment of 90% of any unfunded accrued liabilities as a *level dollar amount* over 30 years from January 1, 2011, the effective date of P.A. 96-1495. The calculation of the statutorily required contribution is based upon an amortization payment of 90% of any unfunded accrued liabilities as a *"level percentage of payroll"* over 30 years from January 1, 2011, the effective date of P.A. 96-1495.

Although, I do not agree with the statutorily required level percentage of payroll methodology of determining the amortization of the unfunded accrued liability, I would be remiss if I did not advise my funds as to a "statutorily" acceptable calculation under the State law.

Effective for periods beginning after June 15, 1996, the Governmental Accounting Standards Board has issued Statement No. 25 "Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans". This Statement establishes a financial reporting framework for defined benefit pension plans that distinguishes between two categories of information: (a) current financial information about plan assets and financial activities and (b) actuarially determined information, from a long-term perspective, about the funded status of the plan and the progress being made in accumulating sufficient assets to pay benefits when due. The calculation of the Annual Required Contribution (ARC) is described in paragraph 36f of the Statement and is based upon an amortization payment of any unfunded accrued liabilities as either a level dollar amount or a level percentage of total payroll over a maximum of 40 years from the effective date of the Statement. Any significant increase in the total unfunded actuarial liability resulting from a change in actuarial methodology should be amortized over a period not less than 10 years.

Actuarial experience since the last actuarial valuation

As part of the actuarial valuation process, it is helpful to examine the actual experience of the fund as compared to the experience which is expected by the actuarial assumptions. The measurement of any deviations of actual to expected experience is commonly referred to as a "Gain and Loss Analysis". In performing this analysis, the actuary analyzes each actuarial assumption used in the valuation process. It is highly unlikely that actual experience will follow expected experience on a year-by-year basis. It is hoped that over the long term, if the actuarial assumptions are "reasonable", the total gains and losses will offset each other.

A "gain and loss analysis" is a useful tool to examine whether the actuarial assumptions used to determine the municipal tax levy are suitable. Care must be taken in placing too much credibility in a short-term analysis as the assumptions are more appropriately measured over the long term. Nonetheless, an annual evaluation of the actuarial assumptions will assist in identifying trends which, if unnoticed, can lead to inappropriate conclusions. When these trends are recognized, it is the actuary's responsibility to modify one or more of the assumptions to better anticipate future experience.

**VALUATION OBJECTIVES
(Continued)**

Some assumptions are easier to measure than others. In small plans, credible analysis can generally be made regarding the economic (financial) assumptions. These primarily include investment and salary increase assumptions. Unfortunately, it is often impossible to establish credible long term analysis of demographic assumptions (rates of termination, disability, retirement and mortality). Therefore, in choosing demographic assumptions, the actuary generally relies upon standardized tabular assumptions modified only by fund-specific characteristics.

The actuarial gain and loss analysis for the current year is presented in Exhibit 3-C and 3-D of the report. Exhibit 3-C shows the impact of the actuarial gains or losses on the recommended minimum contribution through a reconciliation of this contribution from the end of the prior valuation year to the end of the current valuation year. Exhibit 3-D derives the actuarial gain or loss in total as well as separating the individual financial and demographic components.

The overall experience gain (loss) for the year was \$ (1,756,236) or 2.67% of the accrued liability at the beginning of the plan year. The dollar amount for the plan's recommended minimum contribution is 106.10% of the prior year's contribution. When measured as a percentage of payroll, the contribution level has changed from 71.16% to 73.69%.

However, please be advised that the prior year's contribution was substantially understated because of the overstatement of the valuation assets. Therefore, the contribution this year actually increased much less than indicated. The reported large loss this year is a direct result of the actual market investment loss and the assumptions in the aggregate are well within acceptable levels. See Exhibit 3D for specific information.

Thirty-year Projection of Liabilities

The final section of our report illustrates projected payments from the Trust Fund for a 30-year period commencing with the valuation date. These projections are based upon the actuarial assumptions selected for the fund concerning death, disability and retirement actually occurring. Care should be taken in interpreting or relying on these results— particularly for Funds with fewer than 200 participants. The credibility of this type of projection is rarely realized beyond 10 years. Exhibit 5D presents this projection.

RESULTS OF VALUATION

The following exhibits present the results of our actuarial valuation of the **City of Moline Firefighters' Pension Fund** for the fiscal year January 1, 2013 through December 31, 2013.

Exhibit 1 indicates that the recommended minimum contribution, calculated using the Entry Age Normal Cost method (EANC), from the City is \$3,479,730 or 73.69% of total participating payroll. **Under the Entry Age Normal actuarial cost method selected, this percentage of payroll should remain reasonably level over the lifetime of the plan.**

Exhibit 1 also indicates that the statutory minimum contribution, calculated using the Projected Unit Credit method (PUC), from the City is \$2,659,916 or 56.33% of total participating payroll. **Under the Projected Unit Credit actuarial cost method selected, this percentage of payroll should increase over the lifetime of the plan.**

Exhibits 2 and 3 provide specific information used to develop the recommended minimum and statutorily required City contribution and GASB Annual Required Contribution (ARC).. The Annual Required Contribution as of January 1, 2013 has been determined under the Governmental Accounting Standards Board Statement No. 25 and is required disclosure for the fiscal year ending December 31, 2013. The Entry Age Normal Cost and the Actuarial Accrued Liability were determined using the Entry Age Normal Cost Actuarial Cost Method.

The Entry Age Normal Cost has been determined as a level percentage of projected payroll of the active members of the group. The amortization method for the Unfunded Actuarial Accrued Liability is determined as a level percentage of payroll amount over a closed Amortization Period as permitted in Governmental Accounting Standards Board Statement No. 25.

Contribution amounts presented in this report have not been adjusted for interest to the date of payment. All values were determined on the basis of the actuarial assumptions and methods as more fully described in Appendix 1 of this report.

Exhibit 4 presents a brief description of the demographic characteristics of the current member group.

Exhibit 5 shows information relating to the pension assets.

**GENERAL VALUATION RESULTS FOR FISCAL YEAR
JANUARY 1, 2013 THROUGH DECEMBER 31, 2013**

Recommended Minimum Contribution

1.	Entry Age Normal Cost:	\$ 1,030,844
2.	Unfunded Actuarial Accrued Liability (or Surplus):	38,993,485
3.	Actuarial Value of Assets:	26,794,893
4.	Annual Salaries of Active Firefighters:	4,540,511
5.	Recommended Minimum Contribution from the City:	3,479,730
	Contribution Percentage:	73.69%*

Statutory Minimum Contribution

1.	Projected Unit Credit Normal Cost:	\$ 1,244,792
2.	Unfunded Actuarial Accrued Liability (or Surplus):	36,561,349
3.	Actuarial Value of Assets:	26,794,893
4.	Annual Salaries of Active Firefighters:	4,540,511
5.	Statutory Minimum Contribution from the City:	2,659,916
	Contribution Percentage:	56.33%*

* Projected for the fiscal year ending December 31, 2013.

SUMMARY OF SPECIFIC VALUATION RESULTS

	<u>Number</u>	<u>Actuarial Present Value of Projected Benefits</u>	<u>Entry Age Normal Cost</u>	<u>Projected Unit Credit Normal Cost</u>
1. Active Firefighters:	66			
Retirement Pension:		\$22,964,551	\$662,825	\$887,375
Survivors Pension:		1,016,178	55,531	51,879
Disability Pension:		5,845,844	291,416	292,035
Withdrawal Pension:		200,701	21,072	13,503
		<hr/>	<hr/>	<hr/>
TOTAL	66	\$30,027,274	\$1,030,844	\$1,244,792
2. Inactive Firefighters and Survivors:				
Normal Retirees:	64	\$35,592,694		
Widows (Survivors):	20	2,597,144		
Children (Survivors):	0	0		
Disabled Retirees:	14	6,684,536		
Deferred Vested:	0	0		
Terminated/Separated:	<u>0</u>	<u>0</u>		
TOTAL	98	\$44,874,374		

**SUMMARY OF SPECIFIC VALUATION RESULTS
(Continued)**

	<u>Entry Age Normal (EAN)</u>	<u>Projected Unit Credit (PUC)</u>
3. Total Actuarial Present Value of Projected Benefits:	\$74,901,648	N/A
4. Actuarial Present Value of Future Normal Costs:	9,113,270	N/A
5. Actuarial Accrued Liability: [(3) - (4)]	65,788,378	63,356,242
6. Actuarial Value of Assets:	26,794,893	26,794,893
7. Unfunded Actuarial Accrued Liability (or Surplus): [(5) - (6)]	38,993,485	36,561,349
8. Funded Ratio Percentage: [(6) ÷ (5)] x 100	40.73%	42.29%

HISTORY OF FUNDED PERCENTAGES

<u>For the Year beginning January 1</u>	<u>Valuation Assets</u>	<u>EAN Accrued Liabilities</u>	<u>EAN Funded Percentage</u>	<u>PUC Accrued Liabilities</u>	<u>PUC Funded Percentage</u>
2013	\$26,794,893	\$65,788,378	40.73%	\$63,356,242	42.29%
2012	27,715,000	64,661,538	42.86	62,240,237	44.53
2011	29,183,658	62,032,976	47.05	59,678,809	48.90

DEVELOPMENT OF RECOMMENDED MINIMUM CITY CONTRIBUTION

	Fiscal Year January 1, 2013 through <u>December 31, 2013</u>
1. Entry Age Normal Cost:	\$1,030,844
Interest to December 31, 2013:	<u>77,313</u>
(a) Total	\$1,108,157
(b) 17½% of Projected Payroll	794,589
(c) Minimum Cost Payable, greater of (a) and (b):	\$1,108,157
2. Recommended Minimum Payment to Amortize 90 % of the Entry Age Normal Unfunded Accrued Liability <u>as a level dollar amount</u> over 27.99726 Years from January 1, 2013 with interest to December 31, 2013 :	2,800,878
3. Credit for Surplus:	0
4. Initial Recommended Minimum Contribution for Fiscal Year 2013: [(1) + (2) + (3)]	3,909,035
5. Statutory Minimum Contribution (Exhibit 3B line 4)	3,089,221
6. Total Recommended Minimum Contribution for Fiscal Year 2013: [Greater of Line 4 and Line 5]	3,909,035
7. Active Member Contributions (9.455% of Salaries):	429,305
8. Net Recommended Minimum City Contribution: [(6) - (7)]	3,479,730

DEVELOPMENT OF STATUTORILY REQUIRED CITY CONTRIBUTION
(NOTE THAT THIS CONTRIBUTION CALCULATION IS NOT RECOMMENDED)

	Fiscal Year January 1, 2013 through <u>December 31, 2013</u>
1. Projected Unit Credit Normal Cost:	\$1,244,792
Interest to December 31, 2013:	<u>93,359</u>
(a) Total	\$1,338,151
(b) 17½% of Projected Payroll	794,589
(c) Minimum Cost Payable, greater of (a) and (b):	\$1,338,151
2. Minimum Payment to Amortize 90% of the Projected Unit Credit Unfunded Accrued Liability <u>as a level percentage of payroll</u> over 27.99726 Years from January 1, 2013 with interest to December 31, 2013:	1,751,070
3. Credit for Surplus:	0
4. Total Statutorily Required Contribution for Fiscal Year December 31, 2013: [(1) + (2) + (3)]	3,089,221
5. Active Member Contributions (9.455% of Salaries):	429,305
6. Statutorily Required City Contribution: [(4) - (5)]	2,659,916

**RECONCILIATION OF THE CHANGE
IN THE RECOMMENDED MINIMUM CITY CONTRIBUTION**

1. Recommended Minimum Contribution for Year ending 12/31/2012:	\$3,279,523
2. Increase in Normal Cost and Amortization Payment due to anticipated pay changes:	119,810
3. Increase/(Decrease) in Normal Cost resulting from actual pay changes:	2,902
4. Effect of Asset Smoothing:	(42,336)
5. Increase/(Decrease) resulting from changes in assumptions:	0
6. Increase/(Decrease) resulting from other demographic and financial sources (retirements, deaths, new entrants, salary changes, etc.):	(699,983)
7. Recommended Minimum Contribution for Year ending December 31, 2013:	\$3,479,730

GASB STATEMENT NO. 25 DISCLOSURE INFORMATION

DEVELOPMENT OF THE ANNUAL REQUIRED CONTRIBUTION OF THE MUNICIPALITY

	Fiscal Year January 1, 2013 through <u>December 31, 2013</u>
1. Entry Age Normal Cost	\$1,030,844
2. Actuarial Accrued Liability	65,788,378
3. Actuarial Value of Assets*	26,794,893
4. Unfunded Actuarial Accrued Liability	38,993,485
5. Payment to Amortize Unfunded Actuarial Accrued Liability Over 40 Years from the Effective Date of Application of GASB 25 (20 years remaining)	2,665,550
6. Total Annual Required Contribution for Fiscal Year December 31, 2013: [(1) + (5)]	3,696,394
7. Active Member Contributions (9.455% of Salaries):	429,305
8. Annual Required Contribution (ARC) payable at the beginning of the current fiscal year: [(6) - (7)]	3,267,089

*Excluding Contributions Receivable

**DERIVATION OF EXPERIENCE GAIN(LOSS) AND COST METHOD CHANGE
AS OF JANUARY 1, 2013**

1.	EANC Unfunded Actuarial Accrued Liability at 1/1/2012:	\$36,946,538
2.	Entry Age Normal Cost Due at 1/1/2012:	1,017,556
3.	Interest on (1) and (2) to January 1, 2013 (at 7.50% per year):	2,847,307
4.	Contributions made for the prior year with interest to January 1, 2013:	3,574,152
5.	Expected EANC Unfunded Actuarial Accrued Liability at January 1, 2013 Before Assumption Changes [(1) + (2) + (3) - (4)]:	37,237,249
6.	Change in EANC Unfunded Actuarial Accrued Liability due to Assumptions Change at January 1, 2013:	0
7.	Expected Unfunded Actuarial Accrued Liability at January 1, 2013 [(5) + (6)]:	37,237,249
8.	Actual EANC Unfunded Actuarial Accrued Liability at January 1, 2013:	38,993,485
9.	Gain (Loss) for the prior Plan Year [(7) - (8)]:	<u>\$ (1,756,236)</u>

The experience gain (loss) reported above is the net result of the following:

1.	<u>FINANCIAL SOURCES</u>	
	a) Investment experience (based upon market value of assets):	\$ (2,728,930)
	b) Contribution experience:	(259,890)
	c) Benefit Payments experience:	(307,531)
	d) Salary increases (greater)/lower than expected:	<u>68,064</u>
	Total from Financial Sources:	(3,228,287)
2.	<u>DEMOGRAPHIC SOURCES</u>	
	Mortality, retirement, disability, termination, etc.:	529,292
3.	<u>ACTUARIAL ADJUSTMENTS</u>	
	Market value adjustment for asset smoothing, including expenses	942,759
4.	<u>GAIN (LOSS) ALL SOURCES</u>	
	Total Gain (Loss) for the prior Plan Year [(1) + (2) + (3)]:	\$ (1,756,236)

SUMMARY OF DEMOGRAPHIC INFORMATION AS OF JANUARY 1, 2013

	<u>Number</u>	Projected Annual Salaries (Fiscal Year 2013)
Active Firefighters:	66	\$4,540,511
	<u>Number</u>	Total <u>Monthly Benefits</u>
Normal Retirees:	64	\$264,328
Survivors (Widows):	20	40,612
Survivors (Children):	0	0
Disabled Retirees:	14	41,592
Deferred Vested:	0	0
Terminated/Separated:	0	0 *

* Return of Contributions

The actuarial valuation was performed as of January 1, 2013 to determine contribution requirements for fiscal year 2013.

AGE AND SERVICE DISTRIBUTION

Attained Age	COMPLETED YEARS OF SERVICE										Total	Average Salaries
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+		
15-19											0	-
20-24											0	-
25-29		6	1								7	48,916
30-34		5	5								10	51,262
35-39		4	1	6							11	61,871
40-44			5	2	5						12	68,888
45-49			1	3	1	2					7	74,486
50-54					2	12	1				15	85,310
55-59				1			2				3	89,830
60-64							1				1	107,680
65+											0	-
TOTAL	0	15	13	12	8	14	4	0	0	0	66	68,796

Age = 41.71 Years

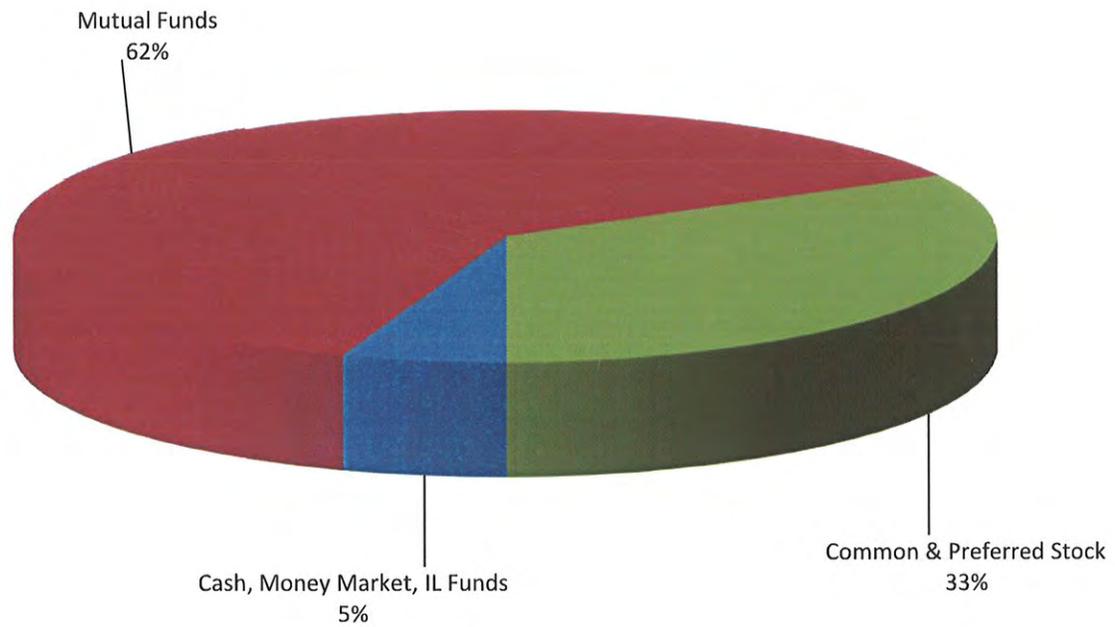
Service = 13.01 Years

ASSET INFORMATION

Cash, Money Market, IL Funds	\$1,312,067
Certificates of Deposit	0
State, Local and Corporate Obligations	0
U.S. Government and Agency Obligations	0
Insurance Company Contracts	0
Pooled Investment Accounts	0
Mutual Funds	15,168,091
Common & Preferred Stock	8,053,297
Taxes Receivable	0
Accrued Interest	0
Other Receivables	0
Net Liabilities	0
Net Present Assets at Market Value	<u>\$24,533,455</u>

The chart on the following page shows a percentage of invested assets.

ASSET INFORMATION



DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

1.	Market Value of Assets, January 1, 2012**				\$ 26,396,321	
2.	Actual Income and Disbursements in prior year weighted for timing					
		Item	Amount	Timing	Weight for Amount	Weighted
		Contributions Received During 2012	3,455,424		50.00%	1,727,712
		Miscellaneous Revenue	50		50.00%	25
		Benefit Payments and Expenses Made During 2012	4,528,881		(50.00)%	(2,264,441)
		Total				(536,704)
3.	Market Value of assets adjusted for actual income disbursements [(1) + 2(d)]					25,859,618
4.	Assumed rate of return on plan assets for the year					7.50%
5.	Expected return on assets [(3) x (4)]					1,939,471
6.	Market Value of Assets, January 1, 2012					26,396,321
7.	Income (less investment income) for prior year					3,455,424
8.	Disbursements paid in prior year					4,528,881
9.	Market Value of Assets, January 1, 2013					\$24,533,455
10.	Actual Return [(9) + (8) - (7) - (6)]					(789,459)
11.	Investment Gain/(Loss) for Prior Year [(10) - (5)]					(2,728,930)

DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS
(Continued)

12.	Market Value of Assets, January 1, 2013:			\$24,533,455
13.	Deferred investment gains and (losses) for last 4 years:			
		Plan Year Beginning	Gain/(Loss)	Percent Deferred
				Deferred Amount
a)	2013**	\$ (2,728,930)	80%	\$ (2,183,144)
b)	2012	\$ 125,458	60%	\$ 75,275
c)	2011	\$ 261,109	40%	\$ 104,444
d)	2010	\$ (1,290,062)	20%	\$ (258,012)
e)	Total	\$ (3,632,425)		\$ (2,261,438)
14.	Actuarial value of plan assets for funding,, January 1, 2013: Item (12) less item 13(e):			\$ 26,794,893
15.	Taxes receivable:			0
16.	Actuarial value of plan assets for GASB reporting January 1, 2013 item (14) less item (15)*:			\$ 26,794,893

Notes: * excluding taxes receivable

**The calculated value is determined by adjusting the market value of assets to reflect investment gains and losses (the difference between the actual investment return and the expected investment return) during each of the last five years at the rate of 20% per year.

ANALYSIS OF INVESTMENT RETURN

<u>Fiscal Year</u> <u>Ending December 31</u>	<u>Annual Rate</u> <u>of Return</u>
2012	9.71%
2011	2.58
2010	8.16
2009	1.91
2008	-11.28
2007	5.75
2006	8.41
2005	3.93
<u>Composite</u>	
2005-2012	2.26%

THIRTY - YEAR PROJECTION OF PAYMENTS

Year	Payouts from Active Group Upon					Payouts from		Total
	Termination		Death	Retirement	Disability	Retired Group	Deferred Pensioners	
	Lump Sum	Deferred Pension						
2013	3,165	0	16,046	119,389	33,609	4,154,230	0	4,326,439
2014	3,003	0	23,932	235,356	69,119	4,101,130	0	4,432,540
2015	2,588	0	24,362	357,071	105,103	4,024,550	0	4,513,674
2016	2,061	0	32,184	485,755	143,662	3,949,634	0	4,613,296
2017	1,032	0	39,229	618,978	181,002	3,865,999	0	4,706,240
2018	0	0	47,046	761,828	219,075	3,778,462	0	4,806,411
2019	0	0	54,702	915,274	255,063	3,687,325	0	4,912,364
2020	0	0	61,328	1,055,495	288,258	3,592,732	0	4,997,813
2021	0	0	68,903	1,202,889	321,127	3,495,040	0	5,087,959
2022	0	0	75,240	1,338,113	352,261	3,394,588	0	5,160,202
2023	0	0	82,856	1,459,655	383,392	3,291,184	0	5,217,087
2024	0	0	88,448	1,585,351	415,240	3,185,033	0	5,274,072
2025	0	0	95,243	1,716,013	446,452	3,075,853	0	5,333,561
2026	0	0	100,426	1,866,306	478,852	2,963,778	0	5,409,362
2027	0	0	106,616	1,999,349	511,703	2,848,552	0	5,466,220
2028	0	0	110,971	2,118,034	544,382	2,729,944	0	5,503,331
2029	0	0	116,296	2,226,977	578,974	2,607,522	0	5,529,769
2030	0	0	119,664	2,373,169	609,394	2,481,075	0	5,583,302
2031	0	0	124,304	2,519,565	641,808	2,350,383	0	5,636,060
2032	0	0	126,662	2,657,445	672,858	2,215,372	0	5,672,337
2033	0	0	130,647	2,773,860	698,247	2,076,137	0	5,678,891
2034	0	0	131,902	2,886,243	722,513	1,932,931	0	5,673,589
2035	0	0	134,757	3,000,040	748,216	1,786,260	0	5,669,273
2036	0	0	135,094	3,108,358	771,597	1,637,002	0	5,652,051
2037	0	0	136,841	3,193,459	790,536	1,486,380	0	5,607,216
2038	0	0	136,105	3,258,763	805,601	1,335,763	0	5,536,232
2039	0	0	136,516	3,314,640	817,156	1,186,969	0	5,455,281
2040	0	0	133,386	3,356,566	832,417	1,041,821	0	5,364,190
2041	0	0	132,605	3,385,070	841,315	902,321	0	5,261,311
2042	0	0	129,027	3,394,096	845,979	770,417	0	5,139,519

ACTUARIAL ASSUMPTIONS

(Economic)

Investment Return

7.50% per annum, compounded annually (net of expenses).

Salary Increases

Representative values of assumed salary increases are as follows:

<u>Age</u>	<u>Increase %</u>
25	4.8611
30	2.9848
35	2.0341
40	1.5239
45	1.3083
50	1.1846
55	1.1220

An additional inflation allowance of 2.00% per year is added to the above.

Payroll Growth

It was assumed that payroll will grow 4.00% per year.

Cost of Living Adjustments

It was assumed that the Consumer Price Index – Urban (CPI-U) would increase 2.00% per year

Actuarial Asset Basis

The actuarial value of assets recognizes future gains and losses based on a 5-year smoothed market method as prescribed by Statute.

In a 5-year smoothed market method, the current market value of assets is reduced (increased) for the current year and each of three succeeding years, by a portion of the gain/(loss) in market value during the prior year. Such gain/(loss) is determined as the excess/(deficit) of the current market value of assets over the market value of assets as of the prior year, increased to reflect interest at the actuarial rate and adjusted to reflect contributions and benefit payments during the prior year. The portion of such gain/(loss) by which the current market value of assets is reduced (increased) shall be 80% in the current year, 60% in the first succeeding year, 40% in the second succeeding year and 20% in the third succeeding year.

Additionally, in accordance with government accounting standards, the actuarial value of assets is adjusted to remove any contributions receivable on the reporting date.

Expenses

None assumed.

(Demographic)

Mortality

Active Lives

RP-2000 Combined Healthy Mortality Table (male) with blue collar adjustment and with a 200% load for participants under age 50 and 125% for participants age 50 and over. Five percent (5%) of deaths amongst active firefighters are assumed to be in the performance of their duty.

Non-Active Lives

RP-2000 Combined Healthy Mortality Table (male) with blue collar adjustment and with a 200% load for participants under age 50 and 125% for participants age 50 and over.

Termination

Illustrative rates of withdrawal from the plan for reasons other than death or disability are as follows:

<u>Age</u>	<u>Rate of Withdrawal</u>
20	.0397
25	.0250
30	.0146
35	.0079
40	.0042
45	.0029

It is assumed that terminated firefighters will not be rehired

Disability Rates

Incidence of disability amongst firefighters eligible for disability benefits:

<u>Age</u>	<u>Rate</u>
25	.0009
30	.0025
35	.0046
40	.0065
45	.0097
50	.0166
55	.0314

15% of disabilities amongst active firefighters are assumed to be in the performance of their duty.

Retirement Rates

Retirements are assumed to occur between the ages of 50 and 69 in accordance with the following table:

<u>Age</u>	<u>Rate of Retirement</u>	<u>Age</u>	<u>Rate of Retirement</u>
50	.19	60	.28
51	.12	61	.36
52	.04	62	.44
53	.06	63	.52
54	.09	64	.60
55	.12	65	.68
56	.15	66	.76
57	.19	67	.84
58	.22	68	.92
59	.25	69	1.00

(Additional)

Marital Status

85% of firefighters are assumed to be married.

Spouse's Age

Wives are assumed to be 3 years younger than their husbands.

Actuarial Cost Method

Projected Unit Credit for statutory minimum
Entry Age Normal for recommended and GASB reporting

SUMMARY OF PRINCIPAL PLAN PROVISIONS

Definitions

Tier 1 – For Firefighters first entering Article 4 prior to January 1, 2011

Tier 2 – For Firefighters first entering Article 4 after December 31, 2010

Firefighter (4-106): Any person employed in the municipality's fire service as a firefighter, fire engineer, marine engineer, fire pilot, bomb technician or scuba diver.

Creditable Service (4-108): Time served by a firefighter, excluding furloughs and leaves of absence in excess of 30 days, but including leaves of absence for illness or accident and periods of disability where no disability pension payments are received and also including up to 3 years during which disability payments have been received provided contributions are made.

Creditable Service from other specified agencies is also included. Combined service credit option is available on a voluntary basis.

Pension (4-109)

Normal Pension Age

Tier 1 - Age 50 with 20 or more years of creditable service.

Tier 2 - Age 55 with 10 or more years of creditable service.

Normal Pension Amount

Tier 1 - 50% of the greater of the annual salary held in the year preceding retirement or the annual salary held on the last day of service, plus 2½% of such annual salary for service from 20 to 30 year (maximum 25%).

Tier 2 - 2½% of Final Average salary for each year of service. Final Average Salary is the highest salary based on the highest consecutive 96 months of the final 120 months of service

Early Retirement at age 50 with 10 or more years of service but with a penalty of ½% for each month prior to age 55.

Annual Salary capped at \$106,800 increased yearly by the lesser of ½ of the Consumer Price Index- Urban (CPI-U) or 3%. Salary for valuations beginning in 2013 is \$109,971.43.

Minimum Monthly Benefit: \$1,000

Maximum Benefit Percentage: 75% of salary

Minimum Monthly Benefit: Annual step rate increases from \$1,030.00 to \$1,159.27.

Maximum Benefit Percentage: 75% of salary except line of duty.

SUMMARY OF PRINCIPAL PLAN PROVISIONS
(Continued)

Termination Pension Amount

Any firefighter who retires or is separated from service with at least 10, but less than 20 years of credited service, shall be entitled to a monthly pension commencing at age 60 equal to the monthly rate of compensation based on rank at separation multiplied by the applicable percentage below:

<u>Years of Credited Service</u>	<u>Applicable Percentage</u>
10	15.0 %
11	17.6
12	20.4
13	23.4
14	26.6
15	30.0
16	33.6
17	37.4
18	41.4
19	45.6

Pension Increase

Non-Disabled

Tier 1 - 3% increase of the original pension amount after attainment of age 55 for each year elapsed since retirement, followed by an additional 3% of the original pension amount on each January thereafter. Effective July 1, 1993, 3% of the amount of pension payable at the time of the increase including increases previously granted, rather than 3% of the originally granted pension amount.

Tier 2 - The lesser of ½ of the Consumer Price Index- Urban (CPI-U) or 3% increase of the original pension amount after attainment of age 60, followed by an additional 3% of the original pension amount on each January 1 thereafter. For firefighters who retire after January 1, 1986, 3% increase of the original pension amount after attainment of age 55 for each year elapsed since retirement, followed by an additional 3% in each January thereafter.

For firefighters who retire prior to January 1, 1986, but after July 1, 1971, the 3% increase commences at age 60, and for firefighters who retire before July 1, 1971, the 3% increase commences at age 65.

Disabled

3% increase of the original pension amount after attainment of age 60, followed by an additional 3% of the original pension amount in each January thereafter.

Pension to Survivors (4-114)

Eligibility

Death of a firefighter:

- (1) on active duty as a result of any illness or accident;
- (2) on disability retirement;
- (3) on retirement with 20 years of service;
- (4) as a terminated member who has rights to a benefit at age 60; and
- (5) as a deferred pensioner.

**SUMMARY OF PRINCIPAL PLAN PROVISIONS
(Continued)**

Death Benefit

Tier 1 - 54% of annual salary based on attained rank at date of separation of service to surviving spouse, plus 12% of such salary to dependent children under 18.

100% of annual salary if death occurs in the line of duty.

Depending upon the survival of the spouse, dependent children benefits may increase to a level of 20% of firefighter's salary.

Greater of 100% of monthly retirement benefit or 54% of annual salary if completed 20 years of service or on disability retirement.

Tier 2 – 66 2/3% of pension amount to surviving spouse (or dependent children), subject to the following increase: the lesser of ½ of the Consumer Price Index- Urban (CPI-U) or 3% increase of the original pension amount after attainment of age 60, followed by an additional 3% of the original pension amount on each January 1 thereafter.

Minimum Monthly Survivor Pension

Annual step rate increases from \$1,030.00 to \$1,159.27.

Maximum Survivor Pension

75% of such firefighter's salary.

Disability Pension - Line of Duty (4-110)

Eligibility

Suspension or retirement from fire service due to sickness, accident or injury while on duty.

Pension

Greater of 65% of salary attached to rank at date of suspension or retirement and the retirement pension available.

Minimum Monthly Benefit: Annual step rate increases from \$1,030.00 to \$1,159.27.

For each dependent child under 18, an additional \$20 per month increased annually is granted each disabled member. Maximum total benefit is 75% of salary.

Disability Pension - Not on Duty (4-111)

Eligibility

Suspension or retirement from fire service for any cause other than while on duty. Member must have at least 7 years of credited service.

Pension

50% of salary attached to rank at date of suspension or retirement.

Disability Pension - Occupational Disease (4-110.1)

Eligibility

Suspension or retirement from service after 5 years of service from causes of heart disease, cancer, tuberculosis or other lung disease.

Pension

Same pension as in line of duty.

**SUMMARY OF PRINCIPAL PLAN PROVISIONS
(Continued)**

Disability Pension Option A (4-113(a))

Eligibility

Member receiving a disabled pension who attains age 50 and whose years of creditable service and years of disablement total 20 years.

Pension Option

Eligible for pension increase upon conversion to retirement. Pension amount remains the same at date of conversion but subject to annual pension increases.

Disability Pension Option B (4-113(b))

Eligibility

Member receiving disability pension who attains age 50 and who had 20 years of creditable service at date of disablement.

Pension Option

Convert to normal pension based upon years of service at disablement and salary attached to rank on date of election.

Other Provisions

Refund (4-116)

At death with no survivors, contributions are returned to estate.

At termination with less than 20 years of service, contributions are refunded upon request.

Contributions by Firefighters (4.118.1)

9.455% of salary, including longevity, but excluding overtime pay, holiday pay, bonus pay, merit pay or other cash benefit. Additional 1% of salary if combined service credit option is selected.

GLOSSARY

Actuarial Accrued Liability

See *Entry Age Normal Cost Method* and *Projected Unit Credit Cost Method*.

Actuarial Assumptions

The economic and demographic predictions used to estimate the present value of the plan's future obligations. They include estimates of investment earnings, salary increases, mortality, withdrawal and other related items. The *Actuarial Assumptions* are used in connection with the *Actuarial Cost Method* to allocate plan costs over the working lifetimes of plan participants.

Actuarial Cost Method

The method used to allocate the projected obligations of the plan over the working lifetimes of the plan participants. Also referred to as an *Actuarial Funding Method*.

Actuarial Funding Method

See *Actuarial Cost Method*

Actuarial Gain (Loss)

The excess of the actual *Unfunded Actuarial Accrued Liability* over the expected *Unfunded Actuarial Accrued Liability* represents an *Actuarial Loss*. If the expected *Unfunded Actuarial Accrued Liability* is greater, an *Actuarial Gain* has occurred.

Actuarial Present Value

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of *Actuarial Assumptions*.

Actuarial Value of Assets

The asset value derived by using the plan's *Asset Valuation Method*.

Asset Valuation Method

A valuation method designed to smooth random fluctuations in asset values. The objective underlying the use of an asset valuation method is to provide for the long-term stability of employer contributions.

Employee Retirement Income Security Act of 1974 (ERISA)

The primary federal legislative act establishing funding, participation, vesting, benefit accrual, reporting, and disclosure standards for pension and welfare plans.

GLOSSARY
(Continued)

Entry Age Normal Cost Method

One of the standard actuarial funding methods in which the *Present Value of Projected Plan Benefits* of each individual included in the *Actuarial Valuation* is allocated on a level basis over the earnings of the individual between entry age and assumed exit age(s). The portion of this *Actuarial Present Value* allocated to a valuation year is called the *Normal Cost*. The portion of this *Actuarial Present Value* not provided for at a valuation date by the *Actuarial Present Value* of future *Normal Costs* is called the *Actuarial Accrued Liability*.

Normal Cost

The portion of the *Present Value of Projected Plan Benefits* that is allocated to a particular plan year by the *Actuarial Cost Method*. See *Entry Age Normal Cost Method* for a description of the *Normal Cost* under the *Entry Age Normal Cost Method*. See *Projected Unit Credit Cost Method* for a description of the *Normal Cost* under the *Projected Unit Credit Cost Method*.

Present Value of Future Normal Costs

The present value of future normal costs determined based on the *Actuarial Cost Method* for the plan. Under the *Entry Age Normal Cost Method*, this amount is equal to the excess of the *Present Value of Projected Plan Benefits* over the sum of the *Actuarial Value of Assets* and *Unfunded Actuarial Accrued Liability*.

Present Value of Projected Plan Benefits

The present value of future plan benefits reflecting projected credited service and salaries. The present value is determined based on the plan's actuarial assumptions.

Projected Unit Credit Cost Method

One of the standard actuarial funding methods in which the *Present Value of Projected Plan Benefits* of each individual included in the *Actuarial Valuation* is allocated by a consistent formula to valuation years. The *Actuarial Present Value* allocated to a valuation year is called the *Normal Cost*. The *Actuarial Present Value* of benefits allocated to all periods prior to a valuation year is called the *Actuarial Accrued Liability*.

Statement No. 25 of the Governmental Accounting Standards Board (GASB No. 25)

The accounting statement that established the standards of financial accounting and reporting for the financial statements of defined benefit pension plans.

Unfunded Actuarial Accrued Liability

The excess of the *Actuarial Accrued Liability* over the *Actuarial Value of Assets*.



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**CITY OF MOLINE
POLICE PENSION FUND**

**ACTUARIAL VALUATION
AS OF JANUARY 1, 2013 FOR THE
FISCAL YEAR ENDING DECEMBER 31, 2013**

July 12, 2013

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ACTUARIAL STATEMENT

Tepfer Consulting Group, Ltd. was retained by the City of Moline and the City of Moline Police Pension Fund to perform an independent actuarial valuation for the Police Pension Fund. This valuation is permitted under 40 ILCS 5/22, Section 503.2.

The actuarial valuation was performed for the year ended December 31, 2013 and indicates a **statutorily required contribution in accordance with 40 ILCS 5/3, Section 125 of \$2,498,484 or 44.61% of member payroll, a recommended minimum contribution of \$3,114,871 or 55.61% of payroll, and an Annual Required Contribution in accordance with paragraph 36f of Statement No. 25 of the Governmental Accounting Standards Board of \$2,981,298 or 53.23% of payroll.** These contributions are net of contributions made by active member police officers during the fiscal year.

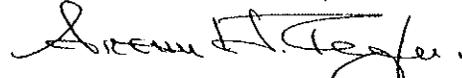
The results shown in this report have been calculated under the supervision of a qualified Actuary as defined in appropriate State statutes. All results are based upon demographic data submitted by the Police Pension Fund, financial data submitted by the Police Pension Fund, applications of actuarial assumptions, and generally accepted actuarial methods.

In our opinion, all calculations and procedures are in conformity with generally accepted actuarial principles and practices; and the results presented comply with the requirements of the applicable State statute, Actuarial Standards Board, or Statements of Governmental Accounting Standards, as applicable.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the plan and future expectations, and represent a reasonable and adequate approach to the financing of the retirement program. The costs, actuarial liabilities and other information presented in this report, in our opinion, fully and fairly disclose the actuarial position of the plan.

I, Arthur H. Tepfer, am an Enrolled Actuary in good standing under the Employee Retirement Income Security Act of 1974. I am a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. I certify that the results presented in this report are accurate and correct to the best of my knowledge.

TCG PUBLIC CONSULTING, LTD.



Arthur H. Tepfer, A.S.A., M.A.A.A.
Enrolled Actuary #11-02352

July 12, 2013

VALUATION OBJECTIVES

The **City of Moline Police Pension Fund** provides benefits to members when they retire, die, become disabled or terminate employment. For plans providing these types of benefits, an appropriate budgeting pattern must be established to enable appropriate funds to be accumulated to meet all payments when due. The actual cost of the plan can best be expressed in the following simplistic manner:

ACTUAL COST EQUALS	Benefits Paid
	Plus
	Expenses Paid
	Less
	Investment Income Earned

If the actual cost is incurred on a "pay as you go" basis, then the future generations of members will be paying for the benefits of current plan participants. Proper financial planning calls for budgeting for the actual cost of the plan over the working lifetime of current plan membership in order to establish an equitable allocation. An actuarial valuation is the procedure used to determine an appropriate amount to be contributed to the pension plan each year in order to attain this equity.

An actuarial valuation is an estimate at a particular point in time of the assumed incidence of the future benefit costs. Since the total actual cost of the plan is essentially unknown, pre-funding (budgeting for future benefit costs) requires certain assumptions about future events. Assumptions are made for such things as salary increases, terminations of participants, disablement of participants, death of participants and anticipated investment earnings. These assumptions, although not affecting the actual costs of the plan, will affect the incidence of calculated future costs. For proper funding, it is required that the Actuary select assumptions which are appropriate in light of the economic, demographic, and legislative environment as they relate to the pension program. The assumptions we have made concerning these future events are described more fully in Appendix 2 of this report. Based on these assumptions, a projection of future benefits was made and a current contribution level sufficient to provide the anticipated benefit payments was determined through the use of an actuarial cost method.

Selection of the Actuarial Cost Method

An actuarial cost method, sometimes called a "funding method", therefore, is essentially an approach to budgeting for the calculated future costs. There are many actuarial cost methods which are available to the actuary and each method operates differently. However, all funding methods accomplish the same objective—to assign to each fiscal year of the employer the portion assumed to have accrued in that year. The portion of the actuarial value of benefits assigned to a particular year in respect of an individual participant or the fund as a whole is called the **normal cost**. All funding methods are described by how the normal cost is calculated.

The actuarial cost method prescribed by the State statutes to determine the **statutorily minimum required contribution** for periods on or after January 1, 2011 is the Projected Unit Credit Cost Method. Under this actuarial cost method, the ongoing cost expressed as a percentage of total payroll will increase. In this method, the normal cost is determined by first calculating the projected dollar amount of each participant's accumulated benefit under the plan as of both the first day of the fiscal year and as of the last day of the fiscal year and then determining the difference between these two amounts. The second step in deriving the normal cost for a given participant is to multiply the dollar amount of this difference by the actuarial present value of \$1 of benefit.

The actuarial cost method selected by our firm to determine the **recommended plan contribution** is the Entry Age Normal Cost Method. Under this actuarial cost method, ideally, the ongoing cost expressed as a percentage of total payroll should remain fairly stable. In this method, the normal cost is determined by assuming each participant covered by the plan entered the plan under the same conditions that will apply to future plan entrants. The annual normal cost assigned to each year of an employee's career is calculated as a level percentage of the employees assumed earnings each year. These normal costs accumulate to the present value of the employee's benefit at retirement age.

**VALUATION OBJECTIVES
(Continued)**

Under both the Entry Age Normal Cost Method and the Projected Unit Credit Cost Method, the total funding of projected benefit costs is allocated between an *unfunded liability*, representing past benefit history, and future normal costs. This allocation is based on the assumption that the municipality will pay the normal cost for each plan year on a regular basis. It should be noted that although the term "unfunded liability" is applied to both funding methods, the resulting amount is different because of the method of calculation. Another feature of these methods is that only the unfunded liability is affected by the experience of the plan, and, therefore, any adjustments are made only in the future amortization payments.

In addition to the methodology changes described above, P.A. 96-1495 also addressed the valuation of pension fund assets—the second component in the determination of the unfunded liability. The statute now provides that the actuarial value of a pension fund's assets be set equal to the market value of the assets on March 30, 2011 and that, in determining the actuarial value of assets after that date, any actuarial gains or losses from investment returns incurred in a fiscal year be recognized in equal amounts over the 5-year period following that fiscal year.

The actuarial valuation process is usually repeated each year and is to a certain extent self-correcting. As part of these actuarial cost methods, any deviation of actual experience from the chosen actuarial assumptions will be reflected in future contributions. A complete description of these actuarial cost methods is explained in Appendix 4 of this report.

Despite the statutory language which requires an application of the Projected Unit Credit method, we feel that funding under this method as a *level percentage of payroll* severely undermines the benefit security of the retirement system and transfers the payment for currently earned pensions to future generations of taxpayers. For these reasons, our valuation report also presents a recommended minimum contribution that will operate to maintain the fundamental fiscal soundness of the retirement program, although a statutorily required contribution has also been calculated. The calculation of the recommended minimum contribution is based upon an amortization payment of 90% of any unfunded accrued liabilities as a *level dollar amount* over 30 years from January 1, 2011, the effective date of P.A. 96-1495. The calculation of the statutorily required contribution is based upon an amortization payment of 90% of any unfunded accrued liabilities as a *"level percentage of payroll"* over 30 years from January 1, 2011, the effective date of P.A. 96-1495.

Although, I do not agree with the statutorily required level percentage of payroll methodology of determining the amortization of the unfunded accrued liability, I would be remiss if I did not advise my funds as to a "statutorily" acceptable calculation under the State law.

Effective for periods beginning after June 15, 1996, the Governmental Accounting Standards Board has issued Statement No. 25 "Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans". This Statement establishes a financial reporting framework for defined benefit pension plans that distinguishes between two categories of information: (a) current financial information about plan assets and financial activities and (b) actuarially determined information, from a long-term perspective, about the funded status of the plan and the progress being made in accumulating sufficient assets to pay benefits when due. The calculation of the Annual Required Contribution (ARC) is described in paragraph 36f of the Statement and is based upon an amortization payment of any unfunded accrued liabilities as either a level dollar amount or a level percentage of total payroll over a maximum of 40 years from the effective date of the Statement. Any significant increase in the total unfunded actuarial liability resulting from a change in actuarial methodology should be amortized over a period not less than 10 years.

Actuarial experience since the last actuarial valuation

As part of the actuarial valuation process, it is helpful to examine the actual experience of the fund as compared to the experience that is expected by the actuarial assumptions. The measurement of any deviations of actual to expected experience is commonly referred to as a "Gain and Loss Analysis". In performing this analysis, the actuary analyzes each actuarial assumption used in the valuation process. It is highly unlikely that actual experience will follow expected experience on a year-by-year basis. It is hoped that over the long term, if the actuarial assumptions are "reasonable", the total gains and losses will offset each other.

A "gain and loss analysis" is a useful tool to examine whether the actuarial assumptions used to determine the municipal tax levy are suitable. Care must be taken in placing too much credibility in a short-term analysis as the assumptions are more appropriately measured over the long term. Nonetheless, an annual evaluation of the actuarial assumptions will assist in identifying trends that, if unnoticed, can lead to inappropriate conclusions. When these trends are recognized, it is the actuary's responsibility to modify one or more of the assumptions to better anticipate future experience.

**VALUATION OBJECTIVES
(Continued)**

"Some assumptions are easier to measure than others. In small plans, credible analysis can generally be made regarding the economic (financial) assumptions. These primarily include investment and salary increase assumptions. Unfortunately, it is often impossible to establish credible long term analysis of demographic assumptions (rates of termination, disability, retirement and mortality). Therefore, in choosing demographic assumptions, the actuary generally relies upon standardized tabular assumptions modified only by fund-specific characteristics.

The actuarial gain and loss analysis for the current year is presented in Exhibit 3-C and 3-D of the report. Exhibit 3-C shows the impact of the actuarial gains or losses on the recommended minimum contribution through a reconciliation of this contribution from the end of the prior valuation year to the end of the current valuation year. Exhibit 3-D derives the actuarial gain or loss in total as well as separating the individual financial and demographic components.

The overall experience gain (loss) for the year was \$ (2,002,182) or 3.00% of the accrued liability at the beginning of the plan year. The dollar amount for the plan's current **recommended minimum contribution** is 105.08% of the prior year's contribution. When measured as a percentage of payroll, the contribution level has changed from 53.30% to 55.61%.

However, please be advised that the prior year's contribution was substantially understated because of the overstatement of the valuation assets. Therefore, the contribution this year actually increased much less than indicated. The reported large loss this year is a direct result of the actual market investment loss and the assumptions in the aggregate are well within acceptable levels. See Exhibit 3D for specific information.

Thirty-year Projection of Liabilities

The final section of our report illustrates projected payments from the Trust Fund for a 30-year period commencing with the valuation date. These projections are based upon the actuarial assumptions selected for the fund concerning death, disability and retirement actually occurring. Care should be taken in interpreting or relying on these results-- particularly for Funds with fewer than 200 participants. The credibility of this type of projection is rarely realized beyond 10 years. Exhibit 5D presents this projection.

RESULTS OF VALUATION

The following exhibits present the results of our actuarial valuation of the **City of Moline Police Pension Fund** for the fiscal year January 1, 2013 through December 31, 2013.

Exhibit 1 indicates that the recommended minimum contribution, calculated using the Entry Age Normal Cost method (EANC), from the City is \$3,114,871 or 55.61% of total participating payroll. **Under the Entry Age Normal actuarial cost method selected, this percentage of payroll should remain reasonably level over the lifetime of the plan.**

Exhibit 1 also indicates that the statutory minimum contribution, calculated using the Projected Unit Credit method (PUC), from the City is \$2,498,484 or 44.61% of total participating payroll. **Under the Projected Unit Credit actuarial cost method selected, this percentage of payroll should increase over the lifetime of the plan.**

Exhibits 2 and 3 provide specific information used to develop the recommended minimum and statutorily required City contribution and GASB Annual Required Contribution (ARC).. The Annual Required Contribution as of January 1, 2013 has been determined under the Governmental Accounting Standards Board Statement No. 25 and is required disclosure for the fiscal year ending December 31, 2013. The Entry Age Normal Cost and the Actuarial Accrued Liability were determined using the Entry Age Normal Cost Actuarial Cost Method.

The Entry Age Normal Cost has been determined as a level percentage of projected payroll of the active members of the group. The amortization method for the Unfunded Actuarial Accrued Liability is determined as a level percentage of payroll amount over a closed Amortization Period as permitted in Governmental Accounting Standards Board Statement No. 25.

Contribution amounts presented in this report have not been adjusted for interest to the date of payment. All values were determined on the basis of the actuarial assumptions and methods as more fully described in Appendix 1 of this report.

Exhibit 4 presents a brief description of the demographic characteristics of the current member group.

Exhibit 5 shows information relating to the pension assets.

**GENERAL VALUATION RESULTS FOR FISCAL YEAR
JANUARY 1, 2013 THROUGH DECEMBER 31, 2013**

Recommended Minimum Contribution

1.	Entry Age Normal Cost:	\$ 1,155,256
2.	Unfunded Actuarial Accrued Liability (or Surplus):	34,519,965
3.	Actuarial Value of Assets:	32,154,576
4.	Annual Salaries of Active Police Officers:	5,385,509
5.	Recommended Minimum Contribution from the City:	3,114,871
	Contribution Percentage:	55.61%*

Statutory Minimum Contribution

1.	Projected Unit Credit Normal Cost:	\$ 1,492,188
2.	Unfunded Actuarial Accrued Liability (or Surplus):	30,962,286
3.	Actuarial Value of Assets:	32,154,576
4.	Annual Salaries of Active Police Officers:	5,385,509
5.	Statutory Minimum Contribution from the City:	2,498,484
	Contribution Percentage:	44.61%*

* Projected for the fiscal year ending December 31, 2013.

SUMMARY OF SPECIFIC VALUATION RESULTS

	<u>Number</u>	<u>Actuarial Present Value of Projected Benefits</u>	<u>Entry Age Normal Cost</u>	<u>Projected Unit Credit Normal Cost</u>
1. Active Police Officers:	81			
Retirement Pension:		\$28,824,499	\$794,355	\$1,177,183
Survivors Pension:		904,383	49,553	49,059
Disability Pension:		3,322,900	223,930	197,685
Withdrawal Pension:		893,614	87,418	68,261
	<u>81</u>	<u>\$33,945,396</u>	<u>\$1,155,256</u>	<u>\$1,492,188</u>
TOTAL	81	\$33,945,396	\$1,155,256	\$1,492,188
2. Inactive Police Officers and Survivors:				
Normal Retirees:	59	\$36,695,048		
Widows (Survivors):	13	2,797,740		
Children (Survivors):	0	0		
Disabled Retirees:	5	2,220,016		
Deferred Vested:	2	329,219		
Terminated/Separated:	2	114,801		
	<u>81</u>	<u>\$42,156,824</u>		
TOTAL	81	\$42,156,824		

**SUMMARY OF SPECIFIC VALUATION RESULTS
(Continued)**

	<u>Entry Age Normal (EAN)</u>	<u>Projected Unit Credit (PUC)</u>
3. Total Actuarial Present Value of Projected Benefits:	\$76,102,220	N/A
4. Actuarial Present Value of Future Normal Costs:	9,427,679	N/A
5. Actuarial Accrued Liability: [(3) - (4)]	66,674,541	63,116,862
6. Actuarial Value of Assets:	32,154,576	32,154,576
7. Unfunded Actuarial Accrued Liability (or Surplus) [(5) - (6)]	34,519,965	30,962,286
8. Funded Ratio Percentage: [(6) ÷ (5)] x 100	48.23%	50.94%

HISTORY OF FUNDED PERCENTAGES

<u>For the Year beginning January 1</u>	<u>Valuation Assets</u>	<u>EAN Accrued Liabilities</u>	<u>EAN Funded Percentage</u>	<u>PUC Accrued Liabilities</u>	<u>PUC Funded Percentage</u>
2013	\$32,154,576	\$66,674,541	48.23%	\$63,116,862	50.94%
2012	31,613,555	\$64,193,380	49.25	60,759,807	52.03
2011	30,638,486	61,190,730	49.93	57,859,699	52.80

DEVELOPMENT OF RECOMMENDED MINIMUM CITY CONTRIBUTION

	Fiscal Year January 1, 2013 through <u>December 31, 2013</u>
1. Entry Age Normal Cost:	\$1,155,256
2. Recommended Minimum Payment to Amortize 90 % of the Entry Age Normal Unfunded Accrued Liability <u>as a level dollar amount</u> over 27.99726 Years from January 1, 2013:	2,238,767
3. Interest on (1) and (2):	254,552
4. Credit for Surplus:	0
5. Total Recommended Minimum Contribution for Fiscal Year 2013: [(1) + (2) + (3) + (4)], but not less than Statutorily Required	3,648,575
6. Active Member Contributions (9.91% of Salaries):	533,704
7. Net Recommended Minimum City Contribution: [(5) - (6)]	3,114,871

DEVELOPMENT OF STATUTORILY REQUIRED CITY CONTRIBUTION
(NOTE THAT THIS CONTRIBUTION CALCULATION IS NOT RECOMMENDED)

	Fiscal Year January 1, 2013 through <u>December 31, 2013</u>
1. Projected Unit Credit Normal Cost:	\$1,492,188
2. Minimum Payment to Amortize 90% of the Projected Unit Credit Unfunded Accrued Liability <u>as a level percentage of payroll</u> over 27.99726 Years from January 1, 2013:	1,328,452
3. Interest on (1) and (2):	211,548
4. Credit for Surplus:	0
5. Total Statutorily Required Contribution for Fiscal Year 2013: [(1) + (2) + (3) + (4)]	3,032,188
6. Active Member Contributions (9.91% of Salaries):	533,704
7. Net Statutorily Required City Contribution: [(5) - (6)]	2,498,484

GASB STATEMENT NO. 25 DISCLOSURE INFORMATION

DEVELOPMENT OF THE ANNUAL REQUIRED CONTRIBUTION OF THE MUNICIPALITY

	Fiscal Year January 1, 2013 through <u>December 31, 2013</u>
1. Entry Age Normal Cost	\$1,155,256
2. Actuarial Accrued Liability	66,674,541
3. Actuarial Value of Assets	32,154,576
4. Unfunded Actuarial Accrued Liability	34,519,965
5. Payment to Amortize Unfunded Actuarial Accrued Liability Over 40 Years from Effective Date of Application of GASB 25 (20 years remaining)	2,359,746
6. Total Annual Required Contribution for Fiscal Year December 31, 2013: [(1) + (5)]	3,515,002
7. Active Member Contributions (9.91% of Salaries):	533,704
8. Annual Required Contribution (ARC) payable at the beginning of the current fiscal year: [(6) - (7)]	2,981,298

**RECONCILIATION OF THE CHANGE
IN THE RECOMMENDED MINIMUM CITY CONTRIBUTION**

1. Recommended Minimum Contribution for Year ending 12/31/2012:	\$2,964,364
2. Increase in Normal Cost and Amortization Payment due to anticipated pay changes:	113,139
3. Increase/(Decrease) in Normal Cost resulting from actual pay changes:	(22,159)
4. Effect of Asset Smoothing:	(26,317)
5. Increase/(Decrease) resulting from changes in assumptions:	0
6. Increase/(Decrease) resulting from other demographic and financial sources (retirements, deaths, new entrants, salary changes, etc.):	85,844
7. Recommended Minimum Contribution for Year ending December 31, 2013:	\$3,114,871

**DERIVATION OF EXPERIENCE GAIN(LOSS) AND COST METHOD CHANGE
AS OF JANUARY 1, 2013**

1.	EANC Unfunded Actuarial Accrued Liability at January 1, 2012:	\$32,579,825
2.	Entry Age Normal Cost Due at January 1, 2012:	1,170,726
3.	Interest on (1) and (2) to January 1, 2013 (at 7.50% per year):	2,531,291
4.	Contributions made for the prior year with interest to January 1, 2013:	3,764,059
5.	Expected EANC Unfunded Actuarial Accrued Liability at January 1, 2013 Before Assumption Changes [(1) + (2) + (3) - (4)]:	32,517,783
6.	Change in EANC Unfunded Actuarial Accrued Liability due to Assumptions Change at January 1, 2013:	0
7.	Expected EANC Unfunded Actuarial Accrued Liability at January 1, 2013 [(5) + (6)]:	32,517,783
8.	Actual EANC Unfunded Actuarial Accrued Liability at January 1, 2013:	34,519,965
9.	Gain (Loss) for the prior Plan Year [(7) - (8)]:	<u>\$ (2,002,182)</u>

The experience gain (loss) reported above is the net result of the following:

1.	<u>FINANCIAL SOURCES</u>	
	a) Investment experience (based upon market value of assets):	\$ (2,601,944)
	b) Contribution experience:	127,735
	c) Benefit Payments experience:	88,235
	d) Salary increases (greater)/lower than expected:	<u>175,691</u>
	Total from Financial Sources:	(2,210,283)
2.	<u>DEMOGRAPHIC SOURCES</u>	
	Mortality, retirement, disability, termination, etc.:	(475,744)
3.	<u>ACTUARIAL ADJUSTMENTS</u>	
	Market value adjustment for asset smoothing, including expenses	683,845
4.	<u>GAIN (LOSS) ALL SOURCES</u>	
	Total Gain (Loss) for the prior Plan Year [(1) + (2) + (3)]:	\$ (2,002,182)

SUMMARY OF DEMOGRAPHIC INFORMATION AS OF JANUARY 1, 2013

	<u>Number</u>	<u>Projected Annual Salaries (Fiscal Year 2013)</u>
Active Police Officers:	81	\$5,385,509

	<u>Number</u>	<u>Total Monthly Benefits</u>
Normal Retirees:	59	\$247,857
Survivors (Widows):	13	30,742
Survivors (Children):	0	0
Disabled Retirees:	5	10,791
Deferred Vested:	2	0
Terminated/Separated:	2	114,801 *

* Return of Contributions

The actuarial valuation was performed as of January 1, 2013 to determine contribution requirements for fiscal year 2013.

AGE AND SERVICE DISTRIBUTION

Attained Age	COMPLETED YEARS OF SERVICE										Total	Average Salaries
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+		
15-19											0	-
20-24		2									2	47,286
25-29	2	9	2								13	48,861
30-34	1	4	3	3							11	54,379
35-39		1	3	5	1						10	62,288
40-44			3	5	8						16	73,200
45-49				4	6	3	1				14	78,612
50-54				1	3	4	1				9	72,452
55-59				1	1	1	2	1			6	85,137
60-64											0	-
65+											0	-
TOTAL	3	16	11	19	19	8	4	1	0	0	81	66,488

Age = 40.13 Years

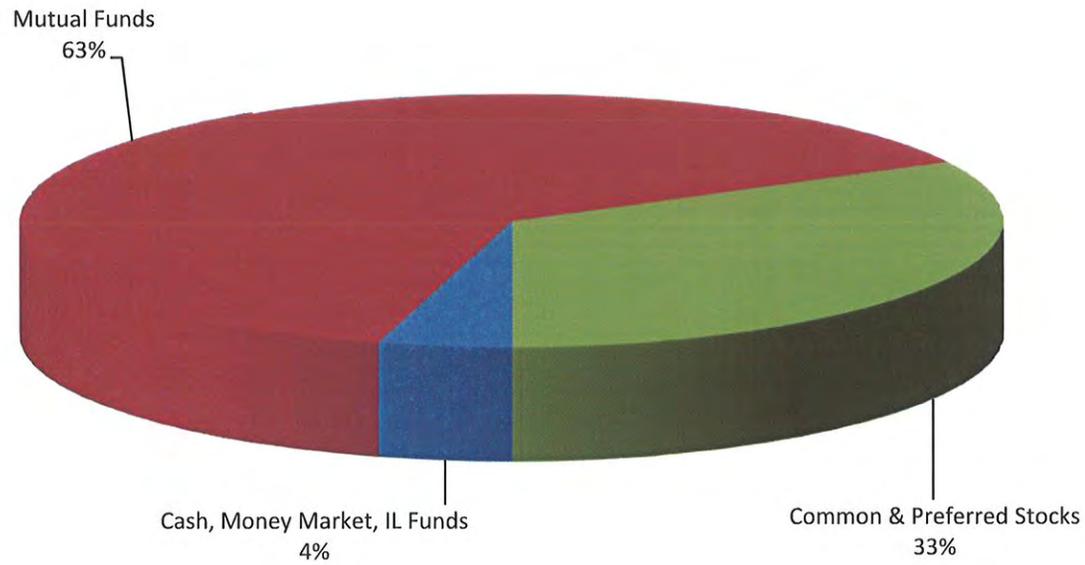
Service = 12.91 Years

ASSET INFORMATION

Cash, Money Market, IL Funds	\$1,280,093
Certificates of Deposit	0
State, Local and Corporate Obligations	0
U.S. Government and Agency Obligations	0
Insurance Company Contracts	0
Pooled Investment Accounts	0
Mutual Funds	18,452,092
Common & Preferred Stocks	9,556,945
Taxes Receivable	0
Accrued Interest	0
Other Receivables	0
Net Liabilities	0
Net Present Assets at Market Value	<u>\$29,289,130</u>

The chart on the following page shows the percentage of invested assets.

ASSET INFORMATION



DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

1.	Market Value of Assets, January 1, 2012**				\$ 29,431,954
2.	Actual Income and Disbursements in prior year weighted for timing				
		Amount	Timing	Weight for Amount	Weighted Amount
	Contributions Received During 2012	3,650,969		50.00%	1,825,485
	Miscellaneous Revenue	12,000		50.00%	6,000
	Benefit Payments and Expenses Made During 2012	3,420,344		(50.00)%	(1,710,172)
	Total				121,313
3.	Market Value of assets adjusted for actual income disbursements [(1) + 2(d)]				29,553,267
4.	Assumed rate of return on plan assets for the year				7.50%
5.	Expected return on assets [(3) x (4)]				2,216,495
6.	Market Value of Assets, January 1, 2012				29,431,954
7.	Income (less investment income) for prior year				3,650,969
8.	Disbursements paid in prior year				3,420,344
9.	Market Value of Assets, January 1, 2013				\$29,289,130
10.	Actual Return [(9) + (8) - (7) - (6)]				(385,449)
11.	Investment Gain/(Loss) for Prior Year [(10) - (5)]				(2,601,944)

**DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS
(Continued)**

12.	Market Value of Assets, January 1, 2013:			\$29,289,130
13.	Deferred investment gains and (losses) for last 4 years:			
		Plan Year Beginning	Gain/(Loss)	Percent Deferred
				Deferred Amount
a)		2013**	\$ (2,601,944)	80%
b)		2012	\$ (1,459,829)	60%
c)		2011	\$ 581,084	40%
d)		2010	\$ (702,137)	20%
e)		Total	\$ (4,182,826)	
14.	Actuarial value of plan assets for funding,, January 1, 2013: Item (12) less item 13(e):			\$ 32,154,576
15.	Taxes receivable:			0
16.	Actuarial value of plan assets for GASB reporting January 1, 2013 item (14) less item (15)*:			\$ 32,154,576

Notes: * excluding taxes receivable

**The calculated value is determined by adjusting the market value of assets to reflect investment gains and losses (the difference between the actual investment return and the expected investment return) during each of the last five years at the rate of 20% per year.

ANALYSIS OF INVESTMENT RETURN

<u>Fiscal Year</u> <u>Ending</u>	<u>Annual Rate</u> <u>of Return</u>
2012	10.22%
2011	2.53
2010	9.23
2009	4.30
2008	-11.54
2007	7.46
2006	7.30
2005	4.55
<u>Composite</u>	
2005-2012	4.04%

THIRTY - YEAR PROJECTION OF PAYMENTS

Year	-----Payouts from Active Group Upon-----			-----Payouts from-----			Total	
	-----Termination-----		Death	Retirement	Disability	Retired Group		Deferred Pensioners
	Lump Sum	Deferred Pension						
2013	14,021	0	18,085	126,097	23,510	3,472,694	114,801	3,769,208
2014	15,362	0	24,572	282,528	46,066	3,435,122	0	3,803,650
2015	10,372	0	25,662	428,842	68,428	3,399,083	0	3,932,387
2016	8,732	0	32,559	570,776	90,575	3,360,120	0	4,062,762
2017	3,912	0	39,946	756,271	112,429	3,319,506	0	4,232,064
2018	2,026	0	45,966	955,061	132,969	3,293,491	0	4,429,513
2019	1,241	0	52,944	1,174,178	153,282	3,262,464	24,912	4,669,021
2020	0	0	58,325	1,402,674	173,484	3,214,861	25,424	4,874,768
2021	0	0	65,107	1,621,053	192,937	3,163,819	25,915	5,068,831
2022	0	0	70,044	1,806,120	211,644	3,108,658	26,381	5,222,847
2023	0	0	76,119	1,971,519	229,641	3,048,979	26,814	5,353,072
2024	0	0	80,648	2,162,236	246,669	2,997,785	27,211	5,514,549
2025	0	0	85,898	2,321,246	262,897	2,943,137	45,136	5,658,314
2026	0	0	89,642	2,475,132	278,853	2,867,322	45,799	5,756,748
2027	0	0	94,168	2,641,673	295,079	2,784,142	46,395	5,861,457
2028	0	0	97,309	2,821,576	314,341	2,693,111	46,913	5,973,250
2029	0	0	101,209	2,994,860	331,715	2,593,695	47,341	6,068,820
2030	0	0	103,724	3,139,158	349,719	2,485,619	47,662	6,125,882
2031	0	0	106,800	3,264,076	368,650	2,368,820	47,875	6,156,221
2032	0	0	108,356	3,395,136	385,236	2,243,718	47,943	6,180,389
2033	0	0	110,569	3,536,310	398,154	2,129,935	47,860	6,222,828
2034	0	0	111,040	3,704,569	412,294	1,991,333	47,611	6,266,847
2035	0	0	112,568	3,821,759	421,471	1,847,687	47,181	6,250,666
2036	0	0	112,251	3,941,014	431,614	1,700,757	46,550	6,232,186
2037	0	0	112,758	4,052,684	445,652	1,552,289	45,712	6,209,095
2038	0	0	111,709	4,159,270	456,970	1,404,166	44,657	6,176,772
2039	0	0	111,376	4,228,086	464,630	1,258,457	43,373	6,105,922
2040	0	0	108,985	4,264,990	469,381	1,116,986	41,855	6,002,197
2041	0	0	107,618	4,284,640	470,755	981,559	40,087	5,884,659
2042	0	0	104,760	4,284,187	472,488	853,725	38,079	5,753,239

ACTUARIAL ASSUMPTIONS

(Economic)

Investment Return

7.50% per annum, compounded annually (net of expenses).

Salary Increases

Representative values of assumed salary increases are as follows:

<u>Age</u>	<u>Increase %</u>
25	4.8611
30	2.9848
35	2.0341
40	1.5239
45	1.3083
50	1.1846
55	1.1220

An additional inflation allowance of 2.00% per year is added to the above.

Payroll Growth

It was assumed that payroll will grow 4.00% per year.

Cost of Living Adjustments

It was assumed that the Consumer Price Index – Urban (CPI-U) would increase 2.00% per year

Actuarial Asset Basis

The actuarial value of assets recognizes future gains and losses based on a 5-year smoothed market method as prescribed by Statute

In a 5-year smoothed market method, the current market value of assets is reduced (increased) for the current year and each of three succeeding years, by a portion of the gain/(loss) in market value during the prior year. Such gain/(loss) is determined as the excess/(deficit) of the current market value of assets over the market value of assets as of the prior year, increased to reflect interest at the actuarial rate and adjusted to reflect contributions and benefit payments during the prior year. The portion of such gain/(loss) by which the current market value of assets is reduced (increased) shall be 80% in the current year, 60% in the first succeeding year, 40% in the second succeeding year and 20% in the third succeeding year.

Additionally, in accordance with government accounting standards, the actuarial value of assets is adjusted to remove any contributions receivable on the reporting date.

Expenses

None assumed.

(Demographic)

Mortality

Active Lives

RP-2000 Combined Healthy Mortality Table (male) with blue collar adjustment and with a 200% load for participants under age 50 and 125% for participants age 50 and over. Five percent (5%) of deaths amongst active police officers are assumed to be in the performance of their duty.

Non-Active Lives

RP-2000 Combined Healthy Mortality Table (male) with blue collar adjustment and with a 200% load for participants under age 50 and 125% for participants age 50 and over.

Termination

Illustrative rates of withdrawal from the plan for reasons other than death or disability are as follows:

<u>Age</u>	<u>Rate of Withdrawal</u>
25	.0734
30	.0416
35	.0223
40	.0119
45	.0102

It is assumed that terminated police officers will not be rehired.

Disability Rates

Incidence of disability amongst police officers eligible for disability benefits:

<u>Age</u>	<u>Rate</u>
25	.0013
30	.0026
35	.0044
40	.0071
45	.0108
50	.0159

15% of disabilities amongst active police officers are assumed to be in the performance of their duty.

Retirement Rates

Retirements are assumed to occur between the ages of 50 and 69 in accordance with the following table:

<u>Age</u>	<u>Rate of Retirement</u>	<u>Age</u>	<u>Rate of Retirement</u>
50	.36	60	.22
51	.22	61	.30
52	.18	62	.39
53	.19	63	.48
54	.19	64	.57
55	.20	65	.65
56	.20	66	.74
57	.20	67	.83
58	.21	68	.91
59	.21	69	1.00

(Additional)

Marital Status

85% of police officers are assumed to be married.

Spouse's Age

Wives are assumed to be 3 years younger than their husbands.

Actuarial Cost Method:

Projected Unit Credit for statutory minimum

Entry Age Normal for recommended and GASB reporting

SUMMARY OF PRINCIPAL PLAN PROVISIONS

Definitions

Tier 1 – For Police Officers first entering Article 3 prior to January 1, 2011

Tier 2 – For Police Officers first entering Article 3 after December 31, 2010

Police Officer (3-106): Any person appointed to the police force and sworn and commissioned to perform police duties.

Persons excluded from Fund (3-109): Part-time officers, special police officer, night watchmen, traffic guards, clerks and civilian employees of the department. Also, police officers who fail to pay the required fund contributions or who elect the Self-Managed Plan option.

Creditable Service (3-110): Time served by a police officer, excluding furloughs in excess of 30 days, but including leaves of absences for illness or accident and periods of disability where no disability pension payments have been received and also including up to 3 years during which disability payments have been received provided contributions are made.

Pension (3-111)

Normal Pension Age

Tier 1 - Age 50 with 20 or more years of creditable service.

Tier 2 - Age 55 with 10 or more years of creditable service.

Normal Pension Amount

Tier 1 - 50% of the greater of the annual salary held in the year preceding retirement or the annual salary held on the last day of service, plus 2½% of such annual salary for service from 20 to 30 year (maximum 25%).

Tier 2 - 2½% of Final Average salary for each year of service. Final Average Salary is the highest salary based on the highest consecutive 96 months of the final 120 months of service

Early Retirement at age 50 with 10 or more years of service but with a penalty of ½% for each month prior to age 55.

Annual Salary capped at \$106,800 increased yearly by the lesser of ½ of the Consumer Price Index- Urban (CPI-U) or 3%. Salary for valuations beginning in 2013 is \$109,971.43.

Minimum Monthly Benefit: \$1,000

Maximum Benefit Percentage: 75% of salary

Termination Retirement Pension Date

Separation of service after completion of between 8 and 20 years of creditable service.

Termination Pension Amount

Commencing at age 60, 2½% of annual salary held in the year preceding termination times years of creditable service or refund of contributions, or for persons terminating on or after July 1, 1987, 2½% of annual salary held on the last day of service times years of credible service, whichever is greater.

Pension Increase

Non-Disabled

Tier 1 - 3% increase of the original pension amount after attainment of age 55 for each year elapsed since retirement, followed by an additional 3% of the original pension amount on each January 1 thereafter. Effective July 1, 1993, 3% of the amount of pension payable at the time of the increase including increases previously granted, rather than 3% of the originally granted pension amount.

**SUMMARY OF PRINCIPAL PLAN PROVISIONS
(Continued)**

Tier 2 - The lesser of ½ of the Consumer Price Index- Urban (CPI-U) or 3% increase of the original pension amount after attainment of age 60, followed by an additional 3% of the original pension amount on each January 1 thereafter.

Disabled

3% increase of the original pension amount after attainment of age 60 for each year he or she received pension payments, followed by an additional 3% of the original pension amount in each January 1 thereafter.

Pension to Survivors (3-112)

Death of Retired Member

Tier 1 - 100% of pension amount to surviving spouse (or dependent children).

Tier 2 - 66 2/3% of pension amount to surviving spouse (or dependent children), subject to the following increase: the lesser of ½ of the Consumer Price Index- Urban (CPI-U) or 3% increase of the original pension amount after attainment of age 60, followed by an additional 3% of the original pension amount on each January 1 thereafter.

Death While in Service (Not in line of duty)

With 20 years of creditable service, the pension amount earned as of the date of death.

With between 10 and 20 years of creditable service, 50% of the salary attached to the rank for the year prior to the date of death.

Death in Line of Duty

100% of the salary attached to the rank for the last day of service year prior to date of death.

Minimum Survivor Pension

\$1,000 per month to all surviving spouses.

Disability Pension - Line of Duty (3-114.1)

Eligibility

Suspension or retirement from police service due to sickness, accident or injury while on duty.

Pension

Greater of 65% of salary attached to rank at date of suspension or retirement and the retirement pension available. Minimum \$1,000 per month.

Disability Pension - Not on Duty (3-114.2)

Eligibility

Suspension or retirement from police service for any cause other than while on duty.

Pension

50% of salary attached to rank at date of suspension or retirement. Minimum \$1,000 per month.

Other Provisions

Marriage After Retirement (3-120)

No surviving spouse benefit available.

Refund (3-124)

At death prior to completion of 10 years of service, contributions are returned without interest to widow.

At termination with less than 20 years of service, contributions are refunded upon request.

Contributions by Police Officers (3-125.1)

Beginning January 1, 2001, 9.91% of salary including longevity, but excluding overtime pay, holiday pay, bonus pay, merit pay or other cash benefit.

GLOSSARY

Actuarial Accrued Liability

See *Entry Age Normal Cost Method* and *Projected Unit Credit Cost Method*.

Actuarial Assumptions

The economic and demographic predictions used to estimate the present value of the plan's future obligations. They include estimates of investment earnings, salary increases, mortality, withdrawal and other related items. The *Actuarial Assumptions* are used in connection with the *Actuarial Cost Method* to allocate plan costs over the working lifetimes of plan participants.

Actuarial Cost Method

The method used to allocate the projected obligations of the plan over the working lifetimes of the plan participants. Also referred to as an *Actuarial Funding Method*.

Actuarial Funding Method

See *Actuarial Cost Method*

Actuarial Gain (Loss)

The excess of the actual *Unfunded Actuarial Accrued Liability* over the expected *Unfunded Actuarial Accrued Liability* represents an *Actuarial Loss*. If the expected *Unfunded Actuarial Accrued Liability* is greater, an *Actuarial Gain* has occurred.

Actuarial Present Value

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of *Actuarial Assumptions*.

Actuarial Value of Assets

The asset value derived by using the plan's *Asset Valuation Method*.

Asset Valuation Method

A valuation method designed to smooth random fluctuations in asset values. The objective underlying the use of an asset valuation method is to provide for the long-term stability of employer contributions.

Employee Retirement Income Security Act of 1974 (ERISA)

The primary federal legislative act establishing funding, participation, vesting, benefit accrual, reporting, and disclosure standards for pension and welfare plans.

Entry Age Normal Cost Method

One of the standard actuarial funding methods in which the *Present Value of Projected Plan Benefits* of each individual included in the *Actuarial Valuation* is allocated on a level basis over the earnings of the individual between entry age and assumed exit age(s). The portion of this *Actuarial Present Value* allocated to a valuation year is called the *Normal Cost*. The portion of this *Actuarial Present Value* not provided for at a valuation date by the *Actuarial Present Value* of future *Normal Costs* is called the *Actuarial Accrued Liability*.

Normal Cost

The portion of the *Present Value of Projected Plan Benefits* that is allocated to a particular plan year by the *Actuarial Cost Method*. See *Entry Age Normal Cost Method* for a description of the Normal Cost under the *Entry Age Normal Cost Method*. See *Projected Unit Credit Cost Method* for a description of the Normal Cost under the *Projected Unit Credit Cost Method*.

Present Value of Future Normal Costs

The present value of future normal costs determined based on the *Actuarial Cost Method* for the plan. Under the *Entry Age Normal Cost Method*, this amount is equal to the excess of the *Present Value of Projected Plan Benefits* over the sum of the *Actuarial Value of Assets* and *Unfunded Actuarial Accrued Liability*.

Present Value of Projected Plan Benefits

The present value of future plan benefits reflecting projected credited service and salaries. The present value is determined based on the plan's actuarial assumptions.

GLOSSARY
(Continued)

Projected Unit Credit Cost Method

One of the standard actuarial funding methods in which the *Present Value of Projected Plan Benefits* of each individual included in the *Actuarial Valuation* is allocated by a consistent formula to valuation years. The *Actuarial Present Value* allocated to a valuation year is called the *Normal Cost*. The *Actuarial Present Value* of benefits allocated to all periods prior to a valuation year is called the *Actuarial Accrued Liability*.

Statement No. 25 of the Governmental Accounting Standards Board (GASB No. 25)

The accounting statement that established the standards of financial accounting and reporting for the financial statements of defined benefit pension plans.

Unfunded Actuarial Accrued Liability

The excess of the *Actuarial Accrued Liability* over the *Actuarial Value of Assets*.

City of Moline

Employer Contributions to IMRF, Police and Fire Pension Plans

Year	IMRF	Police	Fire	Total
1985	\$1,729,539	\$614,800	\$827,431	\$3,171,770
1986	\$1,796,167	\$606,613	\$820,697	\$3,223,477
1987	\$1,790,146	\$558,497	\$697,389	\$3,046,032
1988	\$1,773,757	\$630,180	\$802,230	\$3,206,167
1989	\$1,844,155	\$125,891	\$277,361	\$2,247,407
1990	\$699,929	\$68,924	\$302,062	\$1,070,915
1991	\$892,281	\$177,991	\$391,568	\$1,461,840
1992	\$1,138,927	\$186,786	\$406,479	\$1,732,192
1993	\$1,226,970	\$320,753	\$553,640	\$2,101,363
1994	\$912,004	\$364,996	\$571,266	\$1,848,266
1995	\$931,019	\$399,116	\$688,303	\$2,018,438
1996	\$846,707	\$446,612	\$753,477	\$2,046,796
1997	\$858,986	\$578,683	\$871,239	\$2,308,908
1998	\$803,056	\$752,734	\$926,518	\$2,482,308
1999	\$742,053	\$697,710	\$818,110	\$2,257,873
2000	\$658,969	\$452,846	\$561,447	\$1,673,262
2001	\$451,344	\$416,469	\$629,020	\$1,496,833
2002	\$112,717	\$520,355	\$680,576	\$1,313,648
2003	\$105,646	\$546,988	\$658,216	\$1,310,850
2004	\$119,230	\$965,413	\$1,185,410	\$2,270,053
2005	\$120,874	\$955,823	\$1,162,068	\$2,238,765
2006	\$886,240	\$1,044,899	\$1,229,564	\$3,160,703
2007	\$818,698	\$1,171,109	\$1,337,039	\$3,326,846
2008	\$780,450	\$1,291,059	\$1,528,017	\$3,599,526
2009	\$695,023	\$1,448,891	\$1,718,452	\$3,862,366
2010	\$1,265,833	\$2,094,552	\$2,328,594	\$5,688,979
2011	\$1,421,796	\$2,280,805	\$2,679,017	\$6,381,618
2012	\$1,747,486	\$3,076,829	\$3,007,810	\$7,832,125
2013	\$1,747,486	\$2,964,365	\$3,279,525	\$7,991,376

NOTE: prior to 1990, the IMRF contributions included Moline Public Hospital employees. They merged with Lutheran Hospital and became known as United Medical Center and were no longer part of the City.

New actuarial assumptions adopted by IMRF were effective in 1991.



ELECTRIC PUMP

4280 E 14th Street
Des Moines Iowa 50313
800-383-7867
Fax: 515-265-8079

June 4, 2013

Revised: removed hoist and added hatch

Project: 64th St Pump Station
Location: Moline IL
Engineer: Missman , Inc.
Attention: Scott Kammerman
Email: scottk@missman.com
Phone: 309-283-1583

Regarding the above project, Electric Pump is pleased to submit this proposal for the following equipment.

Section 11312 Submersible Centrifugal Pumps

Two (2) Flygt submersible pump model CP3127 433 impeller. This pump will deliver appx 502 gpm @ 30TDH, at 1740 rpm. An air filled 7.5 hp, 460-volt, 3 phase Explosion Proof motor will drive the pump. FLS and 50' of cable included. The impeller will be Class 35B gray cast iron, dynamically balanced throughout. Standard Flygt paint.

Accessories:

Two (2) 6" **Discharge Elbow (Eccentric reducer if required is by the contractor)**
Four (4) 2" SS guide rail (**based on max station depth of 21 ft**)
Two (2) 2" SS upper guide bar bracket (**standard bracket only**)
Two (2) 2" x 6" SS intermediate guide bar bracket (**hooks to Discharge pipe Only**)
One (1) SS Cable holder
Two (2) SS Chain assembly for lifting
One (1) Grip for above chain
Two (2) Module for thermal and moisture monitoring (will be in panel)
Two (2) Floats for back up
One (1) Duplex Control panel: Nema3R 304SS enclosure, wall mount, Aluminum inner door, 30mm oiltight pilot lights & switches, 3KVA control power transformer, strip heater, Fused phase monitor, Duplex GFI receptacle, MultiSmart controller & Probe, Modbus, Flo calc, MTISB barrier, Probe for level sensing, Submeg, Time meter for each pump, Time meter for simultaneous run time, Pump "Called" pilot lights for each pump, HOA switch for each pump, Square D breakers and starters, MOSF for seal fail/temp, Sensaphone 400 alarm dialer, Dry contacts for alarm conditions, Inner door mounted high level pilot light with "dim glow" feature during Normal conditions, bright flash during

alarm conditions, Audible alarm horn with inner door mounted Silence pushbutton, Inner door mounted float backup "Enable/Disable" switch

Exception taken to 24vac control circuitry.

Two (2) SS nameplate for each pump

One (1) Aluminum access hatch, double door, 36 x 54 clear opening, Safety Grating

One (1) Aluminum access hatch, single door, 30 x 48 clear opening, Safety Grating

Total Quote: \$ 47,567.00

This price does not include tax.

Price does include Start up and freight.

Note:

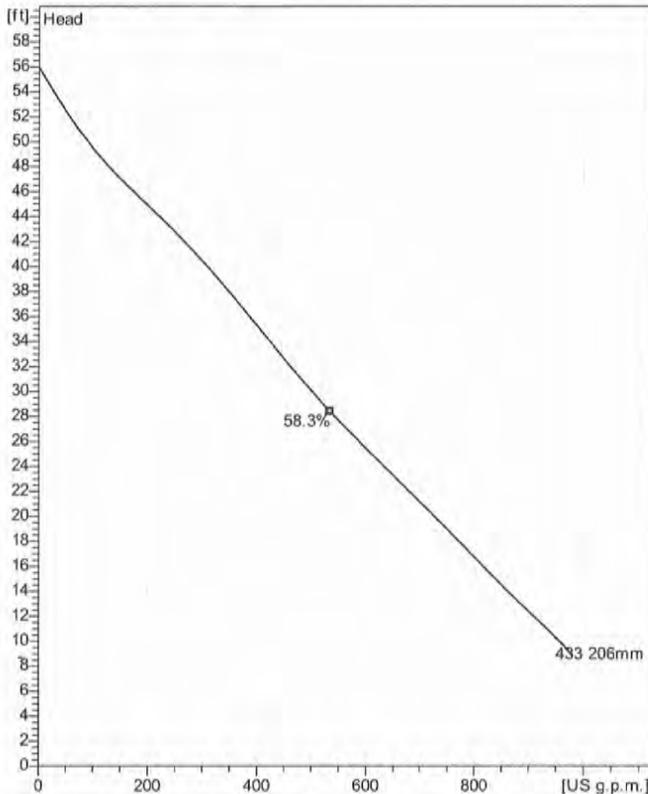
Anchor Bolts, Junction Box, Valves, Gauges, Piping and anything not specifically mentioned in the above quote will be by the contractor. This quotation is based on our interpretation of the plans and specifications received at time of this proposal. This quote includes only material and services listed, and is subject to the correction of errors due to vague specifications. Deviation from our proposal, either official or otherwise, shall modify these prices.

If you have any questions or concerns, please feel free to call at 1-800-383-7867. Thank you for your consideration.

Sincerely,

Steve McIntyre

CP 3127 MT 3~ 433
Technical specification



Curve according to: ISO 9906 grade 2 annex 1 or 2



Note: Picture might not correspond to the current configuration.

General

Shrouded single or multi-channel impeller pumps with large throughlets and single volute pump casing for liquids containing solids and fibres. Cast iron design with double sealing technology. Some models available as stainless steel versions.

Impeller

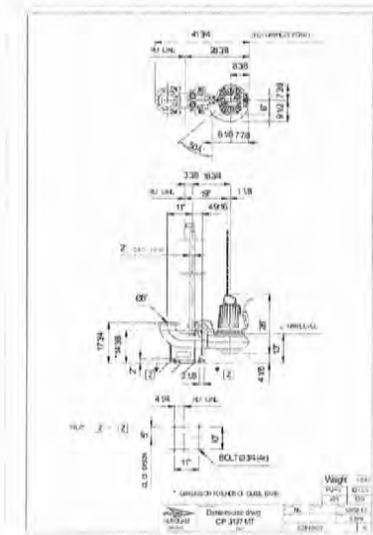
Impeller material	Grey cast iron
Outlet width	5 7/8 inch
Inlet diameter	150 mm
Impeller diameter	206 mm
Number of blades	1
Throughlet diameter	3 15/16 inch

Motor

Motor #	C3127.090 21-10-4AL-W 7.5hp
Stator variant	12
Frequency	60 Hz
Rated voltage	460 V
Number of poles	4
Phases	3~
Rated power	7.5 hp
Rated current	9.6 A
Starting current	52 A
Rated speed	1740 rpm
Power factor	
1/1 Load	0.88
3/4 Load	0.85
1/2 Load	0.77
Efficiency	
1/1 Load	83.5 %
3/4 Load	84.5 %
1/2 Load	83.5 %

Configuration

Installation: P - Semi permanent, Wet



CP 3127 MT 3~ 433



Performance curve

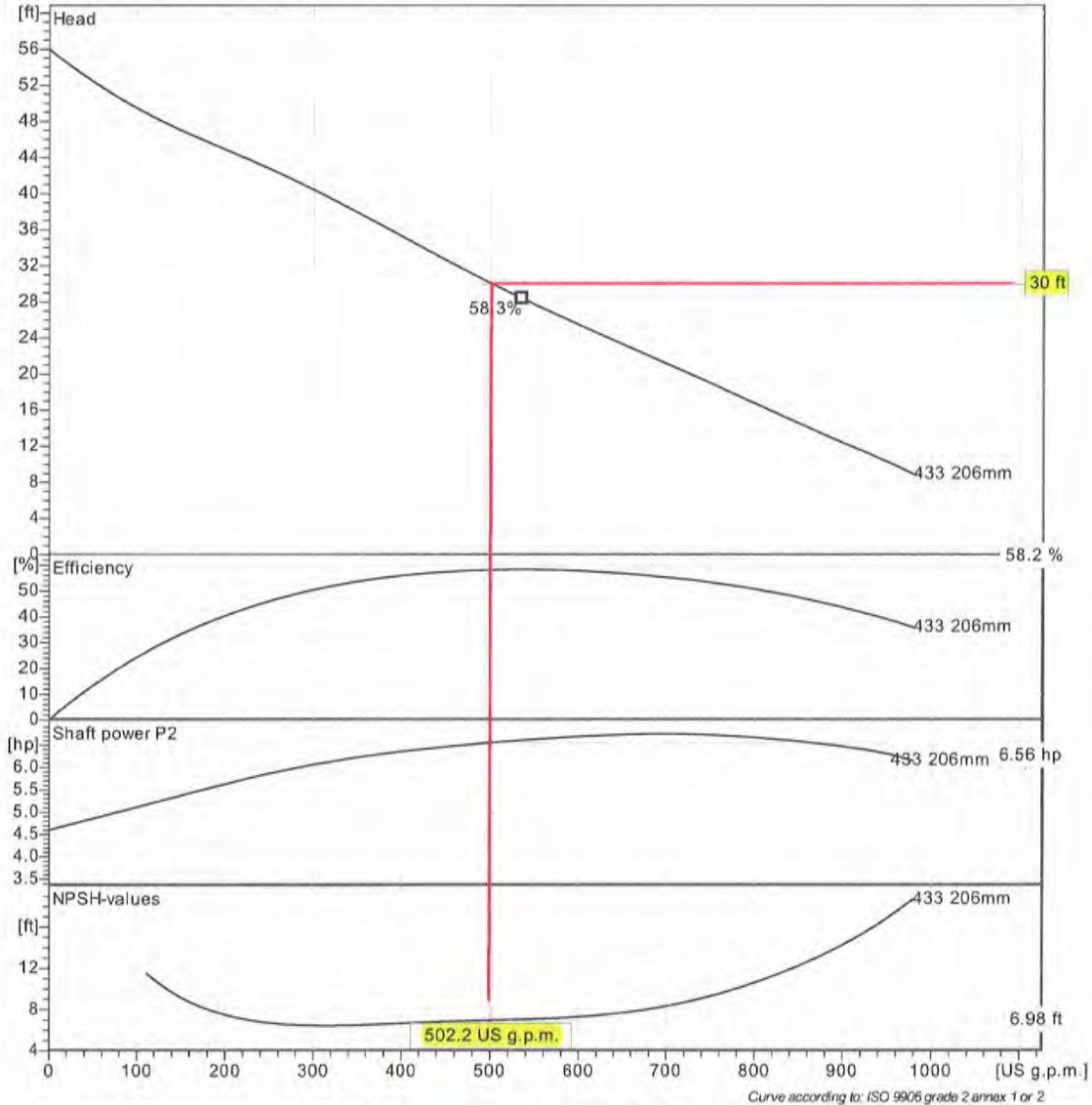
Pump

Outlet width 5 7/8 inch
Inlet diameter 150 mm
Impeller diameter 8 1/2"
Number of blades 1
Throughlet diameter 3 15/16 inch

Motor

Motor # **C3127.090 21-10-4AL-W 7.5hp**
Stator variant 12
Frequency 60 Hz
Rated voltage **460 V**
Number of poles 4
Phases 3~
Rated power **7.5 hp**
Rated current 9.6 A
Starting current 52 A
Rated speed 1740 rpm

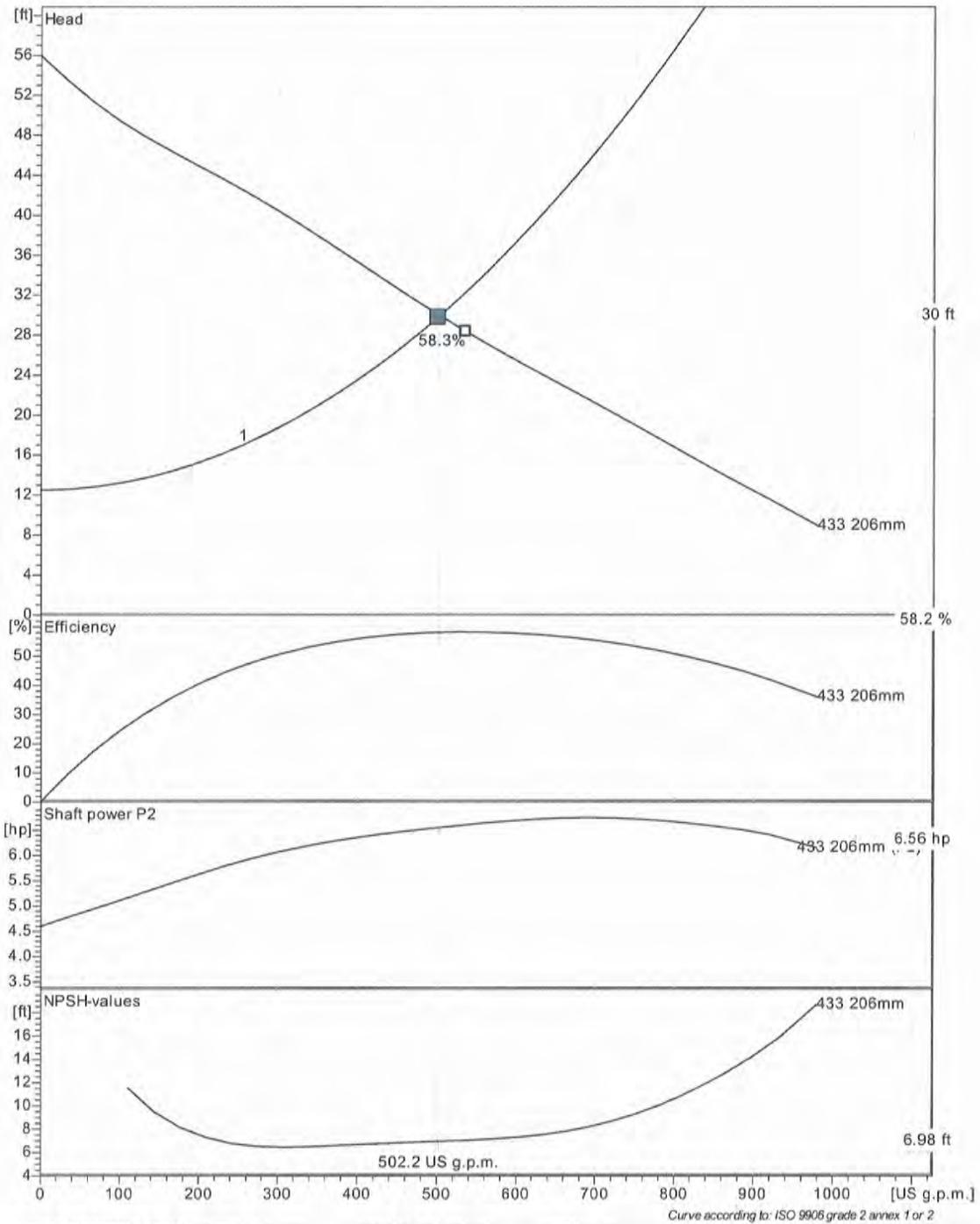
Power factor
1/1 Load 0.88
3/4 Load 0.85
1/2 Load 0.77
Efficiency
1/1 Load 83.5 %
3/4 Load 84.5 %
1/2 Load 83.5 %



Duty point		Guarantee			
Flow	Head	Shaft power	NPSHre	Hyd. eff.	ISO_9906_Grade_2
500 US g.p.m.	29.8 ft	<6.79 hp	7.32 ft	58 %	Yes

Project	Project ID	Created by	Created on	Last update
			2013-06-04	

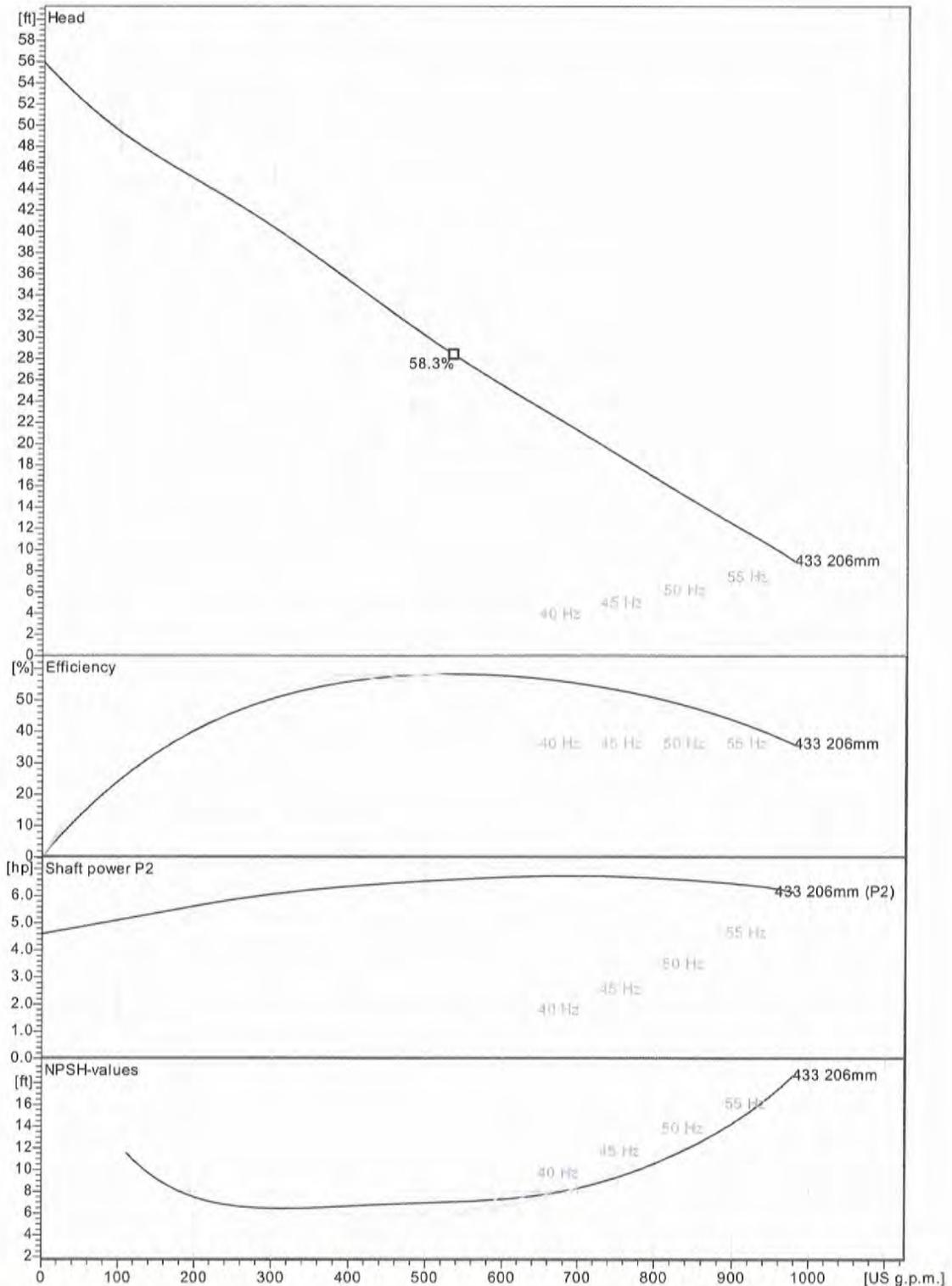
CP 3127 MT 3~ 433
Duty Analysis



Pumps running /System	Individual pump			Total					
	Flow	Head	Shaft power	Flow	Head	Shaft power	Hyd. eff.	Specific energy	NPSHre
1	502 US g.p.m.	30 ft	6.56 hp	502 US g.p.m.	30 ft	6.56 hp	58.2%	192 kWh/US MG	6.98 ft

Project	Project ID	Created by	Created on 2013-06-04	Last update
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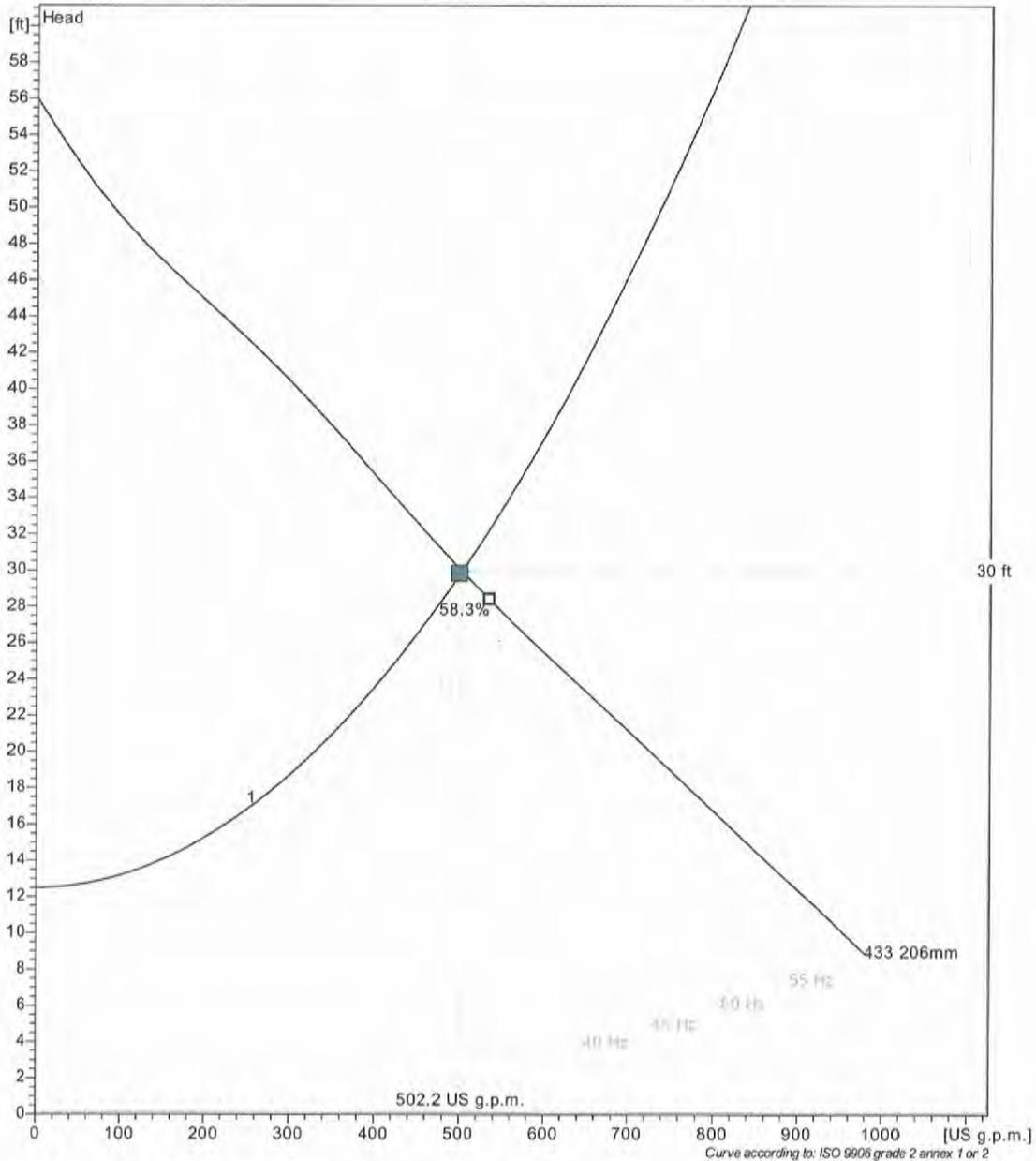
CP 3127 MT 3~ 433
VFD Curve



Curve according to: ISO 9906 grade 2 annex 1 or 2

Project	Project ID	Created by	Created on 2013-06-04	Last update
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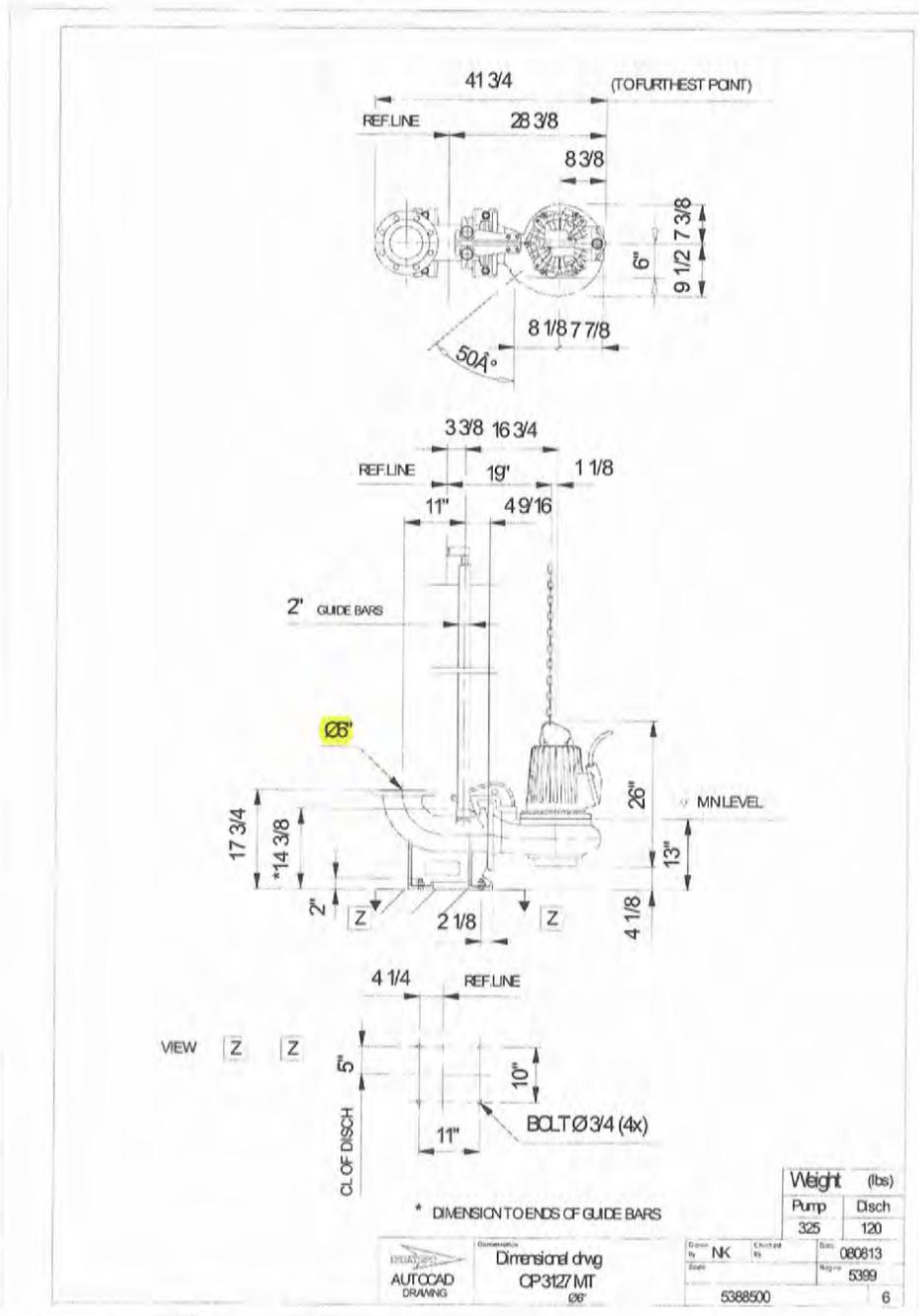
CP 3127 MT 3~ 433
VFD Analysis



Pumps running /System	Individual pump			Total						
	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hyd. eff.	Specific energy	NPSHr
1	60 Hz	502 US g.p.m.	30 ft	6.56 hp	502 US g.p.m.	30 ft	6.56 hp	58.2 %	192 kWh/US MG	6.98 ft
1	55 Hz	437 US g.p.m.	25.7 ft	4.9 hp	437 US g.p.m.	25.7 ft	4.9 hp	57.9 %	165 kWh/US MG	5.95 ft
1	50 Hz	374 US g.p.m.	22.2 ft	3.66 hp	374 US g.p.m.	22.2 ft	3.66 hp	57.5 %	145 kWh/US MG	5.05 ft
1	45 Hz	309 US g.p.m.	19.1 ft	2.63 hp	309 US g.p.m.	19.1 ft	2.63 hp	56.5 %	131 kWh/US MG	4.19 ft
1	40 Hz	237 US g.p.m.	16.4 ft	1.81 hp	237 US g.p.m.	16.4 ft	1.81 hp	54.1 %	125 kWh/US MG	3.37 ft

Project	Project ID	Created by	Created on 2013-06-04	Last update
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CP 3127 MT 3~ 433
Dimensional drawing



Project

Project ID

Created by

Created on
2013-06-04

Last update

2014

	CIP	Utility Tax	Water	WPC	Storm	MFT	Total	Notes
REVENUES	4,830,000	2,370,000	1,330,000	2,110,000	595,000	1,050,000	12,285,000	
Sidewalk 72/25	20,000						20,000	
Transfer from Reserves	220,000						220,000	
Total Available	5,070,000	2,370,000	1,330,000	2,110,000	595,000	1,050,000	12,525,000	
EXPENDITURES								
Debt Service	3,060,000						3,060,000	
Project Design / Inspection	270,000						270,000	3 Techs
Maintenance Projects								
Patching Program	1,000,000		230,000	130,000			1,360,000	
Pavement Marking	150,000						150,000	
Sidewalk 75/25	80,000						80,000	
ADA Sidewalk Compliance	50,000						50,000	
Street Projects								
<u>Asphalt Overlays</u>								
<u>Concrete Reconstructions</u>								
48th Street, 23rd - 26th Avenues	460,000		310,000	360,000	120,000		1,250,000	Water, Storm, Seal Coat
John Deere Road Widening			330,000	220,000		345,000	895,000	IDOT Project
<u>I-74 Bridge</u>								
16" Watermain Relocation		80,000	300,000				380,000	IDOT Project
36" Interceptor Relocation		200,000		900,000			1,100,000	IDOT Project
Multi-Modal Station			160,000	260,000	350,000	585,000	1,355,000	IDOT Project
Deere House Retaining Wall		525,000					525,000	Council Goal
Riverside Cemetery Retaining Wall		350,000					350,000	Council Goal
Sylvan Island Bridge		1,215,000					1,215,000	Council Goal
32nd Ave Sanitary, East of 53rd St				105,000			105,000	WPC Project
Sewer Lining				135,000	50,000		185,000	
15th Street Storm Sewer By-Pass					75,000		75,000	Storm Project
Transfer to Reserves						120,000	120,000	
Total Expenditures	5,070,000	2,370,000	1,330,000	2,110,000	595,000	1,050,000	12,525,000	

2016

	CIP	Utility Tax	Water	WPC	Storm	MFT	Grant	Total	Notes
REVENUES	4,925,000	2,415,000	1,230,000	1,380,000	425,000	1,150,000	1,288,290	12,813,290	
Sidewalk 75/25	20,000							20,000	
Transfer from Reserves	164,500	132,000	30,000					326,500	
Total Available	5,109,500	2,547,000	1,260,000	1,380,000	425,000	1,150,000	1,288,290	13,159,790	
EXPENDITURES									
Debt Service	3,100,000							3,100,000	
Temporary Technical Assist	64,500			10,000	10,000			84,500	
Project Design / Inspection	285,000							285,000	3 Eng Techs
Maintenance Projects									
Pavement Marking	150,000							150,000	
Joint Sealing	75,000							75,000	
Seal Coat	100,000							100,000	
Sidewalk 75/25	80,000							80,000	
ADA Sidewalk Compliance	50,000							50,000	
Patching Program	1,000,000		230,000	130,000				1,360,000	
Street Projects									
Asphalt Overlays									
26th St, 12th - 16th Ave		325,000		15,000	25,000			365,000	Logan School
14th Ave, 24th - 25th Streets		70,000	2,500	3,000	1,500			77,000	Logan School
14th Ave, 26th - 27th Streets		55,000	2,500	3,000	1,500			62,000	Logan School
15th Ave, 24th - 27th Streets		170,000	2,500	3,000	1,000			176,500	Logan School
16th Ave, 24th - 27th Streets		170,000	2,500	3,000	1,000			176,500	Logan School
34th Ave, 41st - 44th St Ct		90,000			20,000			110,000	
34th Ave, 50th St - 52nd Streets		85,000			25,000			110,000	
46th St, North of 21st Avenue		192,000	210,000					402,000	Red Water
Villa Park		100,000						100,000	
36th Ave, 27th-34th, 36th-41st Street						823,290		823,290	
16th St, JDR - 52nd Avenue						136,260	538,740	675,000	
River Drive, 23rd - 34th Street						190,450	749,550	940,000	
Asphalt Reconstruction									
21st Ave, West of 53rd Street		125,000	325,000	300,000	15,000			765,000	Red Water, Looping
Concrete Reconstructions									
Alley Reconstruction		100,000						100,000	
18th Ave Ct, East of 48th Street		45,000	90,000		10,000			145,000	Red Water, Boulevard, Cul-de-sac
24th Ave, 6th - 7th Streets	130,000		65,000	75,000	35,000			305,000	WPC Project
26th Ave, 38th - 41st Streets		685,000	170,000	210,000	75,000			1,140,000	Red Water
27th Ave, East of 16th Street		190,000	115,000	75,000	70,000			450,000	Red Water
34th Ave, 52nd - 53rd Streets		145,000			35,000			180,000	
Water Projects									
38th St, South of 26th Avenue			45,000					45,000	Loop Genesis to 26th Ave
WPC Projects									
Sanitary Sewer Lining				100,000				100,000	Various Locations
West of 34th St, South of 26th Ave A				230,000				230,000	Ravine, Phase 2 of 5
River Drive SSO Elimination				223,000				223,000	EPA Mandated
Stormwater Projects									
Storm Sewer Lining					100,000			100,000	Various Locations
Stormwater Masterplan Projects									
Traffic Signal Projects									
Misc Equipment Replacement	75,000							75,000	
Total Expenditures	5,109,500	2,547,000	1,260,000	1,380,000	425,000	1,150,000	1,288,290	13,159,790	

2017

	CIP	Utility Tax	Water	WPC	Storm	MFT	Total	Notes
REVENUES	4,975,000	2,440,000	1,230,000	1,380,000	425,000	1,150,000	11,600,000	
Sidewalk 75/25	20,000						20,000	
Transfer from Reserves	186,000	132,500	50,000				368,500	
Total Available	5,181,000	2,572,500	1,280,000	1,380,000	425,000	1,150,000	11,988,500	
EXPENDITURES								
Debt Service	3,140,000						3,140,000	
Temporary Technical Assist	66,000			10,000	10,000		86,000	
Project Design / Inspection	285,000						285,000	3 Eng Techs
Maintenance Projects								
Pavement Marking	100,000						100,000	
Joint Sealing	75,000						75,000	
Seal Coat	100,000						100,000	
Sidewalk 75/25	80,000						80,000	
Patching Program	1,000,000		230,000	130,000			1,360,000	
Alley Reconstruction	100,000						100,000	
ADA Sidewalk Compliance	50,000						50,000	
Street Projects								
Asphalt Overlays								
Villa Park								
25th Ave, 27th - 30th Streets		160,000	5,000	5,000			170,000	
28th Ave, 24th - 25th Ave A		135,000					135,000	
32nd St, South of 25th Ave		85,000		5,000			90,000	
Various Residential Locations		382,500					382,500	
36th Ave, 16th-27th, 41st - 53rd St						1,150,000	1,150,000	
Concrete Reconstructions								
17th Ave, 10th - 11th Streets	185,000		75,000	75,000			335,000	
18th Street B, 23rd - 25th Avenues		250,000	130,000	135,000	50,000		565,000	WPC Project
19th Ave, 13th - 14th Streets		250,000	90,000	65,000	110,000		515,000	WPC Project
28th Ave, 15th - 16th Streets		210,000	130,000	150,000	20,000		510,000	WPC Project
45th St Ct, North of 34th Ave		400,000	210,000	230,000	80,000		920,000	Red Water
Crestwood Subdivision								
28th Ave A, East of 26th Street		225,000	110,000	105,000	10,000		450,000	Red Water
29th Ave Ct, West of 26th Street		300,000	195,000	105,000	40,000		640,000	Red Water
31st St Ct, West of 26th Street		175,000	105,000	120,000	25,000		425,000	Red Water
Water Projects								
WPC Projects								
Sanitary Sewer Lining				100,000			100,000	Various Locations
Ravine Main Replacement							0	
River Drive SSO Elimination				145,000			145,000	EPA Mandated
Stormwater Projects								
Stormwater Masterplan Projects					80,000		80,000	
Transfer to Reserves								
Total Expenditures	5,181,000	2,572,500	1,280,000	1,380,000	425,000	1,150,000	11,988,500	

2018

	CIP	Utility Tax	Water	WPC	Storm	MFT	Total	Notes
REVENUES	5,025,000	2,465,000	1,230,000	1,380,000	425,000	1,150,000	11,675,000	
Sidewalk 75/25	20,000						20,000	
Transfer from Reserves	158,000	133,000	20,000				311,000	
Total Available	5,203,000	2,598,000	1,250,000	1,380,000	425,000	1,150,000	12,006,000	
EXPENDITURES								
Debt Service	3,140,000						3,140,000	
Temporary Technical Assist	66,000			10,000	10,000		86,000	
Project Design / Inspection	285,000						285,000	3 Eng Techs
Maintenance Projects								
Pavement Marking	100,000						100,000	
Joint Sealing	75,000						75,000	
Seal Coat	100,000						100,000	
Sidewalk 75/25	80,000						80,000	
Patching Program	1,000,000		230,000	130,000			1,360,000	
Alley Reconstruction	100,000						100,000	
ADA Compliance	50,000						50,000	
Street Projects								
Asphalt Overlays								
Misc Residential Locations		1,078,000					1,078,000	
16th Street, JDR - 52nd Avenue						1,150,000	1,150,000	
Concrete Reconstructions								
14th St, 7th - 12th Avenues		270,000	155,000	140,000	50,000		615,000	WPC Project, Sealcoat
East of 16th St, North of 12th Ave		60,000	40,000	45,000			145,000	Alley
25th Ave, 13th - 14th Streets		85,000	65,000	50,000	20,000		220,000	WPC Project
28th Ave/18th St C South of 28th Ave		430,000	125,000	135,000	30,000		720,000	Red Water
33rd Ave, West of 38th Street		195,000	115,000	45,000	15,000		370,000	Red Water, Sealcoat
33rd Ave, East of 41st Street		130,000	75,000	95,000			300,000	Red Water, Sealcoat
Crestwood Subdivision								
30th Ave Ct, West of 26th Street		225,000	125,000	105,000	40,000		495,000	Red Water
32nd Ave Ct, West of 26th Street		125,000	65,000	75,000	10,000		275,000	Red Water
Water Projects								
JDR Casing @ 7th Street			150,000				150,000	
JDR Casing @ 16th Street			105,000				105,000	
WPC Projects								
Sanitary Sewer Lining				125,000			125,000	Various Locations
Ravine Main Replacement				230,000			230,000	
River Drive SSO Elimination				195,000			195,000	EPA Mandated
Stormwater Projects								
Stormwater Masterplan Projects	207,000				250,000		457,000	
Total Expenditures	5,203,000	2,598,000	1,250,000	1,380,000	425,000	1,150,000	12,006,000	