



City Council
COMMITTEE OF THE WHOLE
City of Belvidere, Illinois

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Alderman Daniel Snow, 2nd Ward

Co-Chairman, City/County Coordinating

Alderman Thomas Ratcliffe, 3rd Ward

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Vice Chairman Building Planning and Zoning

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Vice Chairman, Finance and Personnel

Alderman Ronald Brooks, 4th Ward

Chairman, Public Works

Alderman Mark Sanderson, 5th Ward

Vice Chairman, Public Works

AGENDA

June 8, 2015

6:00 p.m.

City Council Chambers

401 Whitney Boulevard

Belvidere, Illinois

Call to Order: Mayor Chamberlain:

Roll Call: Present: Absent:

Public Comment:

Public Forum:

Reports of Officers, Boards, and Special Committees:

1. Building, Planning & Zoning, Unfinished Business: None.
2. Building, Planning & Zoning, New Business: None.
3. Public Works, Unfinished Business: None.

4. Public Works, New Business:

- (A) Well #5 Repairs.
- (B) MFT Street Overlay Bid Tabulation.
- (C) MFT Paint Striping Bid Tabulation.
- (D) WWTP – Aeration Tank #5 Valve Replacement.
- (E) WWTP – RAS Pump #2 Variable Frequency Drive Replacement.
- (F) Block Party – Oakwood Drive.
- (G) NIMEC Street Light Bid.
- (H) Resolution Pertaining to Prevailing Rates.

5. Adjournment:

Memo

To: Mayor and City Council
From: Brent Anderson, Director of Public Works
Date: 6/3/2015
Re: Well #5 Repair Summary

Great Lakes Water Resources Group has completed their inspection of Well #5 and their report, including the findings from Earth Engineering's site review is attached. Included in the report is the cost estimate to complete the necessary repairs and reinstallation of the pump assembly.

The cost to furnish and install the cathodic protection as recommended by Earth Engineering is \$8,100.00. The cathodic protection will be identical to the system that was installed at Well #7.

The submersible pump and motor will have to be replaced due to the amount of damage found in both units. The replacement cost is \$52,402.00.

I would recommend approval of the estimate from Great Lakes Water Resources Group, in an amount not-to-exceed \$118,447.70, to complete the repairs and reinstall the pumping equipment at Well #5.

The cost of this work will be paid for from the Water Depreciation Account (#04-09). The current balance of this fund is \$910,000.



Municipal Industrial Irrigation Environmental

Belvidere Well # 5

Report/Inspection Results

Ernie Lilja

Cahoy Group

Ridott IL Office

Office: 800-552-5341

Cell: 815-218-6876

Belvidere Well #5 5-29-2015

Pump Bowl Assembly and Motor:

The attached pictures show that electrolysis is prevalent in well # 5. We have hired Gene from Earth Engineering to diagnose and report his findings on the attached report. This has not been a problem in the past, at well #5, but has somehow surfaced within the last several years. The motor assembly looks just as bad inside as the pictures of the pump bowl assemblies. The thrust bearing inside of the motor was completely gone. The backlash of the motor was over 50 percent of normal rotation causing the motor windings and housing to be over 20 thousandths out. The motor was also leaking fluids and when laid on its side the shaft could only be turned with a 3' pipe wrench. The motor cannot be rebuilt therefore, total replacement of pump and motor are required.

Drop Pipe:

The drop pipe as shown in the attached pictures are coated in thick iron. Initial inspection indicates coupling threads and pipe threads are in good shape. However, due to the electrolysis associated with this well site it would be advisable to have drop pipe sandblasted, to remove the iron, and ensure the integrity of the pipe to be reused. It is going to be less expensive to do this inspection and confirm that everything is in good shape than it will to find out at a later date that things possibly are not as good as we think. Since this drop pipe is fairly new we expect to be able to surface blast the area, do an inspection, primer, and recoat the pipe.

Flat Jacketed Pump Cable Wire:

The power cable supply line for the electric motor for well # 5 looks to be in good condition. The wire megs good and is only approximately 5 years old. So, we see no need for replacement at this time.

Stainless Steel Swing Check Valves:

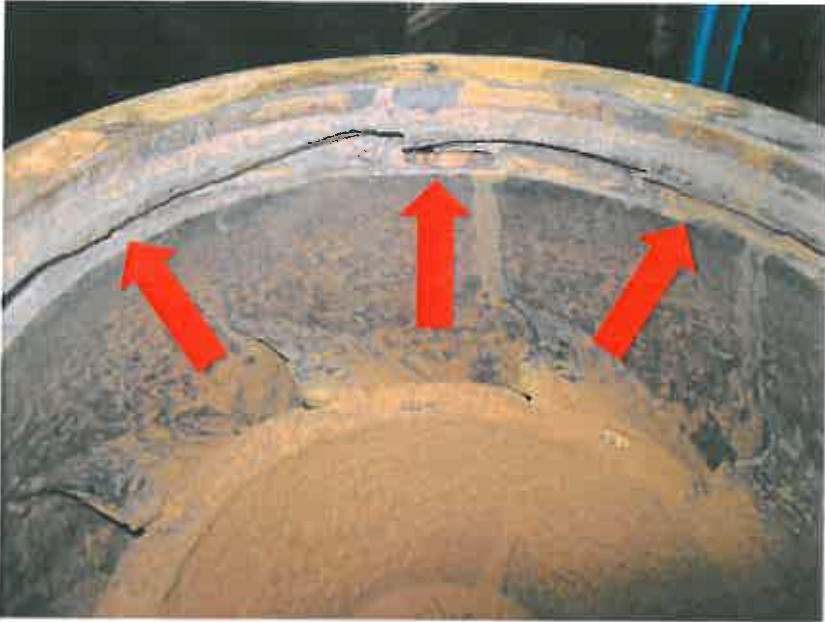
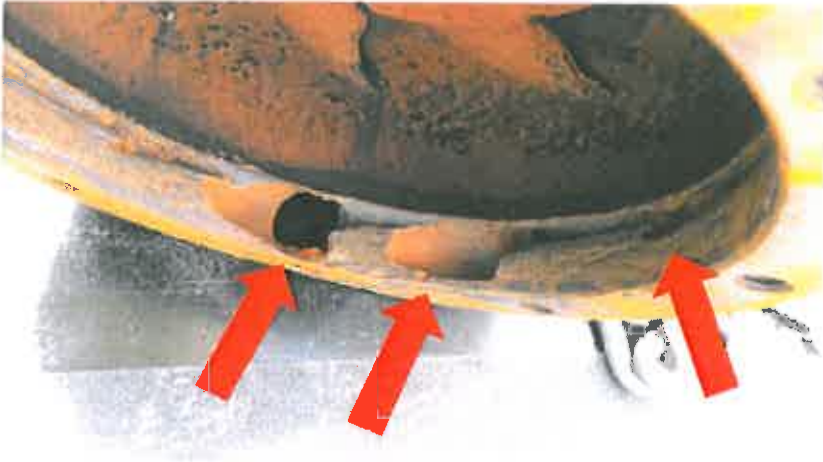
After close inspection, the stainless steel check valves appear to be in good shape and reusable for the system. We recommend sandblasting for a better visual inspection for a determination whether they are to be reused or replaced.

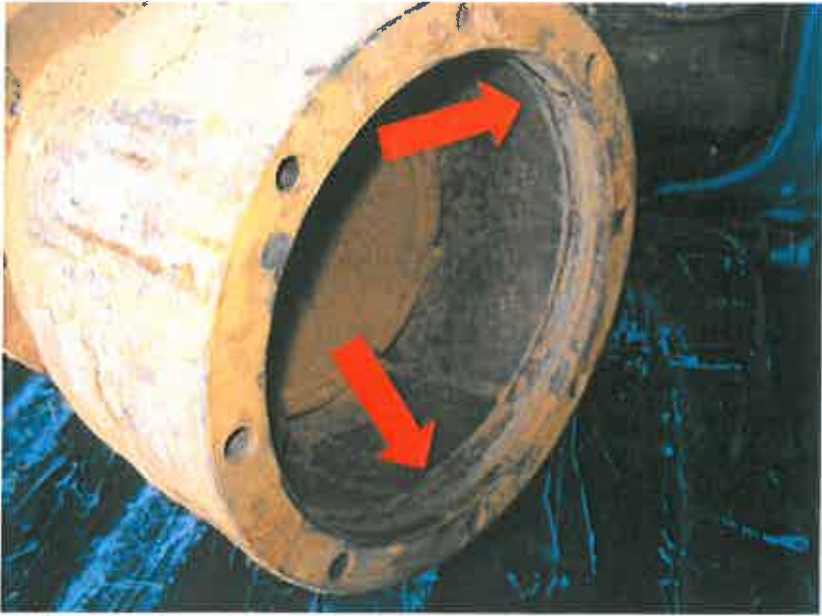
In conclusion, the attached pictures and this narration should give everyone a better idea why this pump failed earlier than designed. Earth Engineering's report is attached for evaluation that tells us why this pumping equipment is in the condition that it is in. If there are any questions or comments I can be reached on my cell at any time.

Respectfully,

Ernie Lilja (Regional Manager)











**City of Belvidere
Municipal Well No. 5
Corrosion Survey Report
May 21, 2015**

Introduction:

This deep-well turbine pump operated from June 2011 until May 2015, when it was pulled from service for inspection following a loss in discharge capacity. A large perforation (3/4" +) was found in an intermediate cast iron bowl.

On May 21, 2015 Earth Engineering Services conducted a series of electrical tests at the well to determine possible causes for the pump damage.

Test Results:

1. Power Grounding:

- a. Control panel to well casing (used for testing as substitute for pump and column pipe)
Power grounding measured in-line with digital ammeter @ "No Load" = 3ma rms
- b. As above, except grounding current measured at discharge from well casing: 0.44 amp AC
- c. Power grounding level in earth as measured from 50' radius to well casing 0.40amp AC

2. Water Conductivity: As measured via sample taken from 70' water level

- a. Conductivity of well water: 830 umho
- b. Conductivity of earth surrounding well= 660 umho

Discussion:

The damage to the turbine pump bowl(s) is indicative of a "stray" current/power grounding or neutral return current affecting the well equipment.

Recommendations:

1. Install anode system and reference electrodes in the well to monitor electrical potentials on the pump and discharge column.
2. Install shunt connections on column pipe to measure AC/DC current flow and facilitate pipe protection. NOTE: Use 4 Conductor #12 Submersible Pump Cable.
3. Install DC Power Unit to energize anodes and monitor protective potentials.

Earth Engineering Services
Gene Allen P.E.
May 31, 2015

In Cooperation with the Cahoy Group



Municipal Industrial Irrigation Environmental

06/02/2015

Attn: Brent Anderson
RE: Well #5 Repairs

Brent,

The following is a report of the pumping equipment and the problems that we found. Included is also a list of the replacement costs including electrolysis protection to prevent this from happening again in the near future and to increase the longevity of the pumping equipment's life expectancy.

The well is reported to be 610 feet deep. However, the results of the down-the-hole video survey show the total depth is only 576 feet deep. Therefore, there is 34 feet of fill material in the well that needs to be removed. The well casing shows the presence of very heavy bio-fouling consisting primarily of mineral encrustation. The well casing should be mechanically cleaned prior to bailing the fill material.

The well should be chemically treated in order to retard the iron bacteria growth. This is listed as an option for you in the pricing table below.

This well appears to suffer from an apparent electrolysis problem. We have had an electrical engineering firm come to the site and conduct a testing procedure for you.

1. Remove submersible pumping equipment	\$4,480.00
2. Televise well casing and borehole	\$1,400.00
3. Conduct electrolysis testing	\$1,385.00
4. Transport, teardown, measure, and inspect pump equipment	\$660.00
5. Replacement submersible pump and motor	\$52,402.00
6. Brush well casing and bail well to depth	\$4,480.00
7. Chemical treatment of well-6,000 gallon solution of HTH and NW-320 tremied into place	\$21,080.00
8. Setup for test pumping to waste	\$1,120.00
9. Test pump well to waste	\$1,120.00
10. Inspect pipe	\$6,880.00
11. Lightly sandblast existing pipe and epoxy coat (price to sandblast and epoxy coat new pipe can be supplied)	\$8,620.70
12. Cathodic protection plan and procedure	\$8,100.00
13. Reinstall submersible pumping equipment	\$6,720.00

Total: \$118,447.70

Key: Black= Completed

Oranges= Required

Blue= Optional

MEMO

To: Mayor and City Council
From: Brent Anderson, Director of Public Works
Subject: MFT Street Overlay Bid Tabulation
Date: June 2, 2015

The following bids were opened for the 2015 MFT Street Overlay Program:

- | | |
|--|--------------|
| 1. Rock Road Companies
P.O. Box 1779
Janesville, WI 53547 | \$430,383.48 |
| 2. William Charles Construction Co
5290 Nimitz Road
Loves Park, IL 61111 | \$439,320.48 |

The engineer's estimate for this work was \$501,010.00.

I would recommend approval of the low bid from Rock Road Companies, in the amount of \$430,383.48, for the 2015 MFT Street Overlay Program, subject to IDOT approval. This work will be paid for from MFT Funds.

Memo

To: Mayor and City Council
From: Brent Anderson, Director of Public Works
Date: 6/2/2015
Re: 2015 MFT Paint Striping Bid Tabulation

The following bids were opened today for the 2014 MFT Paint Striping Contract:

1. Maintenance Coatings Co 543 Woodbury St South Elgin, IL 60177	\$32,097.50
1. Countryman, Inc. P.O. Box 2302 Loves Park, IL 61131	\$46,620.00
2. Marking Specialists Corp P.O. Box 745 Arlington Heights, IL 60005	\$54,515.00
2. Mark-It Corp 643 Parkwood Ave Romeoville, IL 60440	\$75,725.00

The estimate for this work was \$64,950.00.

I would recommend approval of the low bid from Maintenance Coatings, in the amount of \$32,097.50, for the 2015 MFT Paint Striping Project, subject to IDOT approval. This work will be paid for from MFT Funds.

Memo

To: Mayor and City Council
From: Brent Anderson, Director of Public Works
Date: 6/3/2015
Re: Aeration Tank #5 Valve Replacement- WWTP

The existing main supply valve for aeration tank #5 is failing and needs to be replaced.

We have received the following proposals to furnish a replacement 16" valve and stem extension for aeration tank #5:

- | | |
|--|-------------|
| 1. HD Supply Waterworks, Ltd
6829 Irene Road
Belvidere, IL 61008 | \$5,300.00 |
| 2. Swanson Flo
151 Cheshire Lane North
Plymouth, MN 55441 | \$13,540.00 |
| 3. Process Sales, Inc.
210 Fairbank Street
Addison, IL 60101 | \$14,820.00 |

I would recommend approval of the proposal from HD Supply Waterworks, in the amount of \$5,300.00, for furnishing a 16" valve for aeration tank #5 at the WWTP . This equipment will be paid for from the plant depreciation fund.



Flow Control Solutions

Wherever water is treated, moved, or stored, you can rely on GA Industries.

From standard butterfly and plug valves to sophisticated, highly engineered pump, check and surge control valves, GA Industries offers one of the broadest valve product ranges specifically suited to the demanding needs of municipal waterworks.

Our valves are designed in strict accordance with AWWA and other industry standards. They are precision manufactured from the highest-grade materials, and every valve is factory tested to ensure that it performs. This means you can be sure that the valve will operate as expected from the minute it is put into service.

Visit www.gaindustries.com to learn more.



Butterfly Valves

GA Series 800 Butterfly Valves are the product of more than a century of engineering excellence, manufacturing expertise, and application know-how. They are NSF-61 approved for contact with drinking water and are designed to meet or exceed the tough requirements of AWWA C504 and are well suited for demanding applications in water filtration, treatment, pumping, and pipelines.



3" to 20" Wafer Butterfly Valve

- Conforms to AWWA C504
- NSF-61 epoxy coated ductile iron body
- Molded and vulcanized rubber seat in body
- Class 150B and 250B rated
- Fits between ANSI Class 125/150 flanges
- Manual or power actuated
- Accessories available



3" to 24" Butterfly Valves

- NSF-61 epoxy coated ductile iron body
- Molded and vulcanized rubber seat in body
- Class 150B and 250B rated
- Class 125 flanged or mechanical joint
- Manual or power actuated
- Accessories available



30" and Larger Butterfly Valves

- NSF-61 Epoxy coated cast iron or ductile iron body
- Field replaceable rubber seat in body
- Rubber seat mechanically retained without epoxy
- Class 150B or 250B rated
- Class 125 flanged or mechanical joint
- Manual or power actuation
- Accessories available

Plug Valves

GA Industries' round port ECO-Centric® Plug Valve fully conforms to AWWA C517 and minimizes energy consumption with a higher Cv value and inherently lower head loss than rectangular port design. Specify the GA ECO-Centric® Plug Valve today to reduce power consumption and save energy costs.



½" to 2½" Eccentric Plug Valves

- Round port for high capacity and low head loss
- Epoxy coated and lined ductile iron body
- Rubber coated ductile iron plug
- NPT ends
- Manual lever operator



3" to 24" Eccentric Plug Valves

- Round port for high capacity and low head loss
- Epoxy coated and lined ductile iron body
- Welded nickel seat
- Rubber coated ductile iron plug
- Class 125 flanged or mechanical joint
- Manual or power actuated
- Accessories available



30" and Larger Eccentric Plug Valves

- Epoxy coated and lined cast iron body
- Welded nickel seat
- Rubber coated ductile iron disc
- Lifting eyes and feet to facilitate installation
- Class 125 flanged or mechanical joint
- Manual or power actuated
- Accessories available

Engineered Check Valves

GA Industries' Engineered Check Valves are designed for dependable, non-slam operation under the rigorous conditions found in both water and sewage pumping stations. They are available in many configurations and are engineered to suit the unique needs of those applications that require more than an ordinary check valve.



Cushioned Swing Check Valves

- Quiet, non-slam operation on water and sewage pumps
- Exceeds AWWA C508 requirements
- Iron body, 316SS or bronze trim, stainless steel shaft, resilient seat
- Side-mounted external cushion chamber
- 2"– 54" Class 125 and 250 flanged
- Increasing sizes available
- Additional options available



Oil-Controlled Closing Swing Check Valves

- Two-stage closure for non-slam operation on high head water and sewage pumps
- Iron body, 316SS or bronze trim, stainless steel shaft, resilient seat
- Side-mounted, external oil-hydraulic system for final closing speed control
- 2"– 24" Class 125 flanged only
- Additional options available



Tilting Disc Check Valves

- Provides minimal flow resistance for smooth passage of water with non-slam operation
- Iron body with bronze trim
- Metal-to-metal seated
- Optional bottom buffer or top mounted hydraulic dashpot
- 6"– 48" Class 125 and 250 flanged
- Additional options available

Memo

To: Mayor and City Council
From: Brent Anderson, Director of Public Works
Date: 6/3/2015
Re: RAS Pump #2 Variable Frequency Drive Replacement - WWTP

The 1996 variable frequency drive (VFD) for RAS pump #2 has quit working and needs to be replaced.

We have received the following proposals to furnish a replacement 75 HP VFD for RAS pump #2:

- | | |
|--|------------|
| 1. Gasvoda & Associates, Inc.
1530 Huntington Drive
Calumet City, IL 60409 | \$5,204.00 |
| 2. McGilvra Electric
1411 E Huebbe Parkway
Beloit, WI 53511 | \$5,375.00 |
| 3. TLC Controls, Inc.
553 W Carboy Road
Mt. Prospect, IL 60056 | \$6,350.00 |
| 4. Fitzgerald's Electrical Contracting, Inc
6s865 Shaw Road
Big Rock, IL 60511 | \$6,370.00 |

I would recommend approval of the proposal from Gasvoda & Associates, in the amount of \$5,204.00, for furnishing a 75 hp vfd for RAS pump #2. This equipment will be paid for from the plant depreciation fund.

City of Belvidere • Illinois

City Hall: 401 Whitney Blvd.
Belvidere, Illinois 61008-3710
(815) 544-2612 • Fax (815) 544-3060

BLOCK PARTY REQUEST FORM Street Closure Required

Requested by: Melissa Glover
Address: 2365 Oakwood Dr. Belvidere
Date of Block Party: Aug 1st 2015
Time of Block Party: 3 PM - 10 PM
Estimated number of
Individuals participating: 75

Description of Planned
Activities:

Block party

Oakwood Drive closed between
Hazelwood and Oakbrook Court

The undersigned hereby acknowledges, understands and agrees to the following: If this request is authorized by the Belvidere City Council it is the responsibility of participants to place from and return street barricades to the terrace.

Furthermore, section 10-40 of the Belvidere Code of Ordinances prohibits use of alcoholic liquor on any public street or sidewalk. This ordinance states "it shall be unlawful to any person to consume alcoholic liquor or to have any alcoholic liquor in his possession...on any public street, sidewalk, etc." This ordinance applies to block parties.

Melissa Glover
Signature of Resident

June 3 2015
Date

Shauna Arco

From: Mayor Mike Chamberlain
Sent: Thursday, June 04, 2015 12:00 PM
To: Shauna Arco
Subject: FW: St. Light Bid Date: Tuesday, June 9
Attachments: June 3.xlsx

From: David Hoover [<mailto:dhoover@nimec.net>]
Sent: Wednesday, June 03, 2015 10:45 AM
To: NIMEC Members
Subject: St. Light Bid Date: Tuesday, June 9



Dear Members,

We are declaring the street light bid date of Tuesday June 9.

Please note: we will NOT be including your Small accounts. ComEd only offers a fixed rate option for Small accounts. We have priced out these Small accounts with our suppliers and the ComEd fixed rate is currently more attractive. As such, we will keep/return all Small street light accounts back to ComEd to take advantage of the lower pricing.

For Medium and Large sized accounts, ComEd only offers a floating rate market based upon market conditions. That rate is reset each hour. That rate for street lights averaged 4.1¢ over the last 12 months. But please note: we cannot predict what the new market rate will be over the upcoming 12 months.

Next Tuesday morning you will receive an email from me detailing the bid results. You will also receive bid documents directly from the supplier. We will be providing our fixed rate pricing for both 12 and 24 months. Each member is able to select next Tuesday the term/price they prefer. But pricing will expire at 4:30pm on Tuesday afternoon.

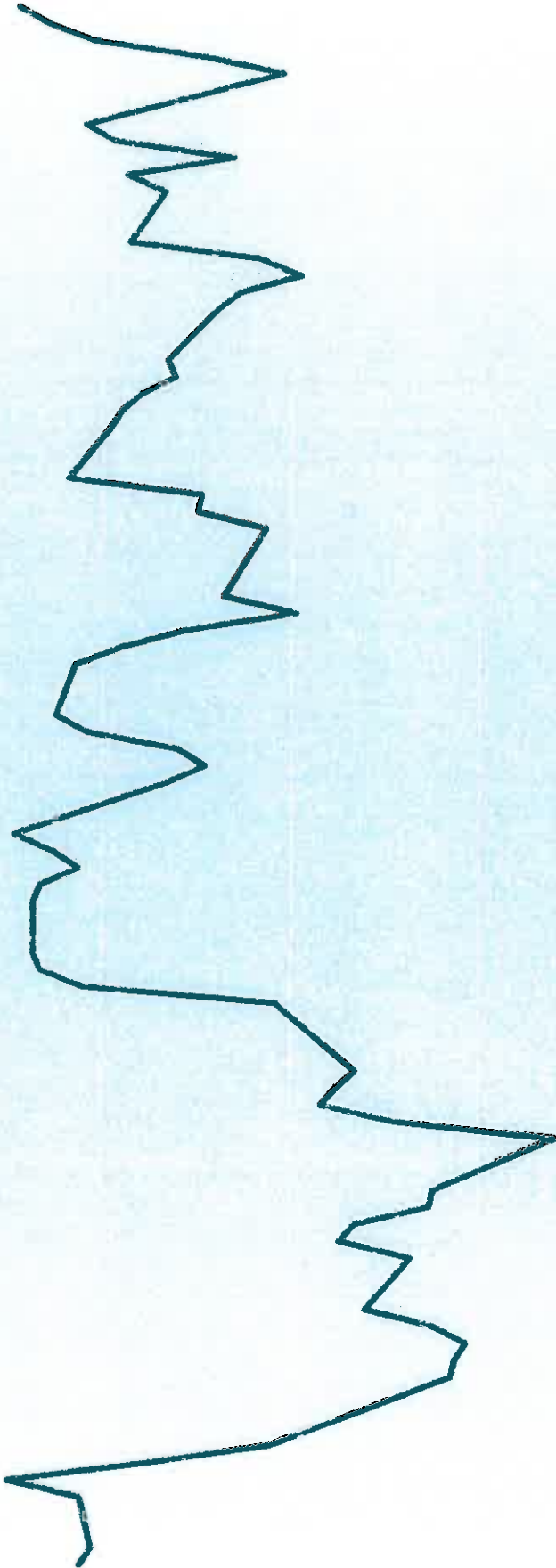
We will host 2 conference calls that day; one at 10:30 and one at 1:30. Pick whichever time is better for you. The calls will be identical. I will provide the conference call number next Tuesday morning.

Please let me know what other issues I can address.

Dave

David Hoover
Executive Director
847.392-9300

02-Mar-2015
04-Mar-2015
06-Mar-2015
08-Mar-2015
10-Mar-2015
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31-May-2015
02-Jun-2015



Electric Pricing: March to June

**RESOLUTION # 2031-2015:
A RESOLUTION PERTAINING TO PREVAILING RATES**

WHEREAS, the State of Illinois has enacted "An Act regulating wages of laborers, mechanics and other workers employed in any public works by the State, County, City or any public body or any political subdivision or by any one under contract for public works," approved June 26, 1941, as amended, (820 ILCS 130/1 et seq.); and

WHEREAS, the aforesaid Act requires that the City Council of the City of Belvidere, investigate and ascertain the prevailing rate of wages as defined in said Act for laborers, mechanics and other workers in the locality of said City of Belvidere employed in performing construction of public works, for said City.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BELVIDERE, ILLINOIS:

Section 1: To the extent and as required by "an Act regulating wages of laborers, mechanics and other workers employed in any public works by State, County, City or any public body or any political subdivision or by any one under contract for public works," approved June 26, 1941, as amended, the general prevailing rate of wages in this locality under the jurisdiction of the City is hereby ascertained to be the same as the prevailing rate of wages for construction work in the Boone County area as determined by the Department of Labor of the State of Illinois as of June of the current year, a copy of that determination being attached hereto and incorporated herein by reference. As required by said Act, any and all revisions of the prevailing rate of wages by the Department of Labor of the State of Illinois shall supersede the Department's June determination and apply to any and all public works construction undertaken by the City. The definition of any terms appearing in this Resolution, which are also used in aforesaid Act, shall be the same as in said Act.

Section 2: Nothing herein contained shall be construed to apply said general prevailing rate of wages as herein ascertained to any work or employment except public works construction of the City to the extent required by the aforesaid Act.

Section 3: The City Clerk shall publicly post or keep available for inspection by any interested party in the main office of the City this determination or any revisions of such prevailing rate of wage. A copy of this determination or of the current revised determination of prevailing rate of wages then in effect shall be attached to all contract specifications. All contracts subject to the Act and all bid specifications for works subject to the Act shall specifically require compliance with the Act, including but not limited to, the record keeping and reporting provisions.

Section 4: The City Clerk shall mail a copy of this determination to any employer and to any association of employers and to any person or association of employers who have filed their names and addresses, requesting copies of any determination stating the particular rates and the particular class of workers whose wages will be affected by such rates.

Section 5: The City Clerk shall promptly file a certified copy of this Resolution with both the Secretary of State Index Division and the Department of Labor of the State of Illinois.

Section 6: The City Clerk shall cause to be published in a newspaper of general circulation within the area, a copy of this Resolution, and such publication shall constitute notice that the determination is effective and that this is the determination of this public body.

Adopted by the City Council of the City of Belvidere, Illinois this the 15th day of June 2015.

Approved: _____

Mayor Michael W. Chamberlain

Attested: _____

Shauna Arco, City Clerk

Ayes:

Nays:

Absent:

Date Approved:

Date Published:

Boone County Prevailing Wage for June 2015

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng			
ASBESTOS ABT-GEN	ALL			38.200	38.700	1.5	1.5	2.0	13.42	10.48	0.000	0.500			
ASBESTOS ABT-MEC	BLD			22.750	24.250	1.5	1.5	2.0	3.390	5.170	0.000	0.000			
BOILERMAKER	BLD			45.650	49.760	2.0	2.0	2.0	6.970	17.81	0.000	0.400			
BRICK MASON	BLD			38.550	41.300	1.5	1.5	2.0	9.230	12.57	0.000	0.640			
CARPENTER	BLD			37.360	41.470	1.5	1.5	2.0	8.600	12.05	0.000	0.600			
CARPENTER	HWY			42.630	44.380	1.5	1.5	2.0	8.600	11.00	0.000	0.490			
CEMENT MASON	ALL			35.740	38.490	1.5	1.5	2.0	9.300	12.70	0.000	0.500			
CERAMIC TILE FNShR	BLD			32.850	0.000	1.5	1.5	2.0	8.600	5.210	0.000	0.560			
COMMUNICATION TECH	BLD			36.440	40.080	1.5	1.5	2.0	10.39	12.09	0.000	0.760			
ELECTRIC PWR EQMT OP	ALL			37.890	51.480	1.5	1.5	2.0	5.000	11.75	0.000	0.380			
ELECTRIC PWR EQMT OP	HWY			39.220	53.290	1.5	1.5	2.0	5.000	12.17	0.000	0.390			
ELECTRIC PWR GRNDMAN	ALL			29.300	51.480	1.5	1.5	2.0	5.000	9.090	0.000	0.290			
ELECTRIC PWR GRNDMAN	HWY			30.330	53.290	1.5	1.5	2.0	5.000	9.400	0.000	0.300			
ELECTRIC PWR LINEMAN	ALL			45.360	51.480	1.5	1.5	2.0	5.000	14.06	0.000	0.450			
ELECTRIC PWR LINEMAN	HWY			46.950	53.290	1.5	1.5	2.0	5.000	14.56	0.000	0.470			
ELECTRIC PWR TRK DRV	ALL			30.340	51.480	1.5	1.5	2.0	5.000	9.400	0.000	0.300			
ELECTRIC PWR TRK DRV	HWY			31.400	53.290	1.5	1.5	2.0	5.000	9.730	0.000	0.310			
ELECTRICIAN	BLD			42.960	47.260	1.5	1.5	2.0	10.39	17.47	0.000	0.860			
ELEVATOR CONSTRUCTOR	BLD			46.830	52.680	2.0	2.0	2.0	13.57	14.21	3.750	0.600			
GLAZIER	BLD			35.980	37.980	1.5	1.5	1.5	10.30	8.200	0.000	1.250			
HT/FROST INSULATOR	BLD			33.930	38.550	0.0	0.0	0.0	7.950	14.77	0.000	0.480			
IRON WORKER	ALL			36.290	38.100	2.0	2.0	2.0	8.640	22.69	0.000	0.500			
LABORER	ALL			38.000	38.750	1.5	1.5	2.0	13.42	10.48	0.000	0.500			
LATHER	BLD			37.360	41.470	1.5	1.5	2.0	8.600	12.05	0.000	0.600			
MACHINIST	BLD			44.350	46.850	1.5	1.5	2.0	6.760	8.950	1.850	0.000			
MARBLE FINISHERS	BLD			32.850	0.000	1.5	1.5	2.0	8.600	5.210	0.000	0.560			
MARBLE MASON	BLD			35.530	35.780	1.5	1.5	2.0	8.600	7.520	0.000	0.590			
MATERIAL TESTER I	ALL			28.000	0.000	1.5	1.5	2.0	13.42	10.48	0.000	0.500			
MATERIALS TESTER II	ALL			33.000	0.000	1.5	1.5	2.0	13.42	10.48	0.000	0.500			
MILLWRIGHT	BLD			36.700	40.370	1.5	1.5	2.0	8.600	14.37	0.000	0.500			
OPERATING ENGINEER	BLD 1			42.800	46.800	2.0	2.0	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	BLD 2			42.100	46.800	2.0	2.0	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	BLD 3			39.650	46.800	2.0	2.0	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	BLD 4			37.650	46.800	2.0	2.0	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	BLD 5			46.550	46.800	2.0	2.0	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	BLD 6			45.800	46.800	2.0	2.0	2.0	17.10	11.05	0.000	1.300			
OPERATING ENGINEER	BLD 7			42.800	46.800	2.0	2.0	2.0	17.10	11.05	0.000	1.300			
OPERATING ENGINEER	FLT			35.000	35.000	1.5	1.5	2.0	16.60	11.05	1.900	1.250			
OPERATING ENGINEER	HWY 1			42.650	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	HWY 2			42.100	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	HWY 3			40.800	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	HWY 4			39.350	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	HWY 5			37.900	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	HWY 6			45.650	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
OPERATING ENGINEER	HWY 7			45.650	46.650	1.5	1.5	2.0	17.10	11.05	2.350	1.300			
PAINTER	ALL			36.500	38.500	1.5	1.5	1.5	10.30	8.460	0.000	1.350			
PAINTER SIGNS	BLD			33.920	38.090	1.5	1.5	1.5	2.600	2.710	0.000	0.000			
PILEDRIIVER	BLD			38.360	42.580	1.5	1.5	2.0	8.600	12.05	0.000	0.600			
PILEDRIIVER	HWY			42.630	44.380	1.5	1.5	2.0	8.600	11.00	0.000	0.490			
PIPEFITTER	ALL			43.100	46.120	1.5	2.0	2.0	8.220	11.29	0.000	1.000			
PIPEFITTER	BLD			43.100	46.120	1.5	2.0	2.0	8.220	11.29	0.000	1.000			
PLASTERER	BLD			34.250	37.680	1.5	1.5	2.0	9.300	12.30	0.000	0.500			
PLUMBER	ALL			43.100	46.120	1.5	2.0	2.0	8.220	11.29	0.000	1.000			
PLUMBER	BLD			43.100	46.120	1.5	1.5	2.0	8.220	11.29	0.000	1.000			
ROOFER	BLD			40.100	43.100	1.5	1.5	2.0	8.280	10.54	0.000	0.530			
SHEETMETAL WORKER	BLD			37.930	40.210	1.5	1.5	2.0	6.000	16.92	0.520	0.290			
SPRINKLER FITTER	BLD			37.120	39.870	1.5	1.5	2.0	8.420	8.500	0.000	0.350			
STONE MASON	BLD			38.550	41.300	1.5	1.5	2.0	9.230	12.57	0.000	0.640			
SURVEY WORKER	-->	NOT IN EFFECT				ALL	37.000	37.750	1.5	1.5	2.0	12.97	9.930	0.000	0.500
TERRAZZO FINISHER	BLD			32.850	0.000	1.5	1.5	2.0	8.600	5.210	0.000	0.560			
TERRAZZO MASON	BLD			35.530	35.780	1.5	1.5	2.0	8.600	7.520	0.000	0.590			
TILE LAYER	BLD			37.360	41.470	1.5	1.5	2.0	8.600	12.05	0.000	0.600			
TILE MASON	BLD			35.530	35.780	1.5	1.5	2.0	8.600	7.520	0.000	0.590			
TRUCK DRIVER	ALL 1			35.020	0.000	1.5	1.5	2.0	8.600	8.600	0.000	0.200			
TRUCK DRIVER	ALL 2			35.170	0.000	1.5	1.5	2.0	8.600	8.600	0.000	0.200			
TRUCK DRIVER	ALL 3			35.370	0.000	1.5	1.5	2.0	8.600	8.600	0.000	0.200			
TRUCK DRIVER	ALL 4			35.480	0.000	1.5	1.5	2.0	8.600	8.600	0.000	0.200			
TUCKPOINTER	BLD			38.550	41.300	1.5	1.5	2.0	9.230	12.57	0.000	0.640			

Legend: RG (Region)
 TYP (Trade Type - All, Highway, Building, Floating, Oil & Chip, Rivers)
 C (Class)
 Base (Base Wage Rate)
 FRMAN (Foreman Rate)
 M-F-8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)
 OSA (Overtime (OT) is required for every hour worked on Saturday)
 OSH (Overtime is required for every hour worked on Sunday and Holidays)
 H/W (Health & Welfare Insurance)
 Pensi (Pension)
 Vac (Vacation)
 Trng (Training)

Explanations

BOONE COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

COMMUNICATION TECHNICIAN

Installing, manufacturing, assembling and maintaining sound and intercom, protection alarm (security), fire alarm, master antenna television, closed circuit television, low voltage control for computers and/or door monitoring, school communications systems, telephones and servicing of nurse and emergency calls, and the installation and maintenance of transmit and receive antennas, transmitters, receivers, and associated apparatus which operates in conjunction with above systems. All work associated with these system installations will be included EXCEPT the installation of protective metallic conduit in new construction projects (excluding less than ten-foot runs strictly for protection of cable) and 120 volt AC (or higher) power wiring and associated hardware.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEERS - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver (over 27E cu. ft.); Concrete Paver (27 cu. ft. and under); Concrete Placer; Concrete Pump (Truck Mounted); Concrete Conveyor (Truck Mounted); Concrete Tower; Cranes, All; GCI and similar types (required two operators only); Cranes, Hammerhead; Creter Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, one, two and three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment

excluding hose work and any sewer work); Locomotives, All; Lubrication Technician; Manipulators; Motor Patrol; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Raised and Blind Hole Drill; Rock Drill (self-propelled); Rock Drill - Truck Mounted; Roto Mill Grinder; Scoops - Tractor Drawn; Slipform Paver; Scrapers Prime Movers; Straddle Buggies; Tie Back Machine; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Bobcat (over 3/4 cu. yd.); Boilers; Brick Forklift; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Asphalt Spreader; Combination - Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators - (Rheostat Manual Controlled); Hydraulic Power Units (Pile Driving, Extracting, or Drilling - with a seat); Lowboys; Pumps, Over 3" (1 to 3 not to exceed total of 300 ft.); Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches; Bobcat (up to and including 3/4 cu. yd.).

Class 4. Elevator push button with automatic doors; Hoists, Inside; Oilers; Brick Forklift.

Class 5. Assistant Craft Foreman

Class 6. Mechanics; Welders.

Class 7. Gradall

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Silo Tender; Asphalt Spreader; Autograder; ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Backhoe w/shear attachments; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower of all types; Creter Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Directional Boring Machine over 12"; Dredges; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Mounted; Hoists, One, Two and Three Drum; Hydraulic Backhoes; Hydro Vac, Self Propelled, Truck Mounted (excluding hose work and any sewer work); Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; GCI Crane; Hydraulic Telescoping Form (Tunnel); Tie Back Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader with attached pusher; Tractor with Boom; Tractaire with Attachments; Traffic Barrier Conveyor Machine; Raised or Blind Hole Drills; Trenching Machine (over 12"); Truck Mounted Concrete Pump with Boom; Truck Mounted Concrete Conveyor; Work Boat (no license required - 90 h.p. or above); Underground Boring and/or Mining Machines; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw (large self-propelled - excluding walk-behinds and hand-held); Conveyor Muck Cars (Haglund or Similar Type); Drills, all; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro Blaster; All Locomotives, Dinky; Off-Road Hauling Units; Non-Self Loading Dump; Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Flows; Rototiller, Seaman, etc., self-propelled; Scoops - Tractor Drawn; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper; Scraper - Prime Mover in Tandem (Regardless of Size); Tank Car Heater; Tractors, Push, Pulling Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Fireman on Boilers; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw,

Concrete Power Driven; Pug Mills; Rollers, other than asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper - Form - Motor Driven.

Class 4. Air Compressor - Small and Large; Asphalt Spreader, Backend Man; Bobcat (Skid Steer) all; Brick Forklift; Combination - Small Equipment Operator; Directional Boring Machine up to 12"; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Hydro-Blaster; Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Tractaire; Trencher 12" and under; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. Oilers and Directional Boring Machine Locator.

Class 6. Field Mechanics and Field Welders

Class 7. Gradall and machines of like nature.

OPERATING ENGINEERS - FLOATING

Diver. Diver Wet Tender, Diver Tender, ROV Pilot, ROV Tender

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamters; Unskilled dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turntrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turntrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-/82-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".