

# Project Manual      BID PLU 14-01

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## Waukesha County Parks Minooka & Mukwonago Park Restrooms

1927 E. Sunset Drive, Waukesha, WI 53186  
S100 W31900 Wouny Hwy LO, Mukwonago, WI 53149

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Contract 14-01  
Volume 01 Procurement Documents

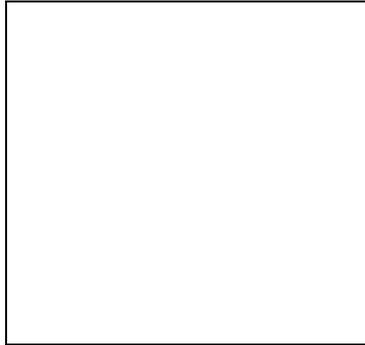
Waukesha County Parks & Land Use  
515 West Moreland Boulevard, Rm. AC230  
Waukesha, Wisconsin 53188

Engberg Anderson Project No. **122219**

February 4, 2014

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SEAL

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### WAUKESHA COUNTY PARKS - MINOOKA & MUKWONAGO PARK RESTROOMS

WAUKESHA COUNTY PROJECT NO: PLU 14-01

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### INVITATION TO BID

**PROJECT:** Waukesha County Parks  
Minooka & Mukwonago Park Restrooms  
Minooka Park Mukwonago Park  
1927 East Sunset Drive S100 W31900 County Hwy LO  
Waukesha, Wisconsin 53186 Mukwonago, WI 53149

1. Bids will be prepared in accordance with Contract Documents prepared by:  
Engberg Anderson  
320 East Buffalo Street  
Suite 500  
Milwaukee, WI 53202
2. Notice is hereby given that sealed bids are due at 10:30 A.M., on March 4, 2014. (Reference Bid Form, Item 2)  
Waukesha County Administration Center  
Waukesha County Department of Administration  
Purchasing Division Office  
Room 310  
Waukesha, Wisconsin 53188
3. Bids will be publicly read at 10:30 A.M., on March 4, 2014, in the  
Waukesha County Administration Center,  
515 W. Moreland Blvd., Room 310,  
Waukesha, Wisconsin 53188
4. Oral, faxed or e-mailed bids will be rejected.
5. All blanks on the Bid Form shall be filled in by typewriter print or manually in ink. If the unfilled areas are illegible, the bid shall be rejected. The bidder shall make no additional stipulations on the Bid Form or qualify the bid in any manner.
6. Where so indicated on the Bid Form, the values shall be expressed in both words and figures. In the event of discrepancy between the words and figures, the amount written in words shall govern.
7. Bids will be submitted using the Bid Form provided herein. Bid security shall be by a qualified surety in the form of a bid bond, in the amount of ten percent (10%) of bid amount, and shall be submitted with the bid. Bidders shall agree to not withdraw the bid for a period of sixty (60) days after due date of bids.
8. Accepted bidders will be required, as a condition precedent to award of contract, to furnish in the amount of 100% of the contract prices, satisfactory Performance Bond, Labor and Material Payment Bond and Certificate of Insurance.
9. Bid documents will be available on or after February 4, 2014. Bidders may obtain bid documents only from the following site: <https://purchasing.waukeshacounty.gov> – Bid/RFP Listing. Documents will available for download. Documents will not be mailed. **It is the responsibility of prospective bidders to check this website for any future amendments,**

questions, revisions, etc., prior to the opening date. All addenda must be acknowledged on the signature page in the area provided. Failure to do so may result in your response being rejected.

10. Pre-bid meeting and walkthrough Part 1 on February 13, at 9:00am. Meeting location is Minooka Park Office Building. Pre-bid meeting and walkthrough Part 2 on February 13, at 10:30am. Meeting location is Mukwonago Park Office Building. **Please be on time as no accommodations will be made for later arrivals. NOTE: This will be the only opportunity for a walk through, therefore, be sure to bring all potential subcontractors. Vendors are also reminded to review all bid documents, drawings, etc. prior to arrival.**
12. The right to reject any or all bids, either in whole or in part, or to waive any informalities or irregularities is reserved by Waukesha County.

Published by Order of:  
Waukesha County Department of Parks and Land Use  
Parks Division  
Phone: (262)548-7790  
Fax: (262) 896-8070  
515 W. Moreland Blvd  
Waukesha, WI 53188

**END OF INVITATION TO BID**

## SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

### GENERAL:

Carefully review Project Manual(s), including Bidding Requirements, General Requirements, Specifications, Alternates, and Amendments, all of which contain provisions applicable to all Bidders. Examine all drawings, as successful Bidder will be required to execute all Work belonging to their Contract which is shown on drawings, stated in the specifications, or reasonably implied as necessary to complete their Contract, including removal of existing work and preparing present work to receive new, if such be the requirements of actual job conditions.

Visit site to become acquainted with: Adjacent areas; means of approach to the site; present conditions of Project site; and facilities for delivering, storing, placing and handling of materials and equipment. Compare specifications and drawings with existing work in place, inspect demolition requirements and inform yourself of all conditions affecting execution of Work, including other new work, if any, being performed. Review informational documentation, such as geotechnical reports, soil test borings and other available information, if any.

### WORKSITE AVAILABILITY:

A specific window of opportunity exists for completion of the Contract, therefore Work shall commence on the date noted in the Bid Form. (Reference Bid Form, Section 7.B.)

Work Restrictions, General: On-Site Work Hours:

1. All Sites: Limit work to working hours Monday through Friday, unless otherwise indicated.
  - a. No work allowed on Monday, May 26, 2014 and Friday, July 4, 2014.
2. All Sites: Picnic Areas and Shelters adjacent to each building construction area will be available for use by the public during park hours for the duration of the Project.

### DOCUMENTS:

Bidders shall be familiar with all Bidding Requirements and proposed Contract Documents. See General Conditions for definition of Contract Documents.

### BID FORM:

Alterations of or amendments to Bid Form, attachments thereto, or inclusion of any correspondence, or other written or printed matter or details of any nature other than that specifically called for may disqualify Bid. No e-mailed alterations to the Bid will be accepted.

Only Bids which are made on regular Bid Form will be considered. Bids for arbitrary sub-division or sub-classification of work required by requested bid(s) will not be accepted.

Requirements of Signing: Include with each Bid full business address of Bidder. Bids by corporations shall be executed in the full legal name of the corporation, giving State of incorporation and be signed by an authorized officer or officers, who shall, in each case, type or print name and corporate title beneath the signature. Partnership Bids shall state the full name of all partners, e.g., "Smith and Jones, a partnership of John S. Smith and William B. Jones". Such Bids must also be signed by an authorized partner or other representative, typing or printing the name and title of the signer beneath the signature. Individuals doing business under another name must sign the Bid, followed by the words "Sole Proprietor". When requested by Owner, furnish satisfactory evidence of agency or authority of any person signing on behalf of another.

Submission of Bids: Reference Bid Form, Section 2.

**CONTRACT AND CONTRACT DOCUMENTS:**

The Contract Agreement, into which successful Bidder will be required to enter, is based on AIA Form A101 (as modified by owner). Familiarize yourself with the provisions of this document.

General Conditions of the Contract for Construction, AIA Document A201 (as modified by owner) is part of the project Contract Documents; See General Conditions, sub-paragraph 1.1.1 for definition of Contract Documents.

**CONTRACTOR'S QUALIFICATION STATEMENT:**

Bidders who are being considered for the award of a Contract shall submit to the Owner upon request a properly executed AIA Document A305, Contractor's Qualification Statement.

**ACCEPTANCE OF BID (AWARD):**

It is the intent of the Owner to award a Contract or accept any Bid which will be in the best interests of the Owner, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Owner reserves the right to waive informalities or irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

Owner reserves the right to award a single contract or multiple contracts to best meet owner's budget and schedule.

The Owner reserves the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the low Bidder on the basis of the Base Bid and Alternates accepted.

**WITHDRAWAL OF BIDS:**

Matters pertaining to the withdrawal of a Bid and to claims of error, omission or mistake in preparing or submitting a Bid shall be governed by Section 66.0901 of the Wisconsin Statutes.

All Bids shall be effective and open for acceptance for a period of sixty (60) days after date set for opening of Bids.

**RESERVATION:**

Owner reserves the right to: reject any or all Bids, reject a Bid not accompanied by a required bid security or by other data required by the Bidding Documents, reject a Bid which is in any way incomplete or irregular, waive any irregularities in any Bid, accept any Bid which will be to best interests of Owner.

**INADEQUACIES AND OMISSIONS:**

Failure to request timely clarification or interpretation of Bidding Documents shall not relieve Bidder/Contractor of responsibility to execute the Work in accordance with the intent of the Contract Documents. Signing of Contract means that the Contractor has thorough comprehension of full intent and scope of Contract Documents.

The Owner and his consultants are not responsible for oral instructions.

**INTERPRETATIONS AND CORRECTIONS:**

Carefully review and compare all parts of the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is being submitted. Examine the site and local conditions, and immediately report to the Owner errors, inconsistencies or ambiguities discovered.

Bidders and Sub-bidders requiring clarification or interpretation of the Bidding Documents shall submit a written request to the Architect. Received in Architect's office at least seven (7) days prior to the date set for receipt of Bids.

Interpretations and corrections of and changes to the Bidding Documents will be made in writing by Addendum only. Changes / interpretations made in any other manner are not binding. Bidders shall not rely upon verbal instructions or information.

**POWER OF ATTORNEY AND BOND REQUIREMENTS:**

Submit with each Bid a bond executed by an attorney-in-fact, including a certified and effectively dated copy of his power of attorney. Where the certification is by facsimile, or otherwise does not bear an original signature, the bonding company must be qualified for recognition under facsimile execution.

**END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS**

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State of Wisconsin Department of Workforce Development Equal Rights Division	<b>DEPARTMENTAL ORDER</b>
<b>ISSUE DATE:</b> 1/22/2014	
<b>PROJECT:</b>	
WAUKESHA COUNTY PARKS - MINOOKA & MUKWONAGO PARK RESTROOMS NEW BERLIN CITY, WAUKESHA COUNTY, WI Determination No. 201400134 [Owner Project No. 14-01]	
<b>PROJECT OWNER:</b>	<b>REQUESTER:</b>
JASON WILKE, SENIOR LANDSCAPE ARCHITECT WAUKESHA COUNTY - DEPT OF PARKS 515 W MORELAND BLVD, RM 230 WAUKESHA, WI 53188	DANIEL KABARA, SENIOR ASSOCIATE ENGBERG ANDERSON, INC. 320 E. BUFFALO ST. SUITE 500 MILWAUKEE, WI 53202
<b>ADDITIONAL CONTACT:</b>	<b>NOTE:</b> The Requester must provide a copy of this Project Determination and enclosures to the Project Owner and Additional Contact.
<p>The department received an application for prevailing wage rate determination for the above-captioned project. The department conducted a survey to determine the prevailing wage rate for the trade(s) or occupation(s) needed to complete the project. The survey's findings appear in the attached project determination.</p> <p>If you believe that the wage rate for any trade or occupation does not accurately reflect the prevailing wage rate in the city, village or town where the project is located, you may ask the department to conduct an administrative review of such wage rate. You must submit this request in writing within 30 days from the date indicated above. Additionally, your request must include wage rate information from at least three similar projects in the city, village or town where the proposed project is located and on which some work has been performed by the contested trade(s) during the current survey period and was previously considered by the department in issuing the attached determination. See DWD 290.10 of the Wisconsin Administrative Code and either s. 66.0903(3)(br), Stats., or s. 103.49(3)(c), Stats., for a complete explanation of the administrative review process.</p> <p>Enclosures</p>	
<p>It is hereby ordered that the prevailing wage rates set forth in the attached project determination shall only be applicable to the above referenced project. This order is a <b>FINAL ORDER</b> of the department unless a timely request for an administrative review is filed with the department.</p> <p><b>ISSUED BY:</b></p> <p style="text-align: center;">         Equal Rights Division          Labor Standards Bureau          Construction Wage Standards Section          P.O. Box 8928, Madison, WI 53708-8928          (608)266-6861       </p> <p style="text-align: center;">         Web Site: <a href="http://dwd.wisconsin.gov/er/">http://dwd.wisconsin.gov/er/</a> </p>	

WAUKESHA COUNTY PARKS - MINOOKA & MUKWONAGO PARK RESTROOMS

PROJECT NO: 14-01

Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: [dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/Dictionary/dictionary\\_main.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/Dictionary/dictionary_main.htm).

Time and one-half must be paid for all hours worked:

- over 10 hours per day on prevailing wage projects
- over 40 hours per calendar week
- Saturday and Sunday
- on all of the following holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25;
- The day before if January 1, July 4 or December 25 falls on a Saturday;
- The day following if January 1, July 4 or December 25 falls on a Sunday.

Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime.

A DOT Premium (discussed below) may supersede this time and one-half requirement.

When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.

If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.

This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.

Pay apprentices a percentage of the applicable journey person's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.

Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project**. A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

**The following statutory provisions apply to local governmental unit projects of public works and are set forth below pursuant to the requirements of s. 66.0903(8), Stats.**

**s. 66.0903 (1) (f) & s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR"** for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

**s. 66.0903 (10) RECORDS; INSPECTION; ENFORCEMENT.**

(a) Each contractor, subcontractor, or contractor's or subcontractor's agent performing work on a project of public works that is subject to this section shall keep full and accurate records clearly indicating the name and trade or occupation of every person performing the work described in sub. (4) and an accurate record of the number of hours worked by each of those persons and the actual wages paid for the hours worked.

**s. 66.0903 (11) LIABILITY AND PENALTIES.**

(a) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided under subd. 2., 3., whichever is applicable.

2. If the department determines upon inspection under sub. (10) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.

3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.

5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

<b>BUILDING OR HEAVY CONSTRUCTION</b>
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Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

<b>SKILLED TRADES</b>
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<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
101	Acoustic Ceiling Tile Installer Future Increase(s): Add \$1.25/hr on 6/2/2014.	33.68	19.81	53.49
102	Boilermaker	31.91	26.49	58.40
103	Bricklayer, Blocklayer or Stonemason Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.37	18.00	53.37
104	Cabinet Installer	30.48	15.90	46.38
105	Carpenter Future Increase(s): Add \$1.25/hr on 6/2/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.68	19.81	53.49
106	Carpet Layer or Soft Floor Coverer	32.93	19.77	52.70
107	Cement Finisher	32.07	17.53	49.60
108	Drywall Taper or Finisher	29.87	19.99	49.86
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.82	22.61	55.43
110	Elevator Constructor	42.86	25.48	68.34
111	Fence Erector	22.15	1.73	23.88
112	Fire Sprinkler Fitter	38.05	19.63	57.68
113	Glazier	34.19	18.25	52.44
114	Heat or Frost Insulator	33.68	23.94	57.62
115	Insulator (Batt or Blown)	15.00	9.50	24.50

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
116	Ironworker Future Increase(s): Add \$.80/hr on 6/1/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	30.52	23.47	53.99
117	Lather	32.93	19.81	52.74
118	Line Constructor (Electrical)	38.25	17.63	55.88
119	Marble Finisher	26.89	19.18	46.07
120	Marble Mason	35.80	16.87	52.67
121	Metal Building Erector	22.05	8.08	30.13
122	Millwright	28.30	24.69	52.99
123	Overhead Door Installer	20.95	4.94	25.89
124	Painter Premium Increase(s): Add \$.20/hr for paperhanging; Add \$.35/hr for bridge, iron and drywall; Add \$.75/hr for spraying and sandblasting; Add \$.60/hr for EIFS work; Add \$1.00/hr for lead based paint removal.	29.52	19.99	49.51
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver Premium Increase(s): Add \$.65/hr for Piledriver Loftsmen; Add \$.75/hr for Sheet Piling Loftsmen. DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	29.56	25.71	55.27
127	Pipeline Fuser or Welder (Gas or Utility)	31.82	19.74	51.56
129	Plasterer	31.56	18.18	49.74
130	Plumber	37.97	17.22	55.19
132	Refrigeration Mechanic	37.76	20.64	58.40
133	Rofer or Waterproofer	29.40	17.05	46.45
134	Sheet Metal Worker	36.17	18.04	54.21
135	Steamfitter	39.26	20.69	59.95
137	Teledata Technician or Installer Future Increase(s): Add \$.85/hr on 6/1/2014; Add \$.86/hr on 6/1/2015. Premium Increase(s):	24.89	17.15	42.04

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
	DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
138	Temperature Control Installer	33.65	1.47	35.12
139	Terrazzo Finisher	26.89	19.18	46.07
140	Terrazzo Mechanic	30.20	18.42	48.62
141	Tile Finisher	23.85	17.18	41.03
142	Tile Setter	29.45	16.30	45.75
143	Tuckpointer, Caulker or Cleaner	34.57	16.42	50.99
144	Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
146	Well Driller or Pump Installer	25.32	15.65	40.97
147	Siding Installer	25.92	18.04	43.96
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.16	14.34	43.50
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	28.74	17.27	46.01

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	33.82	17.60	51.42
203	Three or More Axle	28.02	18.20	46.22
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.60/hr on 5/30/2016.	33.02	18.10	51.12
205	Pavement Marking Vehicle	28.02	18.20	46.22
207	Truck Mechanic	28.02	18.20	46.22

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Premium Increase(s): Add \$.11 for mortar mixer, fork lift operator, air and electric equipment and power buggy operators; Add \$.22 for jackhammer operator, certified welder, gunite machineman.	28.31	16.62	44.93
302	Asbestos Abatement Worker	19.00	0.00	19.00
303	Landscaper	14.28	9.80	24.08
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	19.78	17.04	36.82
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased) Premium Increase(s): DOT PREMIUMS: Pay two times the hourly basic rate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	17.71	16.01	33.72
314	Railroad Track Laborer	13.50	3.59	17.09
315	Final Construction Clean-Up Worker	28.31	16.62	44.93

**HEAVY EQUIPMENT OPERATORS  
SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfgr's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket). Future Increase(s): Add \$1.00/hour 6/2/2014; Add \$1.50/hour 6/1/2015; Add \$1.60/hour 5/30/2016.	34.07	18.10	52.17

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under). Future Increase(s): Add \$1.00/hour 6/2/2014; Add \$1.50/hour 6/1/2015; Add \$1.60/hour 5/30/2016.	34.07	18.10	52.17
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.00/hour 6/2/2014; Add \$1.50/hour 6/1/2015; Add \$1.60/hour 5/30/2016.	34.07	18.10	52.17
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	18.98	57.78
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator.	38.80	18.98	57.78
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	18.98	53.48
507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	18.98	53.48

**HEAVY EQUIPMENT OPERATORS  
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
508	Boring Machine (Directional); Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$1.25/hr on 6/1/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Crane Operators with CCO certification add \$.50/hr. Cranes with boom length over 200 ft. not exceeding 300 ft. OR lifting capacity over 200 ton not exceeding 300 ton add \$.50/hr. Over 300 ton OR 300 ft. add \$.01/hr. per foot OR ton whichever is greater.	40.36	19.15	59.51
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over). Future Increase(s): Add \$1.25/hr on 6/1/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Crane Operators with CCO certification add \$.50/hr.	39.86	19.15	59.01
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.25/hr on 6/1/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Crane Operators with CCO certification add \$.50/hr.	39.36	19.15	58.51

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add \$1.25/hr on 6/1/2014; Add \$1.55/hr on 6/1/2015.	38.67	19.15	57.82
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	30.82	18.96	49.78
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.25/hr on 6/1/2014; Add \$1.55/hr on 6/1/2015.	31.64	19.15	50.79
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment).	36.34	21.14	57.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add \$1.60/hr on 06/01/2014; Add \$1.65/hr on 06/01/2015	33.26	18.55	51.81
516	Fiber Optic Cable Equipment Future Increase(s): Add \$1.75/hr on 02/01/2014.	27.89	17.20	45.09

<b>SEWER, WATER OR TUNNEL CONSTRUCTION</b>
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Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

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**SKILLED TRADES**

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<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.10	18.40	53.50
105	Carpenter Future Increase(s): Add \$1.25/hr on 6/2/2014. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.68	19.81	53.49
107	Cement Finisher Future Increase(s): Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	33.51	16.13	49.64
109	Electrician Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.82	22.61	55.43
111	Fence Erector	22.15	1.73	23.88
116	Ironworker	31.25	19.46	50.71
118	Line Constructor (Electrical)	38.25	17.63	55.88
125	Pavement Marking Operator	16.00	7.35	23.35
126	Piledriver	30.98	15.90	46.88
130	Plumber	33.75	14.07	47.82
135	Steamfitter	39.26	20.69	59.95
137	Teledata Technician or Installer	24.75	16.08	40.83

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
143	Tuckpointer, Caulker or Cleaner	34.57	16.42	50.99
144	Underwater Diver (Except on Great Lakes)	38.80	18.98	57.78
146	Well Driller or Pump Installer	25.32	15.65	40.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.16	14.34	43.50
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.35	34.10

### TRUCK DRIVERS

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	30.00	15.00	45.00
203	Three or More Axle	16.00	7.35	23.35
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	16.00	7.35	23.35
207	Truck Mechanic	16.00	7.35	23.35

### LABORERS

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Premium Increase(s): Add \$1.92 for bottomman; Add \$2.03 for concrete manhole builder, bracer, jointman, or pipelayer; Add \$4.83 for blaster. Add \$2.00 for all tunnel work under 15 lbs. compressed air; Add \$2.00 for 0-30 lbs. compressed air; Add \$3.00 for over 30 lbs. compressed air.	28.84	17.12	45.96
303	Landscaper	25.28	11.46	36.74
304	Flagperson or Traffic Control Person	18.38	13.57	31.95
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.69	15.50	33.19
314	Railroad Track Laborer	13.50	3.59	17.09

**HEAVY EQUIPMENT OPERATORS  
SEWER, WATER OR TUNNEL WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Master Mechanic; Pile Driver. Future Increase(s): Add \$1.05/hr on 6/2/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.	36.84	19.45	56.29
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Dredge (NOT Performing Work on the Great Lakes); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.05/hr on 6/2/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.	36.06	19.45	55.51
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add \$1.05/hr on 6/2/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.	35.11	19.45	54.56

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames. Future Increase(s): Add \$1.05/hr on 6/2/2014; Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.	35.11	19.45	54.56
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.19	20.94	51.13
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	30.44	19.10	49.54
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	18.98	57.78
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	18.98	57.78
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	18.98	53.48
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	18.98	53.48

<b>LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION</b>
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Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

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**SKILLED TRADES**

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Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	35.80	16.87	52.67
105	Carpenter	32.93	19.99	52.92
107	Cement Finisher	30.09	17.53	47.62
109	Electrician	32.20	21.19	53.39
111	Fence Erector	22.15	1.73	23.88
116	Ironworker	30.51	22.97	53.48
118	Line Constructor (Electrical)	38.25	17.63	55.88
124	Painter	29.52	18.79	48.31
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	29.06	25.46	54.52
133	Rofer or Waterproofer	29.40	15.55	44.95
137	Teledata Technician or Installer	24.75	16.08	40.83
143	Tuckpointer, Caulker or Cleaner	34.57	16.42	50.99
144	Underwater Diver (Except on Great Lakes)	38.80	18.98	57.78
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	30.60	14.86	45.46
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.35	34.10

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**TRUCK DRIVERS**

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Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
201	Single Axle or Two Axle	30.00	15.00	45.00

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
203	Three or More Axle	18.00	0.00	18.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	18.00	0.00	18.00
206	Shadow or Pilot Vehicle	30.00	15.00	45.00
207	Truck Mechanic	18.00	0.00	18.00

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer	23.07	18.07	41.14
303	Landscaper Future Increase(s): Add \$1.60/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	29.04	14.63	43.67
304	Flagperson or Traffic Control Person	18.38	13.57	31.95
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.69	15.50	33.19
314	Railroad Track Laborer	13.50	3.59	17.09

**HEAVY EQUIPMENT OPERATORS  
CONCRETE PAVEMENT OR BRIDGE WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
541	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .	36.72	20.40	57.12
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .	36.22	20.40	56.62

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
543	<p>Air Track, Rotary or Percussion Drilling Machine &amp;/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. &amp; Under); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb &amp; Gutter Machine; Concrete Spreader &amp; Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches &amp; A-Frames.</p> <p>Future Increase(s):            Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015;            Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.</p> <p>Premium Increase(s):            DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day &amp; Christmas Day. 2) Add \$1.50/hr night work premium.            See DOT's website for details about the applicability of this night work premium at: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a>.</p>	35.72	20.40	56.12
544	<p>Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed &amp; Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver &amp; Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.</p>	33.96	19.79	53.75
545	<p>Air Compressor (&amp;/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor &amp; Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&amp;/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.</p>	33.82	17.60	51.42
546	Fiber Optic Cable Equipment.	26.69	16.65	43.34

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	38.80	18.98	57.78
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	38.80	18.98	57.78
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	34.50	18.98	53.48
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	34.50	18.98	53.48

**HEAVY EQUIPMENT OPERATORS  
ASPHALT PAVEMENT OR OTHER WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
551	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	39.16	19.10	58.26
552	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .	36.22	20.40	56.62

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b><u>TOTAL</u></b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
553	<p>Air, Track, Rotary or Percussion Drilling Machine &amp;/or Hammers, Blaster; Asphalt Heater, Planer &amp; Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. &amp; Under); Bituminous (Asphalt) Plant &amp; Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb &amp; Gutter Machine; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches &amp; A-Frames.</p> <p>Future Increase(s):                      Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015;                      Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.</p>	35.17	20.05	55.22
554	<p>Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed &amp; Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver &amp; Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler.</p> <p>Future Increase(s):                      Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015;                      Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.</p>	35.17	20.05	55.22

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.75/hr on 6/1/2014; Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT's website for details about the applicability of this night work premium at: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .	35.17	20.40	55.57
556	Fiber Optic Cable Equipment.	26.69	16.65	43.34

\*\*\*\*\* END OF RATES \*\*\*\*\*

Department of Workforce Development  
 Equal Rights Division  
 P.O. Box 8928  
 Madison, WI 53708-8928  
 Telephone: (608) 266-6860  
 Fax: (608) 267-4592  
 TTY: (608) 264-8752



Scott Walker, Governor  
 Reginald J. Newson, Secretary  
 Joe Handrick, Division Administrator

The documents following the Prevailing Wage Rate Determination consist of 18 pages of various forms/documents that will be used throughout the completion of the project. The chart below lists the form number, form/document name, the party who uses the document, and the document's number of pages. If you have any questions regarding these forms please call the Prevailing Wage Office at (608)266-6861.

ERD Form Number	Form Name	Party Who Uses the Form	Pages
16056	Post the White Sheet	Contracting agency	1
16770	Substance Abuse Prevention on Public Works and Publicly Funded Projects, §103.503, Wis. Stats.	All contractors working on public works and publicly funded private construction projects	1
10908	Consolidated List of Debarred Contractors	Any party contracting someone to complete work on a prevailing wage project	2
7777	Disclosure of Ownership	Contractors that meet the criteria set out in (3)(A)&(B) of the form	1
5724	Prime Contractor Affidavit of Compliance	Prime contractor files with contracting agency upon completion of the work before receiving final payment	2
10584	Agent or Subcontractor Affidavit of Compliance	Subcontractors file with their awarding contractor upon completion of their work on the project before receiving final payment	2
10880	Request to Employ Subjourneyperson	Contractors wishing to employ a subjourneyperson(s)	1
	Prevailing Wage - Public Entity Project Owners	Explanation of project owner responsibilities	2
	Prevailing Wage – Contractors	Explanation of contractor responsibilities	2
	Summary of Prevailing Wage Law Changes Effective July 1, 2011	Information for public entity or any other interested party	4

09/01/12

## **POST THE WHITE SHEET**

As the public entity receiving this prevailing wage rate determination, YOU ARE REQUIRED by law to post the prevailing wage rate determination (i.e., white sheet) in at least one conspicuous and easily accessible place on the project site that is available to all construction workers. The white sheet must remain posted from the onset of the project until all construction labor on the project has been completed.

[See, Wis. Admin. Code §DWD 290.12(1)]

Posting the white sheet inside the general contractor's trailer does not meet this requirement. That placement is not available/accessible to all workers and is not a location over which you have control.

If you have questions about posting, please call (608)266-6861 and ask for prevailing wage intake.

## **Disclaimer**

**Employers performing work on public works and publicly funded private construction projects in Wisconsin are required to have a written substance abuse testing program in place. The provisions of this requirement are contained in Sec. 103.503, Wis. Stats. The Department of Workforce Development is neither responsible for enforcement of this law nor authorized to answer questions concerning its provisions. For legal advice on complying with Sec. 103.503, Wis. Stats., you may wish to consult with a private attorney.**

### **103.503 Substance abuse prevention on public works and publicly funded projects. (1) DEFINITIONS.** In this section:

(a) "Accident" means an incident caused, contributed to, or otherwise involving an employee that resulted or could have resulted in death, personal injury, or property damage and that occurred while the employee was performing the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project.

(b) "Alcohol" has the meaning given in s. 340.01 (1q).

(c) "Contracting agency" means a local governmental unit, as defined in s. 66.0903 (1) (d), a state agency, as defined in s. 103.49 (1) (f), or an owner or developer under s. 66.0904 that has contracted for the performance of work on a project.

(d) "Drug" means any controlled substance, as defined in s. 961.01 (4), or controlled substance analog, as defined in s. 961.01 (4m), for which testing is required by an employer under its substance abuse prevention program under this section.

(e) "Employee" means a laborer, worker, mechanic, or truck driver who performs the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project.

(f) "Employer" means a contractor, subcontractor, or agent of a contractor or subcontractor that performs work on a project.

(g) "Project" mean a project of public works that is subject to s. 66.0903 or 103.49 or a publicly funded private construction project that is subject to s. 66.0904.

(2) **SUBSTANCE ABUSE PROHIBITED.** No employee may use, possess, attempt to possess, distribute, deliver, or be under the influence of a drug, or use or be under the influence of alcohol, while performing the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project. An employee is considered to be under the influence of alcohol for purposes of this subsection if he or she has an alcohol concentration that is equal to or greater than the amount specified in s. 885.235 (1g) (d).

(3) **SUBSTANCE ABUSE PREVENTION PROGRAMS REQUIRED.** (a) Before an employer may commence work on a project, the employer shall have in place a written program for the prevention of substance abuse among its employees. At a minimum, the program shall include all of the following:

1. A prohibition against the actions or conditions specified in sub. (2).

2. A requirement that employees performing the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project submit to random, reasonable suspicion, and post-accident drug and alcohol testing and to drug and alcohol testing before commencing work on a project, except that testing of an employee before commencing work on a project is not required if the employee has been participating in a random testing program during the 90 days preceding the date on which the employee commenced work on the project.

3. A procedure for notifying an employee who violates sub. (2), who tests positive for the presence of a drug in his or her system, or who refuses to submit to drug or alcohol testing as required under the program that the employee may not perform work on a project until he or she meets the conditions specified in sub. (4) (b) 1. and 2.

(b) Each employer shall be responsible for the cost of developing, implementing, and enforcing its substance abuse prevention program, including the cost of drug and alcohol testing of its employees under the program. The contracting agency is not responsible for that cost, for the cost of any medical review of a test result, or for any rehabilitation provided to an employee.

(4) **EMPLOYEE ACCESS TO PROJECT.** (a) No employer may permit an employee who violates sub. (2), who tests positive for the presence of a drug in his or her system, or who refuses to submit to drug or alcohol testing as required under the employer's substance abuse prevention program under sub. (3) to perform work on a project until he or she meets the conditions specified in par. (b) 1. and 2. An employer shall immediately remove an employee from work on a project if any of the following occurs:

1. The employee violates sub. (2), tests positive for the presence of a drug in his or her system, or refuses to submit to drug or alcohol testing as required under the employer's substance abuse prevention program.

2. An officer or employee of the contracting agency has a reasonable suspicion that the employee is in violation of sub. (2) and requests the employer to immediately remove the employee from work on the project.

(b) An employee who is barred or removed from work on a project under par. (a) may commence or return to work on the project upon his or her employer providing to the contracting agency documentation showing all of the following:

1. That the employee has tested negative for the presence of drugs in his or her system and is not under the influence of alcohol as described in sub. (2).

2. That the employee has been approved to commence or return to work on the project in accordance with the employer's substance abuse prevention program.

(c) Testing for the presence of drugs or alcohol in an employee's system and the handling of test specimens shall be conducted in accordance with guidelines for laboratory testing procedures and chain-of-custody procedures established by the substance abuse and mental health services administration of the federal department of health and human services.

(5) **LOCAL ORDINANCES; STRICT CONFORMITY REQUIRED.** A local governmental unit, as defined in s. 66.0903 (1) (d), may enact an ordinance regulating the conduct regulated under this section only if the ordinance strictly conforms to this section.

History: 2005 a. 181; 2009 a. 28.

Consolidated List of Debarred Contractors  
Prepared and Issued By  
State of Wisconsin  
Department of Workforce Development

September 1, 2012

This list has been prepared in accordance with the provisions of s. 66.0903(12), s. 66.0904(10) and s. 103.49(7), Stats. and Chapter DWD 294 of the Wisconsin Administrative Code. All contractors on this list were found to have committed a "debarable offense" related to certain labor standard provisions determined or established for a state or local public works project or publicly funded private construction project. No state agency, local governmental unit or owner or developer may knowingly solicit bids from, negotiate with or award any contracts to or approve or allow any subcontracts with a debarred contractor, including all divisions, affiliates or other organizational elements of such contractor that are engaged in construction business activities, until the debarment is terminated. The name of each debarred contractor must remain on this list for a period of three (3) years from the termination date indicated below. The contractor is, however, only "debarred" from the "effective date" through the "termination date" indicated for that contractor. Questions regarding this list should be addressed to Julie Eckenwalder, Equal Rights Division, P. O. Box 8928, Madison, WI 53708 or call (608) 266-3148. Deaf, hearing or speech-impaired callers may contact the department by calling its TDD number (608) 264-8752.

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
Abel, Mike	See, Abel Electric, Inc					
Abel Electric, Inc	3385 Belmar Rd Green Bay, WI 54313	9/1/12	8/31/2015	1	2011	None
Atkins, Scott	See, Freedom Insulation, Inc					
Boecker, Roger	See, R-Way Pumping, Inc					
Castlerock Commercial Construction, Inc	PO Box 11699 Milwaukee, WI 53211-0699	2/1/12	1/31/15	1, 2 and 4	2009 & 2010	None
Custom Heating & Air LLC	283 Tony Lane Green Bay, WI 54304	12/1/06	11/30/09	1, 2 and 4	2003 & 2004	None
Dem/Ex Group, Inc	805 S Adams St Manito, IL 61546	12/1/11	11/30/14	1 and 2	2010	None
Fisher, Ed &/or Fisher, Rhonda	See, Dem/Ex Group, Inc					
Freedom Insulation, Inc	117925 219 <sup>th</sup> Ave Chippewa Falls, WI 54729	9/1/11	8/31/14	1	2008- 2010	None

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
JT Roofing, Inc	350 Tower Dr Saukville, WI 53080	6/1/11	5/31/15	1, 2 and 4	2007 & 2008	None
Jinkins, Richard	See, Castlerock Commercial Construction, Inc.					
Joseph Stoller Company	N8426 Hwy 42 Algoma, WI 54201	2/1/07	1/31/10	1 and 2	2004 & 2005	None
Keiver, David	See, Custom Heating & Air LLC					
Ofstie, Darin	See, Precision Excavating and Grading, LLC					
Precision Excavating and Grading, LLC or Precision Excavating Enterprises, LLC	2104 Pierce Saint Croix Rd Baldwin, WI 54002	5/1/11	4/30/14	1, 2 and 4	2006- 2008	None
R-Way Pumping, Inc	3023 Lake Maria Rd Freeport, MN 56331	3/1/12	2/28/15	1, 2 and 4	2008	None
Stoller Enterprises LLC	N8426 Hwy 42 Algoma, WI 54201-9552	2/1/2007	1/31/10	1 and 2	2005 to 2006	None
Stoller, Joseph	See, Joseph Stoller Company					
Stoller, Patrick J	See, Stoller Enterprises LLC					
Thull, Gerald T	See, JT Roofing, Inc.					

Cause Code: 1 = Failure to Pay Straight Time 2 = Failure to Pay Overtime 3 = Kickback 4 = Payroll Records.

## Disclosure of Ownership

The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d), 66.0904(10)(d) and 103.49(7)(d), Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1) (m), Wisconsin Statutes]

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency, local governmental unit, or developer, investor or owner on a project subject to Section 66.0903, 66.0904 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency, local governmental unit, or developer, investor or owner, the name of any "other construction business", which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.
- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 66.0904(2), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency project owner, local governmental unit project owner, or developer, investor or owner of a publicly funded private construction project that will be awarding the contract, if **both (A) and (B) are met.**
- (A) The contractor, or a shareholder, officer or partner of the contractor:
- (1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.
  - (2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
- (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for

### Other Construction Business

Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code

**I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.**

Print the Name of Authorized Officer			
Signature of Authorized Officer		Date Signed	
Name of Corporation, Partnership or Sole Proprietorship			
Street Address or P O Box	City	State	Zip Code

**If you have any questions call (608) 266-6861**

## Prime Contractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(c), 66.0904(7)(c) and 103.49(4r)(c) Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Agency** indicated below.

State Of )	Project Name		
	DWD Determination Number	Project Number (if applicable)	
County Of )  )SS	Date Determination Issued		Date of Contract
	Awarding Agency		
	Date Work Completed		

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below and have recently completed all of the work required under the terms and conditions of a contract with the above-named awarding agency and make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(c), 66.0904(7)(c) or 103.49(4r)(c), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding agency.
- **I have** fully complied with all the wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding agency indicated above.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address	City	State	Zip Code	Telephone Number
Print Name of Authorized Officer			Date Signed	
Signature of Authorized Officer				

## List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

## Agent or Subcontractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(b), 66.0904(7)(b) and 103.49(4r)(9b), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, Section 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Contractor** indicated below.

State Of _____ )  )SS  County Of _____ )	Project Name	
	DWD Determination Number	Project Number (if applicable)
	Date Determination Issued	Date of Subcontract
	Awarding Contractor	
	Date Work Completed	

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below. We have recently completed all of the work required under the terms and conditions of a subcontract with the above-named awarding contractor. We make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(b), 66.0904(7)(b) or 103.49(4r)(b), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding contractor.
- **I have** fully complied with the entire wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding contractor.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address or PO Box	City	State	Zip Code	Telephone Number (    )
Print Name of Authorized Officer			Date Signed	
Authorized Officer Signature				

## List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
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Street Address			Street Address		
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Telephone Number (    )			Telephone Number (    )		
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City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		

**If you have any questions call (608) 266-6861**

## Request to Employ Subjourneyperson

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04(1)(m), Wisconsin Statutes).

The employer indicated below requests that the Department of Workforce Development (DWD) determine the prevailing wage rate(s) and related qualifications to enable such employer to use a subjourneyperson(s) on the following prevailing wage project, in accordance with the provisions of Section DWD 290.025, Wisconsin Administrative Code.

1. Name of Project Appearing on the Project Determination		
County	City, Village or Town	
DWD Project Determination Number	Project Number (if applicable)	
2. Job Classification(s) for which you request a subjourney rate (i.e., carpenter, electrician, plumber, etc.)		
a.	b.	
c.	d.	
3. Employer Name (Print)		
Address	City	State
Telephone Number (       )	Requester Title	
Email address (if you prefer to receive your response via email)	Fax Number (if you prefer to receive your response via fax) (       )	

**READ CAREFULLY:** I understand that this request is ONLY applicable to the project and job classification(s) listed above and that subjourney employees primarily work under the direction of and assist a skilled trade employee by frequently using the tools of a skilled trade and will NOT regularly perform the duties of a general laborer, heavy equipment operator or truck driver. If the subjourney employee regularly performs the work of a different trade or occupation, he/she will be compensated for such work at the applicable journeyperson prevailing wage rate. I agree to compensate subjourney employees in strict accordance with the directions received from the DWD.

Requester Signature	Date Signed
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MAIL the completed request to:  
 EQUAL RIGHTS DIVISION, LABOR STANDARDS BUREAU  
 PO BOX 8928, MADISON WI 53708  
**OR**  
 FAX the completed request to: (608) 267-0310 / **DO NOT e-mail your request.**  
 Call (608) 266-6861 for assistance in completing this form.

Department of Workforce Development  
Equal Rights Division  
P.O. Box 8928  
Madison, WI 53708-8928  
Telephone: (608) 266-6860  
Fax: (608) 267-4592  
TTY: (608) 264-8752



Scott Walker, Governor  
Reginald J. Newson, Secretary  
John P. Conway, Division Administrator

## PREVAILING WAGE – Public Entity Project Owners

Any public works project that has a total estimated project cost that equals or exceeds single-trade or multiple-trade project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for each of these exclusions. The prevailing wage law that applies to local governmental units is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies is §103.49, Wis. Stats. The applicable administrative rules for all public entities are DWD 290 and DWD 294, Wis. Adm. Code.

### Thresholds

A "single-trade project of public works" means a project in which a single trade accounts for 85% or more of the total labor cost of the project. The single trade threshold is \$48,000.

A "multiple-trade project of public works" means a project in which no single trade accounts for 85% or more of the total labor cost of the project.

(a) The multiple-trade threshold is \$100,000, unless a municipality falls under the description in (b).

(b) The multiple-trade threshold of \$234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for •a city or village with a population less than 2500 or •a town.

Effective July 1, 2011, a local governmental unit or state agency that has a public works project that equals or exceeds the prevailing wage thresholds must do all of the following:

- Request a prevailing wage rate determination for the project from DWD at least 30 days before soliciting bids or negotiating contracts. An Application for Prevailing Wage Rate Determination is available on the DWD website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm)

To avoid waiting for a project determination use the on-line application system that permits the user to generate a determination immediately and save all documents in PDF form to the user's computer. Use this project determination on line application at the following address:

[http://dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/pw\\_online\\_determinations.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/pw_online_determinations.htm)

- Tell potential contractors the project is subject to state prevailing wage law when soliciting bids.
- Include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each prime contractor.
- Award contracts to contractors who do *not* appear on the “Consolidated List of Debarred Contractors.”
- Post the prevailing wage rate determination on the project site. (This document is often referred to as “the white sheet.”)
- Notify project contractors that if DWD finds that a contractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.
- Obtain an Affidavit of Compliance from each prime contractor before making final payment for the project.

If the total estimated cost of the project exceeds the prevailing wage thresholds, a local governmental unit or state agency also must obtain a prevailing wage rate determination under the following circumstances:

- when a completed facility is leased, purchased, lease-purchased or otherwise acquired by or dedicated to a public entity in lieu of the public entity contracting for the project,
- when one public entity does work for another public entity,
- when a *private* entity will construct a road, street, bridge, sanitary sewer or water main project and dedicate it to a local governmental unit or the state for its ownership or maintenance (except for some residential subdivisions).

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

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## PREVAILING WAGE – Contractors

Any public works project that has a total estimated project cost that equals or exceeds prevailing wage project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for each of these exclusions. The prevailing wage law that applies to local governmental units and their contractors is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies and their contractors is §103.49, Wis. Stats. The applicable administrative rules for all prevailing wage projects are DWD 290 and DWD 294, Wis. Adm. Code. These laws include provisions that apply to all contractors and subcontractors working on prevailing wage projects.

Effective July 1, 2011, any contractor or subcontractor working on a local governmental unit or state agency's public works project that equals or exceeds current prevailing wage project thresholds must do all of the following:

- Receive and review the project's prevailing wage rate determination (i.e., white sheet).
- Tell subcontractors the project is subject to state prevailing wage law and include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each subcontractor.
- Hire subcontractors who do *not* appear on the "Consolidated List of Debarred Contractors."
- Notify subcontractors that if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

- Apply to DWD for subjourney wage rates prior to employing these individuals on the project.
- Receive and retain a completed Affidavit of Compliance from each subcontractor brought on to the project before providing final payment to those subcontractors.
- Submit a completed Affidavit of Compliance to the contractor who brought the subcontractor on to the project before receiving final payment for the project.
- Maintain payroll records for 3 years that comply with §§66.0903(10)(a) or 103.49(5)(a), Stats. and DWD 274.06.
- Respond to requests from DWD or the project owner to provide payroll records and/or respond to prevailing wage complaints filed by employees or third parties.

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

## SUMMARY OF PREVAILING WAGE LAW CHANGES EFFECTIVE JULY 1, 2011

(This document updated 07/27/11)

For further updates on this topic, refer to the prevailing wage website at:  
[http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm)

The recently approved State budget bill (2011 Wisconsin Act 40) includes major changes to prevailing wage laws (§§66.0903, 66.0904, 103.49 & 103.50, Wis. Stats.) effective JULY 1, 2011. Significant changes are described below.

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Thresholds	All public entities & Contractors	The \$25,000 threshold for public works projects has been changed to single-trade and multiple-trade project thresholds as noted below. The new thresholds apply to prevailing wage projects whose prime contract is awarded after June 30, 2011.
Non-applicability: Threshold for Single-Trade Projects	All public entities & Contractors	Any single-trade project of public works with an estimated cost of completion of less than \$48,000 does not require a prevailing wage rate determination. "Single-trade project of public works" means a project of public works in which a single trade accounts for 85 percent or more of the total labor cost of the project.
Non-applicability: Threshold for Multiple-Trade Projects	All public entities except cities, towns & villages as noted below & Contractors	Any multiple-trade project of public works with an estimated cost of completion of less than \$100,000 does not require a prevailing wage rate determination. "Multiple-trade project of public works" means a project of public works in which no single trade accounts for 85 percent or more of the total labor cost of the project.
Non-applicability: Threshold for Multiple-Trade Projects	Cities or villages with a population less than 2500 & Towns & Contractors	A multiple trade project of public works erected, constructed, repaired, remodeled, or demolished by a private contractor for a city or village with a population less than 2500, or a town with an estimated cost of completion of less than \$234,000 does not require a prevailing wage rate determination. "Multiple-trade project of public works" means a project of public works in which no single trade accounts for 85 percent or more of the total labor cost of the project.
Non-applicability: Minor service & maintenance work	Towns & Contractors	The following TOWN projects only do not require a prevailing wage rate determination: <ul style="list-style-type: none"> <li>• A project not funded under §86.31, Stats. (TRIP projects) that is limited to minor crack filling, chip or slurry sealing or other minor pavement patching, not including overlays.</li> <li>• The depositing of gravel on an existing gravel road applied solely to maintain the road;</li> <li>• Road shoulder maintenance;</li> <li>• Cleaning drainage or sewer ditches or structures;</li> <li>• Any other limited, minor work on public facilities or equipment that is routinely performed to prevent breakdown or deterioration.</li> </ul>
Non-applicability: Work which a contractor or individual donates to a public entity	All public entities	Prevailing wage laws §§66.0903 & 103.49, Stats., do not apply to work performed on a project of public works for which the local governmental unit or the state or the state agency contracting for the project is not required to compensate any contractor, subcontractor, contractor's or subcontractor's agent, or individual for performing the work.

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Non-applicability: Residential	All public entities	A prevailing wage rate determination is not required for the erection, construction, repair, remodeling, or demolition of a residential property containing 2 dwelling units or less.
Non-applicability: Residential subdivision infrastructure	All public entities	A prevailing wage rate determination is not required for a road, street, bridge, sanitary sewer, or water main project that is a part of a development in which at least 90 percent of the lots contain or will contain 2 dwelling units or less, as determined by the local governmental unit at the time of approval of the development, and that, on completion, is acquired by, or dedicated to, a local governmental unit (including under §236.13(2), Stats.), or the state, for ownership or maintenance by the local governmental unit or the state.
Non-applicability: Certain nursing homes	All public entities	Prevailing wage law §66.0903, Stats., does not apply to a project of public works involving the erection, construction, repair, remodeling, or demolition of a nursing home in a county having a population of less than 50,000 when the project commences no later than July 1, 2012.
Electronic certified payroll record	Contractors	The requirement that every contractor on a prevailing wage project submit to DWD monthly a certified record of employees who worked on the project and that DWD post these certified records on its Internet website is discontinued effective July 1, 2011. However, contractors who worked on prevailing wage projects during the period January 1, 2010 through June 30, 2011, must comply with the repealed law for work completed on projects during that period of time.
Payroll record inspection request by any person	Contractors & Complainants	Any person may request DWD to inspect the payroll records of any contractor working on a prevailing wage project. On receipt of such a request, the contractor must submit to DWD a certified record of its payroll records, other than personally identifiable information relating to an employee of the contractor, for no longer than a 4-week period. DWD may request records from a contractor under this provision no more than once per calendar quarter for each project of public works on which the contractor is performing work. The department may not charge a requester a fee for obtaining that information. DWD must make these certified records available for public inspection.
Complaints	Complainants	There are no longer investigation fees.
Statewide uniformity	Local governmental units	A local governmental unit may not enact & administer a prevailing wage ordinance/provision for public works or publicly funded private construction projects. Any extant laws to that effect are void.

Topic	Who's affected?	Brief description of requirement under §66.0903, §103.49 or §103.50
Covered employees	Truck drivers & Other workers & Contractors	<p>A laborer, worker, mechanic, or truck driver who is employed to process, manufacture, pick up, or deliver materials or products from a commercial establishment that has a fixed place of business from which the establishment supplies processed or manufactured materials or products or from a facility that is not dedicated exclusively, or nearly so, to a project of public works is NOT entitled to receive the prevailing wage rate UNLESS any of the following applies:</p> <ol style="list-style-type: none"> <li>1) the laborer, worker, mechanic, or truck driver is employed to go to the source of mineral aggregate such as sand, gravel, or stone and deliver that mineral aggregate to the site of a project of public works by depositing the material directly in final place, from the transporting vehicle or through spreaders from the transporting vehicle.</li> <li>2) the laborer, worker, mechanic, or truck driver is employed to go to the site of a project of public works, pick up excavated material or spoil from the site of the project, and transport that excavated material or spoil away from the site of the project.</li> </ol>
Annual Prevailing Wage Survey	All public entities	When establishing yearly prevailing wage rates, DWD may not use data from any construction work that is performed by a local governmental unit or a state agency.
Prevailing Wage Rates	DOT & Contractors & Employees	For state highway prevailing wage rates, DWD is required to include wage rates for work performed on Sundays, holidays and shift differentials based on the time of day or night when work is performed.

The 2009-2011 State budget bill (2009 Wisconsin Act 28) created a new prevailing wage law (§66.0904, Wis. Stats.) for PUBLICLY FUNDED PRIVATE CONSTRUCTION PROJECTS effective January 1, 2010. The current 2011-2013 State budget bill (2011 Wisconsin Act 32) REPEALS this law. So the publicly funded private construction projects law only applies to projects that awarded the prime contract during the period January 1, 2010 through June 30, 2011.

**SINGLE & MULTIPLE TRADE PROJECT THRESHOLDS  
FOR §§66.0903 & 103.49, Wis. Stats.  
Effective July 1, 2011**

The \$25,000 threshold for public works projects has been changed to single-trade and multiple-trade project thresholds as described below. Projects of public works with total estimated costs of completion that equal or exceed these thresholds require a prevailing wage rate determination.

**SINGLE-TRADE THRESHOLD**

A “single-trade project of public works” means a project in which a single trade accounts for 85 percent or more of the total labor cost of the project.

The single trade threshold is \$48,000.

**MULTIPLE-TRADE THRESHOLDS**

A “multiple-trade project of public works” means a project in which no single trade accounts for 85 percent or more of the total labor cost of the project.

(a) The multiple-trade threshold is \$100,000, unless a municipality falls under the description in (b).

(b) The multiple-trade threshold of \$234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for:

- a city or village with a population less than 2500, or
- a town

**APPLYING THE NEW THRESHOLDS**

The department will apply the new single-trade & multiple-trade prevailing wage thresholds to projects of public works for which the prime contract is awarded on or after July 1, 2011.



- B. Address the envelope to:  
Waukesha County DOA  
Risk/Purchasing Division  
Administration Center, Room 310  
515 W. Moreland Blvd.  
Waukesha, WI 53188
- C. Bidders shall affix their name and address to the front upper left-hand corner of the envelope with the words "Sealed Bid Enclosed" written on the outside. Identified in lower left corner should be: Bid number, Project name and opening date.
- D. NOTE: If you are delivering your response in person, you must enter through the main courthouse public entrance, 515 W. Moreland Blvd. and deliver it to the Department of Administration receptionist in Room 310 of the Administration Center to be time-stamped no later than BID CLOSING on the opening date. Controlled access screening is mandatory for all vendors seeking access to the Courthouse and Administration Building. Vendors who will be visiting either building are to enter and exit the facilities through the main Courthouse public entrance (Door #2), 515 W. Moreland Blvd. Screening will take place in the lobby of the Courthouse. A corridor near the Courthouse lobby connects both buildings together. Click on the following link for more detailed information regarding the screening process:  
<http://www.waukeshacounty.gov/defaultwc.aspx?id=37689>. A map of the Government Center campus identifying public access points and parking areas is also included at the bottom of the page. Allow sufficient time to get through the screening process if you are hand delivering your responses or attending a meeting.

### 3. BID CLOSING

- A. Bids must be submitted on or before 10:30 a.m. on March 4, 2014. The Bidder assumes full responsibility for timely delivery at the location designated for receipt of Bids.
- B. Bids received after the time and date for receipt of Bids will be rejected and returned unopened.

### 4. BID OPENING

- A. A public Bid opening will be held at 10:30 a.m. on March 4, 2014 at the Waukesha County Administration Center, Room 310, 515 W. Moreland Blvd., Waukesha, Wisconsin.

We \_\_\_\_\_  
(a corporation)  
(a partnership)  
(an individual)  
(Cross out inapplicable)

Of \_\_\_\_\_  
Street City County State Zip

hereby agree to execute the proposed Contract and to furnish a satisfactory Public Improvement Performance/Labor and Material Payment Bond, in the amount of one hundred percent (100%), and to provide all labor and material required for the construction of the designated work, for the prices hereinafter set forth, in strict accordance with the Construction Documents released by: Engberg Anderson Inc, 320 East Buffalo Street, Suite 500, Milwaukee Wisconsin, dated February 4, 2014.

Including Amendment Nbr(s). \_\_\_\_\_ dated \_\_\_\_\_.

**5A. BASE BID NUMBER ONE: MINOOKA PARK AREAS 1/2**

Base Bid includes all work required to complete **the Project at Minooka Park - Areas 1/2**, including Building Permits, General Conditions, overhead, profit, insurance, bonds, taxes, and all other expenses. Bid Guarantee, ten percent (10%) Bid Bond Cost, Public Improvement Performance Bond and Labor and Materials Payment Bond Cost one hundred percent (100 %) for the sum of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**5B. BASE BID NUMBER TWO: MINOOKA PARK AREAS 5**

Base Bid includes all work required to complete **the Project at Minooka Park - Areas 5**, including Building Permits, General Conditions, overhead, profit, insurance, bonds, taxes, and all other expenses. Bid Guarantee, ten percent (10%) Bid Bond Cost, Public Improvement Performance Bond and Labor and Materials Payment Bond Cost one hundred percent (100 %) for the sum of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**5C. BASE BID NUMBER THREE: MUKWONAGO PARK AREAS 2/3**

Base Bid includes all work required to complete **the Project at Mukwonago Park - Areas 2/3**, including Building Permits, General Conditions, overhead, profit, insurance, bonds, taxes, and all other expenses. Bid Guarantee, ten percent (10%) Bid Bond Cost, Public Improvement Performance Bond and Labor and Materials Payment Bond Cost one hundred percent (100 %) for the sum of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**5D. BASE BID SCHEDULE:**

**Minooka Park - Areas 1/2:**

Start Procurement and Construction: No later than March 31, 2014.  
Substantial Completion: No later than September 1, 2014.

**Minooka Park - Area 5:**

Start Procurement and Construction: March 31, 2014.  
Substantial Completion: No later than September 1, 2014.

**Mukwonago Park - Areas 2/3:**

Start Procurement and Construction: No later than March 31, 2014.  
Substantial Completion: No later than September 1, 2014.

**6. COMMENCEMENT, PROGRESS AND COMPLETION OF WORK**

- A. If written Notice of Intent to Award Contract is issued not later than **March 17, 2014**, with a Project commencement of **March 31, 2014** can you complete the Work in compliance with the requirements of the Contract Documents by as noted in the Base Bid, in full cooperation and coordination with other Prime Contractors, if any.

Yes \_\_\_ No \_\_\_ .

If "No", state additional calendar days required:

- B. The undersigned understands that time is of the essence and agrees that the specified time period for completion stated above is a reasonable time for the completion of the Work. All time limits shall be binding.

**7. BID ACCEPTANCE:**

- A. All Bids as stated above are effective and open for acceptance by the Owner for a period of sixty (60) days after date set for opening of Bids.

**FIRM NAME:** \_\_\_\_\_

**BY SIGNATURE:** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**DATED:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**FAX NBR:** \_\_\_\_\_

**EMAIL ADDRESS:** \_\_\_\_\_

If a corporation, answer the following:

Incorporated under laws of what state?

SEAL \_\_\_\_\_ (If Bid is by Corporation)

**Attachments:**

1. Non-Collusion Affidavit (1 page)
2. Bidders Proof of Responsibility (2 pages)
3. Informational Attachment to Bid Form (2 pages)
4. Bid Bond (10%) by Contractor.

**NON-COLLUSION AFFIDAVIT:**

City of

County of

State of

being first duly sworn, deposes and says that he is:

(Sole Owner, Partner, President, etc. )

of:

The party making the foregoing bid affirms that such is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such other person shall refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, communication, or conference, with any person to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the Waukesha County Department of Public Works or any person or persons interested in the proposed contract; and that all statements contained in said bid are true; further, that such bidder has not, directly or indirectly submitted this bid, or the contents thereof, or divulged information or data relative thereto to any association or to any member or agent thereof.

(Affiant)

Sworn and subscribed before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

(Notary Public in and for)

**BIDDER'S PROOF OF RESPONSIBILITY**

Bidders Proof of Responsibility is to be provided to Owner at time of Bid submittal.

Note: This information is required by Section 66.0901(2) of the Wisconsin Statutes. Contents of the completed form will be considered confidential.

**STATEMENT OF BIDDER'S QUALIFICATIONS**

Official Firm Name:

Telephone:                      Fax:                                      E-Mail:

City, State and Zip Code:

Date Organized:                                      Where incorporated:

Federal Tax Identification No.:

How many years have you been in business under the present firm name?

Same business under a former name:

Contracts on hand. Include gross amount of each contract and the probable completion date.

What is the general character of the work performed by your firm?

Have you ever failed to complete any work awarded to you?

If "YES", give location and reason. (Attach statement if necessary.)

Have you ever defaulted on a contract? \_\_\_\_\_ If "YES" attach statement giving particulars.

Is/has your firm been barred from doing business with either the State of Wisconsin or the Federal Government, or is any such action pending? \_\_\_\_\_ If yes, attach statement stating the reason(s) for the debarment and the dates(s) your firm was debarred.

List some important contracts completed by your firm giving kind of work and approximate cost.

Attach a list of officers of your firm and the principal members of your personnel with brief statement of background and experience of each. Furnish written evidence, preferably from your bank, of credit available to you.

**BIDDER'S PROOF OF RESPONSIBILITY (CONTINUED)**

Financial statement: At close of business on \_\_\_\_\_, 20\_\_.

<u>Assets</u>		<u>Liabilities</u>	
Accounts Receivable	\$ _____	Accounts, Notes and Interest Payable	\$ _____
Real Estate Equity	\$ _____	Other Liabilities	\$ _____
Materials in Stock	\$ _____		\$ _____
Equipment	\$ _____		\$ _____
Furniture, Fixtures	\$ _____		\$ _____
Other Assets	\$ _____		\$ _____
TOTAL ASSETS	\$ _____	TOTAL LIABILITIES	\$ _____
		YOUR NET WORTH	\$ _____

Additional or explanatory information on the above may be submitted if desired.

Dated at \_\_\_\_\_ on \_\_\_\_\_, 20\_\_.

Firm Name: \_\_\_\_\_

By: \_\_\_\_\_ Title: \_\_\_\_\_

State of \_\_\_\_\_

County of \_\_\_\_\_ being duly

sworn, says he/she is \_\_\_\_\_ of \_\_\_\_\_

and that the answers to the foregoing questions and all statements attached are true and correct.

Signed

Subscribed and sworn to before me this \_\_\_ day of \_\_\_\_\_, 20\_\_.

Notary Public

State of

My Commission Expires:



**INFORMATIONAL ATTACHMENT TO BID FORM (CONTINUED)**

3. The names, business address, phone/fax numbers, and class of work of the principal Subcontractors proposed for applicable parts of the Work are: (Include earthwork, paving, concrete, masonry, steel, carpentry, architectural woodwork, roofing, drywall, painting, elevator, plumbing, fire protection, HVAC, electrical, etc.).

We understand that the successful Bidder/Contractor shall establish to the acknowledged acceptance and satisfaction of the Owner the competence, the reliability and responsibility of the persons or entities proposed to administer, supervise, furnish and perform the Work required by the Bidding and Contract Documents. Any deviations from the above listed information shall also be approved by the Owner.

FIRM NAME

BY

TITLE

DATED

SEAL

(If Bid is by Corporation)

\*\*\*

**END OF BID FORM**

## GEOTECHNICAL DATA

### 1.1 GEOTECHNICAL DATA

- A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions. This Document and its attachments are not part of the Contract Documents.
- B. Soil Observation Report for Minooka Park Area 1-2, performed by LandMark Engineering Services, Inc. dated 16 Nov 2012, is available for viewing as appended to this Document.
- C. Soil Observation Report for Minooka Park Area 5, performed by LandMark Engineering Services, Inc. dated 16 Nov 2012, is available for viewing as appended to this Document.
- D. Soil Observation Report for Mukwonago Park Area 2-3, performed by LandMark Engineering Services, Inc. dated 4 Oct 2013, is available for viewing as appended to this Document.

**END OF GEOTECHNICAL DATA**

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# LANDMARK

ENGINEERING SCIENCES, INC.

3021 MINOT LANE, SUITE 200, WAUKESHA, WISCONSIN 53188-4453

TELEPHONE: 414-719-2769

EMAIL: [LandMark-Engineering@live.com](mailto:LandMark-Engineering@live.com)

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## Soil Observation Report

<b>Project:</b>	Picnic Area(s) 1-2	<b>Project No.:</b>	2097.00
<b>Location:</b>	Minooka Park, City of Waukesha, WI	<b>Date(s):</b>	16 NOV 2012
<b>Client:</b>	Waukesha County	<b>Time(s):</b>	0900–1030
<b>Contractor:</b>	Badgerland Soil Testing	<b>Weather:</b>	Mostly sunny, mid 30s °F
<b>Present:</b>	Mark Augustine -- LandMark Engineering Roger Hilmer -- Badgerland Soil Testing Alice Slusher & Jason Wilke -- Waukesha County	<b>Equipment:</b>	Tracked mini-excavator Soil penetrometer & probe

### OBSERVATIONS:

LANDMARK ENGINEERING SCIENCES, INC. (LandMark) arrived at the site on November 16, 2012 at the request of Waukesha County (client) to conduct a geotechnical evaluation of the proposed foundation subgrade and groundwater conditions for a public restroom building. One (1) soil test pit (B-5) was advanced to evaluate the foundation subgrade and existing groundwater conditions for the proposed slab-on-grade building. LandMark assumes the structure will utilize exterior load bearing walls supported by continuous spread footings. Based on this type of construction, the structural loads are anticipated to be light.

A review of the *1998 Soil Survey of Milwaukee and Waukesha Counties, Wisconsin*, prepared by the U.S. Department of Agriculture, Natural Resources Conservation Service, indicates the soils within the site building area are primarily Lamartine silt loam (LmB) series. Based on the soil survey, Lamartine soils generally are somewhat poorly drained, moderately permeable soil formed in silty deposits (loess) over calcareous loamy till. Soil profile is characterized by silt loams underlain by silt clay loams and clay loams, transitioning to loam within the upper sixty inches (60"). The soil survey also indicates the seasonal high groundwater table depth is at 12" to 36" below the ground surface (bgs) for this soil series; i.e., the soils are considered to have hydric inclusions.

Soil observations were conducted via test pit using a tracked, mini-excavator. One (1) soil test pit (elev. 920.16' MSL) was advanced east of the existing parking lot within the proposed restroom building footprint. LandMark collected and catalogued soil samples from the test pit at various depths, according to the soil profiles observed. Load resistance indicators were tested via various soil penetrometer techniques. Observed soils were then classified via Visual-Manual methods (ASTM 2387) according to USDA SCS guidelines. The test pit was advanced to a depth of approximately 6.5' bgs.

The soils encountered at the test pit location generally consisted of 18" of moist, silt loam topsoil underlain by 10" of moist, silt loams. This was underlain by about 14" of moist to wet, clay loams, which transitioned to wet, mottled, gravelly clay loams for 18" and gravelly silt loams for the remaining 18" until test pit termination depth was reached (see attached *Soil Evaluation Report* for detailed soil profile information).

Groundwater was not observed during excavation activities to the termination depth of 6.5' bgs. However, LandMark estimates the apparent seasonal high groundwater level at 3.5' bgs (elev. 916.66' MSL) due to the observed redox indicators and moisture content of recovered soils at that depth.

CONCLUSIONS / RECOMMENDATIONS CONVEYED DURING SITE VISIT(S):

**LandMark concludes that:**

- 1) The clay loam soils present at 2.33' bgs (elev. 917.83' MSL) are considered suitable to support a footing design load of  $\leq 3,000$  psf. All foundations for the proposed restroom building must extend to or below this elevation to be supported by suitable load bearing soils.**
- 2) Laboratory bench tests indicate that the fine soil particles within the native material make these soils susceptible to loss of load resistance capacities due to changes in moisture content, overburden removal and/or construction traffic. Thus, LandMark strongly recommends that excavation and construction activities related to the footing installations be conducted during dry and/or cold ( $< 32^{\circ}\text{F}$ ) weather to minimize changes in the soil moisture. If this is not possible, every effort must be made by the contractors to protect the excavation from rainfall runoff and to not let water pool in the bottom of the excavation. Also, the contractor must minimize construction traffic from equipment and workers until after footings are poured.**
- 3) Groundwater was not observed in the soil test pit. However, indicators of soil redoxification (redox) were observed in the soil profile at 42" bgs (elev. 916.66' MSL). Based on field observations and the observed redox indicators, a conservative estimate for the apparent seasonal high groundwater level based on COMM 85 standards is at elev. 916.66' MSL. Note that groundwater levels may fluctuate both seasonally and annually and they may differ from the levels observed during our field exploration.**
- 4) Based on the apparent seasonal high groundwater level and Waukesha County Storm Water Ordinance requiring the lowest floor elevations be set at least 1' above the apparent seasonal high groundwater level, the restroom floor elevation must be  $\geq 917.66'$  MSL.**

The proposed building may be supported by a conventional spread footing system, bearing directly on the native soils or structural compacted fill used to raise low areas. In general, the soil conditions encountered at and below 28" bgs at the soil boring location should allow for a net allowable soil bearing pressure of 3,000 psf.

It must be recognized that subsurface conditions may change across the proposed building footprint, even though initial indications are that the site soil conditions appear relatively consistent within the proposed building footprint area. If weather conditions are wet, some nominal over-excavation below planned footing grade may be necessary to ensure that the footings extend to suitable load bearing soils. LandMark recommends that the actual foundation soil load bearing capacity be verified during construction by a qualified geotechnical engineer or technician so foundations are founded within suitable load bearing soils or the appropriate subgrade improvements are provided.

Backfilling of over-excavated areas should be done up to the footing base elevation in maximum eight inch (8") thick loose lifts. Backfill materials should be suitable granular fill material compacted in-place to at least 95% of the Modified Proctor maximum dry density (ASTM D-1557). Alternatively, footings may also be designed to bear upon a lean mix concrete fill founded on the undisturbed, suitable soils. If lean mix concrete fill is used, the footing over-excavation will need to extend a minimum of six-inches (6") beyond each face of the footing.

After excavation, footing trenches should be observed, the support soils tested and approved, and the foundations constructed as quickly as possible to avoid exposing the support soil to wetting and drying affects and/or freezing

conditions. Excavated footing lines may require water removal prior to forms being placed. Surface runoff water must be directed away from the excavation and not allowed to pond. If possible, the foundation concrete should be placed during the same day the footings are excavated. If the footing excavation be left open for more than a day, the footings should be protected to minimize changes in soil moisture content and to prevent frost from setting into the soil during winter months.

To minimize frost penetration below foundations, it is recommended that all foundations bear at a minimum depth of 4' below the lowest adjacent finished exterior grade. In order to minimize the effects of slight differential soil settlement that may occur, lateral steel reinforcement is recommended within the footing forms.

If structural filling activities are required for site grading, the subgrade should be properly prepared prior to filling activities and all fill should be placed in a controlled manner. This should be monitored and tested by a representative of the geotechnical engineer. Recommendations for subgrade preparation and compaction follow.

LandMark assumes that the topography observed will require some fill to obtain probable final grade elevations around the restroom structures. Before placing fill or constructing slabs, any unsuitable load-bearing surface materials must be removed (stripped) from a minimum of 5' beyond all proposed building and pavement areas. Unsuitable load-bearing surface materials include such items as vegetation, topsoil, root-balls of trees and bushes, existing buildings and pavements, deleterious debris, organic soils, etc. We recommend that the removal/stripping depths be observed and approved by a representative of a qualified geotechnical engineer during grading work. The actual topsoil removal/stripping depths need to be based on organic content and soil stability.

LandMark also recommends that a representative of a qualified geotechnical engineer test the building pad and structural fill subgrade areas to detect areas of unsuitable load bearing soil. These soil areas can be verified by the geotechnical engineer field-testing and approving areas of concern. Any unstable soils detected within the building pad, pavement, or structural fill subgrade areas can be scarified and compacted in-place, removed and replaced with compacted structural fill material, or mechanically stabilized. The unstable soil removal depths and the stabilization methods used will need to be determined by the qualified geotechnical engineer on a case-by-case basis according to the construction site conditions.

In general, the performance of the foundation systems on this site will depend on the various factors discussed above. The soil bearing pressures suggested should be used for preliminary planning only in the evaluation of the general site feasibility.

Floor slabs should be at least four inches (4") thick and should be properly reinforced to resist differential movement and shrinkage cracking. Also, the floor slabs should not be rigidly connected to columns, walls, or foundations. A subgrade modulus (k) of 150 pounds per cubic inch (pci) may be used for the floor slab design.

A minimum four-inch (4") thick layer of well-graded, free-draining gravel with less than five percent (5%) passing the No. 200 sieve is recommended to be placed under the floor slab to serve as a capillary break. LandMark recommends that a representative of a qualified geotechnical engineer test and approve the floor slab base course materials prior to and during placement.

Also, the surface of the site must be graded to provide for positive drainage away from the basement/foundation walls. Ideally, a 5% or greater slope should extend at least 10' away from the foundation walls.

The conclusions and recommendations in this report are made only with respect to the soils observed during our site visit and are not indicative of a thorough foundation analysis or geotechnical study. A thorough foundation analysis or geotechnical study would include additional soil test pits/borings and soil parameter testing.

LANDMARK ENGINEERING SCIENCES, INC.



Mark D. Augustine, PE, RLS, CHMM  
President



encl: Form A – Seasonal High Groundwater Report  
Soil Evaluation Report  
General Notes

C:\Users\Asus\Documents\Landmark\2097 - Badgerland Soil (Minooka Park)\2097-Geotech Observ Report.Docx

# Form A - Seasonal High Groundwater Determination Report

Project/Plat Name: Minooka Park, City of Waukesha, Wisconsin

Date: December 17, 2012

Project Location (TRSQ): NE 1/4 SW 1/4 S 13, T6N, R19E

The following table summarizes my interpretation of the soil profile evaluations conducted on the above noted site. The purpose of this report is to demonstrate compliance with a Waukesha County ordinance requirement to maintain basement floor elevations at least 1 foot above the seasonal high water table. I understand that the definition for seasonal high water table means the upper limit of the zone of soil saturation caused by underlying groundwater at its highest level. I certify that the information presented in this report represents my best professional judgment in estimating seasonal high water table based on soil and site evaluations in accordance with the procedures contained in Chapter SPS 385 Wisconsin Administrative Code.



Interpreters Signature: 

Interpreters Printed Name/Credentials/Lic. #: Mark D. Augustine, PE #31414

Interpreters Company Name/Address: LandMark Engineering Sciences, Inc., 3021 Minot Lane – Suite 200, Waukesha, Wisconsin 53188-4453

Site Benchmark/Elevation (Co. Stds.): Elevation carried in from County benchmark. Estimated ground elevation at test pit location = 920.16' MSL

References: 1) Comm 83 "Soil Evaluation Report", and 2) Waukesha County GIS Soil Survey Map

Picnic Area #	Soil Observ. (#)	Surface Elev.	Bottom Elev. of Soil Profile	Soil Map Unit Symbol (NRCS)	Elevation of Seasonal High Water Table	Proposed Basement Floor Elevation	Notes: List information used to determine seasonal high water table, including any soil color pattern exemptions under <del>COMM 85.30(3)</del> SPS 385.30(3) for a basement floor proposed less than 1-foot above redoximorphic features shown in the referenced soil evaluation reports.
1-2	B-5	920.16	913.66	LmA	916.66	>917.66	Redox features were observed at 42" below grade in the soil test pit. Groundwater and/or saturated soil conditions were not observed in the soil profile. Thus, the seasonal high groundwater table is estimated to be at 42" bgs or elevation 916.66'. This means a floor elevation of greater than 917.66' will meet the Waukesha County ordinance requirement to maintain a minimum 1.0' separation between the lowest floor elevation and the seasonal high groundwater level.

Attach complete site plan on paper not less than 8½ x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

**Please print all information.**

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County	Waukesha
Parcel I.D.	
Reviewed By	Date

Property Owner Waukesha County	Property Location Govt. Lot NE1/4, SW1/4, S13, T6N, R19E		
Property Owner's Mailing Address 1320 Pewaukee Rd Room AC230	Lot # Area 1&2	Block # -	Subd. Name or CSM# Minooka Park
City Waukesha	State WI	Zip Code 53188	Phone Number
<input checked="" type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town	Nearest Road Waukesha Racine Ave

New Construction    Use:  Residential / Number of bedrooms \_\_\_\_\_ Code derived design flow rate \_\_\_\_\_ GPD  
 Replacement     Public or commercial - Describe: Picnic Area Restroom

Parent material Glacial Till    Flood plain elevation, if applicable \_\_\_\_\_ ft.

General comments and recommendations: Alice Slusher and Jason Wilke on-site.

**5** Boring #  Boring  Pit    Ground surface elev. 920.16 ft.    Depth to limiting factor 42 in.    Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft²	
									*Eff#1	*Eff#2
1	0-18	10yr 3/3	None	sil	2fsbk	mfr	gw	2fm	0.6	0.8
2	18-28	10yr 3/2	None	sil	2fsbk	mfr	gw	2f	0.6	0.8
3	28-42	10yr 4/4	None	cl	2fsbk	mfr	gw	2f	0.4	0.6
4	42-60	10yr 4.4	f2d 10yr 5/8	grcl	1fsbk	mfr	gw	-	0.2	0.3
5	60-78	10yr 5/4	c2d 10yr 5/8	grsil	0m	mfr	-	-	0.0	0.2

**6** Boring #  Boring  Pit    Ground surface elev. 922.02 ft.    Depth to limiting factor 26 in.    Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft²	
									*Eff#1	*Eff#2
1	0-9	10yr 3/2	None	sil	2fsbk	mfr	gw	2f	0.6	0.8
2	9-26	10yr 4/4	None	cl	2fsbk	mfr	gw	1f	0.4	0.6
3	26-36	10yr 4.4	f2d 10yr 5/8	grcl	1fsbk	mfr	gw	-	0.2	0.3
4	36-48	10yr 5.4	c2d 10yr 5.8	grsil	0m	mfr	-	-	0.0	0.2

\* Effluent #1 = BOD<sub>5</sub> > 30 ≤ 220 mg/L and TSS >30 ≤ 150 mg/L

\* Effluent #2 = BOD<sub>5</sub> ≤ 30 mg/L and TSS ≤ 30 mg/L

CST Name (Please Print) Roger J. Hilmer	Signature: <i>Roger Hilmer</i>	CST Number 226473
Address Badgerland Soil Testing 1615 S. Arcadian Dr. New Berlin, WI 53151	Date Evaluation Conducted 11/16/2012	Telephone Number 1-88-TEST-SOIL

**7** Boring #  Boring  Pit Ground surface elev. 923.19 ft. Depth to limiting factor 20 in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2
1	0-9	10yr 3/2	None	sil	2fsbk	mfr	gw	2f	0.6	0.8
2	9-20	10yr 4/4	None	cl	2fsbk	mfr	gw	1f	0.4	0.6
3	20-42	10yr 4/4	f1f 10yr 5/8	cl	2fsbk	mfr	-	-	0.4	0.6

**8** Boring #  Boring  Pit Ground surface elev. 921.05 ft. Depth to limiting factor 20 in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2
1	0-14	10yr 3/2	None	sil	2fsbk	mfr	gw	2fm	0.6	0.8
2	14-20	10yr 4.4	None	cl	2fsbk	mfr	gw	1fm	0.4	0.6
3	20-36	10yr 4/4	f2d 10yr 5/8	grcl	2fsbk	mfr	-	-	0.4	0.6

Boring #  Boring  Pit Ground surface elev. \_\_\_\_\_ ft. Depth to limiting factor \_\_\_\_\_ in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2

\* Effluent #1 = BOD<sub>5</sub> > 30 ≤ 220 mg/L and TSS >30 ≤ 150 mg/L

\* Effluent #2 = BOD<sub>5</sub> ≤ 30 mg/L and TSS ≤ 30 mg/L

The Department of Commerce is an equal opportunity service provider and employer. If you need assistance to access services or need material in an alternate format, please contact the department at 608-266-3151 or TTY 608-264-8777.

SEE THE ATTACHED PARK MAP FOR ADDITIONAL INFORMATION.



badgerland  
soil testing, Inc.

1615 S. Arcadian Drive

New Berlin, WI 53151

262.754.1670

262.754.1671 fax

1.88.TEST.SOIL

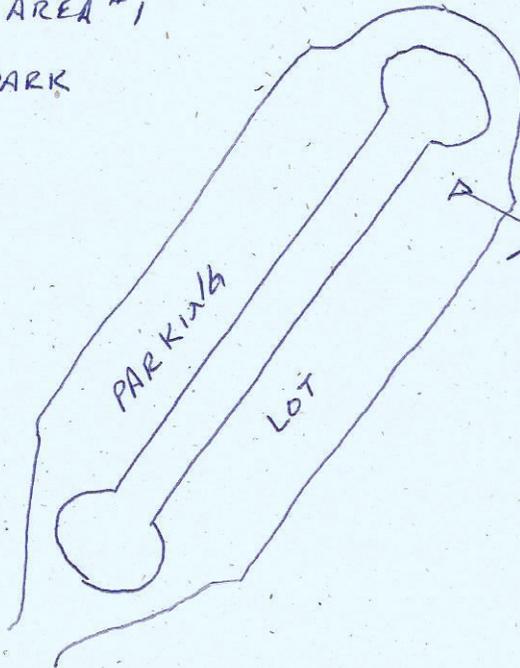
www.testsoil.com



SCALE 1"=100'

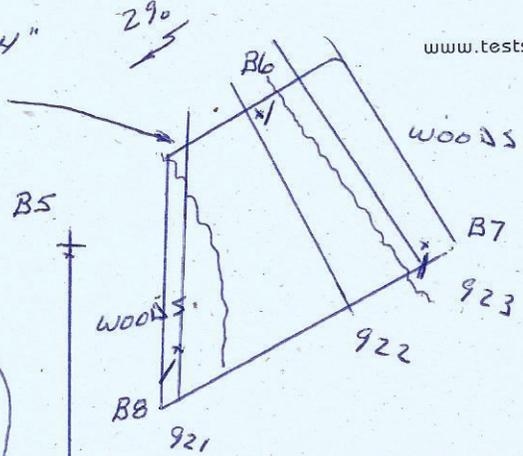
Roger Hilmer

PICNIC AREA #1  
MINOOKA PARK



SUITABLE A+4"  
MOUND AREA

29°



CONTOUR LINES  
ARE APPROXIMATE

920  
B.M. 919.57 NAIL IN  
PARKING LOT

PICNIC AREA #2  
MINOOKA PARK

*Yours Naturally!*

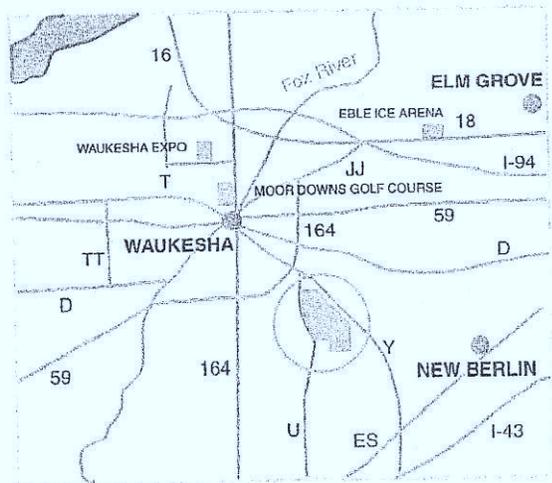
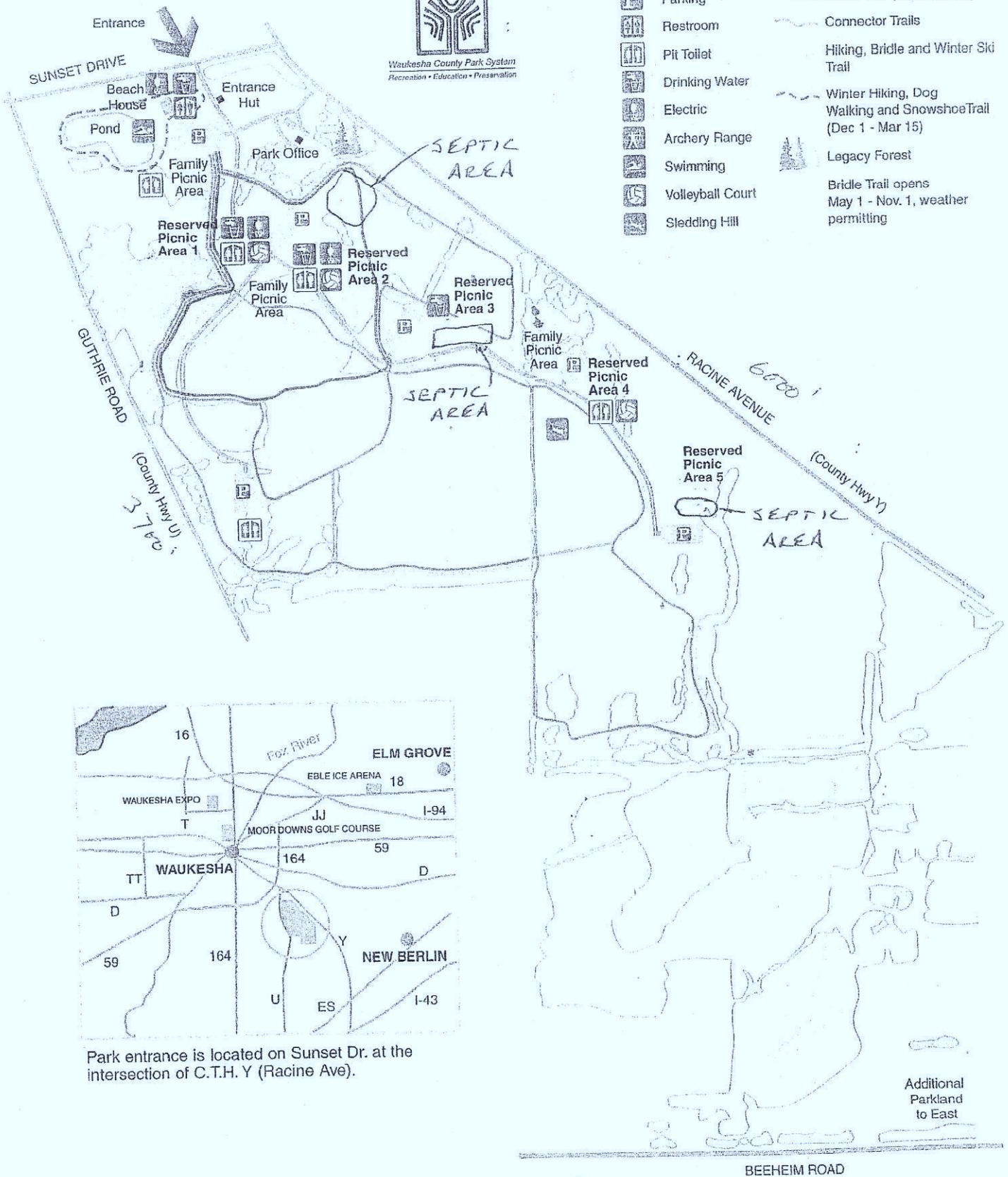


Waukesha County Park System  
Recreation • Education • Preservation

Map Legend

Hiking and Winter Ski Trails

- Woods
- Dog Exercise Area
- Parking
- Restroom
- Pit Toilet
- Drinking Water
- Electric
- Archery Range
- Swimming
- Volleyball Court
- Sledding Hill
- 1 Mile Trail (easiest)
- 2 Mile Trail (intermediate)
- 3 Mile Trail (most difficult)
- Connector Trails
- Hiking, Bridle and Winter Ski Trail
- Winter Hiking, Dog Walking and Snowshoe Trail (Dec 1 - Mar 15)
- Legacy Forest
- Bridle Trail opens May 1 - Nov. 1, weather permitting



Park entrance is located on Sunset Dr. at the intersection of C.T.H. Y (Racine Ave).

# MINOOKA PARK



## GENERAL NOTES

### SAMPLE IDENTIFICATION

Visual soil classifications are made in general accordance with the Unified Soil Classification System on the basis of textural and particle size categorization, and various soil behavior characteristics. Visual classifications should be substantiated by appropriate laboratory testing when a more exact soil identification is required to satisfy specific project applications criteria.

#### PARTICLE SIZE ±

Boulders: 8 inches	Coarse Sand: 2mm to 4 mm	Silt: 0.005mm to 0.074mm
Cobbles: 3 to 8 inches	Medium sand: 0.42mm to 2mm	Clay: <0.005mm
Gravel: 5 mm to 3 inches	Fine Sand: 0.074 to 0.42mm	

### DRILLING & SAMPLING SYMBOLS

SS: Split-spoon, 2" O.D. by 1 3/8" I.D.	RB: Roller Bit
ST: Shelby Tube, 2" O.D. or 3" O.D., as noted in text	WS: Wash Sample
AU: Auger Sample	BS: Bag Sample
DB: Diamond Bit	HA: Hand Auger
CB: Carbide Bit	

### SOIL PROPERTY SYMBOLS

N:	Standard penetration count, indicating number of blows of a 140lb. hammer with a 30 inch drop, required to advance a split-spoon sampler one foot.		
Qu:	Unconfined compressive strength, tons per square foot (tsf)		
Qp:	Calibrated hand penetrometer resistance, tsf		
MC:	Moisture Content, %		
LL:	PL:	PI:	Plasticity Index
Dd:	Dry Density, pounds per cubic foot (pcf)		
PID:	Photoionization Detector (Hnu meter) volatile vapor level, ppm		

### SOIL RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

NON-COHESIVE SOILS		COHESIVE SOILS		
Classifier	N-Value Range	Classifier	Qu Range (tsf)	N-Value Range
very loose	0 – 3	very soft	0 – 0.25	0 – 2
loose	3 – 7	soft	0.25 – 0.5	2 – 5
medium dense	7 – 15	medium stiff	0.5 – 1.0	5 – 10
dense	15 – 38	stiff	1.0 – 2.0	10 – 14
very dense	38 +	very stiff	2.0 – 4.0	14 – 32
		hard	4.0 +	32 +

### GROUNDWATER

- ▼ Approximate Groundwater level at time noted on soil boring log, measured in open bore hole unless otherwise noted. Groundwater levels often vary with time, and are affected by soil permeability characteristics, weather conditions, & lateral drainage conditions.

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# LANDMARK

ENGINEERING SCIENCES, INC.

3021 MINOT LANE, SUITE 200, WAUKESHA, WISCONSIN 53188-4453

TELEPHONE: 414-719-2769

EMAIL: [LandMark-Engineering@live.com](mailto:LandMark-Engineering@live.com)

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## Soil Observation Report

<b>Project:</b>	Picnic Area 5	<b>Project No.:</b>	2097.00
<b>Location:</b>	Minooka Park, Town of Waukesha, WI	<b>Date(s):</b>	16 NOV 2012
<b>Client:</b>	Waukesha County	<b>Time(s):</b>	01130–1230
<b>Contractor:</b>	Badgerland Soil Testing	<b>Weather:</b>	Mostly sunny, mid 30s °F
<b>Present:</b>	Mark Augustine -- LandMark Engineering Roger Hilmer -- Badgerland Soil Testing Alice Slusher & Jason Wilke -- Waukesha County	<b>Equipment:</b>	Tracked mini-excavator Soil penetrometer & probe

### OBSERVATIONS:

LANDMARK ENGINEERING SCIENCES, INC. (LandMark) arrived at the site on November 16, 2012 at the request of Waukesha County (client) to conduct a geotechnical evaluation of the proposed foundation subgrade and groundwater conditions for a public restroom building. One (1) soil test pit (B-1) was advanced to evaluate the foundation subgrade and existing groundwater conditions for the proposed slab-on-grade building. LandMark assumes the structure will utilize exterior load bearing walls supported by continuous spread footings. Based on this type of construction, the structural loads are anticipated to be light.

A review of the *1998 Soil Survey of Milwaukee and Waukesha Counties, Wisconsin*, prepared by the U.S. Department of Agriculture, Natural Resources Conservation Service, indicates the soils within the site building area are primarily Theresa silt loam (ThB) series. Based on the soil survey, Theresa soils generally are well drained soil formed in silty deposits (loess) over calcareous, dense loamy till. Soil profile is characterized by silt loams underlain by silty clay loams, transitioning to clay loam and loam within the upper sixty inches (60"). The soil survey also indicates the seasonal high groundwater table depth is greater than 60" below the ground surface (bgs) for this soil series; i.e., the soils are not considered to be hydric.

Soil observations were conducted via test pit using a tracked, mini-excavator. One (1) soil test pit (elev. 953.35' MSL) was advanced east of the existing parking lot within the proposed restroom building footprint. LandMark collected and catalogued soil samples from the test pit at various depths, according to the soil profiles observed. Load resistance indicators were tested via various soil penetrometer techniques. Observed soils were then classified via Visual-Manual methods (ASTM 2387) according to USDA SCS guidelines. The test pit was advanced to a depth of approximately 5.0' bgs.

The soils encountered at the test pit location generally consisted of 6" of moist, silt loam topsoil underlain by 14" of moist, clay loams. This was underlain by about 4" of moist to wet, gravelly clay loams, which transitioned to wet, mottled, gravelly silt loams for the remaining 36" until test pit termination depth was reached (see attached *Soil Evaluation Report* for detailed soil profile information).

Groundwater was not observed during excavation activities to the termination depth of 5.0' bgs. However, LandMark estimates the apparent seasonal high groundwater level at 2.0' bgs (elev. 951.35' MSL) due to the observed redox indicators and moisture content of recovered soils at that depth.

CONCLUSIONS / RECOMMENDATIONS CONVEYED DURING SITE VISIT(S):

**LandMark concludes that:**

- 1) **The gravelly silt loam soils present at 2.0' bgs (elev. 951.35' MSL) are considered suitable to support a footing design load of  $\leq 3,000$  psf. All foundations for the proposed restroom building must extend to or below this elevation to be supported by suitable load bearing soils.**
- 2) **Large cobbles were observed at 24" bgs (elev. 951.35' MSL), which caused bucket refusal on the mini-excavator at the termination depth (elev. 948.35' MSL). To minimize point loads caused by cobbles impacting the bottom of footings, LandMark recommends that the footing trench be over-excavated a minimum depth of 6", then brought back up to grade with compacted-in-place, clean no. 1 stone.**
- 3) **Groundwater was not observed in the soil test pit. However, indicators of soil redoxification (redox) were observed in the soil profile at 24" bgs (elev. 951.35' MSL). Based on field observations and the observed redox indicators, a conservative estimate for the apparent seasonal high groundwater level based on COMM 85 standards is at elev. 951.35' MSL. Note that groundwater levels may fluctuate both seasonally and annually and they may differ from the levels observed during our field exploration.**
- 4) **Based on the apparent seasonal high groundwater level and Waukesha County Storm Water Ordinance requiring the lowest floor elevations be set at least 1' above the apparent seasonal high groundwater level, the restroom floor elevation must be  $\geq 952.35'$  MSL.**

The proposed building may be supported by a conventional spread footing system, bearing directly on the structural compacted fill used to raise undercut areas. In general, the soil conditions encountered at and below 24" bgs at the soil test pit location should allow for a net allowable soil bearing pressure of 3,000 psf.

It must be recognized that subsurface conditions may change across the proposed building footprint, even though initial indications are that the site soil conditions appear relatively consistent within the proposed building footprint area. If weather conditions are wet, some nominal over-excavation below planned footing grade may be necessary to ensure that the footings extend to suitable load bearing soils. LandMark recommends that the actual foundation soil load bearing capacity be verified during construction by a qualified geotechnical engineer or technician so foundations are founded within suitable load bearing soils or the appropriate subgrade improvements are provided.

Backfilling of over-excavated areas should be done up to the footing base elevation in maximum eight inch (8") thick loose lifts. Backfill materials should be suitable granular fill material compacted in-place to at least 95% of the Modified Proctor maximum dry density (ASTM D-1557). Alternatively, footings may also be designed to bear upon a lean mix concrete fill founded on the undisturbed, suitable soils. If lean mix concrete fill is used, the footing over-excavation will need to extend a minimum of six-inches (6") beyond each face of the footing.

After excavation, footing trenches should be observed, the support soils tested and approved, and the foundations constructed as quickly as possible to avoid exposing the support soil to wetting and drying affects and/or freezing conditions. Excavated footing lines may require water removal prior to forms being placed. Surface water runoff must be directed away from the excavation and not allowed to pond. If possible, the foundation concrete should be placed during the same day the footings are excavated. If the footing excavation be left open for more than a

day, the footings should be protected to minimize changes in soil moisture content and to prevent frost from setting into the soil during winter months.

To minimize frost penetration below foundations, it is recommended that all foundations bear at a minimum depth of 4' below the lowest adjacent finished exterior grade. In order to minimize the effects of slight differential soil settlement that may occur, lateral steel reinforcement is recommended within the footing forms.

If structural filling activities are required for site grading, the subgrade should be properly prepared prior to filling activities and all fill should be placed in a controlled manner. This should be monitored and tested by a representative of the geotechnical engineer. Recommendations for subgrade preparation and compaction follow.

LandMark assumes that the topography observed will require some fill to obtain probable final grade elevations around the restroom structures. Before placing fill or constructing slabs, any unsuitable load-bearing surface materials must be removed (stripped) from a minimum of 5' beyond all proposed building and pavement areas. Unsuitable load-bearing surface materials include such items as vegetation, topsoil, root-balls of trees and bushes, existing buildings and pavements, deleterious debris, organic soils, etc. We recommend that the removal/stripping depths be observed and approved by a representative of a qualified geotechnical engineer during grading work. The actual topsoil removal/stripping depths need to be based on organic content and soil stability.

LandMark also recommends that a representative of a qualified geotechnical engineer test the building pad and structural fill subgrade areas to detect areas of unsuitable load bearing soil. These soil areas can be verified by the geotechnical engineer field-testing and approving areas of concern. Any unstable soils detected within the building pad, pavement, or structural fill subgrade areas can be scarified and compacted in-place, removed and replaced with compacted structural fill material, or mechanically stabilized. The unstable soil removal depths and the stabilization methods used will need to be determined by the qualified geotechnical engineer on a case-by-case basis according to the construction site conditions.

In general, the performance of the foundation systems on this site will depend on the various factors discussed above. The soil bearing pressures suggested should be used for preliminary planning only in the evaluation of the general site feasibility.

Floor slabs should be at least four inches (4") thick and should be properly reinforced to resist differential movement and shrinkage cracking. Also, the floor slabs should not be rigidly connected to columns, walls, or foundations. A subgrade modulus (k) of 150 pounds per cubic inch (pci) may be used for the floor slab design.

A minimum four-inch (4") thick layer of well-graded, free-draining gravel with less than five percent (5%) passing the No. 200 sieve is recommended to be placed under the floor slab to serve as a capillary break. LandMark recommends that a representative of a qualified geotechnical engineer test and approve the floor slab base course materials prior to and during placement.

Also, the surface of the site must be graded to provide for positive drainage away from the basement/foundation walls. Ideally, a 5% or greater slope should extend at least 10' away from the foundation walls. This slope may need to be increased to address surface water flow if the structure is built into a slope or hillside.

The conclusions and recommendations in this report are made only with respect to the soils observed during our site visit and are not indicative of a thorough foundation analysis or geotechnical study. A thorough foundation analysis or geotechnical study would include additional soil test pits/borings and soil parameter testing.

**LANDMARK ENGINEERING SCIENCES, INC.**



Mark D. Augustine, PE, RLS, CHMM  
President



encl: Form A – Seasonal High Groundwater Report  
Soil Evaluation Report  
General Notes

C:\Users\Asus\Documents\Landmark\2097 - Badgerland Soil (Minooka Park)\2097-Geotech Observ Report (Picnic Area 5).Docx

# Form A - Seasonal High Groundwater Determination Report

Project/Plat Name: Minooka Park, City of Waukesha, Wisconsin

Date: December 17, 2012

Project Location (TRSQ): NW 1/4 SW 1/4 S18, T6N, R20E

The following table summarizes my interpretation of the soil profile evaluations conducted on the above noted site. The purpose of this report is to demonstrate compliance with a Waukesha County ordinance requirement to maintain basement floor elevations at least 1 foot above the seasonal high water table. I understand that the definition for seasonal high water table means the upper limit of the zone of soil saturation caused by underlying groundwater at its highest level. I certify that the information presented in this report represents my best professional judgment in estimating seasonal high water table based on soil and site evaluations in accordance with the procedures contained in Chapter SPS 385 Wisconsin Administrative Code.



Interpreters Signature: \_\_\_\_\_

Interpreters Printed Name/Credentials/Lic. #: Mark D. Augustine, PE #31414

Interpreters Company Name/Address: LandMark Engineering Sciences, Inc., 3021 Minot Lane – Suite 200, Waukesha, Wisconsin 53188-4453

Site Benchmark/Elevation (Co. Stds.): Elevation carried in from County benchmark. Estimated ground elevation at test pit location = 953.35' MSL

References: 1) Comm 83 "Soil Evaluation Report", and 2) Waukesha County GIS Soil Survey Map



Picnic Area #	Soil Observ. (#)	Surface Elev.	Bottom Elev. of Soil Profile	Soil Map Unit Symbol (NRCS)	Elevation of Seasonal High Water Table	Proposed Basement Floor Elevation	Notes: List information used to determine seasonal high water table, including any soil color pattern exemptions under <del>COMM 85.30(3)</del> SPS 385.30(3) for a basement floor proposed less than 1-foot above redoximorphic features shown in the referenced soil evaluation reports.
5	B-1	953.35	948.35	ThB	951.35	>952.35	Redox features were observed at 24" below grade in the soil test pit. Groundwater and/or saturated soil conditions were not observed in the soil profile. Thus, the seasonal high groundwater table is estimated to be at 24" bgs or elevation 951.35'. This means a floor elevation of greater than 952.35' will meet the Waukesha County ordinance requirement to maintain a minimum 1.0' separation between the lowest floor elevation and the seasonal high groundwater level.

Attach complete site plan on paper not less than 8½ x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

**Please print all information.**

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County	Waukesha
Parcel I.D.	
Reviewed By	Date

Property Owner Waukesha County	Property Location Govt. Lot NW1/4, SW1/4, S18, T6N, R20E		
Property Owner's Mailing Address 1320 Pewaukee Rd Room AC230	Lot # Area 5	Block # -	Subd. Name or CSM# Minooka Park
City Waukesha	State WI	Zip Code 53188	Phone Number
<input checked="" type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town	Nearest Road New Berlin Racine Ave

New Construction    Use:  Residential / Number of bedrooms \_\_\_\_\_ Code derived design flow rate \_\_\_\_\_ GPD  
 Replacement                     Public or commercial - Describe: Picnic Area Restroom

Parent material Glacial Till                    Flood plain elevation, if applicable \_\_\_\_\_ ft.

General comments and recommendations: Alice Slusher and Jason Wilke on-site.

**1** Boring #  Boring  Pit    Ground surface elev. 953.35 ft.    Depth to limiting factor 24 in.    Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2
1	0-6	10yr 3/2	None	sil	2fsbk	mfr	gw	2fm	0.6	0.8
2	6-20	10yr 4/4	None	cl	2fsbk	mfr	gw	1fm	0.4	0.6
3	20-24	10yr 4/4	None	grcl	2fsbk	mfr	gw	1fm	0.4	0.6
4	24-60	10yr 5/4	c2d 10yr 5/8 7/1	grsil	0m	mfr	-	-	0.0	0.2

**2** Boring #  Boring  Pit    Ground surface elev. 948.29 ft.    Depth to limiting factor 16 in.    Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2
1	0-5	10yr 3/2	None	sil	2fsbk	mfr	gw	1fm	0.6	0.8
2	6-12	10yr 4/4	None	cl	2fsbk	mfr	gw	2f	0.4	0.6
3	12-16	10yr 5/4	None	grsil	2fsbk	mfr	gw	1f	0.6	0.8
4	16-42	10yr 5/4	c2d 10yr 5/8 7/1	grsil	1fsbk	mfr	-	-	0.4	0.6

\* Effluent #1 = BOD<sub>5</sub> > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L

\* Effluent #2 = BOD<sub>5</sub> ≤ 30 mg/L and TSS ≤ 30 mg/L

CST Name (Please Print) Roger J. Hilmer	Signature: <i>Roger Hilmer</i>	CST Number 226473
Address Badgerland Soil Testing 1615 S. Arcadian Dr, New Berlin, WI 53151	Date Evaluation Conducted 11/16/2012	Telephone Number 1-88-TEST-SOIL

<b>3</b>	Boring #	<input type="checkbox"/> Boring	Ground surface elev. <u>947.13</u> ft.	Depth to limiting factor <u>15</u> in.	Soil Application Rate					
		<input checked="" type="checkbox"/> Pit			GPD/ft <sup>2</sup>					
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	*Eff#1	*Eff#2
1	0-5	10yr 3/2	None	sil	2fsbk	mfr	gw	2f	0.6	0.8
2	5-15	10yr 4/4	None	cl	2fsbk	mfr	gw	1f	0.4	0.6
3	15-36	10yr 5/4	f2d 10yr 5/8 7/1	sil	1fpl	mfr	-	-	0.4	0.6

<b>4</b>	Boring #	<input type="checkbox"/> Boring	Ground surface elev. <u>946.20</u> ft.	Depth to limiting factor <u>0</u> in.	Soil Application Rate					
		<input checked="" type="checkbox"/> Pit			GPD/ft <sup>2</sup>					
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	*Eff#1	*Eff#2
1	0-38		Mixed Fill	-	-	-	-	-	-	-
2	38-48	10yr 3/2	None	sil	2mpl	mfi	-	-	0.0	0.2

<b>13</b>	Boring #	<input type="checkbox"/> Boring	Ground surface elev. <u>949.49</u> ft.	Depth to limiting factor <u>15</u> in.	Soil Application Rate					
		<input checked="" type="checkbox"/> Pit			GPD/ft <sup>2</sup>					
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	*Eff#1	*Eff#2
1	0-8	10yr 3/2	None	sil	2fsbk	mfr	gw	2f	0.6	0.8
2	8-15	10yr 4/4	None	grcl	2fsbk	mfr	gw	1f	0.4	0.6
3	15-27	10yr 5/4	c2d 10yr 5/8	grsil	0m	mfr	-	-	0.0	0.2

\* Effluent #1 = BOD<sub>5</sub> > 30 ≤ 220 mg/L and TSS >30 ≤ 150 mg/L

\* Effluent #2 = BOD<sub>5</sub> ≤ 30 mg/L and TSS ≤ 30 mg/L

The Department of Commerce is an equal opportunity service provider and employer. If you need assistance to access services or need material in an alternate format, please contact the department at 608-266-3151 or TTY 608-264-8777.

SEE THE ATTACHED PARK MAP FOR ADDITIONAL INFORMATION.



badgerland soil testing, Inc.

1615 S. Arcadian Drive  
New Berlin, WI 53151

262.754.1670

262.754.1671 fax

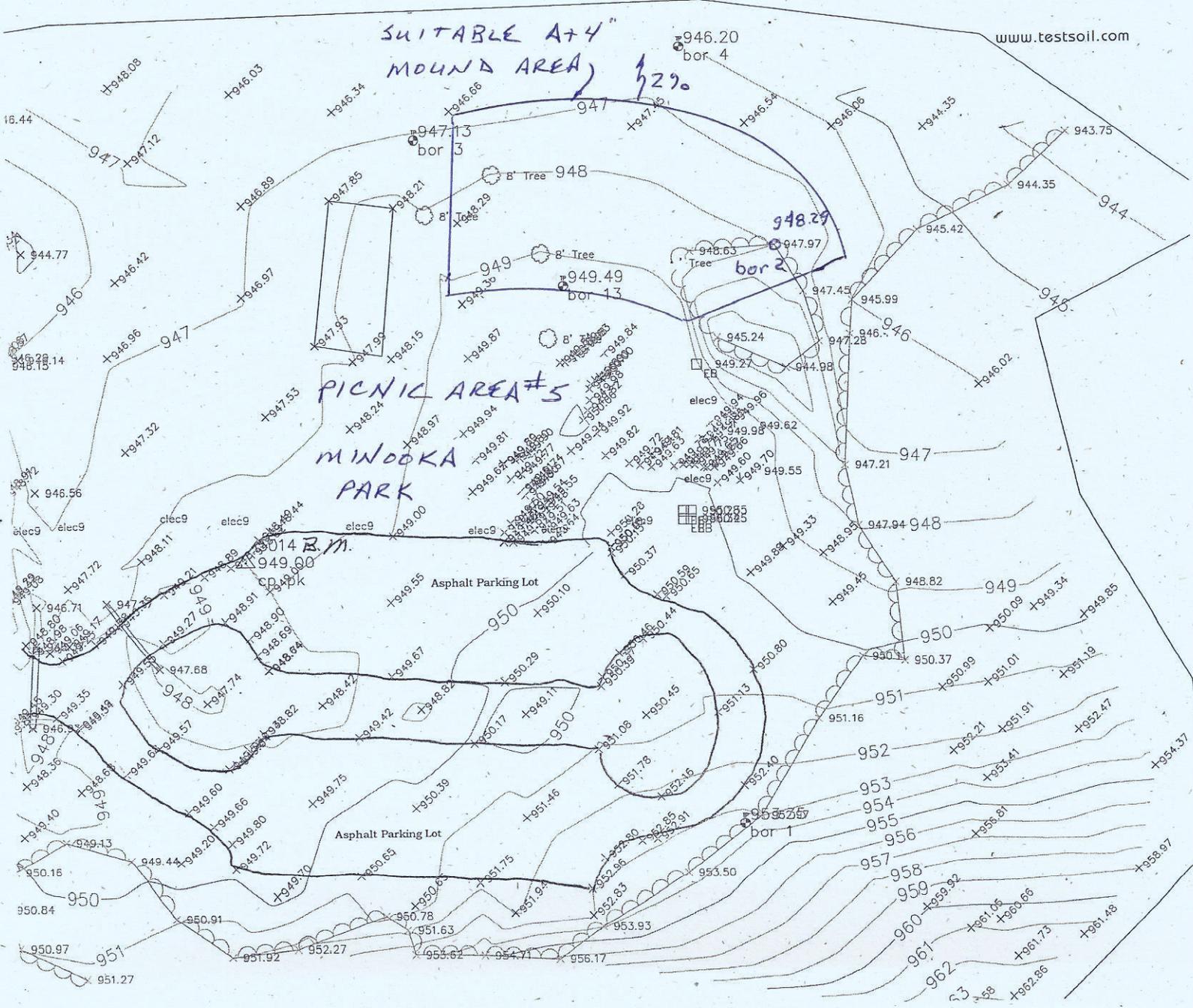
1.88.TEST.SOIL

www.testsoil.com



SCALE 1"=100'

Regu Hilmer



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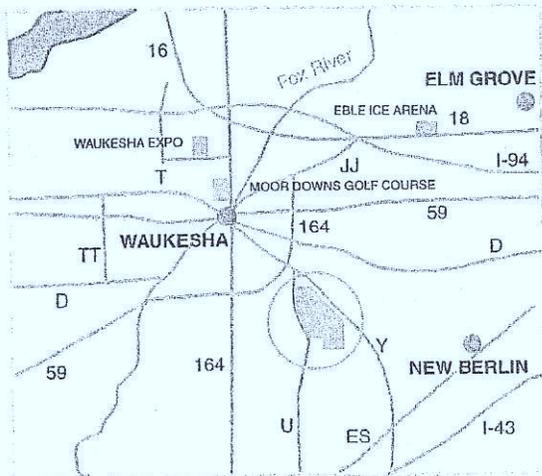
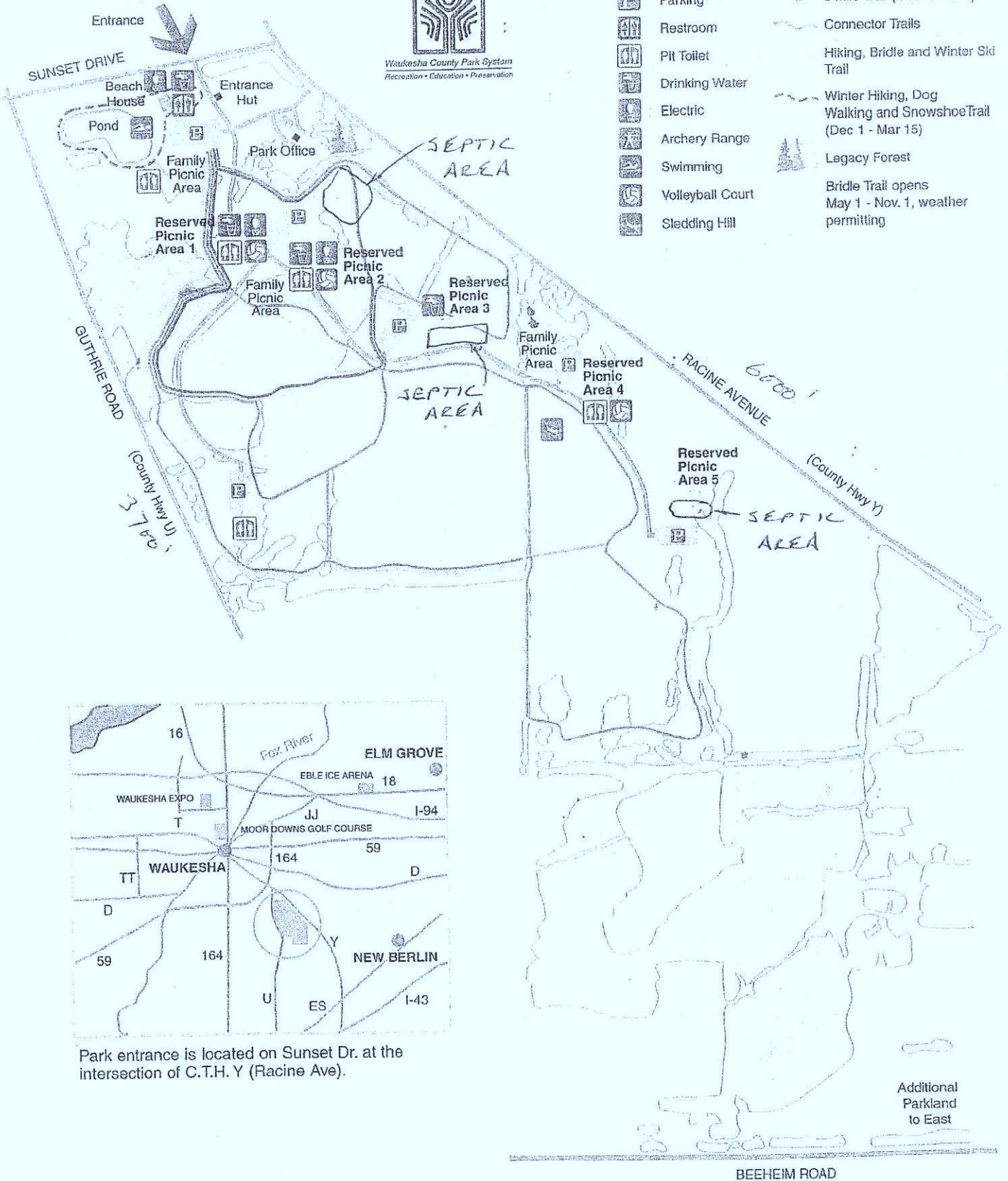


Waukesha County Park System  
Recreation • Education • Preservation

Map Legend

Hiking and Winter Ski Trails

- Woods
- Dog Exercise Area
- Parking
- Restroom
- Pit Toilet
- Drinking Water
- Electric
- Archery Range
- Swimming
- Volleyball Court
- Sledding Hill
- 1 Mile Trail (easiest)
- 2 Mile Trail (intermediate)
- 3 Mile Trail (most difficult)
- Connector Trails
- Hiking, Bridle and Winter Ski Trail
- Winter Hiking, Dog Walking and Snowshoe Trail (Dec 1 - Mar 15)
- Legacy Forest
- Bridle Trail opens May 1 - Nov. 1, weather permitting



Park entrance is located on Sunset Dr. at the intersection of C.T.H. Y (Racine Ave).

# MINOOKA PARK



## GENERAL NOTES

### SAMPLE IDENTIFICATION

Visual soil classifications are made in general accordance with the Unified Soil Classification System on the basis of textural and particle size categorization, and various soil behavior characteristics. Visual classifications should be substantiated by appropriate laboratory testing when a more exact soil identification is required to satisfy specific project applications criteria.

#### PARTICLE SIZE ±

Boulders: 8 inches	Coarse Sand: 2mm to 4 mm	Silt: 0.005mm to 0.074mm
Cobbles: 3 to 8 inches	Medium sand: 0.42mm to 2mm	Clay: <0.005mm
Gravel: 5 mm to 3 inches	Fine Sand: 0.074 to 0.42mm	

### DRILLING & SAMPLING SYMBOLS

SS: Split-spoon, 2" O.D. by 1 3/8" I.D.	RB: Roller Bit
ST: Shelby Tube, 2" O.D. or 3" O.D., as noted in text	WS: Wash Sample
AU: Auger Sample	BS: Bag Sample
DB: Diamond Bit	HA: Hand Auger
CB: Carbide Bit	

### SOIL PROPERTY SYMBOLS

N: Standard penetration count, indicating number of blows of a 140lb. hammer with a 30 inch drop, required to advance a split-spoon sampler one foot.		
Qu: Unconfined compressive strength, tons per square foot (tsf)		
Qp: Calibrated hand penetrometer resistance, tsf		
MC: Moisture Content, %		
LL: Liquid Limit	PL: Plastic Limit	PI: Plasticity Index
Dd: Dry Density, pounds per cubic foot (pcf)		
PID: Photoionization Detector (Hnu meter) volatile vapor level, ppm		

### SOIL RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

NON-COHESIVE SOILS		COHESIVE SOILS		
Classifier	N-Value Range	Classifier	Qu Range (tsf)	N-Value Range
very loose	0 – 3	very soft	0 – 0.25	0 – 2
loose	3 – 7	soft	0.25 – 0.5	2 – 5
medium dense	7 – 15	medium stiff	0.5 – 1.0	5 – 10
dense	15 – 38	stiff	1.0 – 2.0	10 – 14
very dense	38 +	very stiff	2.0 – 4.0	14 – 32
		hard	4.0 +	32 +

### GROUNDWATER

- ▼ Approximate Groundwater level at time noted on soil boring log, measured in open bore hole unless otherwise noted. Groundwater levels often vary with time, and are affected by soil permeability characteristics, weather conditions, & lateral drainage conditions.

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## Soil Observation Report

<b>Project:</b>	Picnic Area 2-3, Mukwonago Park	<b>Project No.:</b>	2164.00
<b>Location:</b>	Town of Mukwonago, WI	<b>Site Date(s):</b>	18 SEP 2013
<b>Client:</b>	Waukesha County	<b>Site Time(s):</b>	0900–1100
<b>Contractor:</b>	Badgerland Soil Testing	<b>Weather:</b>	Mostly sunny, mid 40s °F
<b>Present:</b>	Mark Augustine -- LandMark Engineering Roger Hilmer -- Badgerland Soil Testing Dave Egli & Jason Wilke -- Waukesha County	<b>Equipment:</b>	Tracked mini-excavator Soil penetrometer & probe

### OBSERVATIONS:

LANDMARK ENGINEERING SCIENCES, INC. (LandMark) arrived at the site on September 18, 2013 at the request of Waukesha County (client) to conduct a geotechnical evaluation of the proposed foundation subgrade and groundwater conditions for a public restroom building. One (1) soil test pit (B-1) was advanced to evaluate the foundation subgrade and existing groundwater conditions for the proposed slab-on-grade building. LandMark assumes the structure will utilize exterior load bearing walls supported by continuous spread footings. Based on this type of construction, the structural loads are anticipated to be light.

A review of the *1998 Soil Survey of Milwaukee and Waukesha Counties, Wisconsin*, prepared by the U.S. Department of Agriculture, Natural Resources Conservation Service, indicates the soils within the site building area are primarily eroded Casco loam (CeC2) series. Based on the soil survey, Casco soils generally are well drained soil formed in loamy deposits over calcareous sand and gravel outwash. Soil profile is characterized by loams underlain by clay loams, transitioning to stratified gravel and sand within the upper sixty inches (60"). The soil survey also indicates the seasonal high groundwater table depth is greater than 60" below the ground surface (bgs) for this soil series; i.e., the soils are not considered to be hydric.

Soil observations were conducted via test pit using a tracked, mini-excavator. One (1) soil test pit (elev. 742.8' MSL) was advanced north of the existing parking lot and west of the proposed restroom building footprint. LandMark collected and catalogued soil samples from the test pit at various depths, according to the soil profiles observed. Load resistance indicators were tested via various soil penetrometer techniques. Observed soils were then classified via Visual-Manual methods (ASTM 2387) according to USDA SCS guidelines. The test pit was advanced to a depth of approximately 7.5' bgs.

The soils encountered at the test pit location generally consisted of 7" of moist, silt loam topsoil underlain by 17" of damp to moist gravelly clay loams. This was underlain by damp, gravelly loamy fine sands down to the test pit termination depth (see attached *Soil Evaluation Report* for detailed soil profile information).

Redox indicators and/or groundwater were not observed within the test pit during excavation activities. Thus, LandMark estimates the apparent seasonal high groundwater level to be at or below the test pit termination depth of 7.5' bgs (elev. 735.3' MSL).

CONCLUSIONS / RECOMMENDATIONS CONVEYED DURING SITE VISIT(S):

**LandMark concludes that:**

- 1) The gravelly loamy fine sand soils present at 2.0' bgs (elev. 740.8' MSL) are considered suitable to support a footing design load of  $\leq 3,000$  psf. All foundations for the proposed restroom building must extend to or below this elevation to be supported by suitable load bearing soils.**
- 2) Groundwater was not observed in the soil test pit. Also, indicators of soil redoxification (redox) were not observed in the soil profile. Based on these field observations, a conservative estimate for the apparent seasonal high groundwater level based on SPS 385 standards is at test pit termination depth (elev. 735.3' MSL). Note that groundwater levels may fluctuate both seasonally and annually and they may differ from the levels observed during our field exploration.**
- 3) Based on the apparent seasonal high groundwater level and Waukesha County Storm Water Ordinance requiring the lowest floor elevations be set at least 1' above the apparent seasonal high groundwater level, the restroom floor elevation must be  $\geq 736.3$ ' MSL.**

The proposed building may be supported by a conventional spread footing system, bearing directly on the structural compacted fill used to raise undercut areas. In general, the soil conditions encountered at and below 24" bgs at the soil test pit location should allow for a net allowable soil bearing pressure of 3,000 psf.

It must be recognized that subsurface conditions may change across the proposed building footprint, even though initial indications are that the site soil conditions appear relatively consistent within the proposed building footprint area. LandMark recommends that the actual foundation soil load bearing capacity be verified during construction by a qualified geotechnical engineer or technician so foundations are founded within suitable load bearing soils or the appropriate subgrade improvements are provided.

Backfilling of over-excavated areas should be done up to the footing base elevation in maximum eight inch (8") thick loose lifts. Backfill materials should be suitable granular fill material compacted in-place to at least 95% of the Modified Proctor maximum dry density (ASTM D-1557). Alternatively, footings may also be designed to bear upon a lean mix concrete fill founded on the undisturbed, suitable soils. If lean mix concrete fill is used, the footing over-excavation will need to extend a minimum of six-inches (6") beyond each face of the footing.

After excavation, footing trenches should be observed, the support soils tested and approved, and the foundations constructed as quickly as possible to avoid exposing the support soil to wetting and drying affects and/or freezing conditions. Excavated footing lines may require water removal prior to forms being placed. Surface water runoff must be directed away from the excavation and not allowed to pond. If possible, the foundation concrete should be placed during the same day the footings are excavated. If the footing excavation be left open for more than a day, the footings should be protected to minimize changes in soil moisture content and to prevent frost from setting into the soil during winter months.

To minimize frost penetration below foundations, it is recommended that all foundations bear at a minimum depth of 4' below the lowest adjacent finished exterior grade.

If structural filling activities are required for site grading, the subgrade should be properly prepared prior to filling activities and all fill should be placed in a controlled manner. This should be monitored and tested by a representative of the geotechnical engineer. Recommendations for subgrade preparation and compaction follow.

LandMark assumes that the topography observed will require some fill to obtain probable final grade elevations around the restroom structures. Before placing fill or constructing slabs, any unsuitable load-bearing surface materials must be removed (stripped) from a minimum of 5' beyond all proposed building and pavement areas. Unsuitable load-bearing surface materials include such items as vegetation, topsoil, root-balls of trees and bushes, existing buildings and pavements, deleterious debris, organic soils, etc. We recommend that the removal/stripping depths be observed and approved by a representative of a qualified geotechnical engineer during grading work. The actual topsoil removal/stripping depths need to be based on organic content and soil stability.

LandMark also recommends that a representative of a qualified geotechnical engineer test the building pad and structural fill subgrade areas to detect areas of unsuitable load bearing soil. These soil areas can be verified by the geotechnical engineer field-testing and approving areas of concern. Any unstable soils detected within the building pad, pavement, or structural fill subgrade areas can be scarified and compacted in-place, removed and replaced with compacted structural fill material, or mechanically stabilized. The unstable soil removal depths and the stabilization methods used will need to be determined by the qualified geotechnical engineer on a case-by-case basis according to the construction site conditions. Undercutting portions of the strip footing may increase the potential for differential settlement to occur below the footings. In order to minimize the effects of slight differential soil settlement that may occur, lateral steel reinforcement is recommended within the footing forms.

In general, the performance of the foundation systems on this site will depend on the various factors discussed above. The soil bearing pressures suggested should be used for preliminary planning only in the evaluation of the general site feasibility.

Floor slabs should be at least four inches (4") thick and should be properly reinforced to resist differential movement and shrinkage cracking. Also, the floor slabs should not be rigidly connected to columns, walls, or foundations. A subgrade modulus (k) of 150 pounds per cubic inch (pci) may be used for the floor slab design.

A minimum four-inch (4") thick layer of well-graded, free-draining gravel with less than five percent (5%) passing the No. 200 sieve is recommended to be placed under the floor slab to serve as a capillary break. LandMark recommends that a representative of a qualified geotechnical engineer test and approve the floor slab base course materials prior to and during placement.

Also, the surface of the site must be graded to provide for positive drainage away from the foundation walls. Ideally, a 5% or greater slope should extend at least 10' away from the foundation walls. This slope may need to be increased to address surface water flow if the structure is built into a slope or hillside.

The conclusions and recommendations in this report are made only with respect to the soils observed during our site visit and are not indicative of a thorough foundation analysis or geotechnical study. A thorough foundation analysis or geotechnical study would include additional soil test pits/borings and soil parameter testing.

**LANDMARK ENGINEERING SCIENCES, INC.**



Mark D. Augustine, PE, RLS, CHMM  
President



encl: Form A – Seasonal High Groundwater Report  
Soil Evaluation Report  
General Notes

C:\Users\Asus\Documents\Landmark\2164 - Badgerland Soil (Mukwonago-Geo)\2164-Geotech Observ Report (Picnic Area 2-3).Docx

# Form A - Seasonal High Groundwater Determination Report

Date: October 3, 2013

Project/Plat Name: Mukwonago Park, Town of Mukwonago, Wisconsin

Project Location (TRSQ): NE 1/4 SE 1/4 S29, T5N, R18E

The following table summarizes my interpretation of the soil profile evaluations conducted on the above noted site. The purpose of this report is to demonstrate compliance with a Waukesha County ordinance requirement to maintain basement floor elevations at least 1 foot above the seasonal high water table. I understand that the definition for seasonal high water table means the upper limit of the zone of soil saturation caused by underlying groundwater at its highest level. I certify that the information presented in this report represents my best professional judgment in estimating seasonal high water table based on soil and site evaluations in accordance with the procedures contained in Chapter SPS 385 Wisconsin Administrative Code.



Interpreters Signature: \_\_\_\_\_

Interpreters Printed Name/Credentials/Lic. #: Mark D. Augustine, PE #31414

Interpreters Company Name/Address: LandMark Engineering Sciences, Inc., 3021 Minot Lane – Suite 200, Waukesha, Wisconsin 53188-4453

Site Benchmark/Elevation (Co. Stds.): Elevation carried in from County benchmark. Estimated ground elevation at test pit location = 742.8' MSL

References: 1) SPS 383 "Soil Evaluation Report" dated 18SEP2013 and 2) Waukesha County GIS Soil Survey Map



Picnic Area #	Soil Observ. (#)	Surface Elev.	Bottom Elev. of Soil Profile	Soil Map Unit Symbol (NRCS)	Elevation of Seasonal High Water Table	Proposed Basement Floor Elevation	Notes: List information used to determine seasonal high water table, including any soil color pattern exemptions under SPS 385.30(3) for a basement floor proposed less than 1-foot above redoximorphic features shown in the referenced soil evaluation reports.
2-3	B-1	742.8	735.3	CeC2	735.3	≥736.3	Redox features were not observed in the soil test pit. Groundwater and/or saturated soil conditions also were not observed in the soil profile. Thus, the seasonal high groundwater table is estimated to be at test pit termination depth (Elev. 735.3'). This means a floor elevation at or greater than 736.3' will meet the Waukesha County ordinance requirement to maintain a minimum 1.0' separation between the lowest floor elevation and the seasonal high groundwater level.

Attach complete site plan on paper not less than 8½ x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

**Please print all information.**

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County	Waukesha
Parcel I.D.	
Reviewed By	Date

Property Owner Waukesha County	Property Location Govt. Lot NE1/4, SE1/4, S29, T5N, R18E		
Property Owner's Mailing Address 1320 Pewaukee Rd Room AC230	Lot # -	Block # -	Subd. Name or CSM# Metes And Bounds
City Waukesha	State WI	Zip Code 53188	Phone Number
<input type="checkbox"/> City <input type="checkbox"/> Village <input checked="" type="checkbox"/> Town		Nearest Road Mukwonago CTH LO	

New Construction Use:  Residential / Number of bedrooms \_\_\_\_\_ Code derived design flow rate \_\_\_\_\_ GPD  
 Replacement  Public or commercial - Describe: Picnic Area Restroom

Parent material Glacial Outwash Flood plain elevation, if applicable \_\_\_\_\_ ft.

General comments and recommendations: Dave Egli & Jason Wilke Waukesha County on-site. Recommend distribution cells 6.5 - 7.0 feet deep.

**1** Boring #  Boring  Pit Ground surface elev. 742.8 ft. Depth to limiting factor 90 in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft²	
									*Eff#1	*Eff#2
1	0-7	10yr 3/2	None	sil	2fsbk	mfr	gw	2fm	0.6	0.8
2	7-24	10yr 4/4	None	grcl	2fsbk	mfr	gw	2fm	0.4	0.6
3	24-90	10yr 5/4	None	grfs	0fsg	mvfr	-	2fm	0.5	1.0

**2** Boring #  Boring  Pit Ground surface elev. 735.55 ft. Depth to limiting factor 120 in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft²	
									*Eff#1	*Eff#2
1	0-8	10yr 3/2	None	sil	2fsbk	mfr	gw	1fm	0.6	0.8
2	8-30	10yr 4/4	None	cl	2fsbk	mfr	gw	2f	0.4	0.6
3	30-42	10yr 4/4	None	grcl	2fsbk	mfr	gw	2f	0.4	0.6
4	42-120	10yr 5/4	None	grfs	0fsg	mvfr	-	-	0.5	1.0

\* Effluent #1 = BOD<sub>5</sub> > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L      \* Effluent #2 = BOD<sub>5</sub> ≤ 30 mg/L and TSS ≤ 30 mg/L

CST Name (Please Print) Roger J. Hilmer	Signature: 	CST Number 226473
Address Badgerland Soil Testing 1615 S. Arcadian Dr New Berlin, WI 53151	Date Evaluation Conducted 9/18/2013	Telephone Number 1-88-TEST-SOIL

**3** Boring #  Boring  Pit  
 Ground surface elev. 734.0 ft. Depth to limiting factor 120 in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2
1	0-12	10yr 3/2	None	sil	2fsbk	mfr	gw	2fm	0.6	0.8
2	12-48	10yr 4/4	None	cl	2fsbk	mfr	gw	1fm	0.4	0.6
3	48-60	10yr 5/4	None	sil	1fsbk	mfr	gw	1f	0.4	0.6
4	60-120	10yr 5/4	None	grs	0sg	ml	-	-	0.7	1.6

**4** Boring #  Boring  Pit  
 Ground surface elev. 737.7 ft. Depth to limiting factor 120 in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2
1	0-8	10yr 3/2	None	sil	2fsbk	mfr	gw	1fm	0.6	0.8
2	8-30	10yr 4/4	None	cl	2fsbk	mfr	gw	1fm	0.4	0.6
3	30-48	10yr 4/4	None	grcl	2fsbk	mfr	gw	1fm	0.4	0.6
4	48-120	10yr 5/4	None	grlfs	0fsg	mvfr	-	-	0.5	1.0

Boring #  Boring  Pit  
 Ground surface elev. \_\_\_\_\_ ft. Depth to limiting factor \_\_\_\_\_ in. Soil Application Rate

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft <sup>2</sup>	
									*Eff#1	*Eff#2

\* Effluent #1 = BOD<sub>5</sub> > 30 ≤ 220 mg/L and TSS >30 ≤ 150 mg/L

\* Effluent #2 = BOD<sub>5</sub> ≤ 30 mg/L and TSS ≤ 30 mg/L

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badgerland  
soil testing, Inc.

1615 S. Arcadian Drive  
New Berlin, WI 53151

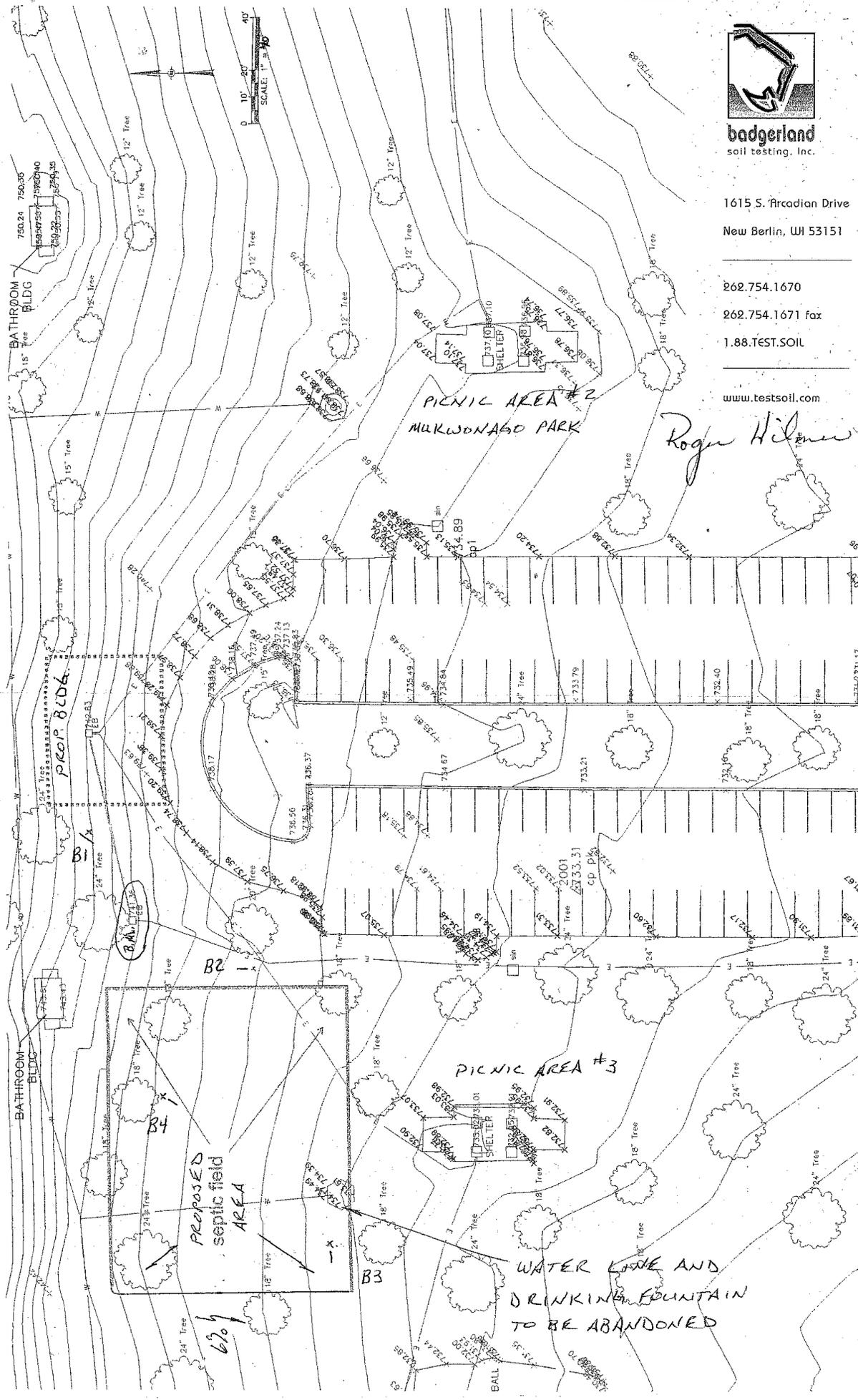
262.754.1670

262.754.1671 fax

1.88.TEST.SOIL

www.testsoil.com

*Roger Hilmer*



## GENERAL NOTES

### SAMPLE IDENTIFICATION

Visual soil classifications are made in general accordance with the Unified Soil Classification System on the basis of textural and particle size categorization, and various soil behavior characteristics. Visual classifications should be substantiated by appropriate laboratory testing when a more exact soil identification is required to satisfy specific project applications criteria.

#### PARTICLE SIZE ±

Boulders: 8 inches	Coarse Sand: 2mm to 4 mm	Silt: 0.005mm to 0.074mm
Cobbles: 3 to 8 inches	Medium sand: 0.42mm to 2mm	Clay: <0.005mm
Gravel: 5 mm to 3 inches	Fine Sand: 0.074 to 0.42mm	

### DRILLING & SAMPLING SYMBOLS

SS: Split-spoon, 2" O.D. by 1 3/8" I.D.	RB: Roller Bit
ST: Shelby Tube, 2" O.D. or 3" O.D., as noted in text	WS: Wash Sample
AU: Auger Sample	BS: Bag Sample
DB: Diamond Bit	HA: Hand Auger
CB: Carbide Bit	

### SOIL PROPERTY SYMBOLS

N:	Standard penetration count, indicating number of blows of a 140lb. hammer with a 30 inch drop, required to advance a split-spoon sampler one foot.		
Qu:	Unconfined compressive strength, tons per square foot (tsf)		
Qp:	Calibrated hand penetrometer resistance, tsf		
MC:	Moisture Content, %		
LL:	Liquid Limit	PL:	Plastic Limit
		PI:	Plasticity Index
Dd:	Dry Density, pounds per cubic foot (pcf)		
PID:	Photoionization Detector (Hnu meter) volatile vapor level, ppm		

### SOIL RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

NON-COHESIVE SOILS		COHESIVE SOILS		
Classifier	N-Value Range	Classifier	Qu Range (tsf)	N-Value Range
very loose	0 – 3	very soft	0 – 0.25	0 – 2
loose	3 – 7	soft	0.25 – 0.5	2 – 5
medium dense	7 – 15	medium stiff	0.5 – 1.0	5 – 10
dense	15 – 38	stiff	1.0 – 2.0	10 – 14
very dense	38 +	very stiff	2.0 – 4.0	14 – 32
		hard	4.0 +	32 +

### GROUNDWATER

- ▼ Approximate Groundwater level at time noted on soil boring log, measured in open bore hole unless otherwise noted. Groundwater levels often vary with time, and are affected by soil permeability characteristics, weather conditions, & lateral drainage conditions.