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| BID 01 |
| |
| 2012 |
| PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS |
| FOR |
| TENNEY PARK TENNIS COURT LIGHTING |
| CONTRACT NO. 6901 |
| IN |
| MADISON, DANE COUNTY, WISCONSIN |
| AWARDED BY THE COMMON COUNCIL MADISON, WISCONSIN ON |
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| DI FACE DETUDN DI ANC AND SPECIFICATIONS TO |

PLEASE RETURN PLANS AND SPECIFICATIONS TO:

CITY ENGINEERING DIVISION 1600 EMIL STREET MADISON, WISCONSIN 53713

www.cityofmadison.com/business/pw

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

INDEX

| SECTION A: ADVERTISEMENT FOR BIDS | A-1 |
|---|-----|
| | |
| SECTION B: INSTRUCTIONS TO BIDDERS | B-1 |
| SECTION C: SBE (NOT APPLICABLE) | C-1 |
| SECTION D: SPECIAL PROVISIONS | D-1 |
| SECTION E: PROPOSAL | |
| SECTION F: BID BOND | F-1 |
| SECTION G: AGREEMENT | G-1 |
| SECTION H: PAYMENT AND PERFORMANCE BOND | H-1 |
| SECTION I: PREVAILING WAGE RATE | I-1 |

This Proposal, and Agreement have been prepared by:

CITY PARKS DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN

Kevin Briski – Superintendant of Parks

SECTION A: ADVERTISEMENT FOR BIDS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

| CONTRACT NO. | PROJECT NAME: | |
|--------------|-----------------------------------|--|
| 6901 | tenney park tennis court lighting | |

Plans and Specifications are available at 1600 Emil Street, Madison, WI 53713; 608-267-1197 or on our website at www.citvofmadison.com/business/pw/contracts/openforBid.cfm.

PREQUALIFICATIONS

Bidders who have not been prequalified by the City Engineer and Affirmative Action Director for the period of February 1, 2012 to January 31, 2013 must submit their application on or before 1:00 p.m., JULY 13, 2012, Room 115, City-County Building, Madison, WI 53703. Postmark is not applicable. Contractors be prequalified by the City Engineer including an affirmative action plan approved by the Affirmative Action Director prior to the bid opening or the bid will be rejected. Forms are available at the same location or on our website at www.cityofmadison.com/business/pw/forms.cfm.

OTHER REQUIREMENTS

Sealed bids must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer.

Prevailing Wage Rates may be required and are attached in Section I of the contract. See Special Provisions to determine applicability.

Deadline for the Submittal of Bid is JULY 20, 2012 by 1:00 PM, at 1600 Emil Street, Madison, WI 53713.

Bid Opening will be on JULY 20, 2012 at 1:30 PM at 1600 Emil Street, Madison, WI 53713.

REQUEST FOR BIDS FOR PUBLIC WORKS CONSTRUCTION FOR THE CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

Plans and Specifications for Public Works Projects that are open for bid are available on the City of Madison website at http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm or by calling City Engineering at 608-266-4751.

Sealed bids must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer.

Prevailing Wage Rates may be required and are attached in Section I of the contract. See Special Provisions to determine applicability.

Bidders must be prequalified with the City Engineer and the Affirmative Action Director. Deadline date for submittal of application is noticed on our website. Forms are available on the web at http://www.cityofmadison.com/business/pw/forms.cfm or by contacting City Engineering at 608-266-4620

Publ. WSJ 6/29/12, 7/6/12, 7/13/12

SECTION B: INSTRUCTIONS TO BIDDERS

The City of Madison Standard Specifications for Public Works Construction - 2012 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website at www.cityofmadison.com/Business/PW/specs.cfm or by contacting City Engineering Division, Room 115, City-County Building, 210 Martin Luther King Jr. Blvd., Madison, WI 53703.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102 "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103 "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

Section 102.1: Pre-Qualification of Bidders

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be prequalified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)l. of the Madison General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms. The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the Madison General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

Section 102.4: Proposals

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid musts be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of

06/13/12-6901SPECS.doc B-1

which such corporation was chartered. The required signatures shall in all cases appear in the space provided therefore on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor. Proposals will be received at the place and until the hour on the date designated in the advertisement. When sent by mail, the sealed proposal marked as indicated above shall be enclosed in an additional envelope. Proposals sent by mail, submitted in person or otherwise delivered must be in the hands of the official conducting the letting by the hour on the date designated in the advertisement. Proposals received after the date designated will be returned to the bidder unopened.

The Bidder shall execute form ERD-7777 (R.9/03), a part of these proposal pages and submit same with the bidder's proposal, if applicable. REFER TO PROPOSAL SECTION.

Section 102.5: Bid Deposit (Proposal Guaranty)

No proposal shall be considered unless either (i) it is accompanied by a bid deposit of the character and amount described in the Advertisement for Bids or (ii) a biennial bid bond in an amount and form acceptable to the City of Madison has been previously submitted.

Bid deposits of unsuccessful bidders shall be returned following the award of the contract by the Common Council. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

B-2

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an ⊠

| Buil | ding | Demolition | | | |
|------|-------------|--|-----|-------------|--|
| 101 | | Asbestos Removal | 110 | | Building Demolition |
| 120 | | House Mover | | | |
| Stre | eet, | Utility and Site Construction | | | |
| 201 | | Asphalt Paving | 265 | | Retaining Walls, Precast Modular Units |
| 205 | | Blasting | 270 | | Retaining Walls, Reinforced concrete |
| 210 | | Boring/Pipe Jacking | 275 | | Sanitary, Storm Sewer & Water Main Const. |
| 215 | | Concrete Paving | 280 | | Sewer Lateral Drain Cleaning/Internal TV Insp. |
| 220 | \boxtimes | Con. Sidewalk/Curb & Gutter/Misc. Concrete Work | 285 | | Sewer Lining |
| 221 | | Concrete Bases and Other Concrete Work | 290 | | Sewer Pipe Bursting |
| 225 | | Dredging | 295 | | Soil Borings |
| 230 | | Fencing | 300 | | Soil Nailing |
| 235 | \boxtimes | Fiber Optic Cable/Conduit Installation | 305 | | Storm & Sanitary Sewer Laterals & Water Svc. |
| 240 | | Grading and Earthwork | 310 | | Street Construction |
| 242 | | Infrared Seamless Patching | 315 | \boxtimes | Street Lighting |
| 245 | | Landscaping, Maintenance | 318 | | Tennis Court Resurfacing |
| 250 | | Landscaping, Site and Street | 330 | | Traffic Control During Construction |
| 251 | | Parking Ramp Maintenance | 320 | | Traffic Signals |
| 255 | | Pavement Sealcoating and Crack Sealing | 325 | | Traffic Signing & Marking |
| 260 | | Petroleum Above/Below Ground Storage Tank | 335 | | Trucking |
| | ***** | Removal/Installation | 399 | | Other |
| | | | | | |
| | | | | | |
| Bric | lge (| <u>Construction</u> | | | |
| 501 | | Bridge Construction and/or Repair | | | |
| | | | | | |
| Buil | ding | Construction | | | |
| 401 | | Floor Covering (including carpet, ceramic tile installation, | 435 | | Masonry |
| | | rubber, VCT | 437 | | Metals |
| 402 | | Building Automation Systems | 440 | | Painting and Wallcovering |
| 403 | | Concrete | 445 | | Plumbing |
| 404 | | Doors and Windows | 450 | | Pump Repair |
| 405 | | Electrical - Power, Lighting & Communications | 455 | | Pump Systems |
| 410 | | Elevator - Lifts | 460 | | Roofing and Moisture Protection |
| 412 | | Fire Suppression | 461 | | Solar Photovoltaic/Hot Water Systems |
| 413 | | Furnishings - Furniture and Window Treatments | 465 | | Soil/Groundwater Remediation |
| 415 | | General Building Construction, Equal or Less than \$250,000 | 466 | | Warning Sirens |
| 420 | | General Building Construction, \$250,000 to \$1,500,000 | 470 | | Water Supply Elevated Tanks |
| 425 | | General Building Construction, Over \$1,500,000 | 475 | | Water Supply Wells |
| 428 | | Glass and/or Glazing | 480 | | Wood, Plastics & Composites-Structural & |
| 429 | | Hazardous Material Removal | | | Architectural |
| 430 | | Heating, Ventilating and Air Conditioning (HVAC) | 499 | | Other |
| 433 | | Insulation - Thermal | | | |
| | | | | | |

B-3

| Sta | te of | Visconsin Certifications |
|-----|-------|---|
| 1 | | Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts. |
| 2 | | Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height. |
| 3 | | Class 7 Blaster - Blasting Operations and Activities for structures greater than 15 ' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster". |
| 4 | | Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.) |
| 5 | | Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: http://www.dhs.wisconsin.gov/Asbestos/Cert/Index.htm . State of Wisconsin Performance of Asbestos Abatement Certificate must be attached. |
| 6 | | Other |
| | | |

B-4

SECTION C: SBE

Instructions to Bidders City of Madison SBE Program Information

SBE (Not Applicable)

SECTION D: SPECIAL PROVISIONS

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.10: MINIMUM RATE OF WAGE SCALE

The wages and benefits paid on the contract shall not be less than those specified in the Prevailing Wage Determination included with these contract documents for the following types of work:

| \boxtimes | Building and Heavy Construction |
|-------------|--|
| | Sewer, Water, and Tunnel Construction |
| | Local Street and Miscellaneous Paving Operations |
| | Residential and Agricultural Construction |

SECTION 102.12: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$51,500 for a single trade contract; or equal to or greater than \$251,000 for a multi-trade contract pursuant to MGO 33.07(7).

Article 102.13 Equal Benefits Requirement. (Sec. 39.07, MGO)

This provision applies to contracts executed by the City on July 1, 2012 or later, unless exempt by Sec. 39.07 of the Madison General Ordinances (MGO).

For the duration of this Contract, the Contractor agrees to offer and provide benefits to employees with domestic partners that are equal to the benefits offered and provided to married employees with spouses, and to comply with all provisions of Sec. 39.07, MGO. If a benefit would be available to the spouse of a married employee, or to the employee based on his or her status as a spouse, the benefit shall also be made available to a domestic partner of an employee, or to the employee based on his or her status as a domestic partner. "Benefits" include any plan, program or policy provided or offered to employees as part of the employer's total compensation package, including but not limited to, bereavement leave, family medical leave, sick leave, health insurance or other health benefits, dental insurance or other dental benefits, disability insurance, life insurance, membership or membership discounts, moving expenses, pension and retirement benefits, and travel benefits.

<u>Cash Equivalent</u>. If after making a reasonable effort to provide an equal benefit for a domestic partner of an employee, the Contractor is unable to provide the benefit, the Contractor shall provide the employee with the cash equivalent of the benefit.

<u>Proof of Domestic Partner Status</u>. The Contractor may require an employee to provide proof of domestic partnership status as a prerequisite to providing the equal benefits. Any such requirement of proof shall comply with Sec. 39.07(4), MGO.

<u>Notice Posting, Compliance</u>. The Contractor shall post a notice informing all employees of the equal benefit requirements of this Contract, the complaint procedure, and agrees to produce records upon request of the City, as required by Sec. 39.07, MGO.

<u>Subcontractors</u>. Contractor shall require all subcontractors, the value of whose work exceeds the single-trade minimum set forth in Sec 33.07(7)(b)5., MGO, to provide equal benefits in compliance with Sec. 39.07, MGO.

See Section 39.07 MGO for exemptions from this requirement. Exemptions from this requirement include a Contractor whose employees are under a collective bargaining agreement that was in effect prior to July 1, 2012, however, the Contractor must agree to propose to the applicable collective bargaining unit(s) that an equal benefit requirement consistent with this ordinance be incorporated into the next collective bargaining agreement or in the existing agreement upon amendment, extension or other modification that occurs after July 1, 2012.

SECTION 104: SCOPE OF WORK

The project consists of the following work in Tenney Park:

- Coordinate, obtain and pay for all permits, fees and inspections required for this project
- Removal and disposal of existing lighting system
- Purchase, coordination of delivery, delivery, installation of new lighting systems as per these plans and specifications
- Concrete foundation installation (according to manufacturer), for new light poles
- All trenching, conduit, wiring and electrical connections required to get the new lights into working order as per these plans and specifications and all state and local electrical codes.
- All trench, footing and court surface repair (except for color), required to bring tennis court or lawn surfaces back to pre-construction condition.
- All testing of the system to assure it is working as per manufacturers requirements

SECTION 105.1: AUTHORITY OF THE ENGINEER

The Engineer shall resolve all questions which arise as to the quality and acceptability of materials furnished, work performed, manner of performance, rate of progress of the work, interpretation of the plans and Specifications, acceptable fulfillment of the contract, compensation, and disputes and mutual rights between Contractors under the Specifications. The Engineer shall determine the amount and quantity of work performed and materials furnished.

All decisions of the Engineer shall, when so requested, be rendered in writing. They shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor applies in writing to the Board of Public Works for a review of such decision.

Any change proposed by a Contractor in SBE subcontractors, vendors or suppliers from those SBEs indicated on the SBE Compliance Report must be approved by the Engineer and the City's Manager of the Affirmative Action Division (hereafter, AAD). When requested, such decision shall be rendered in writing. Such decisions shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor or the affected SBE applies in writing to the Board of Public Works for a review of such decision.

In the event the Engineer and the AAD disagree over the proper decision to be made regarding an SBE, the Mayor shall appoint a third person to resolve the disagreement, within 30 days of appointment. The

06/13/12-6901SPECS.doc D-2

decision thus rendered may be reviewed by the Board of Public Works upon request of the Contractor or the affected SBE as set forth in Sections 105.1 and 105.2 of the City's standard specifications.

SECTION 105.12: COOPERATION OF THE CONTRACTOR

Contractor to note - this is a tight construction schedule. In an effort to keep on schedule, multiple shipping of footings or other parts may be necessary in an effort to meet the construction deadline.

SECTION 105.9: SURVEYS, POINTS, AND INSTRUCTION

The contractor will be responsible for all layout, lines and/or grades required to complete the work for the installation of the light poles. The contractor will layout the footings and the trench routes, then call the Parks Division for location/route approval prior to any digging. The City of Madison Parks Division will make available to the surveyor an electronic copy of the project upon request. Any questions regarding this project should be directed to Thomas Maglio at the Parks Division @ 266-6518. Any questions regarding surveying issues should be directed to Dan Rodman of the Parks Division @ 266-6674.

SECTION 107.14: WEAPONS PROHIBITION

Contractor shall prohibit, and shall require its subcontractors to prohibit, its employees from carrying weapons, including concealed weapons, in the course of performance of work under this Contract, other than while at the Contractor's or subcontractor's own business premises. This requirement shall apply to vehicles used at any City work site and vehicles used to perform any work under this Contract, except vehicles that are an employee's "own motor vehicle" pursuant to Wis. Stat. sec. 175.60(15m).

SECTION 107.2: PROTECTION/RESTORATION OF PROPERTY

The contractor must repair any damage to park areas from construction operations outside of the work area, at the contractor's expense. Contractor shall protect all facility improvements in and around the softball complex.

SECTION 109.2: PROSECUTION OF THE WORK

Construction work must begin within seven (7) calendar days after the date appearing on mailed notice to do so. Once started, work shall be carried on at a rate so as to secure full completion within the contract time, the rate of progress and the time of completion being essential conditions of this Agreement. The calendar completion date of this contract is December 14, 2012.

Work on this project should be scheduled through Thomas J. Maglio from the Parks Division, at (608) 266-6518 or (cell) (608) 576-9673

SECTION 109.9 LIQUIDATED DAMAGES

Should the Contractor fail to complete the work within the time specified in the contract, or within such extra time as may have been allowed by extensions, there shall be deducted from any monies due or that may become due the Contractor, or in the event no monies are due, the Contractor shall pay to the City, the sum set forth in the following schedule for each and every day that the work shall remain uncompleted. This sum shall be considered and treated not as a penalty but as fixed, agreed and liquidated damages due the City from the Contractor by reason of inconvenience to the public, added cost of engineering and supervision, maintenance of detours and other items which have caused an expenditure of public funds resulting from the Contractor's failure to complete the work within the time specified in the contract.

06/13/12-6901SPECS.doc D-3

The fixed, agreed and liquidated damages shall be assessed, unless otherwise specified, in accordance with the following schedule, which represents the City's estimate of damages at the time of contracting:

| | CONTRACT | AMOUNT | |
|----------------|------------------|--------------|--------------------|
| ORIGINAL CONT | RACT AMOUNT | DAILY CH | ARGE |
| From More Than | To and Including | Calendar Day | Working Day |
| \$ 0 | \$ 50,00 | \$ 150.00 | \$ 300.00 |
| 50,000 | 100,00 | 180.00 | 360.00 |
| 100,000 | 300,00 | 295.00 | 590.00 |
| 300,000 | 500.00 | 480.00 | 960.00 |
| 500,000 | 1,000,000 | 665.00 | 1,330.00 |
| \$ 1,000.000 | \$ | \$ 990.00 | \$ 1,980.00 |

SECTION 301.2(I) METHODS AND EQUIPMENT

The work to be done under this contract consists of furnishing all materials, labor and equipment necessary to purchase and install a lighting system for the Tenney Park tennis courts, and to bring them to full operational completion in accordance with the drawings and specifications.

MOBILIZATION

Included in the lump sum bid will be all costs associated with mobilization of the Contractor to the site. Parking of equipment, storage of materials and staging shall be allowed in the parking lot adjacent to the shelter as shown on the drawings.

REMOVE/DISPOSE OF EXISTING LIGHTING SYSTEM

Included in the lump sum bid will be all work, materials, labor, and incidentals required to remove and dispose of the existing lighting system for the tennis courts as detailed below:

- Removal/disposal of all existing poles, arms and fixtures
- Remove all existing electrical service equipment
- Remove existing three wire feeder from ground box in lawn adjacent to shelter to electrical service equipment
- Removal of footings and threaded rods outside the fence to 12" below existing grade
- Removal of footings and threaded rods inside the fence to 24" below existing grade
- Saw cut the edges of the holes created by removing the footings on the inside of the fence
- Careful filling and compaction of the footings inside the fence with 3/4" gravel w/fines prior to hot mix asphalt patch
- Hot mix patch the holes created by removing the poles inside the fence (3" of asphalt)
- Repair of any surface damage to the tennis courts due to removal of the lights/footings inside the courts
- Topsoil, seed and mulch the holes created by removing the poles outside the fence and any other turf damage due to removal

Contractor to note – the color system for the patched areas where the poles were removed inside the fence will be done under separate contract in the spring of 2013.

The disposal the existing lighting system is to be off site in a location to be determined and provided by the contractor and will be at no extra cost to the City

AS BUILT DRAWING COMPLETE

Included in the lump sum bid will be all work, materials, labor, and incidentals required to develop an electronic (CAD - MicroStation), as-built drawing of the lighting systems as installed. The City will supply the contractor with a CD of the original base map/electrical plan from which the contractor will take as-built measurements out in the field and revise the original base map/electrical plan supplied on the CD accordingly.

PURCHASE/INSTALL TENNIS COURT LIGHTING SYSTEM

Included in the lump sum bid will be all materials, labor and incidentals necessary to purchase and install lighting systems for 3 tennis courts as per the enclosed plans, and the following specifications:

TENNEY PARK TENNIS COURT LIGHTING SYSTEM - PERFORMANCE SPECIFICATIONS

Summary

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the performance and design standards for tennis court lighting at Tenney Park. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth by the criteria set forth in these specifications. The "basis for design" for this project is Musco Light Structure Green.
- C. The sports lighting will be for the following:
 - 3 Tennis Courts at Tenney Park
 402 N. Thornton Ave., Madison, WI 53703
- D. The primary goals of this sports lighting project are:
 - 1. <u>Life Cycle Cost</u>: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate.
 - 2. <u>Environmental Light Control</u>: It is the primary goal of this project to minimize spill light and glare.

1.2 Lighting Performance

A. <u>Performance Requirements</u>: playing surfaces shall be lit to an average constant light level and uniformity as specified in the chart below. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified below. Measured average illumination level shall be +/- 10% of predicted mean in accordance with iesna rp-6-01, and measured at the first 100 hours of operation.

| Area of Lighting | Average Constant Light Levels | Maximum to Minimum Uniformity Ratio | Grid Points | Grid Spacing |
|-------------------|----------------------------------|--|-------------|--------------|
| (3) Tennis Courts | 50 footcandles | 2.0:1.0 | 45 | 20' x 20' |

- B. <u>Mounting Heights</u>: To ensure proper aiming angles for reduced glare and to provide better playability, the pole mounting heights from the playing field surface shall be 50'
- C. <u>Energy Consumption</u>: The average kW consumption for the field lighting system shall be: 18.8 kW consumption for the Tennis Courts

1.3 Warranty And Guarantee

A. <u>25-Year Warranty</u>: Each manufacturer shall supply a signed warranty covering the entire system for 25 years OR for the maximum hours of coverage based on the estimated annual usage, whichever occurs first. Warranty shall guarantee light levels; lamp replacements; system energy consumption; monitoring, maintenance and control services, spill light control, and structural integrity. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty may exclude fuses, storm damage, vandalism, abuse and unauthorized repairs or alterations.

1.4 Delivery Timing

<u>Equipment On-Site</u>: The equipment must be on-site 4-6 weeks from receipt of approved submittals and receipt of complete order information. Contractor to note - this is a tight construction schedule. In an effort to keep on schedule, multiple shipping of system parts (anchor bolts, etc.), may be necessary in an effort to meet the construction deadline.

1.5 Pre-Bid Submittal Requirements

- A. <u>Approved Product</u>: Musco's Light-Structure GreenTM System is the approved product and "basis for design." All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section by 2:00 PM, Wednesday, July 11. Special manufacturing to meet the standards of this specification may be required. An addendum will be issued prior to bid, listing any other approved lighting manufacturers and designs.
- B. <u>Design Approval</u>: The owner/engineer will review pre-bid shop drawings from the manufacturer's to ensure compliance to the specification. If the design meets the design requirements of the specifications, a letter will be issued by EOB, Friday, July 13th to the manufacturer indicating approval for the specific design submitted.

1.6 Controls and Monitoring

<u>Preventative and Spot Maintenance</u>: Manufacturer shall provide all preventative and spot maintenance, including parts and labor for 25 years from the date of equipment shipment. Individual lamp outages shall be repaired when the usage of any field is materially impacted. Owner agrees to check fuses in the event of a luminaire outage.

Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The manufacturer shall notify the owner of outages within 24 hours, or the next business day. The controller shall determine switch position (Manual or Auto) and contactor status (open or closed).

Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.

The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields, to only having permission to execute "early off" commands by phone.

Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

<u>Management Tools</u>: Manufacturer shall provide a web-based database of actual field usage and provide reports by facility and user group.

<u>Communication Costs</u>: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 25 years.

1.7 Alternate System Requirements

- A. <u>Compliance to Specifications</u>: Acceptance of a bid alternate does not negate the contractor and lighting manufacturer's responsibility to comply fully with the requirements of these specifications. Any exceptions to the specifications must be clearly stated in the prior approval submittal documents.
- B. <u>Light Level Requirements</u>: Manufacturer shall provide computer models guaranteeing light levels on the field for 5000 hours. If a constant light level cannot be provided, a maximum Recoverable Light Loss Factor of 0.70 shall be applied to the initial light level design to achieve the following Initial and maintained light levels shown in the table below. For alternate systems, scans for both initial and maintained light levels shall be submitted.

| Area of Lighting | Average Constant Light Levels | Average Target/Maintained Light Levels | Maximum to Minimum Uniformity Ratio | Grid Points | Grid Spacing |
|----------------------|-------------------------------------|--|---|----------------|-----------------|
| (3) Tennis Courts | 71.43 footcandles | 50 footcandles | 2.0:1.0 | 45 | 20' x 20' |

- C. Lighting level of alternate system may be within 3% of basis-of-design system if the Watt per foot-candle ratio is equal or better.
- D. <u>Revised Electrical Distribution</u>: Manufacturer shall provide revised electrical distribution plans to include changes to service entrance, panel, and wire sizing.

1.8 Electrical System Requirements

A. <u>Contractor Responsibility</u>: The installing contractor shall be responsible for providing the equipment and installation of a complete and operational system commencing from the load side of the service transformer and terminating at the safety disconnect within the electrical enclosure, 10' above grade, on each lighting pole. The electrical contractor shall coordinate the transformer and switchgear locations, as well as identifying the voltage and phase of the service, with the local power company and the Owner's representative before any equipment is installed.

Summary of Electrical Service Materials and Work to be Included in Bid:

- Install new electrical enclosure (Hoffman A62H6018LP3PT); Enclosure to be mounted on 24" x 48" concrete piers
- Extend existing 3" PVC into enclosure and terminate in 8" x 8" x 24" trough
- Install new Square D QO130M200 load center in enclosure directly above trough
- Install Musco supplied lighting controller in enclosure next to load center
- Install new 2" conduits out of lighting controller to pull boxes at each pole

- Extend (9) 1/0 copper conductors from pull box in lawn by shelter to 8" x 8" trough: 3 conductors for phase "A"; 3 conductors for phase "B"; 3 conductors for "N"; Connections in pull boxes to be made with water tight connectors; Transition from (3) 1/0 per phase to (1) 3/0 per phase in 8" x 8" trough at enclosure; Terminate 3/0 phase conductors at main breaker; "N" conductor at neutral bar in new Square D load center.
- Install new grounding system at new service enclosure
- Furnish and install necessary breakers for new lighting system
- All conduit exposed above ground to be rigid steel
- B. <u>Maximum total voltage drop</u>: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
- C. System Design:
 - 1. The electrical system equipment shall consist of:
 - a. Conductors and conduit from the main service transformer to the service entrance panel board.
 - b. The service entrance panel board with appropriate individual circuit over-current protection. The panel board shall meet local and National Electrical Code (NEC) requirements for the size of the service, AIC rating, and the type of the environment to which it will be exposed. All feeder breakers shall be bolt on type.
 - c. Conductors and conduit for the feeder circuit from the service entrance panel board (or from the contactor panel if applicable) to the safety disconnect mounted in the electrical enclosure on each lighting pole 10' above grade.
 - d. Grounding conductors and grounding methods for the following:
 - (1) The main service entrance panel board. (per NEC or local codes)
 - (2) The lighting contactor enclosure. (per NEC or local codes)
 - (3) Each electrical component enclosure mounted on the lighting poles. (Equipment Grounding System) (per NEC or local codes)
 - (4) Lightning Protection for individual poles as follows (per NFPA 780):
 - (a) A 5/8 inch x 8 foot copper-clad grounding electrode buried vertically in undisturbed earth. The bottom tip of the grounding electrode should reach a minimum of 10 feet below grade.
 - (b) A copper grounding electrode conductor shall be connected to the top of the grounding electrode and extend and connect to the grounding lug located inside the hand hole of the pole approximately 10 feet above grade. The size of this conductor shall be 2 AWG if the pole is 75 feet in height or less, and 2/0 AWG if the pole is greater than 75 feet.
 - 2. Underground wiring shall be all copper wire and shall be installed in PVC Schedule 40 conduit and shall be buried to a depth meeting the NEC and local electrical codes. Acceptable copper wire types need to comply with any local requirements, but will be labeled either THHN or THWN. If above ground conduit must be used, it shall be rigid galvanized steel. Conduit elbows located at the electrical panel should be rigid conduit, as opposed to PVC.
 - 3. Each pole is to have an electrical pull box the type as shown on the plans. All pull boxes are to be supplied by the contractor and installed per the City of Madison Standard Specifications for Public Works Contracts.

Pullbox Specifications:

Electrical Pullbox, Type I shall be gray colored polymer concrete construction. Box dimensions for Type I shall be 19" wide x 32" long x 24" deep and come with a cover rated to withstand 15,000 lbs over a 10" square with a minimum test load of 22,568 lbs.

4. Push button strobe on/off system to be provided by lighting manufacturer, installed per enclosed specifications by contractor.

D. Trenching or Directional Boring:

- 1. The installing contractor shall be responsible for locating all underground utilities including, but not limited to, natural gas, electric, water, sewer, cable TV and telephone.
- 2. The owner shall be responsible for locating and staking any underground facilities that are not utility related. Owner accepts responsibility for damage to such facilities that are not properly located or staked.
- 3. Trenching depth and width shall be adequate to install appropriately sized conduit and to meet local and National Electrical Codes.
- 4. Trenches shall be back-filled with excavated soil and compacted to approximately the same density of the surrounding soil to minimize settlement.
- 5. No trench line or feeder circuit shall cross the playing area.

E. Design Standards:

- 1. All circuits shall be designed so as not to exceed a 3% voltage drop at the safety disconnect in the electrical enclosure near the base of each pole.
- 2. All work shall meet local and National Electrical Codes. It shall be the installing contractors' responsibility to correct any work deemed unacceptable by local electrical inspectors.
- 3. All electrical components shall be UL Listed for the appropriate application.
- 4. Each pole shall be on a dedicated circuit. If common poles are to be used, or a pole is to have fixtures on a separate circuit, another dedicated circuit shall be ran to that pole. Consult lighting equipment specifications and lighting manufacturer for special circuitry information.

F. Submittal Information:

The successful contractor shall provide an electrical plan detailing all of the equipment described above, including conduit locations to the owner prior to commencing work. This electrical plan shall bear the stamp of an Electrical Engineer with P.E. status within the State of WI.

PART 2 - PRODUCT

2.1 Lighting System Construction

A. System Description: Lighting system shall consist of the following:

1. Galvanized steel poles and cross arm assembly.

- 2. Pre-stressed concrete base embedded in concrete backfill allowed to cure 12-24 hours before pole stress is applied. Alternate may be an anchor bolt foundation designed such that the steel pole and any exposed steel portion of the foundation be located a minimum of 18 inches above final grade. The concrete shall be allowed to cure for a minimum of 28 days before the pole stress is applied.
- 4. All luminaires shall be constructed with a die-cast aluminum housing or external hail shroud to protect the luminaire reflector system.
- 5. Manufacturer will remote all ballasts and supporting electrical equipment in aluminum enclosures mounted approximately 10' above grade. The enclosures shall include ballast, capacitor and touch-safe fusing to indicate when a fuse is to be replaced for each luminaire. Safety disconnect per circuit for each pole structure will be located in the enclosure.
- 6. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.

- B. <u>Manufacturing Requirements</u>: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, ballast and other enclosures shall be factory assembled, aimed, wired and tested.
- C. <u>Durability</u>: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel of 18-8 grade or better, passivated and coated for protection against corrosion and stress corrosion cracking. All wiring shall be enclosed within the crossarms, pole, or electrical components enclosure.
- D. <u>Lightning Protection</u>: All structures shall be equipped with lightning protection meeting NFPA 780 standards. Contractor shall supply and install a ground rod of not less than 5/8" in diameter and 8' in length, with a minimum of 10' embedment. Ground rod should be connected to the structure by a copper main down conductor with a minimum size of #2 for poles with less than 75' mounting height and 2/0 for poles with more than 75' mounting height.
- E. Safety: All system components shall be UL Listed for the appropriate application.
- F. Electric Power Requirements for the Sports Lighting Equipment:
 - 1. Electric power: System voltage is 120/240 single phase
 - 2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.

2.2 Structural Parameters

- A. <u>Support Structure Wind Load Strength</u>: Poles and other support structures, brackets, arms, bases, anchorages and foundations shall be determined based on the 2009 IBC Building Code or applicable Wisconsin Code, whichever is more strict. Design for wind speed of 90 MPH, exposure category C and an importance factor of 1.0. Luminaire, visor, and crossarm shall withstand 150 mph winds and maintain luminaire aiming alignment.
- B. <u>Structural Design</u>: The stress analysis and safety factor of the poles shall conform to AASHTO 2009 (LTS-5) Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.
- C. <u>Soil Conditions</u>: The design criteria for these specifications are based on soil design parameters as outlined in the geotechnical report. If a geotechnical report is not provided by the owner, the foundation design shall be based on soils that meet or exceed those of a Class 5 material as defined by 2009 IBC.

PART 3 - EXECUTION

3.1 Field Quality Control

- A. <u>Illumination Measurements</u>: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA RP-6-01, Appendix B.
- B. <u>Correcting Non-Conformance</u>: If the actual performance levels including footcandles, uniformity ratios, and maximum kilowatt consumptions are not in conformance with the requirements of the performance specifications and submitted information, the Contractor shall correct or replace the lighting system until the performance levels defined are achieved within 3%. Watt per foot-candle ratio must not be increased above specified design levels.

END OF SPECIAL PROVISIONS

| | Pole Pole | Pole | Co-Live N | | Luminaires | S | 100000 | Section . |
|----|--------------------------|----------------|-----------|------------------------|-----------------------|---------------|--------|-----------|
| μö | LOCATION | SIZE | GRADE | MOUNTING | LAMP | QTY / POLE | THIS | OTHE |
| 4 | T1-T4 | 20, | | 20, | 1500W MZ | 3 | - 1 | 0 |
| 4 | NAME OF STREET PROPERTY. | School Billion | TOTALS | head in some something | Shipton British Ships | 12 | 12 | 0 |

| The second | | Luminaire | S | The Contract | Successor |
|------------|-------------------------|-----------|---------------|--------------|-----------|
| GRADE | MOUNTING | LAMP | QTY / POLE | THIS | GRIDS |
| - | 20, | 1500W MZ | | n | _ |
| TOTALS | September 2 September 2 | | 12 | 12 | 0 |



Name: Tenney Tennis Location: Madison,WI

GRID SUMMARY

Size: 3 Court - 10' Spacing Name: Tenney Tennis

Spacing: 20.0' x 20.0'

3.0' above grade Height:

> F .62

20

57

4749

45

4847

26

45

,SÞ

| CONSTANT ILLUMINATION | IINATION | |
|-----------------------|------------------|------------------------|
| SUMMARY | HORIZONTA | HORIZONTAL FOOTCANDLES |
| | Entire Grid | |
| Guaranteed Average: | 20 | |
| Scan Average: | 52.3 | |
| Maximum: | 63 | |
| Minimum: | 4 | |
| Avg / Min: | 1.20 | |
| Guaranteed Max / Min: | 2 | |
| Max / Min: | 1.44 | |
| UG (adjacent pts): | 0.00 | |
| Š | 0.09 | |
| No. of Points: | 45 | |
| LUMINAIRE INFORMATION | 2 | |
| Luminaire Type: | Green Generation | |
| Rated Lamp Life: | 5,000 hours | |
| Avg Lumens / Lamp: | 134,000 | |
| Avg Lamp Tilt Factor: | 1.000 | |
| No. of Luminaires: | 12 | |
| Avg KW: | 18.77 (20.4 max) | |

54

57

5153

49

5664

28

D-11

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed

56

61

5254

49

5664

63

228

48

53

5151

5553

59

57

for the rated life of the lamp.

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Draw Chart and/or the "Musco Control System Summary" Electrical System Requirements: Refer to Amperage for electrical sizing.

55

56

45

*

nominal voltage at line side of the ballast and structures Installation Requirements: Results assume +/- 3% located within 3 feet (1m) of design locations.

ENGINEERED DESIGN

By: Brad Hannon File # / Date: 157499R1

01-Jun-12

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ILLUMINATION SUMMARY

SCALE IN FEET 1:30 30.

Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

EQUIPMENT LAYOUT

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01-Jun-12

By: Brad Hannon

File # / Date: 157499R1



MY PROJECT

Name: Tenney Tennis Location: Madison,WI

EQUIPMENT LAYOUT

 Tenney Tennis INCLUDES:

F 79

17

<u>გ</u> ₩

.97

Draw Chart and/or the "Musco Control System Summary" for electrical sizing. Electrical System Requirements: Refer to Amperage

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

| 8 | QUIPMENT LIST FOR AREAS SHOWN | T LIST | FOR AR | EAS SHO | NAIO | |
|-------|---|----------|---|----------|------------|-----|
| 100 A | Ь | Pole | 200000000000000000000000000000000000000 | | Luminaires | |
| ďΥ | LOCATION | SIZE | GRADE | MOUNTING | LAMP | POL |
| 4 | T1-T4 | 20, | 1 | 50, | 1500W MZ | 3 |
| 4 | BOUNDAMENT OF THE PARTY OF THE | GISTANDU | TOTALS | S | | 12 |

| SINGLE LUMINAIRE AN Ballast Specifications (.30 min power factor) | MPER. | GE D | GE DRAW CHART line Amperage Per I (max draw) | age Pe | er Lum | Luminair | 6) |
|---|-------|------|--|--------|--------|----------|-----|
| Single Phase Voltage | 208 | (60) | 240 (60) | 277 | 347 | (09) | 480 |
| 1500 watt MZ | 8.6 | 7.7 | 7.5 | 6.5 | 5.1 | * | 3.7 |

| | Δ | Pole | A CONTRACTOR OF THE PERSON OF | | Luminaires | |
|----|----------|-------------------|---|----------|------------|-----|
| ďΣ | LOCATION | SIZE | GRADE | MOUNTING | LAMP | 9.0 |
| 4 | 11-T4 | 20, | | .05 | 1500W MZ | m |
| 4 | | BESTALDING | TOTALS | S | | 1 |

3 Court - 10' Spacing

Tenney Tennis

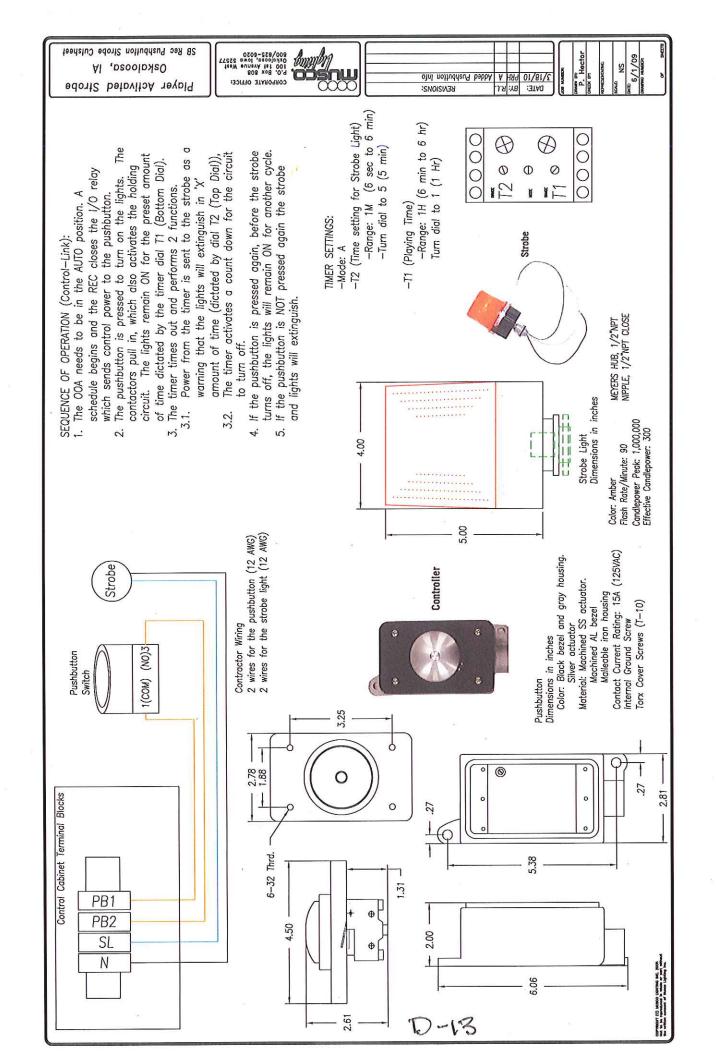
Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

SCALE IN FEET 1:30 30.

D-12

⇒ 4 ⊕ 7

gt.





Project Specific Notes:

Project Information

Project #: Project Name:

Tenney Tennis

Date:

05/22/12

157499

Project Engineer: Sales Representative: **Brad Hannon** Greg Smidt

Control System Type:

Control and Monitoring

Communication Type:

Digital Cellular

157499

Distribution Panel Location or ID:

Tennis

Total # of Distribution Panel Locations for Project: Design Voltage/Hertz/Phase:

480/60/3

Control Voltage:

120

Equipment Listing

DESCRIPTION

APPROXIMATE SIZE

1. Control and Monitoring Cabinet

24 X 48

Total Contactors

Total Off/On/Auto Switches:

of distribution panels, etc.

Materials Checklist

Contractor/Customer Supplied:

- ☐ A single control circuit must be supplied per distribution panel location.
 - If the control voltage is NOT available, a control transformer is required.
- ☐ Electrical distribution panel to provide overcurrent protection for circuits
 - Thermal/Magnetic circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- □ Wiring:
 - Dedicated control power circuit
 - Power circuit to and from lighting contactors
 - Monitoring circuit from surge protection device to Control and Monitoring cabinet 1
 - Harnesses for cabinets at remote locations
 - Means of grounding, including lightning around protection
- □ Electrical conduit wireway system
- Entrance hubs rated NEMA 4: must be die-cast zinc, PVC, or copper-free die-cast aluminum
- Mounting hardware for cabinets
- Control circuit lock-on device to prevent unauthorized power interruption to control power
- Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central(TM) operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation. Note: Activation may take up to 1 1/2 hours

IMPORTANT NOTES

- 1. Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's ballast enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
- 2. In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- 3. One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
- 4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- 5. A single control circuit must be supplied per control system.
- 6. Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor is 0.9.

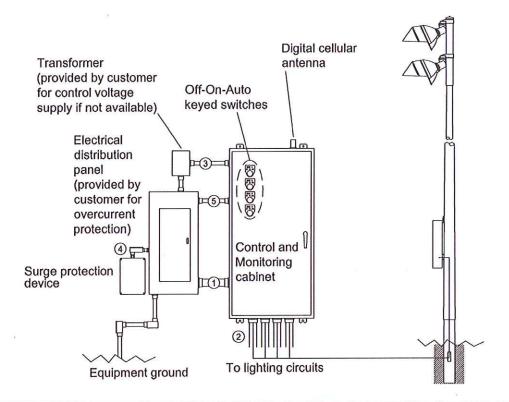
NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements



Tenney Tennis / 157499 - 157499 Tennis - Page 2 of 4

@1999,2012 Musco Sports Lighting,LLC Form: T-5030-1

Control·Link. Control and Monitoring System - Digital Cellular



| WIRE | DESCRIPTION | # OF WIRES | 3 | MAX. WIRE LENGTH (FT) | WIRE FROM MUSCO | NOTES |
|------|---|---------------|--------|--------------------------|--------------------|-------|
| 1 | LINE POWER & GROUND TO CONTACTORS | NOTE A | NOTE B | 27 | NO | A-E |
| 2 | LOAD POWER TO LIGHTING CIRCUITS | NOTE A | NOTE B | N/A | NO | A-D |
| 3 | CONTROL POWER (DEDICATED, 20A) | 3 | 12 | N/A | NO | C, D |
| 4 | SURGE PROTECTION DEVICE TO DISTRIBUTION PANEL | | | N/A | YES | D |
| 5 | SURGE PROTECTION DEVICE MONITORING | 2 | 14 | N/A | NO | C, D |

R60-25-00_C

Notes:

- A. Voltage and phasing per the notes on cover page
- B. Calculate per load and voltage drop
 C. All conduit diameters per code.
- D. Refer to Control and Monitoring System Installation Instructions for more details on equipment information and the installation requirements.
- E. Contact Musco if maximum wire length from circuit breaker to contactor exceeds value shown in chart.

IMPORTANT: Control (3) and monitoring (5) wiring must be in separate conduits from line and load power wiring (1,2).



Tenney Tennis / 157499 - 157499 Tennis - Page 3 of 4

Form: T-5030-1

SWITCHING SCHEDULE

Field Type Tennis

Zones

Zone Description
Tenney Tennis

| CONTROL P | OWER CONSUMPTION |
|-----------------------|------------------|
| 120V Single F | Phase |
| VA loading of Musco | INRUSH: 1065.0 |
| Supplied Equipment | SEALED: 189.0 |

| BALLAST SPECIFICATIONS .90 Minimum Power Factor | VOL | TAGE: | 480v | TH | IREE PH | IASE | (a |
|--|-----|-------|------|-----|---------|------|-----|
| BALLAST OPERATING VOLTAGE | 208 | 220 | 240 | 277 | 347 | 380 | 480 |
| 1500 Watt Metal Halide Lamp Operating line amperage per fixture- maximum | 8.6 | 7.7 | 7.5 | 6.5 | 5.1 | 0.0 | 3.7 |
| 1000 Watt Metal Halide Lamp Operating line amperage per fixture- maximum | 6.5 | 5.8 | 5.8 | 4.9 | 4.0 | 0.0 | 2.9 |

| | CIRCUIT SU | JMMARY BY | ZONE | | | |
|------|---------------------|------------------|----------------------|--------------------------|-----------|------|
| POLE | CIRCUIT DESCRIPTION | # OF FIXTURES | FULL LOAD AMPS | CONTACTOR SIZE (AMPS) | CONTACTOR | ZONE |
| T1 | Tenney Tennis | 3 | 7.4 | 30 | C1 | 1 |
| T2 | Tenney Tennis | 3 | 7.4 | 30 | C2 | 1 |
| T3 | Tenney Tennis | 3 | 7.4 | 30 | C3 | 1 |
| T4 | Tenney Tennis | 3 | 7.4 | 30 | C4 | 1 |

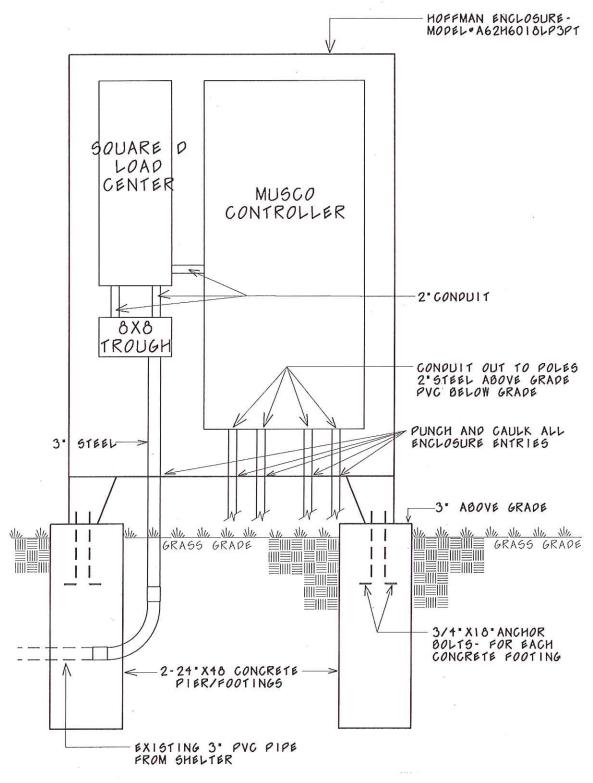


Tenney Tennis / 157499 - 157499 Tennis - Page 4 of 4

| | | | PANEL SUMMARY | | | |
|--------------|-------------------------------|-----------|---------------------|----------------------|---|---|
| CABINET # | CONTROL MODULE LOCATION | CONTACTOR | CIRCUIT DESCRIPTION | FULL LOAD AMPS | DISTRIBUTION PANEL ID (BY OTHERS) | CIRCUIT BREAKER POSITION (BY OTHERS) |
| 1 | 1 | C1 | Pole T1 | 7.40 | | |
| 1 | 1 | C2 | Pole T2 | 7.40 | | |
| 1 | 1 | C3 | Pole T3 | 7.40 | | |
| 1 | 1 | C4 | Pole T4 | 7.40 | | |

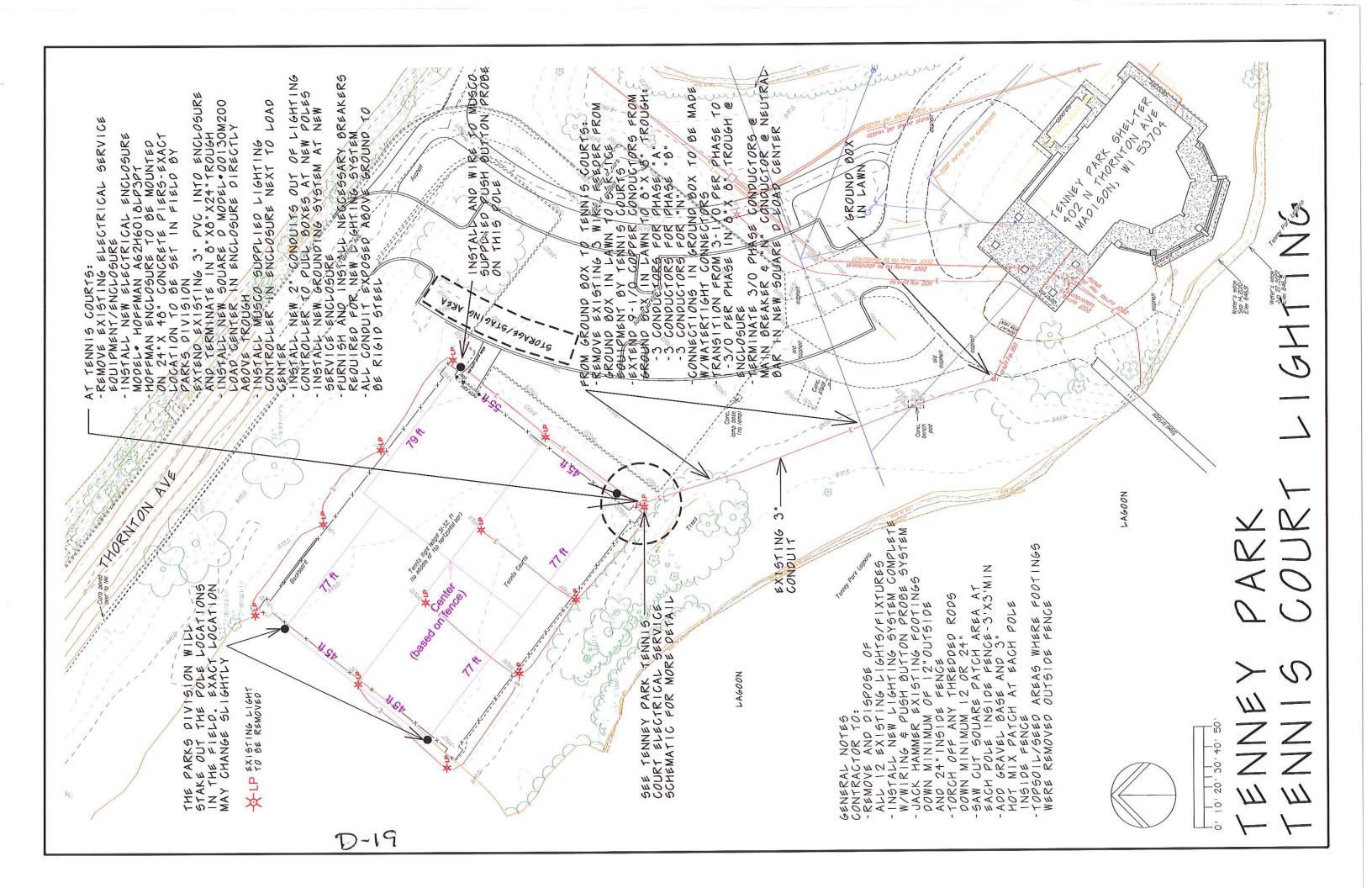
| | | ZONE SCHEDU | ILE | |
|--------|--------------------|------------------|---------|-----------------|
| | | | CIRCUIT | DESCRIPTION |
| ZONE | SELECTOR SWITCH | ZONE DESCRIPTION | POLE ID | CONTACTOR ID |
| Zone 1 | 1 | Tenney Tennis | T1 | C1 |
| | | 2 | T2 | C2 |
| | | | T3 | C3 |
| | | | T4 | C4 |

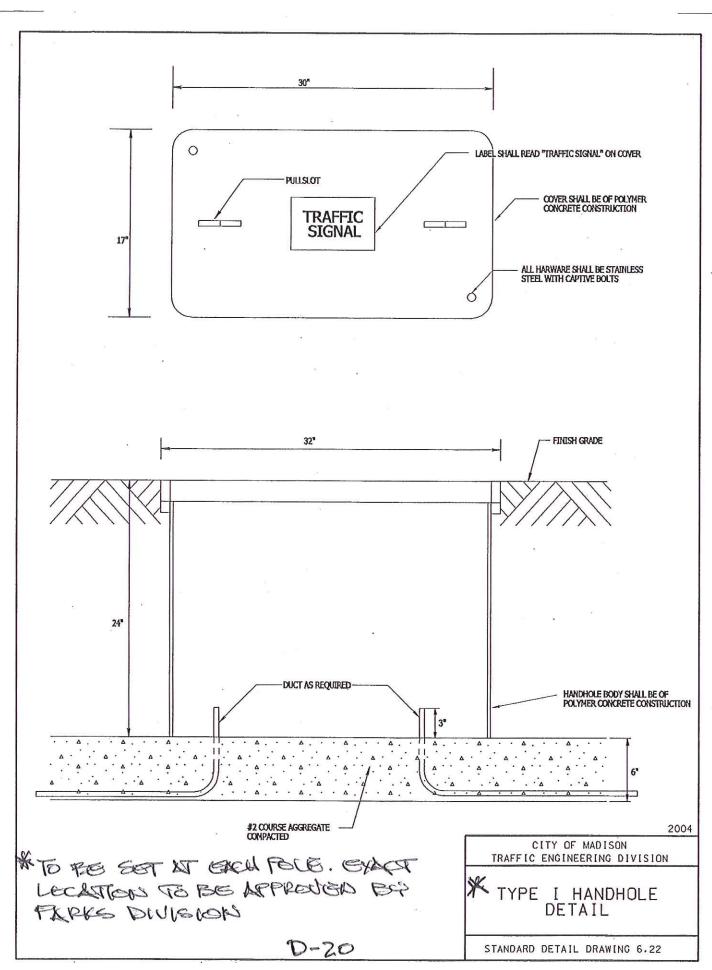
TENNEY PARK TENNIS COURT ELECTRICAL SERVICE SCHEMATIC



D-18

NO SCALE





SUBMITTAL CHECKLIST

Design Submittal Data Checklist and Certification

All items listed below are mandatory, shall comply with the specification, and be submitted by 2:00 PM, July 11th 2012.

| Tab | Item | Description |
|-----|--------------------------------|---|
| А | Checklist | Listing of all information being submitted must be included on the table of contents. List the name of the manufacturer's local representative and his/her phone number. Signed submittal checklist to be included. |
| В | Equipment Layout | Drawing(s) showing field layouts with pole locations. |
| С | On Field Lighting Design | Lighting design drawing(s) showing: a. Project Name, date, file number, prepared by, and other pertinent data b. Outline of court(s) being lighted, as well as pole locations referenced the same way as the system used as "basis of design". Illuminance levels at grid spacing specified c. Pole height, number of fixtures per pole, as well as luminaire information including wattage, lumens and optics d. Height of light level test meter above field surface e. Summary table showing the number and spacing of grid points; average, minimum and maximum illuminance levels in foot candles (fc); uniformity including maximum to minimum ratio, coefficient of variance and uniformity gradient; number of luminaries, total kilowatts, average tilt factor; light loss factor. f. Alternate manufacturers shall provide both initial and maintained light scans using a maximum 0.70 Light Loss Factor to calculate maintained values. |
| E | Life Cycle Cost Calculation | Document life cycle cost calculations as defined in the specification. Identify energy costs for operating the luminaires, maintenance cost for the system including spot lamp replacement, and group relamping costs. All costs should be based on 10 years. |
| G | Luminaire Aiming Summary | Document showing each luminaire's aiming angle and the poles on which the luminaries are mounted. Each aiming point shall identify the type of luminaire. |
| Н | Structural Information | Pole structural calculations and foundation design showing foundation shape, depth backfill requirements, rebar and anchor bolts (if required). Pole base reaction forces shall be shown on the foundation drawing along with soil bearing pressures. Design must be stamped by a structural engineer in the state of WI. |
| К | Performance Guarantee | Provide performance guarantee including a written commitment to undertake all corrections required to meet the performance requirements noted in these specifications at no expense to the owner. Light levels must be guaranteed per specification for 10 years. |
| L | Warranty | Provide written warranty information including all terms and conditions. |
| М | Project References | Manufacturer to provide a list of project references of similar projects completed within the past three years. |
| N | Product Information | Complete set of product brochures for all components, including a complete parts list, UL Listings, and Manufacturers Certificate of Corrosion Protection. |
| .0 | Delivery | Manufacturer shall supply an expected delivery timeframe from receipt of approved submittals and complete order information. |
| Р | Non- Compliance | Manufacturer shall list all items that do not comply with the specifications. If in full compliance, tab may be omitted. |

I understand that the information supplied herein shall be used for the purpose of complying with the specifications for Tenney Park Tennis Courts. By signing below I agree that all requirements of the specifications have been met and that the manufacturer will be responsible for any future costs incurred to bring their equipment into compliance for all items not meeting specifications and not listed in the Non-Compliance section.

| Manufacturer: | Signature: | |
|---------------|------------|--|
| Contact Name: | Date: / / | |



Construction • Geotechnical Consulting Engineering/Testing

May 2, 2012 C12075-3

Mr. Thomas Maglio
City of Madison – Dept. of Public Works
Madison Municipal Building Room 120
215 Martin Luther King Jr. Blvd.
P.O. Box 2987
Madison, WI 35701-2987

Re: Geotechnical Exploration Report

Tenney Park Light Towers

Madison, Wisconsin

Dear Mr. Maglio:

Construction • Geotechnical Consultants, Inc. (CGC) has completed the subsurface exploration program for the proposed light towers to be constructed near the four corners of the tennis courts at Tenney Park in Madison, Wisconsin. The purpose of the exploration program was to evaluate the site's subsurface conditions from a geotechnical engineering viewpoint and to provide soil parameters for the spread footings or drilled shafts proposed for the tower foundations. An electronic copy of this report is being submitted for your use.

PROJECT DESCRIPTION

We understand that there will be four light towers constructed at Tenney Park. The towers will replace 12 existing towers for the tennis courts. There were a total of two borings performed in the general area of tower construction. The towers will have a relatively small axial load and the foundation design will be predominately governed by lateral loading parameters. It is anticipated that approximately 30-inch diameter drilled shafts with prefabricated reinforcement cages will be used for the foundation, with depths ranging from about 10 feet (or deeper) below the existing ground surface. As an alternative, spread footing foundations may be built.

SITE CONDITIONS

The new light towers will be erected near the existing corners of the tennis courts. Overall, the site is relatively flat and grass covered. Estimated elevations are EL 849.3 (USGS datum) near Boring 1 and EL 848.5 near Boring 2.

FAX: 608/288-7887



Mr. Thomas Maglio City of Madison – Dept. of Public Works May 2, 2012 Page 2

SUBSURFACE CONDITIONS

The geotechnical exploration program consisted of drilling two Standard Penetration Test (SPT) soil borings to 30 ft below the existing ground surface on April 27, 2012. The borings were extended beyond anticipated shaft depths to document adequate soil bearing conditions and allow for changes in embedment, if necessary. More information regarding the drilling program is included in Appendix A of this report, with the boring locations presented on the Soil Boring Location Map found in Appendix B.

The subsurface conditions encountered at the site are as follows (in descending order):

- 17 to 18 in. of topsoil fill;
- About 1 to 1.5 ft of fill involving primarily loose sand in B-1 and stiff clay in B-2; followed by
- About 1 ft of loose *peat* in B-1 or 5.5 ft of very loose *sand intermixed with peat* seam/layers in B-2; over
- Loose to medium dense sand to the maximum depth explored. These granular soils are laminated at times, with the laminations involving lean clay at various depths.

Groundwater was encountered at depths of 2.5 to 4 ft during drilling. Groundwater levels can be anticipated to fluctuate based on seasonal variations in lake level, precipitation, infiltration, and other factors. More detailed information regarding soil and groundwater conditions at the sites is presented in the Boring Logs found in Appendix B.

DISCUSSION AND RECOMMENDATIONS

Based on the results of the geotechnical exploration program, it appears that drilled shaft foundations are better suited for the soil conditions on site, but spread footing foundations can also be considered. We recommend minimum shaft depths be 10 ft to be embedded and bear on reasonably firm soils. We conservatively estimate that end bearing will be a minimum of 2000 psf for the shafts that will bear in natural granular soils (i.e., sands or silts). Recommendations and pertinent geotechnical design parameters for the lateral loading of shafts are presented on Table 1. Appropriate safety factors need to be applied. Additional information regarding this report is discussed in Appendix C.



Mr. Thomas Maglio City of Madison – Dept. of Public Works May 2, 2012 Page 3

Due to the presence of granular soils below the groundwater level in the borings, temporary casing will be required during drilled shaft construction to both control groundwater and prevent collapse of the shaft through the sand strata. If groundwater collects to a depth of more than 2 inches in the base of the shaft, it should be removed before concrete placement. If the use of casing does not effectively control ground water seepage, drilling under slurry conditions and placement of concrete by tremie methods will be required.

Concrete used to construct the drilled shafts should have a minimum slump of 5 to 6 inches. Higher slumps may be used, if desired, but should be achieved in a manner that does not reduce concrete strength. A positive head of concrete should be kept in the casing, if used, to prevent the development of voids in the shafts.

Regarding the potential for construction of a spread footing foundation, we recommend the footings bear below the fill on natural clays or sands encountered at depths of about 9 ft. An allowable design soil bearing pressure of 2000 psf is recommended that assumes a firm and stable subgrade. Note that some undercutting and lean concrete replacement may be needed to develop stability, with evaluation to be made by CGC at the time of excavating. Dewatering using well points will also be needed during construction because of the close proximity of groundwater from existing grade, which in our opinion will likely result in spread footings being impractical.

RECOMMENDED CONSTRUCTION MONITORING

To check that earthwork and foundation construction proceeds in accordance with our recommendations, the following operations should be monitored by CGC:

- Drilling during shaft or footing construction to document that the subsurface conditions are consistent with those anticipated from the borings;
- · Placement of concrete and use of casing/slurry for shafts, if needed; and
- · Concrete evaluation (including test cylinders).

* * * * *

CGC, Inc.

Mr. Thomas Maglio City of Madison – Dept. of Public Works May 2, 2012 Page 4

It has been a pleasure to serve you on this project. We look forward to continuing our project involvement by providing testing services during the construction phase of the project. If you have any questions or need additional consultation, please contact us.

Sincerely,

CGC, Inc.

Michael N. Schultz, P.E.

Principal/Consulting Professional

William W. Wuellner, P.E.

Senior Geotechnical Engineer

Encl: Table 1

- Soil Parameters

Appendix A

- Field Exploration Program

Appendix B

- Soil Boring Location Map

Logs of Test Borings (2)

Log of Test Boring-General Notes Unified Soil Classification System

Appendix C

- Document Qualifications

Table 1
Recommended Soil Parameters for Drilled Shaft Foundations
Tenney Park Light Towers

| | Soil Type A (2) | Soil Type B | Soil Type C |
|------------------------------------|--------------------------------|--------------|------------------|
| | Topsoil, Peat, Natural Very | | |
| Soil Layer | Loose SAND or | Stiff CLAY | Natural Loose to |
| | Loose SAND | (FILL or | Medium Dense |
| | FILL | NATURAL) | SAND/SILT |
| Estimated Soil Parameters | | | |
| Short-term Loading Conditions | | | |
| Angle of internal friction, ϕ | 28 degrees | 0 degrees | 30 degrees |
| Cohesion | 0 lb/sq ft | 500 lb/sq ft | 0 lb/sq ft |
| Long-term Loading Conditions | 0 | | |
| Angle of internal friction, ϕ | 28 degrees | 22 degrees | 30 degrees |
| Cohesion | 0 lb/sq ft | 0 lb/sq ft | 0 lb/sq ft |
| Moist unit weight | 110 lb/cu ft | 120 lb/cu ft | 125 lb/cu ft |
| Submerged unit weight | 48 lb/cu ft | 58 lb/cu ft | 63 lb/cu ft |
| Earth pressure coefficients(1) | | | |
| Active, Ka | 0.36 | 1.00 | 0.32 |
| Passive, Kp | 2.77 | 1.00 | 3.12 |

Notes:

- (1) Does not include a factor of safety (i.e., FS = 1)
- (2) Refer to soil boring logs for additional soil type designations.

APPENDIX A FIELD EXPLORATION PROGRAM

APPENDIX A

FIELD EXPLORATION PROGRAM

Two Standard Penetration Test (SPT) soil borings were drilled to depths of 30 ft below the ground surface at locations selected by others in consultation with CGC. The borings were drilled by J&J Soil Testing (under subcontract to CGC) on April 27, 2012. A truck-mounted drill rig was used. Ground surface elevations were estimated by others and provided to CGC. Boring locations were field staked by J&J staff and approximate locations are presented on the Soil Boring Location Map presented in Appendix B.

Soil samples were obtained at 2.5-ft intervals for a depth of 10 ft and at 5-ft intervals thereafter. The soil samples were obtained in general accordance with specifications for standard penetration testing, ASTM D1586. The specific procedures used for drilling and sampling are described below.

1. <u>Drilling Procedures Between Samples</u>

The borings were extended downward between samples using a roller bit and circulating drilling mud. Hollow stem augers were also used in the upper portions of Boring 1 and Borings 2 and 3.

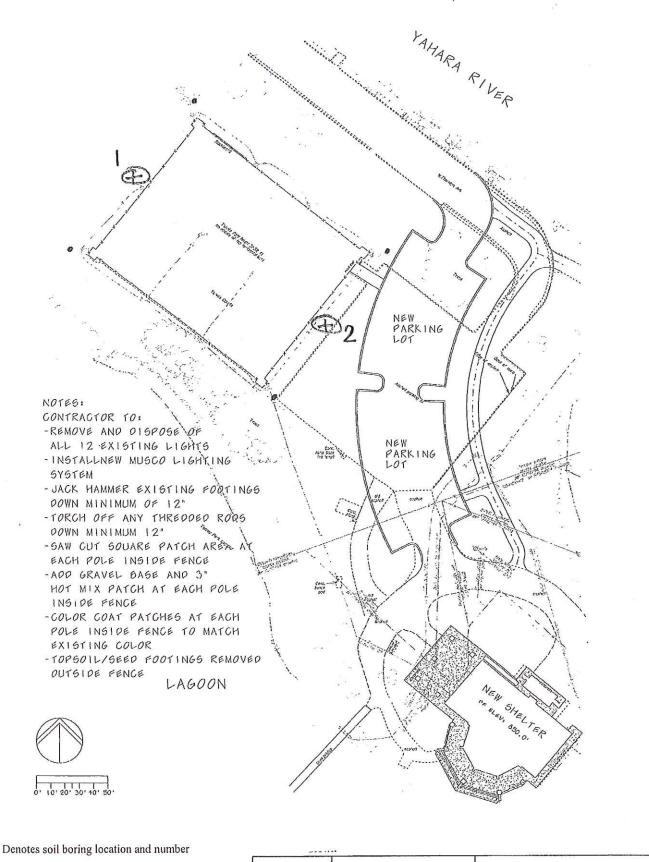
2. <u>Standard Penetration Test and Split-Barrel Sampling of Soils</u> (ASTM Designation: D1586)

This method consists of driving a 2-inch outside diameter split barrel sampler using a 140-pound weight falling freely through a distance of 30 inches. The sampler is first seated 6 inches into the material to be sampled and them driven 12 inches. The number of blows required to drive the sampler the final 12 inches is recorded on the log of borings and is known as the Standard Penetration Resistance.

During the field exploration, the driller visually classified the soil and prepared a field log. Field screening of the samples for possible environmental contaminants was not conducted by J&J as environmental site assessment activities were not part of CGC's work scope. Water level observations were made in the hollow stem auger boring during drilling and are shown at the bottom of each boring log. Upon completion of drilling, the open boreholes were backfilled with bentonite in accordance with WDNR guidelines. The soils were then delivered to our laboratory for visual classification and laboratory testing. The soils were visually classified by a geotechnical engineer using the Unified Soil Classification System. The final logs prepared by the engineer and a description of the Unified Soil Classification System are presented in Appendix B.

APPENDIX B

SOIL BORING LOCATION MAP LOGS OF TEST BORINGS (2) LOG OF TEST BORING-GENERAL NOTES UNIFIED SOIL CLASSIFICATION SYSTEM



Legend

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Notes

- 1. Soil borings conducted by J&J Soil Testing on April 27, 2012
- 2. Base map provided by City of Madison.
- 3. Boring locations are approximate.

Date: 4/30/12 CGC, Inc. Job No. C12075-3

SOIL BORING LOCATION MAP Tenney Park Light Towers Madison, Wisconsin

| 1 |
|-----|
| - A |
| 10. |
| |

LOG OF TEST BORING

Boring No. 1 Project Tenney Park Light Towers Surface Elevation (ft) 849.3± Job No. C12075-3 Location Madison, Wisconsin Sheet 1 of 1

Hammer

(608) 288-4100, FAX (608) 288-7887 2921 Perry Street, Madison, WI 53713 SOIL PROPERTIES SAMPLE VISUAL CLASSIFICATION Depth and Remarks Red (qa) Moist No. (ft) (tsf) 18 in. Black Clayey TOPSOIL FILL (OL) 1 15 M FILL: Loose, Brown/Dark Gray Fine to Medium Sand, Some Silt, Scattered Shells and Organics (A) Loose, Black Sedimentary PEAT, Little Sand (PT) 18 M/W 2 11.4 53.4 Loose, Gray Fine to Medium SAND, Little Silt and Shell Fragments (SP-SM) 3 18 M/W 15 Medium Dense, Gray Fine to Medium SAND, Trace to Little Silt, Scattered Clay Seams (SP/SP-SM) 4 18 W 24 Medium Dense, Gray SILT to Sandy SILT, (C) Scattered Sand Seams/Layers (ML) W 21 5 18 19 18 6 Medium Dense, Gray Laminated SILT (ML) and Lean CLAY (CL) with Occasional Thin Sand 18 M/W Seams (SP-SM) 18 M/W 17 (2.0-2.5)End Boring at 30 ft Borehole Backfilled with Bentonite Chips GENERAL NOTES WATER LEVEL OBSERVATIONS 4/27/12 End 4/27/12 Upon Completion of Drilling 4.5' While Drilling Driller J&J Chief JP Rig CME-45 Time After Drilling Logger JP Editor DAS Depth to Water Drill Method 2 1/4" HSA; Cathead Rope Depth to Cave in The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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LOG OF TEST BORING

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887 SOIL PROPERTIES SAMPLE VISUAL CLASSIFICATION Depth and Remarks Red (qa) Moist (ft) (tsf) 17 in. Dark Brown Clayey TOPSOIL FILL (OL)(A) 8 1 12 M FILL: Stiff, Brown Lean Clay, Intermixed with (1.25)Sand and Topsoil/Peat Zones Very Loose, Gray Fine to Medium SAND, Little 2 2 18 M/W 126.4 13.4 Silt and Shells, Scattered Peat Seams/Layers (SP-SM) 3 12 3 28.2 3.6 Medium Dense, Gray Sandy SILT (ML) (C) 19 4 14 W Medium Dense, Gray Fine to Medium SAND, 18 15 Trace to Little Silt, Scattered Clay Seams (SP/SP-SM) Loose to Medium Dense, Gray SILT to Sandy 10 6 18 W SILT, Scattered Sand Seams/Layers (ML) (C) Stiff, Gray Lean CLAY, Trace Sand, Scattered Sand Seams (CL) 18 M/W 10 7 (1.5-2.0)Loose, Gray Fine to Medium SAND, Some Silt, 8 18 Little Gravel (SM) Loose to Medium Dense, Brown Silty Fine to Medium SAND to Sandy SILT, Little Clay and Gravel (SM/ML) 14 End Boring at 30 ft Borehole Backfilled with Bentonite Chips **GENERAL NOTES** WATER LEVEL OBSERVATIONS Start 4/27/12 End 4/27/12
Driller J&J Chief JP Rig CME-45
Logger JP Editor DAS
Drill Method 2 1/4" HSA; Cathead Rope Upon Completion of Drilling While Drilling Time After Drilling Depth to Water Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

CGC, Inc.

LOG OF TEST BORING General Notes

Descriptive Soil Classification

GRAIN SIZE TERMINOLOGY

| Soll Fraction | Particle Size | U.S. Standard Sieve Size |
|----------------|-----------------------------|--------------------------|
| Boulders | Larger than 12 ¹ | Larger than 12" |
| Copples | 3" to 12" | 3" to 12" |
| Gravel: Coarse | 3/4" to 3" | 3/4" to 3" |
| Fine | 4.76 mm to 3/4" | #4 to 3/4" |
| Sand: Coarse | 2.00 mm to 4.76 mm | #10 to #4 |
| Medium | 0.42 to mm to 2.00 mm | #40 to #10 |
| Fine | 0.074 mm to 0.42 mm | #200 to #40 |
| Silt | 0.005 mm to 0.074 mm | Smaller than #200 |
| Clay | Smaller than 0.005 mm | Smaller than #200 |

Plasticity characteristics differentiate between silt and clay.

GENERAL TERMINOLOGY

RELATIVE DENSITY

| Physical Characteristics | Term | "N" Value |
|--|--------------|-----------|
| Color, moisture, grain shape, fineness, etc. | Very Loose | 0-4 |
| Major Constituents | Loose | 4-10 |
| Clay, silt, sand, gravel | Medlum Dense | 10-30 |
| Structure | Dense | |
| Laminated, varved, fibrous, stratified, cemented, fissured, etc. | Very Dense | Over 50 |
| Geologic Origin | | |
| Glacial, alluvial, eolian, residual, etc. | | |
| | | |

RELATIVE PROPORTIONS OF OF COHESIONLESS SOILS

CONSISTENCY

| Proportional | Defining Range by | Term | q _u -tons/sq. ft. |
|--------------|----------------------|------------|------------------------------|
| Term | Percentage of Weight | Very Soft | 0.0 to 0.25 |
| | | Soft | 0.25 to 0.50 |
| Trace | 0%-5% | Medium | 0.50 to 1.0 |
| Little | 5%-12% | Stiff | 1.0 to 2.0 |
| | 12%-35% | Very Stiff | 2.0 to 4.0 |
| And | | | Over 4.0 |

ORGANIC CONTENT BY COMBUSTION METHOD

PLASTICITY

| Soil Description | Loss on Ignition | Term | Plastic Index |
|----------------------|------------------|----------------|---------------|
| Non Organic | Less than 4% | None to Slight | 0-4 |
| Organic Sitt/Clay | 4-12% | | 5-7 |
| Sedimentary Peat | 12-50% | | 8-22 |
| Fibrous and Woody Pe | at More than 50% | | gh Over 22 |

The penetration resistance, N, is the summation of the number of blows required to effect two successive 6" penetrations of the 2" split-barrel sampler. The sampler is driven with a 140 lb. weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test.

SYMBOLS

DRILLING AND SAMPLING

CS-Continuous Sampling

RC-Rock Coring: Size AW, BW, NW, 2"W

RQD-Rock Quality Designator

RB-Rock Bit

FT-Fish Tail

DC-Drove Casing

C-Casing: Size 2 1/2", NW, 4", HW

CW-Clear Water

DM-Drilling Mud

HSA-Hollow Stem Auger

FA-Flight Auger

HA-Hand Auger

COA-Clean-Out Auger

SS-2" Diameter Split-Barrel Sample

2ST-2" Diameter Thin-Walled Tube Sample

3ST-3" Diameter Thin-Walled Tube Sample

PT--3" Diameter Piston Tube Sample

AS-Auger Sample

WS-Wash Sample

PTS-Peat Sample

PS-Pitcher Sample

NR--No Recovery

S-Sounding

PMT-Borehole Pressuremeter Test

VS-Vane Shear Test

WPT-Water Pressure Test

LABORATORY TESTS

qa-Penetrometer Reading, tons/sq. ft.

qu-Unconfined Strength, tons/sq. ft.

W-Moisture Content, %

LL-Liquid Limit, %

PL-Plastic Limit, %

SL-Shrinkage Limit, %

LI-Loss on Ignition, %

D-Dry Unit Weight, Ibs/cu. ft.

pH-Measure of Soil Alkalinity or Acidity

FS-Free Swell, %

WATER LEVEL MEASUREMENT

∇ --Water Level at time shown NW--No Water Encountered

WD-While Drilling

BCR-Before Casing Removal

ACR-After Casing Removal

CW-Caved and Wet

CM--Caved and Moist

Note: Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils.

CGC, Inc.

Madison - Milwaukee

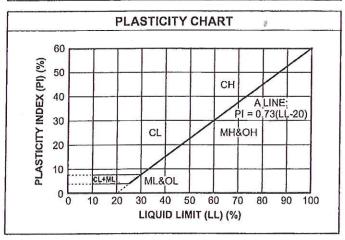
UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.) Clean Gravels (Less than 5% fines) Well-graded gravels, gravel-sand GW mixtures, little or no fines **GRAVELS** Poorly-graded gravels, gravel-sand More than 50% GP mixtures, little or no fines of coarse fraction larger Gravels with fines (More than 12% fines) than No. 4 sieve size GM Silty gravels, gravel-sand-silt mixtures Clayey gravels, gravel-sand-clay GC mixtures Clean Sands (Less than 5% fines) Well-graded sands, gravelly sands, SW little or no fines SANDS Poorly graded sands, gravelly sands, 50% or more SP little or no fines of coarse fraction smaller Sands with fines (More than 12% fines) than No. 4 sieve size SM Silty sands, sand-silt mixtures SC Clayey sands, sand-clay mixtures FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.) Inorganic silts and very fine sands, rock ML flour, silty of clayey fine sands or clayey SILTS silts with slight plasticity AND Inorganic clays of low to medium CLAYS plasticity, gravelly clays, sandy clays, CL Liquid limit silty clays, lean clays less than 50% Organic silts and organic silty clays of OL low plasticity Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, MH SILTS elastic silts AND CLAYS Inorganic clays of high plasticity, fat CH Liquid limit clays 50% or greater Organic clays of medium to high OH plasticity, organic silts HIGHLY PT Peat and other highly organic soils ORGANIC SOILS

| LABORATORY CLASSIFICATION CRITERIA | | | |
|------------------------------------|---|--|--|
| | | | |
| GW | $C_u = \frac{D_{60}}{D_{10}}$ greater than | 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3 | |
| GP | Not meeting all gradation re | equirements for GW | |
| GM | Atterberg limits below "A" line or P.I. less than 4 | Above "A" line with P.I. between 4 and 7 are borderline cases | |
| GC | Atterberg limits above "A" line with P.I. greater than 7 | requiring use of dual symbols | |
| sw | $C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3 | | |
| SP | Not meeting all gradation re | equirements for GW | |
| SM | Atterberg limits below "A" line or P.I. less than 4 | Limits plotting in shaded zone with P.I. between 4 and 7 are | |
| sc | Atterberg limits above "A" line with P.I. greater than 7 | borderline cases requiring use of dual symbols. | |

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 percent _______ GW, GP, SW, SP More than 12 percent _______ GM, GC, SM, SC 5 to 12 percent _______ Borderline cases requiring dual symbols



APPENDIX C

DOCUMENT QUALIFICATIONS

APPENDIX C DOCUMENT QUALIFICATIONS

I. GENERAL RECOMMENDATIONS/LIMITATIONS

CGC, Inc. should be provided the opportunity for a general review of the final design and specifications to confirm that earthwork and foundation requirements have been properly interpreted in the design and specifications. CGC should be retained to provide soil engineering services during excavation and subgrade preparation. This will allow us to observe that construction proceeds in compliance with the design concepts, specifications and recommendations, and also will allow design changes to be made in the event that subsurface conditions differ from those anticipated prior to the start of construction. CGC does not assume responsibility for compliance with the recommendations in this report unless we are retained to provide construction testing and observation services.

This report has been prepared in accordance with generally accepted soil and foundation engineering practices and no other warranties are expressed or implied. The opinions and recommendations submitted in this report are based on interpretation of the subsurface information revealed by the test borings indicated on the location plan. The report does not reflect potential variations in subsurface conditions between or beyond these borings. Therefore, variations in soil conditions can be expected between the boring locations and fluctuations of groundwater levels may occur with time. The nature and extent of the variations may not become evident until construction.

II. IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL ENGINEERING REPORT

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared solely for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. And no one - not even you - should apply the report for any purpose or project except the one originally contemplated.

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A GEOTECHNICAL ENGINEERING REPORT IS BASED ON A UNIQUE SET OF PROJECT-SPECIFIC FACTORS

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- · not prepared for you,
- · not prepared for your project,
- · not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or project ownership.

As a general rule, , always inform your geotechnical engineer of project changes - even minor ones - and request an assessment of their impact. CGC cannot accept responsibility or liability for problems that occur because our reports do not consider developments of which we were not Informed.

SUBSURFACE CONDITIONS CAN CHANGE

A geotechnical engineering report is based on conditions that existed at the time the study was performed. Do not rely on a geotechnical engineering report whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. Always contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

MOST GEOTECHNICAL FINDINGS ARE PROFESSIONAL OPINION

Site exploration identifies subsurface conditions only at those points where surface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgement to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ - sometimes significantly - from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A REPORT'S RECOMMENDATIONS ARE NOT FINAL

Do not over-rely on the construction recommendations included in your report. Those recommendations are not final, because geotechnical engineers develop them principally from judgement and opinion, geotechnical engineers can finalize their recommendations only by observing actual subsurface conditions revealed during construction. CGC cannot assume responsibility or liability for the report's recommendations if we do not perform construction observation.

A GEOTECHNICAL ENGINEERING REPORT IS SUBJECT TO MISINTERPRETATION

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having CGC participate in prebid and preconstruction conferences, and by providing construction observation.

DO NOT REDRAW THE ENGINEER'S LOGS

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should never be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, but recognize that separating logs from the report can elevate risk.

GIVE CONTRACTORS A COMPLETE REPORT AND GUIDANCE

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, but preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. Be sure contractors have sufficient time to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

READ RESPONSIBILITY PROVISIONS CLOSELY

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce such risks, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes

labeled "limitations," many of these provisions indicate where geotechnical engineer's responsibilities begin and end, to help others recognize their own responsibilities and risks. Read these provisions closely. Ask questions. Your geotechnical engineer should respond fully and frankly.

GEOENVIRONMENTAL CONCERNS ARE NOT COVERED

The equipment, techniques, and personnel used to perform a geoenvironmental study differ significantly from those used to perform a geotechnical study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Unanticipated environmental problems have led to numerous project failures. If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. Do not rely on an environmental report prepared for someone else.

OBTAIN PROFESSIONAL ASSISTANCE TO DEAL WITH MOLD

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the express purpose of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.

RELY ON YOUR GEOTECHNICAL ENGINEER FOR ADDITIONAL ASSISTANCE

Membership in ASFE exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with CGC, a member of ASFE, for more information.

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ASFE/The Best People on Earth 881 Colesville Road, Suite G 106 Silver Spring, MD 20910

SECTION E: PROPOSAL

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

| 1. | The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2012 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. |
|----------|--|
| 2. | through issued thereto, at the prices for said work as contained in this proposal. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract. |
| 3. | The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise. |
| 4. | Accompanying this Proposal is Bid Bond or Certified Check in the amount of Dollars (\$ |
| 5. | I hereby certify that all statements herein are made on behalf of |
| SIGNAT | URE |
| TITLE, I | FANY |
| Sworn | and subscribed to before me this day of, 20 |
| My Co | y Public or other officer authorized to administer oaths) ommission Expires s shall not add any conditions or qualifying statements to this Proposal. |

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

State of Wisconsin Department of Workforce Development Equal Rights Division Labor Standards Bureau

Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(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.

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency or local governmental unit, on a project subject to Section 66.0903 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency or local governmental unit 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), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency or local governmental unit 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 hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

| Other Const | ruction Busir | ness | | |
|---|---------------|----------------------------|----------|------------|
| Name of Business | | | | |
| Street Address or P O Box | | City | State | Zip Code |
| Name of Business | | 16 | | |
| Street Address or P O Box | l l | City | State | Zip Code |
| Name of Business | | | | 1 |
| Street Address or P O Box | | City | State | Zip Code |
| I hereby state under penalty of perjury that the info | rmation, cont | ained in this document, is | true and | d accurate |
| 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) 266-0028

ERD-7777-E (R. 09/2003)

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

Best Value Contracting

| 1. | The Contractor shall indicate the non-apprenticeable trades used on this contract. | | |
|---------------------------|--|---|--|
| | | 8 | |
| | 2 | · · · · · · · · · · · · · · · · · · · | |
| | | | |
| | | | |
| | <u> </u> | | |
| | - | e | |
| 2. | | ontractors are exempt due to the size of the work force. Apprenticeable trades are those insidered apprenticeable by the State of Wisconsin. | |
| | a | Check Here if the Contractor has a total skilled work force of four or less individuals in apprenticeable trades combined. This contractor is exempt from Best Value Contracting. | |
| 3. | Contract | tractor shall indicate on page E-4 which apprenticeable trades are to be used on this and shall indicate by checking the appropriate box for the trades used, how the or will comply with Madison General Ordinance 33.07(7). | |
| | | Legend | |
| Numbe Journey W-ATT | yworkers | The Contractor shall indicated for trades to be used on this Contract only, the number of journeyworkers that the Contractor has employed company wide. The Contractor is an active trade trainer in the State of Wisconsin for the trade indicated. | |
| US-AT | Τ | The Contractor is an active trade trainer in an apprenticeship program approved by the U.S. Department of Labor or another state apprenticeship agency in the trade indicated. | |
| SB-AT | Т | The Contractor shall become an active trade trainer prior to beginning work on the Contract in the trade indicated. | |
| | The Con this proje | tractor has reviewed the list on page E-4 and shall not use any apprenticeable trades on ect. | |
| | | ntractor has reviewed this list on E-4 and has checked the appropriate box by each ceable trade to be used on the project. | |

06/13/12-6901SPECS.doc E-3

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

Apprenticeable Trades

Check the box in the column "Trade Used on This Project" for each apprenticeable trades used on this project. For those trades used on the project indicated the number of journeyworkers that are employed company wide and check a box to the right of the trade as to how the Contractor will comply MGO 33.07(7). Refer to the legend on page E-3 for the meaning associated with each heading. The Contractor must check one of the boxes on the right for each apprenticeable trade used and checked on the left.

| Trade | 8 | 947 | | | |
|------------------|---|-----------------------------|---------|--------------|--------|
| Used on Contract | Apprenticeable Trades | Number of Journeyworkers | W-ATT | US-ATT | SB-ATT |
| Contract | | Journeyworkers | VV-7A11 | П П | D-711 |
| | Bricklayer | | | | |
| | Carpenter | | | | |
| | Cement Mason / Concrete Finisher | | | ⊢⊢ | |
| | Cement Mason (Heavy Highway) | | Ц | <u> </u> | |
| | Construction Craft Laborer | | | | ᆜ |
| | Data Communication Installer | | | | |
| | Electrician | | | | |
| | Environmental Systems Technician / HVAC Service Tech/HVAC Install / Service | | | | |
| | Glazier | | | | |
| | Heavy Equipment Operator / Operating Engineer | | | | |
| | Insulation Worker (Heat & Frost) | £ | | | |
| | Iron Worker | | | | |
| | Iron Worker (Assembler, Metal Bldgs) | | | | |
| | Painter & Decorator | | | | |
| 3. | Plasterer | | | | |
| | Plumber | | | | |
| | Residential Electrician | | | | |
| | Roofer & Waterproofer | | | | |
| | Sheet Metal Worker | | | | |
| | Sprinklerfitter | | | | |
| | Steamfitter | | | | |
| | Steamfitter (Refrigeration) | | | | |
| | Steamfitter (Service) | | | | |
| | Taper & Finisher | | | - V | |
| | Telecommunications (Voice, Data & Video) Installer-Technician | | | | |
| | Tile Setter | | | | |

06/13/12-6901SPECS.doc

| PROPOSAL | |
|--|-----------|
| NAME OF BIDDER | |
| TENNEY PARK TENNIS COURT L | IGHTING |
| CONTRACT NO. 6901 | |
| ACCOUNT NUMBER: CL60-58201-810741-00-0000000-60108C200 | |
| | TOTAL BID |
| 1 TENNEY PARK TENNIS COURT LIGHTING-LUMP SUM BID: | |

SECTION F: BID BOND

| KNOW ALL MEN BY THESE PI | RESENT, THAT | |
|---------------------------------------|---------------------------------------|-------------------------------------|
| (a corporation of the State of | (individual), (partn | ership), hereinafter referred to as |
| | , a corporation of the State of | |
| to as the "Surety") and licensed to | do business in the State of Wisconsin | n, are held and firmly bound unto |
| the City of Madison, (hereinafter | referred to as the "Obligee"), in the | sum of five per cent (5%) of the |
| amount of the total bid or bids of t | he Principal herein accepted by the C | bligee, for the payment of which |
| the Principal and the Surety bin | d themselves, their heirs, executors | , administrators, successors and |
| assigns, jointly and severally, firml | y by these presents. | |

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

- 1. If said bid is rejected by the Obligee, then this obligation shall be void.
- 2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.

signed by their proper officers, on the day and year set forth below. Seal Date Principal By: Name of Surety By: Date This certifies that I have been duly licensed as an agent for the above company in Wisconsin under for the year _____, and appointed as attorney in fact with authority to License No. execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked. Agent Date Address City, State and Zip Code

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees may be rejected if the following instrument is not attached to this bond:

Telephone Number

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.

Certificate of Biennial Bid Bond

| TIME PERIOD - VALID (FROM/TO) | |
|---|---|
| NAME OF SURETY | |
| NAME OF CONTRACTOR | |
| CERTIFICATE HOLDER | |
| | City of Madison, Wisconsin |
| | |
| This is to certify that a biennial bid bo City of Madison. | and issued by the above-named Surety is currently on file with the |
| This certificate is issued as a matter of does not amend, extend or alter the cov | f information and conveys no rights upon the certificate holder and verage of the biennial bid bond. |
| Cancellation: Should the above policy thirty (30) days written notice to the cer | be cancelled before the expiration date, the issuing Surety will give rtificate holder indicated above. |
| φ | |
| -5 | Signature of Authorized Contractor Representative |
| | |
| Ī | Date |

SECTION G: AGREEMENT

| THIS A Twelve Madiso | AGREEMENT made this day of in the year Two Thousand and between hereinafter called the Contractor, and the City of m, Wisconsin, hereinafter called the City. |
|----------------------------|---|
| adopted | EAS, the Common Council of the said City of Madison under the provisions of a resolution , and by virtue of authority vested in the said Council, has d to the Contractor the work of performing certain construction. |
| NOW, follows | THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as: |
| 1. | Scope of Work. The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements: |
| | TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901 |
| 2. | Completion Date/Contract Time. Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion <u>SEE SPECIAL PROVISIONS</u> , the rate of progress and the time of completion being essential conditions of this Agreement. |
| 3. | Contract Price. The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of(\$ |
| 4. | Wage Rates for Employees of Public Works Contractors |
| | General and Authorization. The Contractor shall compensate its employees at the prevailing wage rate in accordance with section 66.0903, Wis. Stats., DWD 290 of the Wisconsin |

"Public Works" shall include building or work involving the erection, construction, remodeling, repairing or demolition of buildings, parking lots, highways, streets, bridges, sidewalks, street lighting, traffic signals, sanitary sewers, water mains and appurtenances, storm sewers, and the grading and landscaping of public lands.

"Building or work" includes construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work, except for the delivery of mineral aggregate such as sand, gravel, bituminous asphaltic concrete or stone which is incorporated into the work under contract with the City by depositing the material directly in final place from transporting vehicle.

G-1

Administrative Code and as hereinafter provided.

"Erection, construction, remodeling, repairing" means all types of work done on a particular building or work at the site thereof in the construction or development of the project, including without limitation, erecting, construction, remodeling, repairing, altering, painting, and decorating, the transporting of materials and supplies to or from the building or work done by the employees of the Contractor, Subcontractor, or Agent thereof, and the manufacturing or furnishing of materials, articles, supplies or equipment on the site of the building or work, by persons employed by the Contractor, Subcontractor, or Agent thereof.

"Employees working on the project" means laborers, workers, and mechanics employed directly upon the site of work.

"Laborers, Workers, and Mechanics" include preapprentices, helpers, trainees, learners and properly registered and indentured apprentices but exclude clerical, supervisory, and other personnel not performing manual labor.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate is attached hereto.

Workforce Profile. The Contractor shall, at the time of signature of the contract, notify the City Engineer in writing of the names and classifications of all the employees of the Contractor, Subcontractors, and Agents proposed for the work. In the alternative, the Contractor shall submit in writing the classifications of all the employees of the Contractor, Subcontractors and Agents and the total number of hours estimated in each classification for the work. This workforce profile(s) shall be reviewed by the City Engineer who may, within ten (10) days, object to the workforce profile(s) as not being reflective of that which would be required for the work. The Contractor may request that the workforce profile, or a portion of the workforce profile, be submitted after the signature of the contract but at least ten (10) days prior to the work commencing. Any costs or time loss resulting from modifications to the workforce profile as a result of the City Engineer's objections shall be the responsibility of the Contractor.

Payrolls and Records. The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of all the employees who work on the contract, including the employees of the Contractor's subcontractors and agents. Such weekly payroll records must include the required information for all City contracts and all other contracts on which the employee worked during the week in which the employee worked on the contract. The Contractor shall also keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. The records shall set forth the full weekly wages earned by each employee and the actual hourly wage paid to the employee.

The Contractor shall submit the weekly payroll records, including the records of the Contractor's subcontractors and agents, to the City Engineer for every week that work is being done on the contract. The submittal shall be within twenty-one (21) calendar days of the end of the Contractor's weekly pay period.

06/13/12-6901SPECS.doc G-2

Employees shall receive the full amounts accrued at the time of the payment, computed at rates not less than those stated in the prevailing wage rate and each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to the employee.

An employee's classification shall not be changed to a classification of a lesser rate during the contract. If, during the term of the contract, an employee works in a higher pay classification than the one which was previously properly assigned to the employee, then that employee shall be considered to be in the higher pay classification for the balance of the contract, receive the appropriate higher rate of pay, and she/he shall not receive a lesser rate during the balance of the contract. For purposes of clarification, it is noted that there is a distinct difference between working in a different classification with higher pay and doing work within a classification that has varying rates of pay which are determined by the type of work that is done within the classification. For example, the classification "Operating Engineer" provides for different rates of pay for various classes of work and the Employer shall compensate an employee classified as an "Operating Engineer" based on the highest class of work that is done in one day. Therefore, an "Operating Engineer's" rate may vary on a day to day basis depending on the type of work that is done, but it will never be less than the base rate of an "Operating Engineer". Also, as a matter of clarification, it is recognized that an employee may work in a higher paying classification merely by chance and without prior intention, calculation or design. If such is the case and the performance of the work is truly incidental and the occurrence is infrequent, inconsequential and does not serve to undermine the single classification principle herein, then it may not be required that the employee be considered to be in the higher pay classification and receive the higher rate of pay for the duration of the contract. However, the Contractor is not precluded or prevented from paying the higher rate for the limited time that an employee performs work that is outside of the employee's proper classification.

Questions regarding an employee's classification, rate of pay or rate of pay within a classification, shall be resolved by reference to the established practice that predominates in the industry and on which the trade or occupation rate/classification is based. Rate of pay and classification disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determination by appropriate recognized trade unions operating within the City of Madison.

The Contractor, its Subcontractors and Agents shall submit to interrogation regarding compliance with the provisions of this ordinance.

Mulcting of the employees by the Contractor, Subcontractor, and Agents on Public Works contracts, such as by kickbacks or other devices, is prohibited. The normal rate of wage of the employees of the Contractor, Subcontractor, and Agents shall not be reduced or otherwise diminished as a result of payment of the prevailing wage rate on a public works contract.

Hourly contributions. Hourly contributions shall be determined in accordance with the prevailing wage rate and with DWD. 290.01(10), Wis. Admin. Code.

Apprentices and Subjourneypersons. Apprentices and subjourneypersons performing work on the project shall be compensated in accordance with the prevailing wage rate and with DWD 290.02, and 290.025, respectively, Wis. Admin. Code.

Straight Time Wages. The Contractor may pay straight time wages as determined by the prevailing wage rate and DWD 290.04, Wis. Admin. Code.

06/13/12-6901SPECS.doc G-3

Overtime Wages. The Contractor shall pay overtime wages as required by the prevailing wage rate and DWD 290.05, Wis. Admin. Code.

Posting of Wage Rates and Hours. A clearly legible copy of the prevailing wage rate, together with the provisions of Sec. 66.0903(10)(a) and (11)(a), Wis. Stats., shall be kept posted in at least one conspicuous and easily accessible place at the project site by the Contractor and such notice shall remain posted during the full time any laborers, workers or mechanics are employed on the contract.

Evidence of Compliance by Contractor. Upon completion of the contract, the Contractor shall file with the Department of Public Works an affidavit stating:

- a. That the Contractor has complied fully with the provisions and requirements of Sec. 66.0903(3), Wis. Stats., and Chapter DWD 290, Wis. Admin. Code; the Contractor has received evidence of compliance from each of the agents and subcontractors; and the names and addresses of all of the subcontractors and agents who worked on the contract.
- b. That full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefor; where these records will be kept and the name, address and telephone number of the person who will be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Evidence of Compliance by Agent and Subcontractor. Each agent and subcontractor shall file with the Contractor, upon completion of their portion of the work on the contract an affidavit stating that all the provisions of Sec. 66.0903(3), Wis. Stats., have been fully complied with and that full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefor; where these records shall be kept and the name, address and telephone number of the person who shall be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Failure to Comply with the Prevailing Wage Rate. If the Contractor fails to comply with the prevailing wage rate, she/he shall be in default on the contract.

5. Affirmative Action. In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex or national original and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Director of Affirmative Action.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

- 1. Cancel, terminate or suspend this Contract in whole or in part.
- 2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.
- 3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or five thousand dollars (\$5,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract.

TENNEY PARK TENNIS COURT LIGHTING CONTRACT NO. 6901

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused these presents to be sealed with its corporate seal and to be subscribed by its Mayor and City Clerk the day and year first above written.

| Countersigned: | | | |
|---|------------------|----------------------|-------|
| | | Company Name | * |
| Witness | Date | President | Date |
| Witness | Date | Secretary | Date |
| CITY OF MADISON, WISCONS Provisions have been made to p that will accrue under this contract | ay the liability | Approved as to form: | |
| Finance Director | | City Attorney | |
| Signed this d | lay of | | _, 20 |
| Witness | | Mayor | Date |
| Witness | | City Clerk | Date |

SECTION H: PAYMENT AND PERFORMANCE BOND

| KNOW ALL MEN BY THESE PRESENTS, that w | e |
|--|--|
| Company of a Madison, Wisconsin, in the sum of United States, for the payment of which sum to the respective executors and administrators firmly by the | s surety, are held and firmly bound unto the City of (\$) Dollars, lawful money of the City of Madison, we hereby bind ourselves and our ese presents. |
| | ve bounden shall on his/her part fully and faithfully between him/herself and the City of Madison for the |
| | NIS COURT LIGHTING ST NO. 6901 |
| prosecution of said work, and save the City harmles in the prosecution of said work, and shall save harm | for labor performed and material furnished in the ss from all claims for damages because of negligence mless the said City from all claims for compensation sees and employees of subcontractor, then this Bond is |
| Signed and sealed thisday | of, |
| Countersigned: | Company Name (Principal) |
| Witness | President Seal |
| Secretary | |
| Approved as to form: | Surety Seal Salary Employee Commission |
| City Attorney | ByAttorney-in-Fact |
| | a agent for the above company in Wisconsin under 20, and appointed as attorney-in-fact with cond which power of attorney has not been revoked. |
| Date | Agent |

MINIMUM WAGE SCALE

FOR

PUBLIC WORKS IMPROVEMENTS

APPROVED BY: BOARD OF PUBLIC WORKS

MADISON, WISCONSIN

February 7, 2012

The attached "Prevailing Wage Rate Determination: (Pages 1 through 30), issued February 7, 2012, is hereby approved as the Minimum Wage Scale of the City of Madison.

State of Wisconsin Department of Workforce Development Equal Rights Division

DEPARTMENTAL ORDER

ISSUE DATE: 1/13/2012

PROJECT:

ALL PUBLIC WORKS PROJECTS UNDER SEC 66.0903, STATS.-CITY OF MADISON MADISON CITY, DANE COUNTY, WI Determination No. 201200105

PROJECT OWNER:

ROBERT F. PHILLIPS, CITY ENGINEER
CITY OF MADISON-ENGINEERING
210 MARTIN L KING JR BLVD, RM 115
MADISON, WI 53703

ROBERT F. PHILLIPS, CITY ENGINEER CITY OF MADISON-ENGINEERING 210 MARTIN L KING JR BLVD, RM 115 MADISON, WI 53703

REQUESTER:

ADDITIONAL CONTACT:

NORMAN DAVIS, CONTRACT COMPLIANCE CITY OF MADISON-DEPT OF CIVIL RTS-AA DIV 210 MARTIN L KING JR BLVD, RM 523 MADISON, WI 537033342

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.

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), s. 66.0904(4)(e), or s. 103.49(3)(c), Stats., for a complete explanation of the administrative review process.

Enclosures

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 **FINAL ORDER** of the department unless a timely request for an administrative review is filed with the department.

ISSUED BY:

Equal Rights Division
Labor Standards Bureau
Construction Wage Standards Section
PO Box 8928 Madison, WI 53708-8928
(608)266-6861

Web Site: http://dwd.wisconsin.gov/er/

PREVAILING WAGE RATE DETERMINATION Issued by the State of Wisconsin Department of Workforce Development Pursuant to s. 66.0903, Wis. Stats. Issued On: 1/13/2012

| DETERMINATION NU | MBER: 201200105 |
|------------------|---|
| | Prime Contracts MUST Be Awarded or Negotiated On Or Before |
| EXPIRATION DATE: | 12/31/2012. If NOT, You MUST Reapply. |
| PROJECT NAME: | ALL PUBLIC WORKS PROJECTS UNDER SEC 66.0903, STATSCITY OF MADISON |
| PROJECT LOCATION | : MADISON CITY, DANE COUNTY, WI |
| CONTRACTING AGE | NCY: CITY OF MADISON-ENGINEERING |
| CLASSIFICATION: | 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/prevailing_wage_rate/Dictionary/dictionary_main.htm. |
| OVERTIME: | 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. |
| FUTURE INCREASE: | 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. |
| PREMIUM PAY: | 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, whevenever such pay is applicable. |
| DOT PREMIUM: | 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. |
| APPRENTICES: | Pay apprentices a percentage of the applicable journeyperson'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: | 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
- 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.

BUILDING OR HEAVY CONSTRUCTION

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.

| | SKILLED TRADES | | | |
|------|--|--------------------------------------|------------------------------------|-------------|
| CODE | Fringe Benefits Must Be Pald On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 101 | Acoustic Ceiling Tile Installer | 29.06 | 15.16 | 44.22 |
| 102 | Boilermaker | 31.09 | 23.75 | 54.84 |
| 103 | Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$.50/hr on 6/1/2012; Add \$.80 on 6/1/2013 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksglving Day & Christmas Day. | 32.26 | 16.60 | 48.86 |
| 104 | Cabinet Installer | 29.06 | 15.16 | 44.22 |
| 105 | Carpenter | 29.06 | 15.16 | 44.22 |
| 106 | Carpet Layer or Soft Floor Coverer | 29.06 | 15.16 | 44.22 |
| 107 | Cement Finisher | 32.03 | 15.13 | 47.16 |
| 108 | Drywall Taper or Finisher | 26.10 | 13.65 | 39.75 |
| 109 | Electrician Future Increase(s): Add \$.50/hr on 6/1/2012. 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. | 32.55 | 18.68 | 51.23 |
| 110 | Elevator Constructor | 43.79 | 25.48 | 69.27 |
| 111 | Fence Erector | 25.50 | 0.26 | 25.76 |
| 112 | Fire Sprinkler Fitter | 36.39 | 16.75 | 53.14 |
| 113 | Glazier | 36.23 | 11.22 | 47.45 |
| 114 | Heat or Frost Insulator | 33.28 | 22.51 | 55.79 |
| 115 | Insulator (Batt or Blown) | 23.62 | 11.55 | 35.17 |
| 116 | Ironworker | 30.90 | 19.11 | 50.01 |
| 117 | Lather | 29.06 | 15.16 | 44.22 |

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
|------|---|--------------------------------------|------------------------------------|-------|
| 118 | Line Constructor (Electrical) | 35.97 | 18.08 | 54.05 |
| 119 | Marble Finisher | 31.16 | 16.27 | 47.43 |
| 120 | Marble Mason | 32.66 | 16.20 | 48.86 |
| 121 | Metal Building Erector | 22.00 | 4.11 | 26.11 |
| 122 | Millwright | 30.66 | 15.21 | 45.87 |
| 123 | Overhead Door Installer | 18.00 | 4.86 | 22.86 |
| 124 | Painter | 25.65 | 14.11 | 39.76 |
| 125 | Pavement Marking Operator | 26.00 | 0.00 | 26.00 |
| 126 | Piledriver | 29.56 | 15.16 | 44.72 |
| 127 | Pipeline Fuser or Welder (Gas or Utility) | 29.54 | 18.84 | 48.38 |
| 129 | Plasterer | 29.03 | 15.16 | 44.19 |
| 130 | Plumber | 36.20 | 15.02 | 51.22 |
| 132 | Refrigeration Mechanic Future Increase(s): Add \$.85/hr on 12/1/11; Add \$.90/hr on 6/1/12; Add \$.85/hr on 12/1/12. | 40.35 | 16.21 | 56.56 |
| 133 | Roofer or Waterproofer | 28.06 | 0.00 | 28.06 |
| 134 | Sheet Metal Worker | 34.23 | 20.19 | 54.42 |
| 135 | Steamfitter Future Increase(s): Add \$.85/hr on 12/1/11; Add \$.90/hr on 6/1/12; Add \$.85/hr on 12/1/12. | 40.35 | 16.21 | 56.56 |
| 137 | Teledata Technician or Installer | 21.26 | 6.99 | 28.25 |
| 138 | Temperature Control Installer | 32.55 | 18.68 | 51.23 |
| 139 | Terrazzo Finisher | 18.00 | 5.35 | 23.35 |
| 140 | Terrazzo Mechanic | 31.16 | 16.27 | 47.43 |
| 141 | Tile Finisher Future Increase(s): Add \$.50/hr on 6/1/2012; Add \$.80/hr on 6/1/2013. | 23.77 | 16.00 | 39.77 |
| 142 | Tile Setter Future Increase(s): Add \$.50/hr on 6/1/2012; Add \$.80/hr on 6/1/2013. | 29.71 | 16.00 | 45.71 |
| 143 | Tuckpointer, Caulker or Cleaner | 22.00 | 9.75 | 31.75 |
| 144 | Underwater Diver (Except on Great Lakes) | 36.20 | 18.81 | 55.01 |
| 146 | Well Driller or Pump Installer | 25.32 | 15.30 | 40.62 |

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| Determination I | No. 201200105 |
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| Determ | lination No. 201200105 | | | rage 5 01 5 |
|--------|--|--------------------------------------|------------------------------------|-------------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
| OODL | TRABE ON OCCUPATION | \$ | \$ | \$ |
| 147 | Siding Installer . | 16.74 | 2.58 | 19.32 |
| 150 | Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 32.37 | 16.48 | 48.85 |
| 151 | Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY | 28.78 | 15.16 | 43.94 |
| 152 | Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 17.80 | 9.00 | 26.80 |
| 153 | Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 23.38 | 12.48 | 35.86 |
| 154 | Groundman - ELECTRICAL LINE CONSTRUCTION ONLY | 21.30 | 10.97 | 32.27 |
| | TRUCK DRIVERS | | ** | |
| e | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked | HOURLY | HOURLY | |
| CODE | TRADE OR OCCUPATION | BASIC RATE OF PAY \$ | FRINGE BENEFITS \$ | TOTAL \$ |
| 201 | Single Axle or Two Axle | 18.00 | 6.98 | 24.98 |
| 203 | Three or More Axle Future Increase(s): Add \$1.57/hr on 6/1/2012. | 18.00 | 13.83 | 31.83 |
| 204 | Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | 31.89 | 17.98 | 49.87 |
| 205 | Pavement Marking Vehicle | 19.25 | 10.84 | 30.09 |
| 207 | Truck Mechanic | 18.00 | 13.68 | 31.68 |
| | LABORERS | | | |
| | The state of the s | HOURLY | HOURLY | |
| CODE | Fringe Benefits Must Be Pald On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 301 | General Laborer Future Increase(s): Add \$.50/hr. on 06/04/2012; Add \$.75/hr. on 06/03/2013 Premium Increase(s): Add \$1.00/hr for certified welder; Add \$.25/hr for mason tender | 24.14 | 13.45 | 37.59 |
| 302 | Asbestos Abatement Worker | 23.96 | 12.88 | 36.84 |
| 303 | Landscaper | 17.00 | 6.36 | 23.36 |
| 310 | Gas or Utility Pipeline Laborer (Other Than Sewer and Water) | 20.39 | 12.20 | 32.59 |
| 311 | Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 16.51 | 0.00 | 16.51 |
| 314 | Railroad Track Laborer | 14.00 | 4.77 | 18.77 |
| | | | | |

HEAVY EQUIPMENT OPERATORS SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY

| | | | | • , |
|------|--|--------------------------------------|---|-------------|
| CODE | Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE <u>BENEFITS</u> \$ | TOTAL \$ |
| 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | ; | 17.98 | 50.40 |
| 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). | 31.89 | 14.44 | 46.33 |
| 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | 31.89 | 17.98 | 49.87 |
| 504 | Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer. | 36.20 | 18.81 | 55.01 |
| 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. Premium Increase(s): Add \$.50/hr for friction crane, lattice boom or crane certification (CCO). | 37.45 | 19.45 | 56.90 |

| | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked | HOURLY BASIC RATE | HOURLY FRINGE | |
|------|--|----------------------|------------------|-------------|
| ODE | TRADE OR OCCUPATION | OF PAY \$ | BENEFITS \$ | TOTAL \$ |
| 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. | 26.80 | 18.52 | 45.32 |
| 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. | 27.75 | 19.15 | 46.90 |
| | HEAVY EQUIPMENT OPERATORS EXCLUDING SITE PREPARATION, UTILITY, PAVING LA | ANDSCAPING W | /ORK | |
| | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked | HOURLY BASIC RATE | HOURLY FRINGE | |
| CODE | TRADE OR OCCUPATION | OF PAY \$ | BENEFITS \$ | TOTAL \$ |
| 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.50/hr at 200 ton: Add \$1.00/hr, at 300 ton; Add | 34.62 | 17.98 | 52.60 |
| 509 | \$1.50/hr at 400 ton; Add \$2.00/hr at 500 ton. Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Calsson 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.25/hr for cranes with lifting capacity of 45 ton or over. | 33,62 | 17.98 | 51.60 |
| 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | | 17.98 | 50,40 |

| | Fringe Benefits Must Be Paid On All Hours Worked | HOURLY BASIC RATE | HOURLY FRINGE | TOTAL |
|------|---|----------------------|------------------|-------------|
| CODE | TRADE OR OCCUPATION | OF PAY \$ | BENEFITS \$ | TOTAL \$ |
| 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); Manholst; Material or Stack Hoist; Mechanic or Welder; Rallroad 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | 31,89 | 17.98 | 49.87 |
| 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 Finlshing 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; 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; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames. | 35.59 | 19.10 | 54.69 |
| 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; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | 29.19 | 17.98 | 47.17 |
| 514 | Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$2/hr. on 1/1/2013. | 34.89 | 19.68 | 54.57 |
| 515 | Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). | 30.32 | 17.40 | 47.72 |
| | | | | |

SEWER, WATER OR TUNNEL CONSTRUCTION

Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

| | SKILLED TRADES | | | |
|------|---|--------------------------------------|------------------------------------|-------------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 103 | Bricklayer, Blocklayer or Stonemason | 32.66 | 16.20 | 48.86 |
| 105 | Carpenter 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. | 33,43 | 19.31 | 52.74 |
| 107 | Cement Finisher Future Increase(s): Add \$1.86 on 6/1/12; Add \$1.87 on 6/1/13; 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. | 30.68 | 15.68 | 46.36 |
| 109 | Electrician Future Increase(s): Add \$1.40/hr on 6/1/2012. Add \$1.60/hr on 6/1/2013. 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. | 31.54 | 20.95 | 52.49 |
| 111 | Fence Erector | 25.50 | 0.26 | 25.76 |
| 116 | Ironworker 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. | 31.31 | 22.22 | 53.53 |
| 118 | Line Constructor (Electrical) | 35.97 | 18.08 | 54.05 |
| 125 | Pavement Marking Operator | 26.00 | 0.00 | 26.00 |
| 126 | Piledriver | 29.56 | 15.16 | 44.72 |
| 130 | Plumber | 36.20 | 15.02 | 51.22 |
| 135 | Steamfitter | 39.90 | 15.76 | 55.66 |
| 137 | Teledata Technician or Installer | 21.26 | 6.99 | 28.25 |
| | | | | |

| Determination | No | 201200105 |
|---------------|------|-----------|
| Determination | IVU. | 201200100 |

| Determ | ination No. 201200105 | | <u>_</u> | age 10 or |
|-------------|--|--------------------------------------|------------------------------------|-------------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 143 | Tuckpointer, Caulker or Cleaner | 22.00 | 9.75 | 31.75 |
| 144 | Underwater Diver (Except on Great Lakes) | 36.20 | 18.81 | 55.01 |
| 146 | Well Driller or Pump Installer | 24.22 | 14.80 | 39.02 |
| 150 | Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 32.37 | 16.48 | 48.85 |
| 151 | Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY | 28.78 | 15.16 | 43.94 |
| 152 | Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 17.80 | 9.00 | 26.80 |
| 153 | Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 23.38 | 12.48 | 35.86 |
| 154 | Groundman - ELECTRICAL LINE CONSTRUCTION ONLY | 21.30 | 10.97 | 32.27 |
| | TRUCK DRIVERS | | | |
| <u>CODE</u> | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 201 | Single Axle or Two Axle | 23.00 | 8.64 | 31.64 |
| 203 | Three or More Axle | 21.17 | 9.51 | 30.68 |
| 204 | Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.75/hr on 6/1/2012; Add \$1.85/hr on 6/1/2013. 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. | 22.50 | 16.19 | 38.69 |
| 205 | Pavement Marking Vehicle | 19.25 | 10.84 | 30.09 |
| 207 | Truck Mechanic | 21.17 | 9.51 | 30.68 |
| | LABORERS | | | |
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 301 | General Laborer Future Increase(s): Add \$.70/hr. on 06/04/2012; Add \$.80/hr. on 06/03/2013 Premium Increase(s): | 25.28 | 13.44 | 38.72 |

remium Increase(s):
Add \$.20 for blaster, bracer, manhole builder, caulker,
bottomman and power tool; Add \$.55 for pipelayer; Add
\$1.00 for tunnel work 0-15 lbs. compressed air; Add
\$2.00 for over 15-30 lbs. compressed air; Add \$3.00 for
over 30 lbs. compressed air.

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
|------|---|--------------------------------------|------------------------------------|-------------|
| 303 | Landscaper | 17.00 | 6.36 | 23.36 |
| 304 | Flagperson or Traffic Control Person | 12.00 | 17.89 | 29.89 |
| 311 | Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 16.51 | 0.00 | 16.51 |
| 314 | Railroad Track Laborer | 14.00 | 4.77 | 18.77 |
| Ē 52 | HEAVY EQUIPMENT OPERATORS SEWER, WATER OR TUNNEL WOR | К | | |
| CODE | Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 521 | Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Calsson 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.25/hr for cranes with lifting capacity of 45 ton or over. | 33.62 | 17.98 | 51.60 |
| 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; Skick Rig; Telehandler; Traveling Crane (Bridge Type). Future Increase(s): Add \$1/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | | 17.98 | 50.40 |

| | Fringe Benefits Must Be Paid On All Hours Worked | HOURLY BASIC RATE | HOURLY FRINGE | |
|------|--|----------------------|------------------|-------------|
| CODE | TRADE OR OCCUPATION | OF PAY \$ | BENEFITS \$ | TOTAL \$ |
| 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 (Rotect Pump), Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotect Pump), Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotect Pump), Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotect Pump), | 31,89 | 17.98 | 49.87 |
| | or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manholst; Material or Stack Holst; 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/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | · · |)1 | |
| 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 | 30.89 | 17.16 | 48.05 |
| | 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 Chair Type Having 8-Inch Bucket & Under); Winches & A-Frames. |] s | | ч |
| 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 | 29.19 | 17.98 | 47.17 |
| | 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. Future Increase(s): Add \$1/hr on 6/3/2012; Add \$1/hr on 6/2/2013. |) | | |
| 526 | Boiler (Temporary Heat); Forklift; Greaser; Oller. | 29.19 | 17.96 | 47.15 |
| 527 | Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer. | 36.20 | 18.81 | 55.01 |
| 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. | 36.20 | 18.81 | 55.01 |

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
|------|---|--------------------------------------|------------------------------------|-------------|
| 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. | 26.80 | 18.52 | 45.32 |
| 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. | | 18.52 | 45.32 |

AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION

Includes all airport projects (excluding buildings) and all projects awarded by the Wisconsin Department of Transportation (excluding buildings).

| | SKILLED TRADES | | | 77.1 |
|------|---|--------------------------------------|------------------------------|-------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS | TOTAL |
| 103 | Bricklayer, Blocklayer or Stonemason | 32.66 | 15.92 | 48.58 |
| 105 | Carpenter | 30.23 | 15.16 | 45.39 |
| 107 | Cement Finisher Future Increase(s): Add \$1.86 on 6/1/12; Add \$1.87 on 6/1/13; 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, Thanksglving 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. | 30.68 | 15.68 | 46.36 |
| 109 | Electrician | 37.25 | 14.68 | 51.93 |
| 111 | Fence Erector | 35.62 | . 0.00 | 35.62 |
| 116 | Ironworker | 30.90 | 19.11 | 50.01 |
| 118 | Line Constructor (Electrical) | 35.97 | 18.08 | 54.05 |
| 124 | Painter | 28.00 | 11.15 | 39.15 |
| 125 | Pavement Marking Operator | 26.65 | 14.92 | 41.57 |
| 126 | Piledriver | 29.56 | 15.16 | 44:72 |
| 133 | Roofer or Waterproofer | 28.06 | 0.00 | 28.06 |
| 137 | Teledata Technician or Installer | 21.26 | 6.99 | 28.25 |
| 143 | Tuckpointer, Caulker or Cleaner | 22.00 | 9.75 | 31.75 |
| 144 | Underwater Diver (Except on Great Lakes) | 36.20 | 18.81 | 55.01 |
| 150 | Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 35.42 | 12.90 | 48.32 |
| 151 | Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY | 35.50 | 14.27 | 49.77 |
| 152 | Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 25.18 | 14.07 | 39.25 |
| 153 | Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 23.38 | 12.48 | 35.86 |

| Determ | ination No. 201200105 | | * V | Page 15 of 30 |
|--------|---|--------------------------------------|------------------------------------|---------------|
| 154 | Groundman - ELECTRICAL LINE CONSTRUCTION ONLY | 21.30 | 10.97 | 32.27 |
| | TRUCK DRIVERS | | | |
| CODE | Fringe Benefits Must Be Pald On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 201 | Single Axle or Two Axle Future Increase(s): Add \$1.75/hr on 6/1/2012; Add \$1.85/hr on 6/1/2013. 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. | 22.35 | 16.19 | 38.54 |
| 203 | Three or More Axle Future Increase(s): Add \$1.75/hr on 6/1/2012; Add \$1.85/hr on 6/1/2013. 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. | 22.50 | 16.19 | 38.69 |
| 204 | Articulated, Euclid, Dumptor, Off Road Material Hauler | 24.91 | 15.63 | 40.54 |
| 205 | Pavement Marking Vehicle | 23.84 | 14.76 | 38.60 |
| 206 | Shadow or Pilot Vehicle | 24.76 | 15.35 | 40.11 |

40.26

15.35

24.91

Truck Mechanic

206

207

| | LABORERS | | | |
|------|---|--------------------------------------|------------------------------------|-------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 301 | General Laborer Future Increase(s): Add \$1.60/hr on 6/1/2012: Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. Premium Increase(s): Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. / DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New | 27.20 | 13.45 | 40.65 |
| | 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). | | | ŧ |
| 302 | Asbestos Abatement Worker | 23.96 | 12.88 | 36.84 |
| 303 | Landscaper Future Increase(s): Add \$1.60/hr on 6/1/12; Add \$1.70/hr on 6/1/13; 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). | 27,20 | 13.45 | 40.65 |
| 304 | Flagperson or Traffic Control Person Future Increase(s): Add \$1.60/hr on 6/1/2012; Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. 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 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. | 23.55 | 13.45 | 37.00 |

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
|------|--|--------------------------------------|------------------------------------|--------------------|
| 311 | Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 16.51 | 0.00 | 16.51 |
| 314 | Railroad Track Laborer | 14.00 | 4.77 | 18.77 |
| W. | HEAVY EQUIPMENT OPERATORS AIRPORT PAVEMENT OR STATE HIGHWAY CO | NSTRUCTION | | 1 |
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | <u>TOTAL</u> \$ |
| 531 | 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; Traveling Crane (Bridge Type). Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/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). | 34.22 | 18.90 | 53.12 |
| 532 | 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 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); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/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). | | 18.90 | 52.62 |

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
|------|--|--------------------------------------|------------------------------------|-------------|
| 533 | Air Track Rotary or Percussion Drilling Machine &/or Hammers, Blaster: | 33.22 | 18.90 | 52.12 |

Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed: Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes): 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 & Gutter Machine; Concrete Spreader & 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); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; 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); 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 & A-Frames.

Future Increase(s):
Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.

| 91 | Fringe Benefits Must Be Paid On All Hours Worked | HOURLY BASIC RATE | HOURLY FRINGE | // Spaggare Till secure ** |
|------|--|----------------------|------------------|----------------------------|
| CODE | TRADE OR OCCUPATION | OF PAY \$ | BENEFITS \$ | TOTAL \$ |
| | Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawer (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; Tining or Curing Machine. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. | 32,96 | 18.90 | 51.86 |
| | 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). | | | |
| 535 | Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; 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 \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic | 32.67 | 18.90 | 51.57 |
| | 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). | de d | | |
| 536 | Fiber Optic Cable Equipment. | 22.00 | 7.27 | 29.27 |
| 537 | Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer. | 36.20 | 18.81 | 55.01 |

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
|------|---|--------------------------------------|------------------------------------|-------------|
| 538 | 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. | 36.20 | 18.81 | 55.01 |
| 539 | 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. | 26.80 | 18.52 | 45.32 |
| 540 | 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. | 3 | 18.52 | 45.32 |

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION

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).

| | SKILLED TRADES | | | 20 |
|------|---|--------------------------------------|------------------------------------|-------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 103 | Bricklayer, Blocklayer or Stonemason | 32.66 | 16.20 | 48.86 |
| 105 | Carpenter | 29.06 | 15.16 | 44.22 |
| 107 | Cement Finisher Future Increase(s): Add \$1.86 on 6/1/12; Add \$1.87 on 6/1/13; 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. | 30.68 | 15,68 | 46.36 |
| 109 | Electrician Future Increase(s): Add \$.50/hr. effective 06/04/2012. 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. | 28.74 | 17.86 | 46.60 |
| 111 | Fence Erector | 25.50 | 0.26 | 25.76 |
| 116 | Ironworker · | 30.90 | 19.11 | 50.01 |
| 118 | Line Constructor (Electrical) | 35.97 | 18.08 | 54.05 |
| 124 | Painter | 25.65 | 14.11 | 39.76 |
| 125 | Pavement Marking Operator | 26.00 | 0.00 | 26.00 |
| 126 | Piledriver | 29.56 | 15.16 | 44.72 |
| 133 | Roofer or Waterproofer | 28.06 | 0.00 | 28.06 |
| 137 | Teledata Technician or Installer | 21.26 | 6.99 | 28.25 |
| 143 | Tuckpointer, Caulker or Cleaner | 22.00 | 9.75 | 31.75 |
| 144 | Underwater Diver (Except on Great Lakes) | 36.20 | 18.81 | 55.01 |
| 150 | Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 35.42 | 12.90 | 48.32 |

| Page | 00 | -1 | 0 | 1 |
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| Page | 11 | OI. | .11 | |
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| Determ | ination No. 201200105 | | | Page 22 of 30 |
|--------|--|--------------------------------------|------------------------------------|---------------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 151 | Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY Premium Increase(s): | 29.64 | 14.64 | 44.28 |
| 152 | Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 25.18 | 13.07 | 38.25 |
| 153 | Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 23.38 | 12.48 | 35.86 |
| 154 | Groundman - ELECTRICAL LINE CONSTRUCTION ONLY | 21.30 | 10.97 | 32.27 |
| | TRUCK DRIVERS | | | |
| CODE | Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
| | · | 15.00 | 0.00 | 15.00 |
| 201 | Single Axle or Two Axle | | 4.97 | 24.47 |
| 203 | Three or More Axle | 19.50 | | |
| 204 | Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1/hr on 6/3/2012; Add \$1/hr on 6/2/2013. | 31.89 | 17.98 | 49.87 |
| 205 | Pavement Marking Vehicle | 19.25 | 10.84 | 30.09 |
| 206 | Shadow or Pilot Vehicle | 15.00 | 0.00 | 15.00 |
| 207 | Truck Mechanic | 19.50 | 4.97 | 24.47 |
| | LABORERS | | | |
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 301 | General Laborer | 26.15 | 12.29 | 38.44 |
| 303 | Landscaper | 23.71 | 15.07 | 38.78 |
| 304 | Flagperson or Traffic Control Person | 12.00 | 17.89 | 29.89 |
| 311 | Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 16.51 | 0.00 | 16.51 |
| 314 | Railroad Track Laborer | 14.00 | 4.77 | 18.77 |
| | | | | |

| HEAVY | EQUIPMENT OPERATORS |
|-------|----------------------------|
| | PAVEMENT OR BRIDGE WORK |

| CODE | Fringe Benefits Must Be Pald On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
|------|--|--------------------------------------|------------------------------------|-------------|
| 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 \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/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). | 34.22 | 18.90 | 53.12 |
| 542 | Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or | 33.72 | 18.90 | 52.62 |

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 \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.

| CODE | Fringe Benefits Must Be Pald On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ | |
|------|--|--------------------------------------|------------------------------------|-------------|--|
| 543 | Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; | 33.22 | 18.90 | 52.12 | |

Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & 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 & Gutter Machine; Concrete Spreader & 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 Flnisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.

Future Increase(s):
Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.

| | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked | HOURLY BASIC RATE | HOURLY FRINGE | |
|------|---|----------------------|------------------|-------------|
| CODE | TRADE OR OCCUPATION | OF PAY \$ | BENEFITS \$ | TOTAL \$ |
| 544 | Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawer (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. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/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). | 33,22 | 18.90 | 52.12 |
| 545 | Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oller; 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. | 30.42 | 17.58 | 48.00 |
| 546 | Fiber Optic Cable Equipment. | 22.00 | 7.27 | 29.27 |
| 547 | Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer. | 36.20 | 18.81 | 55.01 |
| 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. | 36.20 | 18.81 | 55.01 |
| 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. | 26.80 | 18.52 | 45,32 |
| 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. | 3 | 18.52 | 45.32 |

HEAVY EQUIPMENT OPERATORS ASPHALT PAVEMENT OR OTHER WORK

| CODE | Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
|------|--|--------------------------------------|------------------------------------|-------|
| 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 Boor Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. | 34.62 n | 17.96 | 52.58 |
| 552 | Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. o 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 o 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 \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr | E | 18.90 | 52.62 |

on 6/1/14.

| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
|------|--|--------------------------------|------------------------------|-------------|
| 553 | Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & 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. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonlo, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb & 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 & A-Frames. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. | i , | 18.55 | \$ 51,22 |
| 554 | Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawer (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. | 31.52 | 17.89 | 49.41 |
| 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 \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. | 32.67 | 18.55 | 51.22 |
| 556 | Fiber Optic Cable Equipment. | 22.00 | 7.27 | 29.27 |

RESIDENTIAL OR AGRICULTURAL CONSTRUCTION

Includes single family houses or apartment buildings of no more than four (4) stories in height and all buildings, structures or facilities that are primarily used for agricultural or farming purposes, excluding commercial buildings. For classification purposes, the exterior height of a residential building, in terms of stories, is the primary consideration. All incidental items such as site work, driveways, parking lots, private sidewalks, private septic systems or sewer and water laterals connected to a public system and swimming pools are included within this definition. Residential buildings of five (5) stories and above are NOT included within this definition.

| | SKILLED TRADE | S | | 5/ |
|------|--|--------------------------------------|------------------------------------|-------------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 101 | Acoustic Ceiling Tile Installer | 27.00 | 2.47 | 29.47 |
| 102 | Bollermaker | 31.09 | 23.75 | 54.84 |
| 103 | Bricklayer, Blocklayer or Stonemason | 32.00 | 3.00 | 35.00 |
| 104 | Cabinet Installer | 22.00 | 2.74 | 24.74 |
| 105 | Carpenter | 27.00 | 3.46 | 30.46 |
| 106 | Carpet Layer or Soft Floor Coverer | 23.95 | 2.78 | 26.73 |
| 107 | Cement Finisher | 21.33 | 4.25 | 25.58 |
| 108 | Drywall Taper or Finisher | 23.80 | 1.55 | 25.35 |
| 109 | Electrician | 22.00 | 9.18 | 31.18 |
| 110 | Elevator Constructor | 43.79 | 25.48 | 69.27 |
| 111 | Fence Erector | 17.64 | 4.33 | 21.97 |
| 112 | Fire Sprinkler Fitter | 36.39 | 16.97 | 53.36 |
| 113 | Glazier | 36.23 | 11.22 | 47.45 |
| 114 | Heat or Frost Insulator | 29.04 | 19.73 | 48.77 |
| 115 | Insulator (Batt or Blown) | 18.95 | 1.70 | 20.65 |
| 116 | Ironworker | 30.90 | 19.11 | 50.01 |
| 117 | Lather | 28.15 | 15.14 | 43.29 |
| 119 | Marble Finisher | 31.16 | 16.27 | 47.43 |
| 120 | Marble Mason . | 32.66 | 16.20 | 48.86 |
| 121 | Metal Building Erector | 17.50 | 2.80 | 20.30 |
| 123 | Overhead Door Installer | 17.00 | 0.00 | 17.00 |
| 124 | Painter | 25.65 | 6.33 | 31.98 |
| 125 | Pavement Marking Operator | 26.00 | 0.00 | 26.00 |

| Detelli | ilitation 140, 201200105 | , | | age 20 01 0 |
|---------|--|--------------------------------------|------------------------------------|-------------|
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 129 | Plasterer | 19.00 | 0.29 | 19.29 |
| 130 | Plumber | 30.00 | 10.34 | 40.34 |
| 132 | Refrigeration Mechanic | 30.96 | 0.00 | 30.96 |
| 133 | Roofer or Waterproofer | 29.85 | 1.55 | 31.40 |
| 134 | Sheet Metal Worker | 21.03 | 3.40 | 24.43 |
| 135 | Steamfitter | 32.59 | 11.05 | 43.64 |
| 137 | Teledata Technician or Installer | 19.23 | 5.32 | 24.55 |
| 138 | Temperature Control Installer | 22.45 | 4.11 | 26.56 |
| 139 | Terrazzo Finisher | 18.00 | 5.35 | 23.35 |
| 140 | Terrazzo Mechanic | 31.16 | 16.27 | 47.43 |
| 141 | Tile Finisher | 23.96 | 13.36 | 37.32 |
| 142 | Tile Setter | 21.00 | 0.00 | 21.00 |
| 143 | Tuckpointer, Caulker or Cleaner | 23.96 | 12.88 | 36.84 |
| 146 | Well Driller or Pump Installer | 15.10 | 12.38 | 27.48 |
| 147 | Siding Installer | 18.80 | 1.42 | 20.22 |
| | TRUCK DRIVERS | | | |
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 201 | Single Axle or Two Axle | 19.86 | 2.54 | 22.40 |
| 203 | Three or More Axle | 19.50 | 14.27 | 33.77 |
| 205 | Pavement Marking Vehicle | 19.25 | 10.84 | 30.09 |
| 207 | Truck Mechanic | 19.00 | 1.75 | 20.75 |
| | LABORERS | | | |
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL |
| 301 | General Laborer | 16.09 | 7.18 | 23.27 |
| 302 | Asbestos Abatement Worker | 17.00 | 2.21 | 19.21 |
| 303 | Landscaper | 25.00 | 0.54 | 25.54 |
| | | | | |

| Determ | ination | No | 201 | 200105 | |
|--------|---------|----|-----|--------|--|

Page 30 of 30

| Defeui | nination No. 201200105 | | Page 30 of 30 | |
|--------|--|--------------------------------------|------------------------------------|-------------|
| 311 | Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 16.51 | 0.00 | 16.51 |
| | HEAVY EQUIPMENT OPERATORS RESIDENTIAL OR AGRICULTURAL CONST | | 2 | |
| CODE | Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY \$ | HOURLY FRINGE BENEFITS \$ | TOTAL \$ |
| 557 | Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type); Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vlbratory/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 & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Crane, Shovel, Dragline, Clamshells; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; 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; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); 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); Winches & A-Frames. | | 15.37 | 44.82 |
| 558 | Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Backfiller; Belting, Burlap, Texturing Machine; Boller (Temporary Heat); Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Jeep Digger; Lift Slab Machine; Mulcher; Oiler; Post Hole Digger or Driver; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Roller (Rubber Tire, 5 Tons or Under); Screed (Milling Machine); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Stump Chipper; Telehandler; Vibratory Hammer or Extractor, Power Pack. | i i | 14.35 | 40.80 |