

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
DT1502 10/2010 s.66.29(7) Wis. Stats.

Proposal Number:

14

| COUNTY | STATE PROJECT ID | FEDERAL PROJECT ID | PROJECT DESCRIPTION | HIGHWAY |
|----------------------------------|------------------|--------------------|---|------------------|
| Kenosha, Ozaukee, & Racine | 3700-20-73 | | Replace Existing Signals, Ken/Oz/Ra Various Locations | Various Highways |

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required, \$ 75,000.00
Payable to: Wisconsin Department of Transportation

Attach Proposal Guaranty on back of this PAGE.

Bid Submittal Due
Date: February 9, 2016
Time (Local Time): 9:00 AM

Firm Name, Address, City, State, Zip Code

**SAMPLE
NOT FOR BIDDING PURPOSES**

Contract Completion Time
Eighty (80) Working Days

Assigned Disadvantaged Business Enterprise Goal

0 %

This contract is exempt from federal oversight.

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

(Print or Type Name, Notary Public, State Wisconsin)

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

For Department Use Only

Type of Work

Replacing existing traffic signals at four intersections and all restoration work for affected areas.

Notice of Award Dated

Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

The bidder, signing and submitting this proposal, agrees and declares as a condition thereof, to be bound by the following conditions and requirements.

If the bidder has a corporate relationship with the proposal design engineering company, the bidder declares that it did not obtain any facts, data, or other information related to this proposal from the design engineering company that was not available to all bidders.

The bidder declares that they have carefully examined the site of, and the proposal, plans, specifications and contract forms for the work contemplated, and it is assumed that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the specifications, special provisions and contract. It is mutually agreed that submission of a proposal shall be considered conclusive evidence that the bidder has made such examination.

The bidder submits herewith a proposal guaranty in proper form and amount payable to the party as designated in the advertisement inviting proposals, to be retained by and become the property of the owner of the work in the event the undersigned shall fail to execute the contract and contract bond and return the same to the office of the engineer within fourteen (14) days after having been notified in writing to do so; otherwise to be returned.

The bidder declares that they understand that the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the specifications.

The bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amounts in full payment of said work.

The bidder declares that all of the said work will be performed at their own proper cost and expense, that they will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications and the approved plans for the work together with all standard and special designs that may be designed on such plans, and the special provisions in the contract of which this proposal will become a part, if and when accepted. The bidder further agrees that the applicable specifications and all plans and working drawings are made a part hereof, as fully and completely as if attached hereto.

The bidder, if awarded the contract, agrees to begin the work not later than ten (10) days after the date of written notification from the engineer to do so, unless otherwise stipulated in the special provisions.

The bidder declares that if they are awarded the contract, they will execute the contract agreement and begin and complete the work within the time named herein, and they will file a good and sufficient surety bond for the amount of the contract for performance and also for the full amount of the contract for payment.

The bidder, if awarded the contract, shall pay all claims as required by Section 779.14, Statutes of Wisconsin, and shall be subject to and discharge all liabilities for injuries pursuant to Chapter 102 of the Statutes of Wisconsin, and all acts amendatory thereto. They shall further be responsible for any damages to property or injury to persons occurring through their own negligence or that of their employees or agents, incident to the performance of work under this contract, pursuant to the Standard Specifications for Road and Bridge Construction applicable to this contract.

In connection with the performance of work under this contract, the contractor agrees to comply with all applicable state and federal statutes relating to non-discrimination in employment. No otherwise qualified person shall be excluded from employment or otherwise be subject to discrimination in employment in any manner on the basis of age, race, religion, color, gender, national origin or ancestry, disability, arrest or conviction record (in keeping with s.111.32), sexual orientation, marital status, membership in the military reserve, honesty testing, genetic testing, and outside use of lawful products. This provision 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. The contractor further agrees to ensure equal opportunity in employment to all applicants and employees and to take affirmative action to attain a representative workforce.

The contractor agrees to post notices and posters setting forth the provisions of the nondiscrimination clause, in a conspicuous and easily accessible place, available for employees and applicants for employment.

If a state public official (section 19.42, Stats.) or an organization in which a state public official holds at least a 10% interest is a party to this agreement, this contract is voidable by the state unless appropriate disclosure is made to the State of Wisconsin Ethics Board.

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

- (1) Obtain bidding proposals as specified in **section 102** of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

- (3) The department will provide bidding information through the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 P.M. local time on the Thursday before the letting. Check the department's web site after 5:00 P.M. local time on the Thursday before the letting to ensure all addenda have been accounted for before preparing the bid. When bidding using methods 1 and 2 above, check the Bid Express™ on-line bidding exchange at <http://www.bidx.com/> after 5:00 P.M. local time on the Thursday before the letting to ensure that the latest schedule of items Expedite file (*.ebs or *.00x) is used to submit the final bid.

- (4) Interested parties can subscribe to the Bid Express™ on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

Info Tech Inc.
5700 SW 34th Street, Suite 1235
Gainesville, FL 32608-5371
email: <mailto:customer.support@bidx.com>

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, Madison, WI, during regular business hours.

- (7) Addenda posted after 5:00 PM on the Thursday before the letting will be emailed to the eligible bidders for that proposal. All eligible bidders shall acknowledge receipt of the addenda whether they are bidding on the proposal or not. Not acknowledging receipt may jeopardize the awarding of the project.

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 1. Have a properly executed annual bid bond on file with the department.
 2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:
 1. Download the latest schedule of items reflecting all addenda from the Bid ExpressTM web site.
 2. Use ExpediteTM software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of ExpediteTM software and the Bid ExpressTM web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

B.2 On a Printout with Accompanying Diskette or CD ROM

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid ExpressTM web site reflecting the latest addenda posted on the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>
Use ExpediteTM software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid ExpressTM web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the ExpediteTM generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the ExpediteTM generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder

Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the ExpediteTM generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.

- (5) In addition to the reasons specified in [section 102](#) of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
1. The check code printed on the bottom of the printout of the ExpediteTM generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the ExpediteTM generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.
 3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

- (1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.
- (2) Submit a schedule of items on paper conforming to [section 102](#) of the standard specifications. The department charges the bidder a \$75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."
- (3) In addition to the reasons specified in [section 102](#) of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
 2. The bidder fails to pay the \$75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the \$75.
 3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.
- (4) In addition to the reasons specified in [section 102](#) of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

| | | |
|-------------------|------------------------------------|--------------|
| Proposal Number | Project Number | Letting Date |
| Name of Principal | | |
| Name of Surety | State in Which Surety is Organized | |

We, the above-named Principal and the above-named Surety, are held and firmly bound unto the State of Wisconsin in the sum equal to the Proposal Guaranty for the total bid submitted for the payment to be made; we jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. The condition of this obligation is that the Principal has submitted a bid proposal to the State of Wisconsin acting through the Department of Transportation for the improvement designated by the Proposal Number and Letting Date indicated above.

If the Principal is awarded the contract and, within the time and manner required by law after the prescribed forms are presented for signature, enters into a written contract in accordance with the bid, and files the bond with the Department of Transportation to guarantee faithful performance and payment for labor and materials, as required by law, or if the Department of Transportation shall reject all bids for the work described, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect. In the event of failure of the Principal to enter into the contract or give the specified bond, the Principal shall pay to the Department of Transportation **within 10 business days of demand** a total equal to the Proposal Guaranty as liquidated damages; the liability of the Surety continues for the full amount of the obligation as stated until the obligation is paid in full.

The Surety, for value received, agrees that the obligations of it and its bond shall not be impaired or affected by any extension of time within which the Department of Transportation may accept the bid; and the Surety does waive notice of any such extension.

IN WITNESS, the Principal and Surety have agreed and have signed by their proper officers and have caused their corporate seals to be affixed this date: **(DATE MUST BE ENTERED)**

PRINCIPAL

(Company Name) **(Affix Corporate Seal)**

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

(Name of Surety) **(Affix Seal)**

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

IMPORTANT: A certified copy of Power of Attorney of the signatory agent must be attached to the bid bond.

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

| | |
|-----------------------------|--|
| Time Period Valid (From/To) | |
| Name of Surety | |
| Name of Contractor | |
| Certificate Holder | Wisconsin Department of Transportation |

This is to certify that an annual bid bond issued by the above-named Surety is currently on file with the Wisconsin Department of Transportation.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the annual bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing surety will give thirty (30) days written notice to the certificate holder indicated above.

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

Section 66.0901(7), Wisconsin Statutes, provides that as a part of the proposal, the bidder also shall submit a list of the subcontractors the bidder proposes to contract with and the class of work to be performed by each. In order to qualify for inclusion in the bidder's list a subcontractor shall first submit a bid in writing, to the general contractor at least 48 hours prior to the time of the bid closing. The list may not be added to or altered without the written consent of the municipality. A proposal of a bidder is not invalid if any subcontractor and the class of work to be performed by the subcontractor has been omitted from a proposal; the omission shall be considered inadvertent or the bidder will perform the work personally.

No subcontract, whether listed herein or later proposed, may be entered into without the written consent of the Engineer as provided in Subsection 108.1 of the Standard Specifications.

[illegible]

DECEMBER 2000

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER
RESPONSIBILITY MATTERS - PRIMARY COVERED TRANSACTIONS**

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.
4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.
7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

- (1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

Special Provisions

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| | | |
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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 3700-20-73, Replace Existing Signals along Various Highways in Kenosha, Ozaukee and Racine Counties, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2016 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20150630)

2. Scope of Work.

The work under this contract shall consist of replacing traffic signals, concrete medians and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the time frame for construction of the project within the 2016 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

Upon commencement of work at an intersection, complete the work at that intersection within 40 working days. This applies to STH 31/STH 165, STH 158/68th Avenue, STH 31/STH 38, and STH 167/STH 181.

If the contractor fails to complete the work at each of the intersections noted above within 40 working days of commencing work at that intersection, the department will assess the contractor \$1,320 in interim liquidated damages per intersection for each working day contract work remains incomplete beyond 40 working days. An entire working day will be charged for any period of time within a working day that the work at each intersection remains incomplete beyond 12:01 AM.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed according to standard spec 108.11.

4. Traffic.

Maintain emergency and local vehicular access at all times to all roadways and driveways within the project limits.

Peak Travel Times are defined as follows:

- 6:00 AM to 9:00 AM
- 3:00 PM to 6:00 PM

Nighttime Hours are defined as follows:

- 10:00 PM to 5:00 AM

Shoulder closures are allowed at any time and shall be properly implemented per the standard detail drawings and contract specifications.

Turn lane closures and single through travel lane closures are allowed except during peak travel times as described above. Close no more than one traffic lane at each approach at one time.

Full, rolling closures to install overhead traffic signal arms are only allowed during the nighttime hours defined above. Contact local law enforcement for assistance with traffic control a minimum of seven days prior to the required closure.

| | |
|--|----------------|
| Kenosha County Sheriff's Dispatch: | (262) 656-1234 |
| Racine County Sheriff's Dispatch: | (262) 886-2300 |
| Ozaukee County Sheriff's Dispatch: | (262) 284-8440 |
| State Patrol Dispatch: | (262) 785-4711 |
| WisDOT State Traffic Operations Center (STOC): | (800) 375-7302 |

Re-open lanes to traffic immediately upon completion of the construction operations that require their closure.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

| Closure type with height, weight, or width restrictions (available width, all lanes in one direction $\leq 16'$) | MINIMUM NOTIFICATION |
|---|----------------------|
| Lane and shoulder closures | 14 calendar days |
| Full roadway closures | 14 calendar days |
| System and service ramp closures | 14 calendar days |
| Full system and service ramp closures | 14 calendar days |
| Detours | 14 calendar days |
| | |
| Closure type without height, weight, or width restrictions (available width, all lanes in one direction $> 16'$) | MINIMUM NOTIFICATION |
| Lane and shoulder closures | 3 business days |
| System and service ramp closures | 3 business days |
| Modifying all closure types | 3 business days |

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

108-057 (20150630)

Advance Notification

Notify the engineer as soon as possible if there are any changes in the schedule, early completions, or cancellations of scheduled work.

Pedestrian Access

Maintain pedestrian access by keeping at least two legs of the intersection open to pedestrians at all times. Remove and pour sidewalks on the same day to minimize the time the sidewalk will be closed. The contractor must get approval of the engineer before closing any sidewalk.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the four intersections listed as part of this contract, and entirely clear the traveled way and shoulders of such portions of the roadway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 27, 2016 to 6:00 AM Tuesday, May 31, 2016 for Memorial Day;
- From noon Friday, July 1, 2016 to 6:00 AM Tuesday, July 5, 2016 for Independence Day;
- From noon Friday, September 2, 2016 to 6:00 AM Tuesday, September 6, 2016 for Labor Day.

107-005 (20050502)

6. Utilities.

This contract comes under the provisions of Administrative Rule TRANS 220.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are not anticipated for this construction project. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per state statute. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

Contact utility companies listed in the plans prior to preparing bids to obtain current information on existing utility locations and the status of any new utility relocation work.

There may be abandoned utility facilities within the project limits. If a conflict with an abandoned utility facility is encountered, contact the appropriate utility owner/representative to coordinate construction activities and proper removal and disposal of said facility as necessary.

Known utilities in the projects are as follows:

WIS 31 & WIS 165 / Pleasant Prairie

AT&T Wisconsin has existing underground communications facilities within the project limits in the following locations:

- An underground communications line beginning beyond the westerly project limits and running easterly along the westbound lanes of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground communications line beginning beyond the westerly project limits and running easterly along the eastbound lanes of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.

Contact Mark Eder, (262) 896-7434 office, of AT&T Wisconsin seven days in advance to coordinate locations and any excavation near their facilities.

Pleasant Prairie, Village of - Sewer has existing underground sanitary sewer facilities within the project limits in the following locations:

- A gravity sanitary sewer line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An 18-inch sanitary sewer force main beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- A 30-inch sanitary sewer force main beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.

Contact John Steinbrink Jr., (262) 925-6700 office, of Village of Pleasant Prairie seven days in advance to coordinate locations and any excavation near their facilities.

Pleasant Prairie, Village of - Water has an existing underground water main beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.

Contact John Steinbrink Jr., (262) 925-6700 office, of Village of Pleasant Prairie seven days in advance to coordinate locations and any excavation near their facilities.

Time Warner Cable has existing overhead and underground communications facilities within the project limits at the following locations:

- An overhead communications line on We Energies' poles beginning at a pole located at Station 562+02, RT and running easterly along the south right-of-way of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground communications line beginning beyond the westerly project limits and running easterly along the south right-of-way of STH 165 to a pole located at Station 562+02, RT. This line will remain in place without adjustment.
- An underground communications line beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 31, through the intersection and continuing northerly to beyond the project limits. This line will remain in place without adjustment.

Contact Steve Cramer (414-277-4045 office) of Time Warner Cable 7 days in advance to coordinate locations and any excavation near their facilities.

We Energies - Electric has existing underground and overhead electric facilities within the project limits in the following locations:

- An overhead electric line beginning at a pole located at Station 562+02, RT and running easterly along the south right-of-way of STH 165, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An overhead guy wire beginning at a pole located at Station 562+02, RT crossing STH 165 northerly to a guy pole located at Station 562+00, LT. This line will remain in place without adjustment.
- An underground electric line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 165, jogging through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.

Contact Francisco Chavez, (414) 944-5540 office / (414) 322-1671 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

We Energies – Gas has an existing underground gas line beginning beyond the westerly project limits and running easterly along the south right-of-way of STH 165, jogging through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.

Contact Dennis Sinjakovic, (414) 540-5715 office, (262) 391-4268 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

Windstream has an existing underground communications line beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 31, through the intersection and continuing northerly to beyond the northerly project limits. This line will remain in place without adjustment.

Contact Jim Kostuch, (262) 792-7938 office, of Windstream seven days in advance to coordinate locations and any excavation near their facilities.

WisDOT - Lighting has existing underground and overhead lighting facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the lighting facilities as shown in the plans.

Contact Eric Perea, (262) 574-5422 office / (414) 750-0935 cell, of WisDOT - Lighting seven days in advance to coordinate construction activities.

WisDOT - Signals has existing underground and overhead signal facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the signal facilities as shown in the plans.

Contact WisDOT Traffic Signal Operations, (414) 750-2605, of WisDOT - Signals seven days in advance to coordinate construction activities.

WIS 158 & 68th Ave. / Kenosha

AT&T Wisconsin has existing underground communications facilities within the project limits in the following locations:

- An underground communications line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 158, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground communications line beginning beyond the northerly project limits and running southerly along the east right-of-way of 68th Avenue and tying into a pedestal located in the northeast corner of the intersection. This line will remain in place without adjustment.

Contact Mark Eder, (262) 896-7434 office, of AT&T Wisconsin seven days in advance to coordinate locations and any excavation near their facilities.

Kenosha Water Utility - Sewer has an existing underground sanitary sewer line beginning beyond the westerly project limits and running easterly along the south grass area of STH 158, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.

Contact Ian Bagley, (262) 653-4304 office / (262) 945-1405 cell, of Kenosha Water Utility seven days in advance to coordinate locations and any excavation near their facilities.

Kenosha Water Utility - Water has underground water main facilities within the project limits at the following locations:

- An underground water main beginning beyond the westerly project limits and running easterly along the north grass area of STH 158, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground water main beginning beyond the southerly project limits and running northerly along the middle of 68th Avenue, through the intersection and teeing into the east-west water main. This line will remain in place without adjustment.

Contact Ian Bagley, (262) 653-4304 office / (262) 945-1405 cell, of Kenosha Water Utility seven days in advance to coordinate locations and any excavation near their facilities.

Time Warner Cable has existing underground communications facilities within the project limits at the following locations:

- An underground communications line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 158, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground communications line beginning beyond the northerly project limits and running southerly along the east right-of-way of 68th Avenue and tying into a pedestal located in the northeast corner of the intersection. This line will remain in place without adjustment.

Contact Steve Cramer, (414) 277-4045 office, of Time Warner Cable seven days in advance to coordinate locations and any excavation near their facilities.

We Energies - Electric has existing underground and overhead electric facilities within the project limits at the following locations:

- An underground electric line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 158, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground electric line beginning beyond the southerly project limits and running northerly along the east right-of-way of 68th Avenue, turning easterly and continuing to a transformer located at Station 273+10, RT. This line will remain in place without adjustment.
- An underground electric line beginning beyond the northerly project limits and running southerly along the east right-of-way of 68th Avenue, jogging through the intersection and turning easterly and continuing to a pole located at Station 273+13, RT. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 273+13, RT running easterly to beyond the easterly project limits. This line will remain in place without adjustment.

Contact Francisco Chavez, (414) 944-5540 office / (414) 322-1671 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

We Energies - Gas has existing underground gas facilities within the project limits in the following locations:

- An underground gas line beginning beyond the southerly project limits and running northerly along the west right-of-way of 68th Avenue, jogging through the intersection and continuing to beyond the northerly project limits. This line will remain in place without adjustment.

- An underground gas line beginning beyond the easterly project limits and running westerly along the south right-of-way of STH 158 and teeing into the north-south water main near the southeast corner of the intersection. This line will remain in place without adjustment.

Contact Dennis Sinjakovic, (414) 540-5715 office / (262) 391-4268 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

WisDOT - Lighting has existing underground and overhead lighting facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the lighting facilities as shown in the plans.

Contact Eric Perea, (262) 574-5422 office / (414) 750-0935 cell, of WisDOT - Lighting seven days in advance to coordinate construction activities.

WisDOT - Signals has existing underground and overhead signal facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the signal facilities as shown in the plans.

Contact WisDOT Traffic Signal Operations, (414) 750-2605, of WisDOT - Signals seven days in advance to coordinate construction activities.

WIS 167 & WIS 181 / Mequon

AT&T Wisconsin has existing underground communications facilities within the project limits in the following locations:

- An underground communications line beginning beyond the westerly project limits and running easterly along the median of STH 167, to a manhole located in the middle of the intersection and continuing easterly where it turns northeasterly and tying into a pedestal located in the northeast corner of the intersection. This line will remain in place without adjustment.
- An underground communications line beginning beyond the northerly project limits and running southerly along the median of STH 181, through the intersection and continuing to beyond the southerly project limits. This line will remain in place without adjustment.
- An underground communications line beginning beyond the northerly project limits running southerly along the east right-of-way of STH 181, turning southeasterly and continuing easterly along the north right-of-way of STH 167 to beyond the easterly project limits. This main will remain in place without adjustment.

Contact Mark Eder, (262) 896-7434 office, of AT&T Wisconsin seven days in advance to coordinate locations and any excavation near their facilities.

Mequon, City of - Sanitary has an existing underground sanitary sewer line beginning beyond the southerly project limits and running northerly along the northbound lanes of STH 181 through the intersection and continuing to beyond the northerly project limits. This line will remain in place without adjustment.

Contact Aaron Jahncke, (262) 236-2937, of City of Mequon - Sanitary seven days in advance to coordinate locations and any excavation near their facilities.

Mequon, City of - Water has existing underground water facilities within the project limits at the following locations:

- An underground water main beginning beyond the southerly project limits and running northerly along the east grass area of STH 181, jogging through the intersection and continuing to beyond the northerly project limits. This line will remain in place without adjustment.
- An underground water main beginning beyond the easterly project limits and running westerly along the south right-of-way of STH 167 and teeing into the north-south water main near the southeast corner of the intersection. This line will remain in place without adjustment.

Contact Jim Voigt, (414) 559-8656, of City of Mequon - Water seven days in advance to coordinate locations and any excavation near their facilities.

Time Warner Cable has underground and overhead communications facilities within the project limits at the following locations:

- An underground communications line beginning beyond the westerly project limits running easterly along the north right-of-way of STH 167 where it turns southerly, crossing STH 167 at Station 114+66. From there turns easterly continuing along the south right-of-way of STH 167 where it turns southerly at Station 117+90 to beyond the southerly project limits. This line will remain in place without adjustment.
- An underground communications line beginning at a pole located at Station 223+20, RT and running northerly along the east right-of-way of STH 181, jogging through the intersection and continuing northeasterly to a pedestal located at Station 121+84, 62' LT. This line will remain in place without adjustment.
- An underground communications line beginning at a pole located at Station 228+76, 58' RT and running southerly along the east right-of-way of STH 181, turning southeasterly and running easterly along the north right-of-way of STH 167 to a pedestal located at Station 121+84, 62' LT. This line will remain in place without adjustment.
- An underground communications line beginning beyond the easterly project limits and running westerly along the north right-of-way of STH 167, to a pedestal located at Station 121+84, 62' LT. This line will remain in place without adjustment.

- An overhead communications line on We Energies poles beginning beyond the southerly project limits running northerly along the east right-of-way to a pole located at Station 222+46, RT where it turns northwesterly crossing STH 181 to a pole located at Station 222+86, LT and continuing westerly to beyond the westerly project limits. This line will remain in place without adjustment.
- An overhead communications line on We Energies poles beginning at a pole located at Station 228+76, RT crossing STH 181 at Station 229+03 and continuing westerly to beyond the westerly project limits. This line will remain in place without adjustment.
- An overhead communications line on We Energies poles beginning at a pole located at Station 228+76, RT running northerly along the east right-of-way to beyond the northerly project limits. This line will remain in place without adjustment.

Contact Steve Cramer, (414) 277-4045 office, of Time Warner Cable seven days in advance to coordinate locations and any excavation near their facilities.

We Energies - Electric has existing underground and overhead electric facilities within the project limits at the following locations:

- An underground electric line beginning at a pole located at Station 222+86, LT, crossing STH 181 at Station 222+88 where it turns northerly running along the east right-of-way of STH 181 turning northeasterly and running easterly along the south right-of-way of STH 167 to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground electric line beginning beyond the easterly project limits and running westerly along the north right-of-way of STH 167, turning southerly and crossing STH 167 at Station 123+40. From there it turns westerly running along the south right-of-way of STH 167 to a control cabinet located at Station 120+93, 77' RT. This line will remain in place without adjustment.
- An overhead electric line beginning beyond the southerly project limits running northerly along the east right-of-way to a pole located at Station 222+46, RT where it turns northwesterly crossing STH 181 to a pole located at Station 222+86, LT and continuing westerly to beyond the westerly project limits. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 228+76, RT crossing STH 181 at Station 229+03 and continuing westerly to beyond the westerly project limits. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 228+76, RT running northerly along the east right-of-way of STH 181 to beyond the northerly project limits. This line will remain in place without adjustment.

Contact Francisco Chavez, (414) 944-5540 office / (414) 322-1671 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

We Energies - Gas has existing underground gas facilities within the project limits in the following locations:

- An underground gas line beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 181, jogging through the intersection and continuing to beyond the northerly project limits. This line will remain in place without adjustment.
- An underground gas line beginning beyond the easterly project limits and running westerly along the south right-of-way of STH 167 and teeing into the north-south gas main near the southeast corner of the intersection. This line will remain in place without adjustment.
- An underground gas line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 167 and teeing into the north-south gas main near the northwest corner of the intersection. This line will remain in place without adjustment.

Contact Dennis Sinjakovic, (414) 540-5715 office / (262) 391-4268 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

WisDOT - Lighting has existing underground and overhead lighting facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the lighting facilities as shown in the plans.

Contact Eric Perea, (262) 574-5422 office / (414) 750-0935 cell, of WisDOT - Lighting seven days in advance to coordinate construction activities.

WisDOT - Signals has existing underground and overhead signal facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the signal facilities as shown in the plans.

Contact WisDOT Traffic Signal Operations, (414) 750-2605, of WisDOT - Signals seven days in advance to coordinate construction activities.

WIS 31 & WIS 38 / Mount Pleasant

AT&T Wisconsin has existing underground communications facilities within the project limits in the following locations:

- An underground communications line beginning beyond the westerly project limits running easterly along the north curb line of STH 38, turning northeasterly and continuing northerly along the west right-of-way of STH 31 to beyond the northerly project limits. This main will remain in place without adjustment.

- An underground communications line beginning at a manhole located at Station 109+45, 46' LT running easterly along the westbound lanes of STH 38, through the intersection turning northeasterly and continuing northerly along the east right-of-way of STH 31 to beyond the northerly project limits. This main will remain in place without adjustment.
- An underground communications line beginning at a manhole located at Station 109+45, 46' LT running easterly along the westbound lanes of STH 38, through the intersection and continuing easterly to beyond the easterly project limits. This main will remain in place without adjustment.

Contact Mark Eder, (262) 896-7434 office, of AT&T Wisconsin seven days in advance to coordinate locations and any excavation near their facilities.

Mount Pleasant, Village of - Sewer has underground sanitary sewer facilities within the project limits in the following locations:

- An underground sanitary sewer line beginning beyond the westerly project limits and running easterly along the eastbound lanes of STH 38, through the intersection and continuing to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground sanitary sewer line beginning beyond the southerly project limits and running northerly along the northbound lanes of STH 31 and teeing into the east-west sanitary sewer. This line will remain in place without adjustment.

Contact William Sasse, (262) 664-7833, of Village of Mount Pleasant - Sewer seven days in advance to coordinate locations and any excavation near their facilities.

Racine, City of – Water & Wastewater has an existing underground water main beginning beyond the westerly project limits and running easterly along the south right-of-way of STH 38, turning southeasterly, and continuing southerly along the west right-of-way of STH 31 to beyond the southerly project limits. This main will remain in place without adjustment.

Contact Chad Regalia, (262) 497-4611, of City of Racine – Water & Wastewater seven days in advance to coordinate locations and any excavation near their facilities.

Time Warner Cable has underground and overhead communications facilities within the project limits at the following locations:

- An overhead communications line on We Energies poles beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 31, through the intersection and continuing northerly to beyond the project limits. This line will remain in place without adjustment.

- An overhead communications line beginning at a pole located at Station 107+01, LT crossing STH 38 to a pole located at Station 107+14, RT continuing southerly to beyond the southerly project limits. This line will remain in place without adjustment.
- An overhead communications line on We Energies poles beginning at a pole located at Station 110+49, LT running westerly along the north right-of-way of STH 38 to beyond the westerly project limits. This line will remain in place without adjustment.
- An overhead communications line on We Energies poles beginning at a pole located at Station 112+95, RT running easterly along the south right-of-way of STH 38 to beyond the easterly project limits. This line will remain in place without adjustment.
- An underground communications line beginning at a pole located at Station 651+49, 63' LT crossing STH 31 easterly and jogging northeast to a pole located at Station 112+95, RT. This line will remain in place without adjustment.

Contact Steve Cramer, (414) 277-4045 office, of Time Warner Cable seven days in advance to coordinate locations and any excavation near their facilities.

We Energies - Electric has overhead electric facilities within the project limits at the following locations:

- An overhead electric line beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 31, through the intersection and continuing northerly to beyond the project limits. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 110+49, LT running westerly along the north right-of-way of STH 38 to beyond the westerly project limits. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 112+95, RT running easterly along the south right-of-way of STH 38 to beyond the easterly project limits. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 112+95, RT running northerly crossing STH 38 and running along the east right-of-way of STH 31 to a pole located at Station 654+52, RT. From there it turns northwesterly crossing STH 31 to a pole located at Station 665+87, LT. This line will remain in place without adjustment.
- An overhead electric line beginning at a pole located at Station 112+50, LT running easterly along the north right-of-way of STH 38 to a pole located at Station 114+64, LT turning northerly to beyond the northerly project limits. This line will remain in place without adjustment.

Contact Francisco Chavez, (414) 944-5540 office / (414) 322-1671 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

We Energies - Gas has existing underground gas facilities within the project limits in the following locations:

- An underground gas line beginning beyond the southerly project limits and running northerly along the southbound median lane of STH 31, through the intersection and continuing to beyond the northerly project limits. This line will remain in place without adjustment.
- An underground gas line beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 31, turning northwesterly and then continuing westerly along the south right-of-way of STH 38 to beyond the westerly project limits. This line will remain in place without adjustment.
- An underground gas line beginning beyond the westerly project limits and running easterly along the north right-of-way of STH 38 and teeing into an east-west gas main at Station 108+05, LT. This line will remain in place without adjustment.
- An underground gas line beginning at a tee at Station 108+05, RT continuing northerly across STH 38 and turning easterly where it tees into a north-south gas main at Station 653+43, LT. This line will remain in place without adjustment.
- An underground gas line beginning beyond the easterly project limits and running westerly along the north right-of-way of STH 38, where it turns southerly crossing STH 38 at Station 112+57. From there it turns westerly crossing STH 31 at Station 651+59 and tees into a north-south gas main at Station 651+59, LT. This line will remain in place without adjustment.
- An underground gas line beginning beyond the northerly project limits and running southerly along the east right-of-way of STH 31 where it turns southeasterly and tees into a north-south gas main near the northeast corner of the intersection. This line will remain in place without adjustment.

Contact Dennis Sinjakovic, (414) 540-5715 office / (262) 391-4268 cell, of We Energies seven days in advance to coordinate locations and any excavation near their facilities.

Windstream has an existing underground communications line beginning beyond the southerly project limits and running northerly along the west right-of-way of STH 31, through the intersection and continuing northerly to beyond the northerly project limits. This line will remain in place without adjustment.

Contact Jim Kostuch, (262) 792-7938 office, of Windstream seven days in advance to coordinate locations and any excavation near their facilities.

WisDOT - Lighting has existing underground and overhead lighting facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the lighting facilities as shown in the plans.

Contact Eric Perea, (262) 574-5422 office / (414) 750-0935 cell, of WisDOT - Lighting seven days in advance to coordinate construction activities.

WisDOT - Signals has existing underground and overhead signal facilities throughout the project limits. Remove, adjust, reconstruct, discontinue and leave in place the signal facilities as shown in the plans.

Contact WisDOT Traffic Signal Operations, (414) 750-2605, of WisDOT - Signals seven days in advance to coordinate construction activities.

7. Railroad Insurance and Coordination.

A Description

Comply with standard spec 107.17 for all work affecting Union Pacific Railroad Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Union Pacific Railroad Company.

Notify evidence of the required coverage, and duration to John Venice at (312) 777-2043, 101 North Wacker Drive – Suite 1920, Chicago, IL 60606. Include the following information on the insurance document:

Project: 3700-20-73
Route Name: STH 165
Crossing ID: 176900D
Railroad Subdivision: Milwaukee Sub
Railroad Milepost: MP 48.29

Project: 3700-20-73
Route Name: STH 158
Crossing ID: 176894C
Railroad Subdivision: Milwaukee Sub
Railroad Milepost: MP 52.83

A.2 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions and will be accomplished without cost to the contractor. None

A.3 Names and addresses of Railroad Representatives for Consultation and Coordination

Contact John Venice, Manager Special Projects – Industry & Public Projects Engineering Department, 101 North Wacker Drive – Suite 1920, Chicago, IL 60606, TELEPHONE (312) 777-2043, FAX (402) 233-2769, email jnvenice@up.com, for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

A.4 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 several weeks prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

A.5 Train Operation

Approximately 10 through freight trains operate daily through the construction site. Through freight trains operate at up to 50 mph. Switching movements are infrequent.

NOTE: Railroad protective liability insurance is required for traffic control that may be located either on the bridge over or within 50' of railroad property. If traffic control design does not involve any work on or within 50' of railroad property, it is possible railroad protective liability insurance may not be required.

8. Erosion Control.

Supplement standard spec 107.20 with the following:

Erosion control best management practices (BMP's) shown on the plans are at suggested locations. The actual locations will be determined by the contractor's ECIP and by the engineer. Include each dewatering (mechanical pumping) operation in the ECIP submittal. The ECIP will supplement information shown on the plans and not reproduce it. The ECIP will identify how to implement the project's erosion control plan. ECIP will demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-application of top soil to minimize the period of exposure to possible erosion.

Provide the ECIP 14 days prior to the pre-construction conference. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison, (Kristina Betzold-Ozaukee and Racine Co., (414) 263-8517, kristina.betzold@wisconsin.gov or Craig Webster-Kenosha Co., (262) 574-2141, craig.Webster@wisconsin.gov. Do not implement the ECIP until department approval, and perform all work according to the approved ECIP.

Maintain Erosion Control BMP's until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

Stockpile excess materials or spoils on upland areas away from wetlands, floodplains, and waterways. Immediately install perimeter silt fence protection around stockpiles. If stockpiled materials will be left for more than 14 days, install temporary seed or other temporary erosion control measures the engineer orders.

Re-apply topsoil on graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 days after placement of topsoil. If graded areas are left not completed and exposed for more than 14 days, seed those areas with temporary seed.

When performing roadway cleaning operations, the contractor shall use equipment having vacuum or water spray mechanism to eliminate the dispersion of dust. If vacuum equipment is employed, it shall have suitable self-contained particulate collectors to prevent discharge from the collection bin into the atmosphere.

Do not allow any excavation for; structures, utilities, grading, maintaining drainage that requires dewatering (mechanical pumping) of water containing sediments (sand, silt, and clay particles) to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Prior to each dewatering operation, submit to the department a separate ECIP amendment describing in words and pictorial format an appropriate BMP for sediment removal, according to WisDNR Storm Water Construction Technical Standard, Code 1061, Dewatering. Include reasoning, location, and schedule duration proposed for each operation. Per Code 1061, include all selection criteria: site assessment, dewatering practice selection, calculations, plans, specifications, operations, maintenance, and location of proposed treated water discharge. Provide a stabilized discharge area. If directing discharge towards or into an inlet structure, provide additional inlet protection for back-up protection. Dewatering is considered incidental to the project.

9. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 7:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.
107-001 (20060512)

10. Notice to Contractor – Contamination Beyond Construction Limits.

The department completed testing for soil and ground water contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following site(s):

1. Northeast corner of STH 31 and STH 38, Mt Pleasant, Racine County
2. Southwest corner of STH 167 and STH 181, Mequon, Ozaukee County
3. Northeast corner of STH 167 and STH 181, Mequon, Ozaukee County

The contaminated soils at the above sites are expected to be beyond the excavation limits necessary to complete the work under this project. Control construction operations at these locations to ensure that they do not extend beyond the excavation limits indicated in the plans. If contaminated soils are encountered at these sites or elsewhere on the project during excavation, terminate excavation in the area and notify the engineer.

The Hazardous Materials Report is available by contacting:

Paul Grittner
Department of Natural Resources
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, WI 53212
(414) 263-8541
paul.grittner@wisconsin.gov

107-100 (20050901)

11. Notice to Contractor – Traffic Signal Equipment Lead Time.

Lead time for traffic signal equipment specified for this project has been ranging from 12 weeks to 18 weeks. Order equipment as soon as possible to assure the equipment is procured in a timely fashion and, therefore, installed, inspected, and ready for turn-on at the required date.

12. Notice to Contractor – Work Near Survey Monuments.

The contractor must contact the engineer, SEWRPC (John Washburn), and Ozaukee Highway Commissioner Robert Dreblow at least two weeks prior to work near any public survey monument. See alignment details for section corner locations.

13. Removing Concrete Bases, Item 204.0195.

Append standard spec 204.3.2.1 (2) with the following:

At locations of concrete bases where complete removal of the base will impact existing curb ramps or sidewalk, break down and remove the concrete material to a depth of 2' below grade. Fill the area to grade with similar material as adjacent to the base (topsoil/seed, concrete sidewalk, asphalt, etc). Repair any damage to curb ramps caused by the removal process to match pre-construction conditions. No additional payment will be made for repair to areas damaged by the contractor's operations.

14. QMP Base Aggregate.

A Description

A.1 General

- (1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.
- (2) Conform to standard spec 301, standard spec 305, and standard spec 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.
- (3) Do not apply this special provision to material placed under the Aggregate Detours, Salvaged Asphaltic Pavement Base, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.
- (4) Provide and maintain a quality control program, defined as all activities related to and documentation of the following:
 1. Production and placement control and inspection.
 2. Material sampling and testing.
- (5) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required sampling and testing procedures. The contractor may obtain the CMM from the department's web site at:

<http://roadwaystandards.dot.wi.gov/standards/cmm/index.htm>

A.2 Contractor Testing for Small Quantities

- (1) The department defines a small quantity, for each individual Base Aggregate bid item, as a plan quantity of 9000 tons or less of material as shown in the schedule of items under that bid item.
- (2) The requirements under this special provision apply equally to a small quantity for an individual bid item except as follows:
 1. The contractor need not submit a full quality control plan but shall provide an organizational chart to the engineer including names, telephone numbers, and current certifications of all persons involved in the quality control program for material under affected bid items.

2. Divide the aggregate into uniformly sized sublots for testing as follows:

| Plan Quantity | Minimum Required Testing |
|------------------------------------|--|
| ≤ 1500 tons | One test from production, load-out, or placement at the contractor's option ^[1] |
| > 1500 tons and ≤ 6000 tons | Two tests of the same type, either from production, load-out, or placement at the contractor's option ^[1] |
| > 6000 tons and ≤ 9000 tons | Three placement tests ^{[2] [3]} |

- ^[1] If using production tests for acceptance, submit test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.
- ^[2] For 3-inch material, obtain samples at load-out.
- ^[3] If the actual quantity overruns 9000 tons, create overrun sublots to test at a rate of one additional placement test for each 3000 tons, or fraction of 3000 tons, of overrun.
3. No control charts are required. Submit aggregate load-out and placement test results to the engineer within one business day of obtaining the sample. Assure that all properties are within the limits specified for each test.
4. Department verification testing is optional for quantities of 6000 tons or less.
- (3) Material represented by a subplot with any property outside the specification limits is nonconforming. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

B Materials

B.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.
- (2) Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in each of the contractor's laboratories as changes are adopted. Ensure that the plan provides the following elements:
1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
 2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
 3. A list of source and processing locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
 4. Test results for wear, sodium sulfate soundness, freeze/thaw soundness, and plasticity index of all aggregates requiring QC testing. Obtain this information from the region materials unit or from the engineer.
 5. Descriptions of stockpiling and hauling methods.

6. Locations of the QC laboratory, retained sample storage, and where control charts and other documentation is posted.
7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

B.2 Personnel

- (1) Have personnel certified under the department's highway technician certification program (HTCP) perform sampling, testing, and documentation as follows:

| Required Certification Level: | Sampling or Testing Roles: |
|---|--|
| Aggregate Technician IPP Aggregate Sampling Technician Aggregate Assistant Certified Technician (ACT-AGG) | Aggregate Sampling ^[1] |
| Aggregate Technician IPP Aggregate Assistant Certified Technician (ACT-AGG) | Aggregate Gradation Testing, Aggregate Fractured Particle Testing, Aggregate Liquid Limit and Plasticity Index Testing |

^[1] Plant personnel under the direct observation of an aggregate technician certified at level one or higher may operate equipment to obtain samples.

- (2) A certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

B.3 Laboratory

- (1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:
Materials Management Section
3502 Kinsman Blvd.
Madison, WI 53704
Telephone: (608) 246-5388
<http://www.dot.state.wi.us/business/engrserv/lab-qualification.htm>

B.4 Quality Control Documentation

B.4.1 General

- (1) Submit base aggregate placement documentation to the engineer within 10 business days after completing base placement. Ensure that the submittal is complete, neatly organized, and includes applicable project records and control charts.

B.4.2 Records

- (1) Document all placement observations, inspection records, and control adjustments daily in a permanent field record. Also include all test results in the project records. Provide test results to the engineer within 6 hours after obtaining a sample. For 3-inch

base, extend this 6-hour limit to 24 hours. Post or distribute tabulated results using a method mutually agreeable to the engineer and contractor.

B.4.3 Control Charts

- (1) Plot gradation and fracture on the appropriate control chart as soon as test results are available. Format control charts according to CMM 8.30. Include the project number on base placement control charts. Maintain separate control charts for each base aggregate size, source or classification, and type.
- (2) Provide control charts to the engineer within 6 hours after obtaining a sample. For 3-inch base, extend this 6-hour limit to 24 hours. Post or distribute charts using a method mutually agreeable to the engineer and contractor. Update control charts daily to include the following:
 1. Contractor individual QC tests.
 2. Department QV tests.
 3. Department IA tests.
 4. Four-point running average of the QC tests.
- (3) Except as specified under B.8.2.1 for nonconforming QV tests, include only QC tests in the running average. The contractor may plot process control or informational tests on control charts, but do not include these tests, conforming QV tests, or IA tests in the running average.

B.5 Contractor Testing

- (1) Test gradation, fracture, liquid limit and plasticity index during placement for each base aggregate size, source or classification, and type.
- (2) Test gradation once per 3000 tons of material placed. Determine random sample locations and provide those sample locations to the engineer. Obtain samples after the material has been bladed, mixed, and shaped but before compacting; except collect 3-inch samples from the stockpile at load-out. Do not sample from material used to maintain local traffic or from areas of temporary base that will not have an overlying pavement. On days when placing only material used to maintain local traffic or only temporary base that will not have an overlying pavement, no placement testing is required.
- (3) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.
- (4) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.

- (5) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.
- (6) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

- (1) Test gradation using a washed analysis conforming to the following as modified in CMM 8.60:
 Gradation..... AASHTO T 27
 Material finer than the No. 200 sieve..... AASHTO T 11
- (2) For 3-inch base, if 3 consecutive running average points for the percent passing the No. 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis. Wash at least one sample out of 10. If a single running average for the percent passing the No. 200 sieve exceeds 8.5 percent, resume washed analyses until 3 consecutive running average points are again 8.5 percent passing or less.
- (3) Maintain a separate control chart for each sieve size specified in standard spec 305 or standard spec 310 for each base aggregate size, source or classification, and type. Set control and warning limits based on the standard specification gradation limits as follows:
 1. Control limits are at the upper and lower specification limits.
 2. There are no upper warning limits for sieves allowing 100 percent passing and no lower control limits for sieves allowing 0 percent passing.
 3. Dense graded warning limits, except for the No. 200 sieve, are 2 percent within the upper and lower control limits. Warning limits for the No. 200 sieve are set 0.5 percent within the upper and lower control limits.
 4. Open graded warning limits for the 1-inch, 3/8-inch, and No. 4 sieves are 2 percent within the upper and lower control limits. Upper warning limits for the No. 10, No. 40, and No. 200 sieves are 1 percent inside the upper control limit.

B.6.2 Fracture

- (1) Test fracture conforming to CMM 8.60. The engineer will waive fractured particle testing on quarried stone.
- (2) Maintain a separate fracture control chart for each base aggregate size, source or classification, and type. Set the lower control limit at the contract specification limit, either specified in another special provision or in table 301-2 of standard spec 301.2.4.5. Set the lower warning limit 2 percent above the lower control limit. There are no upper limits.

B.6.3 Liquid Limit and Plasticity

- (1) Test the liquid limit and plasticity according to AASHTO T 89 and T 90.
- (2) Ensure the material conforms to the limits specified in standard spec table 301-2.

B.7 Corrective Action

B.7.1 General

- (1) Consider corrective action when the running average trends toward a warning limit. Take corrective action if an individual test exceeds the contract specification limit. Document all corrective actions both in the project records and on the appropriate control chart.

B.7.2 Placement Corrective Action

- (1) Do not blend additional material on the roadbed to correct gradation problems.
- (2) Notify the engineer whenever the running average exceeds a warning limit. When 2 consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:
 1. For gradation, increase the QC testing frequency to at least one randomly sampled test per 1000 tons placed.
 2. For fracture, increase the QC testing frequency to at least one test per gradation test.
- (3) If corrective action improves the property in question such that the running average after 4 additional tests is within the warning limits, the contractor may return to the testing frequency specified in B.5.3. If corrective action does not improve the property in question such that the running average after 4 additional individual tests is still in the warning band, repeat the steps outlined above starting with engineer notification.
- (4) If the running average exceeds a control limit, material starting from the first running average exceeding the control limit and ending at the first subsequent running average inside the control limit is nonconforming and subject to pay reduction.
- (5) For individual test results significantly outside the control limits, notify the engineer, stop placing base, and suspend other activities that may affect the area in question. The engineer and contractor will jointly review data, data reduction, and data analysis; evaluate sampling and testing procedures; and perform additional testing as required to determine the extent of potentially unacceptable material. The engineer may direct the contractor to remove and replace that material. Individual test results are significantly outside the control limits if meeting one or more of the following criteria:
 1. A gradation control limit for the No. 200 sieve is exceeded by more than 3.0 percent.
 2. A gradation control limit for any sieve, except the No. 200, is exceeded by more than 5.0 percent.
 3. The fracture control limit is exceeded by more than 10.0 percent.

B.8 Department Testing

B.8.1 General

- (1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within 2 business days after the department obtains the sample.

B.8.2 Verification Testing

B.8.2.1 General

- (1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in B.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.
- (2) The department will conduct QV tests of each base aggregate size, source or classification, and type during placement conforming to the following:
 1. One non-random test on the first day of placement.
 2. At least one random test per 30,000 tons, or fraction of 30,000 tons, placed.
- (3) The department will sample randomly, at locations independent of the contractor's QC work, collecting one sample at each QV location. The department will collect QV samples after the material has been bladed, mixed, and shaped but before compacting; except, for 3-inch aggregates, the department will collect samples from the stockpile at load-out. The department will split each sample, test half for QV, and retain half.
- (4) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.
- (5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

B.8.3 Independent Assurance

- (1) Independence assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

1. Split sample testing.
 2. Proficiency sample testing.
 3. Witnessing sampling and testing.
 4. Test equipment calibration checks.
 5. Reviewing required worksheets and control charts.
 6. Requesting that testing personnel perform additional sampling and testing.
- (2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in B.9.

B.9 Dispute Resolution

- (1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.
- (2) Production test results, and results from other process control testing, may be considered when resolving a dispute.
- (3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C (Vacant)

D (Vacant)

E Payment

- (1) Costs for all sampling, testing, and documentation required under this special provision are incidental to this work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the non-performance of QMP administrative item.

- (2) For material represented by a running average exceeding a control limit, the department will reduce pay by 10 percent of the contract price for the affected Base Aggregate bid items listed in subsection A. The department will administer pay reduction under the Nonconforming QMP Base Aggregate Gradation or Nonconforming QMP Base Aggregate Fracture Administrative items. The department will determine the quantity of nonconforming material as specified in B.7.2.

301-010 (20100709)

15. Signing.

This special provision applies only to the intersection of STH 31 and STH 165.

Add the following to standard spec 637.2.4.2.1(3) and standard spec 637.2.4.2.2(2):

All sign mounting hardware, including stainless steel bands and clips, for signs attached to above ground traffic signal system equipment shall have a factory installed black finish.

16. Traffic Control.

Traffic Control Devices

Place drums for lane or shoulder closures 1-foot minimum from edge of live traffic lane except as shown on the plan. Drums placed adjacent to the work areas shall be pulled back from the traveled lane when work is not in progress.

Have available at all times sufficient experienced personnel to promptly install, remove and reinstall the required traffic control devices to properly route traffic or work operations.

Signs in conflict with the traffic control signs shall be covered and paid for as Traffic Control Covering Signs Type II. The engineer will determine which signs need to be covered.

Vehicle Strobe Lights

Supplement standard spec 107.8 as follows:

Equip all contractors' vehicles and equipment operating in or near live traffic lanes with at least one hazard identification beacon (flashing amber light). The flashing amber light shall be activated when vehicles or equipment are operated on the roadway, parked in close proximity to the roadway, and when entering or exiting live lanes of traffic. The flashing amber light shall be mounted approximately midway between the transverse extremities of the vehicles or machinery and at the highest practicable point that provides visibility from all directions. The light shall be of the flashing strobe or revolving type meeting the following requirements:

Flashing Strobe Type Light

360-degree lens
60 to 90 flashes per minute
5-inch minimum height
3 3/4-inch minimum diameter

Revolving Type Light

360-degree lens
45 to 90 flashes per minute
4 5/8-inch minimum height
3 3/4-inch minimum diameter

The light shall be equipped with bulbs of 50 candlepower minimum. Mounting shall be either magnetic or permanent. No compensation for furnishing and installing the flashing amber light to contractor owned construction equipment or vehicles will be provided for in the contract.

17. Traffic Signals, General.

Note that failure to comply with the state standards and specifications may result in the cost of the corrections to be made at the contractor's expense. Also, any additional disruption of department-owned facilities shall be repaired or relocated as needed at the contractor's expense.

Notify the department's Electrical Field Unit at (414) 266-1170 at least three weeks prior to the beginning of the traffic signal work.

Furnish the engineer with material lists and specifications of all traffic control equipment for approval prior to installation.

18. General Requirements for Electrical Work.

Replace standard spec 651.3.3 (3) with the following:

Notify the engineer to request a signal inspection at least five business days before the date of the requested inspection. A completed SE Region Prerequisites for Underground Inspection checklist is required prior to requesting an underground inspection. A completed Prerequisites for Aboveground Inspection checklist is required prior to requesting an aboveground permanent signal inspection. The engineer may require contractor presence for verification of Checklist completion. In the event of deficiencies, request a re-inspection when the work is corrected. The engineer will not authorize continuation to aboveground work/cabling or turn-on until the contractor corrects all deficiencies.

19. Install Conduit Into Existing Item, Item 652.0700.S.**A Description**

This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials

Use nonmetallic conduit, as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for the entering conduit(s) at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

The department will measure Install Conduit Into Existing System by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|-------------|------------------------------------|------|
| 652.0700.S | Install Conduit Into Existing Item | Each |

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

652-070 (20100709)

20. Electrical Service Meter Breaker Pedestal STH 31 and STH 38, Item 656.0200.3001; STH 167 and STH 181, Item 656.0200.3002; STH 31 and STH 165, Item 656.0200.3003; STH 158 and 68th Avenue, Item 656.0200.3004.

Append standard spec 656.2.3 with the following:

The department will be responsible for the electric service installation request for any department maintained facility.

Electric utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

Append standard spec 656.3.4 with the following:

Install the cabinet base and meter breaker pedestal first, so the electric utility company can install the service lateral. Finish grade the service trench, replace topsoil that is lost or contaminated with other materials, fertilize, seed, and mulch all areas that are disturbed by the electric utility company.

Append standard spec 656.5(3) with the following:

Payment for grading the service trench, replacing topsoil, fertilizer, seed, and mulch will be incidental to this work unless the bid items are in the contract and then they will be paid for at the contract price.

21. Traffic Signal Mounting Hardware.

Replace standard spec 658.2.1 (2) with the following:

Use an approved type of pole or standard vertical mounting brackets/clamps for signal faces from an approved manufacturer. Pedestrian traffic signal heads mounted in the median shall use federal yellow aluminum side of pole 2-way upper and lower arm assemblies providing 16 ½-inch center to center spacing.

22. Traffic Signal Faces.

Append standard spec 658.3.2 with the following:

Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

23. Pedestrian Signal Face 16-Inch.

Append standard spec 658.2.3.2(1) with the following:

Furnish 16 inch LED ready pedestrian signal housing, drilled for top/bottom pipe mount with the ability to rotate 270 degrees on poly mounting bracket.

Append standard spec 658.3.4 with the following:

Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

24. Pedestrian Push Buttons.

Append standard spec 658.2.5 with the following:

Furnish vandal resistant, pressure activated, pedestrian push buttons, with die cast body type, in unfinished aluminum or yellow. Button constructed shall be constructed of stainless steel, with a Piezo driven solid state switch and beeper that sounds simultaneously with button push.

Furnish low profile, unfinished cast aluminum, vandal resistant, and flush mounting pole mount.

Place a Size 1, Type H reflective (R10-3EL, R, D) sign sticker (per state sign plate), message series – B, directly above each push button. Include a directional arrow or arrows on the sign as the plans show.

25. Temporary Traffic Signals for Intersections STH 31 and STH 38, Item 661.0200.3001; STH 167 and STH 181, Item 661.0200.3002; STH 31 and STH 165, Item 661.0200.3003; STH 158 and 68th Avenue, Item 661.0200.3004.

Replace standard spec 661.2.1 paragraph (3) with the following:

(3) Use the existing underground electric service and/or meter breaker pedestal for the operation of the Temporary Traffic Signal. The department will pay for all energy costs for the operation of the Temporary Traffic Signal.

Coordinate with the Traffic Control contractor for the installation of temporary stop signs during switch over of the signal service whenever a generator is used. Placement of signs shall be according to the MUTCD, Signing Guidelines Manual and Work Zone Safety Guide.

Add the following to standard spec 661.2.1:

(5) Furnish all temporary traffic signal equipment as shown on the plan. All wood poles shall be plumb and level. Provide primary and secondary temporary traffic signal contact names and phone numbers who will be responsible for implementing temporary traffic signal timing changes. The department may request traffic signal timing changes to an approved timing plan during the project. Implement any approved timing plan change within 24 hours upon notification of the change. Immediately notify the department of implementation of temporary traffic signal timing changes. Record the times of operation of the incident timing and subsequent return to normal operation and provide this information to the department.

(6) Furnish pedestrian signal faces as shown in the plans, according to standard spec 658.2.3.

(7) Furnish pedestrian push buttons as shown in the plans, according to standard spec 658.2.5.

Add the following to standard spec 661.3.1:

(4) Install pedestrian signal faces on the wood pole or wood post as the plans show. Maintain the height to the bottom of the pedestrian signal face as indicated in SDD Traffic Signal Standard Poly Bracket Mountings (Typical) 13 FT. or 15 FT.

(5) Install pedestrian push buttons according to standard spec 658.3.5. Mount push buttons so that they are wheelchair accessible from the crossing areas and according to MUTCD Chapter 4.

Replace standard spec 661.3.1.1(2) with the following:

(2) Place the pole in the ground to no less than 1/5 of the pole's length as the plans show. Sawcut existing pavement and concrete curb and gutter as needed to install the wood poles and guy wire anchors. Sawcut existing pavement according to the pertinent provisions in standard spec 690.3, Construction. Remove pavement and concrete curb and gutter as shown on the plans and if needed to install the wood poles and guy wire anchors. Remove only as much pavement as needed to install the wood poles. Remove pavement and curb and gutter according to the pertinent provisions in standard spec 204.3, Construction. Hold any wood poles in place and/or move wood poles during construction due to conflicts with proposed work.

Replace standard spec 661.3.1.4(1) with the following:

(1) Arrange for every other week inspections with the engineer to check the height of the span wire above the roadways to ensure that the bottom of the traffic signal heads remain within the minimum and maximum heights allowed above the roadway. Make all height adjustments within 1-hour of an inspection indicating that adjustments are required. Notify the engineer in writing upon completion of all necessary adjustments. Maintain a written log to properly document the date of each every other week inspection, the heights above the roadway, the roadway clearance after adjustments have been made and acceptance by the engineer. Provide all documentation related to the every other week span wire height checks as well as all records related to maintenance performed on the temporary traffic signal installations to the engineer.

Replace standard spec 661.5(2) with the following:

(2) Payment for the Temporary Traffic Signals for Intersections bid item is full compensation for providing, operating, maintaining, and repairing the complete temporary installation; and for removal. Payment also includes the following:

1. Furnishing and installing the replacement equipment.
2. The cost of delivery and pick-up of the cabinet assemblies.
3. Removal of service and site restoration.
4. Traffic signal controller programming and timings (including timing changes)

Payment is full compensation for drilling holes; furnishing and installing all materials, including bricks, and coarse aggregate; for excavation, bedding, and backfilling, including any sand or other required materials; furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; for making inspections; for performing any and all maintenance related to the temporary traffic signal installation; and for cleaning up and properly disposing of waste.

**26. Traffic Signal Face 3-12 Inch Vertical Black, Item SPV.0060.0101;
4-12 Inch Vertical Black, Item SPV.0060.0102.**

A Description

Work under this specification shall be done in accordance to standard spec 658 and these special provisions.

B Materials

Materials shall be in accordance to standard spec 658.2 except as follows:

Replace standard spec 658.2.2.2(1) with the following:

Furnish polycarbonate resin housings, doors, visors, and backplates. Use black housings and dull black door faces, visors, and backplates. Ensure that the door is sized for 12-inch nominal diameter lenses and is held shut with eyebolts secured with wing nuts. Use cut away or tunnel type visors as the plans show. Use flat backplates that project 5 inches beyond all sides of the signal housing.

C Construction

Construction shall be in accordance to standard spec 658.3 except as follows:

Append standard spec 658.3.2 with the following:

Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

D Measurement

The department will measure Traffic Signal Face 3-12 Inch Vertical Black and Traffic Signal Face 4-12 Inch Vertical Black bid items as each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0060.0101 | Traffic Signal Face 3-12 Inch Vertical Black | Each |
| SPV.0060.0102 | Traffic Signal Face 4-12 Inch Vertical Black | Each |

Payment shall be in accordance to standard spec 658.5.

- 27. Pedestal Bases Black, Item SPV.0060.0103; Transformer Bases Breakaway 11 ½-Inch Bolt Circle Black, Item SPV.0060.0104; Poles Type 3 Black, Item SPV.0060.0105; Traffic Signal Standards Aluminum 13-FT Black, Item SPV.0060.0106; Traffic Signal Standards Aluminum 15-FT Black, Item SPV.0060.0107; Luminaire Arms Single Member 4-Inch Clamp 6-FT Black, Item SPV.0060.0108; Install Poles Type 12 Black, Item SPV.0060.0109; Install Poles Type 13 Black, Item SPV.0060.0110; Install Monotube Arms 40-FT Black, Item SPV.0060.0111; Install Monotube Arms 45-FT Black, Item SPV.0060.0112; Install Monotube Arms 55-FT Black, Item SPV.0060.0113; Install Luminaire Arms Steel 15-FT Black, Item SPV.0060.0114.**

A Description

Work under this specification shall be done in accordance to standard spec 657 and these special provisions.

B Materials

Materials shall be in accordance to standard spec 657.2 except as follows:

Add the following to standard spec 657.2.2.1.1(8):

All aluminum poles shall be anodized and factory painted black. All steel poles shall have a factory powder coated enamel finish that is black. Pedestal bases and transformer bases shall also be factory anodized and factory painted black, matching the color of the poles, after factory anodizing. All equipment shall match the color of department provided monotube poles and arms.

C Construction

Construction shall be in accordance to standard spec 657.3 except as follows:

Add the following to standard spec 657.3.1.1(4):

Touch-up and repair damage to black equipment with matching material. All black equipment, whether Department or Contractor provided, must be touched-up, repaired, and accepted by the Department prior to traffic signal turn-on.

D Measurement

The department will measure all items under this special provision as each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| SPV.0060.0103 | Pedestal Bases Black | Each |
| SPV.0060.0104 | Transformer Bases Breakaway 11 ½-Inch Bolt Circle Black | Each |
| SPV.0060.0105 | Poles Type 3 Black | Each |
| SPV.0060.0106 | Traffic Signal Standards Aluminum 13-FT Black | Each |
| SPV.0060.0107 | Traffic Signal Standards Aluminum 15-FT Black | Each |
| SPV.0060.0108 | Luminaire Arms Single Member 4-Inch Clamp 6-FT Black | Each |
| SPV.0060.0109 | Install Poles Type 12 Black | Each |
| SPV.0060.0110 | Install Poles Type 13 Black | Each |
| SPV.0060.0111 | Install Monotube Arms 40-FT | Each |
| SPV.0060.0112 | Install Monotube Arms 45-FT | Each |
| SPV.0060.0113 | Install Monotube Arms 55-FT | Each |
| SPV.0060.0114 | Install Luminaire Arms Steel 15-FT Black | Each |

Payment shall be in accordance to standard spec 657.5.

28. Luminaires Utility LED C Black, Item SPV.0060.0115.**A Description**

Work under this specification shall be done in accordance to standard spec 659 and these special provisions.

B Materials

Materials shall be in accordance to standard spec 659.2 except as follows:

Add the following to standard spec 659.2(2):

Furnish Luminaires Utility LED C with a factory installed black finish. All other luminaire features must be in accordance with the Department's approved product list.

C Construction

Construction shall be in accordance to standard spec 659.3.

D Measurement

The department will measure Luminaires Utility LED C Black bid items as each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--------------------------------|------|
| SPV.0060.0115 | Luminaires Utility LED C Black | Each |

Payment shall be in accordance to standard spec 659.5.

29. Traffic Signal GPS EVP Detector Cable, Item SPV.0090.3001.

A Description

This special provision describes the transporting and installing of GPS EVP detector cable.

B Materials

Furnish GPS EVP detector cable consisting of 10 (5-pair) AWG #20 (7x28) stranded individually tinned copper color-coded twisted conductors, an aluminized polyester shield, an AWG #22 (7x28) stranded individually tinned copper drain wire, and a black PVC UV and moisture resistant jacket. The cable shall have a 300 volt rating, be rated for 90 degrees C, and be capable of delivering a quality signal from the EVP detector to the cabinet for a distance up to 250-feet.

Furnish all other necessary materials (connectors including wire nuts, splice kits, tape, insulating varnish or sealant) ensuring all materials are in compliance with the WisDOT Qualified Electrical Products List.

C Construction

Construction shall be according to standard spec 655.3.1 and 655.3.10 and the manufacturer specifications.

D Measurement

The department will measure Traffic Signal GPS EVP Detector Cable by the linear foot of cable, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---------------------------------------|------|
| SPV.0090.3001 | Traffic Signal GPS EVP Detector Cable | LF |

Payment is full compensation for furnishing and installing Traffic Signal GPS EVP Detector Cable; for making all connections; for furnishing and installing all connectors, including wire nuts, splice kits, tape, insulating varnish or sealant; and for terminating, testing, and connecting the cables.

30. Signal Mounting Hardware Black STH 31 and STH 165, Item SPV.0105.0100.

A Description

Work under this specification shall be done in accordance to standard spec 658 and these special provisions.

B Materials

Materials shall be in accordance to standard spec 658.2 except as follows:

Add the following to standard spec 658.3.1(7):

All traffic signal mounting hardware, including stainless steel bands and clips, shall have a factory installed black finish.

C Construction

Construction shall be in accordance to standard spec 658.3.

D Measurement

The department will measure Signal Mounting Hardware Black (location) as a single lump sum for each intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| SPV.0105.0100 | Signal Mounting Hardware Black STH 31 and STH 165 | LS |

Payment shall be in accordance to standard spec 658.5.

31. Remove Traffic Signals STH 31 and STH 38, Item SPV.0105.3001; STH 167 and STH 181, Item SPV.0105.3002; STH 31 and STH 165, Item SPV.0105.3003; STH 158 and 68th Avenue, Item SPV.0105.3004.

A Description

This special provision describes removing existing traffic signals according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Notify the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

The department assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working traffic signal equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, will be replaced by the contractor at no cost to the department.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Remove the signal heads, mast arms, luminaires, wiring/cabling, and traffic signal mounting devices from each signal standard, arm or pole. Ensure that all access hand hole doors and all associated hardware remain intact. Dispose of the underground signal cable, internal wires and street lighting cable off the state right-of-way. Deliver the remaining materials to the West Allis Electrical Service Facility at 935 South 60th Street, West Allis, WI. Contact the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to delivery to make arrangements.

DOT forces shall remove the signal cabinet from the footing. The signal cabinet and associated signal cabinet equipment will be removed from the site by DOT forces and will remain the property of the department.

D Measurement

The department will measure Remove Traffic Signals (Location) as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0105.3001 | Remove Traffic Signals STH 31 and STH 38 | LS |
| SPV.0105.3002 | Remove Traffic Signals STH 167 and STH 181 | LS |
| SPV.0105.3003 | Remove Traffic Signals STH 31 and STH 165 | LS |
| SPV.0105.3004 | Remove Traffic Signals STH 158 and 68 th Avenue | LS |

Payment is full compensation for removing and disassembling traffic signals; for scrapping of some materials; for disposing of scrap material; and for delivering the requested materials to the West Allis Electrical Service Facility.

32. Remove Loop Detector Wire and Lead-in Cable STH 31 and STH 38, Item SPV.0105.3011; STH 167 and STH 181, Item SPV.0105.3012; STH 31 and STH 165, Item SPV.0105.3013; STH 158 and 68th Avenue, Item SPV.0105.3014.

A Description

This special provision describes removing loop detector wire and lead-in cable. Removal shall be according to standard spec 204, as shown in the plans, and as hereinafter provided.

B (Vacant)

C Construction

Notify the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to the removal of the loop detector wire and lead-in cable. WisDOT forces shall disconnect the lead-in cable from the cabinet equipment.

Remove and dispose of detector lead-in cable and loop wire for loops as shown on the plans. Detector lead-in cable and loop wire shall become property of the contractor and shall be disposed off of the right-of-way.

D Measurement

The department will measure Remove Loop Detector Wire and Lead-in Cable (Location) as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| SPV.0105.3011 | Remove Loop Detector Wire and Lead-in Cable STH 31 and STH 38 | LS |
| SPV.0105.3012 | Remove Loop Detector Wire and Lead-in Cable STH 167 and STH 181 | LS |
| SPV.0105.3013 | Remove Loop Detector Wire and Lead-in Cable STH 31 and STH 165 | LS |
| SPV.0105.3014 | Remove Loop Detector Wire and Lead-in Cable STH 158 and 68 th Avenue | LS |

Payment is full compensation for removing loop detector wire and lead-in cable; for scrapping of some materials; and for disposing of scrap material.

33. Install State Furnished Traffic Signal Cabinet STH 31 and STH 38, Item SPV.0105.3021; STH 167 and STH 181, Item SPV.0105.3022; STH 31 and STH 165, Item SPV.0105.3023; STH 158 and 68th Avenue, Item SPV.0105.3024.

A Description

This special provision describes the installing of the state furnished Traffic Signal Cabinet for traffic signals.

B Materials

Use materials furnished by the department including: the traffic signal controller and the traffic signal cabinet. The department will provide notification at the preconstruction meeting of the Traffic Signal Cabinet vendor and provide the vendor's contact information.

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials five (5) working days prior to picking up the materials.

Provide all other needed materials in conformance with standard spec 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

Append standard spec 651.3.3 (6) with the following:

Operate the completed traffic signal installation for 30 days consecutively, using the specified signal sequence(s) and all special functions, such as preemption as the plans show or as specified by the engineer.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

Request a signal inspection of the completed signal installation to the engineer at least five working days prior to the time of the requested inspection. The department's Region Electrical personnel will perform the inspection.

Coordinate directly with the department's Traffic Signal Cabinet vendor to schedule the cabinet acceptance testing. Notify the department's Electrical Field Unit at (414) 266-1170 and participate in the acceptance testing. The department has the final determination of the cabinet acceptance testing date and time. The acceptance testing procedures will be provided by the department. The department shall not be responsible for project delays and costs due to the delays of delivery by the vendor or by the failure of the Traffic Signal Cabinet to pass acceptance testing.

D Measurement

The department will measure Install State Furnished Traffic Signal Cabinet (Location) as a single lump sum unit of work, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0105.3021 | Install State Furnished Traffic Signal Cabinet STH 31 and STH 38 | LS |
| SPV.0105.3022 | Install State Furnished Traffic Signal Cabinet STH 167 and STH 181 | LS |
| SPV.0105.3023 | Install State Furnished Traffic Signal Cabinet STH 31 and STH 165 | LS |
| SPV.0105.3024 | Install State Furnished Traffic Signal Cabinet STH 158 and 68 th Avenue | LS |

Payment is full compensation for installing and testing the Traffic Signal Cabinet; for furnishing and installing all other items necessary (such as, wire nuts, splice kits and/or connectors, tape, insulating varnish, ground lug fasteners, etc.) to make the proposed system complete from the source of supply to the most remote unit; and for clean-up and waste disposal.

34. Transporting Signal and Lighting Materials STH 31 and STH 38, Item SPV.0105.3031; STH 167 and STH 181, Item SPV.0105.3032; STH 31 and STH 165, Item SPV.0105.3033; STH 158 and 68th Avenue, Item SPV.0105.3034.

A Description

This special provision describes the transporting of department furnished materials for traffic signals and intersection lighting.

B Materials

Transport materials furnished by the department including: monotube poles, monotube arms, and luminaire arms (to be installed on monotube assemblies).

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials at least five working days prior to picking the materials up.

C (Vacant)**D Measurement**

The department will measure Transporting Signal and Lighting Materials as a single lump sum unit of work, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0105.3031 | Transporting Signal and Lighting Materials STH 31 and STH 38 | LS |
| SPV.0105.3032 | Transporting Signal and Lighting Materials STH 167 and STH 181 | LS |
| SPV.0105.3033 | Transporting Signal and Lighting Materials STH 31 and STH 165 | LS |
| SPV.0105.3034 | Transporting Signal and Lighting Materials STH 158 and 68 th Avenue | LS |

Payment is full compensation for transporting the monotube poles, monotube arms, and luminaire arms (to be installed on monotubes). Installation of these materials is included under a separate pay item.

35. Transporting and Installing State Furnished Radar Detection System STH 31 and STH 38, Item SPV.0105.3041.

A Description

This special provision describes the transporting and installing of department furnished Radar Detection System for installation on monotube poles or arms.

B Materials

Pick up the department furnished Radar System at the department's electrical shop located at 935 South 60th Street, West Allis. Notify the department's electrical field unit (EFU) at (414) 266-1170 to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Coordinate the locations of the radar units with the department's electrical personnel prior to installation. Install the department furnished pole/arm mounting brackets, extension arms (if required), and radar units per manufacturer recommendations. Install the power and communication cables to run continuously (without splices) from the traffic signal cabinet to the radar units plus an additional 16 feet in each pull box and an extra 10-feet in the monotube pole handhole. Terminate the ends of the cables, if required, and make all connections to the radar units. The EFU will install all required cabinet equipment in the traffic signal control cabinet. Make all final cable connections in the traffic signal cabinet.

Mark each end of the lead in the traffic signal cabinet and each cable in the monotube handhole to indicate the equipment label (i.e. RA1, RA2, etc.).

Notify department's Electrical Shop at (414) 266-1170 upon completion of the installation.

The department will provide notification of the radar detection system vendor and provide the vendor's contact information. Coordinate directly with the department's radar detection system vendor to arrange for the vendor to program the radar detection system on-site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with adjusting the radar units during the radar system programming.

D Measurement

The department will measure Transporting and Installing State Furnished Radar Detection System as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0105.3041 | Transporting and Installing State Furnished Radar Detection System STH 31 and STH 38 | LS |

Payment is full compensation for transporting and installing the radar detection system, cable, mounting hardware, and radar units; arranging for and providing programming by the vendor; and for assisting the department and vendor during the radar system programming.

36. Transporting and Installing State Furnished Multi-Sensor Vehicle Detection System STH 167 and STH 181, Item SPV.0105.3051; STH 31 and STH 165, Item SPV.0105.3052.

A Description

This special provision describes the transporting and installing of department furnished Multi-Sensor Detection System for installation on monotube poles or arms.

B Materials

Pick up the department furnished Multi-Sensor Vehicle Detection System at the department's electrical shop located at 935 South 60th Street, West Allis. Notify the department's electrical field unit (EFU) at (414) 266-1170 to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Coordinate the locations of the detector units with the department's electrical personnel prior to installation. Install the department furnished pole/arm mounting brackets, extension arms (if required), and multi-sensor detector units per manufacturer recommendations. Install the power and coaxial cables to run continuously (without splices) from the traffic signal cabinet to the detector units plus an additional 16 feet in each pull box and an extra 10-feet in the monotube pole handhole. Terminate the ends of the cables, if required, and make all connections to the detector units. The EFU will install all required cabinet equipment in the traffic signal control cabinet. Make all final cable connections in the traffic signal cabinet.

Mark each end of the lead in the traffic signal cabinet and each cable in the monotube handhole to indicate the equipment label (i.e. V1, V2, etc.).

Notify department's Electrical Shop at (414) 266-1170 upon completion of the installation.

The department will provide notification of the multi-sensor vehicle detection system vendor and provide the vendor's contact information. Coordinate directly with the department's multi sensor vehicle detection system vendor to arrange for the vendor to program the multi sensor vehicle detection system on-site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with adjusting the detector units during the multi sensor vehicle detection system programming.

D Measurement

The department will measure Transporting and Installing State Furnished Multi-Sensor Vehicle Detection System as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| SPV.0105.3051 | Transporting and Installing State Furnished Multi-Sensor Vehicle Detection System STH 167 and STH 181 | LS |
| SPV.0105.3052 | Transporting and Installing State Furnished Multi-Sensor Vehicle Detection System STH 31 and STH 165 | LS |

Payment is full compensation for transporting and installing the multi-sensor vehicle detection system, cable, mounting hardware, and detection units; arranging for and providing programming by the vendor; and for assisting the department and vendor during the system programming.

37. Transporting and Installing State Furnished Autoscope Video Detection System STH 158 and 68th Avenue, Item SPV.0105.3061.

A Description

This special provision describes the transporting and installing of department furnished Traffic Signal Autoscope Video Detection System on Monotube and Luminaire arms.

B Materials

Pick up all the department furnished Autoscope Video Detection System for all state maintained traffic signals for the project at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical field unit at (414 266-1170) to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Install the Traffic Signal Terra Power Cable 18/3, the camera manufacturer's connector cable whip, pole/arm mounting bracket, extension arm (if required) and camera as shown on the plans (the final determination of location will be made by the department's electrical personnel to ensure best line of sight). The department Electrical Field Unit (EFU) shall install State-furnished Autoscope video detection equipment in the traffic signal control cabinet.

Install the Traffic Signal Terra Power Cable 18/3 to run continuously (without splices) from the traffic signal cabinet plus an additional 10 feet to the handhole or base. Leave 10 feet of cable in each pull box. Install the camera manufacturer's connector cable whip from the camera to the handhole or base.

Mark each end of the lead appropriately to indicate the equipment label (i.e. VID1, VID2, etc.). Splice, solder and shrink wrap the Terra power cable to the camera manufacturer's cable whip. Allow 3 feet of slack on each cable.

Notify department's Electrical Shop at (414) 266-1170 upon completion of the Trombone and Luminaire arm installation of the Traffic Signal Terra Power Cable 18/3, cable whip and camera at each intersection.

The department will provide notification of the video detection system vendor and provide the vendor's contact information. Coordinate directly with the department's video detection system vendor to arrange for the vendor to program the video detection. Notify the department and vendor at least five working days prior to the date of programming.

D Measurement

The department will measure Transporting and Installing State Furnished Autoscope Video Detection System as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0105.3061 | Transporting and Installing State Furnished Autoscope Video Detection System STH 158 and 68 th Avenue | LS |

Payment is full compensation for transporting and installing the Intersection Autoscope Video Detection System, Traffic Signal Terra Power Cable 18/3, cable whips, mounting hardware, and cameras; and for arranging for and providing programming by the vendor.

38. Install State Furnished EVP Detector Heads STH 158 and 68th Avenue, Item SPV.0105.3071.

A Description

This special provision describes the transporting and installing of state furnished Emergency Vehicle Preemption (EVP) Detector Heads and EVP Detector Head Mounting Brackets.

B Materials

Use materials furnished by the department including: Infrared Emergency Vehicle Preemption (EVP) Detector Heads, GPS EVP Detector Head, and EVP Detector Head Mounting Brackets.

Pick up the state furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the state furnished materials at least five working days prior to picking the materials up.

C Construction

Install the EVP detector heads and EVP detector head mounting brackets as shown on the plans. The department will determine the exact location to ensure that the installation does not create a sight obstruction. The department will terminate the EVP cable ends and install the discriminators and card rack in the cabinet.

Notify the department's Electrical shop at (414) 266-1170 upon completion of the installation of the Emergency Vehicle Preemption (EVP) Detector Heads and EVP Detector Head Mounting Brackets.

D Measurement

The department will measure Install State Furnished EVP Detector Heads as a single lump sum unit of work, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| SPV.0105.3071 | Install State Furnished EVP Detector Heads STH 158 and 68 th Avenue | LS |

Payment is full compensation for transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads and EVP Detector head Mounting Brackets.

39. Temporary EVP System STH 158 and 68th Avenue, Item SPV.0105.3081.

A Description

This special provision describes furnishing, installing, and maintaining temporary EVP systems at the temporary signalized intersection as shown in the plans.

B Materials

Furnish an emergency vehicle preemption system compatible with the City of Kenosha systems and users. Both infrared and GPS systems must be installed.

Contact Chase Kuffel from the City of Kenosha department of Public Works (262) 653-4156 for information regarding the equipment needs and operational requirements of the emergency vehicle preemption system within the City of Kenosha jurisdiction.

C Construction

The Temporary EVP System, as shown in the temporary traffic signal plans or as directed by the engineer, shall be complete in place, tested, and in full operation during each stage and sub-stage of construction.

Install the temporary EVP system as shown in the plans and according to the manufacturer's recommendations. Determine a suitable location for the temporary EVP detectors for each stage and sub-stage of construction. Detectors may be mounted on the temporary traffic signal span wire or wood poles. Relocate the temporary EVP detectors to a suitable location if construction activities and/or construction staging changes impede the detector operation. Arrange for testing of equipment prior to acceptance of the installation for each construction stage.

All cables associated with the temporary EVP system shall be routed to the cabinet. Each lead shall be appropriately marked as to which EVP channel it is associated.

Periodic adjustment and/or moving of the temporary EVP detectors may be required due to changes in traffic control, staging, or other construction operations.

Ensure that the temporary EVP system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

Remove the temporary EVP system upon project completion.

Provide the engineer records of all EVP settings used during construction.

D Measurement

The department will measure Temporary EVP System (Location) as a single complete lump sum unit of work per intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|--|------|
| SPV.0105.3081 | Temporary EVP System STH 158 and 68 th Avenue | LS |

Payment is full compensation for furnishing and installing all required equipment, materials, and supplies; for maintaining and changing the EVP detectors to match the plans, traffic control, and construction staging; for relocating the temporary EVP detectors due to construction activities, if required; for testing the EVP system for each stage and sub-stage of construction; for periodically cleaning all temporary EVP detectors; for removing the temporary EVP system; and for cleaning up and properly disposing of waste.

40. Temporary Vehicle Detection System for Intersections STH 31 and STH 38, Item SPV.0105.3091; STH 167 and STH 181, Item SPV.0105.3092; STH 31 and STH 165, Item SPV.0105.3093; STH 158 and 68th Avenue, Item SPV.0105.3094.

A Description

This work shall consist of furnishing, installing, maintaining and placing into operation a temporary non-intrusive vehicle detection system (NIVDS) as shown on the plans, and as directed by the engineer in the field.

B Materials

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway and provides detection outputs to a traffic signal controller. The materials shall also include all brackets, mounting hardware, cable, terminations, interface panels, and all other incidentals for the installation of the non-intrusive vehicle detection equipment. This equipment shall meet the NEMA environmental, power and surge ratings as set forth in NEMA TS2 specifications.

All detection equipment, components, and terminations supplied under this item shall be fully compatible with the temporary traffic signal controller supplied for the project. The system architecture shall fully support Ethernet networking of system components. All required interface equipment needed for transmitting and receiving data shall be provided with the NIVDS.

The NIVDS shall provide flexible detection zone placement anywhere and at any orientation. Preferred detector configurations shall be detection zones placed across lanes of traffic for optimal count accuracy, detection zones placed parallel to lanes of traffic for optimal presence detection accuracy of moving or stopped vehicles. Detection zones shall be able to be overlapped for optimal road coverage.

C Construction

The temporary NIVDS shall be installed by supplier factory-certified installers and as recommended by the supplier and documented in installation materials provided by the supplier.

In the event, at installation or turn on date, a noticeable obstruction is present in line with the detection zone(s), the contractor shall be obligated to advise the engineer before setting the zone.

The non-intrusive vehicle detection system, as shown in the traffic signal construction plans, shall be complete, in place, tested, and in full operation during each stage of construction.

Maintain all temporary vehicle detection zones as the plans show or as the engineer directs. The temporary vehicle detection zones shall be set near the vicinity and with approximate distance from the stop bar as shown on the plans. Check temporary vehicle detection zones every other week and at the opening of each stage of temporary traffic signal operation to ensure that they are working properly and aimed properly. Periodic adjustment of the detection zones and/or moving of the temporary vehicle detection sensors may be required due to changes in traffic control, staging, or other construction operations.

Ensure the non-intrusive vehicle detection system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

D Measurement

The department will measure Temporary Vehicle Detection System for Intersections (Location) as a single complete lump sum unit of work per intersection, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---|------|
| SPV.0105.3091 | Temporary Vehicle Detection System for Intersections STH 31 and STH 38 | LS |
| SPV.0105.3092 | Temporary Vehicle Detection System for Intersections STH 167 and STH 181 | LS |
| SPV.0105.3093 | Temporary Vehicle Detection System for Intersections STH 31 and STH 165 | LS |
| SPV.0105.3094 | Temporary Vehicle Detection System for Intersections STH 158 and 68 th Avenue | LS |

Payment is full compensation for furnishing and installing the temporary non-intrusive vehicle detection system including cabling, mounting brackets, mounting hardware, terminations, interface panels, testing and set up; for periodic checking and resetting of

detection zones; for periodic cleaning for dirt and dust build-up; and for removing all equipment at the completion of the project.

41. Management of Solid Waste, Item SPV.0195.0100.

A General

A.1 Description

This work will conform with the requirements of standard spec 205; to pertinent parts of the Wisconsin Administrative Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500-538, Solid Waste; and as shown on the plans and as supplemented herein.

Historic fill containing solid waste will be encountered within the construction limits. The solid waste contains NR 500 non-exempt industrial wastes including soil mixed with foundry sand and slag. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as petroleum-contaminated soil, common excavation or reused on-site will be managed as solid waste.

This work consists of excavating, segregating, temporary stockpiling, loading, hauling, and disposing of solid waste material at a WDNR-approved disposal facility. The nearest WDNR-approved disposal facilities are:

Kestrel Hawk LF
1989 Oakes Rd.
Racine, WI 53406
Phone (262) 884-7081

WEPCO HWY 32 LF
8719 Douglas Ave.
Caledonia, WI 53108
Phone (414) 221-2206

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use.

A.2 Notice to the Contractor – Solid Waste Locations

The department and others completed hazardous materials assessment for locations within this project where excavation is required. Investigation for soil contamination was conducted at select locations. A soil sample provided in the Phase 2.5 investigation report identified chlorinated volatile organic compound contaminated soil at concentrations exceeding the respective NR 720 RCLs, and warrants landfill disposal. Contaminant impacts include trichloroethene at a concentration of 37 ug/kg. The WDNR concurs that these soils are appropriately field screened, segregated, and managed for landfill disposal. The specific landfill remediation area is:

- Northeast corner of the STH 31 and STH 38 intersection, Station 653+15 to 653+45, 30 to 60 feet left of reference line, approximately 0 to 16 feet below ground surface, estimated 60 cubic yards/100 tons.

Directly load solid waste excavated by the project at the above location into trucks that will transport the material to a WDNR-licensed landfill facility for landfill disposal.

If obviously contaminated soils or other signs of NR 500 non-exempt solid waste and hazardous materials are unexpectedly encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

No active groundwater monitoring wells were observed within the construction limits. If active groundwater monitoring wells are encountered during construction, notify the engineer and protect them to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

A.3 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

Name: Andrew Malsom
 Address: 141 NW Barstow Street, Waukesha, WI 53187-0798
 Phone: (262) 548-6705
 Fax: (262) 548-6891
 E-mail: andrew.malsom@dot.state.wi.us

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
 Address: 150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
 Contact: Bryan Bergmann, P.G.
 Phone: (262) 879-1212
 Fax: (262) 879-1220
 E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of solid waste to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying soils to be hauled to the landfill facility;
3. Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste fill described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste, and provide this information to the environmental consultant no later than 15 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation in the impacted areas. Notify the environmental consultant at least three calendar days prior to commencement of excavation in the impacted areas. Perform excavation in the impacted areas on a continuous basis until excavation work is completed. Do not transport soil containing solid waste offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements

Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter historic fill contaminated with industrial wastes (foundry sand and slag) and associated regulated metals and organic compounds. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each impacted area as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Control operations in the impacted areas to minimize the quantity of soil excavated.

The environmental consultant will periodically monitor soil excavated from the areas identified in A.2 above. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul solid waste designated by the environmental consultant for offsite disposal to the WDNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of the material. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids.

Verify that the vehicles used to transport material are licensed for such activity according to applicable state and federal regulations. Obtain the necessary disposal facility approvals and WDNR approvals for disposal. Do not transport regulated solid waste off-site without obtaining the approval of the environmental consultant and engineer and notifying the disposal facility.

During excavations in the areas of known contamination, larger chunks of clean concrete (~2 cubic feet), asphalt and bricks will be segregated from the fill, to the extent practical and managed as common excavation. Under NR 500.08 this material is exempt from licensing and requirements of Wisconsin Administrative Code NR 500-538 of the solid waste regulations, and will be reused as designated by the engineer as fill on the project, or it will be disposed of off-site at the contractor's disposal site(s).

If dewatering is required in an area of known contamination, water generated from dewatering activities may contain low-concentrations of petroleum compounds and metals. Based on the limited groundwater testing performed in the Phase 2.5 investigation, the water generated may meet the effluent limits specified in "Contaminated Groundwater from Remedial Action Operations" (WPDES Permit No. WI-0046566-5), Table 3.1 once standard construction sediment removal is employed. Notify the engineer of any dewatering activities, and obtain any permits necessary to discharge water. Provide copies of such Permit to the engineer. Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

Costs associated with excavation dewatering in the contaminated areas are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of petroleum-contaminated soil and regulated solid waste from this construction project.

D Measurement

The department will measure Management of Solid Waste by the ton of soil or waste accepted by the disposal facility and as documented by weight tickets.

E Payment

The department will pay for measured quantities at the contract unit price under the following item:

| ITEM NUMBER | DESCRIPTION | UNIT |
|---------------|---------------------------|------|
| SPV.0195.0100 | Management of Solid Waste | Ton |

Payment is full compensation for excavating, segregating, loading, hauling, and landfill disposal of solid waste; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

550.5.2 Piling

Add the following as paragraph three effective with the December 2015 letting:

- (3) The department will not entertain a change order request for a differing site condition under 104.2.2.2 or for a quantity change under 104.2.2.4.3 for the Piling bid items. Instead the department will adjust pay under the Piling Quantity Variation administrative item if the total driven length of each size is less than 85 percent of, or more than 115 percent of the contract quantity as follows:

| Percent of Contract Length Driven | Pay Adjustment |
|-----------------------------------|--|
| < 85 | (85% contract length - driven length) x 20% unit price |
| > 115 | (driven length - 115% contract length) x 5% unit price |

643.2.1 General

Replace paragraph two with the following effective with the December 2015 letting:

- (2) Use reflective sheeting from the department's approved products list on barricades, drums, and flexible tubular marker posts.

Errata

Make the following corrections to the standard specifications:

641.2.9 Overhead Sign Supports

Correct errata adding back accidentally deleted paragraphs one through three.

- (1) Provide commercially fabricated overhead sign supports conforming to AASHTO design and fabrication standards for structural supports for highway signs, luminaires, and traffic signals. Use a design life of 50 years with a wind importance factor of 1.00. Design to withstand a 3 second gust wind speed of 90 mph. Do not use the methods of appendix C of those AASHTO standards.
- (2) Design structures, listed as applicable structure types in the AASHTO standards, to the fatigue category criteria as follows:
 1. Structures carrying variable message signs:
 - Category I criteria for structures over all roadway types.
 2. Structures carrying type II or III signs:
 - Category I criteria for structures used over highways and free flow ramps.
 - Category II criteria for structures with arms greater than 30 feet used over local roads and city streets.
 - Category III criteria for structures with arms 30 feet or less used over local roads and city streets.
- (3) Use the posted speed limit of the roadway beneath the structure for truck-induced gusts.
- (4) Submit shop drawings identified by structure number, design computations, and material specifications, to the engineer before erecting sign supports. Provide tightening procedures for mast arm or luminaire arm to pole shaft connections on the shop drawings. Have a professional engineer registered in the state of Wisconsin sign, seal, and date the shop drawings and certify that the design conforms to AASHTO standards and the contract.
- (5) Provide steel pole shafts and mast arms zinc coated according to ASTM A123. Provide tapered pole and arm shafts with a minimum taper of 0.14 inch per foot for single-member vertical and single-member horizontal structure components. Provide bolts and other hardware conforming to 641.2.2.

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to submit certified payrolls electronically. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

<http://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>

(2) Ensure that all tiers of subcontractors, as well as all trucking firms, submit their weekly certified payrolls electronically through CRCS. These payrolls are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin payrolls. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Tess Mulrooney at 608-267-4489 to schedule the training.

(4) The department will reject all paper submittals of forms DT-1816 and DT-1929 for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll data from their computer system into CRCS should have their payroll coordinator send several sample electronic files to Tess two months before a payroll needs to be submitted. Not every contractor's payroll system is capable of producing export files. For details, see pages 17-22 of the CRCS System Background Information manual available online on the Labor, Wages, and EEO Information page at:

<http://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>

Effective August 2015 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<http://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<http://wisconsindot.gov/rdwy/worksheets/ws4567.doc>

Effective with September 2004 Letting

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS AND TRANSPORTATION FACILITIES**

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

- I. Wage Rates, Hours of labor and payment of Wages
- II. Payroll Requirements
- III. Postings at the Site of the Work
- IV. Affidavits
- V. Wage Rate Redistribution
- VI. Additional Classifications

I. WAGE RATES, HOURS OF LABOR AND PAYMENT OF WAGES

The schedule of "Minimum Wage Rates" attached hereto and made a part hereof furnishes the prevailing wage rates that have been determined pursuant to Section 103.50 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the various laborers, workers, mechanics and truck drivers employed by contractors and subcontractors on the construction work embraced by the contract and subject to prevailing hours and wages under Section 103.50, Stats. If necessary to employ laborers, workers, mechanics or truck drivers whose classification is not listed on the schedule, they shall be paid at rates conformable to those listed for similar classifications. Apprentices shall be paid at rates not less than those prescribed in their state indenture contracts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

Pursuant to Section 103.50 of the Wisconsin Statutes, the prevailing hours of labor have been determined to be up to 10 hours per day and 40 hours per calendar week Monday through Friday. If any laborer, worker, mechanic or truck driver is permitted or required to work more than the prevailing number of hours per day or per calendar week on this contract, they shall be paid for all hours in excess of the prevailing hours at a rate of at least one and one-half (1 1/2) times their hourly rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half: (1) January 1, (2) the last Monday in May, (3) July 4, (4) the first Monday in September, (5) the fourth Thursday in November, (6) December 25, (7) the day before if January 1, July 4 or December 25 falls on a Saturday and (8) the day following if January 1, July 4 or December 25 falls on a Sunday.

All laborers, workers, mechanics and truck drivers shall be paid unconditionally not less often than once a week. Persons who own and operate their own trucks must receive the prevailing truck driver rate for the applicable type of truck (i.e. 2 axle, 3 or more axle, articulated, eculid or dumptor) he or she operates, plus an agreed upon amount for the use of his or her truck. Every owner-operator MUST be paid separately for their driving and for the use of their truck.

For those projects subject to the requirements of the Davis-Bacon Act, the Secretary of Labor will also have determined "Minimum Wage Rates" for work to be performed under the contract. These rates are, for all or most of the labor, worker, mechanic or truck driver classifications, identical to those established under Section 103.50 of the Wisconsin Statutes. In the event the rates are not identical, the higher of the two rates will govern.

II. PAYROLL REQUIREMENTS

All contractors and subcontractors must submit weekly Certified Payrolls and Compliance Statement verifying that all laborers, workers, mechanics and truck drivers working on the project have been paid the prevailing wage rates for all work performed under the contract required by Section 103.50 of the Wisconsin Statutes.

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the Department, the contractor shall post the following in at least one conspicuous place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 103.50 of the Wisconsin Statutes.
- b. A copy of the State of Wisconsin Minimum Wages Rates. (Four pages.)
- c. A copy of the contractor's Equal Employment Opportunity Policy.
- d. On any project involving federal aid, in addition to the furnished postings, the contractor shall post a copy of the "Davis-Bacon Act, Minimum Wage Rates". (Three pages.)

IV. WAGE RATE REDISTRIBUTION

The amount specified as the hourly basic rate of pay and the amount(s) specified as the fringe benefit contribution(s), for all classes of laborers, workers, mechanics or truck drivers may be redistributed, when necessary, to conform to those specified in any applicable collective bargaining agreement, provided that both parties to such agreement

request and receive the approval for any such redistribution from both the Department of Transportation and the Department of Workforce Development prior to the implementation of such redistribution.

V. ADDITIONAL CLASSIFICATIONS

Any unlisted laborer or mechanic classification that is needed to perform work on this project, and is not included within the scope of any of the classifications listed in the application prevailing wage rate determination, may be added after award only if all of the following criteria have been met:

1. The affected employer(s) must make a written request to WisDOT Central Office to utilize the unlisted classification on this project.
2. The request must indicate the scope of the work to be performed by the unlisted classification and must indicate the proposed wage/fringe benefit package that the unlisted classification is to receive.
3. The work to be performed by the unlisted classification must not be performed by a classification that is included in the applicable prevailing wage rate determination.
4. The unlisted classification must be commonly employed in the area where the project is located.
5. The proposed wage/fringe benefit package must bear a reasonable relationship to those set forth in the applicable prevailing wage rate determination.
6. The request should be made prior to the actual performance of the work by the unlisted classification.
7. DWD must approve the use of the unlisted classification and the proposed wage/fringe benefit package. USDOL also must approve the use of the unlisted classification and the proposed wage/fringe benefit package on federal aid projects.
8. WisDOT and DWD may amend the proposed wage/fringe benefit package, as deemed necessary, and may set forth specific employment ratios and scope of work requirements in the approval document.

The approved wage/fringe benefit package shall be paid to all laborers, workers, mechanics or truck drivers performing work within the scope of that performed by the unlisted classification, from the first day on which such work is performed. In the event that work is performed by the unlisted classification prior to approval, the wage/fringe benefit package to be paid for such work must be in conformance with the wage/fringe

benefit package approved for such work. Under this arrangement a retroactive adjustment in wages and/or fringe benefits may be required to be made to the affected laborers, workers, mechanics or truck drivers by the affected employer(s).

**ANNUAL PREVAILING WAGE RATE DETERMINATION
FOR ALL STATE HIGHWAY PROJECTS
KENOSHA COUNTY**

Compiled by the State of Wisconsin - Department of Workforce Development
for the Department of Transportation
Pursuant to s. 103.50, Stats.
Issued on May 1, 2015

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions regarding the proper trade or classification to be used for any worker on a public works project.

OVERTIME: Time and one-half must be paid for all hours worked over 10 hours per day and 40 hours per calendar week and for all hours worked on Saturday, Sunday and the following six (6) 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.

FUTURE INCREASE: If indicated for a specific trade or occupation, the full amount of such increase MUST be added to the "TOTAL" indicated for such trade or occupation on the date(s) such increase(s) becomes effective.

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, whenever such pay is applicable.

SUBJOURNEY: Wage rates may be available for some of the classifications indicated below. Any employer that desires to use any subjourney classification on a project MUST request the applicable wage rate from the Department of Workforce Development PRIOR to the date such classification is used on such project. Form ERD-10880 is available for this purpose and can be obtained by writing to the Department of Workforce Development, Equal Rights Division, P.O. Box 8928, Madison, WI 53708.

| <u>TRADE OR OCCUPATION</u> | <u>HOURLY BASIC RATE OF PAY</u> | <u>HOURLY FRINGE BENEFITS</u> | <u>TOTAL</u> |
|---|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| Bricklayer, Blocklayer or Stonemason | 35.10 | 18.39 | 53.49 |
| Carpenter | 33.68 | 19.99 | 53.67 |
| Cement Finisher | 30.49 | 21.47 | 51.96 |
| Future Increase(s): Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. | | | |
| Premium Pay: 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. | | | |
| Electrician | 33.93 | 22.77 | 56.70 |
| Premium Pay: 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. | | | |
| Fence Erector | 23.73 | 19.09 | 42.82 |
| Ironworker | 30.77 | 23.97 | 54.74 |
| Premium Pay: 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. | | | |
| Line Constructor (Electrical) | 39.50 | 14.85 | 54.35 |
| Painter | 29.22 | 16.69 | 45.91 |
| Pavement Marking Operator | 31.30 | 17.04 | 48.34 |
| Piledriver | 30.11 | 26.51 | 56.62 |
| Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.60/hr on 6/1/2016. | | | |
| Premium Pay: Add \$.65/hr for Piledriver Loftsmen; Add \$.75/hr for Sheet Piling Loftsmen. DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. | | | |
| Roofer or Waterproofing | 29.40 | 17.05 | 46.45 |
| Teledata Technician or Installer | 24.89 | 17.15 | 42.04 |
| Tuckpointer, Caulker or Cleaner | 35.10 | 18.39 | 53.49 |

| TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
|--|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| Underwater Diver (Except on Great Lakes) | 35.40 | 15.90 | 51.30 |
| Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY | 35.55 | 15.57 | 51.12 |
| Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY | 31.60 | 15.19 | 46.79 |
| Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 27.65 | 13.44 | 41.09 |
| Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY | 25.68 | 12.83 | 38.51 |
| Groundman - ELECTRICAL LINE CONSTRUCTION ONLY | 21.75 | 11.63 | 33.38 |

TRUCK DRIVERS

| | | | |
|---|-------|-------|-------|
| Single Axle or Two Axle | 25.18 | 18.31 | 43.49 |
| Future Increase(s): Add \$1.15/hr on 6/1/2015. Premium Pay: 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. | | | |
| Three or More Axle | 35.72 | 20.40 | 56.12 |
| Articulated, Euclid, Dumptor, Off Road Material Hauler | 30.27 | 21.15 | 51.42 |
| Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | | | |
| Pavement Marking Vehicle | 23.16 | 17.13 | 40.29 |
| Shadow or Pilot Vehicle | 24.37 | 17.77 | 42.14 |
| Truck Mechanic | 35.72 | 20.40 | 56.12 |

LABORERS

| | | | |
|--|-------|-------|-------|
| General Laborer | 26.12 | 20.03 | 46.15 |
| Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Pay: Add \$.10/hr for topman; Add \$.15/hr for air tool operator, joint sawer and filler (pavement), vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.26/hr for bottomman; Add \$.35/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement), strike off man; Add \$.32/hr for and line and grade specialist; Add \$.65/hr for blaster and powderman; Add \$.75/hr for pipelayer. / 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). | | | |
| Asbestos Abatement Worker | 22.05 | 18.41 | 40.46 |
| Landscaper | 26.12 | 20.03 | 46.15 |
| Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Pay: 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). | | | |
| Flagperson or Traffic Control Person | 26.76 | 15.14 | 41.90 |
| Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Pay: 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 | | | |

| TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
|---|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| 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. | | | |
| Fiber Optic Laborer (Outside, Other Than Concrete Encased) | 17.71 | 16.01 | 33.72 |
| Railroad Track Laborer | 15.00 | 2.89 | 17.89 |

HEAVY EQUIPMENT OPERATORS

| | | | |
|---|-------|-------|-------|
| 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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | 37.72 | 21.15 | 58.87 |
| Backhoe (Track Type) Having a Mfr.'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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | 37.22 | 21.15 | 58.37 |
| Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfr.'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 | 36.72 | 21.15 | 57.87 |

| TRADE OR OCCUPATION | HOURLY BASIC RATE OF PAY | HOURLY FRINGE BENEFITS | TOTAL |
|--|---|---------------------------------------|--------------|
| | \$ | \$ | \$ |
| 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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | | | |
| 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 Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | 36.46 | 21.15 | 57.61 |
| 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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm . | 36.17 | 21.15 | 57.32 |
| Fiber Optic Cable Equipment. | 28.89 | 17.95 | 46.84 |
| Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer. | 41.65 | 21.71 | 63.36 |
| 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. | 41.65 | 21.71 | 63.36 |
| 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. | 35.72 | 17.85 | 53.57 |
| 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. | 35.46 | 20.40 | 55.86 |

| <u>TRADE OR OCCUPATION</u> | <u>HOURLY BASIC RATE OF PAY</u> | <u>HOURLY FRINGE BENEFITS</u> | <u>TOTAL</u> |
|----------------------------|---|---------------------------------------|--------------|
| ----- | \$----- | \$----- | \$----- |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209014PROJECT(S):
3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|---------------------|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |

SECTION 0001 Traffic Signals

| | | | | | | |
|------|--|-----------------|---|--|---|--|
| 0010 | 204.0155 Removing Concrete Sidewalk | 1,035.000 SY | . | | . | |
| 0020 | 204.0195 Removing Concrete Bases | 49.000 EACH | . | | . | |
| 0030 | 305.0120 Base Aggregate Dense 1 1/4-Inch | 169.000 TON | . | | . | |
| 0040 | 602.0410 Concrete Sidewalk 5-Inch | 9,127.000 SF | . | | . | |
| 0050 | 602.0505 Curb Ramp Detectable Warning Field Yellow | 96.000 SF | . | | . | |
| 0060 | 619.1000 Mobilization | 1.000 EACH | . | | . | |
| 0070 | 624.0100 Water | 2.000 MGAL | . | | . | |
| 0080 | 625.0500 Salvaged Topsoil | 240.000 SY | . | | . | |
| 0090 | 628.1504 Silt Fence | 100.000 LF | . | | . | |
| 0100 | 628.1520 Silt Fence Maintenance | 100.000 LF | . | | . | |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209014PROJECT(S):
3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0110 | 628.1905 Mobilizations Erosion Control | 4.000 EACH | . | | . | |
| 0120 | 628.1910 Mobilizations Emergency Erosion Control | 4.000 EACH | . | | . | |
| 0130 | 628.2023 Erosion Mat Class II Type B | 48.000 SY | . | | . | |
| 0140 | 628.7015 Inlet Protection Type C | 31.000 EACH | . | | . | |
| 0150 | 628.7504 Temporary Ditch Checks | 20.000 LF | . | | . | |
| 0160 | 628.7570 Rock Bags | 6.000 EACH | . | | . | |
| 0170 | 629.0210 Fertilizer Type B | 0.140 CWT | . | | . | |
| 0180 | 630.0130 Seeding Mixture No. 30 | 8.000 LB | . | | . | |
| 0190 | 634.0616 Posts Wood 4x6-Inch X 16-FT | 25.000 EACH | . | | . | |
| 0200 | 634.0618 Posts Wood 4x6-Inch X 18-FT | 31.000 EACH | . | | . | |
| 0210 | 637.2210 Signs Type II Reflective H | 1,024.750 SF | . | | . | |

SCHEDULE OF ITEMS

REVISED:

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CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0220 | 637.2215 Signs Type II Reflective H Folding | 82.060 SF | . | | . | |
| 0230 | 637.2230 Signs Type II Reflective F | 47.380 SF | . | | . | |
| 0240 | 638.2102 Moving Signs Type II | 32.000 EACH | . | | . | |
| 0250 | 638.2602 Removing Signs Type II | 67.000 EACH | . | | . | |
| 0260 | 638.3000 Removing Small Sign Supports | 35.000 EACH | . | | . | |
| 0270 | 643.0200 Traffic Control Surveillance and Maintenance (project) 0001. 3700-20-73 | 128.000 DAY | . | | . | |
| 0280 | 643.0300 Traffic Control Drums | 12,560.000 DAY | . | | . | |
| 0290 | 643.0420 Traffic Control Barricades Type III | 1,600.000 DAY | . | | . | |
| 0300 | 643.0705 Traffic Control Warning Lights Type A | 15,360.000 DAY | . | | . | |
| 0310 | 643.0800 Traffic Control Arrow Boards | 640.000 DAY | . | | . | |
| 0320 | 643.0900 Traffic Control Signs | 3,216.000 DAY | . | | . | |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209014PROJECT(S):
3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0330 | 650.8500 Construction Staking Electrical Installations (project) 0001. 3700-20-73 | LUMP | LUMP | | | . |
| 0340 | 650.9910 Construction Staking Supplemental Control (project) 0001. 3700-20-73 | LUMP | LUMP | | | . |
| 0350 | 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch | 1,013.000 LF | | . | | . |
| 0360 | 652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch | 1,993.000 LF | | . | | . |
| 0370 | 652.0615 Conduit Special 3-Inch | 4,294.000 LF | | . | | . |
| 0380 | 652.0700.S Install Conduit into Existing Item | 4.000 EACH | | . | | . |
| 0390 | 653.0135 Pull Boxes Steel 24x36-Inch | 4.000 EACH | | . | | . |
| 0400 | 653.0140 Pull Boxes Steel 24x42-Inch | 57.000 EACH | | . | | . |
| 0410 | 653.0905 Removing Pull Boxes | 72.000 EACH | | . | | . |
| 0420 | 654.0101 Concrete Bases Type 1 | 20.000 EACH | | . | | . |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0430 | 654.0102 Concrete Bases Type 2 | 10.000 EACH | . | | . | |
| 0440 | 654.0105 Concrete Bases Type 5 | 4.000 EACH | . | | . | |
| 0450 | 654.0110 Concrete Bases Type 10 | 4.000 EACH | . | | . | |
| 0460 | 654.0113 Concrete Bases Type 13 | 12.000 EACH | . | | . | |
| 0470 | 654.0217 Concrete Control Cabinet Bases Type 9 Special | 4.000 EACH | . | | . | |
| 0480 | 655.0230 Cable Traffic Signal 5-14 AWG | 2,429.000 LF | . | | . | |
| 0490 | 655.0240 Cable Traffic Signal 7-14 AWG | 2,226.000 LF | . | | . | |
| 0500 | 655.0260 Cable Traffic Signal 12-14 AWG | 9,794.000 LF | . | | . | |
| 0510 | 655.0270 Cable Traffic Signal 15-14 AWG | 2,146.000 LF | . | | . | |
| 0520 | 655.0320 Cable Type UF 2-10 AWG Grounded | 4,700.000 LF | . | | . | |
| 0530 | 655.0515 Electrical Wire Traffic Signals 10 AWG | 11,049.000 LF | . | | . | |

SCHEDULE OF ITEMS

REVISED:

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3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0540 | 655.0615 Electrical Wire Lighting 10 AWG | 3,672.000 LF | . | | . | |
| 0550 | 655.0700 Loop Detector Lead In Cable | 4,270.000 LF | . | | . | |
| 0560 | 655.0800 Loop Detector Wire | 1,046.000 LF | . | | . | |
| 0570 | 655.0900 Traffic Signal EVP Detector Cable | 1,034.000 LF | . | | . | |
| 0580 | 656.0200 Electrical Service Meter Breaker Pedestal (location) 3001. STH 31 & STH 38 | LUMP | LUMP | | . | |
| 0590 | 656.0200 Electrical Service Meter Breaker Pedestal (location) 3002. STH 167 & STH 181 | LUMP | LUMP | | . | |
| 0600 | 656.0200 Electrical Service Meter Breaker Pedestal (location) 3003. STH 31 & STH 165 | LUMP | LUMP | | . | |
| 0610 | 656.0200 Electrical Service Meter Breaker Pedestal (location) 3004. STH 158 & 68th Ave | LUMP | LUMP | | . | |
| 0620 | 657.0100 Pedestal Bases | 16.000 EACH | . | | . | |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209014PROJECT(S):
3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0630 | 657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle | 12.000 EACH | . | | . | |
| 0640 | 657.0310 Poles Type 3 | 8.000 EACH | . | | . | |
| 0650 | 657.0322 Poles Type 5-Aluminum | 4.000 EACH | . | | . | |
| 0660 | 657.0420 Traffic Signal Standards Aluminum 13-FT | 1.000 EACH | . | | . | |
| 0670 | 657.0425 Traffic Signal Standards Aluminum 15-FT | 11.000 EACH | . | | . | |
| 0680 | 657.0430 Traffic Signal Standards Aluminum 10-FT | 4.000 EACH | . | | . | |
| 0690 | 657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT | 16.000 EACH | . | | . | |
| 0700 | 657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT | 4.000 EACH | . | | . | |
| 0710 | 657.1345 Install Poles Type 9 | 4.000 EACH | . | | . | |
| 0720 | 657.1355 Install Poles Type 12 | 4.000 EACH | . | | . | |
| 0730 | 657.1360 Install Poles Type 13 | 4.000 EACH | . | | . | |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209014PROJECT(S):
3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0740 | 657.1525 Install Monotube Arms 25-FT | 3.000 EACH | . | | . | |
| 0750 | 657.1530 Install Monotube Arms 30-FT | 1.000 EACH | . | | . | |
| 0760 | 657.1535 Install Monotube Arms 35-FT | 3.000 EACH | . | | . | |
| 0770 | 657.1540 Install Monotube Arms 40-FT | 1.000 EACH | . | | . | |
| 0780 | 657.1545 Install Monotube Arms 45-FT | 4.000 EACH | . | | . | |
| 0790 | 657.1815 Install Luminaire Arms Steel 15-FT | 4.000 EACH | . | | . | |
| 0800 | 658.0110 Traffic Signal Face 3-12 Inch Vertical | 39.000 EACH | . | | . | |
| 0810 | 658.0115 Traffic Signal Face 4-12 Inch Vertical | 22.000 EACH | . | | . | |
| 0820 | 658.0215 Backplates Signal Face 3 Section 12-Inch | 53.000 EACH | . | | . | |
| 0830 | 658.0220 Backplates Signal Face 4 Section 12-Inch | 28.000 EACH | . | | . | |
| 0840 | 658.0416 Pedestrian Signal Face 16-Inch | 16.000 EACH | . | | . | |

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160209014PROJECT(S):
3700-20-73FEDERAL ID(S):
N/A

CONTRACTOR : _____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE | | BID AMOUNT | |
|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0850 | 658.0500 Pedestrian Push Buttons | 16.000 EACH | . | | . | |
| 0860 | 658.0600 Led Modules 12-Inch Red Ball | 49.000 EACH | . | | . | |
| 0870 | 658.0605 Led Modules 12-Inch Yellow Ball | 49.000 EACH | . | | . | |
| 0880 | 658.0610 Led Modules 12-Inch Green Ball | 49.000 EACH | . | | . | |
| 0890 | 658.0615 Led Modules 12-Inch Red Arrow | 32.000 EACH | . | | . | |
| 0900 | 658.0620 Led Modules 12-Inch Yellow Arrow | 60.000 EACH | . | | . | |
| 0910 | 658.0625 Led Modules 12-Inch Green Arrow | 32.000 EACH | . | | . | |
| 0920 | 658.0635 Led Modules Pedestrian Countdown Timer 16-Inch | 16.000 EACH | . | | . | |
| 0930 | 658.5069 Signal Mounting Hardware (location) 3001. STH 31 & STH 38 | LUMP | LUMP | | . | |
| 0940 | 658.5069 Signal Mounting Hardware (location) 3002. STH 167 & STH 181 | LUMP | LUMP | | . | |
| 0950 | 658.5069 Signal Mounting Hardware (location) 3004. STH 158 & 68th Ave | LUMP | LUMP | | . | |

SCHEDULE OF ITEMS

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3700-20-73FEDERAL ID(S):
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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 0960 | 659.1125 Luminaires Utility LED C | 24.000 EACH | . | | . | |
| 0970 | 661.0200 Temporary Traffic Signals for Intersections (location) 3001. STH 31 & STH 38 | LUMP | LUMP | | . | |
| 0980 | 661.0200 Temporary Traffic Signals for Intersections (location) 3002. STH 167 & STH 181 | LUMP | LUMP | | . | |
| 0990 | 661.0200 Temporary Traffic Signals for Intersections (location) 3003. STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1000 | 661.0200 Temporary Traffic Signals for Intersections (location) 3004. STH 158 & 68th Ave | LUMP | LUMP | | . | |
| 1010 | 661.0300 Generators | 8.000 DAY | . | | . | |
| 1020 | 690.0250 Sawing Concrete | 163.000 LF | . | | . | |
| 1030 | SPV.0060 Special 0101. Traffic Signal Face 3-12 Inch Vertical Black | 14.000 EACH | . | | . | |
| 1040 | SPV.0060 Special 0102. Traffic Signal Face 4-12 Inch Vertical Black | 6.000 EACH | . | | . | |
| 1050 | SPV.0060 Special 0103. Pedestal Bases Black | 4.000 EACH | . | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1060 | SPV.0060 Special 0104. Transformer Bases Breakaway 11 1/2 -Inch Bolt Circle Black | 2.000 EACH | . | | . | |
| 1070 | SPV.0060 Special 0105. Poles Type 3 Black | 2.000 EACH | . | | . | |
| 1080 | SPV.0060 Special 0106. Traffic Signal Standards Aluminum 13-FT Black | 1.000 EACH | . | | . | |
| 1090 | SPV.0060 Special 0107. Traffic Signal Standards Aluminum 15-FT Black | 3.000 EACH | . | | . | |
| 1100 | SPV.0060 Special 0108. Luminaire Arms Single Member 4-Inch Clamp 6-FT Black | 4.000 EACH | . | | . | |
| 1110 | SPV.0060 Special 0109. Install Poles Type 12 Black | 2.000 EACH | . | | . | |
| 1120 | SPV.0060 Special 0110. Install Poles Type 13 Black | 2.000 EACH | . | | . | |
| 1130 | SPV.0060 Special 0111. Install Monotube Arms 40-FT Black | 2.000 EACH | . | | . | |
| 1140 | SPV.0060 Special 0112. Install Monotube Arms 45-FT Black | 1.000 EACH | . | | . | |
| 1150 | SPV.0060 Special 0113. Install Monotube Arms 55-FT Black | 1.000 EACH | . | | . | |

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|------------|---|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1160 | SPV.0060 Special 0114. Install Luminaire Arms Steel 15-FT Black | 2.000 EACH | . | | . | |
| 1170 | SPV.0060 Special 0115. Luminaires Utility LED C Black | 6.000 EACH | . | | . | |
| 1180 | SPV.0090 Special 3001. Traffic Signal GPS EVP Detector Cable | 130.000 LF | . | | . | |
| 1190 | SPV.0105 Special 0100. Signal Mounting Hardware Black STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1200 | SPV.0105 Special 3001. Remove Traffic Signals STH 31 & STH 38 | LUMP | LUMP | | . | |
| 1210 | SPV.0105 Special 3002. Remove Traffic Signals STH 167 & STH 181 | LUMP | LUMP | | . | |
| 1220 | SPV.0105 Special 3003. Remove Traffic Signals STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1230 | SPV.0105 Special 3004. Remove Traffic Signals STH 158 & 68th Avenue | LUMP | LUMP | | . | |
| 1240 | SPV.0105 Special 3011. Remove Loop Detector Wire and Lead-in Cable STH 31 & STH 38 | LUMP | LUMP | | . | |
| 1250 | SPV.0105 Special 3012. Remove Loop Detector Wire and Lead-in Cable STH 167 & STH 181 | LUMP | LUMP | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1260 | SPV.0105 Special 3013. Remove Loop Detector Wire and Lead-in Cable STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1270 | SPV.0105 Special 3014. Remove Loop Detector Wire and Lead-in Cable STH 158 & 68th Avenue | LUMP | LUMP | | . | |
| 1280 | SPV.0105 Special 3021. Install State Furnished Traffic Signal Cabinet STH 31 & STH 38 | LUMP | LUMP | | . | |
| 1290 | SPV.0105 Special 3022. Install State Furnished Traffic Signal Cabinet STH 167 & STH 181 | LUMP | LUMP | | . | |
| 1300 | SPV.0105 Special 3023. Install State Furnished Traffic Signal Cabinet STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1310 | SPV.0105 Special 3024. Install State Furnished Traffic Signal Cabinet STH 158 & 68th Avenue | LUMP | LUMP | | . | |
| 1320 | SPV.0105 Special 3031. Transporting Signal and Lighting Materials STH 31 & STH 38 | LUMP | LUMP | | . | |
| 1330 | SPV.0105 Special 3032. Transporting Signal and Lighting Materials STH 167 & STH 181 | LUMP | LUMP | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1340 | SPV.0105 Special 3033. Transporting Signal and Lighting Materials STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1350 | SPV.0105 Special 3034. Transporting Signal and Lighting Materials STH 158 & 68th Avenue | LUMP | LUMP | | . | |
| 1360 | SPV.0105 Special 3041. Transport and Install State Furn Radar Detection System STH 31 & STH 38 | LUMP | LUMP | | . | |
| 1370 | SPV.0105 Special 3051. Transp and Inst State Furn Multi- Sensor Veh Detect Sys STH 167 & STH 181 | LUMP | LUMP | | . | |
| 1380 | SPV.0105 Special 3052. Transp and Inst State Furn Multi- Sensor Veh Detect Sys STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1390 | SPV.0105 Special 3061. Transp and Inst State Furn Autoscp Vid Detect Sys STH 158 & 68th Ave | LUMP | LUMP | | . | |
| 1400 | SPV.0105 Special 3071. Install State Furnished EVP Detector Heads STH 158 & 68th Avenue | LUMP | LUMP | | . | |
| 1410 | SPV.0105 Special 3081. Temporary EVP System STH 158 & 68th Avenue | LUMP | LUMP | | . | |

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|------------|--|----------------------------------|------------|-----|------------|-----|
| | | | DOLLARS | CTS | DOLLARS | CTS |
| 1420 | SPV.0105 Special 3091. Temporary Vehicle Detection System for Intersection STH 31 & STH 38 | LUMP | LUMP | | . | |
| 1430 | SPV.0105 Special 3092. Temporary Vehicle Detection System for Intersection STH 167 & STH 181 | LUMP | LUMP | | . | |
| 1440 | SPV.0105 Special 3093. Temporary Vehicle Detection System for Intersection STH 31 & STH 165 | LUMP | LUMP | | . | |
| 1450 | SPV.0105 Special 3094. Temporary Vehicle Detection System for Intersection STH 158 & 68th Avenue | LUMP | LUMP | | . | |
| 1460 | SPV.0195 Special 0100. Management of Solid Waste | 100.000 TON | . | | . | |
| | SECTION 0001 TOTAL | | | | . | |
| | TOTAL BID | | | | . | |

PLEASE ATTACH SCHEDULE OF ITEMS HERE