

# HIGHWAY WORK PROPOSAL

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

Proposal Number:

15

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Outagamie	1130-33-71		Appleton – Green Bay STH 47 Interchange	USH 41

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: December 10, 2013 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code
Contract Completion Time  October 17, 2014	<b>SAMPLE NOT FOR BIDDING PURPOSES</b>
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)

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

\_\_\_\_\_  
(Date Commission Expires)

Notary Seal

\_\_\_\_\_  
(Bidder Signature)

\_\_\_\_\_  
(Print or Type Bidder Name)

\_\_\_\_\_  
(Bidder Title)

## For Department Use Only

Type of Work Excavation common, Structures B-44-35, B-44-36 (re-deck, widen and raise), storm sewer, base aggregate dense, breaker run, concrete pavement, HMA pavement, concrete curb and gutter, concrete sidewalk, permanent signing, traffic signals, ITS, pavement marking, traffic control and landscaping.	Date Guaranty Returned
Notice of Award Dated	

**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.

## 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://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm>. 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](http://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://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm> 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.

#### 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 Express™ web site.
  2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
  3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ 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 Express™ web site reflecting the latest addenda posted on the department's web site at <http://www.dot.wisconsin.gov/business/engrserve/bid-letting-information.htm>. Use Expedite™ 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 Express™ web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the Expedite™ 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 Expedite™ 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 Expedite™ 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 Expedite™ generated schedule of items is not the same on each page.
  2. The check code printed on the printout of the Expedite™ 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.

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## **SPECIAL PROVISIONS**

### **1. General.**

Perform the work under this construction contract for Project 1130-33-71, Appleton – Green Bay, STH 47 Interchange, USH 41, Outagamie County, 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, 2014 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 (20130615)

### **2. Scope of Work.**

The work under this contract shall consist of excavation common, structures, storm sewer, culverts, base aggregate dense, concrete pavement, concrete curb and gutter, concrete sidewalk, permanent signing, traffic signals, pavement marking, traffic control, landscaping 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 start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the approved start date.

To revise the start date, submit a written request to the engineer at least two weeks before the intended start date. 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.

The contractor is advised that there may be multiple mobilizations for such items as erosion control, traffic control, detours, signing items, temporary pavement markings and other incidental items related to the staging. The department will make no additional payment for said mobilizations.

Comply with all local ordinances which apply to construction operations. Furnish any ordinance variance issued by the municipality or any other required permits to the engineer by the contractor, in writing before performing such work.

When engaged in roadway cleaning operations, use equipment having vacuum or water spray mechanisms to eliminate the dispersion of particulate matter into the atmosphere. If vacuum equipment is employed, it must have suitable self-contained particulate collectors to prevent discharge from the collection bin into the atmosphere.

An assumed duration of specific traffic control set up and related construction activities have been included for information only. The contractor can elect to complete individual construction stages and traffic phases any time during the project contract, provided the prerequisites have been met and interim and final completion dates are met.

The schedule of operations shall conform to the construction staging as shown in the construction staging plans and special provisions, unless the engineer approves modifications to the schedule in writing.

Association Drive: One lane of traffic in each direction shall be maintained at all times, or maintain one lane with flagging during work operations. At no time shall one lane be closed without providing flagging.

#### **Oversize Overweight Trucking Operations**

Provide a minimum of a two week notice to the engineer prior to closing the entrance and exit ramps at the USH 41 and STH 47 Interchange.

#### **Private Driveway Access**

Maintain access to all business driveways and private residence driveways on a minimum of base aggregate dense surface at all times except as follows. Close driveways for a maximum of seven calendar days for grading and placement of base aggregate and concrete paving for each driveway. Notify each business and/or each residence on the property a minimum of seven days prior to any driveway closures.

*Supplement standard spec 108.11 as follows:*

If the contractor fails to open USH 41 to two lanes of traffic in each direction and remove all traffic control devices associated with the full closure during times that closures are not allowed including periods shown in the Article for Traffic, the department will assess an initial deduction of \$5,000 in interim liquidated damages and an additional \$1,000 per 15-minute interval or portion thereof in interim liquidated damages from money due under this contract for each 15-minute interval that full closure(s) remain. The department will administer interim liquidated damages for the road not being open to traffic under the Failing to Open Road to Traffic administrative item.

## **4. Traffic.**

Complete the work under this contract in a staged sequence as shown in the plan. The stages were developed to maintain two lanes of traffic in each direction along USH 41 except in times during bridge deck removal, deck pours and other critical bridge operations.

### **STH 47 Stage 1**

Temporary pavement crossovers will be constructed through the existing median from Station 400'NBR'+50 – 402'NBR'+80 and from Station 418'NBR'+25 – 420'NBR'+25.

- USH 41 ramp traffic will be closed and detoured to CTH E (Ballard Road).
- STH 47 ramp access to USH 41 will be detoured to CTH OO (southbound) and CTH JJ (northbound).
- STH 47 traffic will be reduced to one lane in each direction between West Seneca Drive and Evergreen Drive and shifted to the existing outside lanes. The ramp terminal intersections will be closed and the existing traffic signals deactivated.
- Association Drive traffic will be restricted to right-in / right-out.

### **STH 47 Stage 2**

Structure B-44-36 will be raised / widened / re-decked during this stage. The STH 47 northbound lanes (east side) and the east interchange ramps will also be reconstructed during this stage.

- USH 41 ramp traffic will be detoured via the ramps for up to four consecutive nights during bridge deck removal.
- USH 41 lane closures will be allowed during off peak hours to allow for structure work.
- USH 41 shoulder closures along the right and left side of USH 41 will be required under the structure.
- USH 41 ramp traffic will remain closed and detoured to CTH E (Ballard Road).
- STH 47 ramp access to USH 41 will remain detoured to CTH OO (southbound) and CTH JJ (northbound).
- STH 47 traffic will remain one lane in each direction between West Seneca Drive and Evergreen Drive and shifted to the existing northbound lanes. The ramp terminal intersections will be closed and the existing traffic signals deactivated.
- Association Drive traffic will be restricted to right-in / right-out.

### **STH 47 Stage 3**

Structure B-44-35 will be raised / widened / re-decked during this stage. The STH 47 southbound lanes (west side), the west interchange ramps and Association Drive will also be reconstructed during this stage.

- USH 41 ramp traffic will be detoured via the ramps for up to four consecutive nights during bridge deck removal.
- USH 41 lane closures will be allowed during off peak hours to allow for structure work.
- USH 41 shoulder closures along the right and left side of USH 41 will be required under the structure.

- USH 41 ramp traffic will be closed and detoured to CTH E (Ballard Road).
- STH 47 ramp access to USH 41 will be detoured to CTH OO (southbound) and CTH JJ (northbound).
- STH 47 traffic will remain one lane in each direction between West Seneca Drive and Evergreen Drive and shifted to the newly constructed northbound lanes. The ramp terminal intersections will remain closed and the existing traffic signals deactivated.
- Association Drive traffic will be closed.

#### **STH 47 Stage 4**

Remaining STH 47 median work will be completed, temporary crossover areas will be restored and traffic signal installation will be completed.

- USH 41 ramp traffic will remain closed and detoured to CTH E (Ballard Road).
- STH 47 ramp access to USH 41 will remain detoured to CTH OO (southbound) and CTH JJ (northbound).
- STH 47 traffic will remain one lane in each direction between West Seneca Drive and Evergreen Drive and shifted to the existing outside lanes. The ramp terminal intersections will remain closed and the existing traffic signals deactivated.
- Association Drive traffic will be restricted to right-in / right-out.

#### **Wisconsin Lane Closure System Advanced Notification**

Provide the following minimum advance notification to the engineer for incorporation into the Wisconsin Lane Closure System.

Lane closures (without width, height or weight restriction)	3 business days
Service Ramp closures	3 business days
Extended closure hours	3 business days
Local Street openings/closings	7 calendar days
System Ramp closures	14 calendar days
Lane closures (with width, height or weight restriction)	14 calendar days
Project Start	14 calendar days
Full Freeway closures	14 calendar days
Construction stage changes	14 calendar days
Detours	14 calendar days

Notify the engineer if there are any changes in the schedule, early completions, or cancellations for scheduled work.

The detour route for STH 47 Ramp traffic will begin at the CTH E (Ballard Road) interchange with USH 41. For northbound traffic on CTH E; then west on CTH JJ to STH 47. For southbound traffic on CTH E; then west on CTH OO to STH 47.

#### **USH 41 Traffic**

Submit any traffic control change request to the engineer at least 72 hours prior to an actual traffic control change. A request does not constitute approval.

At all times during bridge construction operations over USH 41 maintain two lanes of traffic in both directions except during specific hours. Single lane closures on USH 41 are only permitted for this work during the following times:

**Single Lane Closures Allowed:**

- 6:00 PM Sunday – 5:00 AM Monday
- 7:00 PM Monday, Tuesday, Wednesday and Thursday to 5:00 AM the following day.
- 10:00 PM Friday – 9:00 AM Saturday
- 6:00 PM Saturday – 9:00 AM Sunday

Do not stop or impede traffic along USH 41 at any time as a result of tracking of equipment or material across any portion of the traveled way during construction operations.

**USH 41 Permitted Closures for Deck Removal/Girder Work**

Full closure of USH 41 will be permitted for work related to bridge deck and girder removal. Full closure of USH 41 will also be permitted for the resetting of existing girders and placement of new girders. Closures will be allowed from 9:00 PM Sunday, Monday, Tuesday and Wednesday to 5:00 AM the following day. Direct traffic from USH 41 onto the ramps and across the interchange during the closure.

USH 41 diversions are allowed in each direction for work related to the bridge deck removal and girder removal and resetting, and for placing new girders. The contractor will not be allowed to remove the existing pavement on the ramps and at STH 47 through the ramp terminals until work requiring full directional closures of USH 41 is completed except when temporary ramps are constructed to match the new grade of the northbound lanes (stage 3).

Install traffic control devices to detour STH 47 traffic during USH 41 permitted closures as directed by the engineer. Install traffic control devices along the STH 47 approaches to the detour route as directed. Undistributed quantities of traffic control devices are included in the plans.

For the work related to resetting existing girders and placing new girders, the contractor also has the option to use a slo-sure (temporarily slowing traffic on the roadway with the assistance of the Wisconsin State Patrol) on USH 41 to control traffic. The contractor will be allowed to use a slo-sure for one night in each direction. Slo-sures will be allowed from 11:00 PM to 4:00 AM. The existing pavement material on the ramps and through STH 47 could be removed if the slo-sure technique is used in place of a full closure. A contract has been established with the Wisconsin State Patrol (SP) and the department to have the SP man the slo-sures if used. Five days prior notice is required by the SP for staffing of the slo-sures. Contact Sgt. Timothy McGrath at (920) 929-3703

Work for structure rehabilitation involving temporary one-lane closures on USH 41 includes installation and removal of temporary concrete barrier, deck removal and replacement, rail removal, parapet construction and other work as approved by the engineer.

Place temporary concrete barrier to close the shoulder of USH 41 in the vicinity of B-44-35/36. Keep USH 41 northbound and southbound open to traffic during bridge jacking operations utilizing two 12-foot travel lanes and 2-foot shoulders measured from the edge of the traveled lane to the face of the temporary barrier wall.

#### **Protection of Bridge Pier Columns**

Bridge pier columns shall remain protected at all times throughout construction. Removal of existing guardrail shall be done concurrently with the placement of the temporary concrete barrier so that the bridge pier columns remain protected at all times. Placement of new beamguard shall be completed to a point to provide protection for the pier columns before the temporary concrete barrier is removed. Remaining beamguard shall be placed within 24 hours of the temporary concrete barrier being removed.

Do not stockpile equipment or material in the USH 41 clear zone whether in the median or on the outside of the roadway, unless protected behind concrete barrier.

Do not stockpile material on the side of or in the median of USH 41 during an allowable lane closure or spread behind a shoulder closure when lane closures are restricted.

#### **Portable Changeable Message Signs – Message Prior Approval**

After coordinating with department construction field staff, notify the Northeast Region Traffic Section at (920) 492-5641 (secondary contact number is (920) 492-7719) three business days prior to deploying or changing a message on a PCMS to obtain approval of the proposed message. The Northeast Region Traffic Unit will review the proposed message and either approve the message or make necessary changes.

#### **Special Events**

Lane closures are restricted during Green Bay Packer football games and Family Night at Lambeau Field for USH 41 northbound lanes beginning five hours prior to the scheduled start of the game until kickoff and for USH 41 southbound lanes beginning at halftime of the game until five hours past its completion. Failure to provide two through lanes in one direction along USH 41 according to special events restrictions listed in this section will result in a deduction of \$1,000 per lane closure from money due under this contract for each 15 minute interval or portion thereof that the closure remains. The department will administer damages for lane closure under the Failing to Open Road to Traffic administrative item.

#### **General Access**

U-Turns at existing maintenance crossovers or temporary crossovers between US 41 northbound and southbound will be allowed when lane closures are in place for inside northbound and southbound passing lanes.

Construction operations affecting the traveling public's safety on USH 41 will not be allowed during snow and ice conditions, or any other adverse weather conditions, unless approved by the engineer.

Delivery of equipment to USH 41 requiring the use of a semi tractor and trailer shall only occur during those hours identified as non-peak work periods.

## **5. Holiday and Other Work Restrictions.**

USH 41 shall be restored to 4-lane counter-directional traffic during the following periods. Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 41 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights and any other material that might impede the free flow of traffic during the following holiday periods:

- Green Bay Packers home games and Packer Family Scrimmage: From five hours prior to kickoff of the game until Five hours after the end of the game;
- Opening day fishing: From 5:00 PM Friday to 10:00 PM Friday May 2, 2014;
- Memorial Day: From noon Friday, May 23, 2014 to 5:00 AM, Tuesday, May 27, 2014;
- July 4<sup>th</sup>: From noon Thursday, July 3, 2014 to 5:00 AM Monday, July 7, 2014;
- Labor Day: From noon Friday, August 29, 2014 to 5:00 AM Tuesday, September 2, 2014;

Prior to preparing bids, verify the dates of each festival, game, or event listed to obtain current dates for work restrictions.

## **6. Utilities.**

This contract comes under the provision of Administrative Rule Trans 220. 107-065 (20080501)

There are underground and overhead utility facilities located within the project limits. There are known utility adjustments required for the construction project as noted below. 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 statutes. Use caution to insure the integrity of underground facilities and maintain code clearance from overhead facilities at all times. Adjustments in the location of certain described items may be necessary, as directed by the engineer, when it becomes evident that a utility conflict could occur.

Prospective bidders are cautioned that the arrangements set forth in this Article represent the utility companies' best estimate of their plans to relocate and/or adjust conflicting facilities. Frequently, the utility companies encounter problems that prevent them from meeting their anticipated schedules. Bidders are advised to contact each utility company listed in the plans,

prior to preparing their bids, to obtain current information on the status of any utility relocation work stated herein.

Work around or remove and dispose of any discontinued utility conduits, cables, and pipes encountered during excavation. Any removal and disposal shall be incidental to common excavation, unless specified otherwise in this contract as a separate bid item.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide a good faith notice to both the engineer and the affected utility of when the utility is to start work at the site. Unless specified otherwise in this article, provide this notice 14 to 16 calendar days in advance of when you anticipate the prior work being completed and provide a confirmation notice to the engineer and the utility 3 to 5 working days before the site will be ready for the utility to begin its work.

**ANR Pipeline Company.** ANR Pipeline Company has 8” and 16” underground gas/petroleum facilities that cross STH 47 between Station 415+65 and Station 415+95.

No conflicts or relocations are planned with these facilities. Contact ANR prior to any excavation in this area to verify proper working clearances are maintained. Notify ANR two weeks prior to performing grading in the area of the existing vent pipes (415+75, RT) to schedule adjustments to final grade.

The field contact is Robert Bibelhausen, N4956 Oakcrest Drive, Bonduel, WI (715) 958-3343, (715)-460-4001 (mobile).

**AT&T Wisconsin.** AT&T Wisconsin has underground and overhead copper telephone and underground fiber optic facilities within the project limits at the following locations: Fiber Optic: Station 402+80 to Station 420+63 LT. Copper: Station 415+50 to Station 420+63 RT.

AT&T will perform the following adjustments prior to construction with activities completed by April 10<sup>th</sup>: Relocate underground fiber and copper (417+00 – 419+00, RT).

AT&T will perform the following adjustments during construction: Lower existing fiber optic and coordinate with storm sewer installation at Association Drive to 406+00, LT. Adjust manholes to final grade at stations (408+64, 412+83, 415+55) LT. Adjust pedestals to final grade at stations (414+00, 415+50) RT. Please contact AT&T 4-6 weeks before an area will be available for AT&T to accomplish their work. Allow for a minimum 5 days notice to coordinate adjustments during construction.

Take caution when working around AT&T manhole at Station 408+63.6 SB, 91.5’ LT. This manhole has only 12” of cover.

The field contact is Gary Laabs, 4th Floor 221 West Washington Street, Appleton, WI 54911, (920) 735-3063.

**City of Appleton Dept. of Public Works -Sanitary.** City of Appleton has sanitary sewer facilities (8” concrete and PVC pipes and manholes) within the project limits at the following locations:

Station 402+80 to Station 405+25 LT.

No conflicts are anticipated to underground sanitary sewer pipes. Manholes within the reconstruction limits are being reconstructed as part of this contract. Coordinate directly with the City of Appleton a minimum of 5 business days prior to adjusting manholes.

The field contact is Gary Klein, Municipal Service Building, Glendale Avenue, Appleton, WI 54911, (920) 832-5580, (920) 419-6038 (mobile).

**City of Appleton Dept. of Public Works -Water.** City of Appleton has 16” water main facilities within the project limits at the following locations:

- Station 402+80 to Station 405+10 LT.
- Station 405+10 to Station 420+63 RT.

No conflicts are anticipated to underground water main facilities. Valve adjustments are required in all areas of pavement reconstruction. Coordinate directly with the City of Appleton a minimum of 5 business days prior to activities requiring water valve adjustments.

The field contact is Gary Klein, Municipal Service Building, Glendale Avenue, Appleton, WI 54911, (920)-832-5580, (920)-419-6038 (mobile).

**Time Warner Communications.** Time Warner Communications has underground and overhead communication facilities within the project limits at the following locations:

- Underground crossing at approximately Station 405+00.
- Overhead from Station 402+80 to Station 420+63 RT on WE Energies poles.

No conflicts are anticipated to underground communication facilities. Any excavation in the area of Time Warner Communication’s underground facilities requires observation by USIC (to be provided at no cost). Contact Brian Coombs at USIC, (715) 210-0013, with at least 48-hours notice.

The field contact is Vince Albin, 3520 Destination Dr, Appleton, WI 54915, (920) 831-9249, e-mail: vince.albin@twcable.

**Town of Grand Chute –Sanitary District 1.** Town of Grand Chute has sanitary sewer facilities within the project limits at the following locations:

- Station 404+25 to Station 407+75 LT.
- Crossing of STH 47 at Station 405+40.

No conflicts are anticipated to underground sanitary sewer pipes. Manholes within the reconstruction limits are being reconstructed as part of this contract. Coordinate directly with the Town of Grand Chute a minimum of 5 business days prior to adjusting manholes.

The field contact is Todd Pahl, 1900 Grand Chute Blvd, Appleton, WI 54913-9613, (920) 832-1581.

**WE Energies-Electric.** WE Energies has overhead electric facilities within the project limits as described below: Overhead electric from Station 402+00 – 421+50, RT along the entire east right of way of STH 47.

Poles at Station 405+70, LT and 417+35, LT will be adjusted prior to construction.

Coordinate street lighting adjustments with the City of Appleton. Coordinate traffic signal service adjustments with the WisDOT signal unit.

The field contact is Jim Quinn, P.O Box 1699, 800 South Lynndale Dr, Appleton, WI 54912, (800) 972-8856, (920) 380-3401 (mobile).

**WE Energies-Gas.** WE Energies has underground gas facilities within the project limits at the following locations: Station 402+80 to 406+75 RT, Station 414+65 to 420+63 RT, crossings of STH 47 at Station 403+90 and Station 414+65.

No conflicts are anticipated with WE Energies gas facilities.

The field contact is Kenneth J. Van Oss, 800 S Lynndale Dr, Appleton, WI 54912-1699, (920) 380-3318, email: [Kenneth.van-oss@we-energies.com](mailto:Kenneth.van-oss@we-energies.com).

## **7. Other Contracts**

The following project may be under construction concurrently with the work under this contract. Coordinate activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts.

**Project 1133-03-76**, IH 41 Conversion, SCL Dodge County - IH 43 Signing, USH 41, NE & SW Region Wide, Wisconsin under a department contract. Work under this contract is anticipated to be LET in March 2014 with an anticipated completion date of November 14, 2014. Work areas under contract 1133-03-76 fall within the physical limits of work under this contract. Coordinate activities in these areas with the 1133-03-76 contractor.

## **8. Work by Others.**

At the interchange of USH 41 and STH 47, the Wisconsin Department of Transportation Northeast Region Electrical Unit will perform the following work:

- Furnish monotube poles, arms, steel luminaire arms and monotube plaques.
- Salvage existing traffic signal cabinet.
- Provide and install the new traffic signal cabinets.
- Make application to relocate the electric service on the northbound ramps.
- Make application for new electric service on southbound ramps.
- Provide and install the microwave detectors.
- Terminate all cables and wire in the control cabinet.
- Furnish ITS equipment (see plans), contact Randy Asman, (920) 492-7719.

## 9. **Environmental Protection.**

*Supplement standard spec 107.18 follows:*

### **Wetlands**

The contractor shall not disturb nor store materials or topsoil within the nearby wetlands as shown on the erosion control sheets unless areas are designated to be filled or impacted. The work area shall be separated from the wetlands by silt fence, as shown on the plans, to avoid siltation and inadvertent fill into the wetland areas.

### **Phragmites**

Phragmites is an invasive species plant. Locations identified to have Phragmites shall be buried to a minimum of 2-feet below finished ground but outside of the 1:1 fill slopes. Reuse of the phragmites soil as salvaged topsoil in areas where the plant currently exists is also allowed. At locations where the item Excavation of Phragmites Soil is specified in the plans, work shall be done in accordance to the item Excavation of Phragmites Soil.

For all equipment that comes into contact with Phragmites infested areas, follow the guidelines established under the Environmental Protection, Aquatic Exotic Species Control section of this special provision for inspection and cleaning of equipment prior to leaving the project site.

### **Dewatering**

If dewatering is required, treat the water to remove suspended solids before allowing it to enter any waterway or wetland. Provide a sedimentation basin with sufficient capacity and size to provide an efficient means to filter the water from the dewatering operation before it is discharged back into the waterway or wetland as provided in the standard specifications and these special provisions. As part of the Erosion Control Implementation Plan (ECIP) submittal, supply all pertinent information and calculations used to determine the best management practice for dewatering at each location it is required.

Refer to the dewatering guidelines of WisDNR Storm Water Management Technical Standards, Code #1061, "Dewatering". This document can be found at the WisDNR website: <http://dnr.wi.gov/runoff/stormwater/techstds.htm>

## 10. Environmental Protection, Aquatic Exotic Species Control.

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, “Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters”, details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels prior to being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources [http://dnr.wi.gov/topic/fishing/documents/vhs/disinfection\\_protocols.pdf](http://dnr.wi.gov/topic/fishing/documents/vhs/disinfection_protocols.pdf) for disinfection:

1. Prior to leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can prior to leaving the area or invested waters; and
4. Disinfect your boat, equipment and gear by either:
  - a. Washing with ~212° F water (steam clean), or
  - b. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
  - c. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore this disinfect should be used in conjunction with a hot water (>104° F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site.

107-055 (20130615)

## **11. 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):

Tetzlaff Property, 3815 N Richmond Street – 413+50 NB – 416+50 NB; LT of centerline.

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.

107-100 (20050901)

## **12. Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.**

Jeffrey S. Carlson, License Number All-3420, inspected Structure B-44-0035 and B-44-0036 for asbestos on February 13, 2007. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Matthew Haefs, WisDOT NE Region, (920) 492-5702.

## **13. Notice to Contractor – Requirements for Valley Baptist Church Property.**

All work adjacent to the Valley Baptist Church property at 3600 N. Richmond Street / 3600 N. Chippewa Street (403+75 'NB' – 408+00 'NB') shall proceed in accordance to the following special conditions:

- All lawn areas disturbed within the property limits shall be replaced with sod. Quantities of Sod Lawn are included with the plans.
- Install safety fencing along the temporary limited easement boundaries at the start of construction, removed when the project is complete; or as directed by the engineer. Quantities of Fence Safety are included with the plans.
- Removal of a section of the parking lot will be required and is shown in the plans. The existing parking lot is partially within existing roadway right-of-way. Mark the removal limits and contact the engineer prior to saw cutting or removal. The engineer will coordinate directly with the property owner to verify the removal limits are within the road right-of-way.
- Refer to the article for bid item "Crack and Damage Survey" for additional requirements.
- Generally avoid impacts to this parcel unless shown in the plans or not otherwise avoidable. Coordinate with the engineer prior to all work taking place on this property.

**14. Notice to Contractor – Salvaged Topsoil Requirements.**

Salvaged wetland type topsoil along Ramp NW (USH 41 southbound exit) shall be stored on site, isolated from other material, then re-placed for final surface material in the same area as the original excavation. This applies to topsoil from 750+00'NW' – 756+50'NW', right of reference line.

**15. Notice to Contractor – Silt Fence Near USH 41 Wetland Areas.**

Place silt fence at toe of slope in ramp quadrant areas, but without encroaching into wetland areas. Notify the engineer prior to silt fence installation for a site review of wetland area boundaries.

**16. Intelligent Transportation Systems (ITS) Control of Materials.**

**Standard spec 106.2 – Supply Source and Quality**

Is modified by the addition of the following:

A portion of equipment to be installed by the contractor will be furnished by the department. This department-furnished equipment includes the following:

<b>Department-furnished Items</b>
Pole-mounted Cabinet
Video Encoder
Ethernet Switch
4G Cellular Modem
Microwave Detector Assembly
Integrated Control Camera Assembly
50-Foot Camera Pole With Lowering Mechanism

Pick-up small department-furnished equipment, such as spread spectrum radios from the department Statewide Traffic Operations Center (STOC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal State office hours. Contact Dean Beekman at (414) 227-2154 to coordinate pick-up of equipment.

Large department-furnished equipment, such as camera poles, will be delivered by the supplier to a contractor-controlled site within Outagamie or Brown County. Delivery will not necessarily be in a “just in time” manner. Store the equipment until field installation. Provide location details and a contact for delivery coordination upon receiving the contract’s Notice to Proceed.

## **17. Intelligent Transportation System - General.**

### **A Description**

The work herein is included in the contract items for furnishing and installing elements for an Intelligent Transportation System (ITS) in or along the existing roadway as shown on the plans.

Unusual aspects of this project include:

The project includes working on cables and equipment that are carrying data between roadside equipment and the WisDOT Traffic Operations Center (TOC). This work must be done in a way that minimizes communication outages for the existing equipment. Some of the equipment to be installed will be furnished by the department. Make a reasonable effort to discover defects in that equipment prior to installing it.

### **A.1 Surge Protection**

Equip every ungrounded conductor wire entering or leaving any equipment cabinet or camera housing with a surge protector. For purposes of this section, multiple cabinets on a single pole or foundation are considered a single cabinet.

### **B Materials**

#### **B.1 General**

All equipment and component parts furnished shall be new and have high quality workmanship. All controls, indicators, and connectors shall be clearly and permanently labeled in a manner approved by the engineer. All equipment of each type shall be identical.

All electrical equipment shall conform to the standards and requirements of the Wisconsin Electrical Code, the National Electrical Manufacturers Association (NEMA), National Electric Safety Council (NESC), Underwriter's Laboratory Inc. (UL) or the Electronic Industries Association (EIA), when applicable. All materials and workmanship shall conform to the requirements of the National Electrical Code (NEC), Rural Electrification Administration (REA), Standards of the American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), requirements of the plans, these Technical Special Provisions, the Standard Specifications, and to any other codes, standards, or ordinances that may apply. All system wiring, conduit, grounding hardware and circuit breakers shall be in conformance with the National Electrical Code. Whenever reference is made to any of the standards mentioned, the reference shall be considered to mean the code, ordinance, or standard that is in effect at the time of the bid advertisement.

#### **B.2 Outdoor Equipment**

All conductive connectors, pins (except pins connected by soldering), and socket contacts shall be gold plated. Acrylic conformal coating shall protect each circuit board side that has conductive traces. Except for integrated circuits containing custom firmware, all components shall be soldered to the printed circuit board.

To prevent galvanic corrosion, all connections between dissimilar metals shall incorporate a means of keeping moisture out of the connection. Where the connection need not conduct electricity, interpose a non-absorbing, inert material or washer between the dissimilar metals. Use nonconductive liners and washers to insulate fasteners from dissimilar metals. Where the connection must conduct electricity, use a conductive sealant between the dissimilar metals. Alternatively, use an insulating gasket and a bond wire connecting the two metal parts.

### **B.3 Custom Equipment**

Equipment that is not part of the manufacturer's standard product line, or that is made or modified specifically for this project, shall conform to the following requirements:

Where practical, electronics shall be modular plug-in assemblies to facilitate maintenance. Such assemblies shall be keyed to prevent incorrect insertion of modules into sockets.

All components shall be available from multiple manufacturers as part of the manufacturers' standard product lines. All must be clearly labeled with the value, part number, tolerance, or other information sufficient to enable a technician to order an exact replacement part.

Lamps used for indicator purposes shall be light-emitting diodes.

The printed circuit boards shall be composed of "two-ounce" copper on 1/16" thick fiberglass epoxy or equivalent type construction. Holes that carry electrical connections from one side of the boards to the other shall be completely plated through. Multilayer printed circuit boards shall not be used. The name or reference number used for the board in the drawings and maintenance manuals supplied to the department shall be permanently affixed to each board.

All components shall be mounted so that the identifying markings are visible without moving or removing any part, if practical.

### **B.4 Environmental Conditions**

Equipment shall continue to operate as specified under the following ranges of environmental conditions, except as noted in the specifications for individual pieces of equipment.

1. **Vibration and Shock:** Camera assemblies, vehicle detectors, detection classification sensors, and any other equipment mounted atop poles or on structures shall not be impaired by the continuous vibration caused by winds (up to 90 mph with a 30 percent gust factor) and traffic.
2. **Duty Cycle:** Continuous.
3. **Electromagnetic Radiation:** The equipment shall not be impaired by ambient electrical or magnetic fields, such as those caused by power lines, transformers, and motors. The equipment shall not radiate signals that adversely affect other equipment.

4. **Electrical Power:**

- a. **Operating power:** The equipment shall operate on 120 volts, 60 Hz, single-phase unless otherwise specified. It shall conform to its specified performance requirements when the input voltage varies from 89 to 135 volts and the frequency varies  $\pm 3$  Hz.
- b. **High frequency interference:** The equipment operation shall be unaffected by power supply voltage spikes of up to 150 volts in amplitude and ten microseconds duration.
- c. **Line voltage transients:** The equipment operation shall be unaffected by voltage transients of plus or minus 20 percent of nominal line voltage for a maximum duration of 50 milliseconds. Equipment in the field shall meet the power service transient requirements of NEMA Standard TS-2 when connected to the surge protectors in the cabinets.

5. **Temperature and Humidity:**

- a. **Field equipment:** Equipment in the field shall meet the temperature and humidity requirements of NEMA Standard TS-2. Liquid crystal displays shall be undamaged by temperatures as high as 165 degrees F, and shall produce a usable display at temperatures up to 120 degrees F.
- b. **Equipment in Controlled Environments** shall operate normally at any combination of temperatures between 50 degrees F and 100 degrees F, and humidity's between 5 percent and 90 percent, non-condensing, and with a temperature gradient of 9 degrees F per hour.

### **B.5 Patch Cables and Wiring**

All cables and wiring between devices installed in a single cabinet, or in separate cabinets sharing a single concrete base, will be considered incidental to the installation of the devices and no separate payment will be made for them. It is anticipated that this will include fiber optic patch cables between termination panels and Ethernet switches, 10 / 100 MBPS Ethernet cables, RS-232 cables between individual devices and terminal servers, and power cables between individual devices and power sources within the cabinets.

### **B.6 Surge Protection**

**Low-voltage signal pairs** shall be protected by two-stage, plug-in surge protectors and shall be installed on both ends of camera control cables. The protectors shall meet or exceed the following minimum requirements:

- The protectors shall suppress a peak surge current of up to 10K amps.
- The protectors shall have a response time less than one nanosecond.
- The protector shall clamp the voltage between the two wires at a voltage that is no more than twice the peak signal voltage, and clamp the voltage between each wire and ground at 50 volts.
- The first stage of protection shall be a three-element gas discharge tube, and the second stage shall consist of silicon clamping devices.
- The protector shall also contain a resettable fuse (PTC) to protect against excessive current.

- There shall be no more than two pairs per protector.
- It shall be possible to replace the protector without using tools.

**Loop detector cables and cables carrying power to camera assemblies** shall be protected at the cabinet by grounded metal oxide varistors of appropriate voltages. The varistors must be at least 0.8 inch in diameter.

**Coaxial cables** carrying video signals shall be protected at each end by suppressors designed for baseband CCTV signals. The suppressors shall conform to the following:

- Surge: 18,000 amps with an 8 x 20 microsecond waveform
- Turn-on time: 4ns for 2 kV/ns
- VSWR: 1.1:1 or less
- Insertion loss: 0.3 dB or less
- Frequency range: DC to 30 MHz
- BNC connectors
- Operating voltage: 1.5 volts
- Impedance: 75 ohms

## **C Construction**

### **C.1 Communication Vaults**

All openings in communication vaults must be cored or blocked out at time of fabrication, or cored at time of placement. Where multi-cell or standard nonmetallic conduit is terminated at manholes, the coring or boxout shall be no larger than 6 inches in diameter or 6 inches square respectively for each conduit. Where multi-cell, directional bore or nonmetallic conduit special is terminated at manholes, a boxout of no more than 14 inches by 6 inches high by 3 inches deep positioned at 90 degrees will be allowed.

### **C.2 Thread Protection**

Rust, corrosion, and anti-seize protection shall be provided at all thread assemblies of metallic parts by coating (non-spray) the mating surfaces with an approved compound. Failure to use an approved compound will result in no payment for the items to which coating was to have been applied.

### **C.3 Cable Installation**

When new cables are to be installed into conduits containing existing cables, remove the existing cables and reinstall the existing cables simultaneously with the new cables. Take every precaution necessary to protect the existing cables. In the event of avoidable damage to the existing cables, replace all damaged cables, in-kind, at no additional expense to the department. When cables are pulled into conduit, use a cable pulling lubricant approved by the cable manufacturer. Submit documentation supporting manufacturer approval of the lubricant to the engineer.

When cables are installed in conduit before the proper installation of bushings or bell ends on the conduit or without the use of cable lubricant, the cables will be paid at 50 percent of the contract unit price if testing shows no damage to the cables. Replace all cables which testing shows to be damaged at no cost to the department.

#### **C.4 Wiring**

Every conductor, except a conductor contained entirely within a single piece of equipment, must terminate either in a connector or on a terminal block. Provide and install the connectors and terminal blocks where needed, without separate payment. Approved splice kits shall be used instead of connectors and terminal blocks for underground power cable splices.

Permanently label and key connectors to preclude improper connection. The labeling method(s) must be approved by the engineer prior to use.

Terminal blocks must be affixed to panels that permanently identify the block and what wire connects to each terminal. This may be accomplished by silk screening or by installing a laminated printed card under the terminal block, with the labels on portions of the card that extend beyond the block. Installation of terminal blocks by drilling holes in the exterior wall of the cabinet is not acceptable.

Use barriers to protect personnel from accidental contact with all dangerous voltages.

Do not install conductors carrying AC power in the same wiring harness as conductors carrying control or communication signals.

Arrange wiring, including fiber optic pigtails, so that any removable assembly can be removed without disturbing wiring that is not associated with the assembly being removed.

Communication and control cables may not be spliced underground, except where indicated on the plans.

Cables in the Traffic Operations Center or in communication hubs, that are not contained within a single cabinet, shall have at least 10 feet of slack.

#### **C.5 System Operations**

If the contractor's operations interrupt Intelligent Transportation Systems (ITS) service, notify the engineer immediately and restore service within 24 hours. Repair all damaged facilities to the condition existing before the interruption. If service is not restored within 24 hours, the department may restore service to any operating device and deduct restoration costs from payments due the contractor.

#### **C.6 Surge Protection**

Arrange the equipment and cabinet wiring to minimize the distance between each conductor's point of entry and its protector. Locate the protector as far as possible from electronic equipment. All wiring between the surge protectors and the point of entry shall be free from sharp bends.

#### **D Measurement**

No separate measurement will be made for the work described in this article.

## **E Payment**

No separate payment will be made for the work described in this article. All work described in this article shall be included under the ITS items in the contract.

## **18. Hauling Restrictions.**

Do not haul materials of any kind on local roads leading to STH 47 without approval of the local Maintaining Authority and the department. Any proposals to haul on local roads shall be by a written agreement between the contractor and the respective maintaining Authority. A letter to the department from the Maintaining Authority in agreement to the hauling shall be submitted prior to hauling. The contractor should contact the respective Maintaining Authority prior to bidding for approval of haul routes. This provision does not reduce or eliminate the contractor responsibility from restoring local roads.

## **19. 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 6:30 AM, unless prior written approval is obtained from the engineer.  
107-001 (20060512)

## **20. Traffic Control.**

Perform this work in accordance to the requirements of standard spec 643, and as shown on the plans or as approved by the engineer, except as hereinafter modified.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as shown on the plans. Submit this plan ten days prior to the preconstruction conference.

Provide 24 hours-a-day availability of equipment and forces to expeditiously restore lights, signs, or other traffic control devices that are damaged or disturbed. The cost to maintain and restore the above items shall be considered incidental to the item as bid and no additional payment will be made therefore.

Supply the name and telephone number of a local contact person for traffic control repair before starting work.

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

The turning of traffic control devices when not in use to obscure the message will not be allowed under this contract.

Obtain prior approval from the engineer for the location of egress and ingress for construction vehicles to prosecute the work.

Cover existing signs which conflict with traffic control as directed by the engineer.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles on the roadways. This includes the following:

- a. Do not park or store any vehicle, piece of equipment, or construction materials on the right-of-way without approval of the engineer.
- b. All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic.
- c. Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1000 feet. Activate the beam when merging into or exiting a live traffic lane.
- d. Do not access, park or store vehicles, equipment, or materials during construction within areas at the following locations: Marion University Parking Lot

Provide a minimum seven working day notice to the business management personnel prior to entering or working within the TLE area.

Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor expense.

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

## **21. Nighttime Work Lighting-Stationary.**

### **A Description**

Provide portable lighting as necessary to complete nighttime work. Nighttime operations consist of work specifically scheduled to occur after sunset and before sunrise.

### **B (Vacant)**

### **C Construction**

#### **C.1 General**

This provision shall apply when providing, maintaining, moving, and removing portable light towers and equipment-mounted lighting fixtures for nighttime stationary work operations, for the duration of nighttime work on the contract.

At least 14 days prior to the nighttime work, furnish a lighting plan to the engineer for review and acceptance. Address the following in the plan:

1. Layout, including location of portable lighting – lateral placement, height, and spacing. Clearly show on the layout the location of all lights necessary for every aspect of work to be done at night.
2. Specifications, brochures, and technical data of all lighting equipment to be used.
3. The details on how the luminaires will be attached.
4. Electrical power source information.
5. Details on the louvers, shields, or methods to be employed to reduce glare.
6. Lighting calculations. Provide illumination with average to minimum uniformity ratio of 5:1 or less throughout the work area.
7. Detail information on any other auxiliary equipment.

### **C.2 Portable Lighting**

Provide portable lighting that is sturdy and free standing and does not require any guy wires, braces, or any other attachments. Furnish portable lighting capable of being moved as necessary to keep up with the construction project. Position the portable lighting and trailers to minimize the risk of being impacted by traffic on the roadway or by construction traffic or equipment. Provide lightning protection for the portable lighting. Portable lighting shall withstand up to 60 mph wind velocity.

If portable generators are used as a power source, furnish adequate power to operate all required lighting equipment without any interruption during the nighttime work. Provide wiring that is weatherproof and installed according to local, state, federal (NECA and OSHA) requirements. Equip all power sources with a ground-fault circuit interrupter to prevent electrical shock.

### **C.3 Light Level and Uniformity**

Position (spacing and mounting height) the luminaires to provide illumination with an average to minimum uniformity ratio of 5:1 or less throughout the work area.

Illuminate the area as necessary to incorporate construction vehicles, equipment, and personnel activities.

### **C.4 Glare Control**

Design, install, and operate all lighting supplied under these specifications to minimize or avoid glare that interferes with all traffic on the roadway or that causes annoyance or discomfort for properties adjoining the roadway. Locate, aim, and adjust the luminaires to provide the adequate level of illumination and the specified uniformity in the work area without the creation of objectionable glare.

Provide louvers, shields, or visors, as needed, to reduce any objectionable levels of glare. As a minimum, ensure the following requirements are met to avoid objectionable glare on the roadways open to traffic in either direction or for adjoining properties:

1. Aim tower-mounted luminaires, either parallel or perpendicular to the roadway, so as to minimize light aimed toward approaching traffic.
2. Aim all luminaires such that the center of beam axis is no greater than 60 degrees above vertical (straight down).

If lighting does not meet above-mentioned criteria, adjust the lighting within 24 hours.

### **C.5 Continuous Operation**

Provide and have available sufficient fuel, spare lamps, generators, and qualified personnel to ensure that the lights will operate continuously during nighttime operation. In the event of any failure of the lighting system, discontinue the operation until the adequate level of illumination is restored. Move and remove lighting as necessary.

### **D (Vacant)**

### **E Payment**

Costs for furnishing a lighting plan, and for providing, maintaining, moving, and removing portable lighting, tower mounted lighting, and equipment-mounted lighting required under this special provision are incidental to the contract.  
643-010 (20100709)

## **22. Debris Containment B-44-35, Item 203.0225.S.01; B-44-36, Item 203.0225.S.02.**

### **A Description**

This special provision describes providing a containment system to prevent debris from structure removal, reconstruction, or other construction operations from falling onto facilities located under the structure. Using this containment system does not relieve the contractor of requirements under standard spec 107.17 and standard spec 107.19 or requirements under a US Army Corps of Engineers Section 404 Permit.

### **B (Vacant)**

### **C Construction**

Prior to starting work, submit a debris containment plan to the engineer for review. Incorporate engineer-requested modifications. Do not start work over USH 41 until the engineer approves the debris containment plan.

Maintain adequate protection throughout construction for people and property within the potential fall zone. Ensure that a containment system capable of protecting underlying

facilities from falling construction debris is in place before beginning deck repair, parapet removal, or other operations that may generate debris.

At least 15 working days before conducting potential debris generating operations, contact the following owners or lessees:

Matthew W. Haefs, P.E.  
Project Manager  
Calumet County  
Manitowoc County  
WISDOT - DTSD - NE Region  
944 Vanderperren Way  
Green Bay, WI 54304  
(920) 492-5702  
(920) 492-7707 (fax)  
[Matthew.Haefs@dot.wi.gov](mailto:Matthew.Haefs@dot.wi.gov)

#### **D Measurement**

The department will measure Debris Containment (Structure) as a single lump sum unit of work for each structure, 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
203.0225.S.01	Debris Containment B-44-35	LS
203.0225.S.02	Debris Containment B-44-36	LS

Payment is full compensation for furnishing, installing, maintaining, and removing a debris containment system.

203-010 (20080902)

### **23. Abandoning Sewer, Item 204.0291.S.**

#### **A Description**

This special provision describes abandoning existing sewer by filling it with cellular concrete according to the pertinent requirements of standard spec 204 and standard spec 501, as shown in the plans, and as hereinafter provided.

#### **B Materials**

Provide cellular concrete meeting the following specifications: 1 part cement, 1 part fly ash, 8 parts sand, or an approved equal, and water. Provide cement meeting the requirements of standard spec 501.2.1 for Type 1 Portland Cement. Provide sand meeting the requirements of standard spec 501.2.5.3 Provide water meeting the requirements of standard spec 501.2.4.

### **C Construction**

Fill the abandoned sewer pipe with cellular concrete as directed by the engineer. In the event that the sewer cannot be completely filled from existing manholes, tap the sewer where necessary and fill from these locations.

### **D Measurement**

The department will measure Abandoning Sewer in volume by the cubic yard according to standard spec 109.1.3.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

Payment is full compensation for furnishing all materials and excavating and backfilling where necessary.

204-050 (20080902)

## **24. 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, 305, and 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:

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

<sup>[1]</sup> 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.

<sup>[2]</sup> For 3-inch material, obtain samples at load-out.

<sup>[3]</sup> 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:

<b>Required Certification Level:</b>	<b>Sampling or Testing Roles:</b>
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 Boulevard

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 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)

**25. Removing Bearings B-44-35, Item 506.7050.S.01; B-44-36, Item 506.7050.S.02.**

**A Description**

This special provision describes raising the girders and removing the existing bearings, as shown on the plans and as hereinafter provided.

**B (Vacant)**

**C Construction**

Raise the structure's girders and remove the existing bearings as shown in the plans

Obtain prior approval from the engineer for the method of jacking the girders and of supporting them as required.

**D Measurement**

The department will measure Removing Bearings by the unit for each individual bearing removed, 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
506.7050.S.01	Removing Bearings B-44-35	Each
506.7050.S.02	Removing Bearings B-44-36	Each

Payment is full compensation for raising the bridge girders; and for removing the old bearings.

Cost of furnishing and installing the bearings will be paid for under separate bid items.  
506-035 (20130615)

**26. Bridge, Jacking, B-44-35, Item 506.7060.S.01; Bridge, Jacking, B-44-36, Item 506.7060.S.02.**

**A Description**

This special provision describes raising the bridge, supporting it while the substructure units are being raised, and lowering the bridge back on bearings or bearing pads in accordance to the standard specifications and as hereinafter provided.

**B (Vacant)**

**C Construction**

Support jacks on or adjacent to existing substructure units. So that the entire bridge is raised simultaneously, use a sufficient number of jacks. Use approximately the same rate of jacking at each substructure unit.

Submit to the engineer for approval plans showing the method of raising the bridge. Show type of jacks, size of jacks, shoring or falsework, and sequence of work in the plan.

**D Measurement**

The department will measure Bridge Jacking (Structure), as a single complete lump sum unit of work consisting of raising one bridge, 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
506.7060.S.01	Bridge Jacking B-44-35	LS
506.7060.S.02	Bridge Jacking B-44-36	LS

Payment is full compensation for furnishing all equipment and shoring; raising the bridge; and lowering the bridge onto the bearings.

506-040 (20030820)

## **27. Concrete Sidewalk.**

*Supplement standard spec 602.3.2.5 as follows.*

Saw all sidewalk joints where sidewalk is constructed greater than 6 feet wide.

## **28. Concrete Barrier Temporary Precast.**

Perform this work in accordance to standard spec 603, these special provisions, and as hereinafter provided.

Concrete Barrier Temporary Precast shall be 12'-6" in length. Concrete Barrier Temporary Precast 10'-0" will not be allowed.

If the contractor chooses to store materials, equipment or other items that are a hazard within 4-feet of the construction zone side (deflection zone) of the barrier the barrier shall be anchored. The barrier must also be anchored when used on edge of bridge decks or locations where the drop-off exceeds 2-feet, is steeper than 3H:1V and is less than 4-feet from the side of the barrier closest to the drop off. The system must be anchored as shown in the standard detail drawing.

## **29. Storm Sewer Backfill.**

*Replace standard spec 607.3.5(1) with the following:*

(1) Backfill all trenches and excavations immediately after completing sewer construction as shown in the storm sewer backfill construction details of the plans. Native material shall be selected material from excavation that is free from large lumps, clods, or rock. All other backfill material referenced in the storm sewer backfill construction details shall conform to the standard specification standard spec 209.

*Replace standard spec 607.5.1(1) with the following:*

(1) Payment for the Storm Sewer Pipe bid items is full compensation for providing all materials, including all special Y's, mitered sections, elbows and connections required; for excavating and wasting excess material, except rock excavation; for providing and removing sheeting and shoring; for forming foundation; for laying pipe; for sealing joints and making connections to new or existing features; for providing granular backfill material, native material, including bedding material; for backfilling; for cleaning out; and absent the pertinent contract bid items, for restoring the work site.

## **30. Adjusting Manhole Covers.**

This work shall be according to the pertinent provisions of standard spec 611, as shown on the plans, and as hereinafter provided.

Revise standard spec 611.3.7 by deleting the last paragraph.

Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9. At the completion of the paving, a 6-foot straightedge shall be placed over the centerline of each manhole frame parallel to the direction of traffic. A measurement shall be made at each side of the frame. The two measurements shall be averaged. If this average is greater than 5/8 inches, reset the manhole frame to the correct plane and elevation. If this average is 5/8 inches or less but greater than 3/8 inches, the manhole frame shall be allowed to remain in place but shall be paid for at 50 percent of the contract unit price.

If the manhole frame is higher than the adjacent pavement, the two measurements shall be made at each end of the straightedge. These two measurements shall be averaged. The same criteria for acceptance and payment as above, shall apply.

611-005 (20030820)

### **31. Cover Plates Temporary, Item 611.8120.S.**

#### **A Description**

This special provision describes furnishing, installing and removing a steel plate to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

#### **B Materials**

Provide a 0.25-inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

#### **C (Vacant)**

#### **D Measurement**

The department will measure Cover Plates Temporary as units acceptably completed in place.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	Each

Payment is full compensation for furnishing, installing, and removing the cover plates.

The steel plates shall become the property of the contractor when no longer needed in the contract work.

611-006 (20030820)

### **32. Salvaged Rail.**

Remove guardrail in accordance to the pertinent requirements of standard spec 614 and as hereinafter provided.

Carefully remove, disassemble at all joints, and stockpile at a location on the right-of-way, outside the construction limits, all salvageable posts, guardrail and hardware for pickup by Outagamie County forces. Cutting of rail panels is not permitted.

Give two days advanced notice to Outagamie County before starting the beam guard removal work to coordinate pickup arrangements. Contact Randy Roloff at (920) 209-9808.

Remove and properly dispose of all other material from the right-of-way. Remove and dispose of all material rejected by Outagamie County.

### **33. Fence Safety, Item 616.0700.S.**

#### **A Description**

This special provision describes furnishing and installing a plastic fence at locations shown on the plans and as hereinafter provided.

#### **B Materials**

Furnish notched conventional metal “T” or “U” shaped fence posts.

Furnish fence fabric meeting the following requirements.

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1 inch min to 3 inch max
Resin/Construction:	High density polyethylene mesh
Service Temperature:	-60° F to 200° (ASTM D648)
Tensile Yield:	Avg. 2000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

#### **C Construction**

Drive posts into the ground 12 to 18 inches. Space posts at 7 feet.

Use a minimum of three wire ties to secure the fence at each post. Weave tension wire through the top row of strands to provide a top stringer that prevents sagging.

Overlap two rolls at a post and secure with wire ties.

**D Measurement**

The department will measure Fence Safety by the linear foot along the base of the fence, center-to-center of posts, 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
616.0700.S	Fence Safety	LF

Payment is full compensation for furnishing and installing fence and posts; maintaining the fence and posts in satisfactory condition; and for removing and disposing of fence and posts at project completion.

616-030 (20070510)

**34. Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch, Item 646.0841.S; 8-Inch, Item 646.0843.S.**

**A Description**

This special provision describes furnishing, grooving and installing preformed wet reflective pavement marking contrast tape for grooved applications as shown on the plans, according to standard spec 646, and as hereinafter provided.

**B Materials**

Furnish wet reflective pavement marking contrast tape and adhesive material, per manufacturer's recommendation if required, from the department's approved products list.

Furnish a copy of the manufacturer's recommendations to the engineer before preparing the pavement marking grooves.

**C Construction****C.1 General**

For quality assurance, provide the engineer and the region's Marking Section evidence of manufacturer training in the proper placement and installation of pavement marking contrast tape.

Plane the grooved lines according to details in the plan and per manufacturer's recommendations. Use grooving equipment with a free-floating, independent cutting head. Plane a minimum number of passes to create a grooved surface per manufacturer's recommendations.

**C.2 Groove Depth**

Cut the groove to a depth of 120 mils  $\pm$  10 mils from the pavement surface or, if tined, from the high point of the tined surface. To measure the depth, the contractor may use a depth plate placed in the groove and a straightedge placed across the plate and groove, or

the contractor may use a straightedge placed perpendicular to the groove. The department may periodically check groove depths.

### **C.3 Groove Width – Longitudinal Markings**

Cut the groove one-inch wider than the width of the tape.

### **C.4 Groove Position**

Position the groove edge according to plan details. Groove a minimum of 4 inches, but not greater than, 12 inches from both ends of the tape segment. Achieve straight alignment with the grooving equipment.

### **C.5 Groove Cleaning**

#### **C.5.1 Concrete**

Cooling the cutting head with water may be necessary for some applications and equipment. If cooling water is necessary, flush the groove immediately with high-pressure water after cutting to remove any build-up of cement dust and water slurry. If this is not done, the slurry may harden in the groove.

If water is used in the grooving process, allow the groove to dry a minimum of 24 hours after groove cleaning, and prior to pavement marking application. The groove surface shall be clean and dry before applying the adhesive, and the pavement marking tape. Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 120 psi air pressure to clean the groove; use of the air blower does not decrease the amount of time required for the groove to dry.

#### **C.5.2 New Asphalt**

Groove pavement five or more days after paving.

Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

#### **C.5.3 Existing Asphalt**

Check for structural integrity in supporting grooving operations. If the structural integrity of the asphalt pavement is inadequate to support grooving operations, immediately notify the engineer.

Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

### **C.6 Tape Application**

Apply the tape when both the air and surface temperature are 40 degrees F and rising.

Apply tape in the groove as per manufacturer's recommendations. If manufacturer's recommendations require surface preparation adhesive

- 1) For the Southeast Region and the ozone non-attainment Northeast Region counties of Sheboygan, Manitowoc, and Kewaunee:
  - Apply SPA-60 during May 1 to September 30, both dates inclusive due to Volatile Organic Compound Limitations.
  - Apply P-50 during October 1 to April 30, both dates inclusive.
- 2) For the remainder counties:
  - Apply either adhesive.

Refer to the manufacturer's instructions for determining when the surface preparation adhesive is set.

Tamp the wet reflective pavement marking contrast tape with a tamper cart roller, with a minimum of a 200-lb load, cut to fit the groove. Tamp a minimum of three complete cycles (6 passes) with grooved modified tamper roller cart.

#### **D Measurement**

The department will measure Pavement Marking Grooved Wet Reflective Contrast Tape (Width) for grooved applications in length by the linear foot of tape placed according to the contract and accepted.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF
646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF

Payment is full compensation for cleaning and preparing the pavement surface; furnishing and installing the material; and for removing temporary pavement marking, if necessary.  
646-022 (20120615)

### **35. Temporary Pavement Marking Tape 4-Inch.**

*Modify standard spec 649.3.3 (1) to read as follows:*

(3) Remove Temporary Raised Pavement Markers, Temporary Pavement Marking Reflective Tape 4-Inch, and marking applied under the Temporary Pavement Marking Removable Tape bid items without damaging the pavement. The contractor need not remove other temporary markings except as follows:

- Work designated for removal under the Removing Pavement Markings bid items of standard spec 646.
- Temporary marking placed as a contractor option under the same-day marking requirements of standard spec 646.

*Modify standard spec 649.5 (3) to read as follows:*

Payment for the various Temporary Pavement Marking Removable Tape bid items, Temporary Pavement Marking Reflective Tape bid items, and the Temporary Raised Pavement Markers bid items also includes marking removal, including dust and residue collection and disposal. The department will pay separately for contract required removals of other temporary pavement marking under the Removing Pavement Markings bid items as specified in standard spec 646.5 or standard spec 647.5.

### **36. Install Pole Mounted Cabinet, Item 673.0225.S.**

#### **A Description**

This special provision describes installing department furnished aluminum enclosures on poles for intelligent transportation systems equipment.

#### **B Materials**

Use stainless steel bolts, nuts, and washers unless otherwise specified.

All conductors, terminals, and parts that could be hazardous to maintenance personnel shall be protected with suitable insulating material.

The cabinet will be equipped with service panels. Two panels shall be provided and mounted on the cabinet sidewalls. The left side panel shall be designated as “Input/Communications,” and the right side panel shall be designated as the “Service Panel.”

The service panel will be equipped with a four-outlet handi-box. Wire the handi-box to the series portion of the filtering surge protector.

Use metallic conduit, fittings, and adapters required from the underground conduit transition point to the cabinet as part of this item. A typical installation requires on 2-inch conduit. Use metallic conduit in accordance to standard spec 652.

#### **C Construction**

Fasten the field cabinet securely onto a pole. Provide bolted stainless steel connections with lock washers, locking nuts, or other engineer-approved means to prevent the connection nuts from backing off. Isolate dissimilar materials from one another using stainless steel fittings. Make all power connections to the cabinet as specified in standard spec 656.

Drill and tap the cabinet, as necessary, to mount the terminal blocks and other attachments to the service panel, to provide an entrance on the back of the cabinet for cable from the pole mounted intelligent transportation systems equipment, and to mount the service panel to the cabinet as shown in the details. Remove all sharp edges or burrs, or both, caused by the cutting or drilling process. Seal all openings to prevent water from entering the cabinet. Mount the surge protector to the service panel.

Install metallic conduit on the exterior of the pole (for entrance to the cabinet from the ground) as shown in the plans, and in accordance to the applicable requirements of standard spec 652.

**D Measurement**

The department will measure Install Pole Mounted Cabinet as each individual assembly, 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
673.0225.S	Install Pole Mounted Cabinet	Each

Payment is full compensation for installing the pole mounted cabinet; for making all connections and conduit/wire entrances; and for furnishing all testing.  
673-010 (20100630)

**37. Install Ethernet Switch, Item 675.0400.S.**

**A Description**

This special provision describes installing an Ethernet switch, and providing all necessary associated wiring.

**B Materials**

The department will furnish the Ethernet switch. Provide all necessary cables between the Ethernet switch and terminal server or other device.

**C Construction**

Install the Ethernet switch in a new or existing field cabinet. Connect it to devices as shown on the plans, or as directed by the engineer.

**D Measurement**

The department will measure Install Ethernet Switch by the unit, installed in accordance to the contract, tested, and accepted.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
675.0400.S	Install Ethernet Switch	Each

Payment is full compensation for installing an Ethernet switch; furnishing all necessary incidental hardware; and making all necessary connections.  
675-040 (20100630)

### **38. Install Video Encoder, Item 677.0300.S.**

#### **A Description**

This special provision describes installing a state-furnished video encoder in a pole mounted cabinet or field cabinet as shown on the plans and as hereinafter provided.

#### **B Materials**

Provide Category 5 or better Ethernet cable to connect the Ethernet video encoder to the Ethernet switch. The department will furnish the video encoder or it will be an existing and salvaged encoder.

#### **C Construction**

Make the necessary electrical and communication network connections to the video encoder. Mount the video encoder in the pole mounted cabinet or field cabinet. Program the video encoder in accordance to the manufacturer's instructions.

#### **D Measurement**

The department will measure Install Video Encoder by each individual assembly, 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
677.0300.S	Install Video Encoder	Each

Payment is full compensation for installing the video encoder in a pole mounted cabinet or field cabinet; for making all connections; and for furnishing all programming.  
677-030 (20100630)

### **39. Electrical Service.**

#### **A Description**

Work under this item shall be in accordance to standard spec 656 with the following addition.

#### **C Construction**

Under this item, the department will perform preliminary coordination with the utility to arrange for installation of the Service Lateral(s). The Utility will provide the department with a utility routing number for each lateral.

The contractor is responsible to arrange for the actual installation of the Service Lateral with the utility. The contractor is also responsible for payment of the Service Lateral installation in accordance to standard spec 656. The contractor shall contact the department at (920) 492-5628 to obtain the utility routing number established during preliminary utility coordination.

#### **40. Crack and Damage Survey, Item 999.1500.S.**

##### **A Description**

This special provision describes conducting a crack and damage survey of the residences and business located at 3600 N. Richmond Street / 3600 N. Chippewa Street.

This Crack and Damage Survey shall consist of two parts. The first part, performed prior to construction activities, shall include a visual inspection, photographs, and a written report describing the existing defects in the building(s) being inspected. The second part, performed after the construction activities, shall also include a visual inspection, photographs, and written report describing any change in the building's condition.

##### **B (Vacant)**

##### **C Construction**

Prior to any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Submit a written report of the inspector's name, date of inspection, descriptions and locations of defects, and photographs. The intent of the written report and photographs is to procure a record of the general physical condition of the building's interior and exterior walls and foundation. The report shall be typed on bond paper and be in text form.

The photographs shall be taken by a professional photographer capable of producing sharp, grain free, high-contrast colored pictures with good shadow details. The photographs shall be 3½ inch by 5 inch color prints, glossy, and mounted in protective storage pages with clear slip-in pockets and clear background. Each sheet shall hold four prints. The back of each photograph shall contain the following information:

ID \_\_\_\_\_  
Building Location \_\_\_\_\_  
View looking \_\_\_\_\_  
Date \_\_\_\_\_  
Photographer \_\_\_\_\_

Prior to the start of any construction activities pertinent to this survey, submit a copy of the written report and photographs to the engineer.

After the construction activities are complete, conduct another survey in the same manner, take photographs, and submit another written report to the engineer.

In lieu of photographs, a professional videographer may be hired to use a video camera capable of producing a video with the clarity required to perform this work.

**D Measurement**

The department will measure Crack and Damage Survey as single complete 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
999.1500.S	Crack and Damage Survey	LS

Payment is full compensation for providing the before and after written reports, and for photographs or video.

999-010 (20130615)

**41. Double Inlet Structure, Item SPV.0060.01.**

**A Description**

This special provision describes furnishing and installing a custom type inlet structure as shown on the plans and as hereinafter provided.

**B Materials**

Furnish manhole and appurtenances in accordance to standard spec 611.2, Materials.

**C Construction**

In accordance to standard spec 611.3, Construction and as hereinafter provided:

Provide temporary shoring and temporary storm sewer connections as required to construct the inlet structure and to maintain drainage during construction. Temporary shoring (if required) and temporary storm sewer connections shall be considered incidental to this bid item.

**D Measurement**

The department will measure Double Inlet Structure by each individual structure, 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.0060.01	Double Inlet Structure	Each

Payment is full compensation in accordance to standard spec 611.5, Payment.

**42. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 2, Item SPV.0060.02; Arrows Type 3, Item SPV.0060.03; Words, Item SPV.0060.04.**

**A Description**

This special provision describes grooving the pavement surface, and furnishing and installing preformed thermoplastic pavement marking as shown on the plans, in accordance to standard spec 647, and as hereinafter provided.

**B Materials**

Furnish preformed thermoplastic pavement marking and sealant material, if required, from the department's approved products list.

**C Construction**

**C.1 General**

For quality assurance, provide the engineer and the region's Marking Section evidence of manufacturer training in the proper placement and installation of preformed thermoplastic pavement marking.

Plane the grooved lines in accordance to the plan details. Use grooving equipment with a free-floating, independent cutting or grinding head. Plane a minimum number of passes to create a smooth groove.

**C.2 Groove Depth**

Cut the groove to a depth of 120 mils  $\pm$ 10 mils deeper than the thermoplastic thickness, from the pavement surface or, if tined, from the high point of the tined surface. Measure depth using a straightedge placed perpendicular to the groove. The department may periodically check groove depths.

**C.3 Groove Width – Linear Markings**

Cut the groove 1-inch wider than the width of the thermoplastic.

**C.4 Groove Position**

Position the groove edge in accordance to the plan details.

**C.4.1 Linear Marking**

Groove at a minimum of 4-inches, but not greater than, 12-inches from both ends of the line segment. Achieve straight alignment with the grooving equipment.

**C.4.2 Special Marking**

Groove a box around the special marking up to 4 inches from the perimeter of the special marking. Groove multiple boxes for Word Items.

## **C.5 Groove Cleaning**

### **C.5.1 Concrete**

Cooling the cutting head with water may be necessary for some applications and equipment. If cooling water is necessary, flush the groove immediately with water after cutting to remove any build-up of cement dust and water slurry. If this is not done, the slurry may harden in the groove.

If water is used in the grooving process, allow the groove to dry a minimum of 24 hours after groove cleaning, after removal of excess water, and prior to pavement marking application. Clean and dry the groove for proper application of the sealant, and placement of the pavement marking. Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove; use of the air blower does not decrease the amount of time required for the groove to dry.

### **C.5.2 New Asphalt**

Groove pavement 10 or more days after paving. Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

### **C.5.3 Existing Asphalt**

Check for structural integrity in supporting grooving operations. If the structural integrity of the asphalt pavement is inadequate to support grooving operations, immediately notify the engineer.

### **C.5.4 Asphalt**

Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

## **C.6 Preformed Thermoplastic Application**

Preheat the surface if necessary based on manufacturer's recommendation.

**Application of the preformed thermoplastic in the groove without sealant will be as follows:**

- May 1 to September 30, both dates inclusive – the Southeast Region and the ozone non-attainment or maintenance Northeast Region counties of Sheboygan, Manitowoc, Kewaunee, and Door.
- June 1 to August 31 – the Southwest Region, and the Northeast, North Central, and Northwest Regions except for the ozone non-attainment or maintenance Northeast Region counties of Sheboygan, Manitowoc, Kewaunee, and Door.

**Application of the preformed thermoplastic in the groove with sealant materials will be as follows:**

- October 1 to April 30, both dates inclusive – the Southeast Region and the ozone non-attainment or maintenance Northeast Region counties of Sheboygan, Manitowoc, Kewaunee, and Door.
- September 1 to May 31, both dates inclusive – the Southwest Region and the Northeast, North Central, and Northwest Regions, except for the ozone non-attainment or maintenance Northeast Region counties of Sheboygan, Manitowoc, Kewaunee, and Door.

The sealant must be wet.

**D Measurement**

The department will measure Pavement Marking Grooved Preformed thermoplastic by the unit, acceptably placed, or in length by the linear foot of tape placed in accordance to the contract and accepted.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Pavement Marking Grooved Preformed Thermoplastic Arrows Type 2	Each
SPV.0060.03	Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3	Each
SPV.0060.04	Pavement Marking Grooved Preformed Thermoplastic Words	Each

Payment is full compensation for cleaning and preparing the pavement surface, and for furnishing and installing the material.

**43. LED Luminaire, LED–C, Item SPV.0060.05.**

**A Description**

This special provision describes furnishing and installing LED luminaires. Work under this item shall be in accordance to standard spec 659 and this special provision.

**B Materials**

Furnish Luminaires Utility LED from the department qualified product list.

**C Construction**

Under the bid item LED Luminaire, furnish and install luminaires and all necessary miscellaneous accessories and hardware to complete the installation of the luminaires.

The contractor shall follow manufacturer’s instructions regarding luminaire installation.

All exposed threaded equipment mounting hardware shall be stainless steel. All threaded stainless steel hardware and dissimilar metal threaded hardware shall be coated with an approved zinc-based anti-seize compound.

**D Measurement**

The department will measure LED Luminaire, LED-C as each individual lighting 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.0060.05	LED Luminaire, LED-C	Each

Payment is full compensation for providing and installing all materials, including luminaire, accessories, hardware and fittings necessary to install the luminaire.

**44. Remove and Salvage Ramp Gate Pole, Item SPV.0060.06.**

**A Description**

This special provision describes removing, storing and reinstalling an existing ramp gate pole and associated hardware on a new concrete base. Construction of the new concrete base shall be paid for separately.

**B Materials**

Use all existing materials salvaged from the project except for pole wiring. Furnish new pole wiring in accordance to standard spec 655.2.

**C Construction**

Install the ramp gate pole at the locations the plans show. Apply corrosion protection material from the department's approved products list to the interface between the aluminum base and steel pole. The engineer may direct adjustment of the gate arm assembly to ensure the correct vertical and angular orientation of the completed closure gate.

**D Measurement**

The department will measure Remove and Salvage Ramp Gate Pole as each individual installation removed and reinstalled, 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.0060.06	Remove and Salvage Ramp Gate Pole	Each

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

**45. Remove and Salvage Solar Assembly, Item SPV.0060.07.**

**A Description**

This special provision describes removing, storing and reinstalling an existing ramp gate solar assembly pole, cabinet and associated hardware on a new concrete base. Construction of the new concrete base shall be paid for separately.

**B Materials**

Use all existing materials salvaged from the project except for pole wiring. Furnish new pole wiring in accordance to standard spec 655.2.

**C Construction**

Install the solar assembly pole at the locations the plans show. The engineer may direct adjustment of the assembly to ensure the correct orientation of the solar assembly.

**D Measurement**

The department will measure Remove and Salvage Solar Assembly as each individual installation removed and reinstalled, 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.0060.07	Remove and Salvage Solar Assembly	Each

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

**46. Remove and Return Gate Arm, Item SPV.0060.08.**

**A Description**

This special provision describes removing and delivering an existing ramp gate arm to a WisDOT facility.

**B (Vacant)**

**C Construction**

Contact Randy Asman at WisDOT Northeast Region at (920) 492-7719 a minimum of one (1) week prior to removing the existing gate arm. Arrange for removal and delivery of the gate arms. Gate arms damaged in the removal or delivery process shall be replaced in-kind with an equivalent piece of equipment.

**D Measurement**

The department will measure Remove and Return Gate Arm as each individual installation removed and delivered, 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.0060.08	Remove and Return Gate Arm	Each

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

**47. Ramp Gate Arm 24-FT, Item SPV.0060.09; Ramp Gate Arm 40-FT, Item SPV.0060.10.**

**A Description**

This special provision describes furnishing and installation ramp gate arms for installation on salvaged assemblies. Salvage and reinstallation of the existing ramp gate poles are included as separate bid items.

**B Materials**

Furnish aluminum/fiberglass gate arms of the nominal length the bid item indicates and conforming to plan dimensions. Cover gate arms on two sides with alternating red and white shop-applied type H reflective sheeting conforming to standard spec 637 of the standard specifications. Also provide a shear pin base that is the manufacturer's "permanent pivot" style. Obtain components from:

B&B Roadway  
15191 Hwy 243  
Russellville, AL 35654  
Tel: (888) 560-2060

Gate arm: model MU605

**C Construction**

Install gate arms in accordance to the plans and as the manufacturer recommends.

**D Measurement**

The department will measure Ramp Gate Arm (Size) as each individual installation, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Ramp Gate Arm 24-FT	Each
SPV.0060.10	Ramp Gate Arm 40-FT	Each

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

#### **48. Concrete Barrier Temporary Precast Anchoring, Item SPV.0090.11.**

##### **A Description**

This special provision describes anchoring temporary concrete barrier. Perform this work in accordance to applicable portions of standard spec 603 and as hereinafter provided.

##### **B (Vacant)**

##### **C Construction**

Perform this work in accordance to standard spec 603.3.2.1, the plans, and as hereinafter provided.

Under the Concrete Barrier Temporary Precast Anchoring bid item, furnish, deliver, and install anchors at the locations shown in the plans, as required by the project conditions, or as directed by the engineer. Install anchors during the initial installation of the temporary concrete barrier and during any subsequent reinstallations of the temporary concrete barrier as required.

Remove any anchoring during barrier removal and fill remaining holes with epoxy.

##### **D Measurement**

The department will measure Concrete Barrier Temporary Precast Anchoring by the linear foot, acceptably completed, measured as the linear feet of barrier initially installed or reinstalled. The department will not measure anchoring made solely to accommodate the contractor's means and methods.

##### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.11	Concrete Barrier Temporary Precast Anchoring	LF

Payment is full compensation for furnishing, delivering, and installing anchoring devices; for removal of any anchoring devices and filling holes with epoxy.

#### **49. Concrete Pavement Joint Layout, Item SPV.0105.12.**

##### **A Description**

This special provision describes providing a concrete pavement or concrete base joint layout design for intersections and marking the location of all joints in the field.

**B (Vacant)**

**C Construction**

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete to prevent uncontrolled cracking. Submit a joint layout design to the engineer before paving each intersection. Mark the location of all concrete joints in the field. Follow the plan details for joints in concrete marking adjustments as required to fit field conditions.

**D Measurement**

The department will measure Concrete Pavement Joint Layout, as a single lump sum unit of work for all joint layout designs and marking, 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.0105.12	Concrete Pavement Joint Layout	LS

Payment is full compensation for providing the intersection joint layout designs and marking all joints in the field.

The department will adjust pay for crack repairs as specified in the standard spec 415.5.3.

**50. Remove Traffic Signal S-1400, Item SPV.0105.13; S-580, Item SPV.0105.14.**

**A Description**

This work shall consist of removing the existing traffic signal equipment from the intersection of USH 41 and STH 47 and returning it to the WisDOT NE Region Facility at 944 Vanderperren Way, Green Bay, WI as shown in the plans and in accordance to the requirements of standard spec 657 and standard spec 658, standard detail drawings, and as hereinafter provided.

**B (Vacant)**

**C Construction**

The existing traffic signal equipment shall be disconnected from the concrete bases, carefully loaded, and transported to the WisDOT NE Region facility as described above. All signal heads and luminaires should remain attached to the standard, pole or respective mast arm. The contractor shall conduct operations in such a manner to prevent any damage to the traffic signal equipment. The contractor shall replace or repair any equipment that was damaged during this removal and transport operation. Prior to delivering the removed equipment, the contractor shall make arrangements with the WisDOT NE Region

Electrical Personnel who can be reached at (920) 492-5654 or (920) 492-5710 for delivery to the regional facility.

**D Measurement**

The department will measure Remove Traffic Signal (Number) bid item 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 items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.13	Remove Traffic Signal S-1400	LS
SPV.0105.14	Remove Traffic Signal S-580	LS

Payment for Remove Traffic Signal is full compensation for removal, disassembly, and delivery to the regional facility.

**51. Water for Seeded Areas, Item SPV.0120.14.**

**A Description**

This special provision describes furnishing, hauling and applying water to seeded areas as directed by the engineer, and as hereinafter provided.

**B Materials**

When watering seeded areas, use clean water, free of impurities or substances that might injure the seed.

**C Construction**

If rainfall is not sufficient, keep all seeded areas thoroughly moist by watering or sprinkling. Water for 30 days after seed placement or as the engineer directs. Apply water in a manner to preclude washing or erosion. The topsoil shall not be left un-watered for more than 3 days during this 30-day period unless the engineer determines that it is excessively wet and does not require watering. The equivalent of one inch of rainfall per week shall be considered the minimum.

**D Measurement**

The department will measure Water for Seeded Areas by volume by the thousand gallon units (MGAL), acceptably completed. The department will determine volume by engineer-approved meters or from tanks of known capacity.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0120.14	Water for Seeded Areas	MGAL

Payment is full compensation for furnishing, hauling, and applying the water.

## **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 2014 edition of the standard specifications:*

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**101.3 Definitions**

*Replace the definition of semi-final estimate with the following effective with the December 2013 letting:*

**Semi-final estimate** An estimate indicating the engineer has measured and reported all contract quantities and materials requirements.

---

**105.11.1 Partial Acceptance**

*Replace paragraph two with the following effective with the December 2013 letting:*

- (2) Partial acceptance will relieve the contractor of maintenance responsibility for the designated portion of the work. By relieving the contractor of maintenance, the department does not relieve the contractor of responsibility for defective work or damages caused by the contractor's operations. Do not construe partial acceptance to be conditional final acceptance or final acceptance of any part of the project, or a waiver of any legal rights specified under 107.16.
- 

**105.11.2 Final Acceptance**

*Retitle and replace the entire text with the following effective with the December 2013 letting:*

**105.11.2 Project Acceptance****105.11.2.1 Inspection****105.11.2.1.1 General**

- (1) Notify the engineer when the project is substantially complete as defined in 105.11.2.1.3. As soon as it is practical, the engineer will inspect the work and categorize it as one of the following:
  1. Unacceptable or not complete.
  2. Substantially complete.
  3. Complete.

**105.11.2.1.2 Unacceptable or Not Complete**

- (1) The engineer will identify, in writing, work that is unacceptable or not complete. Immediately correct or complete that work. The engineer will assess contract time until the work is corrected or completed.
- (2) Proceed as specified in 105.11.2.1.1 until the engineer determines that the work is complete.

**105.11.2.1.3 Substantially Complete**

- (1) The project is substantially complete and the engineer will no longer assess contract time if the contractor has completed all contract bid items and change order work, except for the punch-list. As applicable, the following must have occurred:
  1. All lanes of traffic are open on a finished surface.
  2. All signage and traffic control devices are in place and operating.
  3. All drainage, erosion control, excavation, and embankments are completed.
  4. All safety appurtenances are completed.
- (2) The engineer will provide a written punch-list enumerating work the contractor must perform and documents the contractor must submit before the the engineer will categorize the work as complete.
  1. Punch-list work includes uncompleted cleanup work required under 104.9 and minor corrective work. Immediately correct or complete the punch-list work. The engineer may restart contract time if the contractor does not complete the punch-list work within 5 business days after receiving the written punch-list. The engineer and contractor may mutually agree to extend this 5-day requirement.
  2. Punch-list documents include whatever contract required documentation is missing. The engineer may restart contract time if the contractor does not submit the punch-list documents within 15 business days after receiving the written punch-list. The engineer and contractor may mutually agree to extend this 15-day requirement.

- (3) Proceed as specified in 105.11.2.1.1 until the work is complete.

**105.11.2.1.4 Complete**

- (1) The project is complete when the contractor has completed all contract bid items, change order work, and punch-list work including the submission of all missing documentation.

**105.11.2.2 Conditional Final Acceptance**

- (1) When the engineer determines that the project is complete, the engineer will give the contractor written notice of conditional final acceptance relieving the contractor of maintenance responsibility for the completed work.

**105.11.2.3 Final Acceptance**

- (1) The engineer will grant final acceptance of the project after determining that all contract is work complete; all contract, materials, and payroll records are reviewed and approved; and the semi-final estimate quantities are final under 109.7.
- (2) Failure to discover defective work or materials before final acceptance does not prevent the department from rejecting that work or those materials later. The department may revoke final acceptance if the department discovers defective work or materials after it has accepted the work.
- 

**105.13.3 Submission of Claim**

Replace paragraph one with the following effective with the December 2013 letting:

- (1) Submit the claim to the project engineer as promptly as possible following the submission of the Notice of Claim, but not later than final acceptance of the project as specified in 105.11.2.3. If the contractor does not submit the claim before final acceptance of the project, the department will deny the claim.
- 

**107.17.3 Railroad Insurance Requirements**

Replace paragraph one with the following effective with the December 2013 letting:

- (1) If required by the special provisions, provide or arrange for a subcontractor to provide railroad protective liability insurance in addition to the types and limits of insurance required in 107.26. Keep railroad protective liability insurance coverage in force until completing all work, under or incidental to the contract, on the railroad right of way or premises of the railroad and until the engineer determines that the work is complete as specified in 105.11.2.1.4.

**107.26 Standard Insurance Requirements**

*Replace paragraph one with the following effective with the December 2013 letting:*

- (1) Maintain the following types and limits of commercial insurance in force until the engineer determines that the work is complete as specified in 105.11.2.1.4.

**TABLE 107-1 REQUIRED INSURANCE AND MINIMUM COVERAGES**

TYPE OF INSURANCE	MINIMUM LIMITS REQUIRED <sup>[1]</sup>
1. Commercial general liability insurance endorsed to include blanket contractual liability coverage. <sup>[2]</sup>	\$2 million combined single limits per occurrence with an annual aggregate limit of not less than \$4 million.
2. Workers' compensation.	Statutory limits
3. Employers' liability insurance.	Bodily injury by accident: \$100,000 each accident Bodily injury by disease: \$500,000 each accident \$100,000 each employee
4. Commercial automobile liability insurance covering all contractor-owned, non-owned, and hired vehicles used in carrying out the contract. <sup>[2]</sup>	\$1 million-combined single limits per occurrence.

<sup>[1]</sup> The contractor may satisfy these requirements with primary insurance coverage or with excess/umbrella policies.

<sup>[2]</sup> The Wisconsin Department of Transportation, its officers, agents, and employees shall be named as an additional insured under the general liability and automobile liability insurance.

**108.14 Terminating the Contractor's Responsibility**

*Replace paragraph one with the following effective with the December 2013 letting:*

- (1) The contractor's responsibilities are terminated, except as set forth in the contract bond and specified in 107.16, when the department grants final acceptance as specified in 105.11.2.3.

**109.2 Scope of Payment**

*Replace paragraph two with the following effective with the December 2013 letting:*

- (2) The department will pay for the quantity of work acceptably completed and measured for payment as the measurement subsection for each bid item specifies. Within the contract provide means to furnish and install the work complete and in-place. Payment is full compensation for everything required to perform the work under the applicable bid items including, but not limited to, the work elements listed in the payment subsection. Payment also includes all of the following not specifically excluded in that payment subsection:
1. Furnishing and installing all materials as well as furnishing the labor, tools, supplies, equipment, and incidentals necessary to perform the work.
  2. All losses or damages, except as specified in 107.14, arising from one or more of the following:
    - The nature of the work.
    - The action of the elements.
    - Unforeseen difficulties encountered during prosecution of the work.
  3. All insurance costs, expenses, and risks connected with the prosecution of the work.
  4. All expenses incurred because of an engineer-ordered suspension, except as specified in 104.2.2.3.
  5. All infringements of patents, trademarks, or copyrights.
  6. All other expenses incurred to complete and protect the work under the contract.

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**109.6.1 General**

*Replace paragraphs three and four with the following effective with the December 2013 letting:*

- (3) The department's payment of an estimate before conditional final acceptance of the work does not constitute the department's acceptance of the work, and does not relieve the contractor of responsibility for:
    1. Protecting, repairing, correcting, or renewing the work.
    2. Replacing all defects in the construction or in the materials used in the construction of the work under the contract, or responsibility for damage attributable to these defects.
  - (4) The contractor is responsible for all defects or damage that the engineer may discover on or before the engineer's conditional final acceptance of the work. The engineer is the sole judge of these defects or damage, and the contractor is liable to the department for not correcting all defects or damage.
- 

**109.7 Acceptance and Final Payment**

*Replace paragraphs one and two with the following effective with the December 2013 letting:*

- (1) After the engineer grants conditional final acceptance of the work as specified in 105.11.2.2 and reviews required document submittals and materials test reports, the engineer will issue the semi-final estimate.
  - (2) Within 30 calendar days after receiving the semi-final estimate, submit to the engineer a written statement of agreement or disagreement with the semi-final estimate. For an acceptable statement of disagreement, submit an item-by-item list with reasons for each disagreement. If the contractor does not submit this written statement within those 30 days, the engineer will process the final estimate for payment. The engineer and the contractor can mutually agree to extend this 30-day submission requirement.
- 

**450.3.3 Maintaining the Work**

*Replace paragraph one with the following effective with the December 2013 letting:*

- (1) Protect and repair the prepared foundation, tack coat, base, paved traffic lanes, shoulders, and seal coat. Correct all rich or bleeding areas, breaks, raveled spots, or other nonconforming areas in the paved surface.
- 

**455.3.2.5 Maintaining Tack Coat**

*Replace paragraph one with the following effective with the December 2013 letting:*

- (1) Protect and repair the existing surface and the tack coat. Correct areas with excess or deficient tack material and any breaks, raveled spots, or other areas where bond might be affected.
- 

**520.3.8 Protection After Laying**

*Delete the entire subsection.*

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**614.2.1 General**

*Replace paragraphs five and six with the following effective with the December 2013 letting:*

- (5) Furnish zinc coated wire rope and fitting conforming to the plans and galvanized according to ASTM A741.
- (6) Before installation store galvanized components above ground level and away from surface run off. The department may reject material if the zinc coating is physically damaged or oxidized.
- (7) Provide manufacturer's drawings, and installation and maintenance instructions when providing proprietary systems.

---

**614.2.3 Steel Rail and Fittings**

Replace paragraph one with the following effective with the December 2013 letting:

- (1) Furnish galvanized steel rail conforming to AASHTO M180 class A, type II beam using the single-spot test coating requirements. Furnish plates, anchor plates, post mounting brackets, and other structural steel components conforming to 506.2.2.1 and hot-dip galvanized according to ASTM A123.

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**614.2.7 Crash Cushions**

Replace paragraph one with the following effective with the December 2013 letting:

- (1) Furnish permanent and temporary crash cushions from the department's approved products list. Use cushions as wide or wider than the plan back-width. Furnish transitions conforming to the crash cushion manufacturer's design and specifications. Submit manufacturer crash cushion and transition design details to engineer before installing.

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**616.3.1 General**

Replace paragraph six with the following effective with the December 2013 letting:

- (6) Remove and dispose of all excess excavation and surplus materials from the fence site.

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**618.3.3 Restoration**

Replace paragraph one with the following effective with the December 2013 letting:

- (1) Upon termination of hauling operations and before conditional final acceptance, restore all haul roads, including drainage facilities and other components, to the equivalent of pre-hauling conditions.

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**627.3.1 General**

Replace paragraph four with the following effective with the December 2013 letting:

- (4) Maintain the mulched areas and repair all areas damaged by wind, erosion, traffic, fire or other causes.

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**637.3.2.1 General**

Delete paragraph three effective with the December 2013 letting.

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**670.3.4.2 Post-Construction Work**

Replace paragraph one with the following effective with the December 2013 letting:

- (1) Submit 5 copies of ITS documentation including but not limited to the following:
  - Operator's manual: for contractor furnished equipment, submit a manual containing detailed operating instructions for each different type or model of equipment and or operation performed.
  - Maintenance procedures manuals: for contractor furnished equipment, submit a manual containing detailed preventive and corrective maintenance procedures for each type or model of equipment furnished.
  - Cabinet fiber optic wiring diagram: submit a cabinet wiring diagram, identified by location for each cabinet. Include both electrical wiring and fiber optic conductor and cable connections. Place one copy of the fiber optic wiring diagram in a weatherproof holder in the cabinet. Deliver the other copies to the engineer.
  - As-built drawings: submit final as-built drawings that detail the final placement of all conduit, cabling, equipment, and geometric modifications within the contract. Provide all documentation in an electronic format adhering to the region's ITS computer aided drafting standards and according to the department's as-built requirements. The department will review the as-built drawings for content and electronic format. Modify both the content and format of as-built drawings until meeting all requirements.
  - Equipment inventory list: submit an inventory list including serial number, make, model, date installed, and location installed of all equipment installed under the contract.

## Errata

*Make the following corrections to the 2013 edition of the standard specifications:*

### 415.3.14 Protecting Concrete

*Correct errata by referencing the opening to service specification.*

- (1) Erect and maintain suitable barricades and, if necessary, provide personnel to keep traffic off the newly constructed pavement until it is opened for service as specified in 415.3.15. Conform to 104.6 for methods of handling and facilitating traffic.

### 501.2.9 Concrete Curing Materials

*Correct errata by changing AASHTO M171 to ASTM C171.*

- (2) Furnish sheeting conforming to ASTM C171 for white opaque polyethylene film, except that the contractor may use clear or black polyethylene for cold weather protection.

### 607.2 Materials

*Correct errata by changing AASHTO M198 to ASTM C990.*

- (1) Use materials conforming to the requirements for the class of material named and specified below.
 

Composite pipe, couplings, fittings and joint materials .....	ASTM D2680
Annular rubber and plastic gaskets for flexible, watertight joints .....	ASTM C990
External rubber gaskets, mastic, and protective film.....	ASTM C877
Mortar .....	519.2.3

### 637.2.1.3 Sheet Aluminum

*Correct errata by changing ASTM B449 to B921 and eliminating the specification for coating thickness.*

- (4) Degrease, etch, and coat the sign blank on both sides with a chromate treatment conforming to ASTM B921, class 2.

### 637.3.3.4 Performance

*Correct errata to reference to 105.11.2.3 as revised to implement changes to the finals process.*

- (1) Under 105.11.2.3 the department may revoke acceptance and direct the contractor to repair or replace previously accepted sign installations if the department subsequently discovers evidence of defective materials or improper installation. Deficiencies that warrant department action include but are not limited to the following:
  - Sign posts more than five degrees out of plumb.
  - Signs twisted by more than 5 degrees from plan orientation.
  - Signs with delaminated or warped plywood.
  - Signs with bubbling, fading, delaminating, or buckling sheeting.

### 646.3.3.4 Proving Period

*Correct errata to reference to 105.11.2.3 as revised to implement changes to the finals process.*

- (4) Replace all marking within sections with a percent failing more than 10% and repair or replace all markings that, in the engineer's assessment, show evidence of improper construction. If post-acceptance inspections uncover evidence of defective materials or improper construction, the department may revoke acceptance under 105.11.2.3.

**ADDITIONAL SPECIAL PROVISION 7**

- A. Reporting 1<sup>st</sup> 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://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm>

(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://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/crc-basic-info.pdf>

**APRIL 2013**

### **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 2-28.4 to ensure compliance with this "Buy America" provision.

<http://roadwaystandards.dot.wi.gov/standards/cmm/cm-02-28.pdf#cm2-28.4>

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://roadwaystandards.dot.wi.gov/standards/forms/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  
OUTAGAMIE COUNTY**

Compiled by the State of Wisconsin - Department of Workforce Development  
for the Department of Transportation  
Pursuant to s. 103.50, Stats.  
Issued on September 1, 2013

**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	35.58	19.20	54.78
Carpenter	30.16	15.31	45.47
Cement Finisher	31.52	16.60	48.12
Future Increase(s): Add \$1.87 on 6/1/13; Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16.			
Premium 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	37.25	15.35	52.60
Fence Erector	28.00	4.50	32.50
Ironworker	28.03	21.97	50.00
Line Constructor (Electrical)	31.29	15.34	46.63
Painter	21.87	11.37	33.24
Pavement Marking Operator	24.10	16.09	40.19
Piledriver	30.66	15.31	45.97
Roofer or Waterproofer	20.00	7.66	27.66
Teledata Technician or Installer	21.26	11.75	33.01
Tuckpointer, Caulker or Cleaner	30.76	16.42	47.18
Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	33.35	14.21	47.56
Light Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.50	15.09	50.59
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
<b>TRUCK DRIVERS</b>			
Single Axle or Two Axle	33.22	18.90	52.12
Three or More Axle	23.31	17.13	40.44
Future Increase(s): Add \$1.85/hr on 6/1/2013. 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.			
Articulated, Euclid, Dumptor, Off Road Material Hauler	27.77	19.90	47.67
Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. 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: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .			
Pavement Marking Vehicle	23.99	14.70	38.69
Shadow or Pilot Vehicle	33.22	18.90	52.12
Truck Mechanic	22.50	16.19	38.69
<b>LABORERS</b>			
General Laborer	28.07	13.90	41.97
Future Increase(s): Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. Premium Pay: Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New 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	19.97	3.63	23.60
Landscaper	28.07	13.90	41.97
Future Increase(s): Add \$1.70/hr on 6/1/13; Add \$1.60/hr on 6/1/14. 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	24.70	13.90	38.60
Future Increase(s): Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. 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 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)	17.81	12.22	30.03
Railroad Track Laborer	23.41	15.14	38.55

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
<b>HEAVY EQUIPMENT OPERATORS</b>			
Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. 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: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .	35.22	19.90	55.12
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 \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. 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: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .	34.72	19.90	54.62
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 Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A- Frames. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	34.22	19.90	54.12

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
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: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .			
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.	33.96	19.90	53.86
Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. 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: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .			
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; Oilier; 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.	33.67	19.90	53.57
Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. 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: <a href="http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm">http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm</a> .			
Fiber Optic Cable Equipment.	25.74	15.85	41.59

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

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

## SECTION 0001 CONTRACT ITEMS

0010	201.0105 CLEARING	9.000 STA	.		.	
0020	201.0120 CLEARING	78.000 ID	.		.	
0030	201.0205 GRUBBING	9.000 STA	.		.	
0040	201.0220 GRUBBING	78.000 ID	.		.	
0050	203.0200 REMOVING OLD STRUCTURE (STATION) 01. 410+80.66 SBR	LUMP	LUMP		.	
0060	203.0200 REMOVING OLD STRUCTURE (STATION) 01. 410+81.256 NBR	LUMP	LUMP		.	
0070	203.0225.S DEBRIS CONTAINMENT (STRUCTURE) 01. B-44-35	LUMP	LUMP		.	
0080	203.0225.S DEBRIS CONTAINMENT (STRUCTURE) 02. B-44-36	LUMP	LUMP		.	
0090	204.0100 REMOVING PAVEMENT	17,200.000 SY	.		.	
0100	204.0110 REMOVING ASPHALTIC SURFACE	2,200.000 SY	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	204.0150 REMOVING CURB & GUTTER	484.000 LF	.		.	
0120	204.0155 REMOVING CONCRETE SIDEWALK	729.000 SY	.		.	
0130	204.0170 REMOVING FENCE	1,039.000 LF	.		.	
0140	204.0175 REMOVING CONCRETE SLOPE PAVING	914.000 SY	.		.	
0150	204.0180 REMOVING DELINEATORS AND MARKERS	28.000 EACH	.		.	
0160	204.0195 REMOVING CONCRETE BASES	29.000 EACH	.		.	
0170	204.0210 REMOVING MANHOLES	1.000 EACH	.		.	
0180	204.0220 REMOVING INLETS	15.000 EACH	.		.	
0190	204.0245 REMOVING STORM SEWER (SIZE) 01. 12-INCH	616.000 LF	.		.	
0200	204.0245 REMOVING STORM SEWER (SIZE) 02. 18-INCH	12.000 LF	.		.	
0210	204.0245 REMOVING STORM SEWER (SIZE) 03. 24-INCH	28.000 LF	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	204.0291.S ABANDONING SEWER	6.000 CY	.		.	
0230	205.0100 EXCAVATION COMMON	15,344.000 CY	.		.	
0240	206.1000 EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-44-35	LUMP	LUMP		.	
0250	206.1000 EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 02. B-44-36	LUMP	LUMP		.	
0260	208.0100 BORROW	7,306.000 CY	.		.	
0270	210.0100 BACKFILL STRUCTURE	708.000 CY	.		.	
0280	213.0100 FINISHING ROADWAY (PROJECT) 01. 1130-33-71	1.000 EACH	.		.	
0290	305.0110 BASE AGGREGATE DENSE 3/4-INCH	720.000 TON	.		.	
0300	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	10,646.000 TON	.		.	
0310	311.0110 BREAKER RUN	19,367.000 TON	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0320	415.0100 CONCRETE PAVEMENT 10-INCH	20,090.000 SY	.		.	
0330	415.0410 CONCRETE PAVEMENT APPROACH SLAB	174.000 SY	.		.	
0340	416.0160 CONCRETE DRIVEWAY 6-INCH	65.000 SY	.		.	
0350	416.0610 DRILLED TIE BARS	257.000 EACH	.		.	
0360	416.0620 DRILLED DOWEL BARS	201.000 EACH	.		.	
0370	455.0105 ASPHALTIC MATERIAL PG58-28	13.000 TON	.		.	
0380	460.1100 HMA PAVEMENT TYPE E-0.3	203.000 TON	.		.	
0390	460.2000 INCENTIVE DENSITY HMA PAVEMENT	130.000 DOL	1.00000		130.00	
0400	465.0125 ASPHALTIC SURFACE TEMPORARY	780.000 TON	.		.	
0410	465.0315 ASPHALTIC FLUMES	177.000 SY	.		.	
0420	502.0100 CONCRETE MASONRY BRIDGES	1,064.000 CY	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0430	502.3200 PROTECTIVE SURFACE TREATMENT	2,558.000 SY	.		.	
0440	502.5005 MASONRY ANCHORS TYPE L NO. 5 BARS	968.000 EACH	.		.	
0450	502.5010 MASONRY ANCHORS TYPE L NO. 6 BARS	20.000 EACH	.		.	
0460	502.5015 MASONRY ANCHORS TYPE L NO. 7 BARS	18.000 EACH	.		.	
0470	503.0136 PRESTRESSED GIRDER TYPE I 36-INCH	610.000 LF	.		.	
0480	505.0605 BAR STEEL REINFORCEMENT HS COATED BRIDGES	200,520.000 LB	.		.	
0490	506.2605 BEARING PADS ELASTOMERIC NON-LAMINATED	120.000 EACH	.		.	
0500	506.4000 STEEL DIAPHRAGMS (STRUCTURE) 01. B-44-35	42.000 EACH	.		.	
0510	506.4000 STEEL DIAPHRAGMS (STRUCTURE) 02. B-44-36	42.000 EACH	.		.	
0520	506.7050.S REMOVING BEARINGS (STRUCTURE) 01. B-44-35	58.000 EACH	.		.	
0530	506.7050.S REMOVING BEARINGS (STRUCTURE) 02. B-44-36	60.000 EACH	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0540	506.7060.S BRIDGE JACKING (STRUCTURE) 01. B-44-35	LUMP	LUMP		.	
0550	506.7060.S BRIDGE JACKING (STRUCTURE) 02. B-44-36	LUMP	LUMP		.	
0560	509.1500 CONCRETE SURFACE REPAIR	465.000 SF	.		.	
0570	513.4055 RAILING TUBULAR TYPE H (STRUCTURE) 01. B-44-35	LUMP	LUMP		.	
0580	513.4055 RAILING TUBULAR TYPE H (STRUCTURE) 02. B-44-36	LUMP	LUMP		.	
0590	516.0500 RUBBERIZED MEMBRANE WATERPROOFING	88.000 SY	.		.	
0600	520.8000 CONCRETE COLLARS FOR PIPE	3.000 EACH	.		.	
0610	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	6.000 EACH	.		.	
0620	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	3.000 EACH	.		.	
0630	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A	102.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0640	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A	5,495.000 LF	.		.	
0650	601.0413 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE G	76.000 LF	.		.	
0660	601.0452 CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE D	445.000 LF	.		.	
0670	601.0551 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	625.000 LF	.		.	
0680	601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A	1,325.000 LF	.		.	
0690	601.0600 CONCRETE CURB PEDESTRIAN	139.000 LF	.		.	
0700	602.0405 CONCRETE SIDEWALK 4-INCH	35,845.000 SF	.		.	
0710	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	236.000 SF	.		.	
0720	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	3,200.000 LF	.		.	
0730	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	3,200.000 LF	.		.	
0740	604.0600 SLOPE PAVING SELECT CRUSHED MATERIAL	1,096.000 SY	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0750	606.0200 RIPRAP MEDIUM	415.000 CY	.		.	
0760	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	985.000 LF	.		.	
0770	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	838.000 LF	.		.	
0780	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	24.000 LF	.		.	
0790	611.0530 MANHOLE COVERS TYPE J	1.000 EACH	.		.	
0800	611.0624 INLET COVERS TYPE H	35.000 EACH	.		.	
0810	611.0627 INLET COVERS TYPE HM	6.000 EACH	.		.	
0820	611.0642 INLET COVERS TYPE MS	2.000 EACH	.		.	
0830	611.2004 MANHOLES 4-FT DIAMETER	5.000 EACH	.		.	
0840	611.2006 MANHOLES 6-FT DIAMETER	3.000 EACH	.		.	
0850	611.3230 INLETS 2X3-FT	32.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0860	611.3901 INLETS MEDIAN 1 GRATE	2.000 EACH	.		.	
0870	611.8110 ADJUSTING MANHOLE COVERS	8.000 EACH	.		.	
0880	611.8120.S COVER PLATES TEMPORARY	5.000 EACH	.		.	
0890	611.9710 SALVAGED INLET COVERS	1.000 EACH	.		.	
0900	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH	300.000 LF	.		.	
0910	614.0150 ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	8.000 EACH	.		.	
0920	614.0220 STEEL THRIF BEAM BULLNOSE TERMINAL	2.000 EACH	.		.	
0930	614.0230 STEEL THRIF BEAM	400.000 LF	.		.	
0940	614.0395 GUARDRAIL MOW STRIP CONCRETE	281.000 SY	.		.	
0950	614.0905 CRASH CUSHIONS TEMPORARY	4.000 EACH	.		.	
0960	614.0920 SALVAGED RAIL	905.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0970	614.1200 MGS GUARDRAIL TEMPORARY TRANSITION EAT	3.000 EACH	.		.	
0980	614.2500 MGS THRIE BEAM TRANSITION	120.000 LF	.		.	
0990	614.2610 MGS GUARDRAIL TERMINAL EAT	4.000 EACH	.		.	
1000	616.0204 FENCE CHAIN LINK 4-FT	1,145.000 LF	.		.	
1010	616.0208 FENCE CHAIN LINK 8-FT	472.000 LF	.		.	
1020	616.0700.S FENCE SAFETY	250.000 LF	.		.	
1030	619.1000 MOBILIZATION	1.000 EACH	.		.	
1040	620.0100 CONCRETE CORRUGATED MEDIAN	5,650.000 SF	.		.	
1050	620.0300 CONCRETE MEDIAN SLOPED NOSE	670.000 SF	.		.	
1060	625.0500 SALVAGED TOPSOIL	23,000.000 SY	.		.	
1070	627.0200 MULCHING	17,865.000 SY	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1080	628.1504 SILT FENCE	3,350.000	.		.	
	LF					
1090	628.1520 SILT FENCE MAINTENANCE	1,670.000	.		.	
	LF					
1100	628.1905 MOBILIZATIONS EROSION CONTROL	12.000	.		.	
	EACH					
1110	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	4.000	.		.	
	EACH					
1120	628.2004 EROSION MAT CLASS I TYPE B	3,100.000	.		.	
	SY					
1130	628.2006 EROSION MAT URBAN CLASS I TYPE A	5,135.000	.		.	
	SY					
1140	628.7005 INLET PROTECTION TYPE A	41.000	.		.	
	EACH					
1150	628.7010 INLET PROTECTION TYPE B	2.000	.		.	
	EACH					
1160	628.7015 INLET PROTECTION TYPE C	47.000	.		.	
	EACH					
1170	628.7504 TEMPORARY DITCH CHECKS	280.000	.		.	
	LF					
1180	628.7570 ROCK BAGS	150.000	.		.	
	EACH					

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1190	629.0210 FERTILIZER TYPE B	14.000 CWT	.		.	
1200	630.0130 SEEDING MIXTURE NO. 30	325.000 LB	.		.	
1210	630.0140 SEEDING MIXTURE NO. 40	95.000 LB	.		.	
1220	630.0200 SEEDING TEMPORARY	485.000 LB	.		.	
1230	631.1000 SOD LAWN	200.000 SY	.		.	
1240	633.0100 DELINEATOR POSTS STEEL	30.000 EACH	.		.	
1250	633.0500 DELINEATOR REFLECTORS	30.000 EACH	.		.	
1260	633.5200 MARKERS CULVERT END	9.000 EACH	.		.	
1270	634.0614 POSTS WOOD 4X6-INCH X 14-FT	19.000 EACH	.		.	
1280	634.0616 POSTS WOOD 4X6-INCH X 16-FT	53.000 EACH	.		.	
1290	634.0618 POSTS WOOD 4X6-INCH X 18-FT	18.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1300	637.1220 SIGNS TYPE I REFLECTIVE SH	201.000 SF	.		.	
1310	637.2210 SIGNS TYPE II REFLECTIVE H	986.420 SF	.		.	
1320	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING	99.680 SF	.		.	
1330	637.2230 SIGNS TYPE II REFLECTIVE F	51.000 SF	.		.	
1340	638.2601 REMOVING SIGNS TYPE I	2.000 EACH	.		.	
1350	638.2602 REMOVING SIGNS TYPE II	137.000 EACH	.		.	
1360	638.3000 REMOVING SMALL SIGN SUPPORTS	92.000 EACH	.		.	
1370	642.5001 FIELD OFFICE TYPE B	1.000 EACH	.		.	
1380	643.0100 TRAFFIC CONTROL (PROJECT) 01. 1130-33-71	1.000 EACH	.		.	
1390	643.0300 TRAFFIC CONTROL DRUMS	87,585.000 DAY	.		.	
1400	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	13,714.000 DAY	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1410	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	150.000 EACH	.		.	
1420	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	150.000 EACH	.		.	
1430	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	7,379.000 DAY	.		.	
1440	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	17,565.000 DAY	.		.	
1450	643.0800 TRAFFIC CONTROL ARROW BOARDS	610.000 DAY	.		.	
1460	643.0900 TRAFFIC CONTROL SIGNS	11,015.000 DAY	.		.	
1470	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I	2.000 EACH	.		.	
1480	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE	263.000 SF	.		.	
1490	643.1050 TRAFFIC CONTROL SIGNS PCMS	180.000 DAY	.		.	
1500	643.2000 TRAFFIC CONTROL DETOUR (PROJECT) 01. 1130-33-71	1.000 EACH	.		.	
1510	643.3000 TRAFFIC CONTROL DETOUR SIGNS	31,320.000 DAY	.		.	

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N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1520	645.0120 GEOTEXTILE FABRIC TYPE HR	1,570.000 SY	.		.	
1530	646.0106 PAVEMENT MARKING EPOXY 4-INCH	7,050.000 LF	.		.	
1540	646.0126 PAVEMENT MARKING EPOXY 8-INCH	1,140.000 LF	.		.	
1550	646.0600 REMOVING PAVEMENT MARKINGS	1,850.000 LF	.		.	
1560	646.0841.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH	55.000 LF	.		.	
1570	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH	1,800.000 LF	.		.	
1580	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2	1.000 EACH	.		.	
1590	647.0456 PAVEMENT MARKING CURB EPOXY	60.000 LF	.		.	
1600	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH	150.000 LF	.		.	
1610	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY	6.000 EACH	.		.	

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1130-33-71FEDERAL ID(S):  
N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1620	647.0766 PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	835.000 LF	.		.	
1630	647.0856 PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY	2,305.000 SF	.		.	
1640	647.0955 REMOVING PAVEMENT MARKINGS ARROWS	1.000 EACH	.		.	
1650	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH	5,200.000 LF	.		.	
1660	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	8,280.000 LF	.		.	
1670	650.4000 CONSTRUCTION STAKING STORM SEWER	44.000 EACH	.		.	
1680	650.4500 CONSTRUCTION STAKING SUBGRADE	4,376.000 LF	.		.	
1690	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT	4,376.000 LF	.		.	
1700	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 1130-33-71	LUMP	LUMP		.	
1710	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1130-33-71	LUMP	LUMP		.	

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N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1720	650.9920 CONSTRUCTION STAKING SLOPE STAKES	4,376.000 LF	.		.	
1730	652.0125 CONDUIT RIGID METALLIC 2-INCH	60.000 LF	.		.	
1740	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	640.000 LF	.		.	
1750	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	3,376.000 LF	.		.	
1760	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	1,910.000 LF	.		.	
1770	652.0800 CONDUIT LOOP DETECTOR	650.000 LF	.		.	
1780	653.0105 PULL BOXES STEEL 12X24-INCH	14.000 EACH	.		.	
1790	653.0135 PULL BOXES STEEL 24X36-INCH	3.000 EACH	.		.	
1800	653.0140 PULL BOXES STEEL 24X42-INCH	26.000 EACH	.		.	
1810	653.0222 JUNCTION BOXES 18X12X6-INCH	4.000 EACH	.		.	
1820	653.0905 REMOVING PULL BOXES	25.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1830	654.0101 CONCRETE BASES TYPE 1	9.000 EACH	.		.	
1840	654.0102 CONCRETE BASES TYPE 2	2.000 EACH	.		.	
1850	654.0105 CONCRETE BASES TYPE 5	9.000 EACH	.		.	
1860	654.0110 CONCRETE BASES TYPE 10	2.000 EACH	.		.	
1870	654.0113 CONCRETE BASES TYPE 13	4.000 EACH	.		.	
1880	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	2.000 EACH	.		.	
1890	654.0220 CONCRETE CONTROL CABINET BASES TYPE 10	4.000 EACH	.		.	
1900	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG	3,690.000 LF	.		.	
1910	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG	600.000 LF	.		.	
1920	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG	1,310.000 LF	.		.	
1930	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED	2,640.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1940	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	7,040.000 LF	.		.	
1950	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	1,800.000 LF	.		.	
1960	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG	285.000 LF	.		.	
1970	655.0700 LOOP DETECTOR LEAD IN CABLE	1,980.000 LF	.		.	
1980	655.0800 LOOP DETECTOR WIRE	1,740.000 LF	.		.	
1990	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. S-1400	LUMP	LUMP		.	
2000	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. S-580	LUMP	LUMP		.	
2010	656.0500 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (LOCATION) 01. CCTV-44-0076	LUMP	LUMP		.	
2020	657.0100 PEDESTAL BASES	9.000 EACH	.		.	
2030	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	7.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2040	657.0315 POLES TYPE 4	2.000	.		.	
	EACH					
2050	657.0322 POLES TYPE 5-ALUMINUM	5.000	.		.	
	EACH					
2060	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT	2.000	.		.	
	EACH					
2070	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT	2.000	.		.	
	EACH					
2080	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT	5.000	.		.	
	EACH					
2090	657.0709 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 12-FT	2.000	.		.	
	EACH					
2100	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT	4.000	.		.	
	EACH					
2110	657.1350 INSTALL POLES TYPE 10	2.000	.		.	
	EACH					
2120	657.1360 INSTALL POLES TYPE 13	4.000	.		.	
	EACH					
2130	657.1530 INSTALL MONOTUBE ARMS 30-FT	2.000	.		.	
	EACH					
2140	657.1540 INSTALL MONOTUBE ARMS 40-FT	2.000	.		.	
	EACH					

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2150	657.1555 INSTALL MONOTUBE ARMS 55-FT	2.000 EACH	.		.	
2160	657.1812 INSTALL LUMINAIRE ARMS STEEL 12-FT	6.000 EACH	.		.	
2170	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL	18.000 EACH	.		.	
2180	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL	4.000 EACH	.		.	
2190	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH	18.000 EACH	.		.	
2200	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH	4.000 EACH	.		.	
2210	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH	12.000 EACH	.		.	
2220	658.0500 PEDESTRIAN PUSH BUTTONS	4.000 EACH	.		.	
2230	658.0600 LED MODULES 12-INCH RED BALL	18.000 EACH	.		.	
2240	658.0605 LED MODULES 12-INCH YELLOW BALL	18.000 EACH	.		.	
2250	658.0610 LED MODULES 12-INCH GREEN BALL	18.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2260	658.0615 LED MODULES 12-INCH RED ARROW	4.000 EACH	.		.	
2270	658.0620 LED MODULES 12-INCH YELLOW ARROW	8.000 EACH	.		.	
2280	658.0625 LED MODULES 12-INCH GREEN ARROW	4.000 EACH	.		.	
2290	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH	12.000 EACH	.		.	
2300	658.5069 SIGNAL MOUNTING HARDWARE (LOCATION) 01. S-1400	LUMP	LUMP		.	
2310	658.5069 SIGNAL MOUNTING HARDWARE (LOCATION) 02. S-580	LUMP	LUMP		.	
2320	658.5069 SIGNAL MOUNTING HARDWARE (LOCATION) 03. S-805	LUMP	LUMP		.	
2330	659.0802 PLAQUES SEQUENCE IDENTIFICATION	2.000 EACH	.		.	
2340	670.0100 FIELD SYSTEM INTEGRATOR	LUMP	LUMP		.	
2350	670.0200 ITS DOCUMENTATION	LUMP	LUMP		.	
2360	672.0250 BASE CAMERA POLE 50-FT	1.000 EACH	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2370	673.0225.S INSTALL POLE MOUNTED CABINET	1.000 EACH	.		.	
2380	674.0200 CABLE MICROWAVE DETECTOR	115.000 LF	.		.	
2390	675.0300 INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY	1.000 EACH	.		.	
2400	675.0400.S INSTALL ETHERNET SWITCH	1.000 EACH	.		.	
2410	677.0100 INSTALL CAMERA POLE	1.000 EACH	.		.	
2420	677.0200 INSTALL CAMERA ASSEMBLY	1.000 EACH	.		.	
2430	677.0300.S INSTALL VIDEO ENCODER	1.000 EACH	.		.	
2440	690.0250 SAWING CONCRETE	2,626.000 LF	.		.	
2450	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT	1,674.000 DOL	1.00000		1674.00	
2460	715.0502 INCENTIVE STRENGTH CONCRETE STRUCTURES	6,504.000 DOL	1.00000		6504.00	
2470	999.1500.S CRACK AND DAMAGE SURVEY	LUMP	LUMP		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2480	SPV.0060 SPECIAL 01. DOUBLE INLET STRUCTURE	1.000 EACH	.		.	
2490	SPV.0060 SPECIAL 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2	8.000 EACH	.		.	
2500	SPV.0060 SPECIAL 03. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3	4.000 EACH	.		.	
2510	SPV.0060 SPECIAL 04. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	4.000 EACH	.		.	
2520	SPV.0060 SPECIAL 05. LED LUMINAIRE, LED-C	12.000 EACH	.		.	
2530	SPV.0060 SPECIAL 06. REMOVE AND SALVAGE RAMP GATE POLE	4.000 EACH	.		.	
2540	SPV.0060 SPECIAL 07. REMOVE AND SALVAGE SOLAR ASSEMBLY	4.000 EACH	.		.	
2550	SPV.0060 SPECIAL 08. REMOVE AND RETURN GATE ARM	4.000 EACH	.		.	
2560	SPV.0060 SPECIAL 09. RAMP GATE ARM 24-FT	2.000 EACH	.		.	
2570	SPV.0060 SPECIAL 10. RAMP GATE ARM 40-FT	2.000 EACH	.		.	

## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20131210015PROJECT(S):  
1130-33-71FEDERAL ID(S):  
N/A

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2580	SPV.0090 SPECIAL 11. CONCRETE BARRIER TEMPORARY PRECAST ANCHORING	3,200.000 LF	.		.	
2590	SPV.0105 SPECIAL 12. CONCRETE PAVEMENT JOINT LAYOUT	LUMP	LUMP		.	
2600	SPV.0105 SPECIAL 13. REMOVE TRAFFIC SIGNAL S-1400	LUMP	LUMP		.	
2610	SPV.0105 SPECIAL 14. REMOVE TRAFFIC SIGNAL S-580	LUMP	LUMP		.	
2620	SPV.0120 SPECIAL 15. WATER FOR SEEDED AREAS	520.000 MGAL	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	



**PLEASE ATTACH SCHEDULE OF ITEMS HERE**