

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
06/2017 s.66.0901(7) Wis. Stats

Proposal Number: **010**

<u>COUNTY</u>	<u>STATE PROJECT ID</u>	<u>FEDERAL PROJECT</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Racine	2440-12-60	N/A	Washington Ave, City Of Racine; West Blvd To Marquette Street	STH 020

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 Date: February 13, 2018 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time 61 Working Days	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 0 %	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

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

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work: Mill, Grade, Base, Storm Sewer, Sanitary Sewer, Asphalt Pavement, Sidewalk, Gurb & Gutter, Signing, Signals, Pavement Marking	For Department Use Only
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

In connection with the performance of work under this contract, the contractor agrees to comply with all applicable state and federal statutes relating to non-discrimination in employment. No otherwise qualified person shall be excluded from employment or otherwise be subject to discrimination in employment in any manner on the basis of age, race, religion, color, gender, national origin or ancestry, disability, arrest or conviction record (in keeping with s.111.32), sexual orientation, marital status, membership in the military reserve, honesty testing, genetic testing, and outside use of lawful products. This provision shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor further agrees to ensure equal opportunity in employment to all applicants and employees and to take affirmative action to attain a representative workforce.

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

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

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

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

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

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

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

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

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

B Submitting Electronic Bids

B.1 On the Internet

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

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

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

Bidder

Name

BN00

Proposals: 1, 12, 14, & 22

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

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

C Waiver of Electronic Submittal

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

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 2440-12-60, Washington Avenue, City of Racine, West Blvd to Marquette Street, STH 20, Racine 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, 2018 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 (20170615)

2. Scope of Work.

The work under this contract shall consist of asphaltic milling, asphaltic base patching, HMA pavement, concrete curb and gutter, concrete sidewalk, pavement marking, signing, 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.

A General

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

Provide the time frame for construction of the project within the 2018 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

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

B Work Restrictions

Comply with all local ordinances which apply to work operations, including those related to nighttime hours. Furnish any and all variances issued by the City of Racine to the engineer in three working days before performing such work.

The existing pavement consists of asphaltic concrete pavement over rubblized concrete pavement. Where milling or patching operations expose the underlying rubblized concrete, place new asphaltic pavement over the rubblized concrete during the same working day to prevent infiltration of rain or surface water of any kind.

C Staging and Detours

Close westbound STH 20 traffic and all on-street parking for the duration of the project.

Establish detour for westbound STH 20 traffic on Main Street, 14th Street, STH 32, 16th Street, and West Avenue as the plans show and as directed by the engineer.

Establish a truck detour routing traffic to STH 31, STH 11, STH 32, 14th Street, and Main Street as the plans show and as directed by the engineer.

Perform the work in the following general stages:

Stage 1 – Detour all westbound STH 20 traffic and close westbound lanes, close parking/outside lane, and place eastbound traffic on two 15-foot lanes along the centerline. Further restrict eastbound traffic to one lane where manhole work is present at the centerline. Adjust and repair storm sewer inlets and manholes, reconstruct curb ramps, and repair sidewalk. Perform repairs to sanitary sewer mains and manholes.

Stage 2 – Continue closure of all on-street parking and westbound traffic, maintain two lanes of eastbound one-way traffic in the two eastbound lanes. Mill westbound roadway, perform asphaltic longitudinal joint repair / patching, and place HMA overlay.

Stage 3 -- Continue closure of all on-street parking and westbound traffic, maintain two lanes of eastbound one-way traffic in the two westbound lanes. Mill eastbound roadway, perform asphaltic longitudinal joint repair / patching, and place HMA overlay.

Stage 4 – Close STH 20 (east and westbound directions) at the Union Pacific Railroad (UPRR) between 12th Street and 13th Street. Coordinate date of this closure with UPRR closure. Railroad flaggers will be required. Establish a local detour for the work near the railroad crossing as the plans show and as the engineer directs. Stage 4 work will consist of boring a sanitary sewer work and paving.

4. Traffic.

Supplement standard spec 643.3.1 with the following:

Provide the Racine County Sheriff's Department, the Wisconsin State Patrol, the City of Racine Police Department, and the engineer a current telephone number with which the

contractor or his representative can be contacted during non-working hours in the event a safety hazard develops.

Provide 24-hour a day availability of sufficient experienced personnel, equipment, and materials to promptly restore barricades, lights, or other traffic control devices that are damaged or disturbed.

Place traffic control devices for work in the proper location before operations proceed. Traffic Control is subject to change at the direction of the engineer.

Do not park or store equipment, contractor's and personal vehicles or construction materials within the clear zone or on any roadway carrying traffic during working and non-working hours except at locations and periods of time approved by the engineer.

Do not permit construction or personnel equipment or vehicles to directly cross the live traffic lanes of the freeway. Yield to all through traffic at all locations. Equip all vehicles or equipment operating in the live traffic lanes with a hazard identification beam (flashing yellow signal light) that is visible from 360 degrees. Operate the flashing yellow beam only when merging or exiting live traffic lanes or when parked or operating on shoulders. Do not park personal vehicles within the access control limits of the freeway. Do not cross live freeway traffic lanes with equipment or vehicles

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

Do not disturb, remove or obliterate any traffic control signs, advisory signs, sand barrel array, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer.

Do not use flag persons to direct, control, or stop freeway traffic. Obtain approval from the engineer to use a flag person to direct, control, or stop local street traffic. Adhere to the Manual of Uniform Traffic Control Devices chapter 6E standard requirements for flagger control.

Replace standard spec 643.3.1. (7) with the following:

Provide equipment, forces, and materials to promptly restore any traffic control devices or pavement markings damaged or disturbed within two hours of being contacted.
SER-643.1 (20170620)

Transit

The eastbound bus route will be maintained along STH 20. Provide temporary bus stops as the plans show and as the engineer directs during Stages 1 and 3. Maintain bus rider access during Stage 2 which will use the existing sidewalk and bus stops along the south side of STH 20. Coordinate with transit according to the Notice to Contractor - The Belle Urban System article of these special provisions.

Side Roads

The following intersections shall remain open throughout the project:

- Grange: Right-turn STH 20 to Grange only.
- Wright: Wright traffic to enter STH 20, stop sign condition, right turn only.
- Taylor: Right in, right out with stop sign condition. Signal to convert to stop condition.
- Valley and Philips: Signal to convert to all-way stop condition.
- Memorial: Right in, right out with stop sign condition.
- 14th Street and Junction: STH 20 traffic right in, right out with stop sign condition at 14 Street.
- Junction: 14th Street traffic right-in, right-out to with stop sign condition.
- 12th Street: Signal to convert to 2 way stop sign condition.
- STH 32 Racine Street: Signal to convert to stop condition at STH 32, free flow eastbound STH 20. 11th Street to close.
- Marquette Street: Signal to convert to stop condition at Marquette, free flow eastbound STH 20. 9th Street to close.
- The following signalized intersection will close during the project: Ann Street.

Use short term closures under flaggers to mill and pave the above areas.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.
stp-108-057 (20161130)

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying IH 41, IH 94, STH 11, STH 20, STH 31, or STH 32 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:

- From noon Friday, May 25, 2018 to 6:00 AM Tuesday, May 29, 2018 for Memorial Day;
- From noon Friday, June 29, 2018 to 6:00 AM Monday, July 9, 2018 for Independence Day;
- From noon Friday, August 31, 2018 to 6:00 AM Tuesday, September 4, 2018 for Labor Day.

stp-107-005 (20050502)

6. Utilities.

The provisions of administrative rule TRANS 220 do not apply to this project.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are anticipated for this construction project. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

When utility adjustments become necessary during construction the utility owner will make the required adjustments in coordination with the contractor's construction operation.

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

107-SER4 (20101021)

The following utility owners have facilities within the project area:

AT&T Local Network. Teleport Communications d.b.a. AT&T Local Network has facilities within the project limits. AT&T Local Network has reviewed the proposed plan and concluded there are no conflicts.

The AT&T Local Network field contact is Jennifer Navarro at (414) 459-3564 or (414) 651-0036 mobile.

AT&T Wisconsin. AT&T Wisconsin has facilities within the project limits. AT&T Wisconsin has reviewed the proposed plan and concluded the following:

AT&T Wisconsin has 28 manhole frames and covers within the project limits but does not intend to perform any adjustments since the covers are at the same elevation as the existing pavement.

The AT&T field contact is Mark Eder at (262) 896-7434.

City of Racine – Communications and Electric. City of Racine–Communications and Electric has reviewed the proposed plan and has concluded there are no conflicts requiring any relocations or any work by the city.

The following three locations where the City of Racine has fiber optic cable in conduit were identified by the city:

- STH 20 at Taylor Ave west side of intersection: 96ct SM fiber optic cable crossing.
- STH 20 at Racine Street (STH 32) just north of the intersection and again crossing Racine Street at STH 20: Two 48ct hybrid fiber optic cable crossings.
- STH 20 at Marquette Street, crossing Marquette Street just west of the intersection with STH 20: 96ct SM and 48ct hybrid fiber optic cable crossing.

The city does not anticipate adjustments or relocations to the above 3 locations, or to the rest of the traffic signals and street lighting and fiber optic communication facilities due to the proposed construction.

The City of Racine - Communications and Electric field contact is Ara P. Molitor, Traffic Engineer, at (262) 636-9487.

City of Racine - Sewer. The City of Racine Department of Public Works has storm and sanitary sewer facilities within the project limits. WisDOT will include facility work to be completed during construction as part of this project under a non-participating category, paid for by the City of Racine.

The work under this category includes removing and replacing sanitary manholes, spot replacement of sanitary sewer pipe, and spot replacement of WYE connectors. Sanitary sewer pipe replacement will include a bored crossing beneath the Union Pacific Railroad.

The City of Racine – Sewer field contact is John C. Rooney, P. E., Assistant Commissioner of Public Works/City Engineer, at (262) 636-9460 or (262) 620-4615 mobile.

City of Racine - Water. The City of Racine Department of Public Works has water facilities within the project limits. No relocation is planned within project extents.

Valve box adjustments will be performed during paving operations. Contractor shall provide notification by calling (262) 636-9437 at least 24 hours ahead of the planned valve box adjustments.

The City of Racine – Water field contact is Chad Regalia, P. E., Chief Engineer, Racine Water and Wastewater Utilities, at (262) 497-4611 mobile.

PaeTec Communications. PaeTec Communications has reviewed the proposed plan and concluded that no conflicts are anticipated.

The PaeTec Communications field contact is Nathan Becker at (414) 313-9032.

Time Warner Cable. Charter d.b.a. Time Warner Cable has aerial and underground facilities within the project limits. The aerial Charter d.b.a. Time Warner Cable facilities are located on We Energies poles. Time Warner Cable has reviewed the proposed plan and concluded no conflicts are anticipated.

The Time Warner Cable field contact is Steve Cramer at (414) 277-4045 or (414) 688-2385 mobile.

We Energies – Electric. We Energies – Electric has underground and aerial facilities within the project limits. We Energies – Electric has reviewed the proposed plan and concluded there are no known electric conflicts. No relocation is planned.

We Energies – Electric has existing discontinued underground electrical facilities crossing at Station 115+75 and at Station 136+40.

The We Energies (Electric) field contact person is Josh Mount at (414) 218-2053.

It is imperative that the highway contractor contact We Energies before removing any gas facilities or electrical underground cables, to verify that they have been discontinued and carry no natural gas or electrical current. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut, or drill an unmarked facility without explicit consent from We Energies. Contractor must call We Energies 24 hour Dispatch lines to arrange verification.

We Energies Electric Dispatch, 1 (800) 662-4797

We Energies Gas Dispatch, 1 (800) 261-5325

We Energies – Gas. We Energies – Gas has underground facilities within the project limits. We Energies – Gas has reviewed the proposed plan and concluded the following:

The following relocation is planned: Removal and replacement of Gas Valve 52297 located at Station 163+90, 30 LT. Work to be completed prior to construction.

Valve box adjustments may be performed during construction. Contractor to coordinate with We Energies Gas.

The We Energies - Gas field contact person is James Nelson at (414) 944-5540 or (414) 315-1189 mobile.

7. Municipality Acceptance of Sanitary Sewer and Water Main Construction.

The City of Racine personnel will inspect construction of sanitary sewer under this contract. Construction staking, testing, and acceptance of the sanitary sewer and water main construction will be by the City of Racine.

stp-105-001 (20140630)

8. Railroad Insurance and Coordination - Union Pacific Railway Company.

A Description

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

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3.

Insurance is filed in the name of Union Pacific Railway Company.

Notify evidence of the required coverage, and duration to Danielle Allen, Contract Administrator; 1400 Dodge Street, Stop 1690, Omaha, NE 68179; Telephone (402) 544-8020; E-mail: danielleallen@up.com.

Also send a copy to Paul Derksen, SE Region Railroad Coordinator; 141 N. W. Barstow Street, Waukesha, WI 53188; Telephone (262) 548-8770; E-mail: paul.derksen@dot.wi.gov.

Include the following information on the insurance document:

Project: 2440-12-30/60

Project Location: Racine, WI

Route Name: STH 20 (Washington Ave- City of Racine)

Railroad Subdivision: Kenosha Subdivision

Crossing ID: Crossing ID 176693L

Railroad Milepost: MP 60.91

Work Performed: Resurface existing asphaltic pavement up to the edge of the existing concrete railroad crossing. Replace sanitary sewer beneath the existing railroad crossing.

A.2 Train Operation

Approximately two through freight trains operate daily at up to 25 mph.

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

Construction Contact

John Venice, Manager Special Projects – Industry & Public Projects Engineering Department; 101 North Wacker Drive – Suite 1920, Chicago, IL 60606; Telephone (312) 777-2043; E-mail jnvenice@up.com for consultation on railroad requirements during construction.

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

Flagging Contact

See Construction Contact. If more than 30 days of flagging is required contact UP 30 days prior to needing a flagger on site. Reference the Wisconsin Milepost and Subdivision located in A.1.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact the UP Call Before You Dig line at (800) 336-9193 at least five working days before the locate is needed. Normal business hours are 6:30 AM to 6:30 PM, Central Time, Monday through Friday, except holidays and are subject to change. Calls will be routed at all times in case of an emergency. Reference the Wisconsin Milepost and Subdivision located in A.1.

UP will only locate railroad owned cable buried in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

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

A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

A.6 Rail Security Awareness and Contractor Orientation

Prior to entry on railroad right-of-way, the contractor shall arrange for on-line security awareness and contractor orientation training and testing, and be registered through “e-RAILSAFE” for all contractor and subcontractor employees working on railroad right-of-way. See e-railsafe.com “Information”. The security awareness and contractor orientation training is shown under the railroad’s name.

The department has secured right of entry to railroad property; neither the contractor nor subcontractors or their employees will be required to sign a right of entry form.

The security awareness and contractor orientation certification is valid for 2 year(s) and must be renewed for projects that will carry over beyond the 2 year period. Contractor and subcontractor employees shall wear the identification badge issued by e-RAILSAFE when on railroad right-of-way. Costs associated with training and registration are incidental to other items in the contract.

stp 107-026 (20170615)

9. Notice to Contractor – Contamination beyond Construction Limits.

Contaminated soil is present at the following sites:

- STH 20 Station 159+90 to 160+15, from reference line to project limits right, from 2' to 4' bgs (SW Quad of STH 20 and S. Memorial Drive, WDNR BRRTS No. 03-52-000441, 04-52-041699, 04-52-552730, and 03-52-004215). Soil at this site is contaminated with metals.
- STH 20 Station 192+25 to 196+00, from project limits right, from 1' to 4' bgs (STH 20/STH 32, SW and NE of 10th Street, WDNR BRRTS No. 02-52-556365). Soil at this site is contaminated with metals.

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

The Hazardous Materials Report is available by contacting:

Name: Andrew Malsom
Address: 141 NW Barstow Street, PO Box 798, Waukesha, WI 53187-0798
Phone: (262) 548-6705
Fax: (262) 548-6891
E-mail: andrew.malsom@dot.wi.gov

10. Archaeological Sites.

There are known archaeological sites along the project corridor. The following sites are in the project area:

- 47RA13/BRA-0051 (Slauson Group) – Located along STH 20 from Kearney to Phillips (Sta. 142+50 to Sta. 155+00).
- 47RA21/BRA-0054 (Mound Cemetery Group) – Located west of project limit, along STH 20 from Hayes Avenue to 12th Street.

- BRA-0018 (Mound Cemetery) – Located west of project, along the north side of STH 20 from West Avenue to 12th Street, and along north side of 12th Street.

For Site 47RA13/BRA-0051 (Slauson Group) - The department has obtained authorization from the Wisconsin Historical Society (WHS) under Wisconsin State Statute 157.70 to perform the work under the 2440-12-60 Washington Avenue – City of Racine (STH 20) Contract. Sites shall not be used for borrow or waste disposal. Do not use the site area not currently capped by asphalt/concrete for the staging of personnel, equipment, and/or supplies. The department will arrange to have an archaeologist present to monitor all project-related ground-disturbing activities beyond the existing back edge of sidewalk or below existing subgrade within the boundaries of the burial sites. No ground-disturbing work shall be permitted if the archaeologist is not present.

The WHS Authorization is valid for a period of one year after it is granted and expires August 22, 2018. No work within the above listed sites shall occur later than 12:01 AM August 22, 2018.

For Sites BRA-0018 (Mound Cemetery) & BRA-0054 (Mound Cemetery Group) - No ground-disturbing work beyond the back edge of existing sidewalk shall be permitted.

11. Erosion Control.

The contractor shall prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering according to Chapter TRANS 401 requirements. The erosion control implementation plan shall supplement information shown on the plans and shall not reproduce it. The erosion control implementation plan will identify how the contractor intends to implement the project's erosion control plan.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to WisDOT and 1 copy of the ECIP to the WDNR Liaison (*Kristina Betzold, (414) 263-8517*). Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

Re-topsoil graded areas, as designated by the engineer, immediately after grading is completed within those areas. Place seed, fertilizer, and mulch/erosion mat on top-soiled areas, as designated by the engineer, within 5 calendar days after placement of topsoil. If graded areas are left exposed for more than 14 calendar days, seed those areas with temporary seed and mulch.

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

Stockpile excess material or spoils on upland areas away from wetlands, floodplains and waterways. Stockpiled soil shall be protected against erosion. If stockpiled material is left for more than 14 calendar days, seed the stockpile with temporary seed and mulch.

Do not pump water from the construction site to a storm water conveyance without the water first passing through a sediment trap or filter bag.

12. 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 10:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.
stp-107-001 (20060512)

Prior to waiving the noise compliance by the engineer, provide 48-hour advance notice to Mr. John Rooney, City of Racine Engineer, at (262) 636-9191 regarding the evening noise-generating construction operations and locations.

13. Notice to Contractor - The Belle Urban System.

The City of Racine operates the Belle Urban System (The BUS) including one or more routes within the construction limits. Notify the City of Racine and the BUS representatives at least ten days prior to beginning work and invite them to all project coordination meetings between the contractor, the department, local officials and business people to discuss the project schedule and operations. The City of Racine contact is Michael Maierle, (262) 636-9480 and the BUS representative is Willie McDonald, (262) 619-2443.

The City of Racine and the BUS will remove their existing bus stop signs and shelters. Notify the City of Racine and the BUS at least 14 days in advance. City of Racine and the BUS will install new bus stop signs and shelters prior to the opening of traffic on the new roadway pavement. Notify the City of Racine and the BUS at least 10 days prior to opening new pavement to vehicular traffic.

The contractor shall provide a safe boarding zone that is clear of debris and ADA compliant at each temporary bus stop. The City of Racine and the BUS will install temporary bus stop signs if notified at least ten days in advance.

14. Coordination with Businesses and Residents.

The department will arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting 3 to 4 weeks before construction, then a meeting one week prior to the start of work under this contract, and hold a meeting one week prior to each traffic staging change.

The contractor shall arrange for a suitable location for the meeting(s) that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for the meeting(s). The contractor shall schedule the meeting(s) with at least 2 weeks prior notice to the engineer to allow for these notifications.

Stp-108-060 (20141107)

15. Removing Loop Detector Wire and Lead-in Cable STH 20 & Taylor Ave, Item 204.9105.S.01; STH 20 & Phillips Ave, Item 204.9105.02; STH 20 & STH 32 (Racine St), Item 204.9105.S.03.

A Description

This special provision describes removing loop detector wire and lead-in cable at the intersections of STH 20 with Taylor Avenue Phillips Ave, and STH 32 (Racine St), as shown on the plans, in accordance to the pertinent provisions of standard spec 204, and as hereinafter provided.

B (Vacant)

C Construction

Notify the City of Racine, Department of Public Works at least five working days prior to the removal of the loop detector wire and lead-in cable. The City of Racine - Communications & Electric field contact is Ara P. Molitor, Traffic Engineer, at (262) 636-9487. Do not proceed with removal until authorized by the City. Notify the WisDOT field engineer two working days prior to removal.

Remove and dispose of detector lead-in cable including loop wire for abandoned loops off the project site.

D Measurement

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

E Payment

Add the following to standard spec 204.5:

204.9105.S.01	Removing Loop Detector Wire and Lead-In Cable STH 20 & Taylor Ave	LS
204.9105.S.02	Removing Loop Detector Wire and Lead-In Cable STH 20 & Phillips Ave	LS
204.9105.S.03	Removing Loop Detector Wire and Lead-In Cable STH 20 & STH 32 (Racine St)	LS

SER-204.7 (20170412)

16. QMP Base Aggregate.

A Description

A.1 General

- (1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.
- (2) Conform to standard spec 301, standard spec 305, and standard spec 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.
- (3) Do not apply this special provision to material placed and paid for under the Aggregate Detours, 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://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/rdwy/default.aspx>

A.2 Small Quantities

- (1) The department defines a small quantity, for each individual Base Aggregate bid item, as a contract 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:

A.2.1 Quality Control Plan

- (1) Submit an abbreviated quality control plan consisting of the following:
 1. Organizational chart including names, telephone numbers, current certification(s) with HTCP number(s), and expiration date(s), and roles and responsibilities of all persons involved in the quality control program for material under affected bid items.

A.2.2 Contractor Testing

1.

Contract Quantity	Minimum Required Testing per source
≤ 6000 tons	One stockpile test prior to placement, and two production or one loadout test. ^{[1] [2]}
> 6000 tons and ≤ 9000 tons	One stockpile and Three placement tests ^[3] [4] [5]

- ^[1] Submit production test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.
- ^[2] If the actual quantity overruns 6,000 tons, on the next day of placement perform one randomly selected placement test for each 3000 tons, or fraction of 3000 tons, of overrun.
- ^[3] If the actual quantity overruns 9000 tons, on the next day of placement perform one randomly selected placement test for each 3000 tons, or fraction of 3000 tons, of overrun.
- ^[4] For 3-inch material or lift thickness of 3-inch or less, obtain samples at load-out.
- ^[5] Divide the aggregate into uniformly sized sublots for testing
2. Stockpile testing for concrete pavement recycled in place will be sampled on the first day of production.
3. Until a four point running average is established, individual placement tests will be used for acceptance. 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. 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.

A.2.3 Department Testing

- (1) The department will perform testing as specified in B.8 except as follows:
- Department stockpile verification testing prior to placement is optional for contract quantities of 500 tons or less.

B Materials

B.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.
- (2) Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in each of the contractor's laboratories as changes are adopted. Ensure that the plan provides the following elements:

1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
3. A list of source and processing locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
4. Test results for wear, sodium sulfate soundness, freeze/thaw soundness, and plasticity index of all aggregates requiring QC testing. Obtain this information from the region materials unit or from the engineer.
5. Descriptions of stockpiling and hauling methods.
6. Locations of the QC laboratory, retained sample storage, and where control charts and other documentation is posted.
7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

B.2 Personnel

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

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

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

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

B.3 Laboratory

- (1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section
3502 Kinsman Blvd.
Madison, WI 53704
Telephone: (608) 246-5388

<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/qual-labs.aspx>

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 one business day after obtaining a sample. 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 one business day after obtaining a sample. 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 placement tests, include only QC placement 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) Perform one stockpile test from each source prior to placement.
- (3) Test gradation once per 3000 tons of material placed or fraction thereof. 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 or lift thickness of 3-inch or less 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.

- (4) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for seven calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.
- (5) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.
- (6) 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.
- (7) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

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

B.6.2 Fracture

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

B.6.3 Liquid Limit and Plasticity

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

B.7 Corrective Action

B.7.1 General

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

B.7.2 Placement Corrective Action

- (1) Do not blend additional material on the roadbed to correct gradation problems.
- (2) Notify the engineer whenever the running average exceeds a warning limit. When two 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 four 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 four 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 two 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. Perform one stockpile test from each source prior to 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 or for a lift thickness of 3-inch or less, the department will collect samples 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 according to CMM 8-10.5.2 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.

stp-301-010 (20170615)

17. Reconstructing Inlets, Reconstructing Manholes, Adjusting Manhole Covers, and Inlet Covers.

Add the following to standard spec 611.3.7:

The replacement of Grade "A" concrete when adjusting manhole covers in areas of bituminous resurfacing shall be to the top of the existing concrete base as shown on the detail for adjusting manhole covers. Use construction methods that conform to the requirements set forth in standard spec 611.3.3.

Add the following to standard spec 611.5:

Removal and replacement of concrete pavement to accomplish the work shall be incidental to the cost of work. Removal and replacement of concrete curb and gutter will be paid for under items Removing Curb and Gutter and Concrete Curb and Gutter, 30-Inch Type D. SER-611.1 (20161216)

18. Longitudinal Joint Repair.

A Description

This special provision describes Longitudinal Joint Repair by milling the existing pavement and placing tack coat and filling with asphaltic surface or asphaltic surface patching as shown on the plans and hereinafter provided.

B Materials

Furnish tack coat meeting the requirements specified under standard spec 455.2.5. Furnish asphaltic surface meeting the requirements specified under standard spec 465.2

C Construction

C.1 Process: Perform Removing Asphaltic Surface Milling according to the requirements specified under standard spec 204.3.2.2.2 and as follows: Mill a 2-foot wide strip of pavement centered over exposed existing longitudinal joints at the locations shown on the plans or as directed by the engineer, after the upper 2 ¼ inches has been removed by previous milling. Extend the 2-foot wide strip a depth of 2 ¼ inches or to the top of the existing underlying rubblized concrete pavement, whichever is less. Apply tack coat according to standard spec 455.3.2. Place and compact asphaltic surface or asphaltic surface patching according to standard spec 465, matching to the existing exposed surface.

C.2 Same-Day Requirement: Place the asphaltic surface or asphaltic surface patching within the same day the joint is milled, so that rain or other surface water does not enter the underlying rubblized concrete pavement.

D Measurement

The department will measure the Longitudinal Joint Repair under the respective bid items 204.0120 Removing Asphaltic Surface Milling (SY), 465.0605 Tack Coat (GAL), and 465.0110 Asphaltic Surface Patching (Ton).

E Payment

The Longitudinal Joint Repair will be paid under respective bid items 204.0120 Removing Asphaltic Surface Milling (SY), 465.0605 Tack Coat (GAL), and 465.0110 Asphaltic Surface Patching (Ton).

19. Signs Type I and II.

Furnish and install mounting brackets per approved product list for type II signs on overhead sign supports incidental to sign. For type II signs on sign bridges use aluminum vertical support beams noted above incidental to sign.

Modify standard spec 637.2.4 with the following:

Use stainless steel bolts, washers and nuts for type I and type II signs mounted on sign bridges or type I signs mounted on overhead sign supports. Use clips on every joint for Sign Plate A 4-6 when mounted on a sign bridge or overhead sign support. Inspect installation of clips and assure bolts and nuts are tightened to manufacturers recommended torque values.

Use aluminum vertical sign support beams that have a 5-inch wide flange and weigh 3.7 pounds per foot, if the L-brackets are 4 inches wide then use 4 inch wide flange beams weighing 3.06 pounds per foot. Contractor shall measure the width of the L-brackets on existing structures of determine the width needed for sign support beams

Use beams a minimum of 6 feet in length or equal to the height of the sign to be supported, whichever is greater. Use U-bolts that are made of stainless steel, 1/2 inch diameter and of the proper size to fit the truss cords of each sign bridge. Install vertical sign support beams on each sign and use new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss.

For type II signs on overhead sign supports follow the approved product list for mounting brackets.

Replace standard spec 637.2.4.1(2)2 with the following:

Clips may be either stainless steel or ASTM B 108, aluminum alloy, 356.0-T6.

Append standard spec 637.3.2.1(3) with the following:

Provide the engineer with three copies of drawings of the signs proposed to be furnished under this contract for approval.

Append standard spec 637.3.3.2(2) with the following:

Install Type I Signs at the offset stated in the plan, which shall be the clear distance between the edge of mainline pavement right edgeline and the near edge of the sign.

Append standard spec 637.3.3.3(3) with the following:

Furnish and install new aluminum vertical sign support beams on each sign and new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss for Type I or Type II Signs and Type I signs on overhead sign supports incidental to sign.

637-SER1 (20120401)

20. City of Racine Sanitary Sewer.

A General

A.1 Description

The work under this category includes removing and replacing sanitary manholes, spot replacement of sanitary sewer pipe, and spot replacement of WYE connectors. Said work is located at various locations along STH 20 Washington Avenue, from West Boulevard to Marquette Street, as the plans show. STH 20 crosses the Union Pacific Railroad, and sewer pipe replacement at this spot will require jack-boring a steel casing beneath the railroad.

A.2 References

1. The specifications for this category (City of Racine Sanitary Sewer) are the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition, December 22, 2003, with Addendum No. 1, December 22, 2004, and are hereinafter referred to as the “Sanitary Sewer Standard Specifications”.
2. The City of Racine Revised Specifications for Street Restoration, 2007 revision.
3. The State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction 2018 edition.

4. The Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition with Revisions 1 and 2 incorporated.

A.3 Schedule

1. Within 15 days following the Notice to Proceed, the contractor shall provide to the department and to the city a construction schedule, which describes the phases of work under the sanitary sewer category, the anticipated inclusive dates of each stage, and the relationship of the scheduled sanitary sewer work to the schedule of the overall roadway project.
2. If during the course of the project changes occur which extend any construction stage by more than 2 weeks, the contractor shall immediately provide an updated construction schedule to the department and the city, and shall include an explanation of the reason for the change.

A.4 Utilities

A.4.1 Existing Utilities

1. Underground utilities may be encountered. It shall be the contractor's responsibility to notify any utility and/or Digger's Hotline in advance of any excavation, for location of all underground utilities and to determine what safeguards and conditions they exist on when the excavation and backfilling operation is being done
2. The contractor shall protect all existing utilities during construction whether the existing utilities are shown on the plans or not. Utilities damaged by construction activities shall be repaired in a manner satisfactory to the engineer at the contractor's expense. The contractor shall call Diggers, 1 (800) 242-8511, for staking and locating utilities.
3. The contractor shall expose all utility crossings and field-verify location and elevation. The Utility is not responsible for damage caused by contractor made to existing utilities. See utility note on Plans.
4. Damage to any water utility infrastructure will be repaired by the Racine Water Utility. The contractor may perform water service alterations given the approval of the engineer.

A.4.1 Existing Sewer

1. Sewer flow shall be maintained during construction and may require bypass pumping to a downstream manhole. Costs of bypass pumping shall be incidental to the repairs or replacements.
2. Removing or discontinuing (abandoning) pipes in the existing sanitary sewer system shall be incidental to the repairs or replacements.

A.5 Railroad Coordination

A.5.1 Railroad Insurance Requirements:

1. The contractor shall comply with standard spec 107.17.3 of the Wisconsin, Department of Transportation Standard Specifications for Highway and Structure Construction 2018 edition.

A.5.2 Railroad Permit – City of Racine And UPRR:

1. The City of Racine will obtain the necessary permit (railroad permit) from Union Pacific Railroad to work within the railroad right-of-way.
2. The contractor shall comply with all provisions of the railroad permit. All costs for complying with the railroad permit, including but not limited to: costs for flagging and inspection by representatives of Union Pacific Railroad, shall be included in the unit price bid per linear foot of 18" Steel Casing.

B Materials

B.1 General

1. The contractor shall provide to the engineer submittals for all pipe, manholes, and other materials prior to start of construction.
2. Materials shall adhere to Chapters 8.2, 8.3, and 8.10 of the Sanitary Sewer Standard Specifications.

B.2 Sanitary Pipe

1. All sanitary sewer pipe smaller than 18" in diameter shall be polyvinyl chloride and shall conform to ASTM D-3034, SDR-35 and shall have a minimum internal diameter of 8" (6" minimum for sanitary laterals).
2. Sanitary Sewer pipe 18" and greater in diameter shall be polyvinyl chloride and shall conform to ASTM F-679.
3. Any sanitary sewer that is 20' deep or more shall be C900 water main pipe.
4. Storm sewer pipe shall conform to the requirements of ASTM Specifications C-76, "Reinforced Concrete Sewer Pipe, Class V" where noted.
5. Sanitary Sewer Pipe shall be State of Wisconsin; Department of Commerce approved material meeting the requirement of Chapter 8.9.0 of the "Sanitary Sewer Standard Specifications" for Corrugated Polyvinyl Chloride (PVC) Sewer Pipe.

B.3 Frames and Grates

1. Neenah Type 1550 frame and grate, with machined bearing surfaces and Type "C" self-sealing cover with gasket and concealed pick hole.
2. New frames and covers will be furnished by the city and may be picked up at the Department of Public Works Field Office, 800 Marquette Street with a written casting requisition from the engineer.

B.4 Manholes

1. Manholes shall conform to Chapter 3.5.0 of the Sanitary Sewer Standard Specifications.
2. Rubber boots and seals are required for all pipe connections to manholes.
3. Manholes shall come with drops pre-built into the manhole structure.

B.5 Seals

1. Frame/Chimney Seal: Internal/External Adapter Seal and 8" Sleeve as manufactured by Adaptor, Inc.
2. Barrel Joints: 8" banded exterior joint seal.
3. Fernco Fittings: Stainless Steel Shear Rings

B.6 Backfill

1. Cover and Bedding material shall conform to Section 8.2.6 of the Sanitary Sewer Standard Specifications.
2. Granular Backfill material shall conform to Section 8.43.4 of the Sanitary Sewer Standard Specifications.
3. Slurry Backfill material shall conform to Section 8.43.8 of the Sanitary Sewer Standard Specifications.

C Sewer Construction

C.1 General

1. The contractor shall notify the engineer seven days in advance of the start of construction.
2. The contractor shall notify the engineer's representative in the event work will not commence due to inclement weather or other conflicts. If the contractor fails to properly notify the engineer's representative of work stoppages, the contractor shall be responsible for inspection costs to the Utility that day.
3. The engineer, before commencement, must authorize any extra work.
4. Work on this contract shall be completed in a continuous and timely manner from the notice to proceed. Daily work will not commence until all necessary equipment and material are on the job site and readily available.
5. Loud machinery cannot be used before 7:00 am.
6. The contractor shall maintain clean project areas at all times. At the finish of each workday, the contractor shall sweep and clean the project area to the satisfaction of the engineer or engineer's Representative.
7. The contractor shall provide a portable restroom for workers. Cost for portable restroom shall be considered incidental.

C.2 Excavation and Backfill

1. The contractor shall excavate all material to the depths necessary to construct the sewer as shown on the plans. Excavation shall include the removal of existing asphalt pavement and rubblized concrete, soil, rock, abandoned pipelines, old foundations, stumps, roots, and similar materials encountered. Excavation of whatever material is encountered shall be included in the contract unit prices for sewer installation, and will not be paid for separately. The excavated area shall be kept free of water at all times.
2. Backfilling shall follow immediately behind trench excavation and pipe laying operations. In no case shall more than 100 feet of trench excavation be open at any one point and time. Any excavation left open and unattended shall be protected with lighted Type II barricades and Safety Fence ("Snow Fence") constructed around the perimeter of the excavation, all costs of which shall be incidental to the sewer installation. Contractor shall ensure that all such safety measures comply with current OSHA and MUTCD requirements.
3. In areas where the proposed construction may interfere with existing utilities, additional excavation may be required to determine the exact location of said existing utilities. Vacuum methods may be required for this excavation. This work

shall be incidental and no additional compensation will be due to the contractor for this work unless ruled otherwise by the engineer.

4. The contractor shall be responsible for immediate removal and proper disposal of all materials resulting from excavation, demolition, abandonment, and removal, unless otherwise indicated. The cost of removing previously abandoned utility facilities shall be included in the unit prices bid.
5. No excavated material shall be placed in the street right-of-way.
6. The engineer shall obtain sewer construction Street Opening Permits for the contractor, within the City of Racine.
7. All excavations shall be back filled with granular backfill, unless specified differently on the plans sheet, conforming to the requirements of Section 2.6.2 of the Sanitary Sewer Standard Specifications in uniform layers of not more than twelve (12) inches and mechanically compacted in place with a boom mounted hydraulic compactor.
8. Bedding and cover material for trenches shall be 3/4" crushed stone chips conforming to Section 8.33.3 (Size No. 1), of the Sanitary Sewer Standard Specifications. Granular backfill material shall be compacted to a minimum of 95% Maximum Modified Proctor Dry Density.
9. Where noted on the plans, the contractor shall hire, at their own expense, an independent testing firm to perform compaction testing. The engineer's Representative shall be on site as testing is performed. All testing reports shall be forwarded to the engineer for review.

C.3 Sewer Main

1. Sewer construction shall conform to Chapter 3.2 of the Sanitary Sewer Standard Specifications.
2. The engineer shall provide line and grade for the contractor.
3. As a final inspection, all new sanitary sewers shall be televised after construction. See Section 7.1.2 of the Sanitary Sewer Standard Specifications for details.

C.4 Jack/Bore Steel Casing Pipe 18", Grade B

1. Description: The contractor shall furnish all the labor, equipment, and materials necessary to install the 18" Steel Casing Pipe.
2. Materials: The contractor shall furnish and install 18" diameter steel pipe, Grade B with a 0.312 inch wall thickness. The steel pipe shall be coated to provide cathodic protection.
3. Construction Methods: Excavate suitable pit for jacking operation, securely sheet and brace the pit as necessary to prevent caving. Boring pits shall not be dug within 42 feet of the centerline of the railroad tracks. To force the pipe through the roadbed, use a jack with a head constructed to apply uniform pressure around the ring of the pipe. Set the pipe to be jacked on guides, braced together to properly support the pipe section and to direct it to proper line and grade. Upon completion of jacking operations all voids around the outside face of the pipe shall be filled with backfill concrete or cellular concrete.

C.5 Sewer Laterals

1. Sewer Lateral construction shall conform to Section 3.2.5 of the Sanitary Sewer Standard Specifications.
2. Laterals shall be 6" in diameter unless specified otherwise.
3. Maintain a pitch of 1/8 inch per foot minimum.
4. Sanitary laterals shall be reconnected to the new sewer main at the time of construction using a wye of the same size as the existing.
5. Provide watertight seal between new PVC and old clay pipes using Fernco stainless steel shear rings fittings or equal.
6. Each lateral connection must be completed the same day it is started, this includes backfilling and compacting.
7. If the lateral is determined to be reconstructed all lateral related work including pavement, curb, sidewalk, and grass restoration shall be included in the linear footage price of the lateral bid item.
8. If the lateral is determined to be in healthy condition the contractor shall include all necessary material and labor in reconnecting it to the new main in the mainline bid items.
9. Laterals tied into existing manholes shall be redirected into the sanitary mainline sewer pipe. Costs for furnishing, installing sewer building lateral, including in-line wye, shall be included the unit price bid per each redirect sanitary sewer lateral.

C.6 Manholes

1. Manhole construction shall conform to Section 3.5.0 of the Sanitary Sewer Standard Specifications.
2. New manholes shall be pre-cast concrete with 48" inside diameter. Any manhole larger than 48" shall be approved by the engineer.
3. Pre-formed manhole invert bases will not be accepted.
4. All manhole barrel joints shall have a banded exterior joint seal that is at least 8" wide.
5. Maximum height from top of cone section to manhole frame shall be 12".
6. Cracked or fractured concrete adjusting rings will not be accepted.
7. All manhole frames/chimneys shall receive an internal/external adapter seal and 8" sleeve manufactured by Adaptor, Inc.
8. The inside face of all adjusting rings shall be back-plastered with quick set mortar 1/2" thick with brushed finish.
9. Wedges shall not be used to bring casting and seal to final grade.
10. Abandoned sewer pipe shall be removed to at least 2 feet outside the manhole and bulk-headed.
11. The contractor shall be responsible for up to 7 feet of main while making connections to new manholes.
12. The contractor shall reconstruct the existing manholes shown on the plans by removing the existing brick cone section and replacing it with pre-cast cone section. The contractor shall backfill around the rebuilt manholes with slurry. Costs for rebuilding manholes shall be included in the unit price bid per each Rebuild Manhole. The contractor shall field verify cone dimensions prior to ordering precast section.

13. Abandoning Sanitary Manholes: The Contractor shall abandon by capping all sewer pipes entering or leaving the manhole to be abandoned, then placing concrete to the soffit level of the highest pipe, and then placing slurry backfill conforming to section B.6 of the City of Racine Sewer article.

D Testing

D.1 General

1. The contractor shall furnish all labor, equipment and material to complete all required tests.
2. Costs for testing/televising sewers shall be included in bid price for linear foot of pipe.

D.2 Deflection Testing

1. All new construction shall be subjected to deflection testing if engineer sees fit. Testing should be performed as soon as possible after constructing a manhole to manhole run.
2. Deflection testing shall conform to section 3.2.6(i) (4) of the Sanitary Sewer Standard Specifications.
3. Deflection testing shall be done after backfilling and compacting but before paving.
4. Deflection testing shall be done under the supervision of the engineer or the engineers' representative.

D.3 Televising

1. All new construction shall be televised before being accepted.
2. Televising of sewers shall conform to section 7.1.2 of the Sanitary Sewer Standard Specifications.
3. Provide video footage to engineer for analysis.
4. If defects are found, contractor shall repair and re-televiser at no additional cost to the Utility.
5. Cost for televising shall be included in the unit price bid per linear foot of sewer pipe.

D.4 Compaction Testing

1. Where noted on the plans or when deemed necessary by the engineer, the contractor shall, at its own cost, hire an independent firm to perform modified proctor backfill compaction testing on granular backfill material.
2. Testing shall be done in 100 foot increments along the construction trench when noted on plans, or at spot locations when deemed necessary by the engineer.
3. Backfill must meet a minimum compaction of 95% Maximum Modified Proctor Dry Density. All test results must be submitted to and approved by the engineer prior to placing of permanent pavement.
4. Tests shall be performed when the trench is 1/3 filled, 2/3 filled, and when completely filled.

E Dewatering

All existing storm water inlets shall be protected by FF geotextile fabric. They shall be individually inspected and maintained by the contractor after each rain event greater than 0.1". All dewatering activities shall be reviewed and approved by the engineer prior to any pumping. If pumping is required to remove water from the site, the contractor shall provide the equipment necessary to mechanically pump the water into existing inlet(s) closest to the area. These inlets shall have type D inlet protection installed prior to any dewatering

F Emergency Conditions and Telephone Numbers

F.1 When an emergency occurs, such as street cave-in or a ruptured water line; the agency performing the work in the streets is required to notify the affected agencies. During normal working hours, the following should be notified:

Department of Public Works	730 Washington Avenue	(262) 636-9121
Building Department	730 Washington Avenue	(262) 636-9464
Police Department	730 Center Street	(262) 635-7700
Fire Department	800 Eighth Street	(262) 635-7900

F.2 Outside of normal working hours when the above offices cannot be reached, the following are to be notified:

Police Department	730 Center Street	(262) 635-7700
Fire Department	800 Eighth Street	(262) 635-7900

F.3 Various city departments and public utilities can be reached at the following telephone numbers:

Building Department	730 Washington Avenue	(262) 636-9464
City Electricians		(262) 636-9129
Engineering Department	730 Washington Avenue	(262) 636-9191
Plumbing Department	730 Washington Avenue	(262) 636-9164
Parks Department, Administration	800 Center Street	(262) 636-9131
Public Works Street Maintenance	841 Marquette Street	(262) 636-9126
Transportation Field Office	830 Racine Street	(262) 636-9168
Water/Wastewater Utility Administration	800 Center Street	(262) 636-9181
Water Utility Service Building (24 Hours)	100 Hubbard Street	(262) 636-9185

21. Temporary Pedestrian Surface Plywood, Item 644.1420.S.

A Description

This special provision describes providing, maintaining, and removing temporary pedestrian surface.

B Materials

Furnish 1 1/4-inch dense graded aggregate conforming to standard spec 305.2. Furnish:

- Pressure treated 2x4 framing lumber, pressure treated 3/4-inch plywood with skid resistant surface coating, and weather resistant deck screws 3-1/2-inch minimum for framing and 1-5/8-inch minimum for plywood.

C Construction

Place, compact, and level a dense graded aggregate foundation before placing the surface.

Provide a firm, stable, and slip-resistant surface layer with vertical joints no higher than 1/4 inch and horizontal joints no wider than 1/2 inch. Sheet materials up to 1 inch thick may be lapped if the edge is beveled at 45 degrees or flatter. Asphalt may also be used to ramp up to materials up to 1 inch thick. Construct conforming to the following:

- Framed plywood panels 4 feet wide with a skid resistant surface coating.

Align parallel to the existing roadway grade or, if outside of a street or highway right-of-way, do not exceed 5 percent longitudinal slope. Provide cross slope of 1 to 2 percent unless the engineer approves a steeper cross slope in writing.

Maintain the surface with a 4-foot minimum clear width and the specified joint and slope requirements. Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 203.3.4 when no longer required.

D Measurement

The department will measure temporary pedestrian surface by the square foot, 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
644.1420.S	Temporary Pedestrian Surface Plywood	SF

Payment is full compensation for providing, maintaining, and removing temporary pedestrian surface.

stp-644-010 (20150630)

22. Temporary Curb Ramp, Item 644.1601.S.

A Description

This special provision describes providing, maintaining, and removing temporary curb ramps.

B Materials

Furnish materials as follows:

- Asphaltic surface conforming to standard spec 465.2.
- Engineer-approved ready mixed concrete or ancillary concrete conforming to standard spec 602.2 except no QMP is required.
- Commercially available prefabricated curb ramps conforming to Americans with Disabilities Act Accessibility Guidelines.

Furnish yellow detectable warning fields conforming to Americans with Disabilities Act Accessibility Guidelines. Use either an engineer-approved surface-applied type or cast iron from the department's approved products list.

C Construction

Provide and maintain temporary curb ramps, including detectable warning fields, throughout the project duration. Place and compact a dense graded aggregate foundation before placing the curb ramp, unless the curb ramp is to be placed on existing roadway surface.

Remove and dispose temporary curb ramps and associated detectable warning fields when no longer required.

D Measurement

The department will measure temporary curb ramps by each individual ramp, 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
644.1601.S	Temporary Curb Ramp	EACH

Payment is full compensation for providing, maintaining, and removing temporary curb ramps.

stp-644-020 (20150630)

23. Backfill Slurry, Item SPV.0035.01.

A Description

This special provision describes furnishing and placing Backfill Slurry. Conform to standard spec 209 except as hereinafter modified.

B Materials

Replace standard spec 209.2.2 with the following:

- (1) Use aggregates that conform to the gradation conforming to standard spec 501.2.5.3 for fine aggregate and for Size No. 1 in standard spec 501.2.5.4. Provide aggregates in the same proportion by weight as for Grade "A" concrete as in standard spec 501.3.2.2.

Weigh aggregates at a batch plant suitable for batching concrete masonry. Mix and deliver to the project site using a truck mixer. Add enough water meeting the requirements of standard spec 501.2.4 to enable the mixture to flow readily.

C Construction

Replace standard spec 209.3 with the following:

Discharge from the truck in a manner to prevent segregation. Completely fill excavation in a single operation. Consolidation or compaction effort will not be required. Twelve hours shall elapse before paving over the backfill.

D Measurement

Replace standard spec 209.4 with the following:

The department will measure Backfill Slurry in volume by the cubic yard of material placed and accepted. Such volume shall be computed from actual measurements of the dimensions of the area to be backfilled. In irregular or inaccessible areas, the engineer may allow volume to be determined by other appropriate 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.0035.01	Backfill Slurry	CY

Payment is full compensation conforming to standard spec 209.5. (2) and 209.5. (5).
SER-209.1 (20161208)

24. Field Facilities Office Space, Item SPV.0060.01.

A Description

This special provision describes furnishing, equipping, and maintaining a field office as required in the contract at engineer-approved locations conforming to standard spec 642 and as hereinafter provided.

B Materials

Provide Field Facilities Office Space conforming to standard spec 642.2.1 except revise by deleting paragraphs (1), (7), and (9).

Replace standard spec 642.2.1(4) with the following:

Provide and maintain suitable interior sanitary facilities conforming to state and local health requirements, in clean and good working condition, and stock with sanitary supplies for the duration of the contract. Furnish office space in an existing office building or existing building converted to office space with a minimum of 500 square feet. The facility shall have no fee parking with a minimum parking for 5 cars. The exterior door(s) shall have locks

in good working order and keys provided for all field staff. The office space shall be located within 2 miles of the construction project.

Equip the office as specified in standard spec 642.2.2.1 except delete paragraph (1) and (4) and add the following:

1. 3 suitable office desks with drawers and locks.
2. 3 ergonomically correct office chairs in working condition with at a minimum: 5-legged base with casters, seat adjustable from 15 to 22 inches from the floor with a seamless waterfall, rounded, front edge, and high backrest with no arms or adjustable arms.
3. 2 six foot folding tables.
4. 2 four-shelf bookcases.
5. 10 folding chairs.

Provide clearly marked recycling and waste receptacles within the field office, and separate recycling and waste dumpsters near the field office. Cover outdoor containers to keep out rain, snow, and wind-driven debris. Provide regularly scheduled recycling and waste pick-up.

C Construction

Conform to standard spec 642.3 except delete paragraph (2).

D Measurement

The department will measure the Field Facilities Office Space as each office, 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	Field Facilities Office Space	EACH

Payment is full compensation for providing, equipping, securing, and maintaining the facility; for parking, for telecommunications equipment, installation, and service fees; and for providing bottled water, utilities, fuel, ventilation, and toilet facilities as required, either independently or jointly with the field laboratory, for the time specified in standard spec 642.3.

The department will pay for the cost of telecommunications usage fees incurred by department staff.

SER-642.2 (20160808)

25. Curb Ramp Grading, Shaping and Finishing, Item SPV.0060.02.

A Description

This special provision describes excavating, grading, filling, shaping, compacting, and finishing as necessary to construct each curb ramp location in accordance with standard spec 205, 211, 305, 625, 629, and 631, and as hereinafter provided.

B Materials

Furnish materials as the plans show and engineer directs conforming to the following sections of the standard spec for the following:

Common excavation.....	205.2
Base Aggregate Dense.....	305.2
Topsoil or Salvaged Topsoil.....	625.2
Fertilizer.....	629.2
Sod Lawn.....	631.2

C Construction

Construct the final subgrade and base for the curb ramp at the locations shown on the plans and as the engineer directs. Restore disturbed areas with topsoil or salvaged topsoil, fertilizer, and sod lawn.

Dispose of all surplus and unsuitable material in accordance to standard spec 205.3.12.

Furnish and apply water to sodded areas according to standard spec 631.3.5.

D Measurement

The department will measure Curb Ramp Grading, Shaping, and Finishing as each individual plan location, 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. 02	Curb Ramp Grading, Shaping, and Finishing	EACH

Payment is full compensation for all excavating, grading, placing base aggregate, shaping, and compacting, and for providing and placing topsoil or salvaged topsoil, fertilizer, and sod at each curb ramp location.

Sidewalk removal, construction staking, curb ramp detectable warning field, and concrete sidewalk will be paid under respective bid items.

SER-602.1 (20170629)

26. Abandon Sanitary Manhole, Item SPV.0060.03.

A Description

This work consists of discontinuing (abandoning) the existing sanitary sewer manhole at Station 179+00 east of the Union Pacific Railroad as the plans show.

B Material

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Abandon Sanitary Manhole as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Abandon Sanitary Manhole	EACH

Payment is full compensation for furnishing all labor, equipment, and materials to complete Abandon Sanitary Manhole, including all costs of complying with the Railroad Permit obtained by the City of Racine from the Union Pacific Railroad for this project.

27. Sanitary Manhole, 4-FT Diameter, Item SPV.0060.04.

A Description

This work consists of furnishing new manholes at Station 178+21.50 and Station 179+21.50 near the Union Pacific Railroad as the plans show.

B Material

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Sanitary Manhole, 4-FT Diameter as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Sanitary Manhole, 4-FT Diameter	EACH

Payment is full compensation for furnishing all labor, equipment, and materials to complete Abandon Sanitary Manhole, including all costs of complying with the Railroad Permit obtained by the City of Racine from the Union Pacific Railroad for this project.

28. Rebuild Sanitary Manhole, Item SPV.0060.05.**A Description**

This work consists of adjusting/repairing the existing sanitary sewer manhole at Station 153+90 west of the Valley/Phillips intersection.

B Material

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Rebuild Sanitary Manhole as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Rebuild Sanitary Manhole	EACH

Payment is full compensation for furnishing all labor, equipment, and materials to complete Rebuild Sanitary Manhole.

29. Factory Tap, 15" x 15" X 6", Item SPV.0060.06.**A Description**

This work consists of replacing the existing Factory Tap (WYE) connecting the existing active lateral to the relay sanitary main near Station 178+00, west of the Union Pacific Railroad crossing as the plans show.

B Material

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Factory Tap, 15" x 15" X 6" as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Factory Tap, 15" x 15" X 6"	EACH

Payment is full compensation for furnishing all labor, equipment, and materials to complete Factory Tap, 15" x 15" X 6", including all costs of complying with the Railroad Permit obtained by the City of Racine from the Union Pacific Railroad for this project.

30. Factory Tap, 12" x 12" X 6", Item SPV.0060.07.**A Description**

This work consists of replacing the existing Factory Taps (WYE's) at Station 198+00 and at Station 199+05, between Marquette and Ninth Streets, as the plans show.

B Material

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Factory Tap, 12" x 12" X 6" as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Factory Tap, 12" x 12" X 6"	EACH

Payment is full compensation for furnishing all labor, equipment, and materials to complete Factory Tap, 12" x 12" X 6".

31. Raise Sanitary Manhole Casting, Item SPV.0060.08.

A Description

This work consists of raising (adjusting) the existing sanitary sewer manhole casting (cover) at Station 153+90 west of the Valley/Phillips intersection.

B Material

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Raise Sanitary Manhole Casting as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Raise Sanitary Manhole Casting	EACH

Payment is full compensation for furnishing all labor, equipment, and materials to complete Raise Sanitary Manhole Casting.

32. Sanitary Sewer, PVC Pipe SDR-35, 12-Inch, Item SPV.0090.01.

A Description

This work consists of relaying and building 12-inch sanitary sewer main as part of the repairs near the Union Pacific Railroad.

B Materials

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Sanitary Sewer, PVC Pipe SDR-35, 12-Inch by the linear foot installed, 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.0090.01	Sanitary Sewer, PVC Pipe SDR-35, 12-Inch	LF

Payment is full compensation for furnishing all labor, equipment, and materials to install the Sanitary Sewer, PVC Pipe SDR-35, 12-Inch, including all costs of complying with the Railroad Permit obtained by the City of Racine from the Union Pacific Railroad for this project.

33. Steel Casing Pipe, 18-inch, Item SPV.0090.02.**A Description**

Furnish all the labor, equipment, and materials necessary to install the 18" Steel Casing Pipe beneath the Union Pacific Railroad crossing as the plans show and according to the City of Racine Sanitary Sewer article of these Special Provisions.

B Materials

Conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

C Construction

Conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Steel Casing Pipe, 18 Inch by the linear foot installed, 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.0090.02	Steel Casing Pipe, 18 Inch	LF

Payment is full compensation for furnishing all labor, equipment, and materials to install the Steel Casing Pipe, 18 Inch, including all costs of complying with the Railroad Permit obtained by the City of Racine from the Union Pacific Railroad for this project.

34. Concrete Curb & Gutter 12-inch Type D, Item SPV.0090.03.**A Description**

This special provision describes furnishing and placing Concrete Curb and Gutter 12-inch conforming to standard spec 601, as shown on the plans, and as hereinafter provided.

B Materials

Furnish concrete curb and gutter materials in accordance with standard spec 601.2.

C Construction

Construct concrete curb and gutter in accordance to the requirements of standard spec 601.3.

D Measurement

The department will measure Concrete Curb and Gutter 12-inch by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Concrete Curb & Gutter 12-inch Type D	LF

Payment is full compensation conforming to standard spec 601.5(3).

35. Repair 15-Foot PVC Pipe SDR-35, 10-Inch, Item SPV.0105.01.**A Description**

This work consists of spot repairs to the existing sanitary sewer main as shown on the plans near Station 127+00 east of Grange Avenue

B Materials

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions.

C Construction

Shall conform to all of the requirements of the City of Racine Sanitary Sewer article of these special provisions and as the plans show.

D Measurement

The department will measure Repair 15 Feet PVC Pipe SDR-35, 10-Inch, as a 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.0105.01	Repair 15 Feet PVC Pipe SDR-35, 10-Inch	LS

Payment is full compensation for furnishing all labor, equipment, and materials to complete Repair 15 Feet PVC Pipe SDR-35, 10-Inch.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

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

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

Payment to Lower-Tier Subcontractors

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

Release of Routine Retainage

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

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

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

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

ADDITIONAL SPECIAL PROVISION 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

104.10.1 General

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Subsection 104.10 specifies a 2-step process for contractors to follow in submitting a cost reduction incentive (CRI) for modifying the contract in order to reduce direct construction costs computed at contract bid prices. The initial submittal is referred to as a CRI concept and the second submittal is a CRI proposal. The contractor and the department will equally share all savings generated to the contract due to a CRI as specified in 104.10.4.2(1). The department encourages the contractor to submit CRI concepts.

104.10.4.2 Payment for the CRI Work

Replace paragraph one with the following effective with the December 2017 letting:

- (1) The department will pay for completed CRI work as specified for progress payments under 109.6. The department will pay for CRI's under the Cost Reduction Incentive administrative item. When all CRI costs are determined, the department will execute a contract change order that does the following:
1. Adjusts the contract time, interim completion dates, or both.
 2. Pays the contractor for the unpaid balance of the CRI work.
 3. Pays the contractor 50 percent of the net savings resulting from the CRI, calculated as follows:

$$NS = CW - CRW - CC - DC$$

Where:

NS = Net Savings

CW = The cost of the work required by the original contract that is revised by the CRI. CW is computed at contract bid prices if applicable.^[1]

CRW = The cost of the revised work, computed at contract bid prices if applicable.^[1]

CC = The contractor's cost of developing the CRI proposal.

DC = The department's cost for investigating, evaluating, and implementing the CRI proposal.

^[1] The department may adjust contract bid prices that, in the engineer's judgement, do not represent the fair value of the work deleted or proposed.

108.11 Liquidated Damages

Replace paragraphs two and three with the following effective with the December 2017 letting:

- (2) This deducted sum is not a penalty but is a fixed, agreed, liquidated damage due the department from the contractor for the added cost of engineering and supervision resulting from the contractor's failure to complete the work within the contract time.
- (3) Unless enhanced in the special provisions, the department will assess the following daily liquidated damages

LIQUIDATED DAMAGES			
ORIGINAL CONTRACT AMOUNT		DAILY CHARGE	
FROM MORE THAN	TO AND INCLUDING	CALENDAR DAY	WORKING DAY
\$0	\$250,000	\$850	\$1700
\$250,000	\$500,000	\$815	\$1630
\$500,000	\$1,000,000	\$1250	\$2500
\$1,000,000	\$2,000,000	\$1540	\$3080
\$2,000,000	—	\$2070	\$4140

203.3.2.2 Removal Operations

Replace the entire text with the following effective with the December 2017 letting:

203.3.2.2.1 General

- (1) Except as specified below for closing culverts, remove the entire top slab of box culverts and the entire superstructure of other culverts and bridges designated for removal. Completely remove existing piles, cribs, or other timber construction within the limits of new embankments, or remove these structures to an elevation at least 2 feet below finished ground line. Remove sidewalls or substructure units in water to an elevation no higher than the elevation of the natural stream or lake bed, or, if grading the channel is required under the contract or the plans, to the proposed finished grade of the stream or lake bed. Remove sidewalls or substructure units not in water down to at least 2 feet below natural or finished ground line.
- (2) If extending or incorporating existing culverts and bridges in the new work, remove only those parts of the existing structure as necessary to provide a proper connection to the new work. Saw, chip, or trim the connecting edges to the required lines and grades without weakening or damaging the remaining part of the structure. During concrete removal, do not damage reinforcing bars left in place as dowels or ties incorporated into the new work.
- (3) Remove pipe culverts designated for salvage in a way that prevents damage to the culverts.
- (4) Dismantle steel structures or parts of steel structures designated for salvage in a way that avoids damage to the members. If the contract specifies removing the structure in a way that leaves it in a condition suitable for re-erection, matchmark members with durable white paint before dismantling. Mark pins, bolts, nuts, loose plates, etc., similarly to indicate their proper location. Paint pins, bolts, pinholes, and machined surfaces with a department-approved rust preventative. Securely wire loose parts to adjacent members, or label and pack them in boxes.
- (5) Remove timber structures or parts of timber structures designated for salvage in a way that prevents damage to the members.
- (6) If the engineer approves, the contractor may temporarily use materials designated for salvage in falsework used to construct new work. Do not damage or reduce the value of those materials through temporary use.

203.3.2.2.2 Deck Removal

- (1) Protect the work as specified in 107.14 during deck removal. Minimize debris falling onto water surfaces and wetlands as the contract specifies in 107.18 or in the special provisions. Also, minimize debris falling on the ground and roadway.
- (2) Do not damage existing bar steel reinforcement, girders, or other components that will be incorporated in new work. Remove decks on prestressed concrete girders using a hydraulic shear or other engineer-approved equipment. Thoroughly clean, realign, and retie reinforcement as necessary.
- (3) After deck removal is complete, notify the engineer to request a damage survey. Point out damage to the engineer. Allow one business day for the engineer to complete the damage survey. If damage is identified, the department will determine if repairs or girder restoration will be allowed.
- (4) If the department allows girder restoration, have a professional engineer registered in the State of Wisconsin analyze the effect of the damage to the bridge, make recommendations, and prepare signed and sealed computations and structural details required to restore girders to their previous structural capacity. Submit the restoration proposal, including analysis and structural details, to the department and design engineer of record. The department will accept or reject the restoration proposal within 3 business days. Do not begin restoration work until the department allows in writing.
- (5) The engineer will not extend contract time to assess or remediate contractor caused damage.

203.5.1 General

Replace paragraph two with the following effective with the December 2017 letting:

- (2) Payment is full compensation for breaking down and removing; costs associated with contractor-caused damage; required salvaging, storing, and disposing of materials; and, unless the contract specifies granular backfill, for backfilling.

415.2.3 Expansion Joint Filler

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Furnish expansion joint filler conforming to AASHTO M153, AASHTO M213, or ASTM D8139 in lengths equal to the pavement lane width and of the thickness and height the plans show. Where dowel bars are required, use filler with factory-punched holes at the dowel bar locations and with a diameter not greater than 1/8 inch larger than the nominal dowel bar diameter.
-

415.3.20 Filling Joints

Replace paragraph two with the following effective with the December 2017 letting:

- (2) Clean joints of laitance, curing compound, and other contaminants before filling. Saw construction joints at least 3/4 inches deep before filling. Sawing is not required for tooled joints in curb and gutter. Sandblast or waterblast exposed joint faces using multiple passes as required to clean joint surfaces of material that might prevent bonding. Blow clean and dry with oil-free compressed air immediately before filling.
-

415.5.1 General

Replace paragraph six with the following effective with the December 2017 letting:

- (6) Payment for Concrete Pavement Joint Filling is full compensation for filling concrete pavement joints; filling adjacent curb and gutter joints; and for sawing.
-

440.3.4.2 Contractor Testing

Replace paragraph two with the following effective with the December 2017 letting:

- (2) Coordinate with the engineer at least 24 hours before making profile runs for acceptance unless the engineer approves otherwise. The department may require testing to accommodate staged construction or if corrective action is required.
-

455.5.3 Tack Coat

Replace paragraph two with the following effective with the December 2017 letting:

- (2) The department will adjust pay for Tack Coat, under the Nonconforming Tack Coat administrative item, for nonconforming material the engineer allows to remain in place at a maximum of 75 percent of the contract unit price.
-

460.2.7 HMA Mixture Design

Replace paragraph one with the following effective with the December 2017 letting:

- (1) For each HMA mixture type used under the contract, develop and submit an asphaltic mixture design according to CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to the designer according to CMM 8-66.

TABLE 460-2 MIXTURE REQUIREMENTS

Mixture type	LT	MT	HT	SMA
ESALs x 10 ⁶ (20 yr design life)	<2.0	2 - <8	>8	—
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	40
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821) (one face/2 face, % by count)	65/—	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40	43	45	45
Sand Equivalency (AASHTO T176, min)	40	40	45	50
Gyratory Compaction				
Gyrations for N _{ini}	6	7	8	8
Gyrations for N _{des}	40	75	100	65
Gyrations for N _{max}	60	115	160	160
Air Voids, %V _a (%G _{mm} N _{des})	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)
% G _{mm} N _{ini}	<= 91.5 ^[1]	<= 89.0 ^[1]	<= 89.0	—
% G _{mm} N _{max}	<= 98.0	<= 98.0	<= 98.0	—
Dust to Binder Ratio ^[2] (% passing 0.075/P _{be})	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80 ^[4] [5]	65 - 75 ^[3] [5]	65 - 75 ^[3] [5]	70 - 80
Tensile Strength Ratio (TSR) (AASHTO T283) ^[6] [7]				
no antistripping additive	0.75 min	0.75 min	0.75 min	0.75 min
with antistripping additive	0.80 min	0.80 min	0.80 min	0.80 min
Draindown (AASHTO T305) (%)	—	—	—	0.30

^[1] The percent maximum density at initial compaction is only a guideline.

^[2] For a gradation that passes below the boundaries of the caution zone (ref. AASHTO M323), the dust to binder ratio limits are 0.6 - 1.6.

^[3] For No. 5 (9.5mm) and No. 4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76 percent.

^[4] For No. 2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[5] For No. 1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[6] WisDOT eliminates freeze-thaw conditioning cycles from the TSR test procedure.

^[7] Run TSR at asphalt content corresponding to 3.0% air void regressed design using distilled water for testing.

460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater

Replace paragraph six with the following:

- (6) Conduct TSR tests during mixture production according to CMM 8-36.6.14. Test each full 50,000 ton production increment, or fraction of an increment, after the first 5000 tons of production. Perform required increment testing in the first week of production of that increment. If production TSR values are below the limit specified in CMM 8-36.6.14, notify the engineer. The engineer and contractor will jointly determine a corrective action.

502.2.7 Preformed Joint Filler

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use preformed joint filler conforming to AASHTO M153, AASHTO M213, or ASTM D8139.
-

502.3.7.8 Floors

Replace paragraph fourteen with the following effective with the December 2017 letting:

- (14) Unless specified otherwise, transversely tine finish the floors of structures with approach pavements designed for speeds of 40 mph or greater as specified in 415.3.8.3, except make the tining 1/8 inch in depth and do not perform tining within 12 inches of gutters. The contractor may apply a broom finish, described below, instead of the artificial turf drag finish required before tining. The contractor may perform tining manually, if it obtains a finish satisfactory to the engineer. Perform tining within 20 degrees of the centerline of bearing of the substructure units on bridge decks having skew angles of 20 degrees or greater.
-

614.2.1 General

Add the following as paragraph ten effective with the December 2017 letting:

- (10) Furnish guardrail reflectors from the department's APL.
-

614.3.2.1 Installing Posts

Add the following as paragraph five effective with the December 2017 letting:

- (5) Provide post-mounted reflectors every 100 feet with one at the beginning and end of each run and a minimum of three reflectors per run.
-

614.5 Payment

Replace paragraph four with the following effective with the December 2017 letting:

- (4) Payment for the Steel Thrie Beam, Steel Plate Beam Guard, Guardrail Stiffened, MGS Guardrail, Short Radius, and various transition bid items is full compensation for providing guardrail and transitions including post-mounted reflectors; for repairing damaged zinc coatings; and for excavating, backfilling, and disposing of surplus material.
-

641.2.9 Overhead Sign Supports

Replace paragraph three with the following effective with the December 2017 letting:

- (3) Provide steel pole shafts, mast arms or trusses, and luminaire arms zinc coated according to ASTM A123. The contractor may provide either straight or tapered pole and arm shafts unless the plans specify otherwise. Provide bolts and other hardware conforming to 641.2.2.
-

642.2.2.1 General

Replace the entire text with the following effective with the December 2017 letting:

- (1) Provide each field office with two rooms, separated by an interior door with a padlock. Ensure that each room has a separate exterior door and its own air conditioner. Locate the office where a quality internet connection can be achieved.
- (2) Provide long distance telephone service via a land line for exclusive department use that has the following:
- Two programmable touch-tone phones, one of which is cordless. Ensure that phone operations will not interfere with other telecommunications equipment.
 - Voice mail service or an answering machine.
- (3) Provide high-speed internet service for exclusive department use via cable or DSL connection with a modem/router and capable of supporting cloud enabled file sharing, voice over internet protocol (VoIP), video conferencing, and web based applications. Ensure that system meets the following:
- Includes a wireless network for the field office.

- Can accommodate IPsec based VPN products.
- Has a bandwidth range as follows:

Field office with 1-5 staff: A minimum connection speed of 5 Mbps download and 1 Mbps upload. If a cable or DSL option is not available the contractor may provide a personal hotspot using cell phone tethering or other device able to achieve the specified minimum speeds inside the field office.

Field office with 6 or more staff: A minimum connection speed of 10 Mbps + 1/2 Mbps per user download and 5 Mbps upload.

Projects over 500 million dollars: A minimum connection speed of 20 Mbps + 1/2 Mbps per user download and 10 Mbps upload. Coordinate network setup at the leased office with the WisDOT network team.

- (4) Provide and maintain a Windows 7 and Windows 10 compliant multi-function device with copy, print, and scan capabilities that can accommodate both 8 1/2" x 11" and 11" x 17" paper. Replenish paper, toner cartridges, and other supplies before fully expended. Ensure that department staff can connect to the device either directly or through the field office wireless network.
- (5) Equip with a drafting table with a drafter's stool. Except as specified in 642.2.2.4, provide 2 ergonomically correct office chairs in working condition with, at a minimum, the following:
 1. Five-legged base with casters.
 2. Seat adjustable from 15 to 22 inches from the floor with a seamless waterfall, rounded, front edge.
 3. High backrest with no arms or adjustable arms.

643.3.1 General

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Provide and maintain traffic control devices located where the plans show or engineer directs to maintain a safe work zone throughout the contract duration. Relocate as required to accommodate changing work operations. When not in use, place devices away from traffic outside of paved and gravel shoulder surfaces. Where there is barrier on the shoulder, the contractor may place devices not in use on the shoulder as close as possible to the barrier and delineated with drums. Lay signs and supports flat on the grade with uprights oriented parallel to and downstream from traffic. Do not stack devices or equipment. Promptly remove temporary devices from within the project limits as follows:
 - That will not be used within 14 consecutive calendar days.
 - Within 5 business days of substantial completion unless the engineer allows otherwise.

645.2.2.2 Geotextile, Type SAS (Subgrade Aggregate Separation)

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Furnish fabric conforming to the following physical properties:

TEST	METHOD	VALUE ^[1]
Minimum grab tensile strength	ASTM D4632	170 lb
Minimum puncture strength	ASTM D6241	350 lb
Maximum apparent opening size	ASTM D4751	No. 70
Minimum permittivity	ASTM D4491	0.35 s ⁻¹

^[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

645.2.2.4 Geotextile, Type DF (Drainage Filtration)

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Furnish fabric conforming with the physical requirements of either schedule A, schedule B, or schedule C as the contract specifies.

SCHEDULE A TEST	METHOD	VALUE ^[1]
Minimum grab tensile strength	ASTM D4632	110 lb
Minimum puncture strength	ASTM D6241	200 lb
Minimum apparent breaking elongation	ASTM D4632	30%

Maximum apparent opening size	ASTM D4751	300 μm
Minimum permittivity	ASTM D4491	0.70 s^{-1}
SCHEDULE B TEST	METHOD	VALUE ^[1]
Minimum grab tensile strength	ASTM D4632	180 lb
Minimum puncture strength	ASTM D6241	350 lb
Minimum apparent breaking elongation	ASTM D4632	30%
Maximum apparent opening size	ASTM D4751	300 μm
Minimum permittivity	ASTM D4491	1.35 s^{-1}
SCHEDULE C TEST	METHOD	VALUE ^[1]
Minimum grab tensile strength	ASTM D4632	180 lb
Minimum puncture strength	ASTM D6241	350 lb
Minimum apparent breaking elongation	ASTM D4632	15%
Maximum apparent opening size	ASTM D4751	600 μm
Minimum permittivity	ASTM D4491	1.00 s^{-1}

^[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

645.2.2.6 Geotextile, Type R (Riprap)

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use fabric conforming to the following physical properties:

TEST	METHOD	VALUE ^[1]
Minimum grab tensile strength	ASTM D4632	205 lb
Minimum puncture strength	ASTM D6241	400 lb
Minimum apparent breaking elongation	ASTM D4632	15%
Maximum apparent opening size	ASTM D4751	No. 30
Minimum permittivity	ASTM D4491	0.12 s^{-1}

^[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

645.2.2.7 Geotextile, Type HR (Heavy Riprap)

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use fabric conforming to the following physical properties:

TEST	METHOD	VALUE ^[1]
Minimum grab tensile strength, lb	ASTM D4632	305 lb
Minimum puncture strength, lb	ASTM D6241	500 lb
Minimum apparent breaking elongation, %	ASTM D4632	15%
Maximum apparent opening size	ASTM D4751	No. 30
Minimum permittivity	ASTM D4491	0.40, s^{-1}

^[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

645.2.2.8 Geotextile, Type C (Modified SAS)

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Use fabric conforming to the following physical properties:

TEST	METHOD	VALUE ^[1]
Grab tensile strength, lb	ASTM D4632	205 lb
Puncture strength, lb	ASTM D6241	350 lb
Maximum apparent opening size	ASTM D4751	No. 50
Minimum permittivity	ASTM D4491	0.12 s^{-1}

^[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

646.3.1.1 General Marking

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Prepare the surface and apply marking as the manufacturer specifies. Provide manufacturer specifications as the engineer requests. Do not mark over a marking product with less adherence or over chipped or peeled marking. Do not remove polymer overlay materials in areas receiving pavement marking. Use only epoxy pavement marking where the contract requires marking placed on polymer overlays.

Replace paragraph five with the following effective with the December 2017 letting:

- (5) After the marking can sustain exposure to traffic, re-apply clear protective surface treatment conforming to 502.2.11 where removed from structures during marking surface preparation. Seal exposed concrete including grooves for tape. Cover marking during resealing with a system that will not degrade the marking's retroreflectivity when removed. Uncover marking before opening to traffic.

701.3 Contractor Testing

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Perform contract required QC tests for samples randomly located according to CMM 8-30. Also perform other tests as necessary to control production and construction processes, and additional testing enumerated in the contractor's quality control plan or that the engineer directs. Use test methods as follows:

TABLE 701-2 TESTING STANDARDS

TEST	TEST STANDARD
Washed P 200 analysis	AASHTO T11 ^[1]
Sieve analysis of fine and coarse aggregate	AASHTO T27 ^[1]
Aggregate moisture	AASHTO T255 ^[1]
Sampling freshly mixed concrete	AASHTO R60
Air content of fresh concrete	AASHTO T152 ^[2]
Air void system of fresh concrete	AASHTO Provisional Standard TP118
Concrete slump	AASHTO T119 ^[2]
Concrete temperature	ASTM C1064
Concrete compressive strength	AASHTO T22
Making and curing concrete cylinders	AASHTO T23
Standard moist curing for concrete cylinders	AASHTO M201

^[1] As modified in CMM 8-60.

^[2] As modified in CMM 8-70.

715.2.3.1 Pavements

Add the following as paragraph six effective with the December 2017 letting:

- (6) For new lab-qualified mixes, test the air void system of the proposed concrete mix conforming to AASHTO provisional standard TP 118. Include the SAM number as a part of the mix design submittal.

715.3.1.1 General

Replace paragraph one with the following effective with the December 2017 letting:

- (1) Provide slump, air content, concrete temperature and compressive strength test results as specified in 710.5. Provide a battery of QC tests, consisting of results for each specified property, using a single sample randomly located within each subplot. Cast three cylinders for strength evaluation. For pavement concrete, also test the air void system conforming to AASHTO provisional standard TP118 at least once per lot and enter the SAM number in the MRS for information only.

715.3.1.3 Department Verification Testing

Replace paragraph one with the following effective with the December 2017 letting:

- (1) The department will perform verification testing as specified in 701.4.2 with additional testing as required to obtain at least 1 verification test per lot for air content, slump, temperature, and compressive strength.

Errata

Make the following corrections to the standard specifications:

106.3.3.1 General

Correct errata by changing "acceptance" to "approval".

- (1) For manufactured products or assemblies, the department may base approval on a product certification or require both a product certification and production plant certification.

205.3.1 General

Correct errata by replacing paragraphs three and four with the following to reflect current practice to incorporate suitable materials.

- (3) Replace unsuitable material with satisfactory material. Trim and finish the roadway. Maintain the work done under 205 in a finished condition until acceptance.

521.2 Materials

Correct errata by deleting bullet three and including aluminum coated pipe in bullet one.

- (1) Furnish corrugated steel pipe and steel apron end walls as follows:
 - Corrugated steel culvert pipe, steel apron endwalls, aluminum coated corrugated steel culvert pipe, and other components conforming to AASHTO M36.
 - Polymer coated corrugated steel culvert pipe and pipe arch fabricated from zinc coated sheet steel conforming to AASHTO M218. Before fabrication, coat the sheets on both sides with polymer protective coating grade 250/250 according to AASHTO M246. Fabricate the pipe according to AASHTO M245.

614.3.2.2 Installing Rail

Correct errata for splice location and allow punching or drilling holes and slots.

- (1) Install rail with lap splices in the direction of traffic. Ensure that the number and dimensions of holes and bolts conforms to the plan details for new splices. Place the round head of bolts on the traffic side.
- (2) Cut rails to length by shearing or sawing; do not use cutting torches. Drill or punch bolt holes and slots; ensure that they are burr free. After installation, cut anchor bolts that project more than one inch from the nut to 1/2 inch from the nut; deburr the threaded end of cut bolts.

618.1 Description

Correct errata by deleting designated detours from the scope of Maintenance and Repair of Haul Roads.

- (1) This section describes maintaining, repairing, and restoring all public roads, streets, drainage facilities, and other components used for hauling by contractor, subcontractor, or supplier to support work for a department contract to its pre-haul condition. Public roads and streets shall be limited to those not a part of the State Trunk Highway System and from now on called haul roads.

646.3.1.2 Liquid Marking

Correct errata by changing "epoxy overlays" to "polymer overlays".

- (5) Apply liquid marking and glass beads across the line at or exceeding the following:

LIQUID MARKING	PAVEMENT TYPE	THICKNESS (mils)	BEAD APPLICATION (pounds per gallon)
Paint	all	16	8-10
Epoxy	SMA, seal coats, and polymer overlays	25	25
Epoxy	all other	20	22.5

ADDITIONAL SPECIAL PROVISION 7

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

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to paul.ndon@dot.wi.gov within 5 days of payment receipt to be logged manually.

***Additionally, for information on Subcontractor Sublet assignments, Subcontractor Payments and Payment Tracking, please refer to the CRCS Payment and Sublets manual at:

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

ADDITIONAL SPECIAL PROVISION 9-S
Electronic Labor Data Submittal for
State Funded Only Projects

(1) Use the Workforce Utilization Report Microsoft Excel spread sheet, or other compatible spread sheet (i.e., Google Spread Sheet), to report required labor data. Details and the Excel spreadsheet are available online through the department's highway construction contract information (HCCI) site on the Labor, Wages, and EEO Information page at:

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

(2) Ensure that all tiers of subcontractors, including all trucking firms, submit their labor data electronically via the Excel spread sheet to the prime contractor within 14 calendar days of the end of each quarter (quarters are defined as January-March, April-June, July-September, and October-December). The prime contractor shall coordinate collection of their subcontractors' spread sheets and forward them to the Regional Labor Compliance Specialist within 21 calendar days of the end of each quarter. Every company or contractor providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected companies or contractors aware of the requirements under this special provision and arrange for them to receive an Excel spreadsheet as part of their subcontract documents.

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

Non-discrimination Provisions

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
- b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

Effective August 2015 letting

BUY AMERICA PROVISION

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

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

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

<http://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc>

March 2017

**NOTICE TO BIDDERS
WAGE RATE DECISION**

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.



Proposal Schedule of Items

Page 1 of 7

Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	204.0115 Removing Asphaltic Surface Butt Joints	1,233.000 SY	_____.	_____.
0004	204.0120 Removing Asphaltic Surface Milling	6,476.000 SY	_____.	_____.
0006	204.0125 Removing Asphaltic Surface Milling	6,740.000 TON	_____.	_____.
0008	204.0150 Removing Curb & Gutter	1,583.000 LF	_____.	_____.
0010	204.0155 Removing Concrete Sidewalk	588.000 SY	_____.	_____.
0012	204.0245 Removing Storm Sewer (size) 01. 8-Inch	140.500 LF	_____.	_____.
0014	204.0250 Abandoning Manholes	1.000 EACH	_____.	_____.
0016	204.0280 Sealing Pipes	3.000 EACH	_____.	_____.
0018	204.9105.S Removing (item description) 01. LOOP DETECTOR WIRE & LEAD-IN CABLE - STH 20 & TAYLOR AVE	LS	LUMP SUM	_____.
0020	204.9105.S Removing (item description) 02. LOOP DETECTOR WIRE & LEAD-IN CABLE - STH 20 & PHILLIPS AVE	LS	LUMP SUM	_____.
0022	204.9105.S Removing (item description) 03. LOOP DETECTOR WIRE & LEAD-IN CABLE - STH 20 & STH 32 / RACINE AVE	LS	LUMP SUM	_____.
0024	213.0100 Finishing Roadway (project) 01. 2440- 12-60	1.000 EACH	_____.	_____.
0026	405.0100 Coloring Concrete WisDOT Red	16.000 CY	_____.	_____.
0028	405.1000 Stamping Colored Concrete	4.000 CY	_____.	_____.
0030	440.4410 Incentive IRI Ride	12,832.000 DOL	1.00000	12,832.00



Proposal Schedule of Items

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Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	455.0605 Tack Coat	3,436.000 GAL	_____.	_____.
0034	460.2000 Incentive Density HMA Pavement	5,010.000 DOL	1.00000	5,010.00
0036	460.6424 HMA Pavement 4 MT 58-28 H	6,945.000 TON	_____.	_____.
0038	465.0110 Asphaltic Surface Patching	868.000 TON	_____.	_____.
0040	520.8000 Concrete Collars for Pipe	10.000 EACH	_____.	_____.
0042	601.0600 Concrete Curb Pedestrian	44.000 LF	_____.	_____.
0044	602.0410 Concrete Sidewalk 5-Inch	5,559.000 SF	_____.	_____.
0046	602.0505 Curb Ramp Detectable Warning Field Yellow	748.000 SF	_____.	_____.
0048	608.0512 Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	207.500 LF	_____.	_____.
0050	611.0420 Reconstructing Manholes	1.000 EACH	_____.	_____.
0052	611.0430 Reconstructing Inlets	2.000 EACH	_____.	_____.
0054	611.8110 Adjusting Manhole Covers	2.000 EACH	_____.	_____.
0056	611.8115 Adjusting Inlet Covers	5.000 EACH	_____.	_____.
0058	619.1000 Mobilization	1.000 EACH	_____.	_____.
0060	628.1504 Silt Fence	313.000 LF	_____.	_____.
0062	628.1520 Silt Fence Maintenance	313.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	628.1905 Mobilizations Erosion Control	10.000 EACH	_____.	_____.
0066	628.1910 Mobilizations Emergency Erosion Control	5.000 EACH	_____.	_____.
0068	628.7015 Inlet Protection Type C	132.000 EACH	_____.	_____.
0070	628.7020 Inlet Protection Type D	16.000 EACH	_____.	_____.
0072	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	118.000 EACH	_____.	_____.
0074	637.2210 Signs Type II Reflective H	1,295.110 SF	_____.	_____.
0076	637.2215 Signs Type II Reflective H Folding	179.040 SF	_____.	_____.
0078	637.2230 Signs Type II Reflective F	217.350 SF	_____.	_____.
0080	638.2602 Removing Signs Type II	185.000 EACH	_____.	_____.
0082	638.3000 Removing Small Sign Supports	82.000 EACH	_____.	_____.
0084	643.0300 Traffic Control Drums	8,694.000 DAY	_____.	_____.
0086	643.0420 Traffic Control Barricades Type III	12,814.000 DAY	_____.	_____.
0088	643.0705 Traffic Control Warning Lights Type A	25,628.000 DAY	_____.	_____.
0090	643.0715 Traffic Control Warning Lights Type C	1,952.000 DAY	_____.	_____.
0092	643.0900 Traffic Control Signs	41,637.000 DAY	_____.	_____.
0094	643.1000 Traffic Control Signs Fixed Message	96.000 SF	_____.	_____.
0096	643.1050 Traffic Control Signs PCMS	651.000 DAY	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0098	643.1070 Traffic Control Cones 42-Inch	35,370.000 DAY	_____.	_____.
0100	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0102	644.1420.S Temporary Pedestrian Surface Plywood	55.000 SF	_____.	_____.
0104	644.1601.S Temporary Curb Ramp	18.000 EACH	_____.	_____.
0106	646.1020 Marking Line Epoxy 4-Inch	18,306.000 LF	_____.	_____.
0108	646.3020 Marking Line Epoxy 8-Inch	1,615.000 LF	_____.	_____.
0110	646.5020 Marking Arrow Epoxy	22.000 EACH	_____.	_____.
0112	646.5120 Marking Word Epoxy	9.000 EACH	_____.	_____.
0114	646.5320 Marking Railroad Crossings Epoxy	9.000 EACH	_____.	_____.
0116	646.6120 Marking Stop Line Epoxy 18-Inch	969.000 LF	_____.	_____.
0118	646.7120 Marking Diagonal Epoxy 12-Inch	589.000 LF	_____.	_____.
0120	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	2,553.000 LF	_____.	_____.
0122	646.8020 Marking Corrugated Median Epoxy	72.000 SF	_____.	_____.
0124	646.8120 Marking Curb Epoxy	105.000 LF	_____.	_____.
0126	646.8220 Marking Island Nose Epoxy	11.000 EACH	_____.	_____.
0128	646.8320 Marking Parking Stall Epoxy	506.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0130	646.9000 Marking Removal Line 4-Inch	14,092.000 LF	_____.	_____.
0132	646.9100 Marking Removal Line 8-Inch	942.000 LF	_____.	_____.
0134	646.9200 Marking Removal Line Wide	114.000 LF	_____.	_____.
0136	646.9300 Marking Removal Special Marking	15.000 EACH	_____.	_____.
0138	646.9400 Marking Removal Plowable Raised Pavement Markers	516.000 EACH	_____.	_____.
0140	649.0105 Temporary Marking Line Paint 4-Inch	12,410.000 LF	_____.	_____.
0142	649.0150 Temporary Marking Line Removable Tape 4-Inch	10,622.000 LF	_____.	_____.
0144	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	151.000 LF	_____.	_____.
0146	650.5500 Construction Staking Curb Gutter and Curb & Gutter	1,416.000 LF	_____.	_____.
0148	650.8000 Construction Staking Resurfacing Reference	8,607.000 LF	_____.	_____.
0150	650.9000 Construction Staking Curb Ramps	91.000 EACH	_____.	_____.
0152	650.9910 Construction Staking Supplemental Control (project) 01. 2440-12-60	LS	LUMP SUM	_____.
0154	652.0800 Conduit Loop Detector	732.000 LF	_____.	_____.
0156	653.0900 Adjusting Pull Boxes	4.000 EACH	_____.	_____.
0158	655.0700 Loop Detector Lead In Cable	1,074.000 LF	_____.	_____.



Proposal Schedule of Items

Page 6 of 7

Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	655.0800 Loop Detector Wire	2,473.000 LF	_____.	_____.
0162	690.0150 Sawing Asphalt	2,025.000 LF	_____.	_____.
0164	690.0250 Sawing Concrete	1,762.000 LF	_____.	_____.
0166	SPV.0035 Special 01. BACKFILL SLURRY	75.000 CY	_____.	_____.
0168	SPV.0060 Special 01. FIELD FACILITIES OFFICE SPACE	1.000 EACH	_____.	_____.
0170	SPV.0060 Special 02. CURB RAMP GRADING, SHAPING, AND FINISHING	91.000 EACH	_____.	_____.
0172	SPV.0060 Special 03. ABANDON SANITARY MANHOLE	1.000 EACH	_____.	_____.
0174	SPV.0060 Special 04. SANITARY MANHOLE, 4-FT DIAMETER	2.000 EACH	_____.	_____.
0176	SPV.0060 Special 05. REBUILD SANITARY MANHOLE	1.000 EACH	_____.	_____.
0178	SPV.0060 Special 06. FACTORY TAP, 15"X15"X6"	1.000 EACH	_____.	_____.
0180	SPV.0060 Special 07. FACTORY TAP, 12"X12"X6"	2.000 EACH	_____.	_____.
0182	SPV.0060 Special 08. RAISE SANITARY MANHOLE CASTING	1.000 EACH	_____.	_____.
0184	SPV.0090 Special 01. SANITARY SEWER, PVC PIPE SDR-35, 12-INCH	140.000 LF	_____.	_____.
0186	SPV.0090 Special 02. STEEL CASING PIPE, 18-INCH	100.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20180213010 Project(s): 2440-12-60

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0188	SPV.0090 Special 03. Concrete Curb & Gutter 12- Inch Type D	1,604.000 LF	_____.	_____.
0190	SPV.0105 Special 01. REPAIR 15 FEET PVC PIPE SDR-35, 10-INCH	LS	LUMP SUM	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

PLEASE ATTACH SCHEDULE OF ITEMS HERE