

HIGHWAY WORK PROPOSAL

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

Proposal Number: **016**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Milwaukee	2060-00-76	WISC 2019158	S Chase Avenue, City Of Milwaukee; Ohio Ave To Lincoln Ave	STH 038
Milwaukee	2110-00-72	WISC 2019160	W Lincoln Ave; Intersect With 43rd St & 27th St	LOC STR

ADDENDUM REQUIRED ATTACHED AT BACK

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: \$100,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: March 12, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time 100 Working Days	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 15%	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: Grading, base aggregate dense, concrete pavement, curb and gutter, sidewalk, storm sewer, street lighting, traffic signals, signing, pavement marking, landscaping, and traffic control	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:
<https://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 PM local time on the Thursday before the letting. Check the department's web site after 5:00 PM 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 PM 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:
<https://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 department's web site listed above or by picking up the addenda at the Bureau of Highway Construction, 4th floor, 4822 Madison Yards Way, 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 Express™ web site.
 2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

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

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

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.
- (5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.

3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

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

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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82.	Concrete Curb and Gutter Integral 31-Inch, Item SPV.0090.13.	85
83.	6-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.14; 4-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.15; 3-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.16; 2-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.17; 1-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.18.	85
84.	Temporary Pavement Marking Paint 24 Inch White, Item SPV.0090.19; Temporary Pavement Marking Tape 24 Inch White SPV.0090.20.....	89
85.	Remove and Reinstall EVP Equipment, Lincoln Avenue & 43rd St, Item SPV.0105.01; Remove and Reinstall EVP Equipment, Lincoln Avenue & 27th St, Item SPV.0105.02.....	89
86.	Video Vehicle Detection System, Lincoln Avenue & 43rd St, Item SPV.0105.03.....	90
87.	Joint Sealing, Item SPV.0180.01.	91
88.	Management of Solid Waste, Item SPV.0195.01.	91

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 2060-00-76, S Chase Avenue, City of Milwaukee, Ohio Ave to Lincoln Ave, STH 38, Project 2110-00-72, W Lincoln Ave, Intersect with 43rd St and 27th St, LOC STR, both projects located in Milwaukee 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, 2019 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 (20180628)

2. Scope of Work.

The work under this contract shall consist of concrete roadway reconstruction, new curb and gutter, new sidewalk, new storm inlets and lateral connections, new pedestrian ramps, monotube poles and mast arms, conduit, control vaults traffic signals (Structures S40-1838, S40-1839, S40-1840, S40-1841, S40-1842, S40-1843, S40-1844, and S40-1845) 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.

Both Projects

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 2019 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction meeting. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within 10 calendar days before the approved start date.

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

Fourteen days prior to the preconstruction meeting submit, as required under standard spec 108.4, in writing a satisfactory schedule of operations to the engineer. Include proposed methods of handling traffic including drawings indicating traffic signs and markings to be used. Submit revisions in traffic handling to the engineer for approval at least 48 hours in advance of making any changes in traffic operations.

Supplement standard spec 108.7 with the following:

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

Do not store equipment, vehicles, or materials on adjacent streets beyond the project limits without specific approval by the engineer.

Do not disturb or store equipment or materials in the median.

The Milwaukee County Transit System has bus route that will continue to operate during construction. Contact Melanie Flynn at (414) 343-1764 or Andy Tillman (414) 343-1728 at the Milwaukee County Transit System ten (10) days prior to switches in stages that require moving or discontinuing bus stop locations so they can modify their stops.

CONSTRUCTION ID: 2060-00-76

Construct South Chase Avenue in two stages. Stage 1 shall be work on the west half of the roadway with the east side open for two-way traffic with one lane in each direction. Stage 2 shall be work on the east half of the roadway with the west side open for two-way traffic with one lane in each direction.

Complete all driveways, sidewalk, curb and gutter and pavement to be constructed under Stage 1 and open them to pedestrian and vehicular traffic before the start of construction work on Stage 2.

Sidewalk Construction

Removal and replacement of sidewalk should be scheduled, so that the time lapse between the removal and replacement is minimal. Provide temporary sidewalk, when deemed necessary, or when directed by the engineer.

Maintain all pedestrian access to adjacent properties, businesses, and at bus stops. Provide asphalt surface at temporary crosswalks where necessary, or as directed by the engineer. Provide temporary crosswalks where necessary under the bid item SPV.0045.01 Temporary Crosswalk. Provide adequate temporary sidewalk and bridging between the curb and right-of-way line over freshly paved concrete or other obstructions on the sidewalk area at entrances to buildings as directed by the engineer. The cost of bridging shall be included in the unit bid price for 602.0410 Concrete Sidewalk 5-Inch.

When constructing the concrete pavement 8-1/2 inch, all tie bars and dowel bars placed in wet concrete are considered incidental to the cost of the bid item (Item 415.0085).

Once work has started on the contract, work continually until the contract work is complete. If the contractor desires to work on Saturday, Sunday, or nationally recognized legal holidays, he must obtain approval from the engineer at least 24 hours in advance. If scheduling changes after approval has been obtained, notify the engineer as soon as possible, but not later than 3:00 PM of the prior day.

Except where noted, keep all intersections accessible at all times, except during placing of concrete pavement and curing operations. Include any costs associated with staging operations at intersections that are to remain accessible at all times in the unit bid prices for Concrete Pavement, 8-1/2 Inch. Staging concrete paving operations in intersections will not be considered a pavement gap.

Maintain vehicular access at all times at the intersections of South Chase Avenue and South 3rd Street and South Chase Avenue and West Arthur Avenue.

Maintain or provide pedestrian access to adjacent properties, businesses, and at bus stops where necessary, as directed by the engineer. Provide adequate temporary sidewalk and bridging between the curb and right-of-way line over freshly paved concrete and other obstructions on the sidewalk area at the entrances to buildings or as directed by the engineer. The cost of bridging shall be included in the unit bid price for Concrete Sidewalk, 5-Inch.

During construction operations, ramp sawed joints at intersecting streets with asphaltic surface material between the existing pavement surface and the adjacent milled surface, as directed by the engineer, to permit the safe passing of vehicles. The cost of the materials, labor, and equipment necessary to install such ramps is to be paid under bid item 465.0105, Asphaltic Surface.

Note: The contractor may not construct median curb and gutter at pavement gap locations, until phase 2 construction is complete to ensure business access is provided at all times.

The contractor may make other arrangements with individual businesses prior to construction. The arrangement must be in writing, signed by the contractor and business owner, and approved by the construction engineer.

Inform the property owners at least 48 hours prior to removing a driveway approach that serves that property. Schedule sidewalk and driveway approach removal and replacement so that the time lapse between the removal and the replacement is minimal.

Lay out all doweled transverse joints in this project, including intersections. Ensure that the engineer approves joint layout before paving. Joint spacing must not exceed 15 feet, as shown on the standard detail drawing. Place joints at end-of-radii, center line and flange line extended, all zero face driveway openings for depressed driveways and, when feasible, at all manholes, catch basins or inlets, and water valve boxes. Include the cost of all jointing in the unit bid price for Concrete Pavement, 8-1/2 Inch.

Driveway Construction/Access

Stage construction activities in order to maintain through vehicular access on South Chase Avenue according to the traffic control plans. The staging of work activities shall provide driveway access to local businesses at all times as specified below. Staging for driveway access shall include, but is not limited to the following four methods:

A. HES Concrete Driveway

Construct driveway with 7-inch or 9-inch (as shown in the plan) high early strength concrete (HES) on Friday and open to vehicular traffic on Monday. Contact property owners to make arrangements to pour driveways on other days for business access.

B. Concrete Pavement Gap

In order to provide continuous access to the businesses, pavement gaps or adequate bridging to support businesses' vehicles shall be used. The access areas shall have ample width and length to accommodate turns from the businesses' vehicles. Temporary vehicle access to the businesses may be provided with base aggregate as directed by the engineer. Include the cost for the base aggregate in the unit bid price for Base Aggregate Dense 1¼-inch. The pavement, curb and driveways at the pavement gaps shall be constructed as soon as cure time allows vehicular access of the paved portions.

The access provided shall be wide-enough for a semi-truck turning radius.

C. Alternate Driveways

Keep one driveway in place while the other is being constructed or open.

D. Halves

Construct driveway one half at a time.

ADDRESS	LOCATION	METHOD
123 W Oklahoma Ave	04+10 and 08+25; LT	B&D
3160 S Chase Ave	09+50; RT	A&B&D
3124 S Chase Ave	12+55; RT	D
3042-72 S Chase Ave	16+45 and 17+40; RT	B&C&D
3073 S Chase Ave	18+50 and 20+75; LT	B&D
3030 S Chase Ave	19+75; RT	D
2991 S Chase Ave	21+38; LT	D
2960-84 S Chase Ave	22+75 and 26+00; RT	A&C
2969 S Chase Ave	23+00 and 24+25; LT	B&D
2929 S Chase Ave	30+85; LT	B&D
2715 S Gladstone Pl	35+40; RT	D
2775 S Chase Ave	38+00; LT	B&D
2701 S Chase Ave	40+75; LT	A&B&D
2650-2700 S Chase Ave	40+75 and 44+00; RT	B&C
2644 S Chase Ave	46+50; RT	A&B&D
2474 S Chase Ave	57+60 and 60+75; RT	C&D
2475 S Chase Ave	59+75; LT	D
2469 S Chase Ave	60+15; LT	D
2459 S Chase Ave	61+50; LT	D
2425 S Chase Ave	67+25; LT	D
2419 S Chase Ave	67+75; LT	D
2413 S Chase Ave	68+40; LT	D

2409 S Chase Ave	68+55; LT	D
2403 S Chase Ave	69+80; LT	D
2341 S Chase Ave	70+25 and 70+80 and 71+70; LT	A&B&C

Note: The contractor may not construct median curb & gutter at pavement gap locations, until phase 2 construction is complete to ensure business assess is provided at all times.

The contractor may make other arrangements with individual businesses prior to construction. The arrangement must be in writing, signed by the contractor and business owner, and approved by the construction engineer.

Inform the property owners at least 48 hours prior to removing a driveway approach that serves that property. Schedule sidewalk and driveway approach removal and replacement so that the time lapse between the removal and the replacement is minimal.

CONSTRUCTION ID: 2110-00-72

Complete all construction operations under project 2110-00-72 and open Lincoln Avenue, 43rd Street, and 27th Street to through traffic prior to 12:01 AM November 11, 2019.

4. Traffic.

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.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying South Chase Avenue (STH 38) and West Lincoln Avenue at South 27th Street and South 43rd Street 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 24, 2019 to 6:00 AM Tuesday, May 28, 2019 for Memorial Day;
- From noon Wednesday, July 3, 2019 to 6:00 AM Monday, July 8, 2019 for Independence Day;
- From noon Friday, August 30, 2019 to 6:00 AM Tuesday, September 3, 2019 for Labor Day.

stp-107-005 (20050502)

6. Utilities - Construction ID 2060-00-76.

This contract does not come under the provision of Administrative Rule Trans 220.

stp-107-066 (20080501)

Coordinate construction activities with a call to Digger's Hotline or a direct call to the utilities that have facilities in the area as required by statutes. Use caution to ensure the integrity of underground facilities. Maintain code clearances from overhead facilities at all times.

Note: Bidders are advised to contact each utility company listed in the plans prior to preparing their bid to obtain current information on the status of each utility company's work required in association with the project. Existing trees, street light poles, hydrants and utility poles are to remain in place during construction. Conduct an on-site visit prior to bidding to determine any special measures required for proper clearance between the trees, hydrants, poles, other utilities and any other physical structures and the paving equipment. All bidders shall be capable of providing zero clearance behind the curb to accommodate existing obstructions at no additional cost to the project. During paving operations keep all manholes accessible by utility companies for emergencies.

AT&T

AT&T forces will remove the following handholes that are in conflict with the proposed roadway alignment and relocate them within the sidewalk area prior to the start of the paving project:

Station 16+45, LT 18' Station 21+47, LT 22' Station 23+40, LT 31' Station 30+45, LT 43'
Station 40+55, RT 40'

AT&T forces will relocate an existing wood pole at Station 57+44, RT 37' that is in conflict with a proposed driveway approach to a new location prior to the start of roadway the paving project:

AT&T forces will adjust the following facilities including clay duct packages and fiber optic and copper cables that are in conflict with the proposed storm sewer laterals and inlets in conjunction with paving operations:

Station 14+00, LT 84' Station 15+48, RT 12' Station 16+99, LT 12' Station 18+22, LT 22'
Station 19+62, LT 22' Station 21+45, LT 22' Station 25+72, LT 45' Station 29+20, LT 45'
Station 32+20, LT 44' Station 72+03, LT 16'

AT&T will adjust the following manhole frames and covers to the proposed roadway grades in conjunction with paving operations:

Station 14+93, RT 13' Station 14+97, RT 13' Station 74+46, LT 17'

AT&T has facilities that are no longer in use. These facilities include a direct buried 900 pair copper cable in S. Chase Avenue north of E. Manitoba Street as well as 2 direct buried 25 pair copper cables at the intersection of S. 1st Street.

Estimated 85 working days for all adjustments. Contact Matthew Dinnauer at (262) 896-7690 five working days in advance to coordinate this work and for questions and concerns.

American Transmission Company (ATC)

ATC has a 138kV pipe shown in the plans within the project limits. ATC also has a fiber consisting of four 1.25-inch ducts installation from E. Dakota Street to E. Rosendale Avenue. No work is scheduled by ATC on these facilities. Maintain safe working clearances to these lines at all times during construction.

Contact Ron Latus at (262) 832-8688 for coordination of the work if needed.

Charter Communications/Spectrum (CCS)

CCS has overhead cables within the limits of the project on WE Energies poles. CCS facilities will be relocated at the time WE Energies relocates poles prior to the start of construction.

City of Milwaukee-Communications

There are Communications facilities located within the project limits. Cabling through existing conduit will be discontinued from Station 01+99.6, 46.5' RT to Station 09+09, 45.3' RT and relocated to alternative conduit within the project limits prior to construction. Contact Bryan Pawlak at (414) 286-3686 or Communications Dispatch at (414) 286-5971, for anticipated conflicts or if conduit facilities are damaged by the contractor.

City of Milwaukee-City Underground Conduit (CUC)

There are existing CUC packages located in South Chase Avenue between East Ohio Avenue and East Dakota Street. The CUC will remain in place and active throughout construction with the exception of 2 clay tile conduit packages from Station 01+99.6, 46.5' RT to Station 09+09.2, 45.3' RT. All cables from these 2 clay tile conduit packages will be removed prior to construction. Failing manholes on the CUC to remain in service shall be replaced by the contractor as part of this project.

New conduit and manhole packages are to be installed by the contractor as part of the project.

Contact Karen Rogney at (414) 286-3243 seven working days in advance of working on CUC facilities.

City of Milwaukee-Forestry

There are sprinklers in the median that will be removed by City forces prior to the start of construction operations, this work will take 7 working days to complete. New sprinklers will be installed at new locations by City forces in coordination with construction operations, this work will take 6 days to complete. Contact Mr. James Kringer at (414) 708-2428, james.kringer@milwaukee.gov, at least 1 working day prior to removals, to coordinate the work.

City of Milwaukee-Sewers

The City of Milwaukee has sewer facilities within the limits of the project. Adjustment and construction of sewer laterals, manholes, and inlets shall be done by the contractor as part of this project.

Contact Mr. Mohammad Abu Lughod, (414) 286-2767 (office) or (414) 708-3085 for coordination of the work.

City of Milwaukee-Street Lighting

Temporary street lighting will be installed and existing street lighting poles will be removed by City forces before the start of paving operations. Contact Mr. Dennis Miller at (414) 286-5942 office (414) 708-4251 cell 5 working days in advance if adjustments to temporary overhead lighting is needed. This work will take 25 working days to complete.

Street Lighting personnel will install the remaining permanent underground facilities beyond what the contractor has installed. After completion of construction, street lighting personnel will make the final connections to place the newly installed material into service and remove the temporary street lighting. This work will take 15-25 working days to complete.

The engineer and/or contractor shall keep the Street Lighting Construction supervisors informed of the status of the roadway construction. Contact Mr. George Berdine at (414) 286-5943 office, (414) 708-4245 cell or Mr. Dennis Miller at (414) 286-5942 office (414) 708-4251 cell. If neither Mr. Miller nor Mr. Berdine is available, then contact our dispatcher at (414) 286-5944 or (414) 286-3015 after hours.

Keep the area behind the curb free from over pour and other debris.

If the contractor requests the relocation of any street lighting facilities, permanent or temporary for his convenience he will be responsible for all costs incurred by Street Lighting personnel fulfilling his request.

Any questions regarding the design of the lighting system are to be directed to Street Lighting engineering. Contact Mr. Eng-Kie Lee (414) 286-2174.

City of Milwaukee-Traffic Signals and Signs

There are three City Traffic signalized intersections located within the limits of the project. South Chase Avenue & East/West Oklahoma Avenue, South Chase Avenue & South 1st Street, and South Chase Avenue & West Lincoln Avenue. Removing of existing concrete signal bases, installation of new signal bases, monotube bases, PVC conduit, polymer concrete pullboxes, and steel monotube poles with accompanying mast arms and luminaire mounting plates will be furnished and installed by the contractor as part of this project. Pre-cast traffic signal cabinet bases will be furnished and installed by the City of Milwaukee in coordination with construction operation.

Prior to construction, the City of Milwaukee will build temporary overhead, install temporary traffic signals as needed, and remove/relocate conflicting traffic signal equipment including signal poles/mast arms, traffic signal standards, and traffic control cabinets. This work will take 30 working days to complete.

All cabling and above ground signal work including installing traffic signal standards, traffic signal head, and any additional permanent traffic control equipment will be furnished and installed by City of Milwaukee forces in coordination with construction operations and as part of a Local Force Account (LFA) contract that is related to the project. This work will take 30 working days to complete.

Provide a 35-working day advance notice to Mr. Alfonso Nichols Jr. of the City of Milwaukee's Traffic Signal Field Operations at (414) 286-5941 (office) or (414) 708-5148 (mobile) to coordinate the installation of traffic signal materials as well as any City traffic signal concerns.

City of Milwaukee-Water

The City of Milwaukee has water facilities located within the limits of the project.

Water service boxes and water gate valve boxes will be adjusted by the contractor as part of the project. See bid item Adjusting Water Service Boxes.

14 Water hydrants located at the following stations will be relocated under separate contract by others, in coordination with paving operations.

Station 1+75, 40' RT	Station 5+24, 35' RT	Station 11+71, 37' RT	Station 12+62, 40' LT
Station 15+24, 79' RT	Station 20+56, 21' LT	Station 24+63, 37' LT	Station 29+14, 35' LT
Station 35+04, 34' LT	Station 40+21, 37' RT	Station 44+73, 41' LT	Station 45+64, 38' LT
Station 68+74, 37' LT	Station 73+35, 70' RT		

Water manholes will be adjusted by the contractor as part of the project. See item Adjusting Water Manholes Frame and Lid.

30" water main is located in South Chase Avenue as indicated on the plans. No work is proposed to be done on the water main as part of this project.

There are two discontinued water mains within the project limits. There is a 6" main from Station 45+65 to Station 48+94 and a 30" main from Station 47+19 to Station 49+60 with various piping stemming to the east from Station 35+65 to Station 49+60.

The following inlet locations will require water main protection.

Station 5+37, 8' LT	Station 15+75, 65.2' RT	Station 16+50, 30' RT	Station 18+75, 66' RT
Station 19+62.5, 22' LT	Station 20+10, 66' RT	Station 21+00, 83' RT	Station 21+45, 22' LT
Station 21+51, 66' RT	Station 26+96, 44' RT	Station 27+71, 3' RT	Station 29+00, 41' LT
Station 30+20, 44' RT	Station 32+20, 44' LT	Station 32+75, 40.5' RT	Station 34+93, 41' LT
Station 43+57, 44' LT	Station 56+13, 55' LT	Station 63+11.5, 62' RT	Station 67+19.6, 97' LT
Station 68+41, 25' LT	Station 69+50, 25.5' LT	Station 71+52, 25' LT	Station 71+94, 25' LT
Station 73+87, 25' LT	Station 74+34, 27' LT		

Contact Mr. Mohammad Abu Lughod, (414) 286-2767 (office) or (414) 708-3085 for coordination of the work.

Level 3 Communications LLC

Level 3 Communications LLC has facilities within the project limits that will not be impacted by this construction.

MCI/Verizon Business

MCI has facilities within the project limits that will not be impacted by this construction.

Midwest Fiber Network (MWFN)

Midwest Fiber Network has aerial fiber crossing S. Chase Avenue at the alley south of W. Lincoln Avenue. This cable will be relocated at the time of WE Energies pole relocations prior to the start of paving operations. Contact Carter Robbins at (414) 459-3571 or (414) 349-1188 for coordination of the work if needed.

Milwaukee Metropolitan Sewerage District

The contractor is to remove the MMSD meter pedestal located at Station 26+75, 35'LT. MMSD will coordinate the adjustment of 21 manhole structure with the contractor during construction. MMSD will provide labor and materials to perform the required structure adjustments to the proposed finished pavement grade. MMSD will also reconstruct the manhole located at Station 27+30, 1'LT. Contractor must provide a minimum 5-day notice to schedule the work. Estimated 18 working days to complete. Please contact Anthony Jackson at (414) 747-3867 or (414) 841-9553.

TDS Metrocom

TDS has underground conduit and fiber cable within the project limits. TDS maintains underground fiber cable inside city owned duct along the north side Oklahoma. Facilities within the project limits are located at Station 15+87, 50'RT, Station 14+67, 30'LT and Station 68+60, 22'RT.

TDS will adjust their manholes within the project limits in conjunction with paving operations. Each manhole frame and cover adjustment will take 0.5 days to complete. Contact Matthew Schulte at (262) 754-3063 or (262) 409-1177 five days in advance.

Teleport Communications America, LLC (TCA)

TCA has facilities that cross S. Chase Avenue near Station 45+69 at a depth of 36-42 inches. No work is scheduled by TCA on these facilities. The contact person is Jennifer Navarro at (414) 459-3564 or (414) 651-0036.

We Energies – Gas

We Energies – Gas has underground facilities throughout the project. WE Energies will discontinue in place existing facilities at the following locations prior to construction operations:

- Station 1+56; 62' RT to 41' RT to Station 8+23; 41' RT to 53' RT to Station 11+86; 53' RT to 45' RT to Station 13+35; 45' RT to Station 13+41; 52' RT to Station 13+53; 53' RT
- Station 15+31; 17' LT to Station 15+82; 17' LT to Station 15+89; 24' LT to Station 15+96; 24' LT
- Station 21+54; 24' LT to Station 21+55; 76' RT
- Station 38+88; 27' RT to Station 45+68; 27' RT to Station 45+81; 53' RT
- Station 57+45; 40' LT to Station 57+90; 94' LT / Station 57+40; 39' LT to Station 58+38; 39' LT to Station 58+53; 35' LT to Station 58+66; 35' LT

- Station 71+83; 84' LT to Station 72+22; 47' LT to Station 72+24; 48' LT to Station 72+46; 29' LT

We Energies will construct new gas facilities at the following locations prior to the start of roadway construction:

- Station 1+56; 62' RT to Station 1+99; 62' RT to 54' RT to Station 8+06; 54' RT to 64' RT to Station 8+63; 64' RT to 54' RT to Station 13+09; 54' RT to Station 13+53; 60' RT to 53' RT
- Station 15+28; 26' LT to Station 15+96; 26' LT to 24' LT
- Station 21+61; 24' LT to Station 21+65; 76' RT to Station 21+55; 76' RT
- Station 38+88; 27' RT to 40' RT to Station 39+65; 49' RT to Station 45+81; 53' RT
- Station 57+40; 39' LT to 53' LT to Station 57+58; 53' LT to Station 57+92; 92' LT to Station 57+90; 94' LT
- Station 57+92; 92' LT to Station 58+31; 63' LT to Station 58+26; 54' LT to Station 58+66; 54' LT to 35' LT
- Station 71+83; 84' LT to Station 71+89; 92' LT to Station 72+46; 44' LT

The contractor is required to provide a 14-day notice and a 3 day reminder notice to notify the utility that the site is ready. Contact Paul Hebein at (414) 688-7257 or paul.hebein@we-energies.com. Contractor must call the 24-hour dispatch line at (800) 261-5325, to arrange verification for unmarked facilities.

We Energies – Electric

We Energies - Electric has underground and overhead facilities within the project limits. No conflicts are anticipated with overhead facilities. We Energies will relocate manhole cable and conduit package from station 27+18 LT 19' to 27+18 LT 23' prior to the start of construction. WE Energies will relocate its facilities prior to the start of road construction. Contractor should contact Leonard Wilson at (414) 944-5690 14 days prior to the start of construction as well as give a three day reminder notice.

CCS has underground facilities within the limits of the project. However, no conflicts are anticipated. The contact person is Steve Cramer at (414) 277-4045 or (414) 688-2385.

Wisconsin Department of Transportation – STOC

Wisconsin Department of Transportation – STOC has facilities within the project limits that will not be impacted by this construction.

7. Utilities – Construction ID 2110-00-72.

This contract does not come under the provision of Administrative Rule Trans 220.

stp-107-066 (20080501)

There are underground and overhead utility facilities located within the project limits. Coordinate construction activities with a call to Digger's 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.

AT&T Wisconsin

AT&T has underground facilities throughout the project limits. The following manholes in the project area will need to be adjusted during construction:

Station 14+53, 12.5' LT
Station 53+37, 6.6' LT

Station 15+08, 12.5' LT
Station 53+45, 2.5' LT

Station 51+62, 6.6' LT
Station 55+33, 4.2' LT

The contractor must provide AT&T Wisconsin with 10 working days' notice per location for frame adjustments and 5 working days' notice per location to complete cover adjustments. The adjustment will take AT&T Wisconsin 1 working day per manhole to complete.

Contact Matthew Dinnauer at (262) 896-7690 to coordinate this work and for questions and concerns.

City of Milwaukee

1. Street Lighting

The City of Milwaukee has street lighting facilities within the limits of the project. Both intersections will have areas in which temporary overhead lighting will be installed.

Prior to start of construction street lighting forces will install temporary wood poles and conductors with sufficient overhead cabling to complete connectivity to cross street lighting units in proximity. Existing poles lying inside the project limits that interfere with the permanent design will be removed by City of Milwaukee forces. The wood poles will be fitted with HPS luminaires to restore area illumination. All underground conduit will be identified as protect and adjust at this time. Work is expected to be completed in 25 working days.

Upon completion, inspection, and acceptance of the monotube installations, City forces will transfer connectivity from the overhead system to the underground conduit system and remove all temporary and functionally obsolete lighting units.

The street lighting personnel will require 7 day notice and 14 working days for overhead service transfer and existing pole, bracket and luminaire removals.

City of Milwaukee street lighting does not anticipate the placement of temporary facilities within City of West Milwaukee boundaries.

Contact Mark MacRae at (414) 286-5928 (office) or (414) 708-0434 (cell) to coordinate this work and for questions or concerns.

2. Communications

The City of Milwaukee's Communications utility has facilities within the project limits. A communications drive standard located at the SE corner of 43rd & Lincoln is approximately one foot from the high side of the existing sidewalk. It is in conflict with the new walk alignment, or the forms needed to pour the new walk. The drive standard can be relocated to remain one foot from the high side of the new walk alignment at the time the new sidewalk is installed. It is estimated that this work will be completed in 1 day.

Coordination with the contractor during construction will be required to maintain the existing clearance with the new sidewalk alignment. Provide 2 working days' notice prior to the need to relocate the drive standard is requested so that the existing clearance can be maintained with the new alignment, while still locating the drive standard within the right-of-way.

Contact Bryan Pawlak/Communication Dispatch at (414) 286-3686 to coordinate this work and for questions or concerns.

3. Underground Conduit

The City of Milwaukee's Underground Conduit utility has facilities within the project limits. No relocation work is anticipated. There is a CUC communications duct package running east/west located under the sidewalk on the south side of Lincoln Avenue.

The Contractor shall complete a Utility Line Opening (ULO) in the southeast corner of Lincoln Avenue and Layton Boulevard so as not to impact/damage the existing CUC facilities. If there is not adequate space for the installation of a monotube base, a spread footing base may be required and is to be determined by the engineer in the field.

Contact Karen Rogney at (414) 286-3243 for questions or concerns.

4. Traffic Signals

The City of Milwaukee's Traffic Signal utility has facilities within the project limits.

There are two signalized intersections maintained by the City of Milwaukee in conflict with the proposed project:

- West Lincoln Avenue and South Miller Parkway/South 43rd Street
- West Lincoln Avenue and South Layton Boulevard/South 27th Street

Prior to construction, the City of Milwaukee will install temporary overhead and temporary traffic signals as needed; and remove/relocate conflicting traffic signal equipment including traffic signal poles/mast arms, traffic signal standards, and cabinets. Any auxiliary equipment and Village of West Milwaukee signage relocation/removal will be coordinated with each facility owner. Additionally, any existing vehicle loop detectors within the project limits shall be abandoned. Upon project completion, the City of Milwaukee shall remove all temporary traffic signal facilities in coordination with reconstruction.

Permanent restoration and upgrades for the above locations in scope of this project.

All conflicting facilities shall be relocated or removed prior to construction. Coordination between the City of Milwaukee Traffic Signal staff and the contractor will not be needed for facility relocation. City of Milwaukee traffic signals and street lighting work has been coordinated where necessary.

Prior to the construction of the temporary signal facilities, the contractor shall contact Diggers Hotline.

Prior to the start of construction, provide the City 45 working days notice. It is estimated that removal of existing traffic signals and temporary traffic signals will take 25 working days.

Contact Alfonzo Nichols Jr. at (414) 286-5941 (office) or (414) 708-5148 (cell) to coordinate this work and for questions or concerns.

5. Sanitary Sewer

The City of Milwaukee's Sanitary Sewer utility has facilities within the project limits. No adjustments are planned for their facilities.

Contact Zafar Yousuf at (414) 286-2467 with questions or concerns.

6. Water

The City of Milwaukee's Water utility has facilities within the project limits. No adjustments are planned for their facilities.

Contact Dave Goldapp at (414) 286-6301 (office) or (414) 708-2695 (cell) with questions or concerns.

Midwest Fiber Networks LLC

Midwest Fiber Networks LLC has underground facilities throughout the project limits. No adjustments are planned for their facilities.

Contact Cheri Grainger at (414) 549-3550 (office) or (414) 349-0750 (cell) with questions or concerns.

MMSD

MMSD has facilities within the project limits. No adjustments are planned for their facilities.

Contact Larry Anderson at (414) 225-2241 (office) or (414) 617-1429 (cell) with questions or concerns.

Time Warner Cable

Time Warner Cable has both overhead and underground facilities within the project limits. No adjustments are planned for their facilities

Contact Steve Cramer at (414) 277-4045 (office) or (414) 688-2385 (cell) with questions or concerns.

We Energies-Electric

We Energies-Electric has underground and overhead facilities within the project limits. No adjustments are planned for their facilities.

Any facilities not explicitly identified as being relocated have been deemed to be not in conflict and will remain in place as is. It is expected that contractors will work safely around any facilities left within the work-zone. If plans change such that facilities become in conflict, it is expected that will work wit We-energies to resolve said conflict.

When working with a crane, load, or load line in the vicinity of overhead electrical facilities, the contractor will be required to maintain a minimum clearance of 20 feet. There are alternatives to the 20-foot minimum clearance, please see Table A of Section 1407-1411 of the OSHA Small Entity Compliance Guide for Final Rule For Cranes and Derricks in Construction. Since the overhead electric facilities are below 50kV, the contractor must maintain a minimum clearance of 10 feet.

The neutral conductor is a multi-grounded neutral conductor and part of a multi-grounded system as defined in the National Electrical Safety Code as adopted and amended by the Wisconsin State Electrical Code. Because the multi-grounded neutral conductor is visibly grounded at the point of work and also at multiple other locations, no specific working clearance is required between the crane or load and the multi-grounded neutral conductor.

However, some clearance is to be maintained between the crane or load and the multi-grounded neutral conductor to avoid any physical damage to the conductor or adjacent structures.

Contact Alex Dantine at (920) 621-6903 with questions or concerns.

We Energies-Gas

We Energies-Gas has underground facilities within the project limits. No adjustments are planned for their facilities.

Between Station 14+75 LT - Station 15+00 LT it is expected that the road contractor shall work safely around the existing 16" high pressure gas main with the support of a watchdog and follow all rules of Digger's Hotline. It shall be the road contractor's responsibility to protect, support and work around the 16" gas main during construction. The watchdog will respond to the Digger's Hotline ticket after the contractor calls it in.

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 the We Energies 24 hour Dispatch lines to arrange this verification. We Energies Electric Dispatch #1-800-622-4797. We Energies Gas Dispatch #1-800-261-5325.

Contact Nathan Rusch at (262) 338-7637 with questions or concerns.

8. Referenced Construction Specifications.

Some traffic signal and street lighting work is required to be executed according to City of Milwaukee Standards. The contact person for acquiring said standards is provided in the articles where the reference to City of Milwaukee Standards is made. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

9. Work Completed By Others – Construction ID: 2110-00-72.

MCTS Bus Stop Signs

Give MCTS ten business days advance notice of the schedule of beginning removing traffic signals with MCTS bus signs are to be removed. The County's contact for coordination of this work is Andy Tillman (414) 343-1728.

Street Name Signs

The City of Milwaukee and Village of West Milwaukee will supply the contractor with street name signs to be installed by the contractor for each monotube arm.

Traffic Signal Equipment Removal

The City of Milwaukee shall remove all traffic signal equipment at the following intersections:

- Lincoln Avenue & 27th Street
- Lincoln Avenue & 43rd Street

Provide the city 45 working days' notice prior to the start of construction to request the traffic signal equipment removal. Contact the city's signal dispatch at (414) 286-3687 or Alfonzo Nichols Jr. at (414) 286-5941 (office) or (414) 708-5148 (cell), if you have any questions or concerns.

Temporary Signals

The City of Milwaukee will be responsible for installation and maintenance of the temporary signals at the following intersections:

- Lincoln Avenue & 27th Street
- Lincoln Avenue & 43rd Street

Provide the City 45 working days' notice prior to the start of construction to request the traffic signal equipment removal. Contact the city's signal dispatch at (414) 286-3687 or Alfonzo Nichols Jr. at (414) 286-5941 (office) or (414) 708-5148 (cell), if you have any questions or concerns.

27th Street Underground Wiring

The City of Milwaukee will install all underground wire and cable at the intersection of Lincoln Avenue and 27th Street.

Provide the city 10 working days' notice to request the underground wiring of this intersection. Contact the city's signal dispatch at (414) 286-3687 or signal shop manager Al Nichols at (414) 708-5148, if you have any questions or concerns.

43rd Street Intersection Traffic Signal Control Cabinet Installation and Service

The City of Milwaukee will install a new traffic signal control cabinet and provide electrical service to the new traffic signal control cabinet located at the intersection of Lincoln Avenue and 43rd St. The new cabinet will be in service and used during construction to power the temporary signals.

Contact the city's signal dispatch at (414) 286-3687 or signal shop manager Al Nichols at (414) 708-5148 if you have any questions or concerns.

10. Railroad Insurance and Coordination - Soo Line Railroad Company (CP)

A Description

Comply with standard spec 107.17 for all work affecting Soo Line Railroad Company (CP) 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 Soo Line Railroad Company d/b/a Canadian Pacific.

Notify evidence of the required coverage, and duration to Jim Krieger, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail: jim_krieger@cpr.ca.

Also send a copy to the following: 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 ID: 2060-00-06/76
- Project Location: Milwaukee, WI
- Route Name: STH 38 (Chase Ave) Milwaukee County
- Crossing ID: 386 469F (Roadway Underpass)
- Railroad Subdivision: C&M Sub
- Railroad Milepost: 82.38
- Work Performed: Reconstruction of roadway

A.2 Train Operation

Approximately 16 passenger trains and 36 through freight trains operate daily through the construction site. Passenger trains operate at up to 70 mph. Through freight trains operate at up to 60 mph.

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

Construction Contact

Jim Krieger, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4555; E-mail jim_krieger@cpr.ca 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

Dave LeClaire, Supervisor of Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 330-4556; E-mail dave.leclaire@cpr.ca Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

* Contact Soo Line (CP) prior to letting for flagman work hour availability.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact CP Call Before You Dig line at (866) 291-0741, five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Soo Line (CP) will only locate railroad owned facilities located 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.

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11. 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 the following:

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 ID: 2110-0072
Project Location: Milwaukee WI
Route Name: Lincoln Ave, Milwaukee County
Railroad Subdivision: Milwaukee Sub
Crossing ID: 177 213B
Railroad Milepost: 6
Work Performed: Update of traffic signals, some handicap ramps, curb & gutter improvements.

A.2 Train Operation

Approximately 22 through freight trains operate daily at up to 10 mph. Train switching movements may also occur in the project area.

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.

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12. Erosion Control.

Perform this work according to the requirements of standard spec 107.20 and as hereinafter supplemented.

Take adequate precautions to install and maintain necessary erosion and sediment control during grading and construction operations at curbs and gutters, and at other locations determined by the engineer. Protect storm drain inlets and manholes, as determined by the engineer, with a filter fabric meeting accepted design criteria, standards, and specifications. Maintain all erosion control measures until such time that the engineer determines the measures are no longer necessary.

Submit the Erosion Control Implementation Plan (ECIP) a minimum of 14 days prior to the preconstruction meeting for approval by the department and concurrence by the Wisconsin Department of Natural Resources (DNR). Contractor will not be allowed to start until written approval has been received from the department.

13. Notice to Contractor – Possible On-site Locations for Rusty Patched Bumble Bee.

Per the U.S. Fish and Wildlife Service's Voluntary Implementation Guidance of the Endangered Species Act and the Wisconsin Natural Heritage Inventory Screening Guidance for Rusty Patched Bumble Bee has been conducted and the following locations within the limits of the project have been identified as possible on-site locations for Rusty Patched Bumble Bee.

1. Soo Railroad Corridor (overpass); located approximately between Stations 36+50 and 38+50.

2. Kinnickinnic River Parkway Bridge; located approximately between Stations 47+25 and 48+25.
3. Milwaukee County Parks, on the east side of South Chase Avenue approximately between Stations 51+00 and Station 63+00.

Based on draft guidance from the Wisconsin Department of Natural Resources, applicable conservation measures shall be taken wherever tree clearing takes place within the above three identified locations. The total 0.5 acre of tree clearing is scattered throughout the limits of the project and none of that are located directly adjacent to the three locations identified as possible on-site locations for Rusty Patched Bumble Bee. No trees shall be cleared within the limits of the identified locations above without the engineer's approval.

Perform the landscaping work necessary and as part of the conservation measures according to the requirements of standard spec 632.

Perform all trees clearing work required under this contract, subject to the engineer's approval.

14. Notice to Contractor – Emerald Ash Borer.

Clearing and Grubbing

This applies to projects in the emerald ash borer (EAB) quarantined zones to include the following counties:

Brown	Crawford	Fond du Lac	Kenosha
La Crosse	Milwaukee	Ozaukee	Racine
Sheboygan	Vernon	Washington	Waukesha

Supplement standard spec 151-1.3 with the following:

The emerald ash borer (EAB) has resulted in a quarantine of ash trees (*Fraxinus sp.*) by the Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) and the Wisconsin Department of Natural Resources (DNR).

Ash trees species attacked by emerald ash borer include the following:

- Green ash (*F. pennsylvanica*) is found throughout the state, but is most common in southern Wisconsin. It may form pure stands or grow in association with black ash, red maple, swamp white oak, and elm. It grows as an associate in upland hardwood stands, but is most common in and around stream banks, floodplains, and swamps.
- Black ash (*F. nigra*) is distributed over the entire state but is most frequently found in northern Wisconsin. It is most common in swamps, but is also found in other wet forest types.
- Blue ash (*F. quadrangulata*) is a threatened species that is currently found only at a few sites in Waukesha County. The species is at the edge of its range in Wisconsin, but is common in states farther south. The species is not of commercial importance. Blue ash twigs are 4-sided.
- White ash (*F. americana*) tends to occur primarily in upland forests, often with sugar maple (*Acer saccharum*).

The quarantine of ash trees includes all horticultural cultivars of the species listed above.

Note that blue ash twigs are 4-sided. All other Wisconsin ash trees have round stems. Also, Mountain ash (*Sorbus americana* and *S. decora*) is not a true ash and is not susceptible to EAB infestation.

The contractor shall be responsible for hiring a certified arborist to identify all ash trees that will be cleared and grubbed for the project. In addition, prior to scheduled clearing and grubbing activities, the arborist shall mark all ash trees with florescent lime flagging tied around the trunk perimeter.

Follow and obey the following Wisconsin Department of Agriculture, Trade, and Consumer Protection order:

ATCP 21.17 Emerald ash borer; import controls and quarantine.

Importing or Moving Regulated Items from Infested Areas; Prohibition.

Except as provided in subparagraph (3), no person may do any of the following:

- (a) Import a regulated item under sub. (2) into this state if that item originates from an emerald ash borer regulated area identified in 7CFR 301.53-3.
- (b) Move any regulated item under sub. (2) out of an emerald ash borer regulated area that is identified in 7CFR 301.53-3 and located in this state.

Note: The United States Department of Agriculture-Animal and Plant Health Inspection Service (USDA-APHIS) periodically updates the list of regulated areas in 7CFR 301.53-3. subsection (1) applies to new regulated areas as those areas are identified in the CFR.

Regulated Items

The following are regulated items for purposes of subparagraph (1):

- The emerald ash borer, *Agrilus planipennis* Fairmaire in any living stage.
- Ash trees.
- Ash limbs, branches, and roots.
- Ash logs, slabs or untreated lumber with bark attached.
- Cut firewood of all non-coniferous species.
- Ash chips and ash bark fragments (both composted and uncomposted) larger than one inch in diameter.
- Any other item or substance that may be designated as a regulated item if a DATCP pest control official determines that it presents a risk of spreading emerald ash borer and notifies the person in possession of the item or substance that it is subject to the restrictions of the regulations.

Regulatory Considerations

The quarantine means that ash wood products may not be transported out of the quarantined area.

Clearing and grubbing includes all ash trees that are to be removed from within the project footprint. If ash trees are identified within clearing and grubbing limits of the project, the following measures are required for the disposal:

Chipped Ash Trees

May be left on site if used as landscape mulch within the project limits. If used as mulch on site, chips may not be applied at a depth greater than standard mulch applications as this will impede germination of seeded areas.

With the written permission of the engineer, chipped material may be buried on site within the airport property as directed by the engineer according to section 201.3(14) of the DOT standard specifications for highway and structure construction.

May be buried on adjacent properties to projects within the quarantined zone with prior approval of the engineer according to standard spec 201.3 (15).

May be trucked to a licensed landfill within the quarantined zone with the engineer's approval according to standard spec 201.3(15).

Chips must be disposed of immediately if not used for project mulching and may not be

stockpiled and left on site for potential transport by others. Chips may be stockpiled temporarily if they will be used for project mulching and are not readily accessible to the public.

Chipper equipment must be cleaned following post-chipping activities to ensure no spread of wood chip debris into non-quarantined counties.

Ash logs, Branches, and Roots

May be buried without chipping within the existing right-of-way or on adjacent properties according to standard spec 201.3 (14) (15).

May be trucked to a licensed landfill within the quarantined zone with the engineer's approval according to standard spec 201.3 (15).

Ash logs, branches, and roots must be disposed of immediately and may not stockpiled.

All additional costs will be incidental to clearing and grubbing items.

Do not bury or use mulch in an area that will be disturbed again during later phases of the project.

Anyone moving firewood or ash products from the state or these counties is subject to state and federal fines up to \$1,000.00. All fines are the responsibility of the contractor.

Obtain updated quarantine information at the DNR Firewood Information Line at 1 (800) 303-WOOD.

Furnishing and Planting Plant Materials

Ash trees may be obtained from inside or outside the quarantine area and planted within the quarantined area. Ash trees from within the quarantine area may not be transported and planted into the non-quarantined area.

Updates for Compliance

Each year, as a service, the Wisconsin department of agriculture, trade and consumer protection distributes an updated federal CFR listing to nursery license holders and other affected persons in this state. More frequent updates, if any, are available on the Department of Agriculture, Trade, and Consumer Protection (DATCP) website at www.datcp.state.wi.us. subsection (1) applies to new regulated areas as those areas are identified in the CFR, regardless of whether affected persons receive update notices from the DATCP. Persons may request update notices by calling (608) 224-4573, by visiting the DATCP website, or by writing to the following address:

Wisconsin Department of Agriculture, Trade and Consumer Protection
Division of Agricultural Resource Management
P.O. Box 8911
Madison WI 53708-8911

Regulated Items

More frequent updates, if any, are available on the DATCP website at www.datcp.state.wi.us. subsection (1) applies to new regulated areas as those areas are identified in the CFR, regardless of whether affected persons receive update notices from DATCP. Persons may request update notices by calling (608) 224-4573, by visiting the DATCP website, or by writing to the above address.

15. Tree and Planting Area Protection – Construction ID: 2060-00-76.

The following 141 trees are to be removed by the contractor:

West side of road:

2+37; 2+85; 3+29; 3+70; 4+56; 5+00; 5+48; 5+93; 6+46; 6+85; 7+22; 7+66; 8+64; 9+04; 9+41
10+26; 10+70; 11+05; 11+54; 12+70; 15+56; 16+07; 16+52; 16+85; 17+52; 18+07; 18+75;

19+14; 19+53; 19+94; 20+33; 21+55; 22+05; 22+50; 24+74; 25+17; 25+57; 26+75; 27+53;
28+18; 28+72; 29+25; 29+83; 30+24; 30+55; 31+31; 32+40; 32+94; 32+94; 33+27; 33+65;
34+29; 34+56; 35+25; 38+71; 38+92; 39+04; 39+56; 39+89; 40+31; 42+00; 42+32; 42+98;
44+90; 45+22; 48+55; 51+54; 52+06; 55+40; 55+66;

Eastside of road:

3+09; 3+51; 3+86; 4+03; 4+22; 4+72; 5+09; 5+52; 6+24; 6+65; 7+20; 7+70; 10+16; 10+54
10+95; 11+51; 11+83; 14+56; 25+05; 25+55; 26+35; 26+72; 27+21; 32+00; 32+61; 33+61;
33+85; 34+56; 35+88; 36+31; 40+54; 41+27; 41+80; 42+20; 42+73; 43+39; 44+64; 45+20;
51+06; 62+05; 62+59; 73+43

Median:

5+44; 5+61; 5+76; 6+05; 6+19; 16+94; 18+92; 19+45; 19+89; 24+56; 25+02; 25+24; 32+24;
32+53; 32+84; 33+78; 34+37; 51+15; 52+43; 52+72; 53+86; 54+10; 55+35; 55+69; 58+73;
59+26; 59+61; 59+74; 60+27

A Sidewalk Construction

The root system on the walk side of the tree shall be cut not deeper than 9 inches below the finished grade of the new walks, and not more than 5 inches from the edge of the new walk. Roots in the walk area shall be removed only to a depth of 9 inches below finished grade of the new walk.

When replacing sidewalks adjacent to the following trees, a slip or thin form must be used. Additionally, soil disturbance in the tree border shall be limited to not more than ¼" beyond the edge of the new walk.

Station 38+62, W/S; Station 38+91, W/S; Station 56+12, W/S; Station 61+05, W/S; Station 62+09, W/S.

Adjacent to the following trees, the new sidewalk shall be arced.

Station 30+24, E/S; Station 52+49, E/S; Station 52+87, E/S; Station 6+20, W/S

Sidewalks are to be removed, and roots cut, by use of hand implements only.

B Carriage Walk Construction

When constructing or replacing carriage walks, roots shall not be cut by means of mechanical root cutting machines. If root removal is essential to carriage walk replacement, roots shall be manually cut with hand implements. Roots shall be removed not deeper than 9 inches below the finished grade of the new carriage walk.

C Curb, Gutter, and Road Construction

The root system on the curb side shall be cut not more than 2 inches behind the back edge of the new curb, and not more than 18 inches in depth when constructing the new curb and gutter.

The root system on the curb side shall be cut not more than ¼" from the back edge of the new curb, and a ¼" slip or thin form, or slip form paver, shall be used for the following trees:

West side of road:

2+42; 38+62; 38+91; 58+45; 58+82; 59+32; 60+74; 61+20

East side of road:

44+68; 45+20; 46+14; 51+51; 51+71; 52+49; 54+87

The root system on the curb side shall not be cut (1) a 0" clearance slip or integral form paver can be used; or (2) gap and hand form using ¼" steel plate for the following tree:

30+24, E/S

When constructing or replacing driveways or driveway approaches, roots shall not be cut by means of mechanical root cutting machines. If root removal is essential to driveway replacement, roots shall be manually cut with hand implements.

Exposed tree roots shall be covered with mulch and watered from a period immediately following curb and gutter removal, until the area is backfilled following construction.

General

All cutting for the removal of sod and soil in order to establish a finished grade with 4 feet of existing trees must be done manually if necessary.

No construction equipment, cars trucks, materials shall be parked or stored on any median or tree borders on this project or adjacent roadways.

Root foundations must remain adequate to withstand heavy windstorms.

Root systems of street trees shall not be cut for the installation of any type of cable by the contractor or city department. Contact the Forestry Division at (414) 708-2428 for directional boring specification.

Caution shall be used during the construction process to avoid damage to the roots, trunks, and branches of all street trees. Damage caused to any street tree or irrigation system will be repaired by the City of Milwaukee's Forestry Division and the costs of repair, rejuvenation, and/or value lost will be billed to the contractor or credited against the contract at the option of the city.

At locations where the contractor has not complied with the forestry special requirements stated in the special provisions above, and the maximum clearance was exceeded or a thin form was not used, a minimum credit to the city of \$50.00 per location will be taken. The credit will increase in proportion to the excess distance beyond clearance allowed. The credit will be \$50.00 for each 2-inch increment or part thereof in excess of the initial clearance allowed. Any damage to the tree's structure totaling 15 percent of the trees value will be billed on a prorated basis. If, in the opinion of the City of Milwaukee's Forestry Division, the tree has been damaged to the point that it warrants removal, the credit that will be taken will be equal to \$100.00 per inch diameter of the tree. A field measurement will be taken to determine the tree size.

16. 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 9:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.

stp-107-001 (20060512)

17. Coordination with Businesses and Residents.

The contractor shall 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 at least one week before the start of work under this contract and no further meetings will be required unless directed by the engineer. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least 2 weeks prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

18. Notice to Contractor – Survey.

The contractor shall adhere to the provisions contained herein as it relates to the survey work necessary to stake out and construct all portions of this contract.

Perform all survey work required to stake out and construct the work under this contract, subject to the engineer's approval.

Digital design file information/existing surface data, including design surface DTMs and/or coordinate system GPS information will not be available for this project.

All survey work necessary to stake out and construct all portions of this project will be measured and paid for under the staking bid items designated in this contract.

19. Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR approved bioremediation facility. The closest DNR approved bioremediation facilities are:

Waste Management Metro Recycling and Disposal Facility
10712 South 124th Street
Franklin, WI 53132
(866) 909-4458

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI 53150
(414) 529-1360

Perform this work according to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Locations

The department completed testing for soil contamination at locations within this project where excavation is required.

Testing indicated that petroleum-contaminated soil is present at the following location as shown on the plans:

1. Station 19+35 to 19+90 from 10 feet left of reference line to project limits left, from approximately 1 to 6 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 64 cubic yards (approximately 108 tons using a conversion factor of 1.7 tons per cubic yard).
2. Station 19+75 to 20+25 from 50 feet right of reference line to project limits right, from approximately 1 to 6 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 55 cubic yards (approximately 94 tons using a conversion factor of 1.7 tons per cubic yard).
3. Station 21+00 to 22+00 from project limits left to 20 feet right of reference line, from approximately 1 to 6 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 264 cubic yards (approximately 449 tons using a conversion factor of 1.7 tons per cubic yard).
4. Station 38+35 to 39+70 from reference line to project limits right, from approximately 1 to 8+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 287 cubic yards (approximately 488 tons using a conversion factor of 1.7 tons per cubic yard).
5. Station 70+70 to 71+10 from reference line to project limits left, from approximately 1 to 6 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated

volume of contaminated soil to be excavated at this location is 51 cubic yards (approximately 88 tons using a conversion factor of 1.7 tons per cubic yard).

6. Station 71+10 to 72+50 from reference line to project limits left, from approximately 4 to 8+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 243 cubic yards (approximately 413 tons using a conversion factor of 1.7 tons per cubic yard).

Directly load soil excavated by the project at the above locations into trucks that will transport the soil to a WDNR-licensed bioremediation facility.

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

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

A.3 Excavation Management Plan

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

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

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd., Ste. 180, Brookfield, WI 53045
Contact: Bryan Bergmann
Phone: (262) 901-2126 (office), (262) 227-9210 (cell)
Fax: (262) 879-1220
E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

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

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in the contaminated area.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated area. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR approved bioremediation facility that will be used for disposal of contaminated soils, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the bioremediation facility. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products and metals. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

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

B (Vacant)

C Construction

Add the following to standard spec 205.3:

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

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation so as not to contain free liquids.

If dewatering is required in an area of known contamination, water generated from dewatering activities may contain contaminants and require testing, special handling and disposal. Such water may, with approval from the Milwaukee Metropolitan Sewerage District (MMSD), be discharged to the sanitary sewer as follows:

Meet all applicable requirements of the MMSD including the control of suspended solids. Perform all necessary monitoring to document compliance with the MMSD requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the MMSD requirements.

Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

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

Limit excavation in the location described in A.2 to minimize the handling of groundwater. Notify the engineer of any dewatering activities, and obtain any permits necessary to discharge or dispose of contaminated water. Provide copies of such Permit to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil, accepted by the bioremediation facility as documented by weight tickets generated by the bioremediation facility.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON

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

20. Concrete Identification Stamping.

Stamp ends of all monolithic Portland cement concrete surfaces with a stamp bearing the contractor's name and the year of construction. Make all letters 2 inches in height.

Include the cost of this work in the contract unit price for other Portland cement concrete items and no additional payment will be made.

21. Concrete Sidewalk 5-Inch.

The 2.5' x 2.5' concrete sidewalk box outs shown on the lighting conduit plans for street light poles, signal standards, and/or conduit junction boxes will be paid for under bid item 602.0410, Concrete Sidewalk 5-Inch poured within the sidewalk box outs.

22. Temporary Sidewalks and Driveways.

Construct and maintain, in satisfactory condition, temporary driveways at locations specified by the engineer. Construct temporary driveways of base aggregate dense 1¼-inch to dimensions determined by the engineer.

Maintain temporary driveways on a daily basis.

Base aggregate for construction of the temporary driveways and daily maintenance of the temporary driveways will be paid for under the item Base Aggregate Dense 1¼-Inch. Cost of labor and equipment necessary to place maintain and remove the temporary driveways shall be included in the contract unit price for Base Aggregate Dense 1¼-Inch.

23. Landmark References Monuments, Item 621.0100.

Locate and install the monuments at the direction of the City of Milwaukee, Infrastructure Services Division's Construction Section.

Replace standard spec 621.2 with the following:

Use monuments provided by the Southeast Wisconsin Regional Planning Commission (SEWRPC) that consist of precast concrete with a brass cap. Notify the engineer at least one week prior to needing the monuments. The engineer will contact Mr. John Washburn of the SEWRPC, (262) 547-6721, to arrange for the delivery of the monuments to the project.

Replace standard spec 621.3.2.1(2) with the following:

Provide, at the discretion of the engineer, a 2-foot diameter by 3-foot deep hole (box out) backfilled with base aggregate dense at the location of the monument until after paving is complete at which time the monument can be reset and the surrounding pavement can be placed.

Place the monuments so that the top elevation of the monuments shall be approximately

1 inch below the finished pavement surface or flush with the ground surface in unpaved areas. Place the monuments so that the caps are oriented in the cardinal direction (read from due south). Place the monuments so that the actual point of reference is centered on the location marks on the cap.

Replace standard spec 621.5(2) with the following:

Payment for the Landmark Reference Monuments is full compensation for furnishing all excavating; placing the precast monument; placing and compacting backfill material; and for properly disposing of surplus materials.

24. Landscape Planting Surveillance and Care Cycles.

If the care specialist fails to perform any of the required care cycles as specified in standard spec 632.3.19.1, the department will assess daily damages in the amount of \$800 to cover the cost of performing the work with other forces. The department will assess these damages for each day the requirements of the care cycle remain incomplete, except when the engineer extends the required time period.

stp-632-005 (20070510)

25. Field Office Type D, Item 642.5401.

Add the following to standard spec.642.2.1 for Field Office Type D, Item 642.5401.

The field office shall be located within one half mile of the paving project limits.

26. Traffic Control.

Perform the work under this item according to the requirements of standard spec 643, as shown on the plans or as approved by the engineer, except as herein modified.

Provide the City of Milwaukee 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.

Mask out all traffic control signs and have flags removed when not in use.

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

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

Park or store equipment and materials only at work sites approved by the engineer.

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

Install appropriate advance and intermediate warning signs of standard design. Install the signs at locations indicated on the plan and at locations as directed by the engineer according to Part VI of the Manual of Uniform Traffic Control Devices. Sign shape, message and color must be according to Part VI of the Manual of Uniform Traffic Control Devices.

**27. Temporary Pedestrian Surface Asphalt, Item 644.1410.S;
Temporary Pedestrian Surface Plywood, Item 644.1420.S;
Temporary Pedestrian Surface Plate, Item 644.1430.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:

- Asphaltic surface conforming to standard spec 465.2.
- 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.
- 1/4 inch minimum steel plate or commercially available prefabricated plates with skid resistant surface coating conforming to Americans with Disabilities Act Accessibility Guidelines. If placed in the roadway, must be able to handle a vehicle weight of 88,000 lbs.

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:

- Asphalt surface a minimum of 2 inches thick compacted with compactors, tampers, or rollers.
- Framed plywood panels 4 feet wide with a skid resistant surface coating.
- Steel or prefabricated plate 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
644.1410.S	Temporary Pedestrian Surface Asphalt	SF
644.1420.S	Temporary Pedestrian Surface Plywood	SF
644.1430.S	Temporary Pedestrian Surface Plate	SF

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

stp-644-010 (20150630)

28. 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)

29. Construction Staking.

Supplement standard spec 650 with the following:

Stake each plan grade so that the form-setters and inspector can check the grade and alignment.

Item 650.4000 includes staking for the adjustment of TES manhole covers.

30. Construction Staking Electrical, Item 650.8500.

The work under this item shall be performed according to the requirements of standard spec 650, and as shown in the plans.

The street lighting poles and vaults are both stationed to the center with the conduit stationed at the ends. See drawing details for any additional information.

31. Roadway Lighting System.

General Requirements

Work under items related to the street lighting system shall conform to the National Electrical Code (NEC), 2011 Edition, or the latest edition adopted by the State of Wisconsin, Wisconsin Department of Commerce Chapter SPS 316 (Electrical) State of Wisconsin electrical code, and these special provisions and good electrical practices. The contractor shall not take advantage of lack of details in plans or these specifications where to do so would conflict with the applicable code and standards.

An electrician holding all appropriate licenses (including City of Milwaukee Licenses) shall supervise all work done referring to the street lighting system. All splices shall be made by an electrician. For the purpose of this contract, an electrician is a person who served a four year apprenticeship and passed state exams.

Contractor is to leave a 25' wire coils for each circuit at the vault near the street lighting enclosure at 104 East Ohio Avenue for Street Lighting field operation to perform the final termination to the enclosure. Contact Mr. Mark MacRae (414) 286-5928 office, (414) 708-0434 cell to coordinate the work.

The various items related to electrical construction shall read and be applied as a whole. Where the material, construction methods, or other specifications of one item could reasonably be applied to another item so as to construct a system of highest quality, the contractor shall do so.

If proposed location for a street lighting unit should happen to be in conflict with an underground utility and/or other obstacle, it may be necessary to move the unit 5 feet in either direction. Any change more than 5 feet must be approved by the engineer. The engineer must approve any changes in setback from curb face.

All purpose anti-seize (or equivalent) to be applied on all bolts and screws, especially the street lighting transformer base and hand hole panel on street light pole.

Oxide inhibitor OX-4 (or equivalent) to be applied on all wire connections and wire nuts.

After the city make preliminary acceptance of the street lighting system, it shall be monitored by the City of Milwaukee, Street Lighting Electrical Services during a 30 calendar day operational "burn in". Final acceptance of the lighting system will be based on its meeting standard operational criteria as stated in these specifications. The contractor shall be responsible for all necessary repairs and adjustments to the lighting system to meet standard operational criteria.

Plan changes must be approved by the City of Milwaukee. The primary contacts are Mr. Mark MacRae (414) 286-5928 office, (414) 708-0434 cell for field operations; or Mr. Eng-Kie Lee (414) 286-2174 for engineering.

Provide three sets of As-Built plan sets to the City of Milwaukee upon completion of the project. The plan sets are incidental to the project and no extra payment will be made by the department. No final acceptance of the roadway lighting system will be issued without the submittal of three sets of as-built plans, and payment equivalent to 10% of the roadway lighting work bid cost will be withheld until street lighting engineering department receives the plan sets.

32. General Requirements for Electrical Work.

Replace standard spec 651.3.3 (3) with the following:

(3) Request a signal inspection of the signal installation to the engineer after completing the Prerequisites for Underground Inspection or Prerequisites for Above Ground Inspection at least five working days prior to the time of the requested inspection. Notify the city's signal dispatch at (414) 286-3687 or signal shop manager Al Nichols at (414) 708-5148 three business days in advance to coordinate the inspection. The city's personnel will perform the inspection. In the event of deficiencies, request a re-inspection when the work is corrected. The engineer will not authorize continuation to aboveground work or turn-on until the contractor corrects all deficiencies.

33. Conduit Rigid Nonmetallic

Schedule 40 1 ½-Inch, Item 652.0225;

Schedule 40 2-Inch, Item 652.0225;

Schedule 40 2 ½-Inch, Item 652.0230;

Schedule 40 3-Inch, Item 652.0235;

Schedule 80 3-Inch, Item 652.0335.

This work consists of furnishing and installing PVC conduits according to standard spec 652, and as shown in the plan details. All work shall be according to standard spec 651, and as follows.

Add the following to standard spec 652.2.1:

(2) Contractor must submit a certificate of compliance certifying that the conduit rigid nonmetallic as furnished conform to the above requirements. Send a copy of the certificate of the conduit rigid nonmetallic to:

City of Milwaukee

Add the following to standard spec 652.3.1.1:

Locations of the conduits where they are required are identified in the plans. However, installation will require integration with existing field conditions. Appropriate adjustment on conduit locations may be made if the field conditions are such that the pipes cannot be installed at the specified locations. Any relocation of greater than five feet must be approved by the engineer.

Replace standard spec 652. 5 (2) with the following:

(2) Payment for Conduit Rigid Metallic, Conduit Rigid Nonmetallic, Conduit Reinforced Thermosetting Resin, and Conduit Special bid items is full compensation for providing the conduit, conduit bodies, and fittings; for providing all conduit hangers, clips, attachments, and fittings used to support conduit on structures; for pull wires or ropes; for expansion fittings and caps; for making necessary connections into existing pull box, manhole, junction box or communication vault; for excavating, bedding, and backfilling, including any sand, concrete, or other required materials; for disposing of surplus materials; and for making inspections.

Field design changes must be approved by the City of Milwaukee Electric Services Supervisor. The primary contacts are Mr. Dennis Miller, Street Lighting Supervisor (414) 286-5942 office, (414) 708-4251 mobile; or Mr. Mark MacRae, Street Lighting Supervisor (414) 708-0434-mobile; or Mr. Neal Karweik, Street Lighting Supervisor (414) 286-5943 office, (414) 708-4245 mobile.

34. Electrical Wiring.

Replace standard spec 655.3.10 with the following:

(1) Under the Traffic Signal EVP Detector Cable bid item, provide the EVP cable and mount furnished brackets. The exact location will be determined in the field to ensure that the installation does not create a sight obstruction.

(2) Ensure that the cable runs continuously without splicing from the pull box closest to the cabinet including the specified extra cable. Do not splice EVP cable from the detector assembly to the controller terminations. Provide 10 feet of extra cable at the mounting bracket and 2.5 feet extending out of the mounting bracket. Provide 10 feet of extra cable in each pull box plus an additional 20 feet at the nearest pull box to signal base where the EVP detector head is mounted.

(3) Mark each end of the lead as noted on the plan sheet. For a cabinet that is not operating the signal, the contractor will terminate the ends and install the discriminators and card rack in the cabinet.

(4) Notify the engineer upon completion of the installation at each intersection.

Replace standard spec 655.5 (12) with the following:

(12) Payment for Traffic Signal EVP Detector Cable is full compensation for providing emergency vehicle preemption detector cable and mounting the furnished brackets; and for making all necessary connections.

35. Remove Cable.

Replace standard spec 674.3.3 (3) with the following:

(3) Test cable continuity, identify, mark, and document existing cable connections before removal to be able to ensure proper reconnection and documentation after reconnection.

36. Install Conduit Into Existing Item, Item 652.0700.S.

A Description

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

B Materials

Use conduit rigid non-metallic schedule 40, 3-Inch, 2-Inch, and 1 conduit as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	EACH

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

37. Cable Type UF 2#12 AWG Grounded; Item 655.0305.

Add the following to standard spec 655.3.4:

(4) A separate riser cable will be required to be installed inside of light pole for each lighting fixture on the pole. Provide sufficient length in the pole shaft to allow easy removal and subsequent servicing through the pole hand-hole or transformer base. The riser cable shall be cut from copper 2#12 UF with ground cable. One wire shall be black, the other shall be white, and the ground can be either bare or green. All splicing is to be done inside either the hand hole or transformer base. The ground wires shall be spliced and grounded to the housing of the luminaire. The cable shall conform to NEC Article 340. The riser cable shall be continuous without splices. The electrical system in use utilizes a full system ground. The neutral is not to be grounded at any point.

38. Temporary Crosswalk, Item SPV.0045.01.

A Description

This special provision describes maintaining accessible crosswalks crossing the construction zone. Maintaining accessible crosswalks consists of maintaining a crosswalk on temporary surface material.

B Materials

Furnish a hard temporary surface material consisting of asphaltic surface temporary according to standard spec 465, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable.

C Construction

Install, maintain, move, and remove temporary surface material at temporary.

crosswalk locations as shown on the plans and as directed by the engineer. Level and compact the surface prior to placing temporary surface material. Provide a minimum clear width of 4 feet; be

located outside the immediate work area, as approved by the engineer; meeting the requirements of the current Americans with Disabilities Act Accessibility Guidelines (ADAAG). Reconstruct or relay temporary Crosswalk when disturbed by construction operations or utility trenches.

D Measurement

The department will measure Temporary Crosswalk by the day, acceptably completed. The measured quantity will equal the number of calendar days a crosswalk through the work area, as shown on the traffic control plans, is open to pedestrian traffic. A crosswalk is defined as an accessible crossing of a single leg of an intersection. A crossing of a street with an island within the route will be considered a single crosswalk. Each day that the crosswalk/sidewalk is out of service for more than 2 hours will result in one day being deducted from the quantity measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.01	Temporary Crosswalk	DAY

Payment is full compensation for furnishing, loading, hauling; for preparing the foundation; for furnishing, placing, maintaining, and removing temporary surface material; and for reconstructing or relaying the temporary surface material.

39. Inlet Covers Type 57, Item SPV.0060.01; Manhole Covers Type 58A, Item SPV.0060.02; Catch Basins Type 44A, Item SPV.0060.03; Catch Basins Type 44B, Item SPV.0060.04; Catch Basins Type 45A, Item SPV.0060.05; Inlet Covers Type 55, Item SPV.0060.06.

A Description

This special provision describes inlet covers, manhole covers, catch basins, and inlets.

Perform work under these items according to the requirements of standard spec 611 and the details as shown on the plans and as follows.

B Materials

Conform to standard spec 611.

C Construction

Conform to standard spec 611.

D Measurement

The department will measure Inlet Covers Type 57; Manhole Covers Type 58A; Catch Basins Type 44A; Catch Basins Type 44B; Catch Basins Type 45A; Inlet Covers Type 55 by each unit in place, furnished, installed, and 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	Inlet Covers Type 57	EACH
SPV.0060.02	Manhole Covers Type 58A	EACH
SPV.0060.03	Catch Basins Type 44A	EACH
SPV.0060.04	Catch Basins Type 44B	EACH
SPV.0060.05	Catch Basins Type 45A	EACH
SPV.0060.06	Inlet Covers Type 55	EACH

Payment is full compensation for furnishing and installing the manhole and inlet covers and inlet.

40. Inlet Screen Type M, Item SPV.0060.07; Inlet Screen Type R, Item SPV.0060.08.

A Description

This special provision describes furnishing, installing, and maintaining proper inlet screens as directed by the engineer, as shown on the drawings, and as hereinafter provided.

B Materials

Use woven filtration geotextile fabric with the following physical properties:

Test	Method	Value
Grab Tensile Strength (lbs)	ASTM D-4632	180 min.
Mullen Burst (lbs/in ²)	ASTM D-3786	200 min.
Equivalent Sieve Size	ASTM D-4751	US No. 30 max.
Water Flow Rate (gpm/ft ²)	ASTM D-4491	140 min.
Permittivity (Sec ⁻¹)	ASTM D-4491	1.9 min.
Permeability (cm/sec)	ASTM D-4491	0.14 min.

C Construction

C.1 Installation

The control of soil erosion requires flexibility to accommodate changing conditions as the construction project progresses. In general, install the erosion control device at locations as described on the plan.

At all inlet locations, install a Type M screen. If the inlet being protected has a side inlet box, seal the inlet box until inlet protection is no longer needed. These screens must be in place prior to the start of any work, including sawing.

On reconstruction projects, install Type M screens at all inlets and storm or combined sewer manholes. Install these screens, or some other device or method acceptable to the engineer, for preventing infiltration of solids into the sewer system, on the day that removal takes place. When it becomes necessary to remove a brick from a drainage structure in order to drain the subgrade filter screen, use approximately the size and shape of one-half of the Type R screen. Pay for the cost of providing this protection, as well as that required for storage piles of earth, gravel, stone, or other debris. Should the frame on the structure be removed or an opening occurs beneath the frame, install additional erosion control in the form of Type R as part of maintaining erosion control.

C.2 Maintenance

Continue cleaning and repair of all types of control devices until the engineer accepts the work. All such cleaning and repair, as well as the eventual removal of the devices, is the responsibility of the contractor.

Completely clean out manholes into which dirt or other debris has fallen before the end of each work day. Should the contractor not perform the cleaning as required, his operation may be shut down until the situation is corrected.

Protect all control measures protruding above the normal paved and/or ground surface where vehicular and/or pedestrian traffic is being maintained by barricades with flashing lights.

Inspect the inlet basket within 24 hours after each rainfall or daily during extended periods of precipitation. Make repairs immediately, as necessary, to prevent particles from reaching the sewerage system and/or causing the surface flooding.

Remove sediment deposits after each storm event or as often as the fabric becomes clogged. Failure to maintain clean, debris free inlet baskets may result in the contractor's operations being shut down.

D Measurement

The department will measure Inlet Screens Type M and Type R by each 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	Inlet Screen Type M	EACH
SPV.0060.08	Inlet Screen Type R	EACH

Payment is full compensation for the number of actual devices supplied, installed and properly maintained.

**41. Adjusting Water Service Boxes, Item SPV.0060.09;
Adjusting Water Manholes Frame and Lid, Item SPV.0060.10.**

A Description

This special provision describes adjusting, protecting, and maintaining accessibility, for the duration of the paving project, to all city water service boxes, water gate valve boxes and water manholes located within the project limits.

B Materials

All material for the adjustment of these facilities must meet City of Milwaukee specifications and will be provided by the City of Milwaukee by contacting Mr. Gil Taylor, Milwaukee Water Works, at (414) 708-9005 (or Mr. Dave Goldapp, Milwaukee Water Works at (414) 286-6301)). If there is contractor damage, the materials must still be provided by the City of Milwaukee, however, in this case, the contractor will be charged for all materials. Materials furnished by the City of Milwaukee and not used on the project shall be delivered back to the Department of Public Works Field Headquarters – Infrastructure, Operations, Water Works at 3850 North 35th Street. Materials being returned must be accompanied with a “surplus material” form completed by the engineer.

C Construction

All water service boxes, water gate valve boxes and water manhole frames & lids within the project limits shall be adjusted to proposed elevations by the contractor using materials meeting city specifications.

The city will locate, mark, inspect and repair all water service boxes, water gate valve boxes and water manhole frames & lids within the limits of the project prior to commencement of work on the project.

Throughout the duration of the project, the contractor must ensure that all water service boxes, water gate valve boxes, and water manholes are adequately located and identified by blue paint, and that at all times, all water appurtenances remain accessible for operation by city forces. Exercise caution working adjacent to water facilities to avoid damage and ensure accessibility.

Upon completion of the contract, the city will inspect all water facilities to ensure the water boxes and manholes are clean, properly aligned, and accessible. The contractor shall be responsible to make identified repairs and adjustments, and if any repairs or adjustments are made by the city, the cost will be charged to the contractor.

D Measurement

The department will measure Adjusting Water Service Boxes and Adjusting Water Manholes Frame and Lid 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.0060.09	Adjusting Water Service Boxes	EACH
SPV.0060.10	Adjusting Water Manholes Frame and Lid	EACH

Payment is full compensation for adjustments, all excavation, backfilling, disposal of surplus materials, water box or manhole clean-out, and restoration of the work site.

42. Water Main Protection, Item SPV.0060.11.

A Description

This special provision describes protecting existing water mains from newly constructed storm drainage facilities. No structures will be allowed over the existing water main or hydrant branch with less than 18 inches of vertical out-to-out clearance. Alternate drainage structures shall be used.

B Materials

Furnish and install materials as detailed on the construction plans.

C Construction

Construct drainage structure, located above and across an existing water main, by utilizing materials and joints that are water tight. For all catch basins and inlets that have less than 24" out-to-out of horizontal clearance the following protections shall be made:

- 1) The catch basins and inlets shall be altered to provide 18 inches of vertical clearance to the water mains or hydrant branches.
- 2) The catch basins and inlets shall be wrapped with 2 layers of 8 mil polyethylene around the base and extending 1ft vertically on all sides of the drainage structure.

D Measurement

The department will measure Water Main Protection as each individual water main protection, 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.0060.11	Water Main Protection	EACH

Payment is full compensation for protecting existing water mains; and for all excavation, backfilling, disposal of surplus materials, and restoration of the work site.

43. Poles Type-1, SPV.0060.12; Poles Type-3, SPV.0060.13; Poles Type-6, SPV.0060.14; Poles Type-31, SPV.0060.15.

A Description

The work under this item is for furnishing and installation of the following material as shown in plans and according to the following:

B Materials

1. **General:** The concrete poles to be furnished are shown in the plan and as follows: The dimensions given are not intended to be exact or precision measurements. Slight variations in dimensions and design that are immaterial to strength and appearance will be permitted, but all such variations shall be approved by the Street Lighting Division.

Pole Type-1

<u>Manufacturer</u>	<u>Catalog Number</u>
StressCrete	E-260-BPD-G-S35-AG
Traditional Concrete	City of Milwaukee A-21, drawing C-18-30
or approved equal	

Pole Type-3

<u>Manufacturer</u>	<u>Catalog Number</u>
StressCrete	E-370-BPD-G-S35-AG
Traditional Concrete	City of Milwaukee A-31, drawing E-18-31

or approved equal

Pole Type-6

<u>Manufacturer</u>	<u>Catalog Number</u>
StressCrete	KS15-G-E35-AG
Traditional Concrete	City of Milwaukee H-17, drawing E-18-27
or approved equal	

Pole Type-31

<u>Manufacturer</u>	<u>Catalog Number</u>
StressCrete	P-310-BPO-G-S35-AG-COM-C/W
Traditional Concrete	City of Milwaukee A-31 Bolt Down, drawing E-63-78
or approved equal	

2. **Description:** The pole shall be concrete, one-piece with dimensions, taper and cross section as shown in the drawings. The butt section shall be square in shape or as indicated in the drawings. The pole shall be manufactured as a prestressed and reinforced centrifugally spun pole as set forth in A.S.T.M. C1089-88 unless otherwise directed.

3. **Materials:**

- 3.1 **Concrete Aggregates:** Concrete aggregates shall meet all the requirements of A.S.T.M. C33. All aggregate employed in the manufacture of the concrete poles shall be white crystalline stone. The texture and color of the aggregates shall be approved by Street Lighting Division.
- The aggregates shall be of adequate strength in resisting crushing stresses and impervious to moisture; of such character as not to deteriorate or change as a result of continued exposure for years to the weather; and of such character that it crushes into masses approximately cubical in form, not in flakes. Aggregates shall all pass a three-eighth inch sieve, with a minimum size passing a #100 sieve.
- 3.2 **Cement:** The cement shall be fresh and free from lumps and shall conform to specifications of the American Society of Testing Materials, serial designation C-150, Type I or Type III.
- 3.3 **Water:** The water employed shall be free from acids, alkalis, oil, or organic matter.
- 3.4 **Materials Proportion:** The materials combined to produce the concrete shall be proportioned by weight.
- 3.5 **Steel:** The surface of all steel shall be free from dirt, oil, or grease. The steel used as either reinforcing or prestressing shall be adequately sized to meet the strength requirements of the finished poles, as herein specified. Longitudinal reinforcement, prestressing and spiral wrap shall comply with the latest version of the applicable ASTM standards. All prestressed wire shall be stressed to not less than 60% or more than 70% of its tensile strength.
- 3.6 **Test of Materials:** Any and all of the above materials shall be subject to test at any time before use, as may be directed, and samples for this purpose shall be furnished by the contractor upon request.
- 3.7 **Pole Strength:** All poles furnished shall withstand a 90 mph wind load plus 3S gust factor and a 400 lbs working load.
- 3.7.1 The pole design shall allow for a maximum load of not less than twice the working load.
- 3.7.2 The elastic limit at which any pole will actually fail to withstand any additional stress without permanent injury shall not be less than two and one-half (2-1/2) times the working load.

4. **Loading and Stability.** All the Type-1, Type-3, Type-6, and Type-31 poles furnished under this specification shall support two bracket mounted 36 inch, 40 pound arms each with an one hundred pound fixture of an EPA of 5. The Type-6 pole supplied under this specification shall support a tenon mount 100 pound fixture with an EPA of 5. All pole designs shall meet the latest revision of the AASHTO specifications for these poles as defined in their Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals handbook.

The manufacturer shall submit engineering calculations for lighting poles to show that maximum stress and deflections do not exceed specified performance requirements under full design loading, as well as other certified reports and data which indicate that the poles meet all load requirements, within 30 days of the bid award. Engineering calculations shall be prepared and sealed by an engineer licensed in the State of Wisconsin.

The entire horizontal and vertical "wind sail" area of the pole assembly subject to wind load including arm and luminaire shall be designed to withstand the AASHTO standard specifications, from above, for wind load requirements for a 90 MPH wind load with gust factor computed per section 3.8.5 and height and exposure factors from table

5. **Cable Raceway.** Each concrete pole shall have a hollow raceway at least 1 1/2 inches in diameter and continuous in a straight line, without appreciable offset, throughout its entire length.
- 5.1 The raceway shall be free from sharp projections or edges that might injure the insulated wire or cable sheath.
 - 5.2 Dimensions and locations for lateral opening in the raceway are shown on the drawings.
 - 5.3 All poles shall be furnished with hand hole. The hand hole shall be located on the face 90 degrees from the lateral opening in the butt of pole and shall have the minimum dimensions of 3-1/2" x 10-1/2"(Pole Type-1, Pole Type-2, Pole Type-3, Pole Type-31) and 2 5/8" X 8"(Pole Type-6). The cover shall be heat-treated cast aluminum, or other material as approved by the city, fastened to non-ferrous insert in the pole. The cover shall be secured to the pole using 1/4"-20 NC by 3/4" long 18-8 stainless button head Torx T27H tamper proof screws.
 - 5.4 There shall be a 3" inner diameter conduit built in between the top of the wiring aperture and the bottom of the hand hole as shown on the drawings.
 - 5.5 Two lateral openings into the raceway, of dimensions and locations as shown on the drawings, shall be provided in the butt of the pole.

6. **Concrete.**

- 6.1 Strength: The concrete strength shall meet the following requirements when tested according to A.S.T.M. C39.
 - a. Release of Prestressing Steel: Concrete cylinders made according to A.S.T.M. C31 shall attain a minimum strength of 3,500 p.s.i. at the time that prestressing is released.
 - b. Twenty-Eight Days: Concrete cylinders made according to A.S.T.M. C31 shall attain a minimum strength of 8,000 p.s.i. at twenty-eight days.
- 6.2 Admixture: All poles shall be manufactured with quality HSF (high silica fume) cement to reduce porosity in the concrete and increase compressive strength.
- 6.3 The city may sample and test the concrete at any time. Concrete samples made according to A.S.T.M. C31 shall be furnished by the contractor upon request of the city.
- 6.4 Process and Surface Finish: The finished concrete used in the manufacture of poles shall be a very dense product, free from undesirable air pockets or voids.
 - a. The concrete shall be compacted by the centrifugal process so that the surface is dense, with the coarse and fine aggregate evenly distributed. If requested to do so by the Purchasing Division - DOA, a sample shall be produced that is representative of the pole cross-section and at least three inches in length. The sample shall be submitted to the city for approval with respect to color, texture and finish. The concrete mix from which the sample was made shall be noted and submitted with the sample. A representative sample of all aggregates used also shall be submitted.

- b. The mixture of aggregates shall be essentially uniform over the entire exterior surface of concrete poles furnished.
 - c. Size of the duct shall be controlled so that the prestressed and/or reinforcing rods are not embedded in "slurry" (i.e., water-cement-sand mix that collects in the pole core during the spinning process).
 - d. Following the casting operation, the pole shall be cured with low-pressure steam for as long as needed to reach the necessary strength to allow handling and release of prestressing wires. Poles shall remain in storage for as long as needed for the concrete to reach the required compressive strength. Poles shall meet the design strength before shipment is allowed.
 - e. To assure that poles are not prematurely exposed to freeze-thaw action and deicer, adequate curing of the concrete for development of sufficient strength to resist scaling and for reduction of water content of the concrete shall be the responsibility of the manufacturer.
 - f. The finished surface must be polished so that the color and surface smoothness are uniform over the entire surface. The face surface shall be sealed with a siloxane penetrating sealer and a high molecular weight acrylic copolymer or other sealing compounds that will yield equivalent degree of protection from water, salt, and/or other chemical infiltration and does not discolor or fade.
 - g. The entire lot of concrete poles to be furnished under this specification shall be uniformly consistent in color and finish.
 - h. Treatment with diluted acid to obtain the desired finish is not permitted.
 - i. The finished surface of all poles shall be free from visible pits, fins, grooves, patches, or other surface markings not specifically enumerated herein.
 - j. The top of the pole shall be flat and perpendicular to the longitudinal axis of the pole so that the pole cap will have a positive seat.
 - k. Chloride accelerators shall not be used in the manufacturing process.
7. **Reinforcement.** The reinforcing cage, spiral reinforcement and prestressing steel shall be placed in position and maintained in place during the centrifugal manufacturing process. The longitudinal reinforcement, prestressing and spiral reinforcement shall continue throughout the entire length of the pole.
- 7.1 Cover: All steel shall be covered at all points by at least 1/2 inch of concrete, except where it may be necessary in the process of manufacture to have the rods and/or wire extend beyond the ends of the poles. In such case, the rods and/or wires shall be cut off afterward, even with the face of the molded product, unless otherwise noted on the drawings included herein.
- Where the above minimum coverage cannot be maintained next to cable entrance, wire outlet, etc., the reinforcing shall be protected with a suitable sleeve.
- Drawings of the reinforcing cage, spiral reinforcement and prestress steel that the manufacturer proposes to use in the manufacture of concrete poles, showing the size, shape and arrangement of reinforcing prestressing spiral reinforcement, ties, method of holding cage in place, etc. shall be submitted to Street Lighting Department.
8. **Waterproofing.** The top and bottom of the poles shall be properly coated with bitumastic waterproofing material.
- 8.1 Waterproofing material shall be of such quality and consistency that it will not crack or chip when subjected to extremely cold weather, and that it will not flow when subjected to extremely hot weather.
9. **Accessories.**
- 9.1 Pole cap: Each pole, when the design calls for a pole cap, shall have a removable aluminum pole cap, firmly and securely fastened in proper position by the contractor.

- 9.2 **Miscellaneous:** All pipes, bolts, nut wire, washers, pole caps, casting, fittings, and appurtenances of any sort are to be furnished by the contractor and made of approved rust-proof metal of such design, composition, and dimensions as may be approved by the city before the contractor begins manufacture.
10. **Marking.** Every pole shall bear an impressed marking, or other type of marking acceptable to the city, of the type of pole, contractor's insignia, and casting date (month and year). Type of pole and contractor's insignia shall have letters at least 1 inch tall. The casting date shall have digits not less than 1/2 inch tall. All markings shall be located in line with the cable entrance in the butt of the pole and shall be placed 15 inches to 20 inches above the ground line.
11. **Color Pigments.** Poles with a colored finish shall be furnished where specified. The coloring is to be done by mixing a pigment into the concrete before casting. The color of the pole shall be uniform throughout the body of the pole, shall not fade and shall be maintenance free. The type of coloring pigment shall be indicated with the bid and a sample which represents the finished colored pole shall be furnished for approval of the Street Lighting Dept. at 841 N. Broadway, Room 920, Milwaukee WI 53202.
12. **Inspection.**
- 12.1 General inspection for acceptance of the concrete poles shall be made upon delivery at job-site in Milwaukee. Decision as to the compliance with the specification and the quality of the poles shall be made by the city.
- 12.2 Tests and inspections for compliance of any of the specified characteristics of the poles also may be made upon the finished product after delivery, at any time before installation.
13. **Rejection.**
- 13.1 Poles failing to meet the requirements of this specification will be rejected by the city, and the contractor shall immediately remove the same, and furnish at their own expense, poles in conformity with this specification. The contractor shall pay all freight charges for all material furnished under this contract and all unloading and handling charges for any material that may be rejected by the city, including freight charges for return or disposal of such rejected material.
- 13.2 The cost of testing poles that are subsequently rejected for non-compliance with the specification shall be charged to the contractor.
14. **Pea Gravel.** The pea gravel must consist of particles from natural gravel deposits and shall be composed of clean, hard, tough, durable pebbles free from adherent coatings, soft, flat, or elongated particles, and organic or other deteriorative matter. The following limits apply to deteriorative substances in the pea gravel.

Chert	not over 4% by weight
Coal	not over ½% by weight
Clay lump and friable particles	not over ½% by weight
Soft fragments	not over 1% by weight
Any combination of the above	not over 4% by weight
Flat, elongated or laminated pcs.	Not over 10% by weight

(Flat and elongated particles are those having a length more than five (5) times the average thickness)

Grading requirements of the pea gravel are as follows:

Passing 3/8 inch sieve	95% to 100%
Passing No.4 sieve	25% to 50%
Passing No.8 sieve	0% to 5%

Each unit will require approximately 0.25 cubic yard of pea gravel.

C Construction

The direct bury pole is to be set as illustrated in the plans. The excavated holes are to be 14 or 16 inches in diameter and to a depth of 6 feet 6 inches depending on manufacturers' pole butt length. The holes can be bored, hydrovaced, or hand dug but all shall be cylindrical. If any part of the hole is within three feet of a buried utility, the holes must be hand dug or hydrovaced. No other method of setting poles is acceptable. The poles should be parallel and perpendicular to the horizon once set.

In some cases, the poles are to be installed in areas of concrete walk. Prior to concrete removal, the concrete should be saw cut to allow adequate room for pole and cable installation. Saw cutting for removal should be square or rectangular in shape. The contractor shall be responsible for disposing all debris from excavation and removed from site.

There is to be a minimum 6 inch bed of tamped pea gravel for the pole to set on. Then pea gravel is to be backfill around the pole and be tamped every 12 inches and filled to within 3 inches of finished grade.

In areas where concrete walk was removed, felt paper is to be installed around the base of pole and 3 inches of concrete installed. Concrete shall be the standard 5 bag mix, and the finished surface should match adjacent grades.

Grass areas that were disturbed during construction shall be filled with 3 inches of topsoil and sod to match the adjacent finished grade. Addresses are to be stenciled to the pole as shown on the plan.

Pole is to be wired as shown on the plans. Riser cables in pole shall be 50 feet in length and cut from copper 2#12 UF with ground cable. One wire shall be color coded black, the other shall be color coded white, and the ground can be either bare or green. All splicing is to be done inside the hand hole. The ground wires shall be spliced inside the hand hole and grounded to the housing of each fixture. The cable shall conform to NEC Article 340. The riser cable shall be continuous without splices. The electrical system in use utilizes a full system ground. The neutral is not to be grounded at any point.

D Measurement

The department will measure Poles (Type) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Poles Type-1	EACH
SPV.0060.13	Poles Type-3	EACH
SPV.0060.14	Poles Type-6	EACH
SPV.0060.15	Poles Type-31	EACH

Payment is full compensation for furnishing and installing the pole, riser cable or cables, pea gravel, and all connections.

44. Poles Type 12 Special, Item SPV.0060.16; Poles Type 13 Special, Item SPV.0060.17.

A Description

Work under this item consists of furnishing and installing monotube poles.

B Materials

Design support structures conforming to the minimum wall thickness the plan details show and to AASHTO design and fabrication standards for structural supports for highway signs, luminaries, and traffic signals. Use a design life of 50 years. Design to withstand a 3 second gust wind speed of 90 mph (145 km/h). Do not use the methods of Appendix C of those AASHTO standards.

Use Category III criteria for Type 9 and Type 10 Poles. Use Category II criteria for Type 12 and Type 13 Poles.

For structures requiring a fatigue analysis, use 45 mph (72 km/h) for truck-induced gusts.

After welding and before zinc coating, clean the exterior surface of each steel pole free of all loose rust and mill scale, dirt, oil or grease, and other foreign substances.

Apply a zinc coating conforming to the process specified for steel sign bridges in standard spec 641.2.8. Ensure that the zinc coating is tight, free from rough areas or slag, and presents a uniform appearance.

After completing manufacturing, clean the exterior surfaces of each pole free of all loose scale, dirt, oil or grease, and other foreign substances.

Provide reinforced hand holes measuring 4 inches by 6 inches (100 mm by 150 mm) as the plans show. Locate the lower hand hole 18 inches (450 mm) from the bottom of the pole base to the center of the door. For the hand hole, include an access cover mounted to the pole by two 1/4"-20 x 3/4" (m6 x 1.00 x 19 mm) hex-head stainless steel bolts.

Provide a grounding lug complete with mounting hardware, as required, inside the pole as the plans show. Provide access to the grounding lug from the hand hole. Weld the ground lug directly opposite the hand hole on the inside wall of the pole.

Equip the top of the shaft with a removable, ventilated cap held securely in place by at least 3 1/4" -20 x 3/4" (m6 x 1.00 x 19 mm) hex-head stainless steel set screws.

Ensure that all castings are clean, smooth, and with all details well defined and true to pattern.

Include cover plates for all luminaire attachment locations on the pole which will not have a luminaire attached to it under this project.

Attach base plates firmly to the pole shaft by welding or other approved method.

Include anchor bolts meeting AASHTO standards applicable to the pole type and loading. Provide a mounting template that ensures correct installation of anchor bolts in foundation.

C Construction

Install poles as specified in the plan details and using appropriate contractor-furnished anchor bolts and hardware. Use the appropriate anchor bolt template to ensure correct installation. Secure pole to anchor assembly and document tensioning procedures conforming to standard spec 641.3.1.2.

After completing erection using normal pole shaft raking techniques, ensure the centerline of the shaft appears vertical.

Install identification plaques as the plans show following the structure numbering on the signal plan.

Secure rodent screening covering the space between the base plate and the concrete base.

D Measurement

The department will measure Pole (Type) Special as each individual pole, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Poles Type 12 Special	EACH
SPV.0060.17	Poles Type 13 Special	EACH

Payment is full compensation for providing and installing poles including all hardware and fittings necessary to install the poles, and for installing identification plaques.

45. City Precast Controller Base 36"x21"x20", Item SPV.0060.18.

A Description

This special provision describes the installation of concrete bases furnished by the City of Milwaukee, for traffic signals as shown on the plans, and as follows:

B Materials

Pre-cast concrete traffic cabinet bases or signal bases will be furnished by the City of Milwaukee.

C Construction

Install concrete traffic cabinet bases or signal bases according to the plans. Plan changes must be approved by a City of Milwaukee Electric Services Supervisor or Traffic Engineer. The primary contacts are Mr. Al Nichols, Traffic Operations Supervisor (414) 286-5941 office, (414) 708-5148 mobile; or Mr. Scott Reinbacher, Traffic Control Engineer III (414) 286-3232.

D Measurement

The department will measure Install City Precast Controller Base as each individual item of material, 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.0060.18	City Precast Controller Base 36"x21"x20"	EACH

Payment is full compensation for installing all materials; for excavation, backfilling and disposal of surplus material.

46. Pull Boxes 13-Inch x 24-Inch x 24-Inch, Item SPV.0060.19.

A Description

This special provision describes furnishing and installing Fiberglass/Polymer Concrete Pull Boxes at the locations shown on the plans, according to standard spec 653, and as follows.

B Materials

Furnish fiberglass/polymer concrete pull boxes of rectangular composite enclosure with Tier 15 Rating (22,500 lbs), and nominal 13" wide x 24" long and 24" total depth, flared wall style FRP #B12132424A as by Hubbell Power Systems, Inc. , Highline CHA132424, or approved equal.

Cover shall be Tier 15 Rating, bolted cover with logo " Street Lighting". The pull boxes shall be listed and labeled by (UL) or other Nationally Recognized Testing Laboratory.

C Construction

Conform to standard spec 673.3 and City of Milwaukee standards. The pull boxes shall be installed on 12-inches of crushed stone, set flush with grade and backfilled. Pull Box shall be at minimum 4 feet away from any proposed or existing street light pole. Provisions for inserting conduit into any side or the bottom of the pull box shall be included.

D Measurement

The department will measure Pull Boxes 13-Inch x 24-Inch x 24-Inch as each individual pull box, 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.0060.19	Pull Boxes 13-Inch x 24-Inch x 24-Inch	EACH

Payment is full compensation for furnishing and installing all materials, including pull box, crushed aggregate, for excavation, backfill, for disposing of surplus material.

47. Pull Boxes 17-Inch x 30-Inch x 24-Inch, Item SPV.0060.20.

A Description

This special provision describes furnishing and installing Fiberglass/Polymer Concrete Pull Boxes at the locations shown on the plans, according to standard spec 653, and as follows.

B Materials

Furnish fiberglass/polymer concrete pull boxes of rectangular composite enclosure with Tier 15 Rating (22,500 lbs), and nominal 17" wide x 30" long and 24" total depth, flared wall style FRP #B12173024A as by Hubbell Power Systems, Inc. , Highline CHA173024, or approved equal. Cover shall be Tier 15 Rating,

bolted cover with logo “ Street Lighting”. The pull boxes shall be listed and labeled by (UL) or other Nationally Recognized Testing Laboratory.

C Construction

Conform to standard spec 673.3 and City of Milwaukee standards. The pull boxes shall be installed on 12-inches of crushed stone, set flush with grade and backfilled. Pull box shall be at minimum 4 feet away from any proposed or existing street light pole. Provisions for inserting conduit into any side or the bottom of the pull box shall be included.

D Measurement

The department will measure Pull Boxes 17-Inch x 30-Inch x 24-Inch as each individual pull box, 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.0060.20	Pull Boxes 17-Inch x 30-Inch x 24-Inch	EACH

Payment is full compensation for furnishing and installing all materials, including pull box, crushed aggregate, for excavation, backfill, for disposing of surplus material.

48. Pull Boxes 17-Inch x 30-Inch x 18-Inch, Item SPV.0060.21.

A Description

This special provision describes furnishing and installing Fiberglass/Polymer Concrete Pull Boxes according to the Traffic or Street Lighting Detail drawings for the Typical Rectangular Polymer Concrete Vault Installation. All work shall be according to standard spec 651, and as follows.

B Materials

B.1

Polymer Concrete shall be manufactured from one of the general types and grades defined in polymers in concrete structural applications state of the art report, ACI 548.6R-96 for structural uses. Thermoplastics will not be acceptable.

B.2

Enclosure walls shall be made from pattern cut structural fiberglass cloths to assure uniform, pre-measurable fiberglass content on all areas. Chopper gun fiberglass construction is not acceptable.

B.3

Binding polymers used in the manufacture of the polymer concrete and the fiber reinforced polyester shall be of the same formulation or from formulations with demonstrated chemical compatibility to assure complete chemical bonding of all components. Fiber reinforced polyester wall sections must be cast integrally into and chemically bonded within the upper polymer concrete casting.

B.4 Testing

Meet ANSI/SCTE 77 2010 (Tier 15 or greater), ASTM C 857, and WUC 3.6 structural requirements.

Compressive Modulus of Elasticity (fiberglass reinforced polymer): 5.6×10^6 PSI tested according to procedures outlined in ASTM D-695.

Comprehensive Strength (fiberglass reinforced polymer): 22,500 PSI tested according to ASTM D-695.

Flexural Strength (fiberglass reinforced polymer): 18,700 PSI tested according to ASTM D-790.

Tensile Strength (fiberglass reinforced polymer): 12,100 PSI tested according to procedures outlined in ASTM D-638.

Tensile Modulus of Elasticity (fiberglass reinforced polymer): 8.6×10^5 PSI tested according to procedures outlined in ASTM D-638.

Splitting Tensile Strength (polymer concrete): Tested according to procedures outlined in ASTM C-496.

Accelerated Service: Tested according to procedure E outlined in ASTM D-756.

Water Absorption: Tested according to ASTM D-570 outlined in sections 6.1 and 6.5.

Impact Resistance (fiberglass reinforced polymer concrete): 72 foot pounds according to ASTM D-2444 administered with a "C" tup.

Skid Resistance: 0.60 coefficient of friction according to ASTM C-1028.

Flammability Test: Tested according to ASTM D-635.

Ultraviolet Exposure: Tested according to ASTM test method G-53.

Chemical Resistance

1. Sodium Chloride 5%
2. Sodium Carbonate 0.1 N
3. Hydrochloric Acid 0.2 N
4. Acetic Acid 5%
5. Sulfuric Acid 0.1N
6. Sodium Sulfate 0.1 N
7. Sodium Hydroxide 0.1N
8. Kerosene Oil per ASTM D-543
9. Transformer Oil per ASTM D-543

B.5

The street lighting vaults and covers shall be gray in color and shall be flared wall as indicated on the plans. Covers shall be provided with two stainless steel bolts. Each cover shall have the words "STREET LIGHTING" cast into its surface along the longest dimension. The words shall be permanently recessed into the surface.

B.6

Contractor must submit a certificate of compliance certifying that the rectangular polymer concrete vault as furnished conform to the above structural performance requirements. Send a copy of the certificate of the rectangular polymer concrete vault to the engineer.

C Construction

Install rectangular flared wall vaults according to the traffic and/or street lighting detail drawings for the typical rectangular polymer concrete vault installation and in compliance to current City of Milwaukee street lighting typical detail installation standards. Provisions for inserting conduit into any side or the bottom of the vault shall be included.

D Measurement

The department will measure Pull Boxes 17-Inch x 30-Inch x 18-Inch as each individual rectangular polymer concrete vault, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Pull Boxes 17-Inch x 30-Inch x 18-Inch	EACH

Payment is full compensation for furnishing and installation of vaults, for furnishing all excavation, for backfilling and for disposal of excess material.

49. Water Tight Junction Box Splicing, Item SPV.0060.22.

A Description

This section describes materials, general requirements, personnel qualifications, construction methods, and testing requirements used to perform electrical work required.

All work shall be according to standard spec 651, and as follows.

B Materials

B.1

Furnish materials conforming to the WSEC, consisting of chapter comm. 16 of the WEC combined with the NEC.

B.2

All materials furnished under this contract for street lighting installation are subject to approval by the City of Milwaukee street lighting engineer. A prototype with the cable installed and spliced shall be submitted to the street lighting engineer for approval prior to field installation.

B.3

The contractor shall furnish a complete list of materials to be furnished and used for street lighting. Such list shall include names and addresses of manufactures, together with catalog numbers, certificates of compliance, specifications, and other product information requests by the engineer. The list shall be submitted within 10 calendar days of execution of contract. No material shall be incorporated into the lighting system prior to the written approval of the engineer. Approval does not change the intent of the specifications. The contractor shall not substitute or make changes in material without resubmitting for approval

C Construction

C.1 General Requirements

Work under items related to the street lighting system shall conform to the National Electrical Code (NEC), 2011 Edition, or the latest edition adopted by the State of Wisconsin, Wisconsin Department of Commerce Chapter Comm 16 (Electrical) State of Wisconsin electrical code, City of Milwaukee code, and these special provisions and good electrical practices. The contractor shall not take advantage of lack of details in plans or these specifications where to do so would conflict with the applicable code and standards.

C.2 Personnel Qualifications

An electrician holding all appropriate licenses (including City of Milwaukee Licenses) shall supervise all work done referring to the street lighting system. All splices shall be made by an electrician. For the purposes of this contract, an electrician is a person who served a four year apprenticeship and passed state exams.

C.3 Splices

The contractor shall perform splicing in a water proof junction box with materials listed on Street Lighting Standard Details 139. Cable runs shall be continuous between pole locations, and no splicing of cable outside the water tight junction box will be allowed. The water tight junction box shall reside in the vault and above the cable coils called for in Street Lighting Standard Details 139. The 3#12UF cable with the liquid tight conduit coming out from the splice box shall be brought to the pole hand hole where it will be spliced with the riser cable to the light fixture. Oxide inhibitor (OX4) or equivalent shall be applied on all connection points.

All cable direction shall be tagged in the junction box and vault.

Hand hole splices should be completed using a multi-tap connector. The connector should be rated for 600 volts, conductor range #1/0 through #14 AL-CU, have a insulating cover rated at 105 degrees Celsius, and meet or exceed ANSI 119.4 Class A specifications for reliability.

C.4 In Service Distribution Systems

The contractor shall not make splices to any underground connections or to any existing distribution system. As indicated on plans, underground splices and connections to existing underground circuitry will be completed by city electricians.

C.5 Testing

After the city makes preliminary acceptance of the street lighting system, it shall be monitored by the City of Milwaukee, Street Lighting Electrical Services during a 60 calendar day operational "burn in". Final acceptance of the lighting system will be based on its meeting standard operational criteria as stated in these specifications. The contractor shall be responsible for all necessary repairs and adjustments to the lighting system to meet standard operational criteria.

D Measurement

The department will measure Water Tight Junction Box Splicing by 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.0060.22	Water Tight Junction Box Splicing	EACH

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

50. Luminaire Arm Single Member 6-Ft City-Furnished, Item SPV.0060.23.

A Description

This special provision describes installing a city-furnished luminaire arm 6 ft.

B Materials

Luminaire arms furnished by the City of Milwaukee which are fabricated by the City of Milwaukee per City Spec. and drawing. The luminaire arm is 2 inch schedule 80 Aluminum pipe curved to city specs. Mounting plate is either cast aluminum ½" AA#713 or extruded 6063-T6 bar stock.

C Construction

Pick up luminaire arms 6 ft. from the City of Milwaukee yard located at 1540 W. Canal Street. Contact person is Jill Kramer at street lighting shop (414) 286-5953 to coordinate pick up.

Contractor to provide two ½" x 13 NC x 1" long stainless steel bolts necessary for mounting luminaire arm to pole. The mounting hardware is considered incidental materials to luminaire arm installation.

D Measurement

The department will measure Installing City-Furnished Luminaire Arms 6 Ft as a unit, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.23	Luminaire Arm Single Member 6-Ft City-Furnished	EACH

Payment is full compensation for installation of the City-furnished Luminaire Arms 6-Ft, and for all labor tools, equipment, transportation, and incidentals necessary to complete the work.

51. Remove Luminaire, Item SPV.0060.24.

A Description

This work shall consist of the removal of existing street lighting luminaire as shown in the plans, and as follows.

B (Vacant)

C Construction

C.1

The contractor is responsible to disconnect all cables and wiring that is mounted on or in the poles and carefully remove luminaire from street light pole.

C.2

Contractor is responsible to protect and deliver the removed street lighting equipment to 1540 West Canal Street, Milwaukee, Wisconsin. The contractor should make arrangements for the delivery of this material between the hours of 7:30 AM and 2:30 PM and call 24 hours in advance (Jill Kramer at (414) 286-5953). No delivery will be accepted after 2:30 PM.

D Measurement

The department will measure Remove Luminaire complete per pole as each individual, acceptably completed unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Remove Luminaire	EACH

Payment is full compensation for the removal and delivering of luminaire.

52. Luminaire Architectural LED 1, Item SPV.0060.25; Luminaire Architectural LED 2, Item SPV.0060.26; Luminaire Architectural LED 3, Item SPV.0060.27.

A Description

The work under this item is for installation of the following material as shown in plans and according to the following:

B Materials

Architectural Luminaire fixture conforms with Street Lighting Conduit Detail and Plans Sheet 10.

Technical Specifications: All features below shall be incorporated into the equipment and all items shall be furnished and installed into a complete unit ready for operation.

Type: The LED luminaires purchased under this contract will be of architectural style and shall conform with the luminaire appearance shown in the plan sheet "Street Lighting Conduit Details & Plan Sheet 10 of 44". The luminaires shall be designed so it can efficiently produce uniform illumination according to I.E.S. Type II, III or V light distribution according to the lighting plan.

Only luminaire that is readily available and of normal production item will be considered.

Housings: The entire housings shall be rugged, high quality, cast aluminum for maximum strength, durability and lasting beauty. All castings shall be free from pits, blowholes, or other irregularities. All edges are to be free from sharp burrs.

Upper Housing: The upper housing shall have an integral leveling pad or other suitable means for quick, easy and proper positioning of the luminaire.

Lower Housing: The lower housing or housings shall be hinged and easily opened for routine maintenance. All component parts shall be easily accessible with the lower housing opened.

Hinges: Hinges shall be so constructed and designed to accurately position the lower housings and assure a positive locking with the upper housing. The hinges shall be provided with a safety catch to prevent the accidental disengagement of the lower housing during servicing.

Finish: The entire unit, upper and lower housings, shall have a smooth finish that will maintain a fine appearance and will resist damage by weathering.

Color: The luminaire shall be of grey.

Label: There shall be only a NEMA label '1LED2' or '1LED5'(for LED-1), '2LED2' or '2LED3'(for LED-2), or '3LED2' or '3LED3'(for LED-3) clearly visible at 30 feet height attached to the door of the luminaire. No other label is needed on the fixture. In addition, the luminaire complete model number and manufacturing date shall be indicated inside the housing.

Optical Assembly: The fixture optical assembly shall be IP66 rated sealed and ANSI 3G rated vibration resistant for reliable lighting solution.

Optical System: The fixture shall be ordered with Type V, Type II, or Type III wide light distribution according to the lighting plans.

Voltage and Frequency: The fixture shall be designed for operation at 240 Volt, 60 Hertz without photoelectric cell receptacle. There shall be a built-in 7-pin NEMA twist locked recessed receptacle on the top of the luminaire. The 7-pin receptacle shall be equipped with shorting cap at time of installation.

Heat Management: Heat is managed through built-in external heat-sink on the fixture with natural air flow convection.

Mounting: The luminaire shall have an adjustable 2" slip fitter and integral pipe stop to permit entry of at least 5-1/2 inches of the bracket for secure mounting.

Hardware: All nuts, bolts, latches, etc. furnished with the luminaire shall be fabricated from stainless steel or other non-ferrous materials.

Lifespan: The luminaire shall meet or exceed L₇₀ of 60,000 hours under TM-21/LM-80@ 25°C. There shall be a manufacturing date code label inside the housing.

Driver: The luminaire shall be equipped with a 0-10V dimmable driver.

Surge Protector: The luminaire shall be equipped with a 20kV/20kA surge protector as per Institute of Electrical and Electronics Engineers (IEEE)/ American National Standards Institute (ANSI) C62.41.2 Scenerio, Category C.

Color Temperature: The luminaire shall be of 3,000 K color temperature, minimum 70 Color Rendering Index.

Lumens: The luminaires shall meet the specification shown on table below.

	Luminaire 70W (Type II medium or Type V light distribution)	Luminaire 105 W (Type II medium or Type III wide light distribution)	Luminaire 141W (Type II medium or Type III wide light distribution)
Maximum input power (Watt)	71	107	141
LED current (mA)	700	530	700
NEMA Label	1LED (for Type II med) 1LED5 (for Type V)	2LED2 (for Type II med) 2LED3(for Type III wide)	3LED2(for Type III med) 3LED5(for Type V)
Dimension	13.25" (W) * 4.75" (H) * 28.50"(D)	13.75" (W) * 5" (H) * 43.375" (D)	13.75" (W) * 5" (H) * 43.375" (D)
EPA	< 0.7	< 0.95	< 0.95
Weight	< 20 lbs	< 30lbs	< 30 lbs
BUG Rating	B2U0G1(1LED2) B3-U0-G2 (1LED5)	B2-U0-G2	B2-U0-G3(3LED3) B4-U0-G2 (3LED5)
Efficacy (lumen/Watt)	99	108	102

Min. Delivered Lumens	7,050	11,600	14,500

Label: As shown on table above, there shall be a NEMA label attached to the door (clearly visible at 30 feet height) indicating the wattage and light distribution of the luminaire. No other label shall be attached to the door.

For example: 1LED2 (for 70W LED fixture with Type II light distribution)

1LED5 (for 70W LED fixture with Type V light distribution)

2LED2 (for 105W LED fixture with Type II light distribution)

2LED3 (for 105W LED fixture with Type III light distribution)

3LED3 (for 141W LED fixture with Type III light distribution)

3LED5 (for 141W LED fixture with Type V light distribution)

There shall be a manufacturing date code label inside the luminaire housing.

Warranty: The manufacturer warrants that goods sold hereunder will be merchantable quality, will conform to applicable specifications, drawings designs, samples or descriptions, will be free from defects in material and workmanship and will be fit for the particular purpose intended by City of Milwaukee.

- i. This warranty shall remain in effect for 10 years from date of acceptance.
- ii. Under this provision, the manufacturer agrees to repair or replace within a reasonable time, any part, feature or product found to be defective during the warranty period at no cost to the city.

C Construction

Install lighting fixture on the six foot mounting bracket on the pole according to current City of Milwaukee standards. Provisions for inserting 2#12UF cable with ground between the fixture and cable connecting point at pole hand hole shall be included per City of Milwaukee standards.

D Measurement

The department will measure Luminaire Architectural LED (x) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Luminaire Architectural LED 1-	EACH
SPV.0060.26	Luminaire Architectural LED 2-	EACH
SPV.0060.27	Luminaire Architectural LED 3-	EACH

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

53. Luminaire Historic Milwaukee Harp LED 0, Item SPV.0060.28.

A Description

The work under this item is for furnishing and installation of the following material as shown in plans and according to the following.

B Materials

Holophane MH 20DIN 24 2 B 4 A-G-S.

TECHNICAL REQUIREMENTS: All features listed below shall be incorporated in the design of the Milwaukee Harp. All listed items shall be furnished and installed into a complete unit ready for installation

and operation and satisfying all electrical codes and industrial standards for outdoor luminaires. All parts shall be interchangeable between luminaires of different manufactures.

1. Housing: The Milwaukee Harp's housing and components shall be cast from ASTM #356T6 or 319 aluminum. All castings shall be free from pits, blowholes, or other irregularities. All surfaces shall be smooth with edges free of flashing burrs and imperfections. Manufacturer's identification or logo will not be permitted on the exterior of the housing.
2. Reflector: The reflector shall be aluminum not less than 0.046" in thickness, and of such uniform thickness and strength to protect against dents or deformations. The entire surface of the reflector shall have a minimum of an Alzak finish to provide a permanent and efficient reflecting surface, which may be easily cleaned and maintained. The reflector is to be mounted in such a manner to allow its removal without removal of mounting hardware. The reflector shall not extend beyond the frame of the luminaire in such a manner that it interferes with the proper operation of the refractor hinge assembly.
3. Refractor: The refractor is to be manufactured from thermal resistant borosilicate glass in a teardrop shape and size which is similar to original Milwaukee Harp refractors. It shall not extend beyond the frame of the luminaire in such a manner that it interferes with the proper operation of the refractor hinge assembly.
4. Lighting Distribution: The reflector/refractor combination shall be available in A.S.A.- IES Type IV distribution patterns. Light patterns shall be with the street side optics perpendicular to the harp frame. Manufacturer shall provide the city with a printed photometric report based on IES Testing Procedures showing footcandles, lumens, coefficient of utilization and isocandela from an independent test facility. Manufacturer shall also provide the city the photometric report in I.E.S. recommended standard file format for electronic transfer of photometric data (IES Publication LM-63-1986 or later). The following facilities are independent testing labs:

INDEPENDENT TESTING LABORATORIES, INC.
3386 Longhorn Rd.
Boulder, Colorado 80302
(303) 442-1255 Fax 303-449-5274

LIGHTING SERVICES/SCIENCES, INC.
7830 E. Evans Road
Scottsdale, Arizona 85260-3412
(602) 991-9260 Fax 602-998-9498

LUMINAIRE TESTING LABORATORY
905 Harrison Street
Allentown, Philadelphia 18103
(215) 770-1044 Fax 215-770-8912
5. Mounting: The Harp Luminaire shall accommodate a tenon with 1½" standard pipe thread with a hex locking nut for mounting to pole. The hex nut and washer are to be supplied for each unit as part of the bid price.
6. Gasketing: A durable gasket, made from non-deteriorating, sunlight resistant 1/8 inch thick rubber or neoprene, shall be installed where the lantern housing and the harp arms mate.
7. Ballast: There will be no ballast or ignitor in the harp fixture.
8. Surge Protector: Littlefuse LSP10277S-LSP10
The luminaire is to be wired with a surge protector Littlefuse LSP10277S-LSP10 in series on the hot and neutral between the input power and the mogul socket in order to protect the LED lamp. The surge protector shall be secured inside the harp fixture, easily accessible without causing any interference with the wiring.
9. Hardware: All clips, springs, bolts, etc. which are required to assemble the Harp luminaire shall be made of stainless steel, brass or aluminum. This requirement includes the hinge pin. There shall be no ferrous materials used.
10. Socket: The Mogul socket shall be constructed from rugged, high grade porcelain, rated 0at not less than 600 volts and be able to withstand the voltage stresses generated by the starting device. It shall have lamp grips to hold the lamp securely. The center contact shall be spring

loaded for positive electrical contact. The socket shall be located so the lamp's light center is at the focal point of the reflector/refractor combination.

11. Hinge and Latch Assembly: The hinge assembly shall not be an integral part of the main housing casting. It shall be a replaceable part attached to the main housing casting with hardware. The hinge assembly shall be consistent from unit to unit. The latch assembly must allow release without tools. All materials shall be aluminum.
12. Finish: The finish shall consist of one primer coat (2 to 3 mils) X-I-M Flash Bond 400 White or equal and two prime finish coats, applied electrostatically with the color specified on the order and as follows:
 - Black enamel: Gloss, oil, quick dry enamel, RAL 9005, Jet Black.
(2 coats applied electrostatically 2 to 2.5 mils dry film)
 - Accent panels: Gloss, oil, quick dry enamel, RAL 1000 Green Beige
(2 coats applied electrostatically 2 to 2.5 mils dry film).The accent panels may also be highlighted with tape colored to the RAL 1000, (Green Beige) specification. The tape must be able to withstand all environmental conditions that could be reasonably be encountered in the typical use of the Harp. The tape must be fade resistant.
13. Lamp: The luminaire shall be equipped with Keystone KT-LED45HID-EX39-830D LED lamp.

C Construction

The Milwaukee Harp fixture is set on the pipe tenon that is attached to the top of the pole and is secured to the pole using standard 1-1/2" stainless steel hex head nut. Perform all splices and connections for the operation of fixture.

Contractor is to contact Mark MacRae of Electrical Services at (414) 708-0434 to provide a returnable prototype for approval before any Luminaire Historic Milwaukee Harp LED 0 installation.

D Measurement

The department will measure Luminaire Historic Milwaukee Harp LED 0 by 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.0060.28	Luminaire Historic Milwaukee Harp LED 0	EACH

Payment is full compensation for furnishing and installing the Luminaire Historic Milwaukee Harp, surge protector, LED lamp and all connections needed for complete installation.

54. Luminaire Historic Milwaukee Lantern LED 2, Item SPV.0060.29.

A Description

The work under this item is for furnishing and installation of the following material as shown in plans and according to the following.

B Materials

Holophane ML-20DIN-24-B-4-G

1. Housing: The Lantern Housing shall be cast from ASTM #319 or #356T6 aluminum alloy. The casting shall be free from pits, blowholes, or other irregularities and shall have smooth surfaces. Manufacturer's Logo or identification shall not be visible on the exterior of the casting.
2. Reflector: The reflector shall be aluminum not less than 0.046" in thickness, and of such uniform thickness and strength to protect against dents or deformations. The entire surface of the reflector shall have a minimum of an Alzak finish to provide a permanent and efficient reflecting surface, which may be easily cleaned and maintained. The reflector is to be mounted in such a manner to

allow its removal without removal of mounting hardware. The reflector shall not extend beyond the frame of the luminaire in such a manner that it interferes with the proper operation of the refractor hinge assembly.

3. Refractor: The refractor is to be manufactured from borosilicate glass to provide the most efficient distribution of lighting. The shape and size of the refractor is to be similar to original Milwaukee Lantern refractors. It shall not extend beyond the frame of the luminaire in such a manner that it interferes with the proper operation of the refractor hinge assembly. Refractor gasket(s) are not to be installed.
4. Lighting Distribution: The reflector/refractor combination shall be A.S.A.- IES Type IV distribution pattern. Manufacturer shall provide the city with a printed photometric report based on IES Testing Procedures showing footcandles, lumens, coefficient of utilization and isocandela from an independent test facility. Manufacturer shall also provide the city, on diskette, the photometric report in I.E.S. recommended standard file format for electronic transfer of photometric data (IES Publication LM-63-1986 or later).

The following facilities are independent testing labs:

INDEPENDENT TESTING LABORATORIES, INC.
3386 Longhorn Rd.
Boulder, Colorado 80302
(303) 442-1255 Fax (303) 449-5274

LIGHTING SERVICES/SCIENCES, INC.
7830 East Evans Rd
Scottsdale, Arizona 8560-3412
(602) 991-9260 Fax (602) 998-9498

LUMINAIRE TESTING LABORATORY
905 Harrison St.
Allentown, PA 18103
(215) 770-1044 Fax (215) 770-8912

6. Mounting: The Large Milwaukee Lantern is to be pendant mounted using the ball coupling and canopy lock nut. The lock nut used to secure the lantern to the arm is to be provided with the lantern. It is to be made from stainless steel.
7. Ballast: There will be no ballast or ignitor in the lantern arm.
8. Surge Protector: Littlefuse LSP10277S-LSP10
The luminaire is to be wired with a surge protector Littlefuse LSP10277S-LSP10 in series on the hot and neutral between the input power and the mogul socket in the Milwaukee Lantern in order to protect the LED lamp. The surge protector shall be secured inside the Milwaukee Lantern Arm, easily accessible without causing any interference with the wiring.
9. Electrical Connections: All electrical connections shall be accessible by removing the reflector only. Electrical components are to be listed by Underwriters Laboratory or other nationally recognized testing organizations.
10. Leads: The power leads are to be routed through the top of the luminaire, (through the ball socket) and have a pigtail length of 12 inches minimum. They are to be #16 AWG stranded copper wire with insulation able to withstand the pulses from the starters and all environmental conditions that could be reasonably encountered in the typical use of the Lantern. They will consist of a black wire (line) white wire (neutral) and green wire (ground, connected to the casting). All paths of the leads are to be protected by insulating bushings or other suitable protection per standard or code.
11. Hardware: All clips, springs, bolts, etc. which are required to assemble the luminaire shall be made of stainless steel, brass or aluminum. This requirement includes the hinge pin. There shall be no ferrous materials used.

12. Socket: The Mogul socket shall be constructed from rugged, high grade porcelain, rated at not less than 600 volts and be able to withstand the voltage stresses generated by the starting device. It shall have lamp grips to hold the lamp securely. The center contact shall be spring loaded for positive electrical contact. The socket shall be located so the lamp's light center is at the focal point of the reflector/refractor combination.
13. Hinge And Latch Assembly: The hinge assembly shall not be an integral part of the main housing casting. It shall be a replaceable part attached to the main housing casting with hardware. The hinge assembly shall be consistent from unit to unit. The latch assembly must allow release without tools. All materials shall be aluminum.
14. Finish: The finish shall consist of one primer coat (2 to 3 mils) X-I-M Flash Bond 400 White or equal and two prime finish coats, applied electrostatically with the color specified on the order and as follows:

Black enamel: Gloss, oil, quick dry enamel, RAL 9005, Jet Black.
(2 coats applied electrostatically 2 to 2.5 mils dry film)

Accent panels: Gloss, oil, quick dry enamel, RAL 1000 Green Beige
(2 coats applied electrostatically 2 to 2.5 mils dry film).

The accent panels may also be highlighted with tape colored to the RAL 1000 (Green Beige) specification. The tape must be able to withstand all environmental conditions that could be reasonably be encountered in the typical use of the Harp. The tape must be fade resistant.

Note: Supplier to submit color sample and specification data for approval and supply one gallon of finish paint and one quart of accent panel paint per 25 luminaires.
15. Lamp: The luminaire shall be equipped with Keystone KT-LED80HID-EX39-830-D.

C Construction

The Lantern 1-1/4" tenon is to be threaded into the bracket and 1-1/4" stainless steel hex head nut installed on pipe tenon, lock nutting the fixture to the bracket. Perform all splices and connections needed for the operation of fixture.

Contractor is to contact Mark MacRae of Electrical Services at (414) 708-0434 to provide a returnable prototype for approval before any Luminaire Historic Milwaukee Lantern LED 3 installation.

D Measurement

The department will measure Luminaire Historic Milwaukee Lantern LED 2 by 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.0060.29	Luminaire Historic Milwaukee Lantern LED 2	EACH

Payment is full compensation for furnishing and installing the Luminaire Historic Milwaukee Lantern, surge protector, LED lamp and all connections needed for complete installation.

55. Luminaires Utility LED 0 Wallpack, Item SPV.0060.30.

A Description

The work under this item is for installing luminaires utility LED 0 wallpack as indicated in plans and Detail 141. All work shall be according to standard spec 651, and as follows.

B Materials

- 1) Holophane W4GLED10C30KT3M-MVOLT-DMGTP-BKSDP
- 2) Leotek ES1 -24H-MV-WW-FT-BK-350-PC(with shorting cap)

3) Or approved equal.

C Construction

Install wallpack on the bridge wall conform to City of Milwaukee lighting standard Detail 141. Provisions for inserting 2#12UF cable with ground between the fixture and connecting point in the stainless steel junction box and conduits shall be included (materials and labor).

D Measurement

The department will measure Luminaires Utility LED 0 Wallpack by 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.0060.30	Luminaires Utility LED 0 Wallpack	EACH

Payment is full compensation for furnishing labor, equipment, coordination and all materials and incidentals necessary to complete the work including all the materials listed on plan detail 141 (page 10 of 44).

56. Concrete Base Type 10 Special, Item SPV.0060.31.

A Description

This special provision describes constructing a concrete base type 10 special with a 36-inch diameter for monotube mast arm structures according to standard spec 654 with modifications as shown on the plans, and as hereinafter provided.

B Materials

Replace paragraph (4) of standard spec 654.2 as follows:

Contractor shall supply templates, anchor rods, nuts, and washers for installation as shown on the plans.

C Construction

Construction of this item shall conform with standard spec 654.

Contractor shall contact City of Milwaukee sewer engineering three working days prior to excavating any concrete bases. Please contact Mr. Bob Brooks at (414) 286-3241 or Ms. Nancy Alvarado at (414) 286-2013 to confirm lateral clearance with sewer facilities.

D Measurement

The department will measure Concrete Base Type 10 Special as each individual concrete base, 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.0060.31	Concrete Base Type 10 Special	EACH

Payment for the base bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor bolts, nuts, and washers; for bar steel reinforcement, if required; and for excavating, backfilling, and disposing of surplus materials.

57. Concrete Spread Footing, Item SPV.0060.32.

A Description

Construct and pour 84-Inch x 36-Inch x 18-Inch (depth) concrete base with 11.5-Inch bolt circle according to current City of Milwaukee Lighting Design Standards Detail 115, the standard spec, and as follows.

B Materials

B.1.

Use 18 inch minimum radius schedule 40 PVC electrical conduit conforming to the electrical conduit specified in standard spec 652.

B.2.

Furnish four 1-Inch diameter steel bolts, nuts, and washers conforming to ASTM F1554, grade 105. Hot-dip galvanized the entire length of the bolts, and the nuts and washers conforming to ASTM A153. Thread at least 12 inches of the anchor rod. Use zinc coated nuts manufactured with sufficient allowance to allow nuts to run freely on the threads. Refer to corresponding detail drawing in plan set for additional material info and sizes.

B.3.

Furnish ½" reinforced bar steel conforming to standard spec 505.2.

B.4.

Furnish grade A, A-FA, A-S, A-T, A-IS, or A-IP concrete conforming to standard spec 501.2 as modified in standard spec 716. Provide QMP for class III ancillary concrete as specified in standard spec 716

C Construction

C.1

Construct concrete base including necessary hardware, of specified type according to current City of Milwaukee design methods and standards.

C.2

Construct concrete bases as specified in standard spec 501, and provide the surface finished specified in standard spec 502.3.7.2 and plan details. Inspect the forming and applicable reinforcement for concrete bases before pouring the concrete. Cure exposed portions of concrete bases as specified in standard spec 415.3.12 except the contractor may use curing compound conforming to standard spec 501.2.9..

Wait at least 7 days before installing poles.

D Measurement

The department will measure Concrete Spread Footing by 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.0060.32	Concrete Spread Footing	EACH

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

58. Pipe Connection, Item SPV.0060.33.

A Description

This special provision describes tapping various sized storm sewer pipes into existing structures, including manholes or inlets, or other pipes at locations shown on the plans.

Perform the work according to the applicable provisions of standard spec 608 and standard spec 611, and as hereinafter provided.

B Materials

Conform to standard spec 608 and standard spec 611.

C Construction

Tap into the existing structure to allow the pipe to be flush with the interior wall of the existing pipe or structure.

All necessary temporary shoring needed for construction of this item will not be paid for separately but will be included in this item of work.

D Measurement

The department will measure Pipe Connection as each individual pipe connection, 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.0060.33	Pipe Connection	Each

Payment is full compensation for providing all materials, including saw cuts, for excavating; for removing concrete; for providing and removing sheeting and shoring, making connections to new or existing facilities, and for cleaning out.

59. Utility Line Opening (ULO), Item SPV.0060.34.

A Description

This work consists of excavating to uncover utilities for the purpose of determining elevation and potential conflicts as shown on the plans or as directed by the engineer.

B (Vacant)

C Construction

Perform the excavation in such a manner that the utility in question is not damaged.

Perform the utility line openings as soon as possible and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Provide utility line openings with a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Notify the utility engineers or their agents of this work a minimum of 3 working days prior to the work so they may be present when the work is completed. Do not perform utility line openings without the approval of the engineer.

D Measurement

The department will measure Utility Line Opening (ULO) as each individual ULO, 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.0060.34	Utility Line Opening (ULO)	EACH

Payment is full compensation for the excavation required to expose the utility line, backfilling with existing material removed from the excavation, compacting the backfill material, restoring the site, and for cleanup.

Existing pavement removal necessary to facilitate utility line openings will be considered part of or paid for under Utility Line Openings. Replacement pavement, concrete curb, gutter, and sidewalk items will be considered separate from Utility Line Openings and will be measured and paid for separately.

60. Salvage Microwave Detector Assembly, Item SPV.0060.35.

A Description

This special provision describes salvaging an existing Microwave Detector Assembly according to the pertinent provisions of standard spec 655, 656, 657, and 675, the Wisconsin Electric Code, as shown on the plans, and as follows.

B Materials

The materials included in Microwave Detector Assembly are:

1. Microwave Detector(s).

2. Mounting Hardware.

C Construction

Remove Microwave Detector Assembly at the locations show in the plans or directed by engineer. Store the Microwave Detector Assemblies in a safe location until reinstalled on the project. All materials are to be maintained in a condition to be reutilized. Replace any items damaged during construction operations or storage at no cost to the department.

Electrical work under this item shall be completed by a journeyman electrician or under supervision of journeyman electrician. Legal status or standing as journeyman electrician shall be certified or otherwise documented to the engineer before any electrical work may begin.

D Measurement

The department will measure Salvage Microwave Detector Assembly by each individual unit, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.35	Salvage Microwave Detector Assembly	EACH

Payment is full compensation for removal and storage of Microwave Detector Assembly; disconnecting all wiring connections; removing all conduit connections; for any necessary restoration, and for storage.

61. Install Salvaged Microwave Detector Assembly, Item SPV.0060.36.

A Description

This special provision describes installing a salvaged Microwave Detector Assembly according to the pertinent provisions of standard spec 655, 656, 657, and 675, the Wisconsin Electric Code, as shown on the plans, and as follows.

B Materials

1. Microwave Detctor(s).
2. Mounting Hardware.

C Construction

Transport the salvaged microwave Detector Assembly from its stored location to the project site.

Electrical work under this item shall be completed by a journeyman electrician or under supervision of journeyman electrician. Legal status or standing as journeyman electrician shall be certified or otherwise documented to the engineer before any electrical work may begin.

D Measurement

The department will measure Install Salvage Microwave Detector Assembly by each individual unit, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.36	Install Salvaged Microwave Detector Assembly	EACH

Payment is full compensation for transporting and installing the Microwave Detector Assembly; making all wiring connections; conduit connections; and any necessary restoration.

62. Sawing Concrete-Encased Duct Package, Item SPV.0060.37.

A Description

The work under this provision consists of full depth sawing of cement encased multiple duct conduit below grade; preparing sawed conduit ends to accept adaptor couplings needed to allow transition of new PVC conduit from existing clay, fiber or PVC conduit.

B (Vacant)

C Construction

1. Equipment

Use ring saw or concrete cutting chainsaw for all full-depth cuts. Use diamond blades. The contractor may use a high speed 16" construction saw on duct systems with less than 4-ducts when approved by the engineer.

2. Sawing Encasement

Carefully expose the outside of the existing cement encasement. The contractor is to verify that the conduit lines are free of all cabling. Saw a full depth transverse cut through the encasement. Saw straight cuts with the surface remaining vertical over its full depth. Hand chip concrete away from sawed conduit duct ends to allow transition fittings to be placed over the ends. The exposed conduit shall be protected from damage. Any damaged conduit ends shall be the responsibility of the contractor and will require a re-saw at the contractor's expense.

D Measurement

The department will measure Sawing Concrete-Encased Duct Package by each unit, acceptably completed. Up to 6 conduits per cement encasement will be considered a single unit.

Encasements in excess of 6 conduits will constitute multiple units.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.37	Sawing Concrete-Encased Duct Package	EACH

Payment is full compensation for sawing concrete encased duct packages full depth.

- 63. Catmint Blue Wonder, Item SPV.0060.38;
Cloud Nine Switchgrass, Item SPV.0060.39;
Day Lilies, Item SPV.0060.40;
Dwarf Korean Lilac, Item SPV.0060.41;
Signature Bed, Item SPV.0060.42;
Golden American Elderberry, Item SPV.0060.43;
Hosta Sum & Substance, Item SPV.0060.44;
Hydrangea "Annabelle", Item SPV.0060.45;
White Cone Flower, Item SPV.0060.46;
Karl Forester Grass, Item SPV.0060.47;
Rose "Knockout Red", Item SPV.0060.48.**

A Description

This special provision describes furnishing and planting plants of the species, varieties, and sizes specified; and includes furnishing all necessary materials, excavating plant holes, salvaging topsoil, transplanting, backfilling, mulching, watering, heeling in, disposal of surplus and waste materials, and necessary care & required replacements pending acceptance, at the locations shown on the plans according to standard spec 632, and as hereinafter provided.

B Materials

Furnish material that is according to the pertinent requirements of standard spec 632.

C Construction

Construction shall conform to the requirements of standard spec 632.3.

D Measurement

The department will measure by the number of each individual perennial, shrub and grass item acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.38	Catmint Blue Wonder	EACH
SPV.0060.39	Cloud Nine Switchgrass	EACH
SPV.0060.40	Day Lilies	EACH
SPV.0060.41	Dwarf Korean Lilac	EACH
SPV.0060.42	Signature Bed	EACH
SPV.0060.43	Golden American Elderberry	EACH
SPV.0060.44	Hosta Sum & Substance	EACH
SPV.0060.45	Hydrangea "Annabelle"	EACH
SPV.0060.46	White Cone Flower	EACH
SPV.0060.47	Karl Forester Grass	EACH
SPV.0060.48	Rose "Knockout Red"	EACH

Payment is full compensation for providing, transporting, handling, storing, placing, and replacing plant materials; for excavating all plant holes, salvaging topsoil, mixing and backfilling; for providing and applying required mulch; and for disposing of all excess and waste materials.

64. Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch, Item SPV.0060.49.

A Description

The metal housing is a cabinet housing that is 4" x 4" x 36" and is for secondary cable slices. All work shall be in accordance with standard spec 651.

B Materials

The housing shall be constructed of 14 Gauge G90 Galvanized steel. The housing shall be painted inside and out with a baked powder coat of RAL #6021 Pale Green enamel. The housing shall be in accordance with Drawing Number B-04-07 of the typical details in the plan set.

C Construction

Metal housing is to be located 180 degrees from hand hole on pole. The metal housing is to be attached by using 3/4 inch by 0.20 inch stainless steel banding. A mini raceway between the pole and housing needs to be established. This is accomplished by drilling through the backside of the metal housing and into the aluminum pole. A 1-1/4" chase nipple to be inserted through both the metal housing and pole. The chase nipple is to be secured with a 1-1/4" lock nut attached from inside of pole. After all splices have been completed, and have been approved the housing shall be closed and sealed with a torque bolt fastener lock. All splices in metal housings are to be made in approved manner as illustrated on the plans.

D Measurement

The department will measure Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch 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.0060.49	Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch	EACH

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

65. Adjusting CUC Manhole Covers, Item SPV.0060.50.

A Description

This special provision describes adjusting the existing chimney of the block, precast, or brick round manholes; furnishing, installing and removing protection of the cables in the manhole during adjustment operations. Perform work according to the standard specifications, as shown on the plans, and as hereinafter specified.

B Materials

Furnish and install materials that conform to the requirements of standard spec 519. Salvage and reinstall existing covers on the manholes. The city will supply covers designated for replacement. Contractor shall contact Ricardo Lopez, Inventory Clerk at (414) 286-6123 prior to obtaining the frames and lids from the DPW Field Headquarters at 3850 N. 35th St. Contractor must have the "Castings Requisitions Form" which will be supplied by the city at the Preconstruction Meeting to obtain the covers.

C Construction

Report any pre-existing problems to Ms. Karen Rogney of City Underground Conduits Section at (414) 286-3243 three working days in advance of any construction on manholes.

Before removing the pavement around the manhole, the contractor shall place a ¾-inch plywood cover or equal over existing active Street Lighting, Traffic Control, Communication or private vendor electrical cables. This cover shall be properly supported to/at the manhole floor.

Break out and remove pavement around manhole. Remove existing covers and store and secure them properly. Any damaged, lost, or stolen covers shall be the responsibility of the contractor and shall be replaced at contractor's expense.

Remove existing chimney to surface of concrete roof slab. If manhole does not have an existing concrete roof slab, remove sufficient chimney as to provide adequate corbel to fit new cast iron frame and cover.

Adjust manhole cover to proposed grade using bricks or concrete rings as necessary. Completely underpin entire flange area of manhole frame with mortar, bricks and/or concrete rings. Remove wedges/shims. Fill voids with grout. Do not back plaster inside walls.

After completion of paving, remove the temporary ¾-inch plywood cover or equal which is over the existing electrical cables in the manhole as mentioned above.

Notify Ms. Rogney three working days in advance of completion of each manhole adjustment, for inspection and acceptance of work performed. The contractor will receive no payment until the above work is approved by City Underground Conduits.

D Measurement

The department will measure Adjusting CUC Manhole Covers by each, 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.0060.50	Adjusting CUC Manhole Covers	EACH

Payment is full compensation for furnishing all required materials, exclusive of frames, grates, or lids available and designated for adjusting; for removing, reinstalling and adjusting the covers. Covers to be adjusted and which are rendered unfit for use by the contractor through the contractor's operations shall be replaced by the contractor in kind at the contractor's own cost and expense.

66. 4' Diameter Manhole Type CUC, Item SPV.0060.51.

A Description

The work under this special provision consists of a 4'-0" round precast concrete manhole for the City of Milwaukee Underground Conduit Section at locations shown in the plans, according to standard spec 301, 611 and 501, and as hereinafter provided.

B Materials

Furnish and install a 4' diameter precast concrete manhole. Concrete and steel reinforcement shall conform to ASTM specification: C478 (latest edition), except that the single cage circumferential reinforcement in all vertical walls shall consist of lines of #6 steel wire spaced 3" horizontally and lines of #10 steel wire spaced 8" vertically located in the center of the wall.

Cast two lifting inserts for 1-1/2" diameter lifting eyes in the wall of the base and all other riser sections except the top cap section.

Cast up to four 7/8" diameter galvanized steel 1-11/16" pulling-in eyes in the wall of the base section directly across from each duct entrance.

Cast four 5/8" diameter plastic threaded cable rack bolt inserts in the wall of the riser section.

Supply and lay a continuous circumferential Butyl Rubber gasket on the wall joint of the base and riser section when manhole is being assembled at job site.

The number of pulling-in eyes and/or cable rack bolt inserts may vary. Additionally, the size, location, shape and number of duct entrances and/or knock-out area may vary. Unit price of manhole shall not vary for number of openings, pulling-in eyes and/or rack bolt inserts.

The city will supply a frame and lid for the manhole. Contractor shall contact Mr. Ricardo Lopez, Inventory Clerk at (414) 286-6123 prior to obtaining the frame and lid from the DPW Headquarters at 3850 N. 35th St. Contractor must have the "Casting Requisition Form" which will be supplied by the city at the Preconstruction Meeting.

For any questions on materials, contact Ms. Karen Rogney at (414) 286-3243.

C Construction

4' Diameter Manholes Type CUC shall be installed according to standard spec 611.3.

Install the top of the roof deck at a standard depth of 18" below finished grade where possible. A minimum depth of 12" from finished grade to the top of the roof deck must be maintained.

D Measurement

The department will measure 4' Diameter Manhole Type CUC by each individual manhole, 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.0060.51	4' Diameter Manhole Type CUC	EACH

Payment is full compensation for all excavation work and disposal of material; for furnishing and installing all materials, including bricks, and coarse aggregate, bedding and backfilling, concrete forms, concrete placement, appurtenances, and backfilling.

67. 4' Diameter "Doghouse" Manhole Type CUC, Item SPV.0060.52.

A Description

The work under this item consists of a 4'-0" diameter precast concrete "doghouse" manhole for the City of Milwaukee Underground Conduit Section at locations shown in the plans, according to standard spec 301, 611 and 501, and as hereinafter provided. This work includes providing and placing PVC pipe and associated fittings, cement encasement, and other appurtenances to extend existing conduit as required to provide a complete and fully functional communications manhole unit.

B Materials

B.1 Manhole

Furnish and install a 4' diameter precast concrete "doghouse" manhole. Concrete and steel reinforcement shall conform to ASTM specification: C478 (latest edition), except that the single cages of circumferential reinforcement in all vertical walls shall consist of lines of #6 steel wire spaced 3" horizontally and lines of

#10 steel wire spaced 8" vertically both located in the center of the wall, and #6 hoop rebar centered in the wall 3" above the window knock-outs.

Two lifting inserts for 1-1/2" diameter lifting eyes shall be cast in the wall of the base and all other riser sections except the top cap section.

Up to four 7/8" diameter galvanized steel 1-11/16" pulling-in eyes shall be cast in the wall of the base section directly across from each duct entrance.

Four 5/8" diameter plastic threaded cable rack bolt inserts shall be cast in the wall of the riser section.

A continuous circumferential Butyl Rubber gasket shall be supplied, to be laid on the wall joint of the base and riser section when manhole is being assembled at job site.

The number of pulling-in eyes and/or cable rack bolt inserts may vary. Additionally, the size, location, shape and number of duct entrances and/or knock-out area may vary. Unit price of manhole shall not vary for number of openings, pulling-in eyes and/or rack bolt inserts.

Field verify window depth and locations prior to ordering manhole.

The city will supply a frame and lid for the manhole. Contractor shall contact Mr. Ricardo Lopez, Inventory Clerk at (414) 286-6123 prior to obtaining the frame and lid from the DPW Headquarters at 3850 N. 35th St. Contractor must have the "Casting Requisition Form" which will be supplied by the city.

B.2 Conduit

Furnish and install DB_60 polyvinyl chloride (PVC) conduit. Conduit will be accepted on the basis of a Manufacturer's Certificate of Compliance and WISDOT field inspection upon delivery to a project.

Manufacturers of PVC Conduit DB-60 shall request evaluation and approval of their products by filing with the department's Research Supervisor, Bureau of Highway Construction, a certificate setting forth the name or brand of pipe to be furnished, the specified type, category, grade and PVC plastic cell classifications. The certificate shall have attached a certified test report from an approved independent testing laboratory showing specific results of tests performed on each diameter conduit to be furnished conforming to all requirements of these specifications. The conduit tested shall be randomly selected for test by the independent testing laboratory as being representative of that manufacturer's conduit. The manufacturer of the conduit shall also submit with the certification, a guarantee that all conduit furnished be of the same quality and composition and conform to the specification requirements as tested by the independent laboratory, as long as the manufacturer continues to furnish materials for WISDOT projects.

PVC conduit and fittings shall conform to the requirements of Standard Specifications for Smooth-Wall Poly (Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation, ASTM Designation: F512 (latest edition).

B. 3 Concrete

The type of concrete mix to be used to encase the ducts will be:

Type I Cement	280 lbs
Fly Ash	100 lbs
Sharp Torpedo Sand	3100 lbs
Water	35 gals
Chryso Air 260 or approved equal	2.0 ozs
Chryso Plast 209 or approved equal	7.0 ozs
Air	5%

Mix the materials to provide an approximate 3-inch slump

B.4 Slurry Backfill

Aggregate slurry backfill consists of No. 1 concrete aggregate Class 'C' concrete mix with the cement deleted.

Fly Ash (Class C)	75 lbs.
Concrete Sand (Damp)	1830 lbs.

No. 1 Concrete Aggregate 1830 lbs.

Mix with water to inundate the aggregate sufficiently to provide an approximate 3-inch slump. Deposit the mix directly from a concrete transit mix truck.

For any questions on materials, contact Ms. Karen Roney at (414) 286-3243.

C Construction

C.1 Manhole

Install the bottom section of the manhole while avoiding damage to the live active cables. The excavation may need to be widened to slide the bottom under the existing cables. After the bottom section of the manhole has been set, the existing cables need to be placed within the window openings, splice cases and/or coils placed back into the manhole.

Exercise extreme care in the handling of working cables within the excavation. When cables need to be moved, particularly lead sheathed cables, move cables slowly and gradually. Avoid sharp kinks that may damage the inner core of the cables and the sheath.

Complete the "doghouse" manhole installation without any damage or service disruption to the existing cables.

Install 4' Diameter "Doghouse" Manholes Type CUC Installed over Conduit according to standard spec 611.3.

Install the top of the roof deck at a standard depth of 18" below finished grade where possible. A minimum depth of 12" from finished grade to the top of the roof deck must be maintained.

C.2 Placing Duct

All ducts shall be inspected before placing to see that the bores are clean and free from mud, sand, etc. Only ducts with a smooth bore, free from burrs, rough projections etc. shall be used. Where burrs or other rough areas likely to damage cable are found in the duct, they shall be smoothed off by rasping or scraping.

All existing ducts shall be extended into the new manhole structure unless otherwise noted on the plan. Split PVC duct should be used on ducts containing cables. The split duct shall be installed per manufactures recommendations using tape and reinforced with plastic straps to produce a rigid, stable unit.

All ducts shall terminate on the inside wall of the manhole. A standard end bell fitting shall be installed on all duct access points into the manhole.

Where trace wires are present, reconnect and extend trace with #10 copper wire extended two feet past the inside wall of the manhole.

C.3 Concreting

Begin concreting after conduit has been laid and the trench and duct have been inspected. The minimum concrete encasement of the ducts is 3 inches on the top, 2 inches on the sides, and 3 inches on the bottom. After placing, the concrete shall be puddled with a splicing bar or similar tool so that complete duct encasement is accomplished. Wood braces used to keep the conduit from floating shall be removed before the concrete sets completely and the resultant encasement voids filled with concrete.

Allow the concrete encasement to set for a minimum of 6 hours before backfilling is commenced.

C.4 Slurry Backfill

Commence backfilling immediately after the duct has been inspected, approved and has set to withstand the load.

An aggregate slurry as specified shall be used to backfill all concrete encased conduit. The trench shall be slurry backfilled to the proposed or existing subgrade. The mix shall be deposited in the trench directly from a concrete transit mix truck.

D Measurement

The department will measure 4' Diameter "Doghouse" Manholes Type CUC by each individual manhole, 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.0060.52	4' Diameter "Doghouse" Manholes Type CUC	EACH

Payment is full compensation for all excavation work and disposal of material; for furnishing and installing all materials, including precast manhole, conduit, conduit fittings, end bells, bricks, and coarse aggregate, bedding, concrete forms, concrete placement, appurtenances, and backfilling.

68. 4' Diameter "Doghouse" Manhole Type CUC, Installed over Conduit, Item SPV.0060.53.

A Description

The work under this item consists of a 6'-0" diameter precast concrete "doghouse" manhole for the City of Milwaukee Underground Conduit Section at locations shown in the plans, according to standard spec 301, 611 and 501, and as hereinafter provided. This work includes providing and placing PVC pipe and associated fittings, cement encasement, and other appurtenances to extend existing conduit as required to provide a complete and fully functional communications manhole unit.

B Materials

B.1 Manhole

Furnish and install a 4' diameter precast concrete "doghouse" manhole. Concrete and steel reinforcement shall conform to ASTM specification: C478 (latest edition), except that the single cage of circumferential reinforcement in all vertical walls shall consist of lines of #6 steel wire spaced 3" horizontally and lines of #10 steel wire spaced 8" vertically both located in the center of the wall, and #6 hoop rebar centered in the wall 3" above the window knock-outs.

Two lifting inserts for 1-1/2" diameter lifting eyes shall be cast in the wall of the base and all other riser sections except the top cap section.

Up to four 7/8" diameter galvanized steel 1-11/16" pulling-in eyes shall be cast in the wall of the base section directly across from each duct entrance.

Four 5/8" diameter plastic threaded cable rack bolt inserts shall be cast in the wall of the riser section.

A continuous circumferential Butyl Rubber gasket shall be supplied, to be laid on the wall joint of the base and riser section when manhole is being assembled at job site.

The number of pulling-in eyes and/or cable rack bolt inserts may vary. Additionally, the size, location, shape and number of duct entrances and/or knock-out area may vary. Unit price of manhole shall not vary for number of openings, pulling-in eyes and/or rack bolt inserts.

Field verify window depth and locations prior to ordering manhole.

The city will supply a frame and lid for the manhole. Contractor shall contact Mr. Ricardo Lopez, Inventory Clerk at (414) 286-6123 prior to obtaining the frame and lid from the DPW Headquarters at 3850 N. 35th St. Contractor must have the "Casting Requisition Form" which will be supplied by the city.

B.2 Conduit

Furnish and install DB_60 polyvinyl chloride (PVC) conduit. Conduit will be accepted on the basis of a Manufacturer's Certificate of Compliance and WISDOT field inspection upon delivery to a project.

Manufacturers of PVC Conduit DB-60 shall request evaluation and approval of their products by filing with the department's Research Supervisor, Bureau of Highway Construction, a certificate setting forth the name or brand of pipe to be furnished, the specified type, category, grade and PVC plastic cell classifications. The certificate shall have attached a certified test report from an approved independent testing laboratory showing specific results of tests performed on each diameter conduit to be furnished conforming to all requirements of these specifications. The conduit tested shall be randomly selected for test by the independent testing laboratory as being representative of that manufacturer's conduit. The manufacturer of the conduit shall also submit with the certification, a guarantee that all conduit furnished be of the same quality and composition and conform to the specification requirements as tested by the independent laboratory, as long as the manufacturer continues to furnish materials for WISDOT projects.

PVC conduit and fittings shall conform to the requirements of Standard Specifications for Smooth-Wall Poly (Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation, ASTM Designation: F512 (latest edition).

B. 3 Concrete

The type of concrete mix to be used to encase the ducts will be:

Type I Cement	280 lbs
Fly Ash	100 lbs
Sharp Torpedo Sand	3100 lbs
Water	35 gals
Chryso Air 260 or approved equal	2.0 ozs
Chryso Plast 209 or approved equal	7.0 ozs
Air	5%

Mix the materials to provide an approximate 3 inch slump.

B.4 Slurry Backfill

Aggregate slurry backfill consists of No. 1 concrete aggregate Class 'C' concrete mix with the cement deleted.

Fly Ash (Class C)	75 lbs.
Concrete Sand (Damp)	1830 lbs.
No. 1 Concrete Aggregate	1830 lbs.

Mix with water to inundate the aggregate sufficiently to provide an approximate 3-inch slump. Deposit the mix directly from a concrete transit mix truck.

For any questions on materials, contact Ms. Karen Roney at (414) 286-3243.

C Construction

C.1 Conduit Alterations

Excavate to expose existing conduit. Break back by hand sections of cement encased conduit to facilitate excavation for the new proposed structure. Hand chip concrete away for the existing pipes. Carefully remove pipes from around the cables. Hand chip enough concrete away from the pipes to allow for the coupling of split ducts on to the ends of the pipes. Protect exposed pipe ends and existing cables from damage.

C.2 Manhole

Manhole Type CUC "Doghouse" shall be installed according to standard spec 611.3. The bottom section of the manhole shall be installed while avoiding damage to the live active cables. The excavation may need to be widened to slide the bottom under the existing cables. After the bottom section of the manhole has been set, the existing cables need to be placed within the window openings, splice cases and/or coils placed back into the manhole.

Exercise extreme care in the handling of working cables within the excavation. When cables need to be moved, particularly lead sheathed cables, move cables slowly and gradually. Avoid sharp kinks that may damage the inner core of the cables and the sheath.

Complete the "doghouse" manhole installation without any damage or service disruption to the existing cables.

Install 4' Diameter "Doghouse" Manholes Type CUC Installed over Conduit according to standard spec 611.3.

Install the top of the roof deck at a standard depth of 18" below finished grade where possible. A minimum depth of 12" from finished grade to the top of the roof deck must be maintained.

C.3 Placing Duct

All ducts shall be inspected before placing to see that the bores are clean and free from mud, sand, etc. Only ducts with a smooth bore, free from burrs, rough projections etc. shall be used. Where burrs or other rough areas likely to damage cable are found in the duct, they shall be smoothed off by rasping or scraping.

All existing ducts shall be extended into the new manhole structure unless otherwise noted on the plan. Split PVC duct should be used on ducts containing cables. The split duct shall be installed per manufactures recommendations using tape and reinforced with plastic straps to produce a rigid, stable unit.

All ducts shall terminate on the inside wall of the manhole. A standard end bell fitting shall be installed on all duct access points into the manhole.

Where trace wires are present, reconnect and extend trace with #10 copper wire extended two feet past the inside wall of the manhole.

C.4 Concreting

Begin concreting after conduit has been laid and the trench and duct have been inspected. The minimum concrete encasement of the ducts is 3 inches on the top, 2 inches on the sides, and 3 inches on the bottom. After placing, the concrete shall be puddled with a splicing bar or similar tool so that complete duct encasement is accomplished. Wood braces used to keep the conduit from floating shall be removed before the concrete sets completely and the resultant encasement voids filled with concrete.

Allow the concrete encasement to set for a minimum of 6 hours before backfilling is commenced.

C.5 Slurry Backfill

Commence backfilling immediately after the duct has been inspected, approved and has set to withstand the load.

An aggregate slurry as specified shall be used to backfill all concrete encased conduit. The trench shall be slurry backfilled to the proposed or existing subgrade. The mix shall be deposited in the trench directly from a concrete transit mix truck.

D Measurement

The department will measure 4' Diameter "Doghouse" Manhole Type CUC Installed over Conduit by each individual manhole, 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.0060.53	4' Diameter "Doghouse" Manhole Type CUC Installed over Conduit	EACH

Payment is full compensation for all excavation work and disposal of material; for furnishing and installing all materials, including precast manhole, conduit, conduit fittings, end bells, bricks, and coarse aggregate, bedding, concrete forms, concrete placement, appurtenances, and backfilling.

69. 5' Diameter "Doghouse" Manhole Type CUC, Item SPV.0060.54.

A Description

The work under this item consists of a 5'-0" diameter precast concrete "doghouse" manhole for the City of Milwaukee Underground Conduit Section at locations shown in the plans, according to standard spec 301, 611 and 501, and as hereinafter provided. This work includes providing and placing PVC pipe and associated fittings, cement encasement, and other appurtenances to extend existing conduit as required to provide a complete and fully functional communications manhole unit.

B Materials

B.1 Manhole

Furnish and install a 6' diameter precast concrete "doghouse" manhole. Concrete and steel reinforcement shall conform to ASTM specification: C478 (latest edition), except that the two cages of circumferential reinforcement in all vertical walls shall consist of lines of #6 steel wire spaced 3" horizontally and lines of #10 steel wire spaced 8" vertically both located in the center of the wall, and #6 hoop rebar centered in the wall 3" above the window knock-outs.

Two lifting inserts for 1-1/2" diameter lifting eyes shall be cast in the wall of the base and all other riser sections except the top cap section.

Up to four 7/8" diameter galvanized steel 1-11/16" pulling-in eyes shall be cast in the wall of the base section directly across from each duct entrance.

Four 5/8" diameter plastic threaded cable rack bolt inserts shall be cast in the wall of the riser section.

A continuous circumferential Butyl Rubber gasket shall be supplied, to be laid on the wall joint of the base and riser section when manhole is being assembled at job site.

The number of pulling-in eyes and/or cable rack bolt inserts may vary. Additionally, the size, location, shape and number of duct entrances and/or knock-out area may vary. Unit price of manhole shall not vary for number of openings, pulling-in eyes and/or rack bolt inserts.

Field verify window depth and locations prior to ordering manhole.

The City will supply a frame and lid for the manhole. Contractor shall contact Mr. Ricardo Lopez, Inventory Clerk at (414) 286-6123 prior to obtaining the frame and lid from the DPW Headquarters at 3850 N. 35th St. Contractor must have the "Casting Requisition Form" which will be supplied by the city.

B.2 Conduit

Furnish and install DB_60 polyvinyl chloride (PVC) conduit. Conduit will be accepted on the basis of a Manufacturer's Certificate of Compliance and WISDOT field inspection upon delivery to a project.

Manufacturers of PVC Conduit DB-60 shall request evaluation and approval of their products by filing with the department's Research Supervisor, Bureau of Highway Construction, a certificate setting forth the name or brand of pipe to be furnished, the specified type, category, grade and PVC plastic cell classifications. The certificate shall have attached a certified test report from an approved independent testing laboratory showing specific results of tests performed on each diameter conduit to be furnished conforming to all requirements of these specifications. The conduit tested shall be randomly selected for test by the independent testing laboratory as being representative of that manufacturer's conduit. The manufacturer of the conduit shall also submit with the certification, a guarantee that all conduit furnished be of the same quality and composition and conform to the specification requirements as tested by the independent laboratory, as long as the manufacturer continues to furnish materials for WISDOT projects.

PVC conduit and fittings shall conform to the requirements of Standard Specifications for Smooth-Wall Poly (Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation, ASTM Designation: F512 (latest edition).

B. 3 Concrete

The type of concrete mix to be used to encase the ducts will be:

Type I Cement	280 lbs
Fly Ash	100 lbs
Sharp Torpedo Sand	3100 lbs
Water	35 gals
Chryso Air 260 or approved equal	2.0 ozs
Chryso Plast 209 or approved equal	7.0 ozs
Air	5%

Mix the materials to provide an approximate 3-inch slump.

B.4 Slurry Backfill

Aggregate slurry backfill consists of No. 1 concrete aggregate Class 'C' concrete mix with the cement deleted.

Fly Ash (Class C)	75 lbs.
Concrete Sand (Damp)	1830 lbs.
No. 1 Concrete Aggregate	1830 lbs.

Mix with water to inundate the aggregate sufficiently to provide an approximate 3-inch slump. Deposit the mix directly from a concrete transit mix truck.

For any questions on materials, contact Ms. Karen Roney at (414) 286-3243.

C Construction

C.1 Manhole

Install the bottom section of the manhole while avoiding damage to the live active cables. The excavation may need to be widened to slide the bottom under the existing cables. After the bottom section of the manhole has been set, the existing cables need to be placed within the window openings, splice cases and/or coils placed back into the manhole.

Exercise extreme care in the handling of working cables within the excavation. When cables need to be moved, particularly lead sheathed cables, move cables slowly and gradually. Avoid sharp kinks that may damage the inner core of the cables and the sheath.

Complete the "doghouse" manhole installation without any damage or service disruption to the existing cables.

Install 5' Diameter "Doghouse" Manholes Type CUC Installed over Conduit according to standard spec 611.3.

Install the top of the roof deck at a standard depth of 18" below finished grade where possible. A minimum depth of 12" from finished grade to the top of the roof deck must be maintained.

C.2 Placing Duct

All ducts shall be inspected before placing to see that the bores are clean and free from mud, sand, etc. Only ducts with a smooth bore, free from burrs, rough projections etc. shall be used. Where burrs or other rough areas likely to damage cable are found in the duct, they shall be smoothed off by rasping or scraping.

All existing ducts shall be extended into the new manhole structure unless otherwise noted on the plan. Split PVC duct should be used on ducts containing cables. The split duct shall be installed per manufactures recommendations using tape and reinforced with plastic straps to produce a rigid, stable unit.

All ducts shall terminate on the inside wall of the manhole. A standard end bell fitting shall be installed on all duct access points into the manhole.

Where trace wires are present, reconnect and extend trace with #10 copper wire extended two feet past the inside wall of the manhole.

C.3 Concreting

Begin concreting after conduit has been laid and the trench and duct have been inspected. The minimum concrete encasement of the ducts is 3 inches on the top, 2 inches on the sides, and 3 inches on the bottom. After placing, the concrete shall be puddled with a splicing bar or similar tool so that complete duct encasement is accomplished. Wood braces used to keep the conduit from floating shall be removed before the concrete sets completely and the resultant encasement voids filled with concrete.

Allow the concrete encasement to set for a minimum of 6 hours before backfilling is commenced.

C.4 Slurry Backfill

Commence backfilling immediately after the duct has been inspected, approved and has set to withstand the load.

An aggregate slurry as specified shall be used to backfill all concrete encased conduit. The trench shall be slurry backfilled to the proposed or existing subgrade. The mix shall be deposited in the trench directly from a concrete transit mix truck.

D Measurement

The department will measure 5' Diameter "Doghouse" Manhole Type CUC by each individual manhole, 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.0060.54	5' Diameter "Doghouse" Manholes Type CUC	EACH

Payment is full compensation for all excavation work and disposal of material; for, furnishing and installing all materials, including precast manhole, conduit, conduit fittings, end bells, bricks, and coarse aggregate, bedding, concrete forms, concrete placement, appurtenances, and backfilling.

70. 6' Diameter "Doghouse" Manhole Type CUC, Installed over Conduit, Item SPV.0060.55.

A Description

The work under this item consists of a 6'-0" diameter precast concrete "doghouse" manhole for the City of Milwaukee Underground Conduit Section at locations shown in the plans, according to standard spec 301, 611 and 501, and as hereinafter provided. This work includes providing and placing PVC pipe and associated fittings, cement encasement, and other appurtenances to extend existing conduit as required to provide a complete and fully functional communications manhole unit.

B Materials

B.1 Manhole

Furnish and install a 6' diameter precast concrete "doghouse" manhole. Concrete and steel reinforcement shall conform to ASTM specification: C478 (latest edition), except that the two cages of circumferential reinforcement in all vertical walls shall consist of lines of #6 steel wire spaced 3" horizontally and lines of #10 steel wire spaced 8" vertically both located in the center of the wall, and #6 hoop rebar centered in the wall 3" above the window knock-outs.

Two lifting inserts for 1-1/2" diameter lifting eyes shall be cast in the wall of the base and all other riser sections except the top cap section.

Up to four 7/8" diameter galvanized steel 1-11/16" pulling-in eyes shall be cast in the wall of the base section directly across from each duct entrance.

Four 5/8" diameter plastic threaded cable rack bolt inserts shall be cast in the wall of the riser section.

A continuous circumferential Butyl Rubber gasket shall be supplied, to be laid on the wall joint of the base and riser section when manhole is being assembled at job site.

The number of pulling-in eyes and/or cable rack bolt inserts may vary. Additionally, the size, location, shape and number of duct entrances and/or knock-out area may vary. Unit price of manhole shall not vary for number of openings, pulling-in eyes and/or rack bolt inserts.

Field verify window depth and locations prior to ordering manhole.

The city will supply a frame and lid for the manhole. Contractor shall contact Mr. Ricardo Lopez, Inventory Clerk at (414) 286-6123 prior to obtaining the frame and lid from the DPW Headquarters at 3850 N. 35th St. Contractor must have the "Casting Requisition Form" which will be supplied by the city.

B.2 Conduit

Furnish and install DB_60 polyvinyl chloride (PVC) conduit. Conduit will be accepted on the basis of a Manufacturer's Certificate of Compliance and WISDOT field inspection upon delivery to a project.

Manufacturers of PVC Conduit DB-60 shall request evaluation and approval of their products by filing with the department's Research Supervisor, Bureau of Highway Construction, a certificate setting forth the name or brand of pipe to be furnished, the specified type, category, grade and PVC plastic cell classifications. The certificate shall have attached a certified test report from an approved independent testing laboratory showing specific results of tests performed on each diameter conduit to be furnished conforming to all requirements of these specifications. The conduit tested shall be randomly selected for test by the independent testing laboratory as being representative of that manufacturer's conduit. The manufacturer of the conduit shall also submit with the certification, a guarantee that all conduit furnished be of the same quality and composition and conform to the specification requirements as tested by the independent laboratory, as long as the manufacturer continues to furnish materials for WISDOT projects.

PVC conduit and fittings shall conform to the requirements of Standard Specifications for Smooth-Wall Poly (Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation, ASTM Designation: F512 (latest edition).

B. 3 Concrete

The type of concrete mix to be used to encase the ducts will be:

Type I Cement	280 lbs
Fly Ash	100 lbs
Sharp Torpedo Sand	3100 lbs
Water	35 gals
Chryso Air 260 or approved equal	2.0 ozs
Chryso Plast 209 or approved equal	7.0 ozs
Air	5%

Mix the materials to provide an approximate 3-inch slump

B.4 Slurry Backfill

Aggregate slurry backfill consists of No. 1 concrete aggregate Class 'C' concrete mix with the cement deleted.

Fly Ash (Class C)	75 lbs.
Concrete Sand (Damp)	1830 lbs.
No. 1 Concrete Aggregate	1830 lbs.

Mix with water to inundate the aggregate sufficiently to provide an approximate 3-inch slump. Deposit the mix directly from a concrete transit mix truck.

For any questions on materials, contact Ms. Karen Roney at (414) 286-3243.

C Construction

C.1 Conduit Alterations

Excavate to expose existing conduit. Break back by hand sections of cement encased conduit to facilitate excavation for the new proposed structure. Hand chip concrete away for the existing pipes. Carefully remove pipes from around the cables. Hand chip enough concrete away from the pipes to allow for the coupling of split ducts on to the ends of the pipes. Protect exposed pipe ends and existing cables from damage.

C.2 Manhole

Manhole Type CUC "Doghouse" shall be installed according to standard spec 611.3. The bottom section of the manhole shall be installed while avoiding damage to the live active cables. The excavation may need to be widened to slide the bottom under the existing cables. After the bottom section of the manhole has been set, the existing cables need to be placed within the window openings, splice cases and/or coils placed back into the manhole.

Exercise extreme care in the handling of working cables within the excavation. When cables need to be moved, particularly lead sheathed cables, move cables slowly and gradually. Avoid sharp kinks that may damage the inner core of the cables and the sheath.

Complete the "doghouse" manhole installation without any damage or service disruption to the existing cables.

Install 6' Diameter "Doghouse" Manholes Type CUC Installed over Conduit according to standard spec 611.3.

Install the top of the roof deck at a standard depth of 18" below finished grade where possible. A minimum depth of 12" from finished grade to the top of the roof deck must be maintained.

C.3 Placing Duct

All ducts shall be inspected before placing to see that the bores are clean and free from mud, sand, etc. Only ducts with a smooth bore, free from burrs, rough projections etc. shall be used. Where burrs or other rough areas likely to damage cable are found in the duct, they shall be smoothed off by rasping or scraping.

All existing ducts shall be extended into the new manhole structure unless otherwise noted on the plan. Split PVC duct should be used on ducts containing cables. The split duct shall be installed per

manufactures recommendations using tape and reinforced with plastic straps to produce a rigid, stable unit.

All ducts shall terminate on the inside wall of the manhole. A standard end bell fitting shall be installed on all duct access points into the manhole.

Where trace wires are present, reconnect and extend trace with #10 copper wire extended two feet past the inside wall of the manhole.

C.4 Concreting

Begin concreting after conduit has been laid and the trench and duct have been inspected. The minimum concrete encasement of the ducts is 3 inches on the top, 2 inches on the sides, and 3 inches on the bottom. After placing, the concrete shall be puddled with a splicing bar or similar tool so that complete duct encasement is accomplished. Wood braces used to keep the conduit from floating shall be removed before the concrete sets completely and the resultant encasement voids filled with concrete.

Allow the concrete encasement to set for a minimum of 6 hours before backfilling is commenced.

C.5 Slurry Backfill

Commence backfilling immediately after the duct has been inspected, approved and has set to withstand the load.

An aggregate slurry as specified shall be used to backfill all concrete encased conduit. The trench shall be slurry backfilled to the proposed or existing subgrade. The mix shall be deposited in the trench directly from a concrete transit mix truck.

D Measurement

The department will measure 6' Diameter "Doghouse" Manhole Type CUC Installed over Conduit by each individual manhole, 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.0060.55	6' Diameter "Doghouse" Manholes Type CUC Installed over Conduit	EACH

Payment is full compensation for all excavation work and disposal of material; for furnishing and installing all materials, including precast manhole, conduit, conduit fittings, end bells, bricks, and coarse aggregate, bedding, concrete forms, concrete placement, appurtenances, and backfilling.

71. Removing CUC Manhole, Item SPV.0060.56.

A Description

The work under this item describes removing various manholes for the City of Milwaukee Underground Conduit Department at locations shown in the plans, according to standard spec 204 and as follows. Removal means removal of the existing structure and any necessary conduit alterations required.

B (Vacant)

C Construction

C.1 General Requirements

Complete all operations necessary to remove the existing structure and that might endanger the new construction before constructing new work.

Manholes designated for removal and subsequent reconstruction will ordinarily contain working cables which must be maintained during the course of this phase of work. Protective measures against damage must be observed when handling and working around these cables.

C.2 Frame and Cover Removal

Remove the frame and cover on all manholes designated for removal. If the castings are to be salvaged as directed in the plans, exercise caution with frames embedded in concrete so unnecessary damage to the frame does not occur during the process of breaking concrete. Remove all mortar and concrete from the frame. Store salvaged castings at location approved of by the engineer.

C.3 Protection of Cables

Extreme care must be exercised in the handling of working cables in manholes or exposed conduit package areas while removal work is going on. Cables may carry high voltage that may be life threatening.

No cable removed from its racks and spanning the manhole opening is to be permitted to sag appreciably from its own weight across such opening. Provide temporary supports for all cables.

When cables need to be moved, particularly lead sheathed cables, move cables slowly and bend gradually. Avoid sharp kinks that may damage inner core of cables and the sheath.

Cables must be left as stationary as is practicable after the cables have been temporarily located. Exercise care if further shifting is required while construction work progresses and if needed, re-support.

Guard against damage to the exposed cables by falling objects such as tools, equipment and debris. Avoid stepping on cables. Do not use cables to support any objects during the course of the construction work.

Promptly notify Mr. Brian Pawlak at (414) 286-5970 work / (414) 708-2118 cell, of any visible cable defects discovered at the time the cable is exposed. Report any signs of abrasion, sheath rupture, kinking in the cable or evidence of sheath cracks.

The contractor will be held liable for all damage due to carelessness and to neglect and is responsible for protecting and safeguarding cables. All damage shall be repaired at the contractor's expense.

C.4 Removing Existing Structure

After removal of the castings and protecting and supporting the cables, carefully remove the manhole roof, walls, floor and all hardware. No portion of the existing structure is to remain. The increase in the size of the excavation will be determined by the size of the manhole to be reconstructed as indicated in the detail plans. Remove all waste material accumulated by the removal of the existing structure from the work site. No part of this waste material can be used as backfill material.

C.5 Conduit Alterations

Break back by hand sections of cement encased conduit to facilitate excavation for the new proposed structure. Hand chip concrete away for the existing pipes. Carefully remove pipes from around the cables. Hand chip enough concrete away from the pipes to allow for the coupling of split ducts on to the ends of the pipes. Protect exposed pipe ends and existing cables from damage.

D Measurement

The department will measure Removing CUC Manhole by each individual manhole, acceptably removed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.56	Removing CUC Manhole	EACH

Payment is full compensation for breaking down and removing structure; conduit alterations; for providing cable protection; and for hauling and disposing of materials.

72. Installing Conduit Into Existing Manhole, Item SPV.0060.57.

A Description

This special provision describes providing locating existing conduit system manholes and installing new conduit into those manholes at the locations shown on the plans. The contractor shall verify existing conduit manhole locations with the City of Milwaukee, and shall maintain any existing conductors, fibers, and conduit paths without interruption or damage. Repair and restoration of all disturbed areas resulting from the work shall be according to the pertinent provisions of the standard specifications, and as hereinafter provided.

B Materials

Furnish conduit, as provided and paid for under other items in this contract. All materials shall conform to the pertinent provisions of the standard specifications unless otherwise noted.

C Construction

Carefully expose the outside of the existing structure without disturbing any existing conduits or cabling.

Drill the appropriate sized hole in a concrete structure or saw and remove full sections of block or bricks from the existing structure for the entering of conduit at a location within the structure that will not disturb the existing cabling and will not hinder the installation of new cabling within the installed conduit. This work may include the removal of the existing abandoned conduit from the structure to allow for the installation of the new conduits as indicated on the plans.

Fill any void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure.

Carefully tamp backfill into place.

All disturbed areas shall be repaired and restored in kind.

D Measurement

The department will measure Installing Conduit Into Existing Manhole by each unit, acceptably installed. Up to six conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of six, or conduits entering at significantly different entry points into the existing manhole will constitute multiple units.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.57	Installing Conduit Into Existing Manhole	EACH

Payment is full compensation for drilling holes; removing blocks: removing bricks: removing abandoned conduit; furnishing and installing all materials, including bricks, and coarse aggregate; for excavation, bedding and backfilling, including any sand or other required materials; furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for disposal of surplus materials; and for making inspections.

73. Luminaire Utility LED 3, Item SPV.0060.58.

A Description

This special provision describes furnishing and installing Luminaire Utility LED 3 street lighting fixture according to current City of Milwaukee Electrical methods and National Electrical Code standards. All work shall be according to standard spec 651, and as follows.

B Materials

Furnish:

Luminaire Utility LED 3 with I.E.S. Type 2 Light Distribution (NEMA label '3LED2')

- American Electric ATBM-H-MVOLT-R2-4B-3K-20-NL-P7-SH
- Leotek GC2-96G-MV-WW-2R-GY-450-PCR7-SC-WL-BBL
- or approved equal

and/or

Furnish:

Luminaire Utility LED 3 with I.E.S. Type 3 Light Distribution (NEMA label '3LED3')

- American Electric ATBM-H-MVOLT-R3-4B-3K-20-NL-P7-SH
- Leotek GC2-96G-MV-WW-3R-GY-450-PCR7-SC-WL-BBL
- or approved equal

Technical Specifications: All features below shall be incorporated into the equipment and all items shall be furnished and installed into a complete unit ready for operation.

Type: The LED luminaires purchased under this contract shall be of American Electric ATBM, Leotek GC2 series, or approved equal with the above order number. The luminaires shall be designed so it can efficiently produce uniform illumination according to I.E.S. Type II light distribution and/or the I.E.S. Type III light distribution according to the lighting plan.

Housings: The housing and door shall be rugged, high quality, cast aluminum for maximum strength, durability and lasting beauty. All castings shall be free from pits, blowholes, or other irregularities. All edges are to be free from burrs.

1. Housing: The housing shall have an integral leveling pad or other suitable means for quick, easy and proper positioning of the luminaire.
2. Door: The door shall be hinged and easily opened for routine maintenance. All component parts shall be easily accessible with the lower housing opened. Tool-less entry is required.
3. Leveling: A Bubble level is to be located inside the electrical compartment for easy leveling at installation.
4. Hinges: Hinges shall be so constructed and designed to accurately position the door and assure a positive locking with the housing. The hinges shall be provided with a safety catch to prevent the accidental disengagement of the door during servicing.
5. Finish: The entire housing shall be polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process shall yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117)
6. Color: The luminaire shall be grey in color unless otherwise specified.
7. Label: There shall be a NEMA label '3LED2' and/or '3LED3' clearly visible at 30 feet height attached to the door of the luminaire.
8. In addition, the luminaire complete model number and manufacturing date shall be indicated inside the housing.

Led/Optical Assembly:

The LED assembly is to be chip on board. The LED module is to be enclosed and sealed with a borosilicate Prismatic Glass optical assembly. The combination shall be NEMA IP66 rated for dust and water resistant. The L₇₀, per IES TM-21, must be greater or equal to 100,000 hours of operational time at 25 degrees Centigrade.

The color temperature is to be 3,000K CCT.

Power Supply:

The Electronic driver must have an expected life of 100,000 hours at a 25°C ambient.

It is to be rated at 240 volts, 60Hz. A driver with multiple input voltages can be supplied as long as it can operate at 240 volts.

Surge Protection:

A surge protector which provides a minimum of 20kV/20kA protection as per IEEE/ANSI C62.41 Category C is to be included. There shall be a visual indicator showing the surge protector is operational.

Terminal Block: A heavy duty terminal block shall be provided which will accept wire sizes up to #6 A.W.G. The terminal block shall be compatible with either aluminum or copper wire.

Mounting: Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provide a 4 bolt clamping mechanism with 3G vibration rating per ANSI C136.

Hardware: All nuts, bolts, latches, etc. furnished with the luminaire shall be fabricated from stainless steel or non-ferrous materials.

Photocontrol: There is to be no photocell supplied.

Warranty: The manufacturer warrants that goods sold hereunder will be merchantable quality, will conform to applicable specifications, drawings designs, samples or descriptions, will be free from defects in material and workmanship and will be fit for the particular purpose intended by City of Milwaukee.

This warranty shall remain in effect for five years from date of acceptance.

Under this provision, the manufacturer agrees to repair or replace within a reasonable time, any part, feature or product found to be defective during the warranty period at no cost to the city.

C Construction

Install lighting fixture on the mounting bracket on the pole according to manufacturer standards. Provisions for inserting 2#12UF cable between the fixture and cable connecting point at the transformer base shall be included per applicable details within design set.

D Measurement

The department will measure Luminaire Utility LED 3 by 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.0060.58	Luminaire Utility LED 3	EACH

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

74. Internal Sanitary Manhole Seals, Item SPV.0060.59.

A Description

The work under this item consists of furnishing and installing internal manhole chimney seals for each sanitary manhole identified on the plans.

B Material

The contractor shall furnish and install frame-to-chimney seals on all sanitary manholes within the limits of this contract. The seals shall be as specified in the *Standard Specification for Sewer and Water Construction in Wisconsin (Sixth Edition with addendum) Chapter 8.42.0.*

C Construction

The inside diameter of the manhole frame and the manhole chimney shall be field measured, and a determination as to whether the inside face of the frame is vertical or tapered shall be made in order to obtain the proper size and shape rubber seal.

Internal rubber chimney seals shall be installed no sooner than 24 hours following chimney back plastering.

The surfaces against which the sleeve is to be compressed shall be circular, clean, reasonably smooth and free of any loose materials and excessive voids. Any flaws in these surfaces shall be repaired with the approved low-shrink mortar or ground smooth. A bead of butyl rubber caulk conforming to ASSHTO M-198 Type B shall be applied to the lower sealing surface of sleeve.

The seal shall be installed according to the manufacturer's instructions. (Refer to the plan data for configuration of chimney seal.)

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.59	Internal Sanitary Manhole Seals	EACH

Payment is full compensation for furnishing and installing internal rubber chimney seals.

75. Storm Sewer Pipe Corrugated PVC, 12-Inch, Item SPV.0090.01.

A Description

This special provision describes furnishing and installing storm sewer according to standard spec 608, as shown on the plans, and as hereinafter provided.

B Materials

Supplement standard spec 608.2 as follows:

Furnish corrugated polyvinyl chloride (PVC) pipe. Storm sewer will be accepted on the basis of a Manufacturer's Certificate of Compliance and WisDOT field inspection upon delivery to a project.

Manufacturers of corrugated PVC pipe shall request evaluation and approval of their projects by filing with the department's Bureau of Technical Services, a certificate setting forth the name or brand of pipe to be furnished, the specified type, category, grade and PVC plastic cell classification. The certificate shall have attached a certified test report from an approved independent testing laboratory showing specific results of tests performed on each diameter pipe to be furnished conforming to all requirements of these specifications. The pipes tested shall be randomly selected for test by the independent testing laboratory as being representative of that manufacturer's pipe. The manufacturer of the pipe shall also submit with the certification, a guarantee that all pipe furnished be of the same quality and composition and conform to the specifications requirements as tested by the independent laboratory, as long as the manufacturer continues to furnish materials for WisDOT projects.

Corrugated PVC pipe and fittings shall conform to the requirements of standard specification for PVC Corrugated Sewer Pipe with a smooth interior and fittings, ASTM Designation: F949. Joint connections shall include gaskets as recommended by the manufacturer.

C Construction

Trench width shall be according to standard practice for underground installation of flexible thermoplastic sewer pipe, ASTM Designation D 2321. Minimum trench width shall be not less than a greater of either the pipe outside diameter plus 16 inches or the pipe outside diameter times 1.25 plus 12 inches.

Seal joints for sewer pipe to be soil tight according to AASHTO Standard Specifications for Highway Bridges, section 26.4.2(e).

Protect all storm sewer pipes until final acceptance of the work; replace all pipes that are damaged either through the construction operations or due to contractor failure to properly protect the same, in kind at contractor expense.

Backfill all trenches and excavations immediately after the sewers have been constructed therein. Use backfilling material that is according to the requirements for granular backfill, section 209, except that all such materials placed around the pipe and to 6 inches above the pipe shall pass a 25 mm sieve.

D Measurement

The department will measure Storm Sewer Pipe Corrugated PVC, 12-Inch in length by the linear foot according to standard spec 608.4.1.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Storm Sewer Pipe Corrugated PVC 12 Inch	LF

Payment is according to standard spec 608.5.1. The payment includes the incidental costs of connecting to existing manhole structures.

76. Construction Staking Concrete Sidewalk, Item SPV.0090.02.

A Description

This special provision describes furnishing and setting construction stakes or control points, including all calculations required, necessary to establish the horizontal and vertical position of the concrete sidewalk as shown on the plans. Conform to standard spec 650 and as follows.

B (Vacant)

C Construction

Obtain or calculate benchmark data, grades, and alignment from data in the plan and verify with the engineer prior to beginning the work. The engineer will furnish horizontal alignment, horizontal alignment ties and control point data. This work shall include reestablishing the plan horizontal roadway alignment, alignment ties, and control points.

Obtain approval from the engineer prior to beginning the work for methods of survey and prior to beginning the work. The degree of accuracy used in the survey work shall be consistent with third order, class II. Establish additional benchmarks and control points as necessary or as directed by the engineer. Check plan dimensions, alignment, and elevations for accuracy with existing field conditions. Immediately call to the engineer's attention any errors and apparent discrepancies for correction or interpretation prior to proceeding with the work.

Maintain neat, orderly and complete survey notes and computations used in establishing the lines and grades. Make the survey notes and computations available to the engineer within 24 hours upon request as the work progresses.

Place construction stakes for concrete sidewalk at intervals of 25 feet. A minimum of three stakes per cross section is required. Set and maintain as necessary additional stakes per cross section to achieve the required accuracy and to satisfy the contractors' method of operations. Set additional stakes as necessary to establish location and grade along intersecting road radii, vertical curves, horizontal curves, and curve transitions. Locate all construction stakes to within 0.25 feet of the true horizontal position and establish the grade elevation to within 0.01 foot of the true vertical position.

D Measurement

The department will measure Construction Staking, Concrete Sidewalk by the linear foot along each roadway centerline or reference line, acceptably completed. When sidewalk occurs on both sides of the roadway, the quantity of Construction Staking, Concrete Sidewalk, will be measured by the linear foot along the centerline or reference line of each side of the roadway.

E Payment

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

Item Number	Description	Unit
SPV.0090.02	Construction Staking Concrete Sidewalk	LF

Payment is full compensation for all survey work necessary to locate and set all concrete sidewalk construction stakes including additional stakes per cross section set to achieve the required accuracy and to satisfy the contractors' method of operations including intersecting road radii, auxiliary lanes, vertical curves, horizontal curves, and curve transitions; for resetting damaged or missing concrete sidewalk construction stakes; and for furnishing all stakes, lath, flags, equipment and incidentals necessary to complete the work for staking concrete sidewalk.

77. Liquidtight Flexible Nonmetallic Conduit 1½-Inch Type B, Item SPV.0090.03.

A Description

This special provision describes furnishing and installing liquidtight flexible nonmetallic conduit for traffic signals and street lighting according to standard spec 652, and as shown in the plan details. All work shall be according to standard spec 651 and as follows.

B Materials

The liquidtight flexible nonmetallic conduit shall be Type LFNC-B. The conduit shall be nonconductive, noncorrosive to oil, acid, ozone, and alkaline. The conduit shall have a smooth inner surface with integral reinforcement within the conduit wall.

The flexible nonmetallic conduit shall be UL listed for use as indicated in Article 356 of the latest NEC, and for outdoor use and sunlight resistant.

The fittings and adapters shall be of the same manufacturer as the conduit.

C Construction

Install the fittings, adapters, and conduit in conjunction with traffic signals and street lighting. Install per the manufacturer's instructions and as shown on the plans.

D Measurement

The department will measure Liquidtight Flexible Nonmetallic Conduit 1 ½-Inch Type B by the linear foot of conduit installed, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Liquidtight Flexible Nonmetallic Conduit 1-1/2-Inch Type B	EACH

Payment is full compensation for furnishing and installing the conduit, including the connectors.

**78. Marking Crosswalk Epoxy 12-Inch, Item SPV.0090.04;
Marking Line Epoxy 6-inch, Item SPV.0090.05;
Marking Stop Line Epoxy 24-inch, Item SPV.0090.06.**

Install the pavement marking items according to standard spec 646 and according to the plan details.

79. Fieldstone Boulder Wall, Item SPV.0090.07.

A Description

This special provision describes the requirements for placing fieldstone boulder walls, within the signature beds.

B Materials

The stones shall be Wisconsin Granite field stone, or equal. The size shall range from 12" to 18".

C Construction

The fieldstone boulder walls shall be constructed as shown in the detail. Each wall shall be 2' high (above grade) and approximately 20' long, as measured along the top. The dry stacked wall shall be placed a minimum of 3" below grade and pitched back 1" for every 12" in height.

D Measurement

The department will measure Fieldstone Boulder Wall, 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.0090.07	Fieldstone Boulder Wall	LF

Payment is full compensation for providing, transporting, handling, and placing the fieldstone boulder wall.

**80. Cable Type 3#8/1#8 LTP, Item SPV.0090.08;
Cable Type 3#6/1#8 LTP, Item SPV.0090.09;
Cable Type 3#4/1#8 LTP, Item SPV.0090.10;
Cable Type 3#2/1#8 LTP, Item SPV.0090.11.**

A Description

Furnish and install service cable according to current City of Milwaukee Electrical methods as shown in Typical Installation section and National Electrical Code standards. All work shall be according to standard spec 651 and as follows.

B Materials

B.1.1.

Unless otherwise specified, the cable to be furnished shall comply with the manufacture and test requirements of the Insulated Cable Engineers Association (ICEA) Specification No. S-61-402, NEMA WC5, latest revision.

B.1.2. Conductors

The conductors shall be of soft annealed copper wire according to ASTM-B-3. Conductors No. 6 A.W.G. or larger shall be stranded. Conductors smaller than No. 6 A.W.G. shall be solid unless otherwise specified.

B.2. Insulation

B.2.1. 600V

The insulation for cable rated 600V shall be thermo plastic according to applicable Paragraphs 3.7, 3.8 or 3.9 of ICEA Pub. No. S-61-402, latest revision, and shall be a nominal 60 mils. thickness. Insulation shall meet the ANSI/ASTM D2220-74 (latest revision) accelerated water absorption requirements and -30°C (-22°F) cold bend test.

B.2.2. Nominal Thickness

The nominal insulation thickness around each individual conductor shall be not less than 90% of the thickness specified in the schedule.

B.2.3. Color Code

The insulation compound which covers each conductor making up a cable shall be color coded in conformance with the N.E.M.A. Color Code Standard, unless otherwise specified; however, printed color designations as in I.3.2 or I.3.3. will not be acceptable under this specification (see schedule).

B.3. Jackets

B.3.1.

The jacket for all cables shall be moisture-resisting thermoplastic complying with the requirements for Paragraph 4.3.1. of ICEA Pub. No. S-61-402. The jacket shall have a gravimetric method maximum 30 mg./sq. in. water absorption.

B.3.2.

The minimum average jacket thickness shall be not less than 80% of the thickness specified in the schedule.

B.3.3.

The moisture-resisting thermo-plastic jacket shall provide a tough, durable covering of uniform thickness according to Paragraph 4.3. There shall be no fusing of insulation and jacket, so that the jacket may be easily separated from the core or insulation of individual conductors of multiple conductor cables.

B.4. Round Cable

B.4.1.

All cables with conductor size #4 or larger, shall have non-hydroscopic fillers to provide a substantially round construction.

B.4.2. Inspection and Tests

Each length of the individual insulated conductor and completed cable shall comply with all requirements of I.C.E.A. Standards S-61-402. Sampling and Test Methods shall be according to Part 6. A certified report of the tests made on the cable to show compliance with this specification may be required prior to shipment. If requested, a sample of the cable covered by the report shall also be submitted.

POWER, CABLE SCHEDULE FOR SPECIFICATION

	3#2/1#8		3#4/1#8	
Size of Conductor	#2	#8	#4	#8
Number of Conductors	3	1	3	1

Number of Wires in Conductor	7 or 19	1	7 or 19	1
Type of Insulation	3 PolyV Chlor PolyE	None	3 PolyV Chlor PolyE	None
Insulation Thickness	60 mils	None	60 mils	None
Insulation Voltage Rating	600 volt	None	600 volt	None
Insulation Color Code	1-white 1-black 1-red	None	1-white 1-black 1-red	None
Non-Hydroscopic Fill	Required		Required	
Moisture Resisting Sheath				
Jacket Thickness	60 mils		60 mils	

	3#6/1#8		3#8/1#8		2#8/1#8	
Size of Conductor	#6	#8	#8	#8	#8	#8
Number of Conductors	3	1	3	1	2	1
Number of Wires in Conductor	7	1	1	1	1	1
Type of Insulation	3 PolyV Chlor PolyE	None	3 PolyV Chlor PolyE	None	3 PolyV Chlor PolyE	None
Insulation Thickness	60 mils	None	60 mils	None	60 mils	None
Insulation Voltage Rating	600 volt	None	600 volt	None	600 volt	None
Insulation Color Code	1-white 1-black 1-red	None	1-white 1-black 1-red	None	1-white 1-black	None
Non-hydroscopic Fill	None		None		None	
Moisture Resisting Sheath						
Jacket Thickness	60 mils		60 mils		60 mils	

All conductors shall be uncoated annealed soft copper.

C Construction

The cable shall be installed in P.V.C. conduit when indicated on plans. Any turf damage during installation of cable shall be restored (grass, asphalt or concrete) by the contractor, All splices in luminaires and transformer bases, must be completed by the contractor unless otherwise designated on plans.

D Measurement

The department will measure Cable (Type) LTP 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.0090.08	Cable Type 3#8/1#8 LTP	LF
SPV.0090.09	Cable Type 3#6/1#8 LTP	LF
SPV.0090.10	Cable Type 3#4/1#8 LTP	LF
SPV.0090.11	Cable Type 3#2/1#8 LTP	LF

Payment is full compensation for furnishing labor, equipment, coordination and all materials and incidentals necessary to complete the work. Also included is the labor, equipment and materials for removal of construction debris and site restoration.

81. Cable Type UF 3#12 AWG with Ground, Item SPV.0090.12.

A Description

Furnish and install type UF cable according to current City of Milwaukee Electrical methods and National Electrical Code standards. All work shall be according to section 651 and as follows.

B Materials

Furnish type UF cable with ground including the number and size of conductors as the plans show. Use cable conforming to ANSI/UL 493.

Construction

C.1.1.

Do not splice underground in pull boxes or conduit. Do not leave wire or cable ends uncovered or submerged in water. If the engineer observes this condition, the engineer may reject the entire length of cable or wire. Make all electrical connections and splices with approved pressure or compression type fittings.

C.1.2.

Cover tape with a liberal coating of an electrical varnish or sealant providing flexible protection from oil, moisture, and corrosion. Obtain the engineer's approval of this electrical coating before using. Extend wire for termination 18 inches beyond the pole. Provide 60 inches of cable wire to be pulled into cabinets and left for terminations.

C.1.3.

For all cables entering each pull box, provide an extra loop, approximately 6 feet in length, to remain in each pull box. This loop of cable is in addition to the amount needed to reach from the entrance conduit raceway end to the opening in the exiting conduit raceway.

C.1.4.

Install conductors in continuous lengths without splices from termination to termination. The contractor may splice only at hand-holes in the bases of poles. At locations where no transformer bases exist, splice at the hand-holes in poles.

C.1.5.

Under the Cable Type UF bid items, furnish and install the underground cable network for highway lighting at traffic signal installations.

C.1.6.

If installing lighting in conjunction with traffic signals, use type UF, 2 conductor with ground, solid or stranded copper conductor cable, sized as the plans show from the traffic signal control cabinet to the

pertinent light pole base or bases. Strip the minimum length of jacket necessary to make terminations in a neat and technically proficient manner.

D Measurement

The department will measure Cable Type UF 3#12 AWG with Ground 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.0090.12	Cable Type UF 3#12 AWG with Ground	LF

Payment is full compensation for providing cable; for making all connections; for providing all connectors, including wire nuts, splices, tape, insulating varnish, or sealant; and for testing the circuits.

82. Concrete Curb and Gutter Integral 31-Inch, Item SPV.0090.13.

A Description

This special provision describes constructing concrete curb and gutter according to the requirements of standard spec 601, the construction details, and as shown on the plans.

B Materials

Furnish materials conforming to the requirements of standard spec 601.

C Construction

Perform work according to the requirements of standard spec 601.

D Measurement

The department will measure Concrete Curb and Gutter Integral 31-Inch in length by the linear foot of curb and gutter, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.13	Concrete Curb and Gutter Integral 31-Inch	LF

Payment is full compensation for furnishing all foundation excavation and preparation, all special construction required at curb ramps, for providing all materials, including concrete, expansion joints; for placing, finishing, protecting, and curing; for sawing joints; and for disposing of surplus excavation material. Payment also includes providing tie bars in unhardened concrete. For tie bars provided in concrete not placed under the contract, the department will pay separately under the Drilled Tie Bars bid item as specified in standard spec 416.5.

83. 6-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.14; 4-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.15; 3-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.16; 2-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.17; 1-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60, Item SPV.0090.18.

A Description

This special provision describes furnishing and installing cement encased multiple duct conduit packages below grade as shown on the plans and as hereinafter described.

B Materials

B.1 Conduit

Furnish and install DB-60 polyvinyl chloride (PVC) conduit. Conduit will be accepted on the basis of a Manufacturer's Certificate of Compliance and WISDOT field inspection upon delivery to a project.

PVC conduit and fittings shall conform to the requirements of Standard Specifications for Smooth-Wall Poly (Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation, ASTM Designation: F512 (latest edition).

B.2 Conduit Spacers

Furnish and install nonmetallic interlocking base spacers and intermediate spacers that provide a 1" vertical and 1" horizontal separation between PVC pipes. The base spacers shall provide a 3" vertical separation from the trench bed to the bottom of the PVC pipes.

B.3 Conduit Bed

Furnish and install a minimum 2" conduit bed of stone chips or crushed stone screenings conforming to the following:

3/8 Inch Crushed Stone Chips

Sieve Sizes	% Passing by Weight
1/2"	100
3/8"	90-100
No. 8	0-15
No. 30	0-3

Crushed Stone Screenings

Sieve Sizes	% Passing by Weight
1/2"	100
No. 4	75-100
No. 100	10-25

B.4 Concrete

The type of concrete mix to be used to encase the ducts will be:

Type I Cement	280 lbs
Fly Ash	100 lbs
Sharp Torpedo Sand	3100 lbs
Water	35 gals
Chryso Air 260 or approved equal	2.0 ozs
Chryso Plast 209 or approved equal	7.0 ozs
Air	5%

Mix the materials to provide an approximate 3-inch slump

B.5 Slurry Backfill

Aggregate slurry backfill consists of No. 1 concrete aggregate Class 'C' concrete mix with the cement deleted.

Fly Ash (Class C)	75 lbs.
Concrete Sand (Damp)	1830 lbs.
No. 1 Concrete Aggregate	1830 lbs.

Mix the materials with water to inundate the aggregate sufficiently to provide an approximate 3-inch slump. Deposit the mix in the trench directly from a concrete transit mix truck.

B.6 Pull Rope

Pull rope specifications will be:

- Flat construction (7/16" to 5/8" wide)
- 100% woven aramid fiber (may include tracer wire)
- 1500 lbs. Minimum pull strength prelubricated
- sequential footage markings for location

For any questions on materials, contact Ms. Karen Rogne at (414) 286-3243.

C Construction

C.1 Excavation

The excavation shall have the minimum or maximum dimensions shown on the plans and as follows:

Number of Ducts Wide	Minimum (Inches)	Maximum (Inches)
1	8 1/2	11
2	14 1/8	16 5/8
3	19 3/4	22 1/4.
4	25 3/8	27 7/8
5	31	33 1/2
6	36 5/8	39 1/8
7	42 1/4	44 3/4
8	47 7/8	50 3/8

These minimum and maximum trench widths apply to standard 4 inch PVC electrical duct only. When required, the excavation may be widened for the handling and placing of materials.

Sheath and brace open-cut trenches as required by code and as necessary to maintain safety. The cost of furnishing, placing and removing of sheathing and bracing shall be included in the unit bid for the work.

The dimensions of the excavation will be governed by the number, configuration and the grade (cover) to which the conduit is to be installed as shown on the plan. The walls of the excavation shall be clean and true.

Prior to excavating trenches, expose the existing manhole and conduit lines. The object of this is to permit adjustments in line and grade to avoid special construction methods. Protect the exposed manhole and conduit from damage.

Lay the conduit at a depth so that sufficient protection from damage is provided. Allowable covers shall be as follows:

The standard cover for mainline conduit is 39 inches and the minimum cover acceptable is 28 inches.

Maintain the standard cover wherever possible and any deviation less than the minimum cover requires the approval of the engineer.

Grade the trench to have a minimum pitch of three inches per 100 feet. When an obstruction is encountered in the trench and it is necessary to excavate a deeper trench than would otherwise be required, in order to obtain drainage, refer the matter to the engineer to determine whether the extra excavation should be made.

In grading a trench for mainline conduit, there are three general practices for direction of pitch.

- (a) When grading a trench in a street with a level grade, the high point of the trench bottom should ordinarily be centered between manholes and pitched downward equally toward each manhole.

- (b) Where the street slopes in one direction, locate the high point of the trench bottom approximately 30 feet from the end wall of the higher manhole and grade toward both manholes.
- (c) Where a steep grade is encountered, grade the trench at the minimum pitch from the end wall of the higher manhole to a point 20 feet plus or minus toward the lower manhole. From this point, follow the street grade at the standard cover to a point 20 feet plus or minimum away from the end wall of the lower manhole. From this point, the remainder of the section shall be laid at the normal pitch.

After the rough excavation is completed, prepare the bottom of the trench to receive the conduit. Bring the duct bed to the final grade by grading uniformly from the high point to the low or drainage points. Use stone chips or crushed stone screenings to grade the trench. The duct bed shall be a minimum of 2" in depth.

C.2 Placing of Duct

Proceed with placing the ducts as soon as the duct bed has been completed. Inspect all ducts before placing to see that the bores are clean and free from mud, sand, etc. Use only ducts with a smooth bore, free from burrs, rough projections etc. Smooth off burrs or other rough areas likely to damage cable are found in the duct by rasping or scraping.

Place the duct on base spacers with the ends staggered so no two couplings are adjacent. This may be accomplished by the use of the short lengths in stock or cutting back full length sections to the desired lengths. If cut pieces are used, place the cut end at the manhole. Locate the base spacers within 2 feet of the end of each duct and one base spacer located in the middle of the duct.

Use full length pieces for the balance of the conduit line.

Formations of two ducts or more in height are to be carried forward in full formation, that is, as each tier of 20 foot lengths is laid, the next higher tier of ducts shall then be placed on the intermediate spacers. Place these intermediate spacers on top of the base spacers located within two feet from each duct end and one in the middle of each duct. Place the intermediate spacers and ducts for the remaining tiers. Glue each length into the adjoining coupling. A twist and push on the duct being placed will suffice for a water tight joint. Exercise caution in the driving operation, so that neither the coupling nor the duct will be split or damaged in any way. After the full formation has been completed, place wood trench and duct bracing on the ducts to prevent shifting or floating while the concrete envelope is being placed and during driving operation.

This procedure shall be followed with succeeding lengths, providing spacers at the proper intervals, until sufficient trench footage of completed formation has been placed and is ready to receive concrete encasement.

The terminating point for mainline conduit will be the inside manhole wall. Install a standard end bell fitting flush with the wall on all duct access points.

Install a #10 copper tracer wire along and above the centerline of the duct for encasement in the concrete. The wire shall be 4 feet longer than the run of conduit and be at least 2 feet long at each access point.

Install a pull rope in each run of conduit, as laid. The rope shall be 4 feet longer than the run of conduit and shall be doubled back at least 2 feet at each raceway access point. Anchor the pull rope at each access point in a manner acceptable to the engineer.

C.3 Concreting

Begin concreting after sufficient conduit has been laid and the trench and duct have been inspected. The minimum concrete encasement of the ducts is 3 inches on the top, 2 inches on the sides, and 3 inches on the bottom. After placing, puddle the concrete with a splicing bar or similar tool so that complete duct encasement is accomplished. Remove wood braces used to keep the conduit from floating before the concrete sets completely and the resultant encasement voids filled with concrete.

Allow the concrete encasement to set for a minimum of 6 hours before backfilling is commenced.

C.4 Slurry Backfill

Commence backfilling of the conduit immediately after the duct has been inspected, approved and has set to withstand the load.

An aggregate slurry as specified shall be used to backfill the concrete encased conduit. The trench shall be backfilled to the proposed or existing subgrade. The mix shall be deposited in the trench directly from a concrete transit mix truck.

D Measurement

The department will measure 6-Duct, 4-Duct, 3-Duct, 2-Duct, and 1-Duct Cement Encased, 4-Inch Rigid Non-Metallic Conduit DB-60, furnished and installed at the locations on the plans, by the linear foot, acceptably installed. The measured quantity will equal the linear feet of encased duct, based on the distance along the centerline of duct between ends of conduit. City of Milwaukee shall have final acceptance by the linear feet, 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.0090.14	6-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF
SPV.0090.15	4-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF
SPV.0090.16	3-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF
SPV.0090.17	2-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF
SPV.0090.18	1-Duct Conduit Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF

Payment is full compensation for furnishing the conduit, conduit bodies, conduit fittings, conduit spacers, end caps and trace wire; for excavating, bedding, encasement and backfilling including any concrete, stone, aggregate slurry, bracing, or other related materials; for disposing of surplus materials; and for making inspections, and for installing the conduit.

84. Temporary Pavement Marking Paint 24 Inch White, Item SPV.0090.19; Temporary Pavement Marking Tape 24 Inch White SPV.0090.20.

Install the temporary pavement marking items according to standard spec 649 and according to the plan details.

85. Remove and Reinstall EVP Equipment, Lincoln Avenue & 43rd St, Item SPV.0105.01; Remove and Reinstall EVP Equipment, Lincoln Avenue & 27th St, Item SPV.0105.02.

A Description

This work shall consist of removing, storing, and reinstalling Emergency Vehicle Preemption (EVP) detector heads and confirmation lights at a single intersection, as shown on the plans and as hereinafter provided.

B Materials

The existing detectors to be removed and stored are identified in the plans. Reinstall the detectors and confirmation lights to create a complete and functional system according to the plans. EVP detector cable is itemized and paid separately; all other labor and materials required to complete this work is included in this item.

C Construction

Detectors and lights shall be mounted on the signal arms, luminaire arms, or standards as shown on the plans.

The traffic signal arms and poles shall be drilled and tapped to accommodate the mounting of the detector and light units as shown in the plans. The installation method shall be approved by the manufacturer.

In the event, at installation, a noticeable obstruction is present in line with the detector, the contractor shall be obligated to advise the engineer before installation.

Unless otherwise directed by the engineer, the detector shield tube shall be installed with the drain hole at the bottom.

There shall be no detector cable splices from the detector assembly to the controller terminations.

The EVP detector cables shall be routed to the controller and terminated by the contractor. Each lead shall be appropriately marked as to which street or avenue it is associated.

The EVP as specified and shown in the Plans shall be complete in place, tested, and in full operation.

D Measurement

The department will measure Remove and Reinstall EVP Equipment (Location) as a lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Remove and Reinstall EVP Equipment, Lincoln Ave. & 43rd St	LS
SPV.0105.02	Remove and Reinstall EVP Equipment, Lincoln Ave. & 27th St	LS

Payment is full compensation for removing, storing, furnishing and installing all equipment, cabling, necessary additional items, testing and setting up the system.

86. Video Vehicle Detection System, Lincoln Avenue & 43rd St, Item SPV.0105.03.

A Description

This specification describes furnishing and installing a system that detects vehicles on a roadway using only video images of vehicle traffic. This item includes all materials and labor necessary to install a completely functional vehicle detection system including but not limited to cameras, processors, video monitor, mounting hardware, power cable, and coaxial cable.

B Materials

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

All detection equipment, components, and terminations supplied under this item shall be fully compatible with the City of Milwaukee Mobotrex TS2 Type 1 traffic signal cabinet and Econolite Cobalt TS2 Type 1 traffic signal controller. The system architecture shall fully support Ethernet networking of system components. All required interface equipment needed for transmitting and receiving data shall be provided with the video detection system.

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

C Construction

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

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

The all cables associated with the video detection system shall be routed to the controller. Each lead shall be appropriately marked as to which street or avenue it is associated.

The video detection system, as shown in the traffic signal plans, shall be complete, in place, tested, and in full operation.

D Measurement

The department will measure Video Vehicle Detection System Lincoln Avenue & 43rd St, as a single lump sum unit of work for each intersection acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.03	Video Vehicle Detection System, Lincoln Avenue & 43 rd St	LS

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

87. Joint Sealing, Item SPV.0180.01.

A Description

This special provision describes the minimum requirements for preparing the pavement joints or cracks, and furnishing and installing the sealant. Seal all expansion, hand-formed, and sawed joints in the pavement. Seal all bond or construction joints.

B Materials

Furnish joint sealer that complies with the requirements of ASTM Designation D 3405. Joint sealer shall be composed of a mixture of materials that will form a resilient and adhesive compound capable of effectively sealing joints in concrete against the infiltration of moisture and foreign material throughout repeated cycles of expansion and contraction with temperature changes, and shall be of a mixture that will not flow from the joints or be picked up by vehicle tires at summer temperatures. The material must be capable of being brought to a uniform pouring consistency suitable for completely filling the joints without inclusion of large air holes or discontinuities.

The joint sealer shall be elastic type but poured, and it shall be melted by indirect heat in suitable equipment provided with positive temperature control and mechanical agitation. The material shall not be damaged when heated to the temperature required for satisfactory pouring.

C Construction

Prior to the installation of the joint sealer, clean the pavement joint or crack of all foreign material. Completely remove the slurry resulting from the sawing operations from the joint by blowing it clean with compressed air (using a minimum air pressure of 80 psi).

Only apply the joint sealer when the atmospheric and concrete temperatures are both above 40° F.

D Measurement

The department will measure Joint Sealing in area of pavement acceptably sealed by the contractor in square yards.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Joint Sealing	SY

Payment is full compensation for furnishing and placing the joint sealant; and for cleaning the pavement joints and cracks.

88. Management of Solid Waste, Item SPV.0195.01.

A General

A.1 Description

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

Foundry sand will be encountered within the construction limits. The solid waste may contain NR 500 non-exempt industrial wastes including soil mixed with foundry sand. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as common excavation or as petroleum-contaminated soil will be managed as solid waste.

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

Waste Management Metro Recycling and Disposal Facility
10712 South 124th Street
Franklin, WI 53132
(866) 909-4458

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI 53150
(414) 529-1360

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

A.2 Notice to the Contractor–Solid Waste Locations

The department and others completed hazardous materials assessment for locations within this project where excavation is required. Investigation for soil contamination was conducted at select locations. Results indicate that solid waste (soil contaminated with chlorinated solvents) is present at the following locations as shown on the plans:

- Station 18+25 to 19+30, from 20 feet right of reference line to project limits right, from approximately 0.5 to 3 feet bgs. Approximately 243 cubic yards (approximately 413 tons at an estimated 1.7 tons per cubic yard) of solid waste soil will be excavated from this area.
- Station 28+00 to 32+00, from reference line to project limits right, from approximately 2 to 4 feet bgs. Soil at this location contains foundry sand. Approximately 1031 cubic yards (approximately 1752 tons at an estimated 1.7 tons per cubic yard) of non-exempt solid waste will be excavated from this area.
- Station 39+70 to 42+50, from reference line to project limits right, from approximately 2.5 to 8 feet bgs. Soil at this location contains foundry sand. Approximately 619 cubic yards (approximately 1052 tons at an estimated 1.7 tons per cubic yard) of non-exempt solid waste will be excavated from this area.

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

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

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

If dewatering is required at the above location, conduct the dewatering according to Section C below.

A.3 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin

Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

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

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
Contact: Bryan Bergmann
Phone: (262) 901-2126
Fax: (262) 879-1220
E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

Determining the location and limits of solid waste to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;

1. Identifying soils to be hauled to the landfill facility;
2. Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and
3. Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste fill described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

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

A.5 Health and Safety Requirements

Supplement standard spec 107.1 with the following:

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

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

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

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

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

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

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

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

If dewatering is required in areas of known contamination, water generated from dewatering activities may contain chlorinated solvents, petroleum compounds and/or metals. Such water may require analytical testing, and with approval of the Milwaukee Metropolitan Sewerage District (MMSD) be discharged to the sanitary sewer as follows:

Meet all applicable requirements of the MMSD including the control of suspended solids. Perform all necessary monitoring to document compliance with the MMSD requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the MMSD requirements.

Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Notify the engineer of any dewatering activities, and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Management of Solid Waste	TON

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

**ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)
PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS**

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including “pipeline” activities. The core programs includes: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

TrANS is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor’s needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

- 1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of \$5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.

Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 9 (number) TrANS Graduate(s) be utilized on this contract.

- 2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of \$5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 4 (number) TrANS Apprentice(s) be utilized on this contract.

- 3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.
- 4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.
- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

I. RATIONALE AND SPECIAL NOTE

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. TRANS TRAINING

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE [DBE] PROGRAM IMPLEMENTATION

1. Description

- a. The federal DBE program requirements outlined in the Code of Federal Regulations at 49 CFR Part 26 apply to this Wisconsin Department of Transportation contract. WisDOT is a recipient of federal funds and this contract includes federal funds. United States Department of Transportation Federal DBE Program requires the following provisions:
 - (1) Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE regulations will be considered a material breach of contract. This is non-negotiable. If a contractor fails to carry out the DBE program and Title VI nondiscrimination requirements of its contracts, the following sanctions will be assessed depending upon the facts, reasoning, severity and remedial efforts of the contractor: termination of contract, withholding payment, assessment of monetary sanctions, assessment of liquidated damages and/or suspension/debarment proceedings that may result in the disqualification of the contractor from bidding for a designated period of time.
 - (2) The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains the federal fund recipient's [DOT] written consent. Unless [WisDOT] consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.
- b. The Wisconsin Department of Transportation [WisDOT] is committed to the compliant administration of the DBE Program. Each WisDOT Secretary affirms this commitment with his/her signed assurance.
<https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/policy-statement.pdf>
 - (1) The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
 - i. Produce accurate and complete quotes.
 - ii. Understand highway plans applicable to their work.
 - iii. Understand specifications and contract requirements applicable to their work.
 - iv. Understand contracting reporting requirements.
 - (2) Wisconsin DOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned, specified contract DBE goal by subcontracting work to a DBE or by procuring services or materials from a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.
 - (3) For more comprehensive information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at:
<https://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

2. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
- b. **DBE:** A small business certified as disadvantaged business enterprise (DBE) under the federal DBE program and included on the Wisconsin UCP DBE Directory deemed ready, willing and able.
- c. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
- d. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
- e. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
- f. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually commits to DBE participation at or above the bid percentage, or certifies that they have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. The bid percentage should demonstrate the efforts of the prime contractor prior to bid. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

4. WisDOT Interpretation of Federal DBE Program Provision

Prime contractors must utilize the specific DBEs listed to perform the work and/or supply the materials for which each is listed on the Commitment to Subcontract to DBE Form [DT1506] and approved by WisDOT's DBE office to execute its contract. The approved Commitment to Subcontract to DBE Form [DT1506] becomes a contract document/record.

a. Department's DBE Evaluation Process

WisDOT evaluates DBE using the Commitment to Subcontract to DBE, payments to subcontractors and contract documentation. The prime contractor shall list the specific DBE certified firms and items of work s/he intends to use toward the fulfillment of the assigned DBE contract goal. The prime contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved Form DT1506.

b. Documentation Submittal

The contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506]. Effective January 1, 2017, the contractor will be required to submit the documentation within 5 business days after bid opening. All necessary supporting documentation including Attachment 'A' forms and/or Good Faith Efforts Form

[DT1202] must be submitted no later than 2 business days from contractor's initial submission of the DT 1506. The contractor must provide a signed Attachment 'A' form to the DBE office within the time limit in order to receive authorization for contract execution; the DBE office reserves the right accept alternate documentation in lieu of the signed form in extenuating circumstances. Documentation must be submitted to the DBE Office by email at DBE_Alert@dot.wi.gov (DBE_Alert@dot.wi.gov) or by postal mail ATTN: DBE Office, PO Box 7965, Madison, WI 53707-7965.

(1) **Bidder Meets DBE Goal**

If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage calculation. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

(2) **Bidder Does Not Meet DBE Goal**

- i. If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Efforts Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith efforts submission.
- ii. The department will evaluate the bidder's good faith effort request and notify the bidder of one of the following:
 - (a) If the department grants a good faith efforts, the bid is eligible for contract execution with respect to DBE commitment.
 - (b) If the department rejects the good faith efforts request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith efforts request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

c. **Bidder Fails to Submit Documentation**

If the contractor fails to furnish the Commitment to Subcontract to DBE Form [DT1506] within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

5. Department's Criteria for Good Faith Effort

Appendix A of 49 CFR Part 26, is the guiding regulation concerning good faith efforts. However, the federal regulations do not explicitly define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own practices to create a process for making a determination of adequate good faith. WisDOT evaluates good faith on a contract basis just as each contract award is evaluated individually.

The department will only approve a contractor's good faith efforts if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith efforts will be granted. The bidder must demonstrate, on the DT1202 that they have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

- a. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

b. Prime Contractors should:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT- approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
- (2) Prime contractors may request assistance with DBE outreach and follow-up by contacting the department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Requesting assistance with outreach is not a decisive factor in the review Good faith effort evaluation. Phone numbers are 414-438-4584 and/or 414-659-0487; Fax: 414-438-5392; E-mail: DOTDBESupportServices@dot.wi.gov.
- (3) Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
 - i. Solicit quotes from certified DBE firms who match 'possible items to subcontract' using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which you are seeking quotes to DOTDBESupportServices@dot.wi.gov.
 - ii. SBN is the preferred outreach tool. <https://www.bidx.com/wi/main>. Other acceptable means include postal mail, email, fax, phone call.
 - (a) Primes must ask DBE firms for a response in their solicitations. See *Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
 - (b) Solicit quotes at least 10 calendar days prior to the letting date, at least two Fridays before the letting, to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
 - (c) Second solicitation should take place within 5 calendar days. Email and SBN are the preferred delivery of the follow-up solicitation.
 - iii. Upon request, provide interested DBE firms with adequate information about plans, specifications and the requirements of the contract by letter, information session, email, phone call and/or referral.
 - iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit or insurance if requested.
 - v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
 - (a) Email to all prospective DBE firms in relevant work areas.
 - (b) Phone call log to DBE firms who express interest via written response or call.
 - (c) Fax/letter confirmation
 - (d) Signed copy of Bid Express SBN Record of Subcontractor Outreach Effort.

c. Evaluate DBE quotes Documentation is critical if a prime does not utilize the DBE firm's quote for any reason.

- (1) Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, **a discussion with the DBE firm** regarding its capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area and/or NAICS code listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
- (2) In striving to meet an assigned DBE contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.

- (3) **Special Circumstance** - Evaluation of DBE quotes with tied bid items. "Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as 'all or none' quote to the prime." When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms' quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.
- i. Compare bid items common to both quotes, noting the reasonableness in the price comparison.
 - ii. Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.
- d. Immediately after notification of contract award, the prime submits all '**Commitment to Subcontract**' forms to the DBE Office. Prime contractor has 5 days to submit the completed form for the DBE firms it intends to use on the contract for DBE credit. If the goal is not met in full, the prime contractor must provide the following information along with WisDOT form DT1202: Certificate of Good Faith Efforts.
- (1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact.
 - (2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
 - (3) Photocopies or electronic copies of all written solicitations to DBE's. A printed copy of SBN solicitation is acceptable.
 - (4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
 - (5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.

The prime contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved Commitment to Subcontract to DBE Form [DT1506]. If the prime contractor utilizes another contractor, including the use of its own workforce, to perform the work assigned to a DBE on the approved DT1506, the prime contractor will not be entitled to payment for that work. Any changes to DBE after the approval of the DT1506 must be reviewed and approved by the DBE office prior to the change.

6. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE, a prime contractor and the regular dealer of materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE in cases where the prime has submitted the DBE and material for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
 - (1) Request should be made when the DBE Commitment form or Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
 - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
 - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
 - (4) The joint check for supplies must be strictly for the cost of supplies.
- b. DBE subcontractor is responsible to furnish and/or install the material/work item. The DBE subcontractor shall not be an 'extra participant' in the transaction; the DBE's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following.
 - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price and delivery of materials;
 - (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor,
 - (1) The prime agrees to furnish the check used for the payment of materials/supplies under the contract.
 - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractors negotiated unit price.

7. Bidder's Appeal Process

- a. A bidder can appeal the department's decision to deny the bidder's good faith effort submission. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so requested. Failure to appeal within 7 calendar days after receiving the department's written denial notice of a good faith effort evaluation constitutes a forfeiture of the bidder's right of appeal. A contract cannot be executed without documentation that the DBE provisions have been fulfilled.
- b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 5 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

8. Department's Criteria for DBE Participation

Directory of DBE firms

- a. The only resource for DBE certified firms certified in the state of Wisconsin is the Wisconsin Unified Certification Program [UCP] DBE List. Wisconsin Department of Transportation maintains a current list of certified DBE firms titled Wisconsin UCP DBE Directory on the website at:
<https://wisconsin.gov/Documents/doing-business/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE office is also available to assist at 414-438-4583 or 608-267-3849.

9. Counting DBE Participation

Assessing DBE Work

- a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:
- b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.
- c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.
- d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.
- e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.
- f. It is the prime contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE certified firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.
- g. It is the prime contractor's responsibility to assess the DBE firm's ability to perform the work for which s/he is committing/contracting the DBE to do. Note that the department encourages the prime contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.

10. Commercially Useful Function

- a. Commercially useful function is evaluated after the contract has been executed, while the DBE certified firm is performing its work items. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved.
- b. The department uses Form DT1011: DBE Commercially Useful Function Review and Certification to evaluate whether the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- c. A DBE is performing a commercially useful function if the following conditions are met:
 - (1) For contract work, the DBE is responsible for executing a distinct portion of the contract work and it is carrying out its responsibilities by actually performing, managing, and supervising that work.
 - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

11. Credit Evaluation for Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at <https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

12. Credit Evaluation for Manufacturers, Suppliers, Brokers

The department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The department will count the material and supplies that a DBE provides under the contract for DBE credit based on whether the DBE is a manufacturer, supplier or broker. Generally, DBE crediting measures and evaluates the DBE owner's role, responsibility and contribution to the transaction: maximum DBE credit when the DBE manufactures materials or supplies; DBE credit decreases when the DBE solely supplies material and minimal credit is allotted when the DBE's role is administrative or transactional.

It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

a. Manufacturers

- (1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, count **100%** percent of the cost of the materials or supplies toward DBE goals.

b. Regular Dealers of Material and/or Supplies

- (1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
- (2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
- (3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
 - i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
 - ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.

c. Brokers, Transaction Expeditors, Packagers, Manufacturers Representatives

- (1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit; however, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives or other persons who arrange or expedite transactions.
- (2) Brokerage fees have historically been calculated as **10%** of the purchase amount.
- (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site.
- (4) The evaluation will review the contract need for the item/service, review the sub-contract or invoice for the item/service, compare the fees customarily allowed for similar services to determine whether they are reasonable.

When DBE suppliers are contracted, additional documentation must accompany the DT1506 and Attachment 'A' forms. An invoice or bill-of-sale that includes the company names of the bidder and the DBE supplier and documentation of the calculations used as the basis for the purchase agreement, subcontract or invoice. *WisDOT recognizes that the amount on the Attachment 'A' form may be more or less than the amount on the invoice.* Please respond to the following questions and submit with your DBE Commitment Form.

1. What is the product or material?
2. Is this item in the prime's inventory or was the item purchased when contract was awarded?
3. Which contract line items were referenced to develop this quote?
4. What is the amount of material or product used on the project?

13. Credit Evaluation for DBE Primes

Wisconsin DOT calculates DBE credit based on the amount and type of work performed by DBE certified firms. If the prime contractor is a DBE certified firm, the department will only count the work that DBE prime contractor performs with its own forces for DBE credit. We will also calculate DBE credit for the work performed by any other DBE certified subcontractor, DBE certified supplier, DBE certified manufacturer on that contract in that DBE's approved work areas/NAICS code. Crediting for manufacturers and suppliers is calculated consistent with paragraph 12 of this document and 49 CFR Part 26.

14. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces for DBE credit.

15. Mentor Protégé

- a. If a DBE performs as a participant in a mentor protégé agreement, the department will count for credit the portion of the work performed by the DBE protégé firm.
- b. DBE credit will be evaluated and confirmed by the DBE Office for any contracts on which the mentor protégé team identifies itself to the DBE Office as a current participant of the Mentor Protégé Program.
- c. Refer to WisDOT's Mentor Protégé guidelines for guidance on the number of contracts and amount of DBE credit that can be counted on any WisDOT project.

16. DBE Replacement or Termination

Contractual Requirement

The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains written consent from the Department's DBE Office. If the Department does not provide consent to replace or terminate a DBE firm, the prime contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.

Contractor Considerations

- a. A prime contractor cannot terminate and/or replace a DBE subcontractor listed on the approved Commitment to Subcontract to DBE Form [DT1506] without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

- b. If a prime contractor feels it is necessary to replace or terminate a DBE firm that has been approved for DBE credit toward its contract, s/he will be required to provide reasons and documentation to support why the prime cannot fulfill the contractual commitment that it made to the Department regarding the DBE utilization.
- c. Prime contractor is required to make affirmative efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE that was terminated, to the extent needed to meet the assigned DBE contract goal.
- d. In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason or is terminated from a contract, the prime contractor is expected to make affirmative efforts to maintain its commitment to the assigned DBE goal.
- e. The DBE firm should communicate with the prime contractor regarding its schedule and capacity in the context of the contract. If the DBE anticipates that it cannot fulfill its subcontract, s/he shall advise the prime contractor and suggest a DBE that may replace their services or provide written consent to be released from its subcontract.
 - (1) Before the prime contractor can request to terminate or substitute a DBE firm; s/he must:
 - i. Make every effort to fulfill the DBE commitment by working with the listed DBE to ensure that they are fully knowledgeable of your expectations for successful performance on the contract. Document these efforts in writing.
 - ii. If those efforts fail, provide written notice to the DBE subcontractor of your *intent* to request to terminate and/or replace the firm including the reason(s) you want to pursue this action.
 - iii. Copy the DBE Office on all correspondence related to changing a DBE firm who has been approved for DBE credit on a contract including the preparation and coordination efforts with the DBE on the contract.
 - iv. Clearly state the amount of time the DBE firm has to remedy and/or respond to your notice of intent to replace/terminate their firm from the contract. The DBE shall be allowed five days to respond, in writing. **EXCEPTION:** The prime contractor must provide a verifiable reason for a response period shorter than five days. For example a WisDOT project manager must verify that waiting 5 days for a DBE performing traffic control work to respond would affect the public safety.
 - v. The DBE subcontractor must forward a written response to the prime contractor and copy the DBE Office. The written response must outline why it objects to the proposed termination of its subcontract and list the reasons that WisDOT should not approve the request for their firm to be replaced or removed from the contract.

The Request to Replace or Terminate a DBE

The prime contractor must provide a written request to replace or terminate a DBE firm that has been approved for DBE credit on a WisDOT contract. The written request can be an email or printed document delivered by email or fax; at minimum, the request must contain the following:

1. Contract ID number.
2. Wisconsin DOT Contract Project Manager name and contact information.
3. DBE name and work type and/or NAICS code.
4. Contract's progress schedule.
5. Reason(s) for requesting that the DBE be replaced or terminated.
6. Attach/include all communication with the DBE to deploy/address/resolve work completion,

WisDOT will review your request and any supporting documentation that you submit to evaluate whether the circumstance and the reasons constitute a good cause for replacing or terminating the DBE that was approved for DBE credit on that contract.

Examples of Good Causes to Replace a DBE according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract.
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor.
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements.
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness.
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.
- You have determined that the listed DBE subcontractor is not a responsible contractor.
- The listed DBE subcontractor voluntarily withdraws from the project and provides to you written notice of its withdrawal.
- The listed DBE is ineligible to receive DBE credit for the type of work required.
- A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract.

Evaluation and Response to the Request

If WisDOT determines that your reasons comply with the good cause standards; the DBE office will send the prime contractor and the WisDOT project manager an email stating that we concur with the reasons and approve the replacement or termination.

If WisDOT determines that your reasons do not comply with the good cause standards of the federal DBE program, the DBE Office will send the prime contractor an email that includes *the requirement* to utilize the committed DBE, *remedial actions* to support the completion of the contractual commitment, a list of available WisDOT support services *and administrative remedies that may be invoked* for failure to comply with federal DBE guidelines for DBE replacement.

The Wisconsin Department of transportation contact for all actions related to replacing a DBE is the DBE Program Chief and/or the DBE Program Engineer which can be reached at DBE_Alert@dot.wi.gov or by calling 608-267-3849.

17. DBE Utilization beyond the approved DBE Commitment Form DT1506

If the Prime/subcontractor increases the scope of work for a participating DBE or adds a DBE subcontractor that was not on the approved Form DT1506 at any time after contract award, s/he should follow these steps so that the participation can be accurately credited toward the DBE goal.

- a. Send an email to the DBE Engineer at DBE_Alert@dot.wi.gov describing the work to be performed by the new DBE including the proposed schedule or duration, DBE name and contact information. You may also call the DBE Engineer at 414-659-0487 to notify him of the change verbally.
If the scope change added work for a participating DBE; list the date and reason for the scope change.
- b. Forward a complete, signed Attachment 'A' form to the DBE Office at DBE_Alert@dot.wi.gov. A complete Attachment A includes DBE contact information, signature, subcontract value and proper description of the work areas to be performed by the DBE.
The DBE office will confirm the DBE participation and revise the DT1506 based on the email/discussion and attach the new/revised Attachment A to the Contract record/documentation.

18. Contract Modifications

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors that were committed to equal work items, in the original contract.

19. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

APPENDIX A
Sample Contractor Solicitation Letter Page 1
This sample is provided as a guide not a requirement

GFW SAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: REQUEST FOR DBE QUOTES
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but prime's alternatives are acceptable. Our office hours are include hours and days. Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx>

All questions should be directed to:

Project Manager, John Doe,

Phone: (000) 123-4567

Email: Joe@joetheplumber.com

Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTATION

Prime's Name: _____
 Letting Date: _____
 Project ID: _____

Please check all that apply

- “ Yes, we will be quoting on the projects and items listed below
- “ No, we are not interested in quoting on the letting or its items referenced below
- “ Please take our name off your monthly DBE contact list
- “ We have questions about quoting this letting. Please have someone contact me at this number

Prime Contractor 's Contact Person

 Phone: _____
 Fax: _____
 Email: _____

DBE Contractor Contact Person

 Phone _____
 Fax _____
 Email _____

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

APPENDIX B

BEST PRACTICES FOR PRIME CONTRACTOR & DBE SUBCONTRACTOR GOOD FAITH EFFORT

This list is not a set of requirements; it is a list of potential strategies

Primes

- Ø Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance.
- Ø Participate in speed networking and mosaic exercises as arranged by DBE office.
- Ø Host information sessions not directly associated with a bid letting.
- Ø Participate in a formal mentor protégé or joint venture with a DBE firm.
- Ø Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Ø Facilitate a small group DBE ‘training session’ Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods.
- Ø Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Ø Quality of communication, not quantity creates the best results. Contractors should do as thorough a job as possible in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- Ø DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Ø Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Ø Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list, and bid tabs at a minimum.
- Ø Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation-related projects of similar size and scope, firm expertise and staffing.
- Ø Participate in DBE office assessment programs.
- Ø Participate on advisory and mega-project committees.
- Ø Sign up to receive the DBE Contracting Update.
- Ø Consider membership in relevant industry or contractor organizations.
- Ø Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX C

Types of Efforts considered in determining GFE

This list represents concepts being assessed; analysis requires additional steps

1. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by WisDOT to inform DBEs of contracting and subcontracting opportunities.
2. Whether the contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract was being solicited, in sufficient time to allow the DBEs to participate effectively.
3. Whether the contractor followed up initial solicitations of interest by contacting DBEs to determine if the DBEs were interested; returned the phone calls of interested DBE firms.
4. Whether the contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goal.
5. Whether the contractor provided interested DBEs with adequate information about the plans, specifications and requirements of the contract.
6. Whether the contractor negotiated in good faith with interested DBEs, not rejected DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities.
7. Whether the contractor made efforts to assist interested DBEs in being more competitive.
8. Whether the contractor effectively used the services of available minority community organizations: minority contractors groups, local, state, and Federal minority business assistance offices, and other organizations that provide assistance to small businesses and DBE firms.
9. Whether Prime used CRCS to identify DBE who specialize in relevant work areas.
10. Whether the contractor used available resources including contacting the DBE office, using WisDOT's website
11. Whether the contractor returned calls of firms expressing interest in a timely manner.

APPENDIX D

Good Faith Effort Evaluation Guidance

Excerpt from Appendix A of 49 CFR Part 26

APPENDIX A TO PART 26 -- GUIDANCE CONCERNING GOOD FAITH EFFORTS

- I. When, as a recipient, you establish a contract goal on a DOT assisted contract, a bidder must, in order to be responsible and/or responsive, make good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.
- II. In any situation in which you have established a contract goal, part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, it is up to you to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made. The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call: meeting quantitative formulas is not required.
- III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.
- IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.
 - A. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
 - B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 - C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - D.
 - (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
 - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a

contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

- E. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non solicitation of bids in the contractor's efforts to meet the project goal.
 - F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
 - G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- V. In determining whether a bidder has made good faith efforts, you may take into account the performance of other bidders in meeting the contract. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts.

Appendix E

Small Business Network [SBN] Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription.

Within the Small Business Network, Prime Contractors can:

1. Easily select proposals, work types and items:
 - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for completion at a later time.
2. Create sub-quotes for the subcontracting community:
 - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
 - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
 - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE-preferred request.
 - d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
 - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
 - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
 - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
 - b. Easily locate pre-qualified and certified small and disadvantaged businesses.
 - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
 - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs.

1. View and reply to sub-quote requests from primes:
 - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests, or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
 - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
 - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes.
 - c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
 - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
 - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
 - c. Add attachments to a sub-quote.
 - d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime.
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to www.bidx.com and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.
 - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588.

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:

107.17.1 General

Replace paragraph seven with the following effective with the December 2018 letting:

- (7) Have a professional engineer registered in the state of Wisconsin sign and seal the shop drawings. At least 30 calendar days before starting falsework, form, or shoring construction; submit a PDF file of shop drawings to the railroad's chief engineering officer and to the engineer. The engineer and the railroad may review the shop drawings. If the engineer or the railroad finds the shop drawings unsatisfactory, the contractor shall make the required changes. A satisfactory shop drawing review does not relieve the contractor of responsibility and liability for the structural integrity and proper functioning of the falsework, forms, or shoring.
-

109.1.1 General

Replace the entire text with the following effective with the January 2019 letting:

- (1) The engineer will use the US standard system to measure all work completed under the contract. The engineer will determine quantities of materials the contractor furnishes and work the contractor performs using measurement methods and computations conforming to standard engineering practice, modified to meet department requirements. The engineer will document these measurements using department procedures.
 - (2) The engineer will measure the work as the contract measurement subsection for individual items specifies. The department will measure the actual quantities of work the contractor acceptably completes and make final payment based on those actual measured quantities except as follows:
 1. If the measurement subsection for a bid item specifically restricts the quantity measured for payment or allows for use of conversion factors.
 2. If the engineer executes a contract change order modifying the method of measurement for specific bid items, the engineer will measure the quantities of applicable bid items for payment using the change order methods.
 3. If the engineer, under 105.3.1(2), approves a contractor-requested plan dimension change between US standard and SI metric dimensions, the engineer will measure whichever of the following is less:
 - Actual quantities constructed.
 - Quantities derived from the original plan dimensions.
 4. For substitutions made under 106.2.3 between US standard and SI metric products, the engineer will measure the actual quantities of the substitute products using the original contract measuring system.
-

305.2.1 General

Replace paragraph two with the following effective with the December 2018 letting:

- (2) Where the contract specifies or allows 1 1/4-inch base, do not place reclaimed asphalt, reprocessed material, or blended materials below virgin aggregate materials unless the contract specifies or the engineer allows in writing. The department will allow virgin aggregate above reclaimed asphalt, reprocessed material, or blended materials in shoulder areas adjacent to concrete pavement.
-

420.3.2.1 General

Replace paragraph one with the following effective with the December 2018 letting:

- (1) Use self-propelled grinding machines with depth, grade, and slope controls designed for grinding and texturing concrete. Equip grinding machines with diamond blades and a vacuuming system capable of removing liquid and solid residue from the ground surface. Shroud the machine to prevent discharging loosened material into adjacent work areas or live traffic lanes. Provide the specified effective wheelbase, defined as the center of the front to center of the rear main support wheels.

420.3.2.2 Continuous Grinding

Replace paragraph one with the following effective with the December 2018 letting:

- (1) Under the Continuous Diamond Grinding Concrete Pavement bid item, ensure that the grinding machine, including the grinding head, weighs 35,000 pounds or more, will grind a strip at least 4 feet wide, and has an effective wheel base of 25 feet or more. For pavements with a design speed less than 40 miles per hour and areas difficult to access, the contractor may use equipment with an effective wheel base of 12 feet or more.
-

450.3.2.8 Jointing

Replace paragraphs three through five with the following effective with the December 2018 letting:

- (3) Construct notched wedge longitudinal joints for mainline paving if the pavement thickness conforms to the minimums specified in 460.3.2, unless the engineer directs or allows an alternate joint. Construct the wedge using a slope no steeper than 3:1. Extend the wedge 12 inches beyond the normal lane width, or as the engineer directs. Ensure that the wedge for all layers directly overlaps and slopes in the same direction.
 - (4) Locate the joint at the pavement centerline for 2-lane roadways, or at lane lines if the roadway has more than 2 lanes. Construct a vertical notch 1/2-inch to 3/4-inch high on the centerline or lane line at the top of each wedge. Place a 1/2-inch to 3/4-inch notch at the outside bottom edge of the wedge after compacting each layer. Align the finished longitudinal joint line of the upper layer with the centerline or lane line.
 - (5) Construct the wedge for each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Shape and compact the wedge with a weighted steel side roller wheel the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.
-

455.2.4.3 Emulsified Asphalts

Replace paragraph two with the following effective with the December 2018 letting:

- (2) The bill of lading for emulsified asphalts shall indicate the asphalt content of the original emulsion and dilution rate of the additional water added to the original emulsion. If undiluted samples are not available, test the diluted material and modify AASHTO M140, M208, or M316 to reflect properties resulting from dilution of the asphalt.
-

460.2.8.3.1.4 Department Verification Testing Requirements

Replace paragraph three with the following effective with the December 2018 letting:

- (3) The department will perform testing conforming to the following standards:
 - Bulk specific gravity (G_{mb}) of the compacted mixture according to AASHTO T166.
 - Maximum specific gravity (G_{mm}) according to AASHTO T209.
 - Air voids (V_a) by calculation according to AASHTO T269.
 - VMA by calculation according to AASHTO R35.
 - Asphalt content by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164, or Asphalt Analyzer™ according to manufacturer recommendations.
-

460.2.8.3.1.6 Acceptable Verification Parameters

Replace paragraph one with the following effective with the December 2018 letting:

- (1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:
 - V_a is within a range of 2.0 to 4.3 percent. For SMA, V_a is within a range of 2.7 to 5.3 percent.
 - VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.
 - Asphalt content is within minus 0.3 percent of the JMF.

460.2.8.3.1.7 Dispute Resolution

Replace paragraph one with the following effective with the December 2018 letting:

- (1) When QV test results do not meet the specified limits for 100 percent pay, the bureau's AASHTO accredited laboratory and certified personnel will referee test the retained portion of the QV sample and the retained portion of the required forward and backward QC retained samples according to CMM 8-36.

460.5.2.1 General

Replace paragraphs five and six with the following effective with the December 2018 letting:

- (5) The department will reduce pay for nonconforming QMP HMA mixtures as specified in 460.2.8.2.1.7, starting from the stop point to the point when the running average of 4 is back inside the warning limits. The engineer will determine the quantity of material subject to pay reduction based on the testing data and an inspection of the completed pavement. The department will reduce pay as follows:

PAYMENT FOR MIXTURE^{[1] [2] [3]}

ITEM	PRODUCED WITHIN WARNING BANDS	PRODUCED OUTSIDE JMF LIMITS
Gradation	90%	75%
Asphalt Content ^[4]	—	—
Air Voids	70%	50%
VMA	90%	75%

^[1] For projects or plants where the total production of each mixture design requires less than 4 tests refer to CMM 8-36.

^[2] Payment is in percent of the contract unit price for the HMA Pavement bid item. The department will reduce pay based on the nonconforming property with lowest percent pay. If the quantity of material subject to pay adjustment based on the running average of 4 is also subject to pay adjustment resulting from dispute resolution in accordance with 460.2.8.3.1.7, the department will apply the single pay adjustment resulting in the lowest percent pay.

^[3] In addition to any pay adjustment listed in the table above, the department will adjust pay for nonconforming binder under the Nonconforming QMP Asphaltic Material administrative item. The department will deduct 25 percent of the contract unit price of the HMA Pavement bid item per ton of pavement placed with nonconforming PG binder the engineer allows to remain in place.

^[4] The department will not adjust pay based on a running average of 4 asphalt content tests; however, corrective action will be applied to nonconforming material according to 460.2.8.2.1.7.

- (6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:
- Va greater than 5.0 or less than 1.5.
 - VMA more than 1.0 below the minimum allowed in table 460-1.
 - AC more than 0.5 % below the JMF target.

Remove and replace the material, or if the engineer allows the mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

506.3.2 Shop Drawings

Replace paragraph four with the following effective with the December 2018 letting:

- (4) Ensure that the fabricator submits a PDF file of shop drawings for railroad structures to the railroad company's chief engineering officer upon contract completion.

646.3.1.2 Liquid Marking

Replace paragraph five with the following effective with the January 2019 letting:

- (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
Epoxy	SMA, seal coats, and polymer overlays		25	25
Epoxy		all other	20	22.5
Wet Reflective Epoxy		all	20	18

646.3.2.3.2 Wet Reflective Epoxy

Replace paragraph five with the following effective with the January 2019 letting:

- (1) Apply wet reflective epoxy binder in a grooved slot, and provide a double drop bead system as follows:
 - First: wet reflective/recoverable elements at the application rate specified for the product chosen from the department's APL.
 - Second: glass beads at the application rate specified in 646.3.1.2(5).

650.3.1 General

Replace the entire text with the following effective with the December 2018 letting:

- (1) Department and contractor responsibilities for construction staking are specified in 105.6. Conform to 105.6 and the additional requirements specified here in 650.3 for the individual contractor-staking bid items the contract includes.
- (2) Protect and preserve known property and survey marks and land monuments as specified in 107.11.3. The contract may require related work under the 621 bid items.
- (3) Obtain or calculate benchmark data, grades, and alignment from plan information. The engineer will furnish data for the horizontal and vertical control points, control point ties, horizontal alignments, profiles, and elevations. Reestablish, set additional, and maintain the horizontal and vertical control points and control point ties, as needed for bid items.
- (4) Check horizontal and vertical information including but not limited to alignments, locations, elevations, and dimensions, that either the plans show or the engineer provides, for compatibility with existing field conditions. Conduct similar compatibility checks and accuracy checks of horizontal and vertical positions either the department or the contractor establishes in the field.
- (5) Perform survey work using conventional methods, or AMG methods capable of achieving the lines and grades the plans show for the work in question. Establish additional benchmarks and control points as necessary to support the method of operation.

650.3.1.1 Staking

- (1) Furnish, set, reference, and maintain stakes and markings necessary to establish the alignment, location, benchmarks, elevations, and continuous profile-grades for road and structure work as needed for bid items. Supervise and coordinate construction staking.
- (2) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. Make the survey notes and computations available to the engineer within 24 hours, upon request, as the work progresses.
- (3) Furnish surveying equipment, stakes, flags, pins, lath, whisks, and other materials necessary to perform this work, subject to the engineer's approval.

650.3.1.2 Automated Machine Guidance**650.3.1.2.1 General**

- (1) The contractor may substitute AMG for conventional staking on all or part of the work under the individual staking bid items. Coordinate with the engineer throughout the course of construction to ensure that work performed using AMG conforms to the contract tolerances and that the methods employed conform to the contractor's AMG work plan and accepted industry standards. Revert to conventional staking methods for all or part of the work at any point during construction if AMG is producing unacceptable results.

650.3.1.2.2 AMG Work Plan

- (1) Submit a comprehensive written AMG work plan for department review at least 5 business days before the preconstruction conference. In that plan discuss how AMG technology will be integrated into other

technologies employed on the project. List the staking bid items that will have work performed using AMG and, for each bid item listed, include the following:

1. Designate which portions of the contract will be done using AMG and which portions will be done using conventional staking.
 2. Designate a single staff person as the primary contact for AMG technology issues.
 3. List and map the primary and secondary control points required under 105.6.2 enveloping the site.
 4. Describe the contractor's quality control procedures. Include the frequency and type of checks performed to ensure that the work conforms to the contract plans.
- (2) The engineer will review the plan to determine if it conforms to the contract. Do not perform AMG work until the engineer approves the governing portion of the AMG workplan. Perform the work as the contractor's AMG work plan provides. Update the plan as necessary.

650.3.1.2.3 Geometric and Surface Information

650.3.1.2.3.1 Department Responsibilities

- (1) At any time after the contract is awarded the contractor may request the contractor data packet. The department will provide the packet within 5 business days of receiving the contractor's request.

650.3.1.2.3.2 Contractor Responsibilities

- (1) Develop and maintain a contractor construction model for areas of the project employing AMG. Confirm that the resulting model agrees with the contract plans.
- (2) If the engineer requests, provide the construction model to the department in LandXML or other engineer-approved format.

650.3.1.2.4 Managing and Updating Information

- (1) Notify the department of any errors or discrepancies in department-provided information. The department will determine what revisions may be required. The department will revise the contract plans, if necessary, to address errors or discrepancies that the contractor identifies. The department will provide the best available information related to those contract plan revisions.
- (2) Revise the construction model as required to support construction operations and to reflect any contract plan revisions the department makes. Perform checks to confirm that the revised construction model agrees with the contract plan revisions. If the engineer requests, provide construction model updates to the engineer. The department will pay for costs incurred to incorporate contract plan revisions as extra work.

650.3.1.2.5 Construction Checks

- (1) Check the work against the plan elevation at randomly selected points on cross-sections located at stations evenly divisible by 100 at the frequency the engineer approved as a part of the AMG work plan. Submit the results of these random checks to the engineer daily. Notify the engineer immediately if a check exceeds the tolerances specified in 650.3.1.2.6 below.
- (2) Check the work at additional points as the engineer directs. The department may conduct periodic independent checks.

650.3.1.2.6 Construction Tolerances

- (1) Ensure that the finished work vertically matches existing or other completed features. Ensure that the work conforms to revised plan elevations as follows:
- Subgrade : +/- 0.10 feet.
 - Base : within the tolerance specified in 301.3.4.1(2).

650.3.3 Subgrade

Retitle and replace the entire text with the following effective with the December 2018 letting:

650.3.3 Subgrade Staking

- (1) Set construction stakes or marks at intervals of 100 feet, or more frequently, for rural sections and at intervals of 50 feet, or more frequently, for urban sections. Include additional stakes at each cross-section as necessary to match the plan cross-section, achieve the required accuracy, and to support construction operations. Also set and maintain stakes as necessary to establish the horizontal and vertical positions of intersecting road radii, auxiliary lanes, horizontal and vertical curves, and curve

transitions. Locate stakes to within 0.25 feet horizontally and establish the grade elevation to within 0.03 feet vertically.

Errata

520.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

- (5) Provide joint ties on the upstream and downstream ends of circular and horizontal elliptical concrete culvert and concrete cattle pass installations. Tie the next 3 pipe joints or, if using apron endwalls, the endwall joint and the last 2 pipe joints. Ties are not required on culverts with masonry endwalls unless the plans show otherwise.
-

608.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

- (5) Provide joint ties on concrete storm sewer system infall and outfall pipes. Tie the last 3 pipe joints or, if using apron endwalls, the endwall joint and the next 2 pipe joints. Ties are not required on installations with masonry endwalls unless the plans show otherwise.

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:

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

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

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

(2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.

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

(5) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at paul.ndon@dot.wi.gov. Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:

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

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant 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 first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant 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 or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) 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;

(3) 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 offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. 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 participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant 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 or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

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).

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

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.

<https://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:

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

Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) Agreement Clauses. "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) Contractor and Subcontractor Clauses. "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT**

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS
FOR PROJECTS WITH FEDERAL AID**

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work."
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

<https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf>

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx>

III. POSTINGS AT THE SITE OF THE WORK

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

- a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

General Decision Number: WI190010 01/04/2019 WI10

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019

* BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

* BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

* BRWI0002-005 06/01/2018

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

* BRWI0003-002 06/01/2018

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

* BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

* BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

* BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

* BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

BRWI0011-002 06/01/2016		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.22	20.57

* BRWI0019-002 06/01/2018		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

* BRWI0034-002 06/01/2018		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016		

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016		

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except

area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016		

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016		

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018		

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016		

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 06/04/2018		

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0014-007 06/05/2018		

REMAINING COUNTIES

Rates	Fringes

Teledata System Installer
Installer/Technician.....\$ 26.25 13.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 32.38	18.63
Electrical contracts under \$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes

Electricians:.....	\$ 32.55	19.02

ELEC0430-002 06/01/2018

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.49

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2018

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/04/2018

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	22.10
Group 2.....	\$ 40.22	22.10
Group 3.....	\$ 39.72	22.10
Group 4.....	\$ 39.46	22.10
Group 5.....	\$ 39.17	22.10
Group 6.....	\$ 33.27	22.10

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" protection - \$3.00 per hour
EPA Level "B" protection - \$2.00 per hour
EPA Level "C" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and
extractor; heavy equipment, leadman; tank car heaters;
stump chipper; curb machine operator; Concrete
proportioning plants; generators; mudjack operator; rock
breaker; crusher or screening plant; screed (milling
machine); automatic belt conveyor and surge bin; pug mill
operator; Oiler, pump (over 3 inches); Drilling Machine
Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC,
MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO
COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST,
GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,
JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON,
MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern
area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA,
WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LAB00113-002 06/04/2018

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.88	21.76
Group 2.....	\$ 28.03	21.76
Group 3.....	\$ 28.23	21.76
Group 4.....	\$ 28.38	21.76
Group 5.....	\$ 28.53	21.76
Group 6.....	\$ 24.37	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LAB00113-003 06/04/2018

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.13	21.76
Group 2.....	\$ 27.23	21.76
Group 3.....	\$ 27.28	21.76
Group 4.....	\$ 27.48	21.76
Group 5.....	\$ 27.33	21.76
Group 6.....	\$ 24.22	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LAB00113-011 06/04/2018

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.94	21.76
Group 2.....	\$ 27.09	21.76
Group 3.....	\$ 27.29	21.76
Group 4.....	\$ 27.26	21.76
Group 5.....	\$ 27.59	21.76
Group 6.....	\$ 24.08	21.76

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LAB00140-002 06/04/2018

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.80	17.20
Group 2.....	\$ 31.90	17.20
Group 3.....	\$ 31.95	17.20
Group 4.....	\$ 32.15	17.20
Group 5.....	\$ 32.00	17.20
Group 6.....	\$ 28.43	17.20

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter

(Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LAB00464-003 06/04/2018

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.08	17..20
Group 2.....	\$ 32.18	17..20
Group 3.....	\$ 32.23	17..20
Group 4.....	\$ 32.43	17..20
Group 5.....	\$ 32.28	17..20
Group 6.....	\$ 28.43	17..20

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 28.25	17.72

PREMIUM PAY:
 Structural Steel, Spray, Bridges = \$1.00 additional per
 hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPÉALEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

August 2018

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.

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



Proposal Schedule of Items

Page 1 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

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	201.0120 Clearing	858.000 ID	_____.	_____.
0004	201.0220 Grubbing	858.000 ID	_____.	_____.
0006	204.0100 Removing Pavement	61,424.000 SY	_____.	_____.
0008	204.0105 Removing Pavement Butt Joints	2,660.000 SY	_____.	_____.
0010	204.0115 Removing Asphaltic Surface Butt Joints	440.000 SY	_____.	_____.
0012	204.0150 Removing Curb & Gutter	250.000 LF	_____.	_____.
0014	204.0155 Removing Concrete Sidewalk	12,990.000 SY	_____.	_____.
0016	204.0195 Removing Concrete Bases	13.000 EACH	_____.	_____.
0018	204.0220 Removing Inlets	27.000 EACH	_____.	_____.
0020	204.0250 Abandoning Manholes	5.000 EACH	_____.	_____.
0022	204.0260 Abandoning Inlets	55.000 EACH	_____.	_____.
0024	205.0100 Excavation Common	28,906.000 CY	_____.	_____.
0026	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	1,640.000 TON	_____.	_____.
0028	213.0100 Finishing Roadway (project) 01. 2060- 00-76	1.000 EACH	_____.	_____.
0030	213.0100 Finishing Roadway (project) 02. 2110-00- 72	1.000 EACH	_____.	_____.
0032	305.0110 Base Aggregate Dense 3/4-Inch	1,600.000 TON	_____.	_____.



Proposal Schedule of Items

Page 2 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0034	305.0120 Base Aggregate Dense 1 1/4-Inch	33,571.000 TON	_____.	_____.
0036	320.0125 Concrete Base 6-Inch	20.000 SY	_____.	_____.
0038	415.0070 Concrete Pavement 7-Inch	210.000 SY	_____.	_____.
0040	415.0085 Concrete Pavement 8 1/2-Inch	58,189.000 SY	_____.	_____.
0042	415.0090 Concrete Pavement 9-Inch	235.000 SY	_____.	_____.
0044	415.0210 Concrete Pavement Gaps	11.000 EACH	_____.	_____.
0046	416.0170 Concrete Driveway 7-Inch	690.000 SY	_____.	_____.
0048	416.0190 Concrete Driveway 9-Inch	290.000 SY	_____.	_____.
0050	416.0270 Concrete Driveway HES 7-Inch	270.000 SY	_____.	_____.
0052	416.0290 Concrete Driveway HES 9-Inch	80.000 SY	_____.	_____.
0054	416.0610 Drilled Tie Bars	865.000 EACH	_____.	_____.
0056	416.0620 Drilled Dowel Bars	98.000 EACH	_____.	_____.
0058	455.0605 Tack Coat	20.000 GAL	_____.	_____.
0060	465.0105 Asphaltic Surface	160.000 TON	_____.	_____.
0062	520.8000 Concrete Collars for Pipe	1.000 EACH	_____.	_____.
0064	601.0150 Concrete Curb Integral Type D	10,780.000 LF	_____.	_____.
0066	601.0322 Concrete Curb & Gutter 22-Inch	30.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0068	601.0331 Concrete Curb & Gutter 31-Inch	16,170.000 LF	_____.	_____.
0070	601.0600 Concrete Curb Pedestrian	90.000 LF	_____.	_____.
0072	602.0410 Concrete Sidewalk 5-Inch	94,415.000 SF	_____.	_____.
0074	602.0505 Curb Ramp Detectable Warning Field Yellow	120.000 SF	_____.	_____.
0076	602.0515 Curb Ramp Detectable Warning Field Natural Patina	740.000 SF	_____.	_____.
0078	602.1000 Concrete Loading Zone	135.000 SF	_____.	_____.
0080	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	8.000 LF	_____.	_____.
0082	611.0420 Reconstructing Manholes	1.000 EACH	_____.	_____.
0084	611.1003 Catch Basins 3-FT Diameter	1.000 EACH	_____.	_____.
0086	611.2004 Manholes 4-FT Diameter	14.000 EACH	_____.	_____.
0088	611.2005 Manholes 5-FT Diameter	1.000 EACH	_____.	_____.
0090	611.3225 Inlets 2x2.5-FT	12.000 EACH	_____.	_____.
0092	611.8115 Adjusting Inlet Covers	1.000 EACH	_____.	_____.
0094	619.1000 Mobilization	1.000 EACH	_____.	_____.
0096	620.0300 Concrete Median Sloped Nose	1,295.000 SF	_____.	_____.
0098	621.0100 Landmark Reference Monuments	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Page 4 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0100	623.0200 Dust Control Surface Treatment	56,610.000 SY	_____.	_____.
0102	624.0100 Water	200.000 MGAL	_____.	_____.
0104	625.0100 Topsoil	14,340.000 SY	_____.	_____.
0106	628.1905 Mobilizations Erosion Control	3.000 EACH	_____.	_____.
0108	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____.	_____.
0110	628.2006 Erosion Mat Urban Class I Type A	322.000 SY	_____.	_____.
0112	628.7010 Inlet Protection Type B	16.000 EACH	_____.	_____.
0114	628.7015 Inlet Protection Type C	5.000 EACH	_____.	_____.
0116	628.7020 Inlet Protection Type D	2.000 EACH	_____.	_____.
0118	629.0210 Fertilizer Type B	5.200 CWT	_____.	_____.
0120	630.0140 Seeding Mixture No. 40	5.000 LB	_____.	_____.
0122	631.1000 Sod Lawn	14,020.000 SY	_____.	_____.
0124	632.0101 Trees (species) (size) (root) 01. Common Baldcypress	12.000 EACH	_____.	_____.
0126	632.0101 Trees (species) (size) (root) 02. Upright English Oak	8.000 EACH	_____.	_____.
0128	632.0101 Trees (species) (size) (root) 03. Callery Pear	19.000 EACH	_____.	_____.
0130	632.0101 Trees (species) (size) (root) 04. Freeman Maple	22.000 EACH	_____.	_____.



Proposal Schedule of Items

Page 5 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0132	632.0101 Trees (species) (size) (root) 05. Sunburst Honey Locust	12.000 EACH	_____.	_____.
0134	632.0101 Trees (species) (size) (root) 06. Accolade Elm	14.000 EACH	_____.	_____.
0136	632.0101 Trees (species) (size) (root) 07. Japanese Tree Lilac	16.000 EACH	_____.	_____.
0138	632.0101 Trees (species) (size) (root) 08. Cumulus Serviceberry	1.000 EACH	_____.	_____.
0140	632.0101 Trees (species) (size) (root) 09. Kentucky Coffeetree	8.000 EACH	_____.	_____.
0142	632.0101 Trees (species) (size) (root) 10. American Hornbeams	14.000 EACH	_____.	_____.
0144	632.0101 Trees (species) (size) (root) 11. Concolor Spruce	1.000 EACH	_____.	_____.
0146	632.0101 Trees (species) (size) (root) 12. Double Blossom Cherry (Pink Flower)	3.000 EACH	_____.	_____.
0148	632.0101 Trees (species) (size) (root) 13. Cleveland Select Pear	3.000 EACH	_____.	_____.
0150	632.9101 Landscape Planting Surveillance and Care Cycles	10.000 EACH	_____.	_____.
0152	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	1.000 EACH	_____.	_____.
0154	637.2210 Signs Type II Reflective H	33.500 SF	_____.	_____.
0156	638.2102 Moving Signs Type II	10.000 EACH	_____.	_____.
0158	638.2602 Removing Signs Type II	2.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

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	638.3000 Removing Small Sign Supports	1.000 EACH	_____.	_____.
0162	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0164	643.0300 Traffic Control Drums	53,363.000 DAY	_____.	_____.
0166	643.0420 Traffic Control Barricades Type III	49,171.000 DAY	_____.	_____.
0168	643.0500 Traffic Control Flexible Tubular Marker Posts	536.000 EACH	_____.	_____.
0170	643.0600 Traffic Control Flexible Tubular Marker Bases	536.000 EACH	_____.	_____.
0172	643.0705 Traffic Control Warning Lights Type A	340.000 DAY	_____.	_____.
0174	643.0715 Traffic Control Warning Lights Type C	900.000 DAY	_____.	_____.
0176	643.0900 Traffic Control Signs	31,759.000 DAY	_____.	_____.
0178	643.0920 Traffic Control Covering Signs Type II	1.000 EACH	_____.	_____.
0180	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0182	644.1410.S Temporary Pedestrian Surface Asphalt	1,296.000 SF	_____.	_____.
0184	644.1420.S Temporary Pedestrian Surface Plywood	746.000 SF	_____.	_____.
0186	644.1430.S Temporary Pedestrian Surface Plate	1,360.000 SF	_____.	_____.
0188	644.1601.S Temporary Curb Ramp	6.000 EACH	_____.	_____.
0190	646.1020 Marking Line Epoxy 4-Inch	18,935.000 LF	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0192	646.5020 Marking Arrow Epoxy	13.000 EACH	_____.	_____.
0194	646.5120 Marking Word Epoxy	10.000 EACH	_____.	_____.
0196	646.5220 Marking Symbol Epoxy	64.000 EACH	_____.	_____.
0198	646.7520 Marking Crosswalk Epoxy Ladder Pattern 24-Inch	156.000 LF	_____.	_____.
0200	646.8220 Marking Island Nose Epoxy	48.000 EACH	_____.	_____.
0202	646.9210 Marking Removal Line Water Blasting Wide	374.000 LF	_____.	_____.
0204	649.0105 Temporary Marking Line Paint 4-Inch	25,916.000 LF	_____.	_____.
0206	649.0150 Temporary Marking Line Removable Tape 4-Inch	22,169.000 LF	_____.	_____.
0208	650.4000 Construction Staking Storm Sewer	102.000 EACH	_____.	_____.
0210	650.4500 Construction Staking Subgrade	14,170.000 LF	_____.	_____.
0212	650.5500 Construction Staking Curb Gutter and Curb & Gutter	529.000 LF	_____.	_____.
0214	650.7000 Construction Staking Concrete Pavement	14,677.000 LF	_____.	_____.
0216	650.8500 Construction Staking Electrical Installations (project) 01. 2060-00-76	LS	LUMP SUM	_____.
0218	650.8500 Construction Staking Electrical Installations (project) 02. 2110-00-72	LS	LUMP SUM	_____.
0220	650.9000 Construction Staking Curb Ramps	68.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0222	650.9910 Construction Staking Supplemental Control (project) 01. 2060-00-76	LS	LUMP SUM	_____.
0224	650.9910 Construction Staking Supplemental Control (project) 02. 2110-00-72	LS	LUMP SUM	_____.
0226	650.9920 Construction Staking Slope Stakes 01. 2060-00-76	7,420.000 LF	_____.	_____.
0228	652.0220 Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	155.000 LF	_____.	_____.
0230	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	427.000 LF	_____.	_____.
0232	652.0230 Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	1,388.000 LF	_____.	_____.
0234	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	12,165.000 LF	_____.	_____.
0236	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	6,905.000 LF	_____.	_____.
0238	652.0610 Conduit Special 2 1/2-Inch	44.000 LF	_____.	_____.
0240	652.0615 Conduit Special 3-Inch	1,417.000 LF	_____.	_____.
0242	652.0700.S Install Conduit into Existing Item	6.000 EACH	_____.	_____.
0244	654.0101 Concrete Bases Type 1	16.000 EACH	_____.	_____.
0246	654.0102 Concrete Bases Type 2	3.000 EACH	_____.	_____.
0248	654.0110 Concrete Bases Type 10	5.000 EACH	_____.	_____.
0250	654.0113 Concrete Bases Type 13	4.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0252	655.0230 Cable Traffic Signal 5-14 AWG	1,313.000 LF	_____.	_____.
0254	655.0260 Cable Traffic Signal 12-14 AWG	930.000 LF	_____.	_____.
0256	655.0280 Cable Traffic Signal 19-14 AWG	1,255.000 LF	_____.	_____.
0258	655.0290 Cable Traffic Signal 21-14 AWG	500.000 LF	_____.	_____.
0260	655.0305 Cable Type UF 2-12 AWG Grounded	5,865.000 LF	_____.	_____.
0262	655.0515 Electrical Wire Traffic Signals 10 AWG	834.000 LF	_____.	_____.
0264	655.0900 Traffic Signal EVP Detector Cable	1,015.000 LF	_____.	_____.
0266	657.0100 Pedestal Bases	16.000 EACH	_____.	_____.
0268	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	3.000 EACH	_____.	_____.
0270	657.0310 Poles Type 3	2.000 EACH	_____.	_____.
0272	657.0345 Poles Type 9	1.000 EACH	_____.	_____.
0274	657.0350 Poles Type 10	4.000 EACH	_____.	_____.
0276	657.0355 Poles Type 12	2.000 EACH	_____.	_____.
0278	657.0360 Poles Type 13	2.000 EACH	_____.	_____.
0280	657.0420 Traffic Signal Standards Aluminum 13-FT	1.000 EACH	_____.	_____.
0282	657.0525 Monotube Arms 25-FT	5.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0284	657.0535 Monotube Arms 35-FT	4.000 EACH	_____.	_____.
0286	657.0540 Monotube Arms 40-FT	4.000 EACH	_____.	_____.
0288	657.0545 Monotube Arms 45-FT	2.000 EACH	_____.	_____.
0290	657.0550 Monotube Arms 50-FT	2.000 EACH	_____.	_____.
0292	657.0806 Luminaire Arms Steel 6-FT	4.000 EACH	_____.	_____.
0294	658.0173 Traffic Signal Face 3S 12-Inch	22.000 EACH	_____.	_____.
0296	658.0174 Traffic Signal Face 4S 12-Inch	4.000 EACH	_____.	_____.
0298	658.0412 Pedestrian Signal Face 12-Inch	12.000 EACH	_____.	_____.
0300	658.5069 Signal Mounting Hardware (location) 01. Lincoln Avenue & 43rd St	LS	LUMP SUM	_____.
0302	658.5069 Signal Mounting Hardware (location) 02. Lincoln Avenue & 27th St	LS	LUMP SUM	_____.
0304	674.0300 Remove Cable	60.000 LF	_____.	_____.
0306	674.0400 Reinstall Cable	60.000 LF	_____.	_____.
0308	690.0150 Sawing Asphalt	1,260.000 LF	_____.	_____.
0310	690.0250 Sawing Concrete	1,737.000 LF	_____.	_____.
0312	715.0415 Incentive Strength Concrete Pavement	18,020.000 DOL	1.00000	18,020.00
0314	740.0440 Incentive IRI Ride	5,620.000 DOL	1.00000	5,620.00



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0316	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	3,000.000 HRS	5.00000	15,000.00
0318	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	4,500.000 HRS	5.00000	22,500.00
0320	SPV.0045 Special 01. Temporary Crosswalk	223.000 DAY	_____.	_____.
0322	SPV.0060 Special 01. Inlet Covers Type 57	106.000 EACH	_____.	_____.
0324	SPV.0060 Special 02. Manhole Covers Type 58A	110.000 EACH	_____.	_____.
0326	SPV.0060 Special 03. Catch Basins Type 44A	32.000 EACH	_____.	_____.
0328	SPV.0060 Special 04. Catch Basins Type 44B	2.000 EACH	_____.	_____.
0330	SPV.0060 Special 05. Catch Basins Type 45A	48.000 EACH	_____.	_____.
0332	SPV.0060 Special 06. Inlet Covers Type 55	1.000 EACH	_____.	_____.
0334	SPV.0060 Special 07. Inlet Screen Type M	99.000 EACH	_____.	_____.
0336	SPV.0060 Special 08. Inlet Screen Type R	99.000 EACH	_____.	_____.
0338	SPV.0060 Special 09. Adjusting Water Service Boxes	125.000 EACH	_____.	_____.
0340	SPV.0060 Special 10. Adjusting Water Manholes Frame and Lid	14.000 EACH	_____.	_____.
0342	SPV.0060 Special 11. Water Main Protection	26.000 EACH	_____.	_____.
0344	SPV.0060 Special 12. Poles Type-1	10.000 EACH	_____.	_____.
0346	SPV.0060 Special 13. Poles Type-3	64.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0348	SPV.0060 Special 14. Poles Type-6	4.000 EACH	_____.	_____.
0350	SPV.0060 Special 15. Poles Type-31	1.000 EACH	_____.	_____.
0352	SPV.0060 Special 16. Poles Type 12 Special	3.000 EACH	_____.	_____.
0354	SPV.0060 Special 17. Poles Type 13 Special	5.000 EACH	_____.	_____.
0356	SPV.0060 Special 18. City Precast Controller Base 36" x 21" x 20"	2.000 EACH	_____.	_____.
0358	SPV.0060 Special 19. Pull Boxes 13-Inch X 24-Inch X 24-Inch	132.000 EACH	_____.	_____.
0360	SPV.0060 Special 20. Pull Boxes 17-Inch X 30-Inch X 24-Inch	55.000 EACH	_____.	_____.
0362	SPV.0060 Special 21. Pull Boxes 17 Inch x 30 Inch x 18 Inch	8.000 EACH	_____.	_____.
0364	SPV.0060 Special 22. Water Tight Junction Box Splicing	95.000 EACH	_____.	_____.
0366	SPV.0060 Special 23. Luminaire Arm Single Member 6 Ft City-Furnished	128.000 EACH	_____.	_____.
0368	SPV.0060 Special 24. Remove Luminaire	47.000 EACH	_____.	_____.
0370	SPV.0060 Special 25. Luminaire Architectural LED 1	13.000 EACH	_____.	_____.
0372	SPV.0060 Special 26. Luminaire Architectural LED 2	10.000 EACH	_____.	_____.
0374	SPV.0060 Special 27. Luminaire Architectural LED 3	129.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0376	SPV.0060 Special 28. Luminaire Historic Milwaukee Harp LED 0	14.000 EACH	_____.	_____.
0378	SPV.0060 Special 29. Luminaire Historic Milwaukee Lantern LED 2	13.000 EACH	_____.	_____.
0380	SPV.0060 Special 30. Luminaire Utility LED 0 Wallpack	2.000 EACH	_____.	_____.
0382	SPV.0060 Special 31. Concrete Bases Type 10 Special	8.000 EACH	_____.	_____.
0384	SPV.0060 Special 32. Concrete Spread Footing	1.000 EACH	_____.	_____.
0386	SPV.0060 Special 33. Pipe Connection	1.000 EACH	_____.	_____.
0388	SPV.0060 Special 34. Utility Line Opening (ULO)	38.000 EACH	_____.	_____.
0390	SPV.0060 Special 35. Salvage Microwave Detector Assembly	3.000 EACH	_____.	_____.
0392	SPV.0060 Special 36. Install Salvaged Microwave Detector Assembly	3.000 EACH	_____.	_____.
0394	SPV.0060 Special 37. Sawing Concrete-Encased Duct Package	1.000 EACH	_____.	_____.
0396	SPV.0060 Special 38. Catmint Blue Wonder	116.000 EACH	_____.	_____.
0398	SPV.0060 Special 39. Cloud Nine Switchgrass	28.000 EACH	_____.	_____.
0400	SPV.0060 Special 40. Day Lilies	48.000 EACH	_____.	_____.
0402	SPV.0060 Special 41. Dwarf Korean Lilac	24.000 EACH	_____.	_____.
0404	SPV.0060 Special 42. Signature Bed	4.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0406	SPV.0060 Special 43. Golden American Elderberry	6.000 EACH	_____.	_____.
0408	SPV.0060 Special 44. Hosta Sum & Substance	18.000 EACH	_____.	_____.
0410	SPV.0060 Special 45. Hydrangea "Annabelle"	20.000 EACH	_____.	_____.
0412	SPV.0060 Special 46. White Cone Flower	40.000 EACH	_____.	_____.
0414	SPV.0060 Special 47. Karl Forester Grass	72.000 EACH	_____.	_____.
0416	SPV.0060 Special 48. Rose "Knockout Red"	42.000 EACH	_____.	_____.
0418	SPV.0060 Special 49. Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch	3.000 EACH	_____.	_____.
0420	SPV.0060 Special 50. Adjusting CUC Manhole Covers	6.000 EACH	_____.	_____.
0422	SPV.0060 Special 51. 4' Diameter Manhole Type CUC	8.000 EACH	_____.	_____.
0424	SPV.0060 Special 52. 4' Diameter "Doghouse" Manhole Type CUC	1.000 EACH	_____.	_____.
0426	SPV.0060 Special 53. 4' Diameter "Doghouse" Manhole Type CUC, Installed over Conduit	1.000 EACH	_____.	_____.
0428	SPV.0060 Special 54. 5' Diameter "Doghouse" Manhole Type CUC	1.000 EACH	_____.	_____.
0430	SPV.0060 Special 55. 6' Diameter "Doghouse" Manhole Type CUC, Installed over Conduit	1.000 EACH	_____.	_____.
0432	SPV.0060 Special 56. Removing CUC Manhole	2.000 EACH	_____.	_____.



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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0434	SPV.0060 Special 57. Installing Conduit Into Existing Manhole	7.000 EACH	_____.	_____.
0436	SPV.0060 Special 58. Luminaire Utility LED 3	12.000 EACH	_____.	_____.
0438	SPV.0060 Special 59. Internal Sanitary Manhole Seals	22.000 EACH	_____.	_____.
0440	SPV.0090 Special 01. Storm Sewer Pipe Corrugated PVC 12-Inch	3,648.000 LF	_____.	_____.
0442	SPV.0090 Special 02. Construction Staking Concrete Sidewalk	12,810.000 LF	_____.	_____.
0444	SPV.0090 Special 03. Liquidight Flexible Nonmetallic Conduit 1 1/2 - Inch Type B	687.000 LF	_____.	_____.
0446	SPV.0090 Special 04. Marking Crosswalk Epoxy 12-Inch	2,101.000 LF	_____.	_____.
0448	SPV.0090 Special 05. Marking Line Epoxy 6-Inch White	12,145.000 LF	_____.	_____.
0450	SPV.0090 Special 06. Marking Stop Line Epoxy 24-Inch	468.000 LF	_____.	_____.
0452	SPV.0090 Special 07. Fieldstone Boulder Wall	160.000 LF	_____.	_____.
0454	SPV.0090 Special 08. Cable Type 3#8/1#8 LTP	2,410.000 LF	_____.	_____.
0456	SPV.0090 Special 09. Cable Type 3#6/1#8 LTP	450.000 LF	_____.	_____.
0458	SPV.0090 Special 10. Cable Type 3#4/1#8 LTP	3,850.000 LF	_____.	_____.
0460	SPV.0090 Special 11. Cable Type 3#2/1#8 LTP	13,000.000 LF	_____.	_____.



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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0462	SPV.0090 Special 12. Cable Type UF 3#12 AWG With Ground	2,800.000 LF	_____.	_____.
0464	SPV.0090 Special 13. Concrete Curb & Gutter Integral 31-Inch	529.000 LF	_____.	_____.
0466	SPV.0090 Special 14. 6-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	3,013.000 LF	_____.	_____.
0468	SPV.0090 Special 15. 4-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	2,775.000 LF	_____.	_____.
0470	SPV.0090 Special 16. 3-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	10.000 LF	_____.	_____.
0472	SPV.0090 Special 17. 2-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	359.000 LF	_____.	_____.
0474	SPV.0090 Special 18. 1-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	16.000 LF	_____.	_____.
0476	SPV.0090 Special 19. Temporary Pavement Marking Paint 24 Inch White	56.000 LF	_____.	_____.
0478	SPV.0090 Special 20. Temporary Pavement Marking Tape 24 Inch White	76.000 LF	_____.	_____.
0480	SPV.0105 Special 01. Remove and Reinstall EVP Equipment, Lincoln Avenue & 43rd St	LS	LUMP SUM	_____.
0482	SPV.0105 Special 02. Remove and Reinstall EVP Equipment, Lincoln Avenue & 27th St	LS	LUMP SUM	_____.
0484	SPV.0105 Special 03. Video Vehicle Detection System, Lincoln Avenue & 43rd St	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0486	SPV.0180 Special 01. Joint Sealing	56,610.000 SY	_____.	_____.
0488	SPV.0195 Special 01. Management of Solid Waste	3,217.000 TON	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

PLEASE ATTACH SCHEDULE OF ITEMS HERE



Wisconsin Department of Transportation

March 4, 2019

**Division of Transportation Systems
Development**

Bureau of Project Development
4802 Sheboygan Avenue, Rm 601
P O Box 7916
Madison, WI 53707-7916

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of March 12, 2019

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 01, 02, 04-08, 10 – 13, 15 – 18, 20, 22 – 25, 27, 30, 33, 35 – 42, 45, 48 – 53, 55, 56, 58, 61, 62, and 64; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in proposals 20, 50, and 64; and WI 15 Heavy Davis Bacon Prevailing Wage Rates that are included in proposals 05, 06, 11, 22, 24, and 41. These wage rates are effective for all proposals they are included in in the March 12, 2019 letting. The updated wage rates are dated February 22, 2019 and are effective on or after March 4, 2019.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractors.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

General Decision Number: WI190010 02/22/2019 WI10

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018		

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018		

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

 * BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

 BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
 PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

 BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

 CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

 CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
 BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
 CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
 area bordering Michigan State Line), FOND DU LAC, FOREST,
 GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
 JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
 MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,
 MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.
 of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,
 PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN,
 ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS,
 WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
 COUNTIES

	Rates	Fringes

CARPENTER

CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes

Carpenters

Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes

CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes

CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes

PILEDRIIVERMAN

Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer Installer/Technician.....	\$ 26.25	13.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 32.38	18.63
Electrical contracts under \$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018		

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

* ELEC0430-002 01/01/2019		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.59

ELEC0494-005 06/01/2018		

MILWAUKEE, OZAUCKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018		

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2018

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

Rates	Fringes

Electricians:.....\$ 34.15 19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/04/2018

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	22.10
Group 2.....	\$ 40.22	22.10
Group 3.....	\$ 39.72	22.10
Group 4.....	\$ 39.46	22.10
Group 5.....	\$ 39.17	22.10
Group 6.....	\$ 33.27	22.10

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" protection - \$3.00 per hour
EPA Level "B" protection - \$2.00 per hour
EPA Level "C" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer;

bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LAB00113-002 06/04/2018

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.88	21.76

Group 2.....	\$ 28.03	21.76
Group 3.....	\$ 28.23	21.76
Group 4.....	\$ 28.38	21.76
Group 5.....	\$ 28.53	21.76
Group 6.....	\$ 24.37	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LAB00113-003 06/04/2018

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.13	21.76
Group 2.....	\$ 27.23	21.76
Group 3.....	\$ 27.28	21.76
Group 4.....	\$ 27.48	21.76
Group 5.....	\$ 27.33	21.76
Group 6.....	\$ 24.22	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LAB00113-011 06/04/2018

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.94	21.76
Group 2.....	\$ 27.09	21.76
Group 3.....	\$ 27.29	21.76
Group 4.....	\$ 27.26	21.76
Group 5.....	\$ 27.59	21.76
Group 6.....	\$ 24.08	21.76

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LAB00140-002 06/04/2018

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT,
CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,
DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA,
JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE,

OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE,
 RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST.
 CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN,
 WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.80	17.20
Group 2.....	\$ 31.90	17.20
Group 3.....	\$ 31.95	17.20
Group 4.....	\$ 32.15	17.20
Group 5.....	\$ 32.00	17.20
Group 6.....	\$ 28.43	17.20

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
 Demolition and Wrecking Laborer; Guard Rail, Fence, and
 Bridge Builder; Landscaper; Multiplate Culvert Assembler;
 Stone Handler; Bituminous Worker (Shoveler, Loader, and
 Utility Man); Batch Truck Dumper or Cement Handler;
 Bituminous Worker (Dumper, Ironer, Smoother and Tamper);
 Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
 (Pavement); Vibrator or Tamper Operator (Mechanical Hand
 Operated); Chain Saw Operator, Demolition Burning Torch
 Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
 (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

 LAB00464-003 06/04/2018

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.08	17..20
Group 2.....	\$ 32.18	17..20
Group 3.....	\$ 32.23	17..20
Group 4.....	\$ 32.43	17..20
Group 5.....	\$ 32.28	17..20
Group 6.....	\$ 28.43	17..20

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;

Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27
Repaint:		
Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2018		

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017		

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush.....	\$ 28.25	17.72
PREMIUM PAY:		
Structural Steel, Spray, Bridges = \$1.00 additional per		
hour.		

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017		

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....\$ 16.52 3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1,

2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: WI190008 02/22/2019 WI8

Superseded General Decision Number: WI20180008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018		

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

BRICKLAYER.....	\$ 38.03	22.55

BRWI0009-001 06/01/2018

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

* BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0013-002 06/01/2018

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

BRWI0019-002 06/01/2018

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0021-002 06/01/2018

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.24	22.15

BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys

35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016		

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016		

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016		

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018		

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

Rates	Fringes

CARPENTER.....\$ 36.15 20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

CARP2337-003 06/01/2016

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 29.98	21.53
Zone B.....	\$ 29.98	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE
(East of a line 6 miles West of the West boundary of Oconto
County), SHAWANO (Except Area North of Townships of Aniwa and

Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018		

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016		

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018		

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

* ELEC0430-002 01/01/2019		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.59

ELEC0494-005 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018		

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0577-003 06/01/2018		

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018		

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ENGI0139-003 06/04/2018		

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	21.60
Group 2.....	\$ 39.47	21.60

Group 3.....	\$ 38.17	21.60
Group 4.....	\$ 37.64	21.60
Group 5.....	\$ 35.57	21.60
Group 6.....	\$ 34.04	21.60

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour

EPA Level "B" Protection: \$2.00 per hour

EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

 ENGI0139-007 06/04/2018

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.19	21.65
Group 2.....	\$ 39.41	21.65
Group 3.....	\$ 38.46	21.65
Group 4.....	\$ 37.41	21.65
Group 5.....	\$ 36.01	21.65

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour
 EPA Level "B" Protection: \$2.00 per hour
 EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and/or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift,

25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (14S or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket); Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame and Winch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress Machines; Skid Steer Loader with or without attachments; Boiler operators (temporary heat); Forklift, 12 ft and under; Screed Operator Milling Machine; Refrigeration Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound Driver and Extractor; Generators under 150 KW; Combination small equipment operator; Compressors under 400 CFM; Welding Machines; Heaters, Mechanical; Pumps; Winches, Small Electric; Oiler and Greaser; Conveyor; High pressure utility locating machine (daylighting machine).

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.50	23.82

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LAB00113-004 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 15.11	20.65
Group 2.....	\$ 17.38	20.65
Group 3.....	\$ 20.92	20.65
Group 4.....	\$ 30.29	20.65
Group 5.....	\$ 30.43	20.65
Group 6.....	\$ 30.49	20.65
Group 7.....	\$ 32.70	20.65
Group 8.....	\$ 35.52	20.65
Group 9.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc;
Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner;
Pipe Layer; Rock Driller and Joint Man; Timber Man and
Concrete Brusher; Bracer in Trench Behind Machine & Tight
Sheeting; Concrete Formsetter and Shoveler; Jackhammer
Operator

GROUP 9: Blaster

LAB00113-005 06/04/2018

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 21.78	20.65
Group 2.....	\$ 27.71	20.65
Group 3.....	\$ 30.27	20.65
Group 4.....	\$ 32.04	20.65

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30
lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawyer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LAB00113-008 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 30.49	20.65
Group 4.....	\$ 32.70	20.65
Group 5.....	\$ 32.84	20.65
Group 6.....	\$ 35.52	20.65
Group 7.....	\$ 36.16	20.65

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

* LAB00113-009 06/04/2018

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 20.92	20.65
Group 2.....	\$ 30.43	20.65
Group 3.....	\$ 33.24	20.65
Group 4.....	\$ 34.04	20.65
Group 5.....	\$ 34.16	20.65
Group 6.....	\$ 36.86	20.65
Group 7.....	\$ 37.48	20.65

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add \$2.00 to all classifications

*Compressed Air over 30 lbs add \$3.00 to all classifications

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder & Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pielayer and Joint Man; Bracerman; Nozzle Man on Gunite; Timber Man; Concrete Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add \$0.15 per hour.

LABO0140-005 06/04/2018

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMPPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1.....	\$ 27.41	17.20

Group 2.....	\$ 29.26	17.20
Group 3.....	\$ 29.46	17.20
Group 4.....	\$ 30.21	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00,
15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form
Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB00464-002 06/04/2018

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.31	17.20
Group 2.....	\$ 29.51	17.20
Group 3.....	\$ 29.71	17.20
Group 4.....	\$ 30.46	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add
\$1.00, 15- 30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete
Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LAB01091-010 06/04/2018

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 27.10	17.20
Group 2.....	\$ 29.16	17.20
Group 3.....	\$ 29.36	17.20
Group 4.....	\$ 30.11	17.20

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:

0 - 15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add
\$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper;
Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
Joint Sawyer; Gunnite Man; Manhole Builder; Welder;
Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
Car Pusher; Raker and Luteman; Hydraulic jacking of
shields, Shield Drivers; Mining Machine; Lock Tenders;
Mucking Machine Operators; Motor Men and Gauge Tenders;
Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,

PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic.....	\$ 28.27	21.20

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the

classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material,

etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: WI190015 02/22/2019 WI15

Superseded General Decision Number: WI20180015

State: Wisconsin

Construction Type: Heavy

Counties: Wisconsin Statewide.

HEAVY CONSTRUCTION PROJECTS (Excluding Tunnel, Sewer, and Water Lines).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019
1	02/22/2019

BOIL0107-001 01/01/2017

	Rates	Fringes
BOILERMAKER		
Boilermaker.....	\$ 35.65	29.89
Small Boiler Repair (under		
25,000 lbs/hr).....	\$ 26.91	16.00

BRWI0001-002 06/01/2018

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.06	22.65

BRWI0002-002 06/01/2018		

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.87	21.26

BRWI0002-005 06/01/2018		

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,
CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.39	21.46

BRWI0003-002 06/01/2018		

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0004-002 06/01/2018		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.66	23.35

BRWI0006-002 06/01/2018		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.30	21.41

BRWI0007-002 06/01/2018		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.82	22.59

BRWI0008-002 06/01/2018		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.03	22.55

BRWI0009-001 06/01/2018		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

* BRWI0011-002 06/01/2018		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.44	22.27

BRWI0013-002 06/01/2018		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

BRWI0019-002 06/01/2018		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.97	22.74

BRWI0021-002 06/01/2018		

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 35.24	22.15

BRWI0034-002 06/01/2018		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 34.80	22.61

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

Rates	Fringes

CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

CARP2337-003 06/01/2016

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 29.98	21.53
Zone B.....	\$ 29.98	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 06/04/2018

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK
(except Maryville, Colby, Unity, Sherman, Fremont, Lynn &
Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA
CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST
CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN
COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes

Teledata System Installer

Installer/Technician.....\$ 26.25	13.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2017

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 38.50	30%+10.57

ELEC0158-002 06/04/2018

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.50	19.68

ELEC0159-003 06/01/2018

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.04	21.56

ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over		

\$180,000.....	\$ 32.38	18.63
Electrical contracts under		
\$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 36.85	26.17

ELEC0388-002 06/03/2018

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.55	19.02

* ELEC0430-002 01/01/2019

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 38.78	21.59

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 39.31	24.69

ELEC0494-006 06/01/2018

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 33.40	22.08

ELEC0494-013 06/01/2018

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 19.56	15.78
Technician.....	\$ 28.99	16.25

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 06/01/2018

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.18	18.59

ELEC0890-003 06/01/2018

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 34.15	19.63

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment		

Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

 ENGI0139-001 06/01/2018

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA
 COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 45.61	21.40
Group 2.....	\$ 45.11	21.40
Group 3.....	\$ 44.61	21.40
Group 4.....	\$ 43.92	21.40
Group 5.....	\$ 41.14	21.40
Group 6.....	\$ 35.99	21.40

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour
 EPA Level "B" Protection: \$2.00 per hour
 EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or w/o attachments with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Self-Erecting Tower Cranes over 4000 lbs lifting capacity; All Cranes with Boom Dollies; Boring Machines (directional); Master Mechanic. \$0.50 additional per hour per 100 tons or 100 ft of boom over 200 ft or lifting capacity of crane over 200 tons to a maximum of 300 tons or 300 ft. Thereafter an increase of \$0.01 per ft or ton, whichever is greater.

GROUP 2: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; or Cranes, Tower Cranes Portable Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads and/or jib lengths measuring 175 feet or less; Backhoes (excavators) 130,000 lbs and over; Caisson Rigs; Pile Drivers; Boring Machines (vertical or horizontal), Versi-Lift, Tri-Lift, Gantry 20,000 lbs & over.

GROUP 3: Backhoe (excavator) under 130,000 lbs; Self-erecting Tower Crane 4000 lbs & under lifting capacity; Traveling Crane (bridge type); Skid Rigs; Dredge Operator; Mechanic; Concrete Paver (over 27E); Concrete Spreader and Distributor; Forklift/ Telehandler (machinery- moving / steel erection); Hydro Blaster, 10,000 psi and over

GROUP 4: Material Hoists; Stack Hoists; Hydraulic Backhoe

(tractor or truck mounted); Hydraulic Crane, 5 tons or under (tractor or truck mounted); Hoist (tuggers 5 tons & over); Hydro-Excavators/Daylighters; Concrete Pumps Rotec type Conveyors; Tractor/Bulldozer/End Loader (over 40 hp); Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Rotary Drill Operator and Blaster; Percussion Drill Operator; Air Track Drill and/or Hammers; Gantry (under 20,000 lbs); Trencher (wheel type or chain type having 8 inch or larger bucket); Milling Machine; Off-Road Material Haulers.

GROUP 5: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machines (road type); Rubber Tired Roller; Concrete Batch Hopper; Concrete Conveyor Systems; Grout Pumps; Concrete Mixers (14S or over); Screw Type Pumps and Gypsum Pumps; Tractor, Bulldozer, End Loader (under 40 hp); Trencher (chain type, bucket under 8 inch); Industrial Locomotives; Rollers under 5 tons; Stump Grinder/Chipper (Large); Timber Equipment; Firemen (pile drivers and derricks); Personnel Hoist, Telehandler over 8000 lbs; Robotic Tool Carrier with or without attachments

GROUP 6: Tampers - Compactors (riding type); Assistant Engineer; A-Frames and Winch Trucks; Concrete Auto Breaker; Hydrohammers (small); Brooms and Sweepers; Hoist (tuggers under 5 tons); Boats (Tug, Safety, Work Barges, Launch); Shouldering Machine Operator; Prestress Machines; Screed Operator; Stone Crushers and Screening Plants; Screed Operators (milling machine), Farm or Industrial Tractor Mounted Equipment; Post Hole Digger; Fireman (asphalt plants); Air Compressors over 400 CFM; Generators, over 150 KW; Augers (vertical and horizontal); Air, Electric, Hydraulic Jacks (slipform); Skid Steer Loaders (with or without attachments); Boiler Operators (temporary heat); Refrigeration Plant/Freeze Machines; Power Pack Vibratory/Ultra Sound Drivers and Extractors; Welding Machines; Heaters (mechanical); Pumps; Winches (small electric); Oiler and Greaser; Rotary Drill Tender; Conveyor; Forklifts/Telehandler 8000 lbs & under; Elevators: Automatic Hoists; Pumps (well points); Combination Small Equipment Operators

 ENGI0139-003 06/04/2018

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 40.72	21.60
Group 2.....	\$ 39.47	21.60
Group 3.....	\$ 38.17	21.60
Group 4.....	\$ 37.64	21.60
Group 5.....	\$ 35.57	21.60
Group 6.....	\$ 34.04	21.60

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour

EPA Level "B" Protection: \$2.00 per hour

EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,000 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or

without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

IRON0008-002 06/01/2017

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 31.24	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2017

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.19	26.97

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2017

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 34.50	23.82

IRON0512-008 05/01/2017

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,

PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 36.50	26.45

IRON0512-021 05/01/2017

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.04	26.45

LAB00113-002 06/04/2018

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.88	21.76
Group 2.....	\$ 28.03	21.76
Group 3.....	\$ 28.23	21.76
Group 4.....	\$ 28.38	21.76
Group 5.....	\$ 28.53	21.76
Group 6.....	\$ 24.37	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LAB00113-003 06/04/2018

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.13	21.76
Group 2.....	\$ 27.23	21.76
Group 3.....	\$ 27.28	21.76
Group 4.....	\$ 27.48	21.76
Group 5.....	\$ 27.33	21.76
Group 6.....	\$ 24.22	21.76

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/04/2018

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.94	21.76
Group 2.....	\$ 27.09	21.76
Group 3.....	\$ 27.29	21.76
Group 4.....	\$ 27.26	21.76
Group 5.....	\$ 27.59	21.76
Group 6.....	\$ 24.08	21.76

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler;

Bituminous worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LAB00140-002 06/04/2018

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT,
CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR,
DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA,
JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE,
OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE,
RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST.
CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN,
WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.80	17.20
Group 2.....	\$ 31.90	17.20
Group 3.....	\$ 31.95	17.20
Group 4.....	\$ 32.15	17.20
Group 5.....	\$ 32.00	17.20
Group 6.....	\$ 28.43	17.20

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator, Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter

(Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LAB00464-003 06/04/2018

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.08	17..20
Group 2.....	\$ 32.18	17..20
Group 3.....	\$ 32.23	17..20
Group 4.....	\$ 32.43	17..20
Group 5.....	\$ 32.28	17..20
Group 6.....	\$ 28.43	17..20

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 30.33	17.27
Spray, Sandblast, Steel....	\$ 30.93	17.27

Repaint:

Brush, Roller.....	\$ 28.83	17.27
Spray, Sandblast, Steel....	\$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes

Painters:

Brush, Roller.....	\$ 33.74	18.95
Spray & Sandblast.....	\$ 34.74	18.95

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes

PAINTER.....	\$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes

PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

Painters:

Bridge.....	\$ 31.60	23.51
Brush.....	\$ 31.55	23.51
Spray & Sandblast.....	\$ 32.30	23.51

PAIN0802-002 06/01/2017

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes

PAINTER

Brush.....	\$ 28.25	17.72

PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per

hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 33.74	18.95
Spray.....	\$ 34.74	18.95
Structural Steel.....	\$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.86	12.23

PLAS0599-010 06/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,

VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA
CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

PLUM0011-003 05/07/2018

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, SAWYER, AND WASHBURN
COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 40.63	20.72

PLUM0075-002 06/01/2016

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 40.27	21.47

PLUM0075-004 06/01/2016

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, AND ROCK
COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 40.52	21.47

PLUM0075-009 06/01/2016

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 38.82	20.12

PLUM0111-007 05/28/2018

MARINETTE COUNTY (Niagara only)

	Rates	Fringes

PLUMBER/PIPEFITTER.....	\$ 33.33	24.48

PLUM0118-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
Plumber and Steamfitter.....	\$ 44.95	20.95

PLUM0400-003 06/04/2018

ADAMS, BROWN, CALUMET, DODGE (except Watertown), DOOR, FOND DU LAC, GREEN LAKE, KEWAUNEE, MANITOWOC, MARINETTE (except Niagara), MENOMINEE, OCONTO, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 36.74	19.06

PLUM0434-002 06/03/2018

BARON, BUFFALO, CHIPPEWA, CLARK, CRAWFORD, DUNN, EAU CLAIRE, FLORENCE, FOREST, GRANT, JACKSON, JUNEAU, LA CROSSE, LANGLADE, LINCOLN, MARATHON, MONROE, ONEIDA, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RUSK, ST. CROIX, TAYLOR, TREMPLEAU, VERNON, VILAS, AND WOOD COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 40.15	18.57

PLUM0601-003 06/04/2018

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, MILWAUKEE, OZAUKEE, ROCK, WASHINGTON AND WAUKESHA COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 45.52	24.54

PLUM0601-009 06/04/2017

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PIPEFITTER.....	\$ 47.08	20.89

TEAM0039-002 06/01/2018

	Rates	Fringes

TRUCK DRIVER

1 & 2 Axle Trucks.....	\$ 28.12	21.20
3 or more axles; Euclids or Dumptor, Articulated Truck, Mechanic.....	\$ 28.27	21.20

SUWI2011-001 11/16/2011

Rates	Fringes

WELL DRILLER.....\$ 16.52

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were

prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION



Wisconsin Department of Transportation

March 5, 2019

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #16: 2060-00-76, WISC 2019 158
S Chase Avenue, City of Milwaukee
Ohio Ave to Lincoln Ave
STH 38
Milwaukee County

2110-00-72, WISC 2019 160
W Lincoln Ave
Intersect with 43rd St & 27th St
Local Street
Milwaukee County

Letting March 12, 2019

This is Addendum No. 01, which provides for the following:

Special Provisions:

Added Special Provisions	
Article No.	Description
89	Notice to Contractor – On Site Crushing

Schedule of Items (2060-00-76):

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
201.0120	Clearing	ID	858	-151	707
201.0220	Grubbing	ID	858	-151	707
204.0100	Removing Pavement	SY	61,424	-2,348	59,076
204.0150	Removing Curb & Gutter	LF	250	6	256
204.0155	Removing Concrete Sidewalk	SY	12,990	-698	12,292
204.0220	Removing Inlets	EA	27	1	28
204.0260	Abandoning Inlets	EA	55	-5	50
205.0110	Excavation Common	CY	28,906	141	29,047
305.0120	Base Aggregate Dense 1-1/4-Inch	TON	33,571	-1,694	31,877
415.0085	Concrete Pavement 8.5-Inch	SY	58,189	4,188	62,377
416.0190	Concrete Driveway 9-Inch	SY	290	-7	283
416.0610	Drilled Tie Bars	EA	865	-380	485
416.0620	Drilled Dowel Bars	EA	98	380	478
465.0105	Asphaltic Surface	TON	160	175	335
601.0150	Concrete Curb Integral Type D	LF	10,780	-530	10,250
601.0331	Concrete Curb & Gutter 31-Inch	LF	16,170	-529	15,641
602.0410	Concrete Sidewalk 5-Inch	SF	94,415	-5,252	89,163
602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	740	-60	680

623.0200	Dust Control Surface Treatment	SY	56,610	-2,438	54,172
625.0100	Topsoil	SY	14,340	-198	14,142
631.1000	Sod Lawn	SY	14,020	-198	13,822
632.0101.01	Trees Common Baldcypress	EA	12	-3	9
632.0101.03	Trees Callery Pear	EA	19	-3	16
632.0101.04	Trees Freeman Maple	EA	22	-1	21
632.0101.07	Trees Japanese Tree Lilac	EA	16	-1	15
632.9101	Landscape Planting Surveillance and Care Cycles	EA	10	-9	1
638.2102	Moving Signs Type II	EA	10	4	14
643.0300	Traffic Control Drums	DAY	53,363	224	53,587
643.0420	Traffic Control Barricades Type III	DAY	49,171	448	49,619
643.0705	Traffic Control Warning Lights Type A	DAY	340	49,449	49,789
643.0715	Traffic Control Warning Lights Type C	DAY	900	51,437	52,337
643.0900	Traffic Control Signs	DAY	31,759	-224	31,535
644.1410.S	Temporary Pedestrian Surface Asphalt	SF	1,296	-616	680
644.1601.S	Temporary Curb Ramp	EA	6	-1	5
646.1020	Marking Line Epoxy 4-Inch	LF	18,935	-295	18,640
650.4500	Construction Staking Subgrade	LF	14,170	-600	13,570
650.7000	Construction Staking Concrete Pavement	LF	14,677	-600	14,077
650.9920.01	Construction Staking Slope Stakes 2060-00-76	LF	7,420	6,150	13,570
652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	12,165	-3,330	8,835
652.0335	Conduit Rigid Nonmetallic Schedule 80 3-inch	LF	6,905	-3,510	3,395
655.0305	Cable Type UF 2-12 AWG Grounded	LF	5,865	-80	5,785
690.0150	Sawing Asphalt	LF	1,260	70	1,330
SPV.0060.01	Inlet Covers Type 57	EA	106	-6	100
SPV.0060.05	Catch Basin Type 45A	EA	48	-4	44
SPV.0060.12	Poles Type-1	EA	10	-1	9
SPV.0060.13	Poles Type-3	EA	64	-2	62
SPV.0060.19	Pull Boxes 13-Inch x 24-Inch x 24-Inch	EA	132	-6	126
SPV.0060.25	Luminaire Architectural LED 1	EA	13	-2	11
SPV.0060.27	Luminaire Architectural LED 3	EA	129	-4	125
SPV.0060.50	Adjusting CUC Manhole Covers	EA	6	-1	5
SPV.0060.57	Installing Conduit Into Existing Manhole	EA	7	-1	6
SPV.0060.59	Internal Sanitary Manhole Seals	EA	22	2	24
SPV.0090.01	Storm Sewer Pipe Corrugated PVC 12-Inch	LF	3,648	-3,485	163
SPV.0090.02	Construction Staking Concrete Sidewalk	LF	12,810	-530	12,280
SPV.0090.05	Marking Line Epoxy 6-Inch White	LF	12,145	-100	12,045
SPV.0090.08	Cable Type 3#8/1#8 LTP	LF	2,410	-80	2,330
SPV.0090.11	Cable Type 3#2/1#8 LTP	LF	13,000	-240	12,760
SPV.0090.15	4-Duct Conduit, Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF	2,775	269	2,506
SPV.0090.17	2-Duct Conduit, Cement Encased 4-Inch Rigid Nonmetallic Conduit DB-60	LF	359	11	370
SPV.0180.01	Joint Sealing	SY	56,610	5,977	62,587

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
202.0110	Roadside Clearing	SY	0	85	85
204.0170	Removing Fence	LF	0	75	75
608.0512	Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	0	3,394	3,394

Plan Sheets:

Revised Plan Sheets – 2060-00-76	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
1	Title Sheet (update project limits)
4	Project Overview (update project limits)
5	Typical Section (update project limits)
10	Alignment Plan (update project limits)
12-13	Removal Plans (update project limits)
35,37,42	Construction Details (update to Drainage plan)
56-57	Plan Details (update project limits)
106-107	Erosion Control (update project limits)
120-128, 130, 132, 134-136, 138, 140- 142, 144, 146, 148	Utilities and Drainage (update project limits and pipe/manhole/inlet location adjustments)
149-150	Tree Planting and Removal (update project limits)
164-166	Permanent Signing (update project limits)
200-201, 216-217	Street Lighting (update project limits and updated design)
233-234, 240	City Underground Conduit (update project limits and updated design)
252	Pavement Marking (update project limits)
268	Traffic Control & Construction Staging (update project limits)
282- 287,289- 294, 296- 301	Miscellaneous Quantities (updates to quantities)
302-305	Plan & Profile (update project limits)
414	Cut & Fill Quantities (update project limits)

Deleted Plan Sheets – 2060-00-76	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
73-74	Intersection Detail (removed due to change in project limits)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01
2060-00-76 & 2110-00-72
March 5, 2019

Special Provisions

89. Notice to Contractor – On Site Crushing.

On-site crushing of existing pavement will be allowed on this project. Minimize dust dispersion by applying water and/or other engineer-approved dust control materials or methods. The location and dimensions of the stockpile(s) of the crushed material shall be approved by the engineer. The stockpile(s) shall not impede traffic, vehicle, or pedestrian access where required. Crushing operations shall not occur from 8:00 PM until 8:00 AM.

Any excess or unused crushed material shall be removed from the project at the contractor's expense.

Schedule of Items

Attached, dated March 5, 2019, are the revised Schedule of Items Pages 1 – 17.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

2060-00-76

Revised: Title, 4, 5, 10, 12, 13, 35, 37, 42, 56, 57, 106, 107, 120-128, 130, 132, 134-136, 138, 140-142, 144, 146, 148-150, 164-166, 200, 201, 216, 217, 233, 234, 240, 252, 268, 282-287, 289-294, 296-305, 414

Deleted: 73, 74

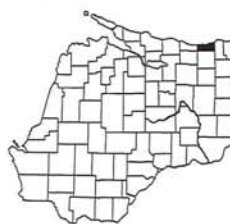
END OF ADDENDUM

STATE PROJECT	FEDERAL PROJECT
2060-00-76	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
SOUTH CHASE AVENUE - CITY OF MILWAUKEE
OHIO AVE TO LINCOLN AVE
S.T.H. 38
MILWAUKEE COUNTY

Addendum No. 01
ID 2060-00-76
Revised Sheet 1
March 5, 2019

STATE PROJECT NUMBER
2060-00-76



ORDER OF SHEETS	TITLE
SECTION NO. 1	TYPICAL SECTIONS AND DETAILS
SECTION NO. 2	ESTIMATE OF QUANTITIES
SECTION NO. 3	MISCELLANEOUS QUANTITIES
SECTION NO. 4	RIGHT-OF-WAY PLAT
SECTION NO. 5	PLAN AND PROFILE
SECTION NO. 6	STANDARD DETAIL DRAWINGS
SECTION NO. 7	SIGN PLATES
SECTION NO. 8	STRUCTURE PLANS
SECTION NO. 9	COMPUTER EARTHWORK DATA
SECTION NO. 9	CR055-SECTIONS

DESIGN DESIGNATION

A.D.T. (CURRENT)	14,200
A.D.T. (2033)	16,300
D.H.V.	1,800
D.	63%
T.	6.5%
DESIGN SPEED	40 M.P.H.
ESALS	3,024, 700

CONVENTIONAL SYMBOLS

PLAN	COUNTY LINE	TOWNSHIP OR RANGE LINE	SECTION LINE	CORPORATE OR CITY LIMITS	PROPERTY LINE	STANDARD BENCH MARK	EXISTING RIGHT OF WAY LINE	PROPOSED SEWER LATERAL	REFERENCE LINE	CONCRETE WALL/JOINT, REMOVAL	LIMITS OF CONCRETE PAVEMENT REMOVAL	RAILROADS	FENCE	CATCH BASIN OR INLET	PROFILE	GRADE LINE	ORIGINAL GROUND	GRADE ELEVATION
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

UTILITIES	CITY UNDERGROUND CONDUIT	ELECTRIC	FIBER OPTIC	GAS	SANITARY SEWER	STORM SEWER	TELEPHONE	WATER	TRAFFIC & ELECTRICAL SERVICES	MILWAUKEE METRO SEWERAGE DIST	CABLE TELEVISION	FIRE & POLICE CALL BOX	LIGHT POLE	POWER POLE	TELEPHONE OR TELEGRAPH POLE	TRAFFIC SIGNAL	TRAFFIC SIGNAL CONTROL BOX	HYDRANT	GAS OR WATER GATE VALVE	MANHOLES - SEWER	UTILITY (TYPE)	TREES - EXISTING	TO BE REMOVED
	— CUC	— E	— FO	— G	— SAN	— STO	— T	— W	— TFES	— MSD	— TV	☒	●	●	☒	☒	☒	☒	☒	☒	☒	☒	☒



END PROJECT
STA. 75+00.0, T/L

T-6-N

EXCEPTION TO NET CENTERLINE
LENGTH STA. 46+50 TO STA. 48+71
AND STA. 65+42 TO STA. 62+11

STA. 15+00.00 - S. CHASE AVE. -
STA. 100+00.00 - E. OKLAHOMA AVE.

BEGIN CONSTRUCTION
EAST OKLAHOMA AVENUE
STA. 100+00.0

R-22-E

END CONSTRUCTION
EAST OKLAHOMA AVENUE
STA. 102+64.70

BEGIN PROJECT
STA. 03+82.4, T/L
Y. = 366, 100.637
X. = 2,559,359.422

BASED ON
THE WISCONSIN STATE PLANE COORDINATE SYSTEM,
MILWAUKEE COUNTY, NAD 27 SOUTH ZONE.
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO
THE CITY OF MILWAUKEE DATUM.

TOTAL NET LENGTH OF CENTERLINE = 1.405 MI. (URBAN)

FILE NAME: WISPCCHASE.DWG;LINCOLN.TLC.DGN

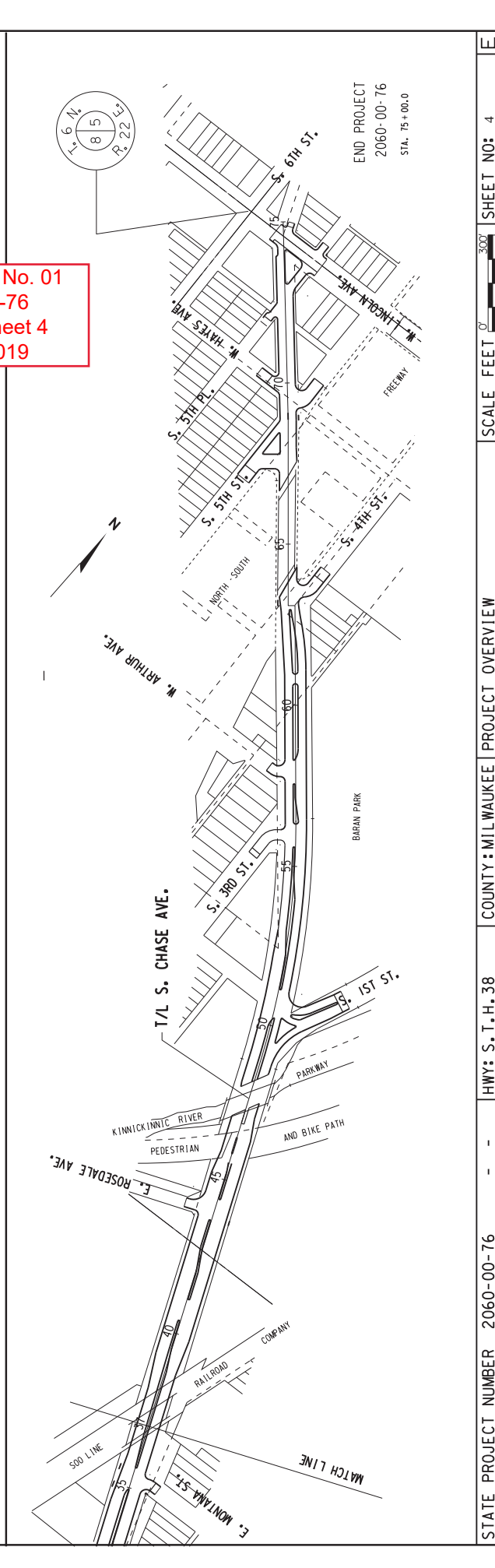
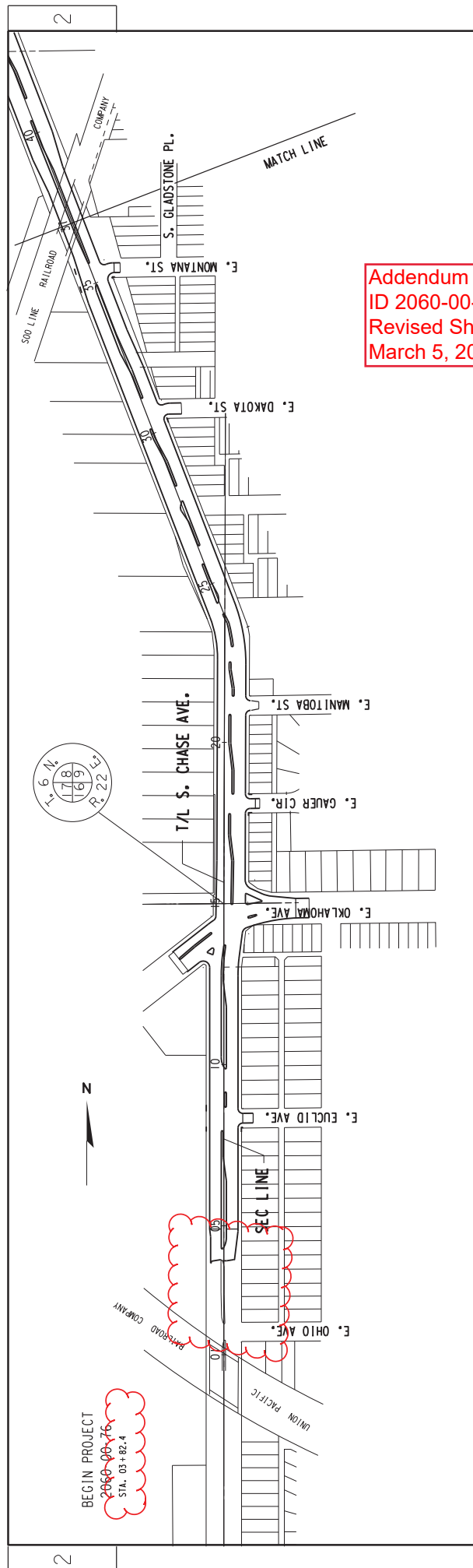
Accepted For
City of Milwaukee

Original Plans Prepared By
SAMIR M A
AMIN
E-29709
MILWAUKEE
WI
PROFESSIONAL ENGINEER
2/27/19 (Date)
City Engineer

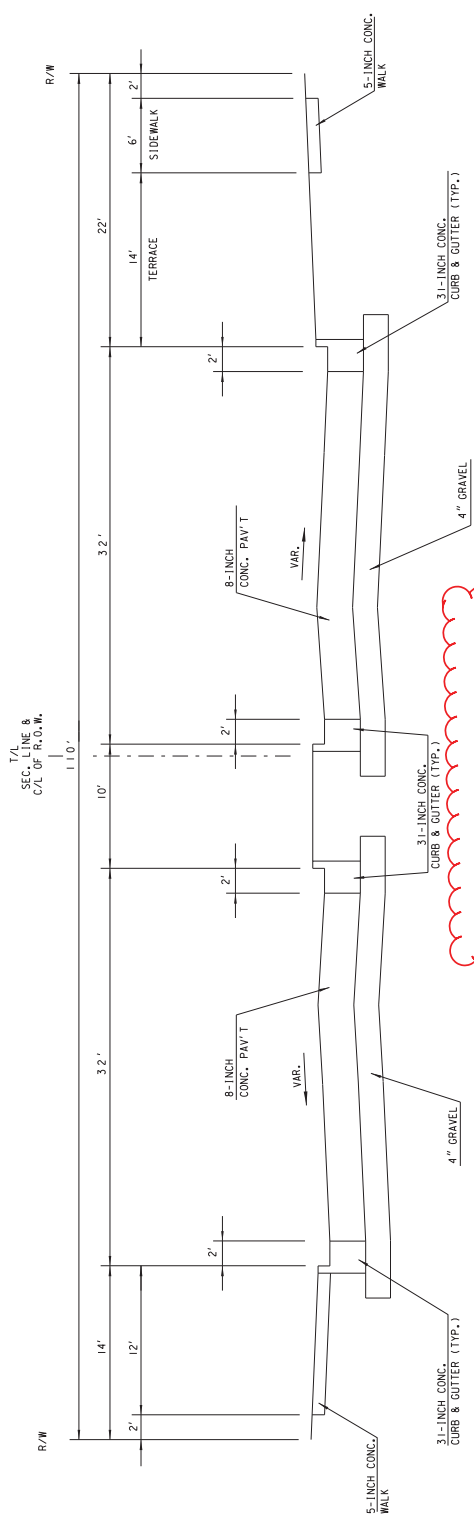
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Designer
Project Manager
Region Examiner
Region Supervisor
C.O. Examiner

APPROVED FOR THE DEPARTMENT
DATE: 2/28/19
Christine Hanna
(Signature)

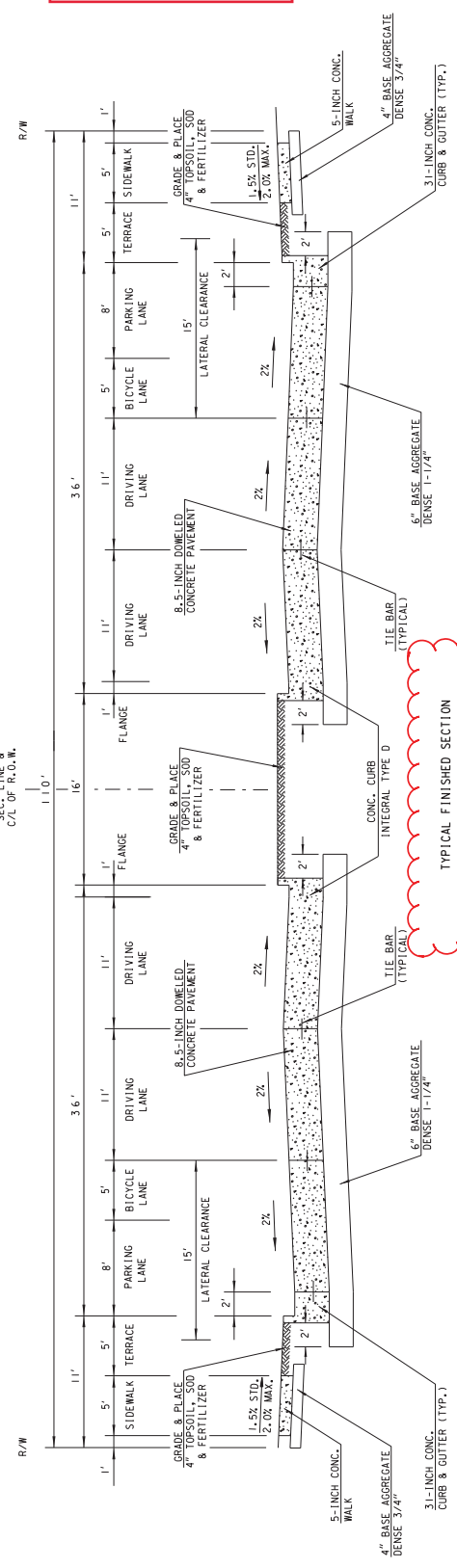


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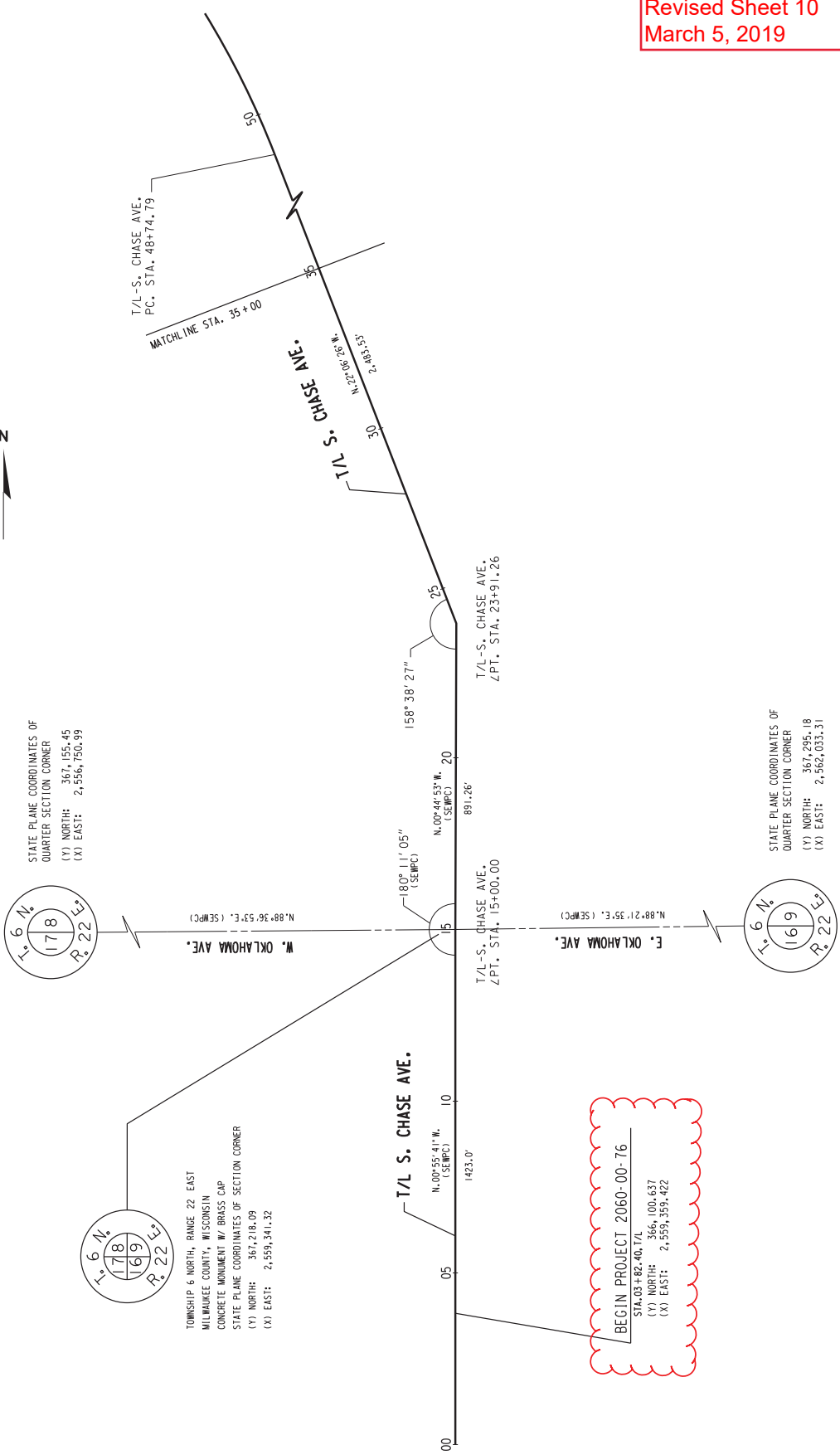


TYPICAL EXISTING SECTION
SOUTH CHASE AVENUE (STH 38)
STA. 3+82.4 TO STA. 14+50.0

Addendum No. 01
ID 2060-00-76
Revised Sheet 5
March 5, 2019



TYPICAL FINISHED SECTION
SOUTH CHASE AVENUE (STH 38)
STA. 3+82.4 TO STA. 14+50.0



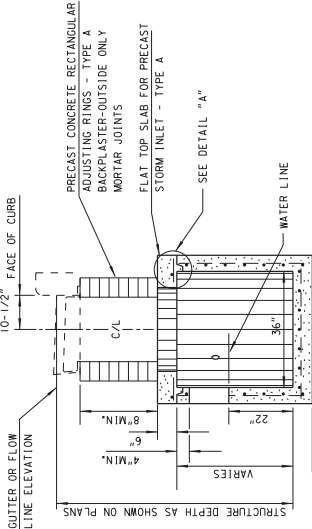
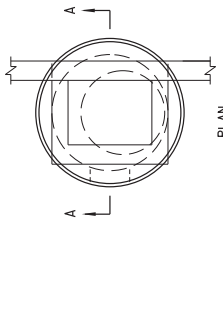
Addendum No. 01
ID 2060-00-76
Revised Sheet 10
March 5, 2019

2



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REVISED DATE: 02-26-2019 BY SB

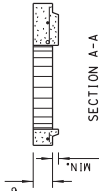
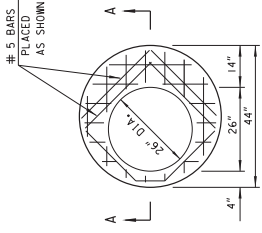




DETAIL "A"
TOP WITH TONGUE AND GROOVE JOINT
STORM INLET - TYPE 45A

GENERAL NOTES

1. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199 AND ASTM DESIGNATION C-478 AND THESE DETAILED REQUIREMENTS WHICH SHALL GOVERN WHERE THEY ALTER THE AASHTO AND ASTM STANDARDS.
2. ALL REINFORCEMENT STEEL SHALL BE GRADE 60 OR GREATER AND EMBEDDED AT LEAST 1" CLEAR.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4" IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.



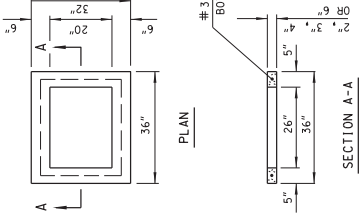
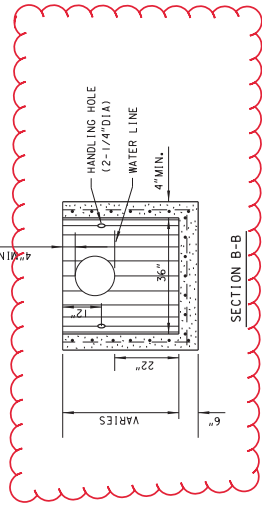
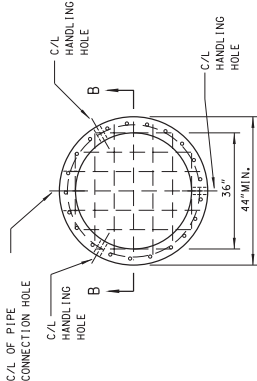
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 6" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED NEAR THE BOTTOM OF THE SLAB WITH 1" CLEAR COVER.

ADDITIONALLY, NO. 5 BARS SHALL BE PLACED AROUND TOP SLAB OPENING AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.



THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

RECTANGULAR ADJUSTING RING - TYPE A

CIRCUMFERENTIAL AND LONGITUDINAL REINFORCEMENT IN THE RISER SECTION SHALL EACH CONSIST OF ONE LAYER OF STEEL NOT LESS THAN 0.12 SQ. IN. PER FOOT AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

THE BASE SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER FOOT IN BOTH DIRECTIONS, PLACED ABOVE THE MIDPOINT OF THE SLAB.

RISER SECTION AND BASE SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

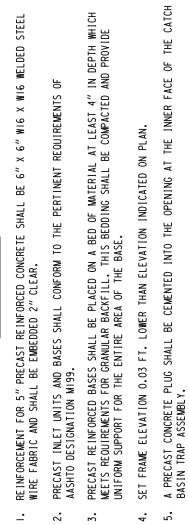
TWO TO THREE HANDLING HOLES 2-1/4" IN DIAMETER AND A PIPE CONNECTION HOLE SHALL BE CAST OR CURED IN THE RISER SECTION AT THE LOCATIONS SHOWN. LIFTING DEVICES MAY BE SUBSTITUTED FOR HANDLING HOLES.

NO JOINTS OR HOLES SHALL BE BELOW THE WATERLINE.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.

RISER SECTION MAY TAPER TO A 33" INTERNAL DIAMETER AT IT'S BOTTOM PROVIDED A 44" MINIMUM OUTSIDE DIAMETER IS MAINTAINED.

Addendum No. 01
ID 2060-00-76
Revised Sheet 35
March 5, 2019



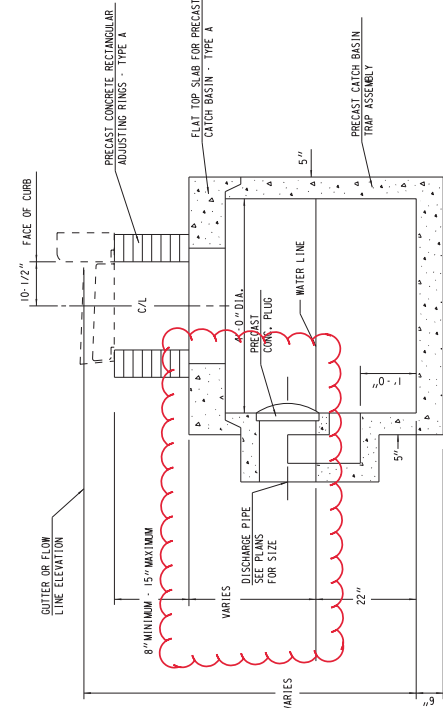
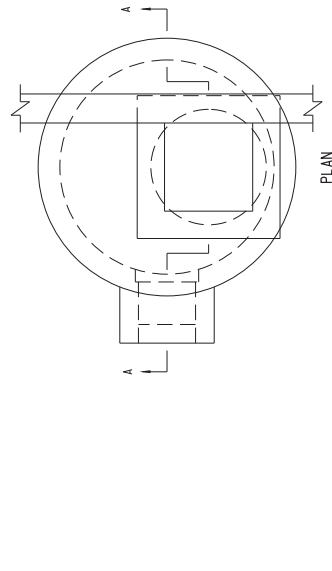
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.



SECTION A-A

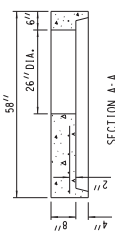
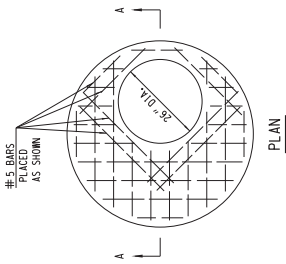
TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.



SECTION A-A
CATCH BASIN - TYPE 44B

GENERAL NOTES

1. REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" #16 X #16 WELDED STEEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.
2. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION W59.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4" IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.
5. A PRECAST CONCRETE PLUG SHALL BE EMBEDDED INTO THE OPENING AT THE INNER FACE OF THE CATCH BASIN TRAP ASSEMBLY.



SECTION A-A
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 8" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS. PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

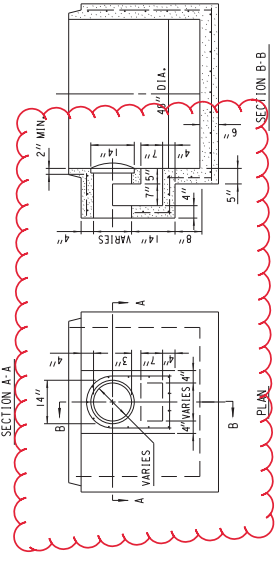
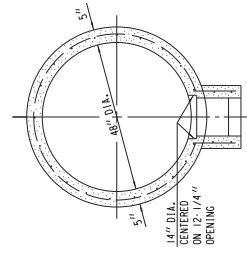
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL REINFORCEMENT WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

TRAP ASSEMBLY SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS. PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

CIRCUMFERENTIAL AND TRAP ASSEMBLY REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

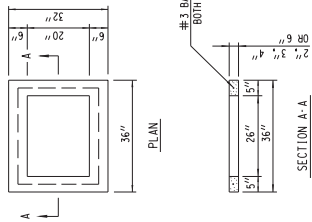
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

TWO HANDLING HOLES 2 1/4" IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.



SECTION A-A
TRAP ASSEMBLY

THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



RECTANGULAR ADJUSTING RING - TYPE A

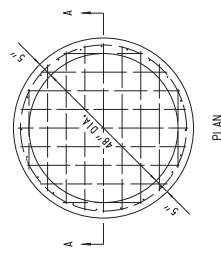
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL REINFORCEMENT WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

BOTTOM SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS. PLACED IN THE CENTER THIRD OF THE SLAB.

CIRCUMFERENTIAL AND BOTTOM SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

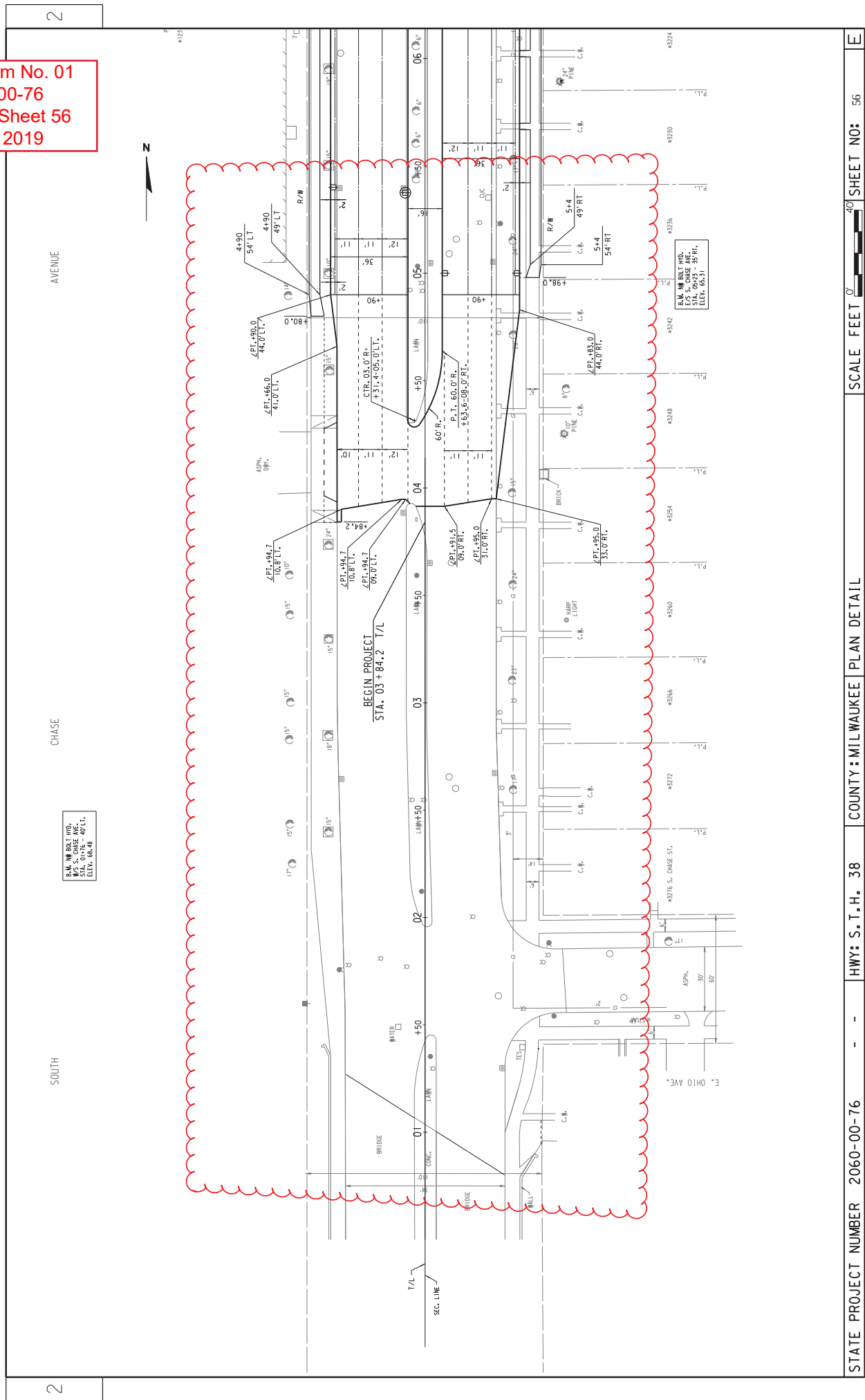
TWO HANDLING HOLES 2 1/4" IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.

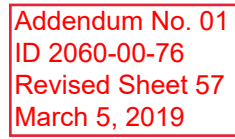


BOTTOM REINFORCEMENT

Addendum No. 01
ID 2060-00-76
Revised Sheet 42
March 5, 2019

Addendum No. 01
ID 2060-00-76
Revised Sheet 56
March 5, 2019





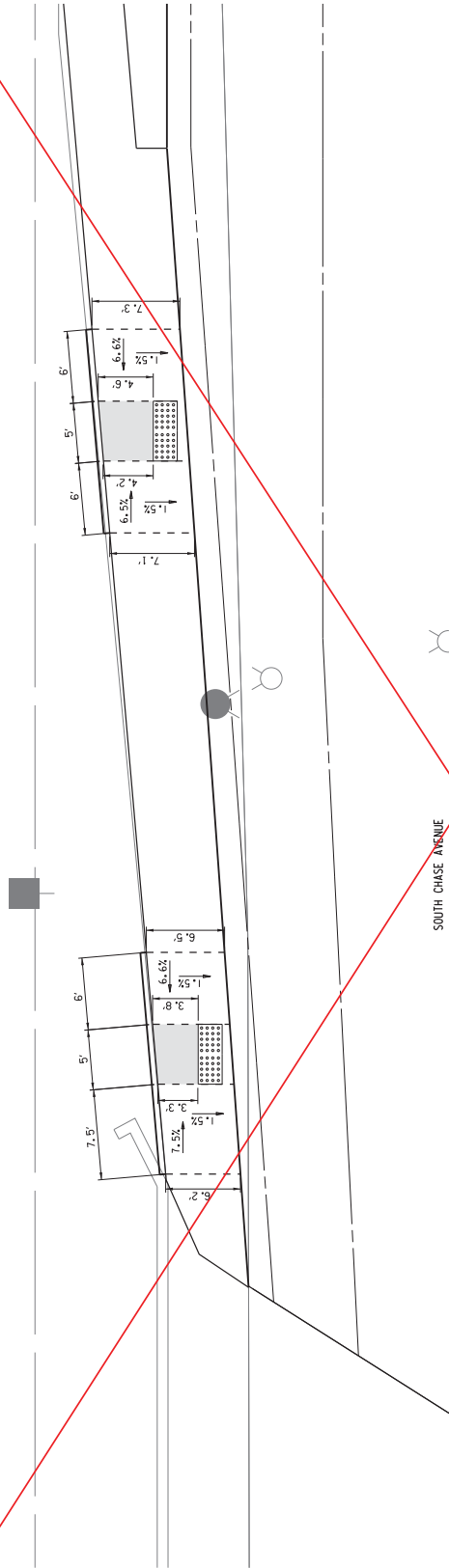
COUNTY:MILWAUKEE INTERSECTION DETAILS

STATE PROJECT NUMBER 2060-00-76

FILENAME: \\FSRCHASE-01\O.LINCOLN\RAMPET\ALLSVL\OHIO.DGN
REVISED DATE: 11-01-2018 BY SB

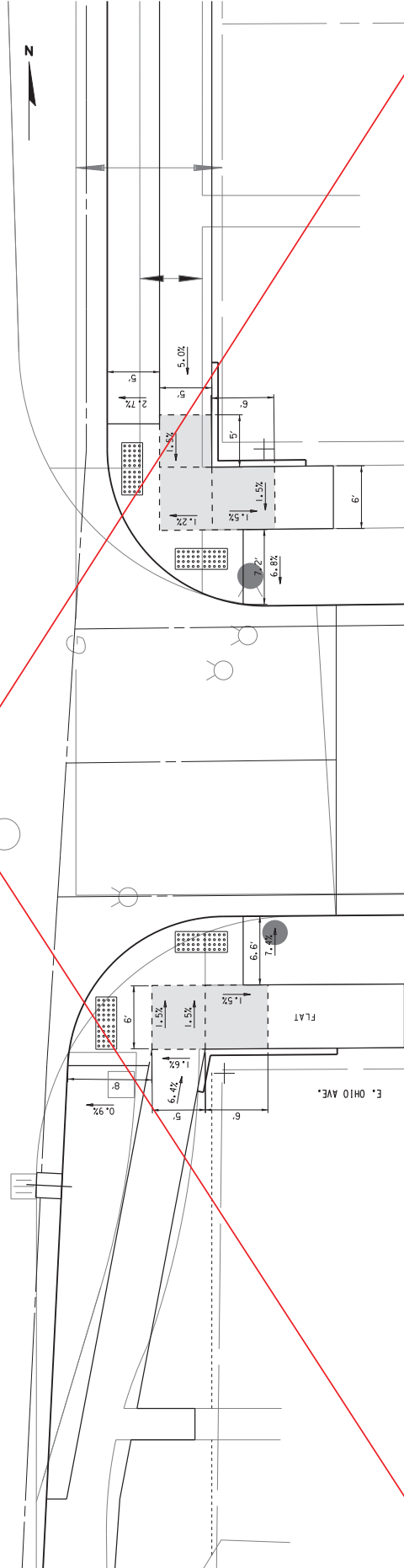


Addendum No. 01
ID 2060-00-76
Deleted Sheet 74
March 5, 2019



SOUTH CHASE AVENUE

SOUTH CHASE AVENUE

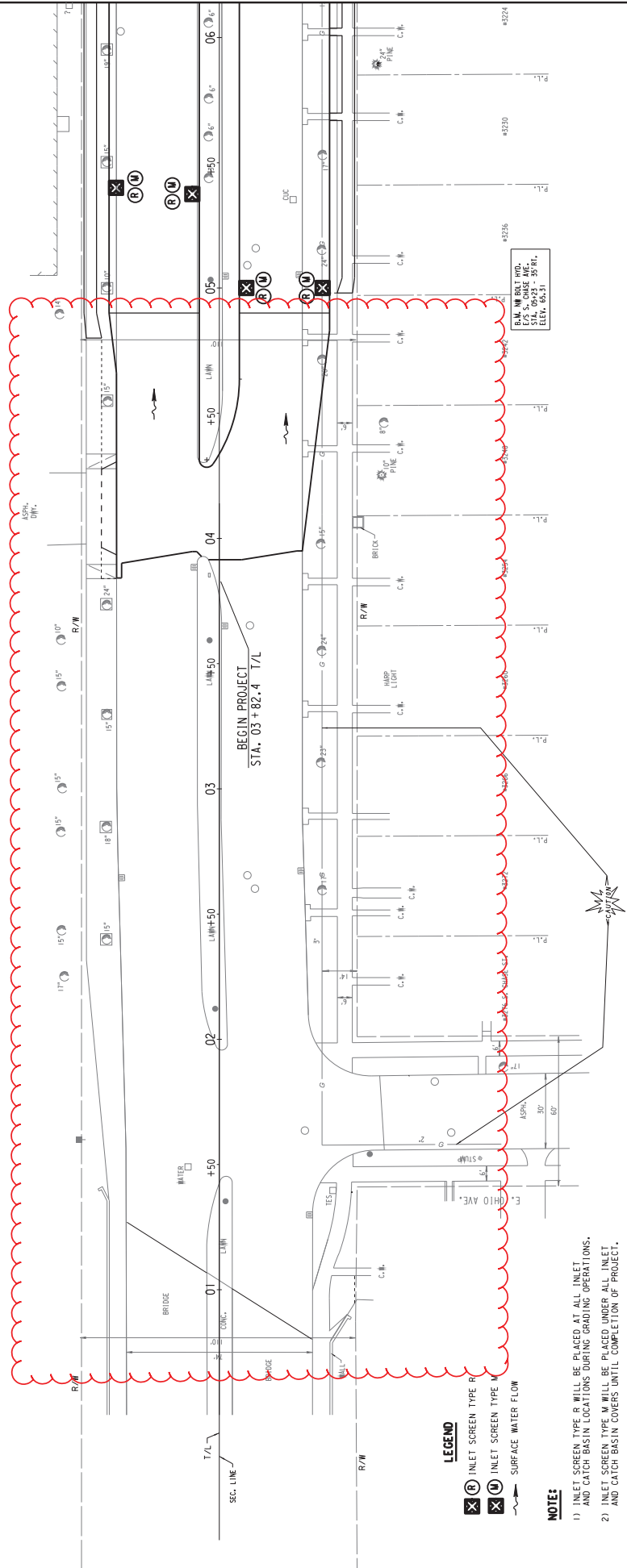


E. OHIO AVE.

FLAT

Addendum No. 01
ID 2060-00-76
Revised Sheet 106
March 5, 2019

R.M. HWY BOLT RD.
875 S. CHASE AVE.
STATION 0+00 - 40+11
ELEV. 668.48



LEGEND

- INLET SCREEN TYPE R
- INLET SCREEN TYPE M
- SURFACE WATER FLOW

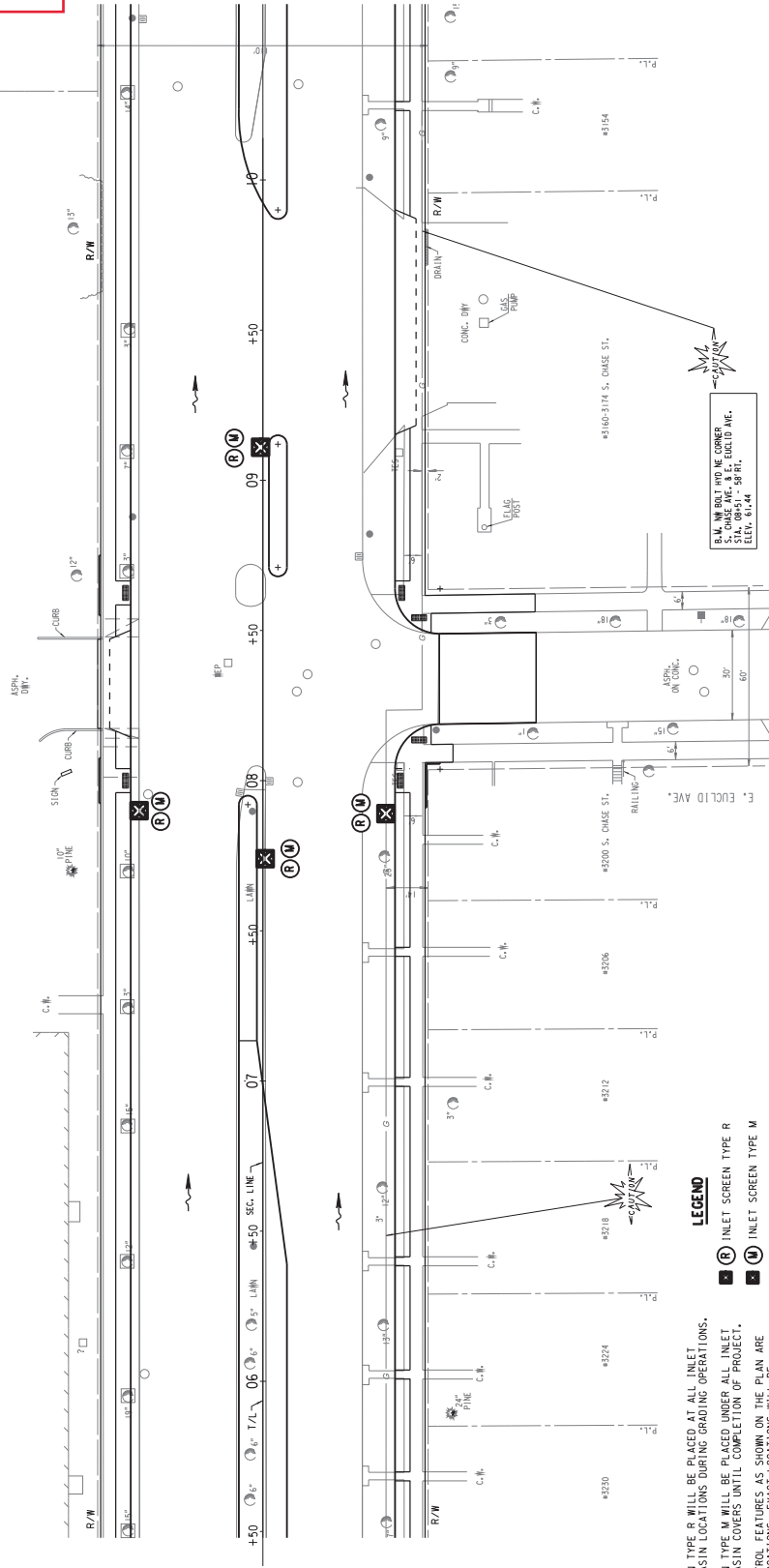
NOTE:

- 1) INLET SCREEN TYPE R WILL BE PLACED AT ALL INLET AND CATCH BASIN LOCATIONS DURING GRADING OPERATIONS.
- 2) INLET SCREEN TYPE M WILL BE PLACED UNDER ALL INLET AND CATCH BASIN COVERS UNTIL COMPLETION OF PROJECT.
- 3) EROSION CONTROL FEATURES AS SHOWN ON THE PLAN ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 4) SEE CONSTRUCTION DETAILS.

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ID 2060-00-76
Revised Sheet 107
March 5, 2019



PIGGY MUGGY
GROCERY
#123 N. MILWAUKEE AVE.



NOTE:

- 1) INLET SCREEN TYPE R WILL BE PLACED AT ALL INLET AND CATCH BASIN LOCATIONS DURING GRADING OPERATIONS.
- 2) INLET SCREEN TYPE M WILL BE PLACED UNDER ALL INLET AND CATCH BASIN COVERS UNTIL COMPLETION OF PROJECT.
- 3) EROSION CONTROL FEATURES AS SHOWN ON THE PLAN ARE SUGGESTED LOCATIONS; EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 4) SEE CONSTRUCTION DETAILS.

LEGEND

- INLET SCREEN TYPE R
- INLET SCREEN TYPE M
- SURFACE WATER FLOW

2 OF 14

STATE PROJECT NUMBER 2060-00-76

HWY: S.T.H. 38

COUNTY: MILWAUKEE

EROSION CONTROL PLAN

SCALE FEET 40'

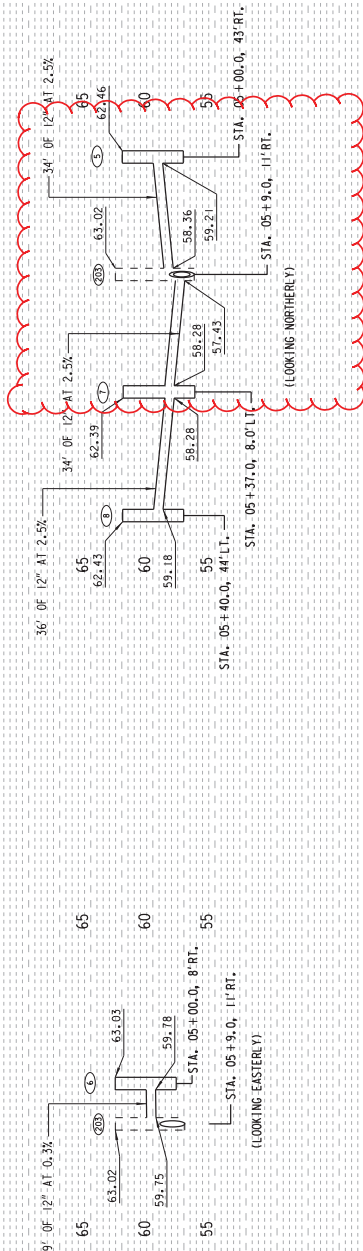
SHEET NO: 107

E

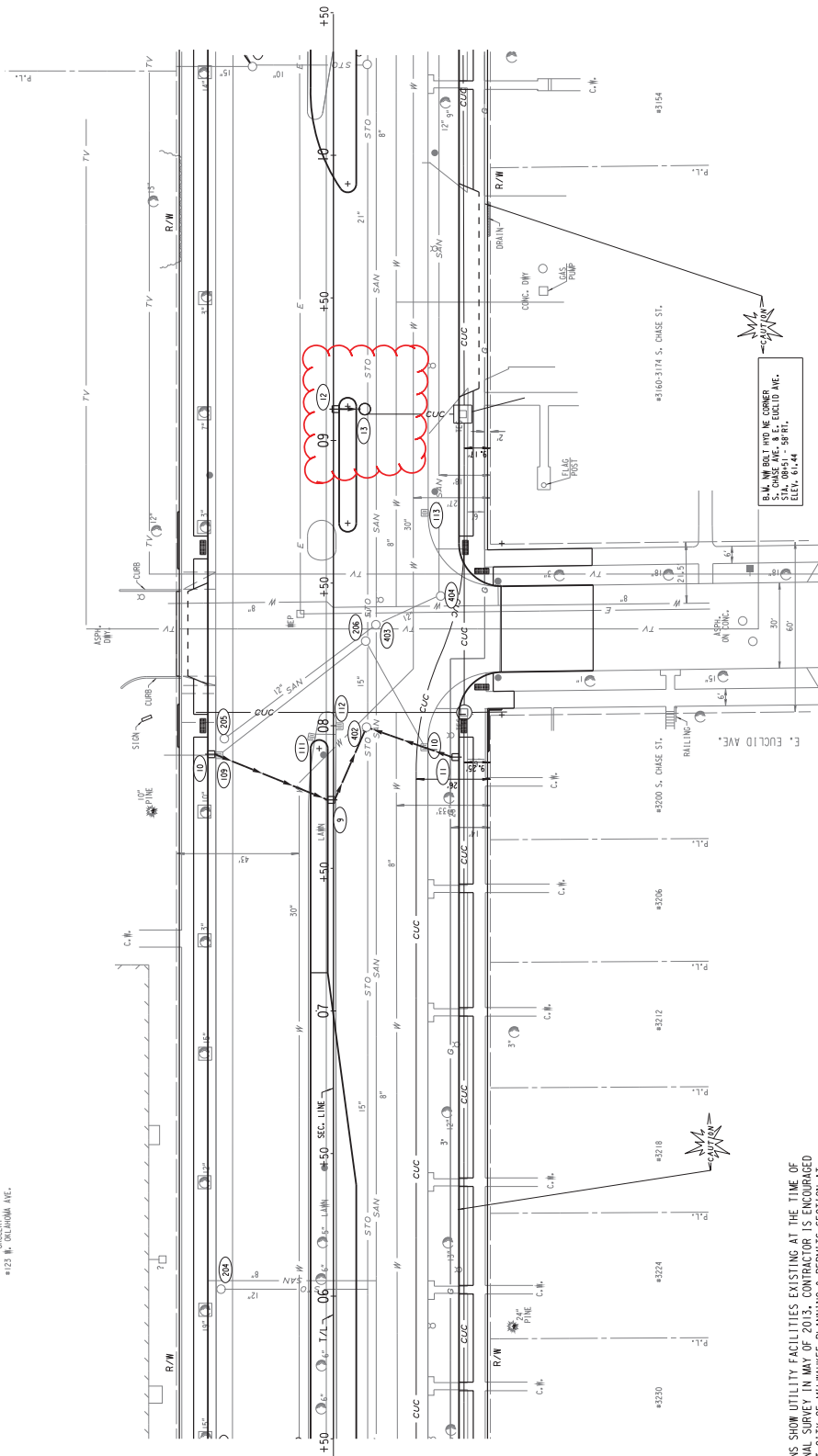
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REVISID: 02-28-2019 BY SB

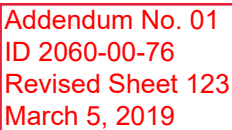


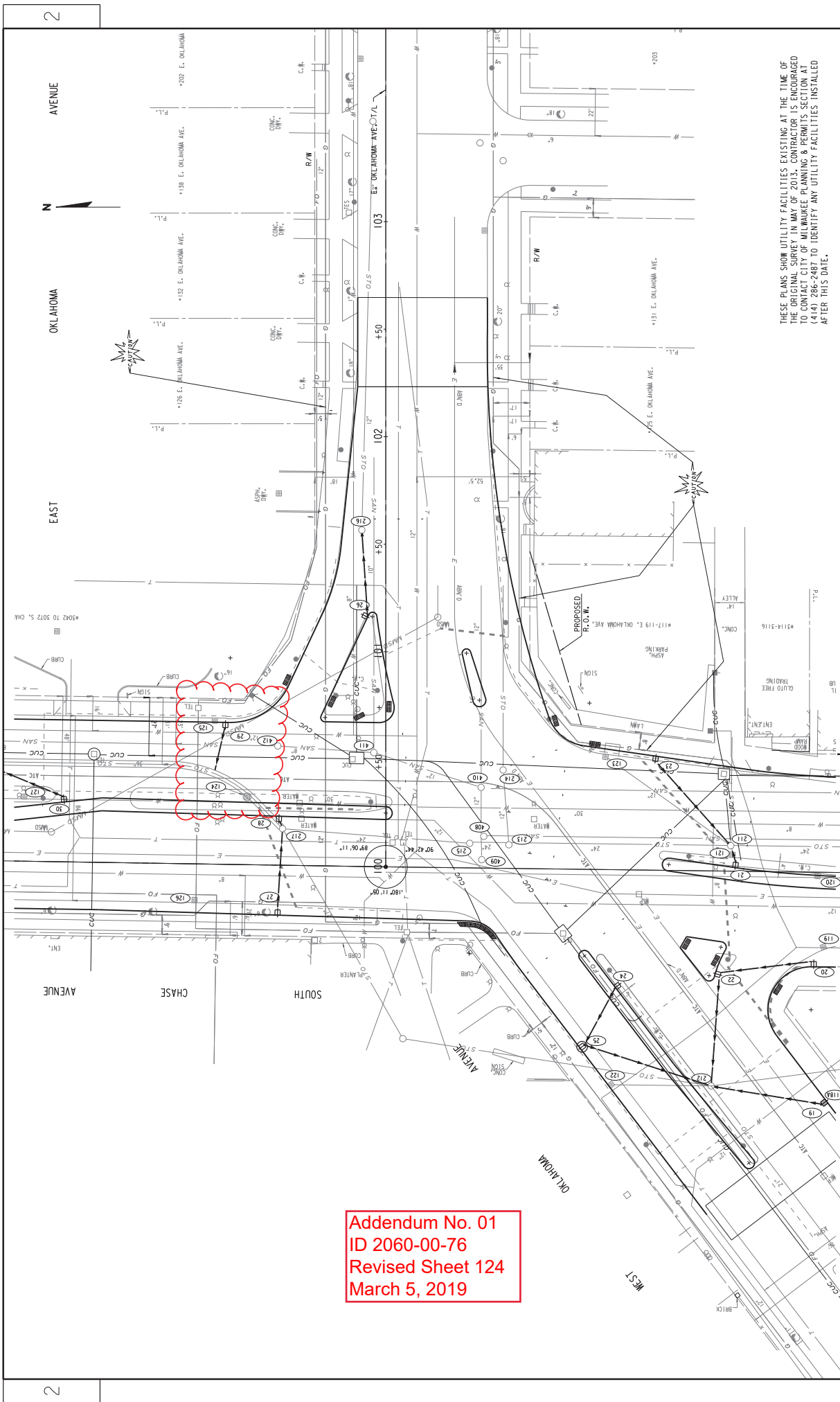
Addendum No. 01
ID 2060-00-76
Revised Sheet 121
March 5, 2019



THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN MAY OF 2013. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

Addendum No. 01
ID 2060-00-76
Revised Sheet 122
March 5, 2019





Addendum No. 01
ID 2060-00-76
Revised Sheet 124
March 5, 2019

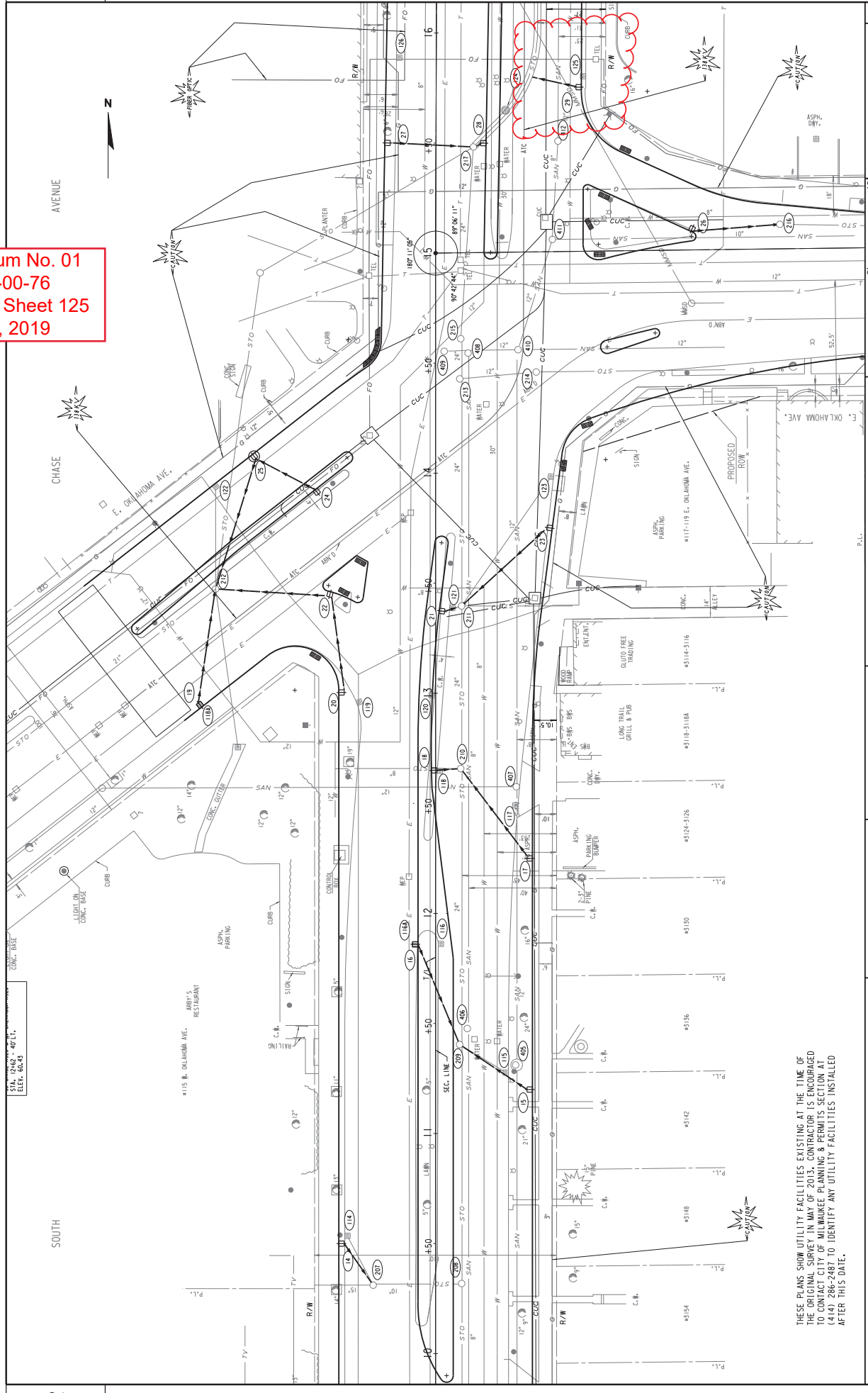
THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN MAY OF 2013. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

STA. 1948+00 TO 40+00
ELEV. 60.43

CHASE

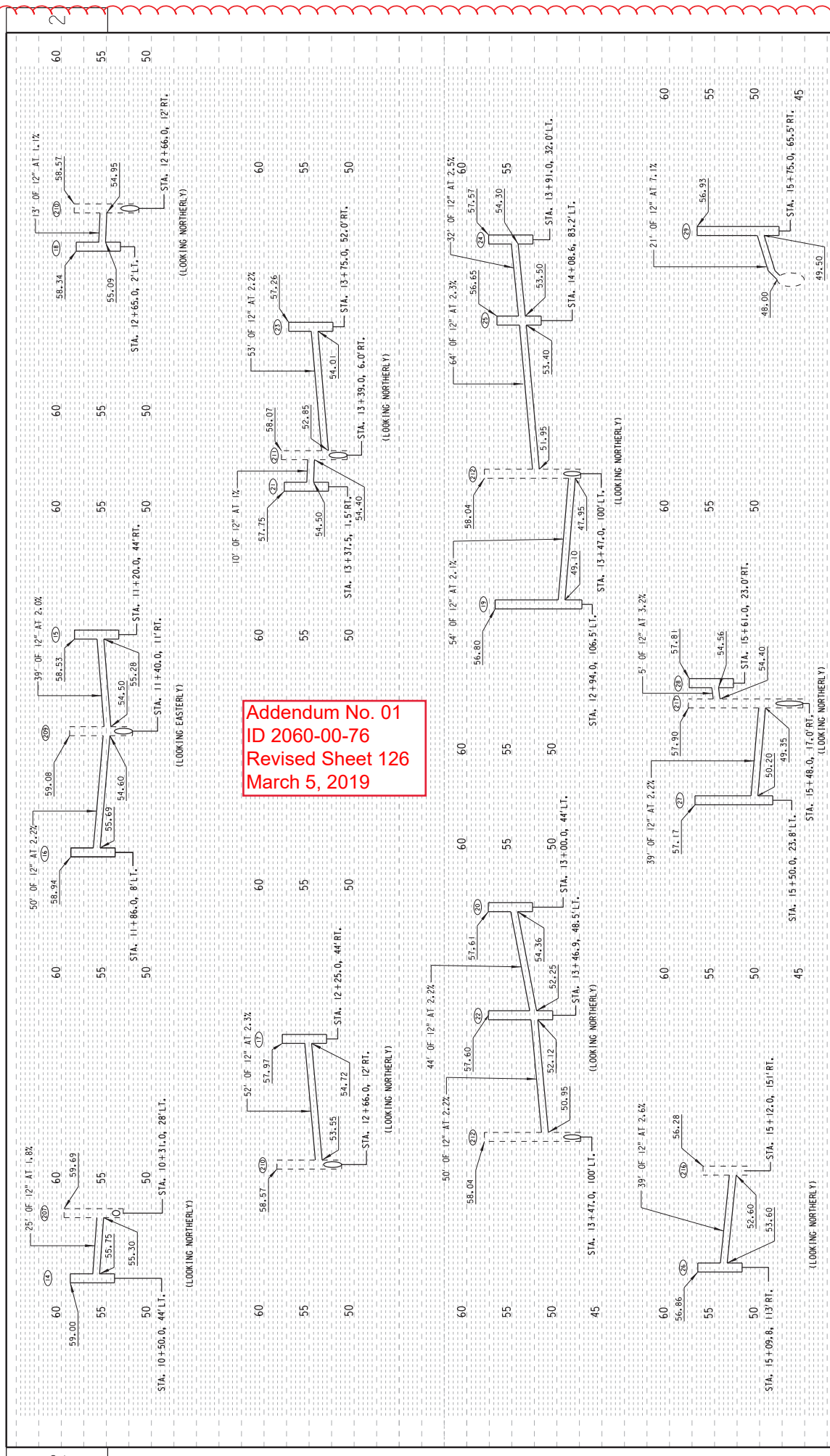
AVENUE

Addendum No. 01
ID 2060-00-76
Revised Sheet 125
March 5, 2019



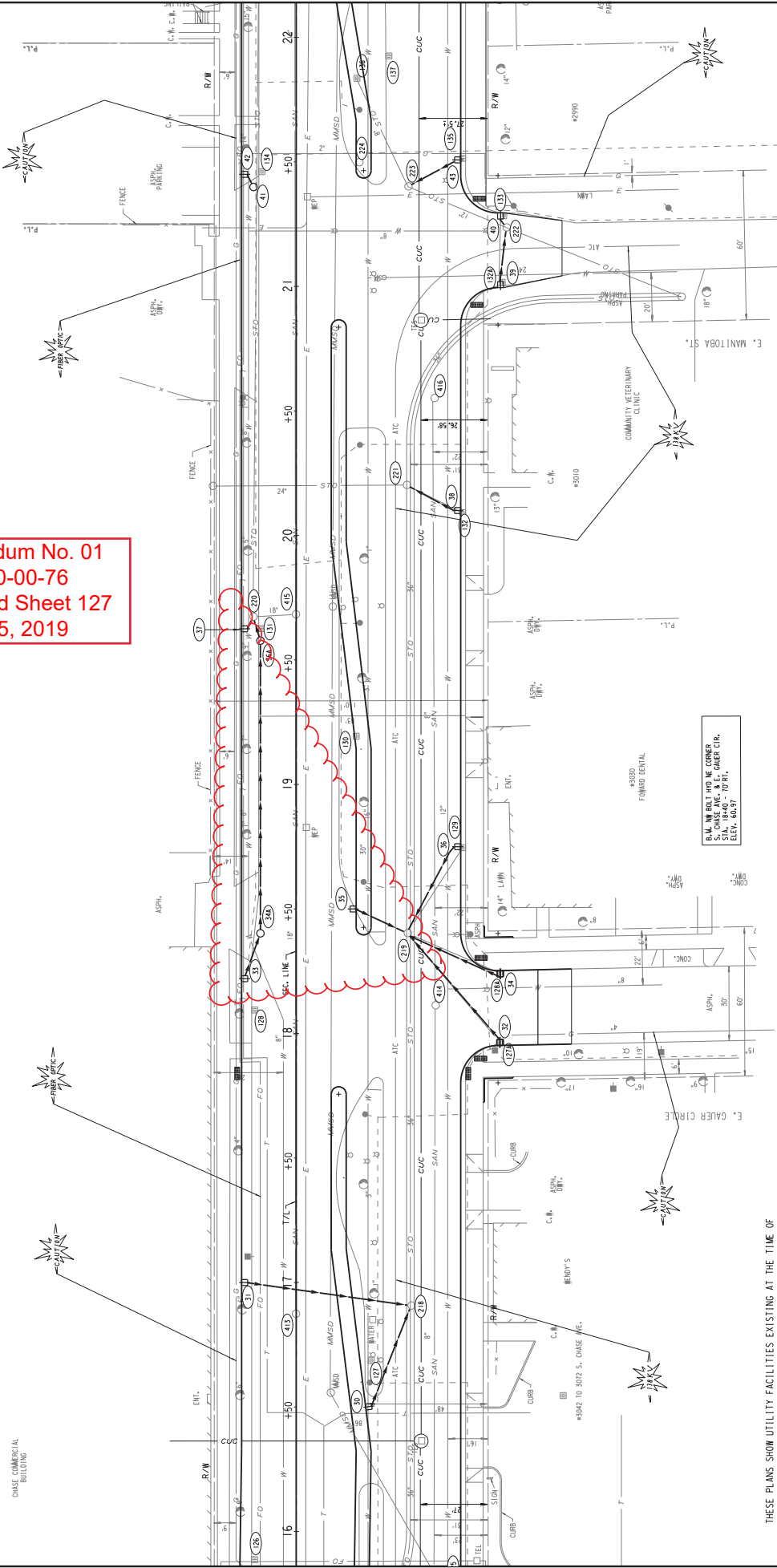
THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN MAY OF 2013. CONTRACTORS ARE ENCOURAGED TO CONDUCT FIELD VERIFICATION OF ALL UTILITY LOCATIONS AND DEPTHS (CUTS 286-2487) TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

STATE PROJECT NUMBER	2060-00-76	HWY: S.T.H. 38	COUNTY: MILWAUKEE	UTILITIES AND DRAINAGE	SCALE	FEET	SHEET NO: 125	E

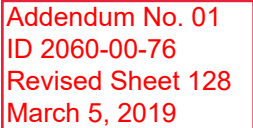


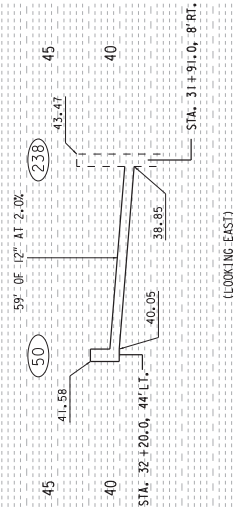
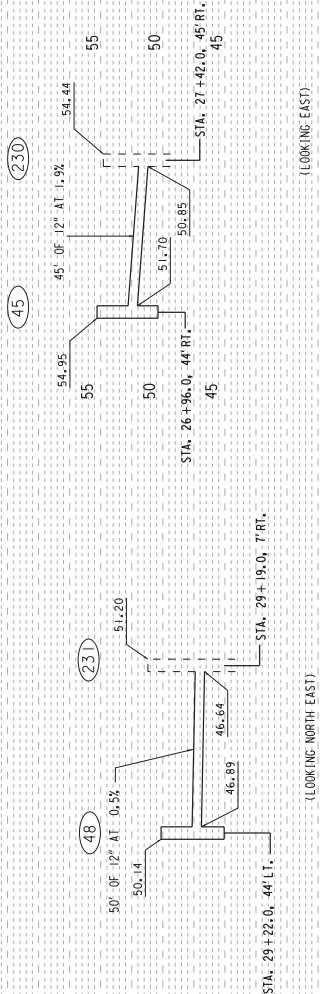
Addendum No. 01
 ID 2060-00-76
 Revised Sheet 126
 March 5, 2019

Addendum No. 01
ID 2060-00-76
Revised Sheet 127
March 5, 2019

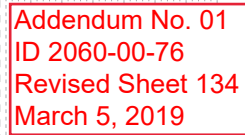


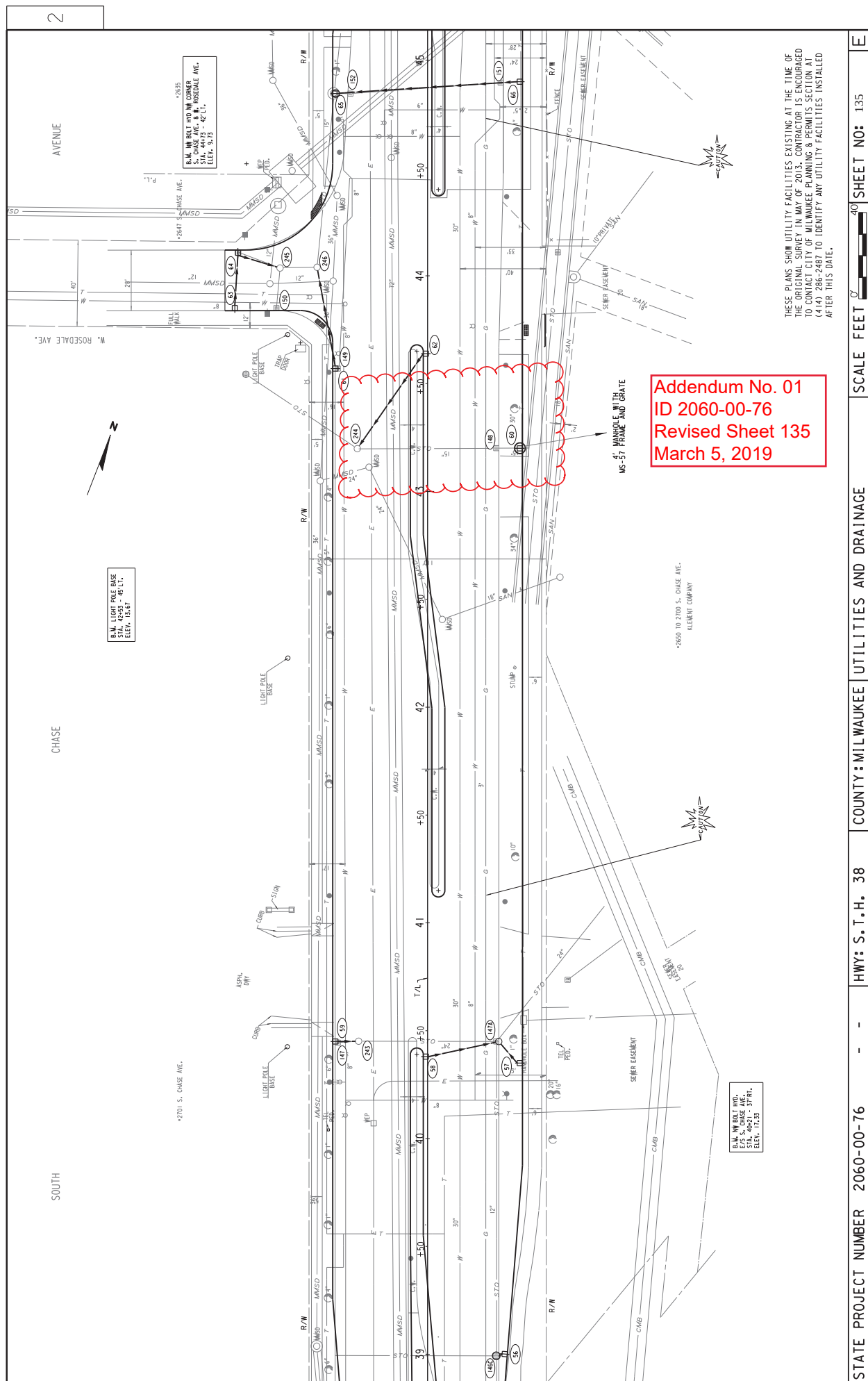
THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN MAY OF 2013. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.



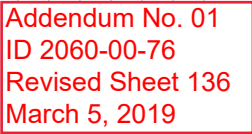


Addendum No. 01
ID 2060-00-76
Revised Sheet 132
March 5, 2019

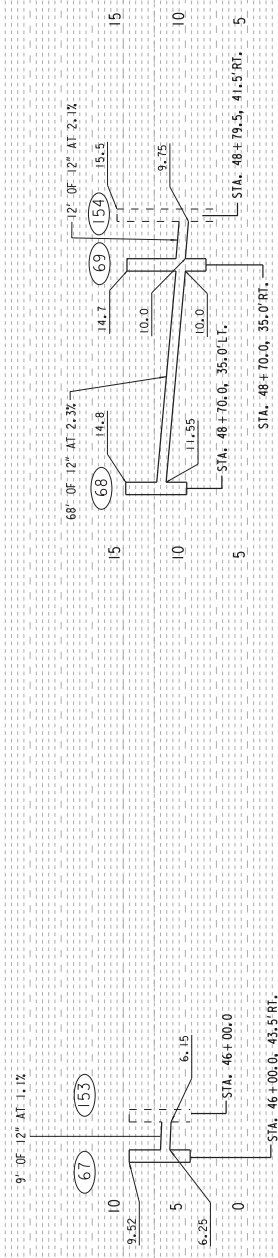
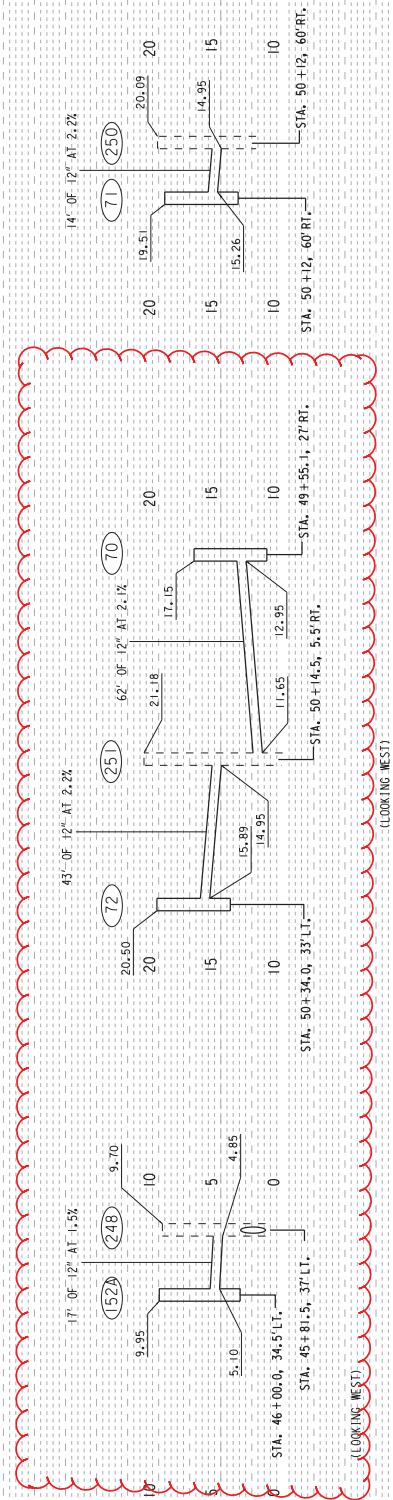




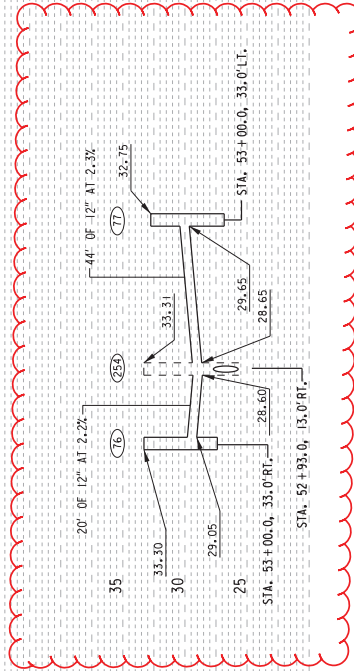
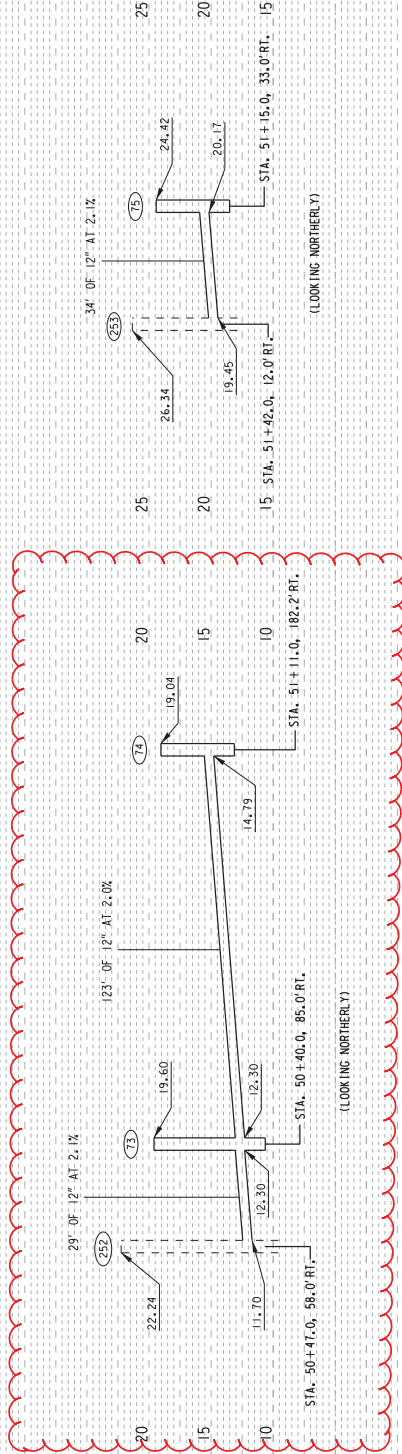
THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN MAY OF 2013. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

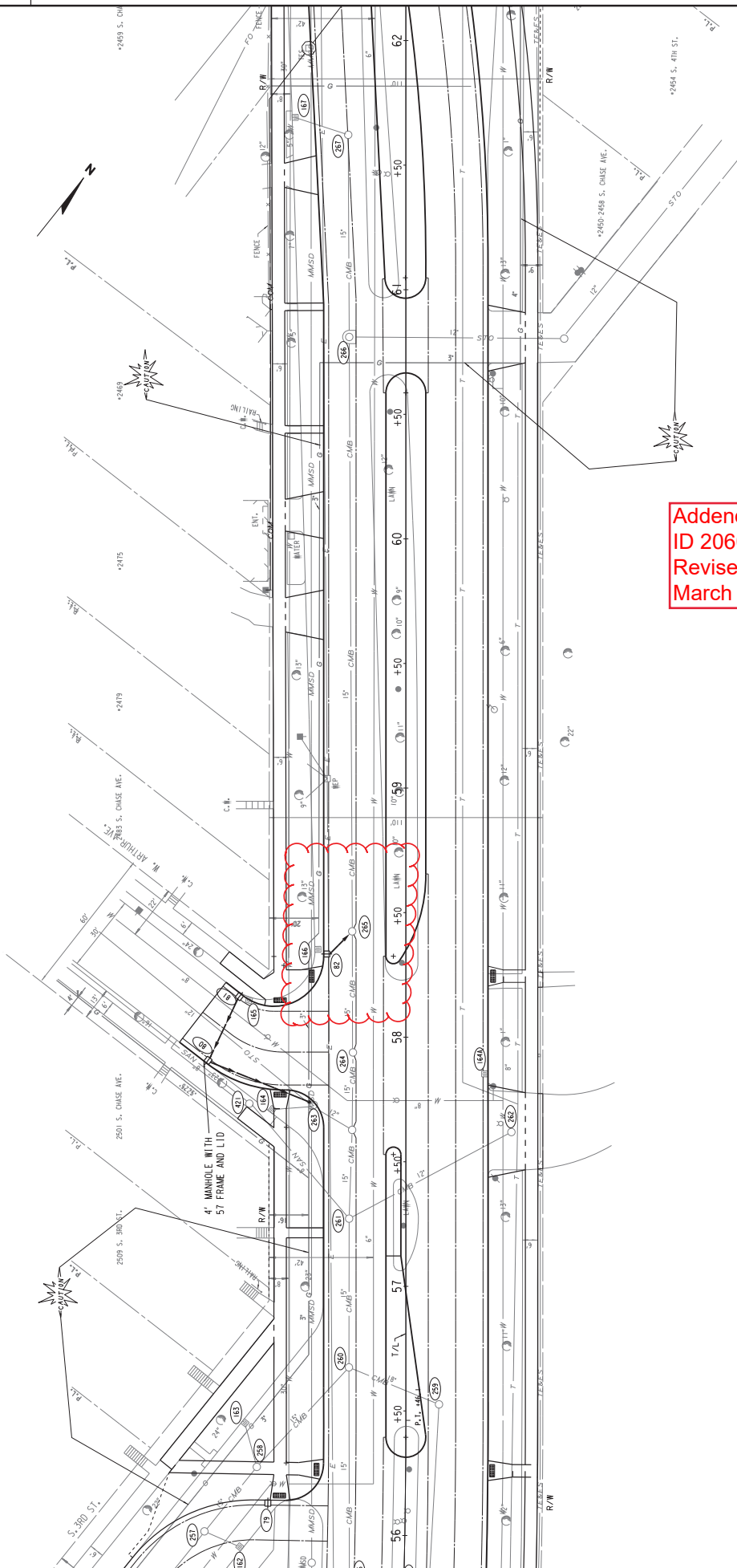


Addendum No. 01
ID 2060-00-76
Revised Sheet 138
March 5, 2019



Addendum No. 01
ID 2060-00-76
Revised Sheet 140
March 5, 2019



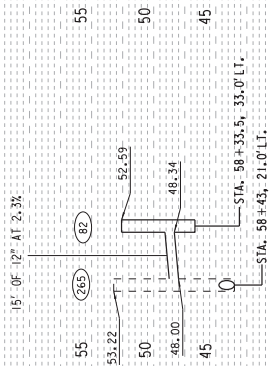


B.M. NW BOLT HDG.
S.S. S. CHASE AVE.
STA. 2500.00 - 35.00 FT.
ELEV. 58.32

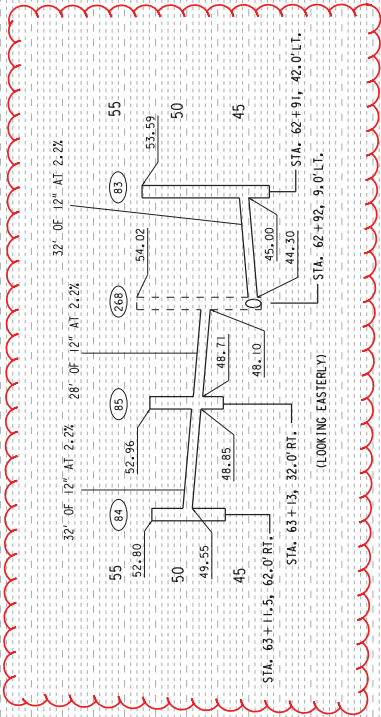
B.M. NW BOLT HDG.
S.S. S. CHASE AVE.
STA. 2500.00 - 35.00 FT.
ELEV. 58.32

Addendum No. 01
ID 2060-00-76
Revised Sheet 141
March 5, 2019

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN MAY OF 2013. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2887 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.



Addendum No. 01
ID 2060-00-76
Revised Sheet 142
March 5, 2019

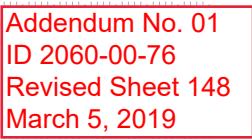


Addendum No. 01
ID 2060-00-76
Revised Sheet 144
March 5, 2019

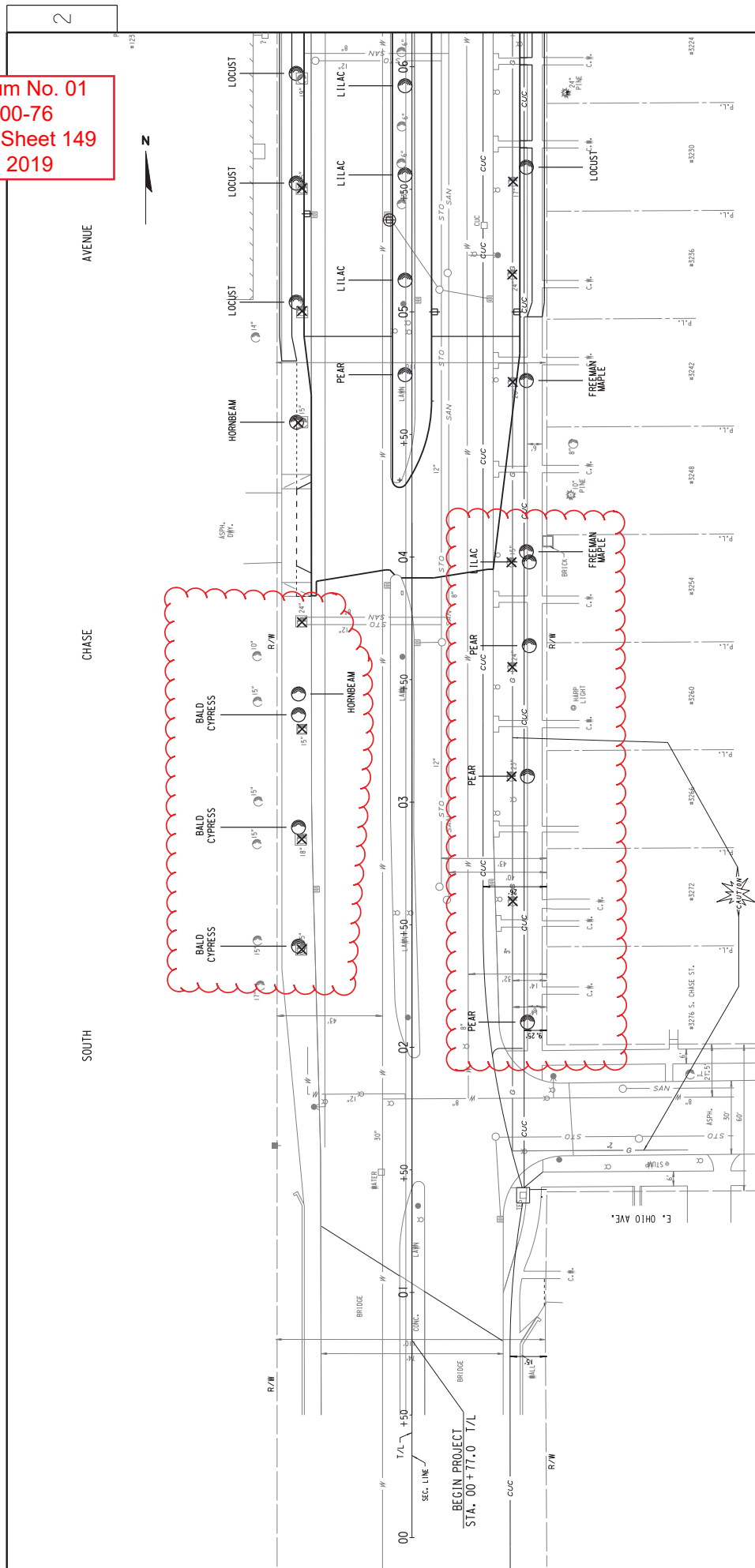


(LOOKING-NORTH)

STATE PROJECT NUMBER	2060-00-76	HWY: S.T.H. 38	COUNTY: MILWAUKEE	UTILITIES & DRAINAGE	SCALE	FEET	SHEET NO:	146



Addendum No. 01
ID 2060-00-76
Revised Sheet 149
March 5, 2019



COMMON NAME	SCIENTIFIC NAME	SIZE WHEN PLANTED	ROOT TIME MOE	MINIMUM SIZE			PLANT HOLE	BRACE	FERT.	ROBERT	MCH	REMARKS
				DIAL.	DEPTH	SPREAD	DIAL.	DEPTH	GOY	RECD	DIA.	
FREEHAW MAPLE	ACEA X FREEHAW "AUTUMN BLUE"	4.0" CAL.	B B B	39" MIN	24" MIN	INDEFINITE	54" MIN	24" MIN	GOY	4-EACH	48"	SPECIMEN QUALITY
SEVIER CYPRESS	AMELANCHIER CANADENSIS	3.0" CAL.	B B B	24" MIN	19" MIN	INDEFINITE	48" MIN	24" MIN	BRACE	4-EACH	NONE	SPECIMEN QUALITY
PEAR	PRUNUS CALLERIANA "CLEVELAND SELECT"	4.0" CAL.	B B B	39" MIN	24" MIN	INDEFINITE	54" MIN	24" MIN	GOY	4-EACH	NONE	SPECIMEN QUALITY
IVORY SILK LILAC	SYRINGA RETICULATA "IVORY SILK"	4.0" CAL.	B B B	39" MIN	24" MIN	INDEFINITE	54" MIN	24" MIN	GOY	4-EACH	NONE	SPECIMEN QUALITY
KENTUCKY COFFEE	GYNOCALADUS DIOICUS "ESPRESSO"	4.0" CAL.	B B B	39" MIN	24" MIN	INDEFINITE	54" MIN	24" MIN	GOY	4-EACH	NONE	SPECIMEN QUALITY
BALD CYPRESS	TAXODIUM DISTICHUM	4.0" CAL.	B B B	39" MIN	24" MIN	INDEFINITE	54" MIN	24" MIN	GOY	4-EACH	NONE	SPECIMEN QUALITY
HORNEBEAM	CARPINUS CAROLINIANA	3.0" CAL.	B B B	39" MIN	19" MIN	INDEFINITE	48" MIN	24" MIN	GOY	4-EACH	NONE	SPECIMEN QUALITY
ENGLISH OAK	QUERCUS ROBUR "CONJUGAL SPIRITS"	4.0" CAL.	B B B	39" MIN	24" MIN	INDEFINITE	54" MIN	24" MIN	GOY	4-EACH	NONE	SPECIMEN QUALITY
LOCUST	ULMUS CARPINIFOLIA "ACCULABE"	3.0" CAL.	B B B	32" MIN	19" MIN	INDEFINITE	48" MIN	24" MIN	BRACE	4-EACH	NONE	SPECIMEN QUALITY

PLANTING DATA CHART

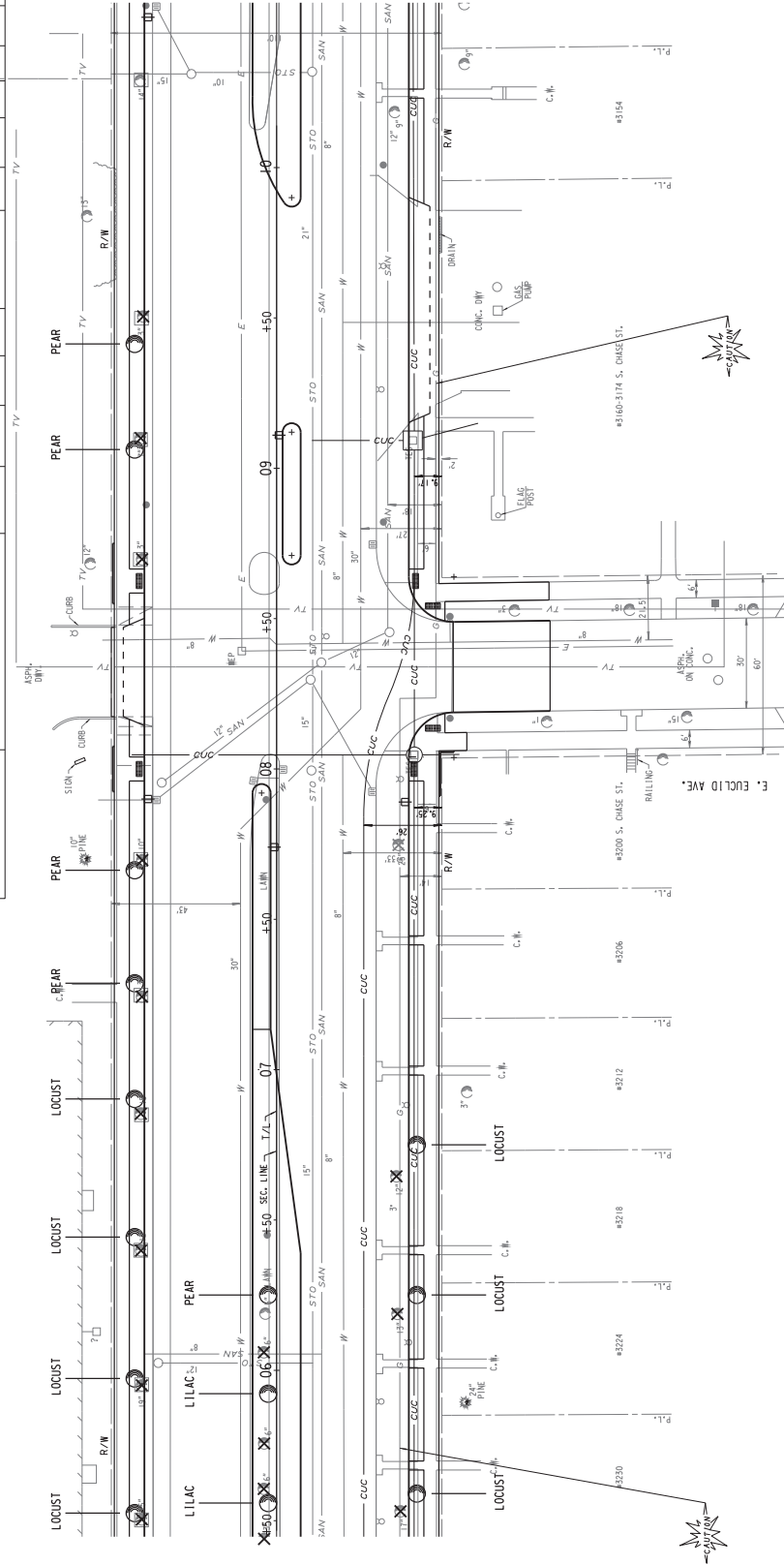
- NOTES:
1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
 2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
 3. MULCH IS INCIDENTAL TO TREE PLANTING; SEE PLANT DATA CHART.
- - PLANT NEW TREE (TYPE)
✕ - CLEAR & GRUB TREE
- BR BARE ROOT
BBB BALLED AND BURLAPPED
CAL CALIPHERS
CUC CROWN CUTTERS
(*) FOR BARE ROOT PLANTS

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MAILED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

 - PLANT NEW TREE (TYPE)	 - CLEAR & GRUB TREE	 PIGGY WIGGY CRACKER #23 N. CALHOUN AVE.
		BR BARK ROOT
		BBB BALLED AND BURLAPED
		CC CALIPERS FOR GROWTH
		(A) FOR BARE ROOT PLANTS

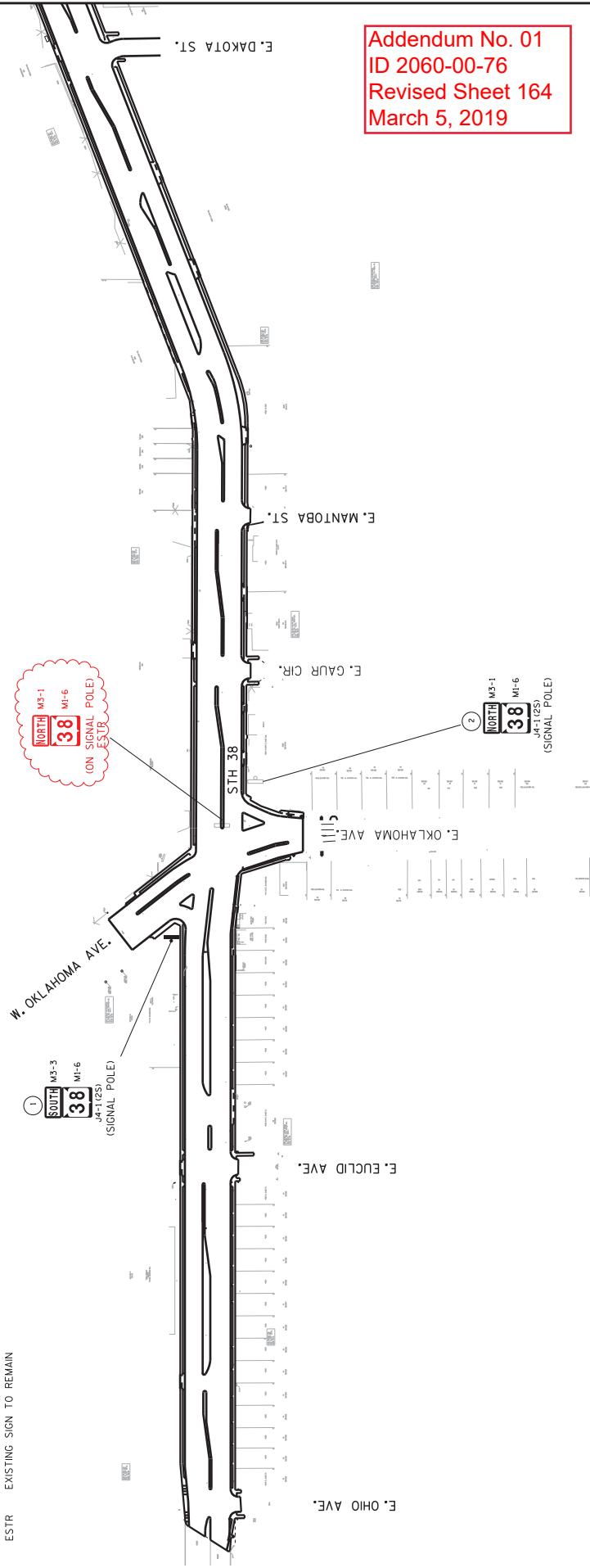
PLANTING DATA CHART													
COMMON NAME	SCIENTIFIC NAME	SIZE WHEN PLANTED	ROOT ZONE		BALL / POT		MINIMUM SIZE		BRACE OR RING DTL.	FERT. PROTECT RING DTL.	MULCH UNITS REQ'D	REMARKS	
			DEPTH	WIDTH	DEPTH	WIDTH	ROOT SPREAD	PLANT HOLE DTL.					
FREEMAN WIPLE	ACER X FREEMANTII "AUTUMN BLUE"	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
PEAR SWISS CHESTNUT	AMELANCHIER CANDIDENSIS	3.0" DIAL.	8" B	24" MIN.	19" MIN.	19" MIN.	19" MIN.	INDEFINITE	BRACE	4-4:00	NONE	48"	SPECIMEN QUALITY
PEAR	SPYRUS CALLAEANA "CLEVELAND SELECT"	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
PEAR	SYRGA SIBIRICA	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
KENTUCKY COFFEE	GYNOCLADUS HICOGUS "ESPRESSO"	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
BALD CYPRESS	BAUD. CYPRESS	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
HORNBEAM	CARPINUS CAROLINANA	4.0" DIAL.	8" B	39" MIN.	18" MIN.	18" MIN.	18" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
ENGLISH OAK	QUERCUS ROBUR "CRIMSON SPHERE"	3.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
DOGWOOD	DOGWOOD	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
SUNBURST LOCUST	LEDUM TETRAICANTHUS "SKYLINE"	4.0" DIAL.	8" B	39" MIN.	24" MIN.	24" MIN.	24" MIN.	INDEFINITE	GUY	4-4:00	NONE	48"	SPECIMEN QUALITY
ELM	ULMUS CARPINIFOLIA "ACCADUE"	3.0" DIAL.	8" B	32" MIN.	19" MIN.	19" MIN.	19" MIN.	INDEFINITE	BRACE	4-4:00	NONE	48"	SPECIMEN QUALITY



Addendum No. 01
ID 2060-00-76
Revised Sheet 150
March 5, 2019

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE/SIGNAL POLE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON NEW LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- DENOTES SIGN NUMBER
- INDICATES SIGN SIZE
- L.P. LIGHT POLE
- ESTR EXISTING SIGN TO REMAIN



Addendum No. 01
ID 2060-00-76
Revised Sheet 164
March 5, 2019

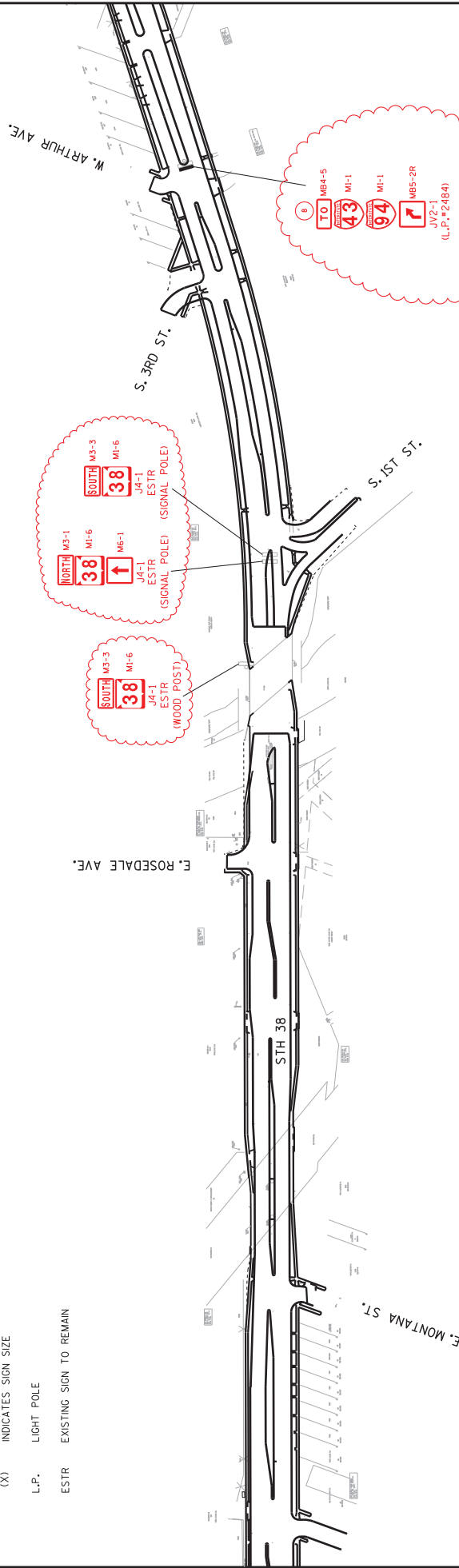
REVISED
2/2/19

SHEET 10F 3

PROJECT NO: 2060-00-76	HWY: STH 38	COUNTY: MILWAUKEE	PERMANENT SIGNING - ROUTE MARKERS	SHEET 164	E
FILE NAME : J:\projects\02.20600038\SIGN\023201.PS.dgn					WISDOT/CADDs SHEET 42
PLOT DATE : 21-FEB-2019 13:01			PLOT BY : dotcmv	PLOT SCALE : 200:1	

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE/SIGNAL POLE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON NEW LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- DENOTES SIGN NUMBER
- INDICATES SIGN SIZE
- L.P. LIGHT POLE
- ESTR EXISTING SIGN TO REMAIN

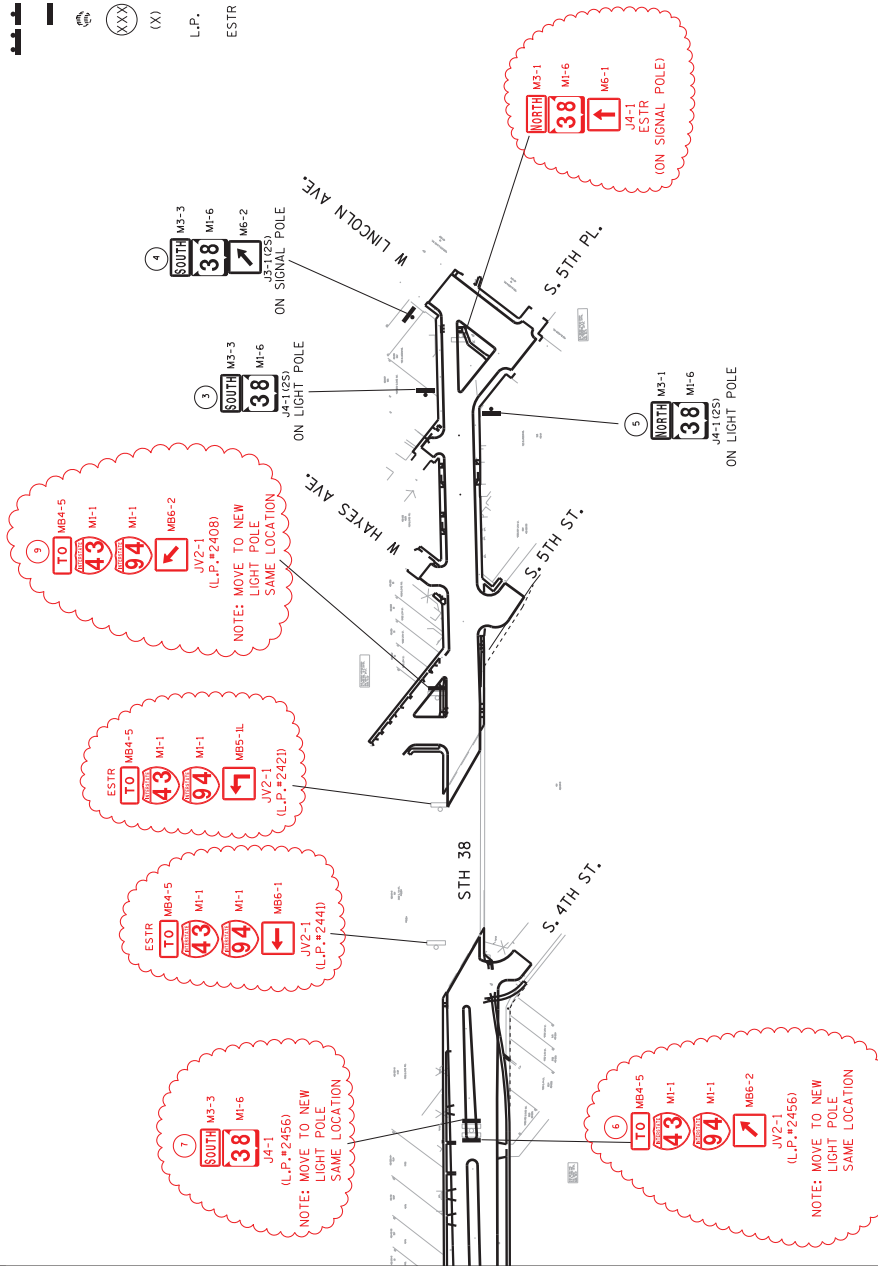


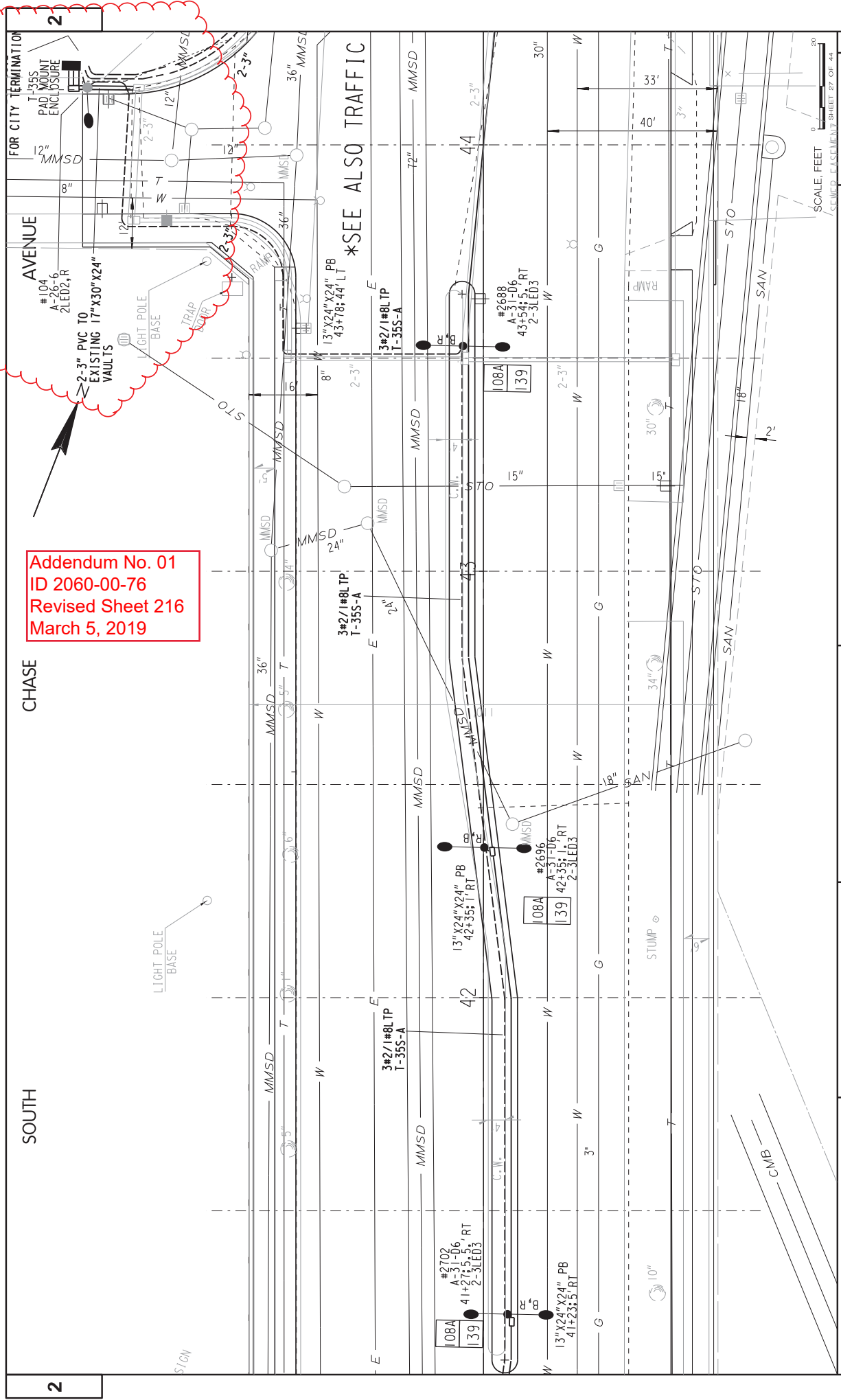
Addendum No. 01
ID 2060-00-76
Revised Sheet 165
March 5, 2019

REVISED
2-22-19



REVISED
2-22-19





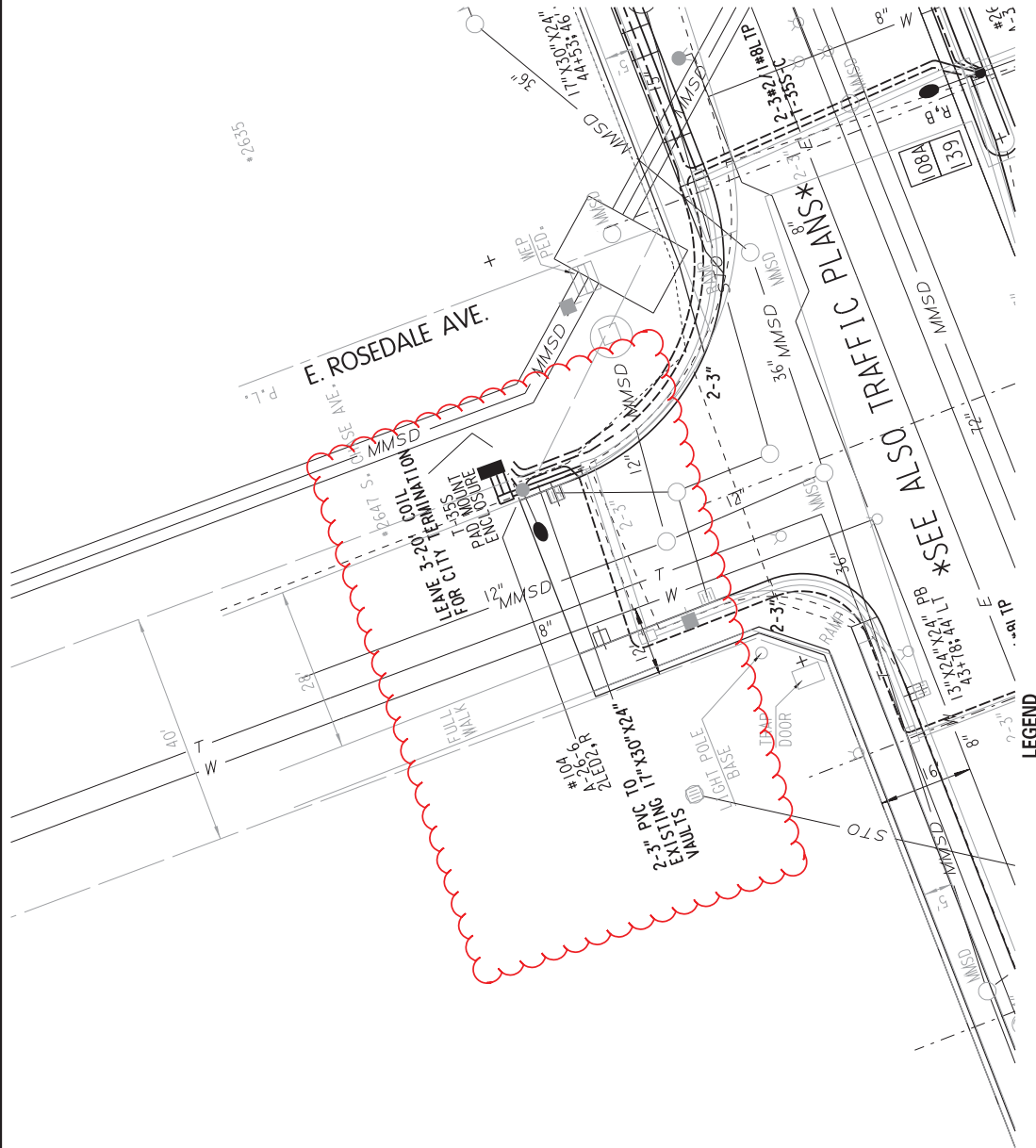


Addendum No. 01
ID 2060-00-76
Revised Sheet 217
March 5, 2019

SCALE, FEET 0 20
SHEET 28 OF 44

E
SHEET 217

WISDOTCADS SHEET 42



LEGEND

STREET LIGHTING CONDUIT DETAILS & PLAN

COUNTY: MILWAUKEE

S.T.H. 38

PROJECT NO: 2060-00-76

PLOT DATE : 27-FEB-2019 08:41

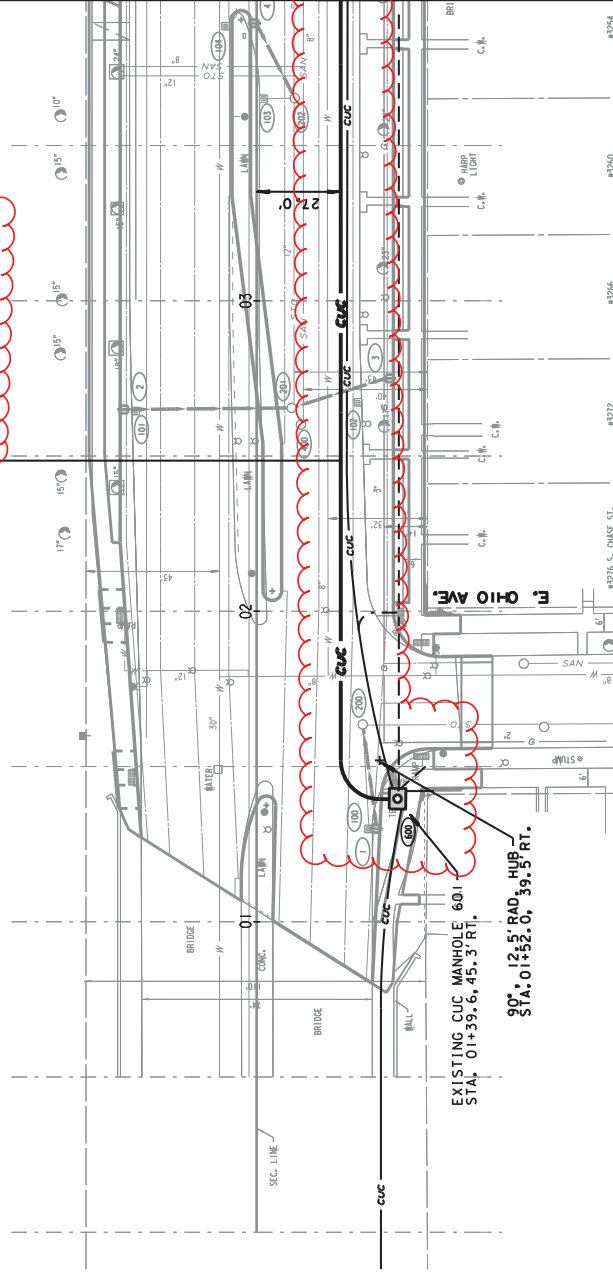
SOUTH

CHASE

AVENUE



100 4" PVC CONDUIT
100 CEMENT ENCASED



Addendum No. 01
ID 2060-00-76
Revised Sheet 233
March 5, 2019

NOTES:

- 1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL
- 2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
- 3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 4) DIMENSIONS SHOWN ARE CENTER-TO-CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
- 5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

LEGEND

- CUC —
-
-
- CUC —
-

- PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
- PROPOSED CUC MANHOLE
- EXISTING CUC MANHOLE
- EXISTING CONDUIT
- CONDUIT TO BE ABANDONED

SHEET 1 OF 19

STATE PROJECT NUMBER 2060-00-76

HWY: U.S.H. 38

COUNTY: MILWAUKEE CITY UG CONDUIT (CUC)

SCALE FEET 0' 40'

SHEET NO: 233

E

Addendum No. 01
ID 2060-00-76
Revised Sheet 234
March 5, 2019

SOUTH

CHASE

AVENUE

TRANSITION CONDUIT FROM
1" TO 1/4" PACKAGE FOR
INSTALLATION INTO MANHOLE.
INSTALL PROPOSED DUCTS ON
TOP OF EXISTING 1/4" PACKAGE.

PROPOSED 4-4" PVC CONDUIT
#125 S. CHASE AVE.

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

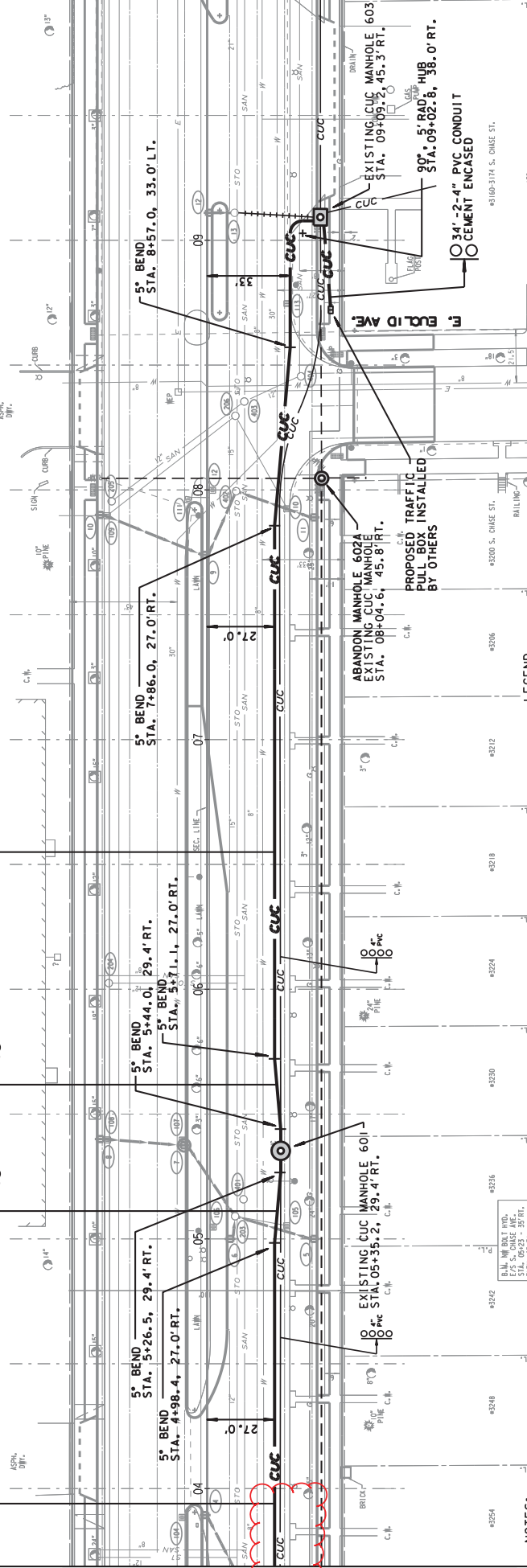
4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED

4-4" PVC CONDUIT
CEMENT ENCASED



LEGEND

- CUC — PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
- PROPOSED CUC MANHOLE
- EXISTING CUC MANHOLE
- CUC — EXISTING CONDUIT
- CONDUIT TO BE ABANDONED

NOTES:

- CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL
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- DIMENSIONS SHOWN ARE CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
- MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

SHEET 2 OF 19

STATE PROJECT NUMBER 2060-00-76

HWY: U.S.H. 38

COUNTY: MILWAUKEE CITY UG CONDUIT (CUC)

SCALE FEET 0' 40'

SHEET NO: 234

Addendum No. 01
ID 2060-00-76
Revised Sheet 240
March 5, 2019

SOUTH

CHASE

AVENUE

16'-2-4" PVC CONDUIT
CEMENT ENCASED
ATTACH TO 4" PVC STUB
INSTALLED BY OTHERS

B.M. LIGHT POLE BASE
ELEV. 154.67
ELEV. 154.67

420' -6-4" PVC CONDUIT
CEMENT ENCASED

PROPOSED STREET
LIGHTING ENCLOSURE
BY OTHERS

82'-4-4" PVC CONDUIT
CEMENT ENCASED

○ ○ ○ ○ CAP TOP DUCTS
○ ○ ○ ○ EXTEND TO STREET
○ ○ ○ ○ LIGHTING ENCLOSURE

FUTURE TRAFFIC
CONTROL CABINET
BY OTHERS

11.25° 12.5' RAD, HUB
STA. 44+40.6, 20.0' LT.

*2701 S. CHASE AVE.

11.25° 12.5' RAD, HUB
STA. 40+35.8, 23.0' LT.

PROPOSED MANHOLE 618
4" DUCT CENTER
STA. 39+97.6, 22.5' RT.

PROPOSED MANHOLE CUC 619
4" DUCT CENTER
STA. 44+21.9, 07.2' RT.

97' BEND
STA. 43+83.4, 10.5' RT.

NOTES:

- 1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL
- 2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
- 3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 4) DIMENSIONS SHOWN ARE CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
- 5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

*2550 TO 2700 S. CHASE AVE.
ELEMENT COMPANY

LEGEND

- CUC — PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
- PROPOSED CUC MANHOLE
- EXISTING CUC MANHOLE
- CUC — EXISTING CONDUIT
- CONDUIT TO BE ABANDONED

SHEET 8 OF 19

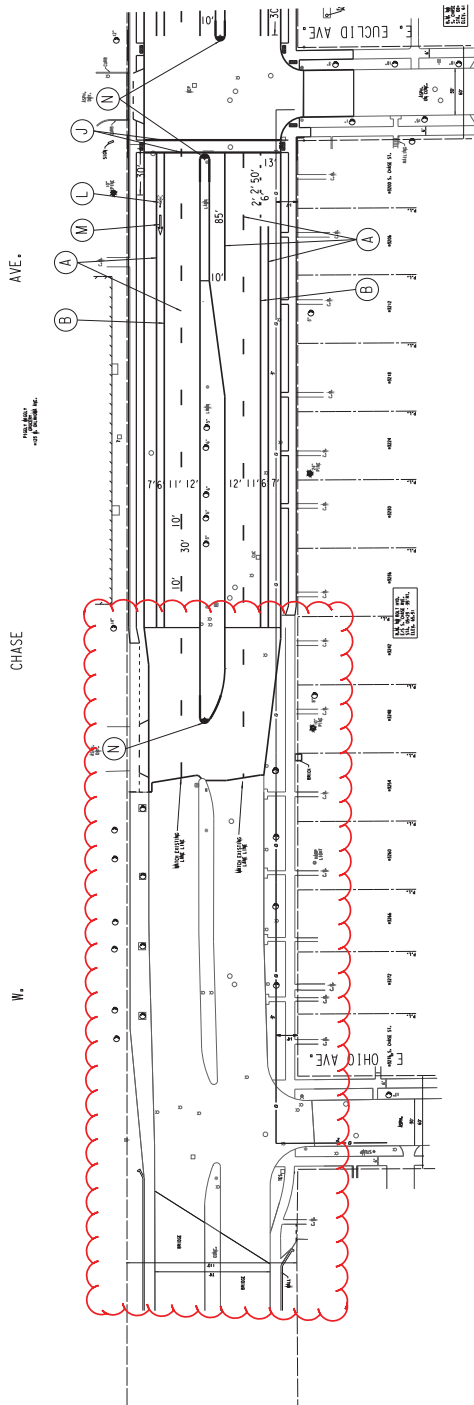
STATE PROJECT NUMBER 2060-00-76

HWY: U.S.H. 38

COUNTY: MILWAUKEE CITY UG CONDUIT (CUC)

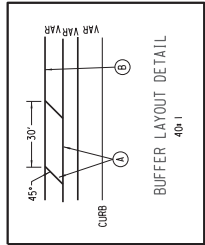
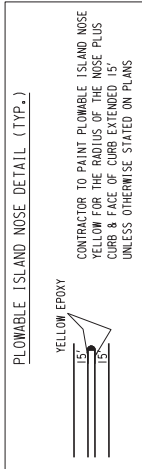
SCALE FEET 0' 40'

SHEET NO: 240

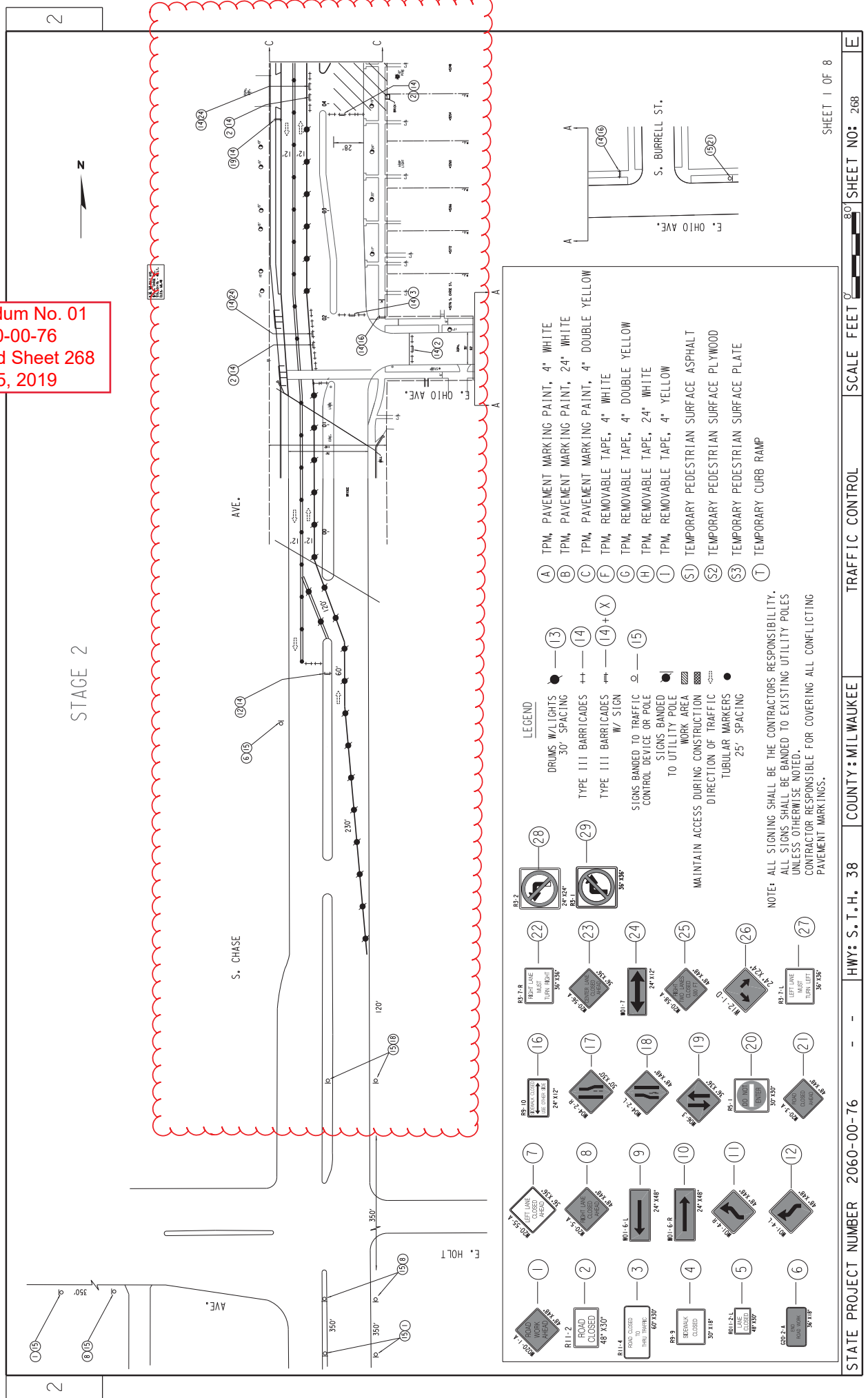


Addendum No. 01
ID 2060-00-76
Revised Sheet 252
March 5, 2019

(A) PAVEMENT MARKING, 4-INCH WHITE EPOXY	(H) PAVEMENT MARKING ARROWS TYPE 2 (STRAIGHT) EPOXY
(B) PAVEMENT MARKING, 6-INCH WHITE EPOXY	(I) PAVEMENT MARKING ARROWS TYPE 2 (LEFT, RIGHT, STRAIGHT) EPOXY
(C) PAVEMENT MARKING, 4-INCH DOUBLE YELLOW EPOXY	(J) PAVEMENT MARKING CROSSWALK, 12-INCH WHITE EPOXY
(D) PAVEMENT MARKING, 4-INCH YELLOW CENTER LINE EPOXY	(K) PAVEMENT MARKING STOPLINE, 24-INCH WHITE EPOXY
(E) PAVEMENT MARKING WORDS "ONLY" EPOXY	(L) PAVEMENT MARKING, BIKE SYMBOLS EPOXY
(F) PAVEMENT MARKING ARROWS, TYPE 2 (LEFT TURN) EPOXY	(M) PAVEMENT MARKING, BIKE ARROWS EPOXY
(G) PAVEMENT MARKING ARROWS, TYPE 2 (RIGHT TURN) EPOXY	(N) SEE PLOWABLE ISLAND NOSE DETAIL
	(O) PAVEMENT MARKING ARROWS TYPE 2 (LEFT, RIGHT) EPOXY
	(P) PAVEMENT MARKING, 4-INCH YELLOW EPOXY



Addendum No. 01
ID 2060-00-76
Revised Sheet 268
March 5, 2019



SHEET 1 OF 8

2060-00-76

REMOVALS

Addendum No. 01
ID 2060-00-76
Revised Sheet 282
March 5, 2019

CATEGORY 0010	ITEM NO.	UNIT/PAY	CLEARING 201.0120	GRUBBING 201.0220	ROADSIDE CLEARING 202.0110	REMOVING PAVEMENT 204.0100	REMOVING BUTT JOINTS 204.0105	REMOVING ASPHALTIC SURFACE BUTT JOINTS 204.0115	REMOVING CURB & GUTTER 204.0150	REMOVING CONCRETE SIDEWALK 204.0155	REMOVING FENCE 204.0170	SAWING ASPHALT 690.0150	SAWING CONCRETE 690.0250
LOCATION			ID	ID	SY	SY	SY	SY	LF	SY	LF	LF	LF
STA 0+77 TO 4+00	LT				0	35	0	0	6	10	0	0	0
STA 4+00 TO 10+00	LT				0	2440	0	0	0	687	0	60	10
STA 10+00 TO 16+00	LT				0	3260	0	160	10	830	0	0	10
STA 16+00 TO 22+00	LT				0	1120	0	0	0	540	0	70	30
STA 22+00 TO 27+00	LT				0	1610	0	0	0	460	0	50	190
STA 27+00 TO 33+00	LT				0	2140	0	0	0	570	0	0	60
STA 33+00 TO 39+00	LT				0	1960	0	0	0	500	0	140	0
STA 39+00 TO 45+00	LT				0	3050	0	0	0	450	0	510	30
STA 45+00 TO 50+00	LT				0	1520	0	0	0	370	0	0	0
STA 50+00 TO 56+00	LT				0	1960	0	50	0	450	0	0	0
STA 56+00 TO 62+00	LT				0	2730	0	0	0	440	0	0	10
STA 62+00 TO 66+00	LT				0	690	0	0	0	80	0	0	0
STA 66+00 TO 71+00	LT				0	2410	320	0	0	420	0	0	80
STA 71+00 TO 75+00	LT				0	1300	0	0	0	280	0	0	0
STA 101+59 TO 103+00 (OKLAHOMA)	LT				0	130	460	0	40	50	0	20	0
SUBTOTALS (LEFT)					0	26355	780	210	56	6137	0	850	420
STA 0+77 TO 4+00	RT				0	27	0	30	20	0	0	30	20
STA 4+00 TO 10+00	RT				0	2350	0	90	0	515	0	30	100
STA 10+00 TO 16+00	RT				85	4040	0	0	0	570	75	100	50
STA 16+00 TO 22+00	RT				0	4170	0	50	30	450	0	140	80
STA 22+00 TO 27+00	RT				0	2610	0	0	0	400	0	70	0
STA 27+00 TO 33+00	RT				0	2830	0	0	0	540	0	0	0
STA 33+00 TO 39+00	RT				0	2200	0	60	40	570	0	0	0
STA 39+00 TO 45+00	RT				0	2220	0	0	0	660	0	70	0
STA 45+00 TO 50+00	RT				0	1840	0	0	0	380	0	0	30
STA 50+00 TO 56+00	RT				0	2630	0	0	0	380	0	0	0
STA 56+00 TO 62+00	RT				0	2130	0	0	0	500	0	40	0
STA 62+00 TO 66+00	RT				0	1180	0	0	70	230	0	0	0
STA 66+00 TO 71+00	RT				0	1730	0	0	0	210	0	0	130
STA 71+00 TO 75+00	RT				0	2050	0	0	0	530	0	0	0
STA 101+59 TO 103+00 (OKLAHOMA)	RT				0	350	1880	0	40	10	0	0	0
SUBTOTALS (RIGHT)					85	32357	1880	230	200	5945	75	480	410
GRAND TOTALS			707	707	85	58,712	2,660	440	256	12,082	75	1,330	830

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 282

E

Addendum No. 01
ID 2060-00-76
Revised Sheet 282
March 5, 2019

Addendum No. 01
ID 2060-00-76
Revised Sheet 283
March 5, 2019

CONCRETE CONSTRUCTION ITEMS

2060-00-76

CATEGORY	LOCATION	ITEM NO. UNIT PAY	BASE AGGREGATE DENSE 3/4-INCH TON 0010	*BASE AGGREGATE DENSE 1-1/4-INCH 305.0110 TON 0020	CONCRETE PAVEMENT 7-INCH 415.0070 SY 0010	*CONCRETE PAVEMENT 8.5-INCH 415.0085 SY 0010	CONCRETE PAVEMENT GAPS 415.0210 EACH 0010	CONCRETE DRIVEWAY 7-INCH 416.0170 SY 0010	CONCRETE DRIVEWAY 9-INCH 416.0190 SY 0010	CONCRETE DRIVEWAY HES 416.0270 SY 0010	CONCRETE DRIVEWAY HES 416.0290 SY 0010	CONCRETE CURB & GUTTER 601.0331 LF 0010	CONCRETE CURB TYPE D 601.0150 LF 0010	CONCRETE CURB & GUTTER 31-INCH 601.0331 LF 0010	CONCRETE CURB 601.0600 LF 0010	CONCRETE SIDEWALK 5-INCH 602.0410 SF 0010	CONCRETE SIDEWALK 602.0515 SF 0010	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA 602.0515 SF 0010	CONCRETE SLOPED NOSE 620.0300 SF 0010
STA 0+770 TO 4+00	LT		19	0	0	1150	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 4+00 TO 10+00	LT		1001	0	0	2380	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 10+00 TO 16+00	LT		1260	0	0	2890	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 16+00 TO 22+00	LT		550	0	0	1330	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 22+00 TO 27+00	LT		700	0	0	1740	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 27+00 TO 33+00	LT		970	0	0	2600	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 33+00 TO 39+00	LT		860	0	0	1990	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 39+00 TO 45+00	LT		1000	0	0	2680	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 45+00 TO 50+00	LT		510	0	0	1310	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 50+00 TO 56+00	LT		860	0	0	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 56+00 TO 62+00	LT		810	0	0	1800	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 62+00 TO 66+00	LT		180	0	0	460	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 66+00 TO 71+00	LT		790	0	0	1900	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 71+00 TO 75+00	LT		440	0	0	1110	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 101+59 TO 108+00 (OKLAHOMA)	LT		58	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS (LEFT)			10000	0	0	2702	7	310	193	140	0	4050	7756	20	4220	280	550	0	0
STA 0+770 TO 4+00	RT		12	0	0	1350	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 4+00 TO 10+00	RT		939	0	0	2165	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 10+00 TO 16+00	RT		1635	0	0	3940	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 16+00 TO 22+00	RT		1400	0	0	3890	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 22+00 TO 27+00	RT		950	0	0	2250	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 27+00 TO 33+00	RT		940	0	0	2470	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 33+00 TO 39+00	RT		880	0	0	2060	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 39+00 TO 45+00	RT		950	0	0	2530	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 45+00 TO 50+00	RT		580	0	0	1540	1	0	0	0	0	0	0	0	0	0	0	0	0
STA 50+00 TO 56+00	RT		1200	0	0	2720	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 56+00 TO 62+00	RT		720	0	0	1650	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 62+00 TO 66+00	RT		340	0	0	810	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 66+00 TO 71+00	RT		590	0	0	1380	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 71+00 TO 75+00	RT		700	0	0	1710	0	0	0	0	0	0	0	0	0	0	0	0	0
STA 101+59 TO 108+00 (OKLAHOMA)	RT		153	0	0	340	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS (RIGHT)			11991	0	0	3065	4	380	90	130	80	6200	7885	70	44978	400	620	0	0
GRAND TOTALS			1,600	20	210	56,610	11	690	283	270	80	10,250	15,641	90	87,198	680	1,170	0	0

*Quantities listed elsewhere

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 283

E

PLOT NAME: PLOT BY: PLOT SCALE: 1:1

Addendum No. 01
ID 2060-00-76
Revised Sheet 284
March 5, 2019

MISCELLANEOUS ITEMS														
CATEGORY	LOCATION	FINISHING ROADWAY (PROJECT)	DRILLED DOWEL BARS	MOBILIZATION	LANDMARK REFERENCE MONUMENTS	DUST CONTROL SURFACE TREATMENT	FIELD OFFICE (PROJECT)	TRAFFIC CONTROL	INLET SCREEN TYPE M	INLET SCREEN TYPE R	ADJUSTING WATER BOX	ADJUSTING WATER MANHOLES	WATER MAIN PROTECTION	JOINT SEALING
ITEM NO.	UNIT PAY	213.0100	416.0620	619.1000	621.0100	623.0200	642.5401	643.5000	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0180.01
		EACH	EACH	EACH	EACH	SY	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY
		0010	0010	0010	0010	0010	0010	0010	0010	0010	0030	0030	0030	0010
STA 1+00 TO 4+00	LT	←	←	←	0	35	←	←	1	1	←	←	←	1150
STA 4+00 TO 10+00	LT	←	←	←	0	2380	←	←	4	4	←	←	←	4403
STA 10+00 TO 16+00	LT	←	←	←	0.5	2890	←	←	6	6	←	←	←	2890
STA 16+00 TO 22+00	LT	←	←	←	0	1330	←	←	4	4	←	←	←	1330
STA 22+00 TO 27+00	LT	←	←	←	0	1740	←	←	2	2	←	←	←	1740
STA 27+00 TO 33+00	LT	←	←	←	0	2600	←	←	2	2	←	←	←	2600
STA 33+00 TO 39+00	LT	←	←	←	0	1990	←	←	2	2	←	←	←	1990
STA 39+00 TO 45+00	LT	←	←	←	0	2680	←	←	6	6	←	←	←	2680
STA 45+00 TO 50+00	LT	←	←	←	0	1310	←	←	2	2	←	←	←	1310
STA 50+00 TO 56+00	LT	←	←	←	0	2000	←	←	3	3	←	←	←	2000
STA 56+00 TO 62+00	LT	←	←	←	0	1800	←	←	4	4	←	←	←	1800
STA 62+00 TO 66+00	LT	←	←	←	0	460	←	←	1	1	←	←	←	460
STA 66+00 TO 71+00	LT	←	←	←	0	1900	←	←	7	7	←	←	←	1900
STA 71+00 TO 75+00	LT	←	←	←	0	1110	←	←	6	6	←	←	←	1110
STA 75+00 TO 103+00	LT	←	←	←	0	108	←	←	0	0	←	←	←	779
(OKLAHOMA)	LT	←	←	←	0	24325	←	←	50	50	←	←	←	28142
SUBTOTALS (LEFT)														
STA 1+00 TO 4+00	RT	←	←	←	0	27	←	←	3	3	←	←	←	1350
STA 4+00 TO 10+00	RT	←	←	←	0	3530	←	←	4	4	←	←	←	4695
STA 10+00 TO 16+00	RT	←	←	←	0.5	3940	←	←	8	8	←	←	←	3940
STA 16+00 TO 22+00	RT	←	←	←	0	3890	←	←	8	8	←	←	←	3960
STA 22+00 TO 27+00	RT	←	←	←	0	2250	←	←	1	1	←	←	←	2250
STA 27+00 TO 33+00	RT	←	←	←	0	2470	←	←	3	3	←	←	←	2610
STA 33+00 TO 39+00	RT	←	←	←	0	2060	←	←	3	3	←	←	←	2060
STA 39+00 TO 45+00	RT	←	←	←	0	2530	←	←	3	3	←	←	←	2530
STA 45+00 TO 50+00	RT	←	←	←	0	1540	←	←	3	3	←	←	←	1540
STA 50+00 TO 56+00	RT	←	←	←	0	2720	←	←	4	4	←	←	←	2720
STA 56+00 TO 62+00	RT	←	←	←	0	1650	←	←	1	1	←	←	←	1650
STA 62+00 TO 66+00	RT	←	←	←	0	810	←	←	3	3	←	←	←	810
STA 66+00 TO 71+00	RT	←	←	←	0	1380	←	←	1	1	←	←	←	1380
STA 71+00 TO 75+00	RT	←	←	←	0	1710	←	←	4	4	←	←	←	1710
STA 75+00 TO 103+00	RT	←	←	←	0	340	←	←	0	0	←	←	←	1240
(OKLAHOMA)	RT	←	←	←	0	29847	←	←	49	49	←	←	←	34445
SUBTOTALS (RIGHT)														
GRAND TOTALS	1	380	0.97	1	0.97	54,172	0.97	0.97	99	99	125	14	26	62,587

Project No. 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 284

E

PROJECT NO: 2060-00-76	HWY: STH 38	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 285
PLOT DATE: _____ PLOT BY: _____ PLOT SCALE: 1"=1'				

CONCRETE CURB & GUTTER 22-INCH CONCRETE CURB & GUTTER 22-INCH 601.0322 LF 0010 LOCATION E GAUER CIRCLE 30 TOTAL 30	CONCRETE LOADING ZONE CONCRETE LOADING ZONE 602.1000 SF 0010 LOCATION OKLAHOMA AVE 135 TOTAL 135	UTILITY LINE OPENING (ULO) UTILITY LINE OPENING (ULO) SPV.0060.34 EACH 0010 LOCATION OKLAHOMA AVE 30 TOTAL 30	PROJECT NO: 2060-00-76 HWY: STH 38 COUNTY: MILWAUKEE PLT DATE: _____	MISCELLANEOUS QUANTITIES PLT BY: _____	SHEET: 286 E

Addendum No. 01
ID 2060-00-76
Revised Sheet 286
March 5, 2019

2060-00-76	CATEGORY 0010	ITEM NO. UNIT PAY Category	WATER 624.0100 MGAL 0010	TOPSOIL 625.0100 SY 0010	SOD LAWN 631.1000 SY 0010	FERTILIZER TYPE B 629.0210 CWT 0010
	LOCATION					
	STA 0+77 TO 4+00	LT	6	6	6	
	STA 4+00 TO 10+00	LT	610	610	610	
	STA 10+00 TO 16+00	LT	530	530	530	
	STA 16+00 TO 22+00	LT	280	280	280	
	STA 22+00 TO 27+00	LT	360	360	360	
	STA 27+00 TO 33+00	LT	480	480	480	
	STA 33+00 TO 39+00	LT	580	580	580	
	STA 39+00 TO 45+00	LT	350	350	350	
	STA 45+00 TO 50+00	LT	550	550	550	
	STA 50+00 TO 56+00	LT	1240	1240	1240	
	STA 56+00 TO 62+00	LT	1400	1400	1400	
	STA 62+00 TO 66+00	LT	180	180	180	
	STA 66+00 TO 71+00	LT	150	150	150	
	STA 71+00 TO 75+00	LT	0	0	0	
	STA 101+59 TO 103+00 (OKLAHOMA)	LT	20	20	20	
	SUBTOTALS (LEFT)		6736	6736	6736	
	STA 0+77 TO 4+00	RT	6	6	6	
	STA 4+00 TO 10+00	RT	520	520	520	
	STA 10+00 TO 16+00	RT	690	690	690	
	STA 16+00 TO 22+00	RT	250	250	250	
	STA 22+00 TO 27+00	RT	470	470	470	
	STA 27+00 TO 33+00	RT	540	540	540	
	STA 33+00 TO 39+00	RT	430	430	430	
	STA 39+00 TO 45+00	RT	370	370	370	
	STA 45+00 TO 50+00	RT	420	420	420	
	STA 50+00 TO 56+00	RT	1170	1170	1170	
	STA 56+00 TO 62+00	RT	1220	1220	1220	
	STA 62+00 TO 66+00	RT	310	310	310	
	STA 66+00 TO 71+00	RT	300	300	300	
	STA 71+00 TO 75+00	RT	370	370	370	
	STA 101+59 TO 103+00 (OKLAHOMA)	RT	20	20	20	
	SUBTOTALS (RIGHT)		7086	7086	7086	
	GRAND TOTALS		200	13,822	13,822	5

2060-00-76

Contaminated Soil

EXCAVATION,
HAULING, AND
DISPOSAL OF
PETROLEUM
CONTAMINATED
SOIL
205.0501.s
TON
0010

CATEGORY 0010

ITEM NO.
UNIT PAY
Category

MANAGEMENT
OF SOLID
WASTE
SPV.0195.01
TON
0010

LOCATION

STA 0+77 TO 4+00
STA 4+00 TO 10+00
STA 10+00 TO 16+00
STA 16+00 TO 22+00
STA 22+00 TO 27+00
STA 27+00 TO 33+00
STA 33+00 TO 39+00
STA 39+00 TO 45+00
STA 45+00 TO 50+00
STA 50+00 TO 56+00
STA 56+00 TO 62+00
STA 62+00 TO 66+00
STA 66+00 TO 71+00
STA 71+00 TO 75+00
STA 101+59 TO 103+00

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STA 0+77 TO 4+00
STA 4+00 TO 10+00
STA 10+00 TO 16+00
STA 16+00 TO 22+00
STA 22+00 TO 27+00
STA 27+00 TO 33+00
STA 33+00 TO 39+00
STA 39+00 TO 45+00
STA 45+00 TO 50+00
STA 50+00 TO 56+00
STA 56+00 TO 62+00
STA 62+00 TO 66+00
STA 66+00 TO 71+00
STA 71+00 TO 75+00
STA 101+59 TO 103+00

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1,640

3217

GRAND TOTALS

2060-00-76

ASPHALT ITEMS

TACK COAT
455.0605
GAL
0010

CATEGORY 0010

ITEM NO.
UNIT PAY
Category

LOCATION

STA 0+77 TO 4+00
STA 4+00 TO 10+00
STA 10+00 TO 16+00
STA 16+00 TO 22+00
STA 22+00 TO 27+00
STA 27+00 TO 33+00
STA 33+00 TO 39+00
STA 39+00 TO 45+00
STA 45+00 TO 50+00
STA 50+00 TO 56+00
STA 56+00 TO 62+00
STA 62+00 TO 66+00
STA 66+00 TO 71+00
STA 71+00 TO 75+00
STA 101+59 TO 103+00 (OKLAHOMA)

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STA 0+77 TO 4+00
STA 4+00 TO 10+00
STA 10+00 TO 16+00
STA 16+00 TO 22+00
STA 22+00 TO 27+00
STA 27+00 TO 33+00
STA 33+00 TO 39+00
STA 39+00 TO 45+00
STA 45+00 TO 50+00
STA 50+00 TO 56+00
STA 56+00 TO 62+00
STA 62+00 TO 66+00
STA 66+00 TO 71+00
STA 71+00 TO 75+00
STA 101+59 TO 103+00 (OKLAHOMA)

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GRAND TOTALS

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 287

E

Addendum No. 01

ID 2060-00-76

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March 5, 2019

Addendum No. 01
ID 2060-00-76
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March 5, 2019

ESTIMATE OF QUANTITIES; STREET LIGHTING & TRAFFIC SIGNALS

PROJECT ID. 2060-00-76

MILWAUKEE COUNTY

Cat 0010

Std.Bld Item No.	Description	Unit	Quantity
-	*652.0230 Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	1,145
-	*652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	8,440
-	*652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	3,395
-	652.0615 Conduit Special 3-Inch	LF	405
-	655.0305 Cable Type UF 2-12 AWG Grounded	LF	5,255
-	SPV.0060.12 Poles Type-1	EACH	9
-	SPV.0060.13 Poles Type-3	EACH	58
-	SPV.0060.14 Poles Type-6	EACH	4
-	SPV.0060.15 Poles Type-31	EACH	1
-	SPV.0060.19 Pull Boxes 13-Inch x 24-Inch x 24-Inch	EACH	122
-	*SPV.0060.20 Pull Boxes 17-Inch x 30-Inch x 24-Inch	EACH	2
-	SPV.0060.22 Water Tight Junction Box Splicing	EACH	92
-	*SPV.0060.23 Luminaire Arms Single Member 6-Ft-City Furnished	EACH	111
-	SPV.0060.24 Remove Luminaire	EACH	41
-	SPV.0060.25 Luminaire Architectural LED 1	TOTAL	12
-	Type 2 Light Distribution (1LED2)	EACH	11
-	Type 5 Light Distribution (1LED5)	EACH	1
-	Luminaire Architectural LED 2	TOTAL	10
-	Type 2 Light Distribution (2LED2)	EACH	6
-	Type 3 Light Distribution (2LED3)	EACH	4
-	Luminaire Architectural LED 3	TOTAL	125
-	Type 3 Light Distribution (3LED3)	EACH	124
-	Type 5 Light Distribution (3LED5)	EACH	1
-	Luminaire Historic Milwaukee Harp LED 0	EACH	14
-	Luminaire Historic Milwaukee Lantern LED 2	EACH	11
-	Luminaire Utility LED 0 Wallpack	EACH	2
-	SPV.0060.32 Concrete Spread Footing	EACH	1
-	*SPV.0090.03 Liquidtight Flexible Nonmetallic Conduit 1 1/2"	LF	665
-	SPV.0090.08 Electrical Cable Type 3#8/1#8 LTP	LF	1,630
-	SPV.0090.09 Electrical Cable Type 3#6/1#8 LTP	LF	450
-	SPV.0090.10 Electrical Cable Type 3#4/1#8 LTP	LF	3,850
-	SPV.0090.11 Electrical Cable Type 3#2/1#8 LTP	LF	12,060
-	SPV.0090.12 Electrical Cable Type UF 3#12 AWG With Ground	LF	2,800

*Quantities listed elsewhere

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March 5, 2019

PROJECT NO: 2060-00-76

HWY: S.T.H. 38

COUNTY: MILWAUKEE

STREET LIGHTING CONDUIT DETAILS & PLAN

SHEET

289

E

FILE NAME : W:\proj\var\proj\2016work\chase Ave - Ohio to Lincoln (2060-00-76)\2016-00-76 TEES Conduit.dgn

PLOT DATE : 26-Oct-2018 13:23

PLOT BY : abe

PLOT SCALE : 20.000000:100000

WISDOT/CADD/S SHEET 42

EARTH WORK SUMMARY

From/To Station	Excavation Common (1) (item # 205.0100)	EBS Excavation (3)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Borrow(8)
0+77 to 75+00	Cut (2) CY 24207	CY 4840	CY 27613	CY 1434	CY 1288	CY 1548	CY -114	CY 26566	CY 114

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unusable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with B.A.D. 1 1/4"
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut - Salvaged/Unusable Pavement Material
- 6) Expanded Fill. Factor = 1.20

- 7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material.
- 8) To be bid as part of base aggregated dense 1-1/4"

Addendum No. 01
ID 2060-00-76
Revised Sheet 290
March 5, 2019

CATEGORY	ITEM NO.	UNIT PAY	EXCAVATION COMMON	AGGREGATE DENSE 1-1/4-INCH
			205.0110	305.0120
			CY	TON
			0010	0010

LOCATION	
STA 00+77 TO STA 75+00	24,207
Undistributed EBS	4,840
GRAND TOTAL	29,047
*Quantities listed elsewhere	

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 290

E

PLOT DATE: PLOT BY: PLOT NAME: PLOT SCALE: 1:1

PROPOSED SEWER STRUCTURES					PROPOSED SEWER PIPES										REMARKS
STRUCTURE NUMBER	STATION	CENTER LINE OFFSET	COVER ELEV.	STRUCTURE TYPE	FRAME & LID	DEPTH ^A (FT)	CONNECTION STRUCTURE	PIPE SIZE (IN)	PLAN LENGTH (FT)	INVERTS INLET	OUTLET	SLOPE (F/T-F)	PIPE MATERIAL		
5	5+00	44" R	62.46	45A	NS-57	5.08	STOMH @ 5+09.11" R	12	34	59.21	58.36	0.025	CL V/RGP	CAUTION - CUC & 8" WM	
6	5+00	8" R	63.03	45A	NS-57	5.08	STOMH @ 5+09.11" R	12	9	59.78	59.75	0.003	CL V/RGP		
7	5+37	8" L	62.39	4-FT Dia. MH	NS-57	5.77	STOMH @ 5+37.8" L	12	34	58.28	57.43	0.025	CL V/RGP		
8	5+40	44" L	62.43	45A	NS-57	5.08	STOMH @ 5+37.8" L	12	36	58.18	58.28	0.025	CL V/RGP		
9	7+74	2" L	61.13	4-FT Dia. MH	NS-57	6.37	STOMH @ 7+74.2" L	12	29	56.43	56.00	0.015	CL V/RGP		
10	7+80	44" L	60.62	45A	NS-57	5.08	STOMH @ 7+74.2" L	12	45	57.37	56.43	0.021	CL V/RGP		
11	7+89	44" R	60.22	45A	NS-57	5.08	STOMH @ 7+89.12" R	12	34	56.97	56.12	0.025	CL V/RGP	CAUTION - CUC & WATER	
12	9+11	2" R	60.64	45A	NS-57	5.08	STOMH @ 9+11.11" R	12	10	57.39	57.30	0.009	CL V/RGP	CONSTRUCT NEW MANHOLE	
13	9+11	11" R	60.13	4-FT Dia. MH	58A	7.33	STOMH @ 9+11.11" R	12	25	53.46	53.46	0.018	CL V/RGP		
14	10+50	44" L	59.00	45A	NS-57	5.08	STOMH @ 10+31.28" L	12	25	55.75	55.30	0.018	CL V/RGP	CAUTION - WATER	
15	11+20	44" R	58.53	45A	NS-57	5.08	STOMH @ 11+40.11" R	12	39	55.28	54.50	0.020	CL V/RGP		
16	11+86	8" L	58.94	45A	NS-57	5.08	STOMH @ 11+40.11" R	12	50	55.69	54.60	0.022	CL V/RGP	CAUTION - WATER	
17	12+25	44" R	57.97	45A	NS-57	5.08	STOMH @ 12+66.12" R	12	52	54.72	53.55	0.023	CL V/RGP		
18	12+65	2" L	58.34	45A	NS-57	5.08	STOMH @ 12+66.12" R	12	13	55.09	54.95	0.011	CL V/RGP		
19	12+94	106.5" L	56.80	45A	NS-57	9.53	STOMH @ 13+47.100" L	12	54	49.10	47.95	0.021	CL V/RGP		
20	13+00	44" L	57.61	45A	NS-57	5.08	STOMH @ 13+46.948.5" L	12	44	54.36	52.25	0.048	CL V/RGP	CAUTION - WATER, ELEC	
21	13+37.5	1.5" R	57.75	45A	NS-57	5.08	STOMH @ 13+40.12" R	12	10	54.50	54.40	0.010	CL V/RGP		
22	13+46.9	48.5" L	57.60	4-FT Dia. MH	NS-57	7.14	STOMH @ 13+47.100" L	12	50	52.12	50.95	0.023	CL V/RGP	CAUTION - ELEC & TW	
23	13+75	52" R	57.26	45A	NS-57	5.08	STOMH @ 13+40.12" R	12	53	54.01	52.85	0.022	CL V/RGP	CAUTION - CUC & WATER	
24	13+82.5	54.7" L	57.57	45A	NS-57	5.10	STOMH @ 14+8.6.83.2" L	12	32	54.30	53.50	0.025	CL V/RGP	CAUTION - CUC	
25	14+8.6	83.2" L	56.65	4-FT Dia. MH	NS-57	4.91	STOMH @ 13+47.100" L	12	64	53.40	51.95	0.023	CL V/RGP	CAUTION - TEL	
26	15+8.8	113" R	56.86	45A	NS-57	5.09	STOMH @ 15+12.151" R	12	39	53.60	52.60	0.026	CL V/RGP	CAUTION - GAS ELEC. 8" WM TEL	
27	15+50	23.8" L	57.17	45A	NS-57	5.08	STOMH @ 15+48.17" R	12	39	50.20	49.35	0.022	CL V/RGP	CAUTION - CUC	
28	15+50	22.8" R	57.81	45A	NS-57	5.08	STOMH @ 15+48.17" R	12	5	54.56	54.40	0.032	CL V/RGP		
29	15+75	65.2" R	56.93	45A	NS-57	9.26	36" STORMSEWER @ 15+80.44" R	12	21	49.50	48.00	0.071	PVC	CAUTION - CUC, ELEC DIRECT CONNECTION TO STORMSEWER	
30	16+50	30" R	58.20	WISDOT 2'x2.5'	NS-57	2.20	STOMH @ 16+91.46" R	12	45	56.00	55.00	0.022	CL V/RGP	CAUTION - WATER MAIN	
31	17+00	22" L	57.54	45A	NS-57	10.37	STOMH @ 16+91.46" R	12	69	49.00	47.55	0.021	CL V/RGP	CAUTION - 8" WM ELEC. STR L/G	
32	17+06	82" R	58.30	45A	NS-57	5.08	STOMH @ 18+40.45" R	12	59	55.05	53.70	0.023	CL V/RGP		
33	18+22	22" L	57.85	45A	NS-57	5.08	STOMH @ 18+40.14" L	12	20	54.70	54.30	0.020	CL V/RGP	CAUTION - WATER	
34	18+25	82" R	58.25	45A	NS-57	5.08	STOMH @ 18+40.45" R	12	42	55.00	52.50	0.060	CL V/RGP		
34A	18+40	14" L	58.37	4-FT Dia. MH	58A	4.32	STOMH @ 19+58.14" L	12	117	54.05	51.70	0.020	CL V/RGP		
35	18+50	24" R	58.89	WISDOT 2'x2.5'	NS-57	2.24	STOMH @ 18+40.45" R	12	24	56.65	56.15	0.021	CL V/RGP		
36	18+75	66" R	58.69	45A	NS-57	5.08	STOMH @ 18+40.45" R	12	41	54.82	51.25	0.087	CL V/RGP		
36A	19+58	14" L	58.69	4-FT Dia. MH	58A	7.24	STOMH @ 19+67.17" L	12	10	51.45	51.25	0.020	CL V/RGP		
37	19+62.5	22" L	58.27	WISDOT 2'x2.5'	NS-57	3.25	STOMH @ 19+67.17" L	12	7	55.02	54.95	0.010	CL V/RGP	CAUTION - WATER	
38	20+10	66" R	58.46	45A	NS-57	5.12	STOMH @ 20+20.44" R	12	24	55.17	54.70	0.020	CL V/RGP		
39	21+00	83" R	58.50	WISDOT 2'x2.5'	NS-57	2.85	STOMH @ 20+20.44" R	12	23	55.65	55.15	0.022	CL V/RGP	CORREL TO SOUTH	
40	21+29.5	82" R	58.58	45A	NS-57	5.08	STOMH @ 21+23.5.84" R	12	6	55.33	55.08	0.042	CL V/RGP		
41	21+40	17" L	58.96	4-FT Dia. MH	58A	17.37	STOMH @ 21+23.5.84" R	24	43	43.25	43.83	0.026	CL V/RGP	CONSTRUCT NEW MANHOLE	
42	21+45	22" L	58.88	WISDOT 2'x2.5'	NS-57	3.25	STOMH @ 21+40.17" L	12	7	55.63	55.45	0.022	CL V/RGP	CAUTION - WATER, CUC	
43	21+51	66" R	59.03	45A	NS-57	5.08	STOMH @ 21+50.25" R	12	23	55.78	55.28	0.022	CL V/RGP	CAUTION - CUC, ELEC	
44	25+77	44" L	58.27	4-FT Dia. MH	NS-57	4.91	STOMH @ 25+77.43" L	12	54	55.02	54.60	0.008	CL V/RGP		
44A	25+62.9	2" L	59.35	WISDOT 2'x2.5'	NS-57	3.00	STOMH @ 25+77.43" L	12	43	56.35	55.43	0.021	CL V/RGP		
45	26+96	44" R	54.95	44A	NS-57	7.22	CBMH @ 27+42.45" R	12	45	51.70	50.85	0.019	CL V/RGP		
46	26+98	2" R	56.39	44A	NS-57	7.22	CBMH @ 27+42.45" R	12	60	53.14	52.00	0.019	CL V/RGP		
47	27+71	3" R	54.22	44A	NS-57	8.22	CBMH @ 27+42.45" R	12	53	49.97	48.85	0.021	CL V/RGP	CAUTION - WATER	
48	29+22	44" L	50.14	44B	NS-57	4.25	CBMH @ 29+19.7" RT	12	50	48.89	48.64	0.005	CL V/RGP	CAUTION WATER, ELECTRIC	
49	30+20	44" R	46.68	WISDOT 2'x2.5'	NS-57	3.00	CBMH @ 30+22.32" R	12	8	43.68	43.45	0.029	CL V/RGP	CAUTION - WATER	
50	32+20	44" L	41.58	WISDOT 2'x2.5'	NS-57	1.53	STOMH @ 31+91.8" R	12	59	40.05	38.85	0.020	CL V/RGP	CAUTION - TEL, ELEC. & WATER	
51	32+75	40.5" R	39.23	45A	NS-57	5.08	STOMH @ 32+32.75" R	12	66	38.98	34.65	0.020	CL V/RGP	CAUTION - 30" WATER MAIN - CORREL TO WEST	
52	34+75	38" R	30.10	45A	NS-57	5.08	STOMH @ 35+00.8" R	12	39	26.85	26.10	0.019	CL V/RGP	CAUTION - 30" WATER MAIN	
53	34+83	41" L	29.86	WISDOT 2'x2.5'	NS-57	3.26	STOMH @ 34+95.33" L	12	8	26.60	26.35	0.031	CL V/RGP	CAUTION - ELEC, WATER	
54	35+40	72" R	27.77	45A	NS-57	5.08	STOMH @ 35+53.67" R	12	16	24.52	24.20	0.020	CL V/RGP		
146B	37+69	36" L	19.2	4-FT Dia. MH	58A	4.7	STOMH @ 37+71.32" R	12	5	14.50	14.50	0.030	CL V/RGP	REPLACE EXISTING INLET WITH 4FT MH	
55	37+70	33" L	18.7	45A	NS-57	5.33	STOMH @ 37+71.32" R	12	4	13.40	13.05	0.025	CL V/RGP		
56	38+00	37" R	16.65	45A	NS-57	5.08	STOMH @ 38+96.33" R	12	4	13.40	13.05	0.025	CL V/RGP		
57	40+35	44" R	14.55	45A	NS-57	5.08	STOMH @ 40+45.33" R	12	15	11.30	11.00	0.020	CL V/RGP		
58	40+38	2" L	14.81	45A	NS-57	5.08	STOMH @ 40+45.33" R	12	33	11.56	10.85	0.022	CL V/RGP		
59	40+45	43.5" L	13.78	45A	NS-57	5.08	STOMH @ 40+45.33" L	12	11	10.53	10.30	0.021	CL V/RGP	CAUTION - WATER	

* QUANTITIES LISTED ELSEWHERE

ALL ITEMS CATEGORY 0010

DEPTH - COVER ELEVATION - LOWEST PIPE INVERT ELEVATION - SUM (FOR STORM INLET)

STATE PROJECT NO: 2060-00-76

HWY: 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET

* QUANTITIES LISTED ELSEWHERE

ALL ITEMS CATEGORY 0010

DEPTH - COVER ELEVATION - LOWEST PRE-INVERT ELEVATION - SUM (FOR STORM INLET)

CONTINUED

STATE PROJECT NO: 2060-00-76

HWY: 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET:

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PROPOSED SEWER STRUCTURES							PROPOSED SEWER PIPES							REMARKS
STRUCTURE NUMBER	STATION	CENTER LINE OFFSET	COVER ELEV.	STRUCTURE TYPE	FRAME & LID	DEPTH ^A (FT)	CONNECTION STRUCTURE	PIPE SIZE (IN)	PLAN LENGTH (FT)	INVERTS		SLOPE (FT/FT)	PIPE MATERIAL	
60	43+20	49'R	9.59	4-FT Dia. MH	MS-57	5	STO SEWER AT 43+20.44'R	15	-	4.59	4.59	0.021	CL IVRGP	CONSTRUCT NEW MANHOLE
61	43+57	44'L	8.37	45A	MS-57	5.08	STO MH 44+04.51'L	12	48	5.12	4.10	0.021	CL IVRGP	CAUTION - WATER
62	43+64	2'L	9.40	45A	MS-57	5.08	STO MH 43+20.32'L	12	54	6.15	5.40	0.014	CL IVRGP	CAUTION - ELEC
63	43+84	93'L	7.85	45A	MS-57	5.08	CB 44+12.88'L	12	26	4.60	4.25	0.013	CL IVRGP	
64	44+12	88'L	7.72	45A	MS-57	5.30	STO MH @ 44+03.5.88'L	12	21	4.25	4.02	0.011	CL IVRGP	
65	44+84.5	44'L	6.60	-	MS-57	-	-	-	-	-	-	-	-	CORBEL TO EAST
66	44+90	44'R	7.75	45A	MS-57	5.08	SMH 44+84.5.42'R	12	86	4.50	2.70	0.021	CL IVRGP	
67	46+00	44'R	9.52	45A	MS-57	5.10	SMH 46+00.34.5'R	12	9	6.25	6.15	0.011	CL IVRGP	CAUTION TELEPHONE
152A	46+00	34.5'L	9.95	4-FT Dia. MH	MS-57	4.91	SMH 45+81.5.37'L	12	17	5.10	4.85	0.015	CL IVRGP	
68	48+70	35'L	14.8	45A	MS-57	5.08	CB @ 48+70.35'R	12	68	11.55	10.00	0.023	CL IVRGP	
69	48+70	35'R	14.7	4-FT Dia. MH	MS-57	6.36	CB 48+79.5.41.5'R	12	12	10.00	9.75	0.021	CL IVRGP	
70	49+55.1	27'R	17.15	44A	MS-57	8.17	SMH 50+14.5.5.5'R	12	62	12.95	11.65	0.021	CL IVRGP	
71	50+18	73'R	19.51	44A	MS-57	8.22	SMH 50+12.60'R	12	14	15.26	14.95	0.022	CL IVRGP	
72	50+34	33'L	20.50	44A	MS-57	8.58	SMH 50+14.5.5.5'R	12	43	15.89	14.95	0.022	CL IVRGP	CAUTION - ELECTRIC AND WATER
73	50+40	85'R	19.6	4-FT Dia. MH	MS-57	8.86	SMH 50+47.58'R	12	29	12.30	11.70	0.021	CL IVRGP	
74	51+11	182.2'R	19.04	44A	MS-57	8.22	SMH 50+40.85'R	12	123	14.79	12.30	0.020	CL IVRGP	
75	51+14.8	33'R	24.42	44A	MS-57	8.22	SMH 51+42.12'R	12	34	20.17	19.45	0.021	CL IVRGP	
76	53+00	33'R	33.3	44A	MS-57	8.22	SMH 52+43.13'R	12	20	29.05	28.60	0.022	CL IVRGP	
77	53+00	33'L	32.75	44A	MS-57	7.07	SMH 52+43.13'R	12	44	29.65	28.65	0.023	CL IVRGP	CAUTION - WATER, ELEC
78	55+50	33'L	44.85	44A	MS-57	8.22	SMH 55+81.22'L	12	33	40.60	39.90	0.021	CL IVRGP	CAUTION - ELECTRIC
79	56+13.2	55.2'L	47.2	44A	MS-57	8.22	SMH 55+81.22'L	12	46	42.95	42.00	0.021	CL IVRGP	CAUTION - ELEC
80	57+89.5	79.5'L	53.32	4-FT Dia. MH	MS-57	6.83	SMH 57+73.36'L	12	29	48.15	47.50	0.022	CL IVRGP	
81	58+17	65'L	53.4	44A	MS-57	8.22	CB 57+89.5.79.5'L	12	46	49.15	48.15	0.022	CL IVRGP	
82	58+33.5	33'L	52.59	44A	MS-57	8.22	SMH 58+43.21'L	12	15	48.34	48.00	0.023	CL IVRGP	
83	62+91	42'L	53.59	44A	MS-57	12.56	SMH 62+92.9'L	12	32	45.00	44.30	0.022	CL IVRGP	
84	63+11.5	62'R	52.8	45A	MS-55	5.08	CB 63+13.33'R	12	32	49.55	48.85	0.022	PVC	CORBEL TO WEST - AWAY FROM WATER
85	63+13	32'R	52.96	4-FT Dia. MH	MS-57	5.91	SMH 62+92.9'L	12	28	48.71	48.10	0.022	CL IVRGP	Trapped MH
86	67+14	26.5'L	50.98	WISDOT 2'X2.5'	MS-57	2.50	MH 67+40.95'L	12	75	48.48	47.35	0.015	CL IVRGP	CAUTION WATER, FIBER - CORBEL TO EAST
87	67+19.6	97'L	51.95	WISDOT 2'X2.5'	MS-57	2.50	MH 67+40.95'L	12	20	49.45	49.05	0.020	CL IVRGP	CONSTRUCT TRAPPED CATCH BASIN WITH MANHOLE LID
87B	67+40	95'L	52.40	44A	58A	9.27	MH 67+30.112.5'L	12	24	47.10	46.62	0.020	CL IVRGP	CAUTION - WATER
88	68+41	25'L	49.82	44A	MS-57	12.49	SMH 68+57.14.5'L	12	18	41.30	40.90	0.022	CL IVRGP	NEW MANHOLE
89	68+57	14.5'L	50.9	5-FT Dia. MH	58A	13.45	-	30	37.45	37.45	37.45	0.025	PVC	CAUTION - WATER, ELECTRIC
90	68+60	25'R	49.07	WISDOT 2'X2.5'	MS-57	3.25	MH 68+57.14'R	12	10	45.82	45.57	0.025	PVC	
90A	68+67	14'R	50.00	44A	58A	13.77	MH 68+57.14.5'L	12	27	40.20	39.60	0.022	CL IVRGP	
91	68+63	41'L	49.67	44A	MS-57	12.59	SMH 68+57.14.5'L	12	25	41.05	40.50	0.022	PVC	CAUTION - WATER, GAS
92	69+50	25.5'L	49.07	44A	MS-57	8.22	MH 69+65.19'L	12	16	44.82	44.50	0.020	CL IVRGP	
93	69+78.1	36.5'L	49.41	44A	MS-57	8.22	MH 69+92.36'L	12	18	45.16	44.75	0.023	CL IVRGP	
94	71+50	25'R	47.16	44A	MS-57	8.22	MH 71+27.11'L	12	33	42.91	42.20	0.022	CL IVRGP	
95	71+52	25'R	48.21	44A	MS-57	8.22	MH 71+27.11'L	12	34	43.96	43.45	0.015	CL IVRGP	
96	71+64	25'L	47.55	44A	MS-57	8.22	MH 72+22.11'L	12	36	43.30	42.50	0.022	CL IVRGP	
97	72+00	39'L	47.9	44A	MS-57	8.22	MH 72+19.42'L	12	18	43.65	43.25	0.022	CL IVRGP	
98	72+10.4	65'L	48.24	44A	MS-57	8.22	MH 72+19.42'L	12	24	43.99	43.50	0.020	CL IVRGP	
99	72+67.7	25'R	46.52	44A	MS-57	8.22	MH 72+80.1'R	12	26	42.27	41.70	0.022	CL IVRGP	CAUTION WATER, CUC, TEL
1A	73+32.7	65'R	43.81	44A	MS-57	11.78	SMH 72+58.117'R	12	60	36.00	34.75	0.021	CL IVRGP	CAUTION CUC, TEL, WATER
2A	73+63	46.5'R	44.92	44A	MS-57	13.14	SMH 72+58.117'R	12	75	35.75	33.85	0.025	PVC	
3A	73+87	25'L	45.58	44A	MS-57	12.45	SMH 72+85.11'L	12	22	37.10	36.50	0.027	CL IVRGP	CAUTION WATER, TEL
4A	73+96	2'R	45.74	44B	MS-57	5.29	SMH 72+85.11'L	12	7	41.45	41.30	0.021	CL IVRGP	
4B	74+14.6	90.4'R	43.35	44A	MS-57	8.22	SMH 72+58.117'R	12	57	39.10	37.96	0.020	CL IVRGP	
5A	74+34	27'L	45.49	44A	MS-57	13.46	SMH 72+85.11'L	12	54	36.00	34.90	0.020	CL IVRGP	CORBEL TO SW - CAUTION WATER, TEL
SPV.0060.01* INLET COVERS TYPE MS 57 EACH 99														608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF 3394
SPV.0060.02* MANHOLE COVERS TYPE MS 58-A EACH 8														611.3225 INLETS 2X2.5 EACH 12
SPV.0060.03 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.04 CATCH BASINS TYPE 44B EACH 2														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.05 CATCH BASINS TYPE 45A EACH 44														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.06 INLET COVERS TYPE MS 55 EACH 1														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.07 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.08 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.09 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.10 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.11 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.12 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.13 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.14 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.15 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.16 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.17 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.18 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.19 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.20 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.21 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.22 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.23 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16
SPV.0060.24 CATCH BASINS TYPE 44A EACH 32														611.2005 MANHOLES 5-FT DIAMETER EACH 1
SPV.0060.25 CATCH BASINS TYPE 44A EACH 32														611.2004 MANHOLES 4-FT DIAMETER EACH 16

* QUANTITIES LISTED ELSEWHERE
ALL ITEMS CATEGORY 0010
^ DEPTH = COVER ELEVATION - LOWEST PIPE INVERT ELEVATION + SUMP(FOR STORM INLET)

STATE PROJECT NO: 2060-00-76

HWY: 5TH-38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SH

NEW MANHOLE COVERS					NEW MANHOLE COVERS				
GROUP CODE	No	Location	PROPOSED ELEVATION	COVER TYPE	GROUP CODE	No	Location	PROPOSED ELEVATION	COVER TYPE
0010	203	5+09	63.02	58A	0040	420	30+51	15' RT	58A
0040	401	5+16	63.03	58A	0010	235	30+67	44' RT	58A
0010	204	6+03	61.92	58A	0010	236	31+26.5	9' RT	58A
0040	205	7+95	60.78	58A	0010	237	31+16.5	28' RT	58A
0040	402	7+99	61.06	58A	0010	238	31+91	8' RT	58A
0010	206	8+30	60.83	58A	0040	239	32+59	44' RT	58A
0040	403	8+36	60.75	58A	0010	240	33+32	7.5' RT	58A
0010	404	8+46	60.25	58A	0010	241	35+00	8' RT	58A
0010	207	10+31	59.69	58A	0010	242	35+53	67' RT	58A
0010	208	10+32	59.70	58A	0010	145A	34+95	33' LT	58A
0040	405	11+31	58.76	58A	0010	146C	38+99	33' RT	58A
0010	209	11+40	59.08	58A	0010	147A	40+45	33' RT	58A
0040	406	11+48	59.04	58A	0010	243	40+45	32' LT	58A
0040	407	12+58	57.62	58A	0010	244	43+20	32' LT	58A
0010	210	12+66	58.57	58A	0010	245	44+3.5	68' LT	58A
0010	211	13+40	58.07	58A	0010	246	44+04	51' LT	58A
0010	212	13+47	58.04	58A	0010	247	45+40	37' LT	58A
0010	213	14+43	58.47	58A	0010	248	45+81.5	37' LT	58A
0040	408	14+46	58.27	58A	0010	249	46+63.5	36' LT	58A
0040	409	14+54	58.44	58A	0010	154	48+81	46' RT	58A
0040	410	14+55	58.35	58A	0010	250	50+12	60' RT	58A
0040	410	14+56	58.27	58A	0010	251	50+14.5	5.5' RT	58A
0010	215	14+61	58.35	58A	0010	252	50+47	58.0' RT	58A
0040	411	15+06	57.74	58A	0010	253	51+42	12' RT	58A
0010	216	15+12	56.28	58A	0010	254	52+93	13' RT	58A
0010	217	15+48	57.93	58A	0010	255	54+72	9' RT	58A
0040	412	15+51	57.65	58A	0010	256	55+81	22' LT	58A
0040	413	16+87.5	58.39	58A	0010	257	56+00	80' LT	58A
0010	218	16+91	58.37	58A	0010	258	56+26.5	60' LT	58A
0040	414	18+11	58.78	58A	0010	259	56+52.5	13' RT	58A
0010	219	18+40	58.89	58A	0010	260	56+67.5	23' LT	58A
0010	220	19+67	58.51	58A	0010	261	57+27	22.5' LT	58A
0040	415	19+68	59.11	58A	0010	262	57+62	42' RT	58A
0010	221	20+20	59.28	58A	0010	263	57+73	36' LT	58A
0040	416	20+55	59.07	58A	0040	421	57+73	62' LT	58A
0010	222	21+23.5	58.68	58A	0010	264	57+94	21' LT	58A
0010	223	21+40	59.77	58A	0010	265	58+43	21' LT	58A
0010	224	21+50	59.85	58A	0010	266	60+81	22' LT	58A
0010	225	23+15	61.15	58A	0010	267	61+62	23' LT	58A
0010	226	23+15	61.04	58A	0010	268	62+92	9' LT	58A
0040	417	23+44	61.75	58A	0010	269	67+30	117' LT	58A
0040	418	25+65	59.08	58A	0010	270	69+64	71' RT	58A
0010	228	26+27	57.28	58A	0010	271	69+65	19' LT	58A
0040	419	27+25	55.36	58A	0010	272	69+97	36' LT	58A
0010	229	28+97	55.36	58A	0010	273	71+27	1' LT	58A
0040	420	29+42	54.44	58A	0010	274	72+19	42' LT	58A
0010	230	27+42	54.44	58A	0010	275	72+22	1' LT	58A
0010	231	29+14	51.2	58A	0010	276	72+80	1' RT	58A
0010	232	30+01	48.34	58A	0010	277	73+58	117' RT	58A
0010	233	30+22	47.12	58A	0010	278	73+85	1' LT	58A
0010	234	30+31	47.44	58A					

STATE PROJECT NO: 2060-00-76

HWY: STH 38

FILE NAME: I:\Paving Coordination\Major Projects\W. Ford\DWG L&S\1350-00-76\Drain Table\030202_mtl_d.ppt

NEW MANHOLE COVERS					
GROUP CODE	No	Location		PROPOSED ELEVATION	COVER TYPE
		STATION	OFFSET		
0040	420	30+51	15' RT	47.12	58A
0010	235	30+67	44' RT	45.95	58A
0010	236	31+26.5	9' RT	45.54	58A
0010	237	31+16.5	28' RT	45.38	58A
0010	238	31+91	8' RT	43.47	58A
0040	239	32+59	44' RT	40.52	58A
0010	240	33+32	7.5' RT	37.7	58A
0010	241	35+00	8' RT	30.27	58A
0010	242	35+53	67' RT	28.47	58A
0010	145A	34+95	33' LT	29.94	58A
0010	147A	40+45	33' RT	14.65	58A
0010	243	40+45	32' LT	13.96	58A
0010	244	43+20	32' LT	9.45	58A
0010	245	44+3.5	68' LT	7.84	58A
0010	246	44+04	51' LT	7.77	58A
0010	247	45+40	37' LT	7.56	58A
0010	248	45+81.5	37' LT	9.7	58A
0010	249	46+63.5	36' LT	13.37	58A
0010	154	48+81	46' RT	15.5	58A
0010	250	50+12	60' RT	20.09	58A
0010	251	50+14.5	5.5' RT	21.18	58A
0010	252	50+47	58.0' RT	22.24	58A
0010	253	51+42	12' RT	26.34	58A
0010	254	52+93	13' RT	33.31	58A
0010	255	54+72	9' RT	41.72	58A
0010	256	55+81	22' LT	46.31	58A
0010	257	56+00	80' LT	48.25	58A
0010	258	56+26.5	60' LT	48.42	58A
0010	259	56+52.5	13' RT	49.2	58A
0010	260	56+67.5	23' LT	49.47	58A
0010	261	57+27	22.5' LT	51.21	58A
0010	262	57+62	42' RT	51.58	58A
0010	263	57+73	36' LT	52.41	58A
0040	421	57+73	62' LT	53.00	58A
0010	264	57+94	21' LT	52.48	58A
0010	265	58+43	21' LT	53.22	58A
0010	266	60+81	22' LT	55.55	58A
0010	267	61+62	23' LT	54.91	58A
0010	268	62+92	9' LT	54.02	58A
0010	269	67+30	117' LT	52.92	58A
0010	270	69+64	71' RT	47.02	58A
0010	271	69+65	19' LT	49.3	58A
0010	272	69+97	36' LT	49.64	58A
0010	273	71+27	1' LT	48.5	58A
0010	274	72+19	42' LT	47.95	58A
0010	275	72+22	1' LT	47.31	58A
0010	276	72+80	1' RT	46.49	58A
0010	277	73+58	117' RT	43.72	58A
0010	278	73+85	1' LT	458.87	58A

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

PLOT DATE: 2/28/2019 4:38:24 PM
PLOT BY: RSELEEN
PLOT NAME: 030202_mtl_d3
PLOT SCALE: 1:1

SHEET: 293

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Addendum No. 01
ID 2060-00-76
Revised Sheet 293
March 5, 2019

Addendum No. 01
ID 2060-00-76
Revised Sheet 294
March 5, 2019

ABANDONING DRAINAGE STRUCTURES			
NO.	LOCATION		REMARKS
	STATION	OFFSET	
105	5+05	33' R	Inlet
106	5+05	1' R	Inlet
107	5+40	9' L	Inlet
108	5+40	41' L	Inlet
109	7+90	41' L	Inlet
110	7+93	33' R	Inlet
111	7+96	6.5' L	Inlet
112	8+00	1' R	Inlet
113	8+75	33' R	Inlet
114	10+54	41' L	Inlet
115	11+28	33' R	Inlet
116	11+86	1' R	Inlet
117	12+49	32' R	Inlet
118	12+85	1' R	Inlet
121	13+39	6' R	Inlet
122	13+94	100' R	Inlet
123	13+98	53' R	Inlet
124	15+65	32' R	Inlet
125	15+80	68' R	Inlet
126	15+89	18' L	Inlet
127	16+58	31' R	Inlet
128	18+10	18' L	Inlet
130	19+19	24' R	Inlet
131	19+62.5	15' L	Inlet
134	21+46	15' L	Inlet
136	21+84	25' R	Inlet
137	21+93	38' R	Inlet
141	30+22	43' R	Catch Basin
142	32+20	33' L	Catch Basin
143	32+75	32' R	Catch Basin
146	35+44	57' R	Catch Basin
148	43+20	38' R	Catch Basin
150	43+84	70' L	Catch Basin
156	50+35	5' R	Catch Basin
160	55+79	33' L	Catch Basin
161	55+79	4.5' R	Catch Basin
162	55+93	65' L	Catch Basin
163	56+45	65' L	Catch Basin
164	57+70	54' L	Catch Basin
167	61+69	45' L	Catch Basin
168	62+85	40' R	Catch Basin
169	63+11	27' L	Catch Basin
170	63+58.5	31' R	Catch Basin
173	68+04.5	28' L	Catch Basin
175	68+68	38' L	Catch Basin
182	72+26	50' L	Catch Basin
183	72+62	24' L	Catch Basin
184	73+31	69' R	Catch Basin
185	73+97	25' L	Catch Basin
186	74+38	30' L	Catch Basin

CATEGORY
(0010 -PARTICIPATING)

204.0260
ABANDONING
INLETS
EACH
50

REMOVING INLETS		
NO.	LOCATION	
	STATION	OFFSET
119	12+96	35' LT
120	12+99	1' LT
129	18+75	68' RT
132	20+09	68' RT
132A	21+00	84' RT
133	21+29.5	84' RT
135	21+51.5	68' RT
138	25+70	30' LT
139	26+96	43' RT
140	29+20	33' LT
144	34+78	33' RT
147	40+44	42.5' LT
149	43+57	43' LT
151	44+89.5	44' RT
152	44+84.5	36.5' LT
153	46+00	34.5' RT
157	50+34	33' LT
158	53+00	5' RT
165	58+16	62' LT
166	58+35	36' LT
171	67+12	30' LT
172	67+20	97' LT
174	68+61	27' RT
176	69+52	25.5' LT
177	69+78	35' LT
178	71+50	25' RT
179	71+52	25' LT
180	71+95	25' LT
181	72+00	42' LT

CATEGORY
(0010 -PARTICIPATING)

204.0220
REMOVING
INLETS
EACH
28

STATE PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 294

E

FILE NAME: I:\PAVING COORDINATION\Major Projects\SW_Ford\DWG_Lee_Ave_1350-00-76\Drawn Table\030202_mil_d.ppt

PLOT DATE: 2/28/2019 4:38:24 PM

PLOT BY: RSELEEN

PLOT NAME: 030202_mil_04

PLOT SCALE: 1:1

Addendum No. 01
ID 2060-00-76
Revised Sheet 296
March 5, 2019

CATEGORY		TREE PLANTING														
ITEM NUMBER		Category 0010														
DESCRIPTION	LOCATION	632.0101.01	632.0101.02	632.0101.03	632.0101.04	632.0101.05	632.0101.06	632.0101.07	632.0101.08	632.0101.09	632.0101.10	632.0101.11	632.0101.12	632.9101		
		*COMMON BALDCYPRESS, B&B, 3" CAL EACH	UPRIGHT ENGLISH OAK, B&B, 3" CAL EACH	GALLERY PEAR, B&B, 3" CAL EACH	FREEMAN MAPLE, B&B, 3.5" CAL EACH	SUNBURST HONEYLOCUST, B&B, 3" CAL EACH	ACCOLADE ELM, B&B, 3" CAL EACH	JAPANESE TREE LILAC, B&B, 2.5" CAL EACH	CUMULUS SERVICEBERRY, B&B, 3" CAL EACH	KENTUCKY COFFEETREE, B&B, 3" CAL EACH	*AMERICAN HORNBEAM, B&B, 3" CAL EACH	CONCOLOR SPRUCE, B&B, 3.5" CAL EACH	DOUBLE BLOSSOM CHERRY (PINK), B&B, 3" CAL EACH			
UNIT PAY		→		4		5					1			↑		
STA 1+00 TO 4+00	LT															
STA 4+00 TO 10+00	LT										1					
STA 10+00 TO 16+00	LT							1		3						
STA 16+00 TO 22+00	LT		1		3					2	2					
STA 22+00 TO 27+00	LT				3						1					
STA 27+00 TO 33+00	LT	2	3	3					1							
STA 33+00 TO 39+00	LT			1				1								
STA 39+00 TO 45+00	LT			1	4											
STA 45+00 TO 50+00	LT	2		2	2	3										
STA 50+00 TO 56+00	LT				1											
STA 56+00 TO 62+00	LT				1			1								
STA 62+00 TO 66+00	LT															
STA 66+00 TO 71+00	LT															
STA 71+00 TO 75+00	LT											1	3			
STA 101+59 TO 103+00 (OKLAHOMA)	LT															
STA 1+00 TO 4+00	MEDIAN															
STA 4+00 TO 10+00	MEDIAN			2				3								
STA 10+00 TO 16+00	MEDIAN															
STA 16+00 TO 22+00	MEDIAN															
STA 22+00 TO 27+00	MEDIAN															
STA 27+00 TO 33+00	MEDIAN			1												
STA 33+00 TO 39+00	MEDIAN		3													
STA 39+00 TO 45+00	MEDIAN															
STA 45+00 TO 50+00	MEDIAN															
STA 50+00 TO 56+00	MEDIAN						2							2		
STA 56+00 TO 62+00	MEDIAN															
STA 62+00 TO 66+00	MEDIAN					1										
STA 66+00 TO 71+00	MEDIAN															
STA 71+00 TO 75+00	MEDIAN															
STA 101+59 TO 103+00 (OKLAHOMA)	MEDIAN															
STA 1+00 TO 4+00	RT			→				←								
STA 4+00 TO 10+00	RT				1	3										
STA 10+00 TO 16+00	RT							3								
STA 16+00 TO 22+00	RT				2		3									
STA 22+00 TO 27+00	RT			1	3	1										
STA 27+00 TO 33+00	RT			1			2	4								
STA 33+00 TO 39+00	RT		1						3							
STA 39+00 TO 45+00	RT	1			1						3					
STA 45+00 TO 50+00	RT	1														
STA 50+00 TO 56+00	RT															
STA 56+00 TO 62+00	RT			2			3									
STA 62+00 TO 66+00	RT															
STA 66+00 TO 71+00	RT															
STA 71+00 TO 75+00	RT															
STA 101+59 TO 103+00 (OKLAHOMA)	RT													↓		
TOTALS		6	8	16	21	12	14	15	1	8	8	1	3	1		

*Quantities listed elsewhere

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 296

E

2060-00-76

CATEGORY 0010

TRAFFIC CONTROL SIGNS

ITEM	SIZE	DESCRIPTION	PRE-STAGE 1A	PRE-STAGE 1B	STAGE 1	STAGE 1A	STAGE 2	TOTAL
W020-1	48"x48"	"ROAD WORK AHEAD"	5	4	15	3	15	42
R11-2	48"x30"	"ROAD CLOSED"	1	5	10	1	33	50
R11-4	60"x30"	"ROAD CLOSED TO THRU TRAFFIC"	1	0	0	0	1	2
R9-9	24"x12"	"SIDEWALK CLOSED"	1	9	13	1	1	25
R11-2-L	48"x30"	"LANE CLOSED"	2	3	15	3	2	23
G20-2A	36"x18"	"END ROAD WORK"	1	2	3	3	7	16
W20-55-A	36"x36"	"LEFT LANE CLOSED AHEAD"	1	1	7	2	4	15
W20-5-A	36"x36"	"RIGHT LANE CLOSED AHEAD"	1	2	0	0	6	9
W01-6R	24"x48"	"GO LEFT ARROW"	1	3	4	1	5	14
W01-6L	24"x48"	"GO RIGHT ARROW"	0	0	0	1	2	3
W01-4R	48"x48"	"LANE SHIFT (RIGHT)"	1	0	2	1	2	6
W01-4L	48"x48"	"LANE SHIFT (LEFT)"	0	2	2	1	3	9
R9-10	24"x12"	"SIDEWALK CLOSED USE OTHER SIDE"	2	2	8	1	3	16
W04-2R	48"x48"	"MERGE LEFT"	1	2	3	1	3	10
W04-2L	48"x48"	"MERGE RIGHT"	1	1	3	2	7	14
W06-3	48"x48"	"TWO-WAY TRAFFIC"	4	3	28	3	17	55
R5-51	30"x30"	"DO NOT ENTER"	0	0	0	0	0	0
W20-3	48"x48"	"ROAD CLOSED AHEAD"	1	2	4	0	5	12
R3-7R	36"x36"	"RIGHT LANE MUST TURN RIGHT"	0	1	3	1	2	7
W20-56A	36"x36"	"CENTER LANE CLOSED AHEAD"	0	1	1	0	0	2
W1-7	24"x12"	"GO LEFT OR RIGHT DOUBLE ARROW"	0	0	5	0	7	12
W20-58-A	48"x48"	"RIGHT TWO LANES CLOSED 500 FT"	0	0	2	1	0	3
W12-1D	24"x24"	"DOUBLE ARROW"	0	0	0	1	0	1
R3-7L	36"x36"	"LEFT LANE MUST TURN LEFT"	0	0	2	0	0	2
R1-2	36"x36"	"NO LEFT TURN SYMBOL"	0	0	1	1	2	4
R3-1	36"x36"	"NO RIGHT TURN SYMBOL"	0	0	1	2	1	4
TRAFFIC CONTROL SIGNS			24	43	132	30	128	357
643.0900 TRAFFIC CONTROL SIGNS TOTAL			360	645	14,784	600	14,336	30,725 DAY

"W0" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.

NOTE:

SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED IN THE PLAN.

Addendum No. 01
ID 2060-00-76
Revised Sheet 297
March 5, 2019

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

PLOT NAME:

PLOT SCALE: 1:1

SHEET: 297

E

2060-00-76
CATEGORY 0010

TRAFFIC CONTROL ITEMS

ITEMS	PRE-STAGE 1A		PRE-STAGE 1B		STAGE 1		STAGE 1A		STAGE 2		STAGE 2A		TOTAL	
	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY
# TRAFFIC CONTROL DRUMS (643.0300)	21	315	42	630	197	22,064	34	680	239	26,768	49	980	51,437	DAY
## TRAFFIC CONTROL BARRICADES TYPE III (643.0420)	26	390	49	735	196	21,952	21	420	226	25,312	32	640	49,449	DAY
### TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS (643.0500)	25	EACH	21	EACH	194	EACH	17	EACH	282	EACH	27	EACH	536	EACH
#### TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES (643.0600)	24	EACH	21	EACH	194	EACH	17	EACH	302	EACH	27	EACH	536	EACH
##### TRAFFIC CONTROL WARNING LIGHTS TYPE A (643.0705)	26	390	49	735	196	21,952	21	420	226	25,312	32	640	49,449	DAY
##### TRAFFIC CONTROL WARNING LIGHTS TYPE C (643.0715)	21	315	42	630	197	22,064	34	680	239	26,768	49	980	51,437	DAY
##### TEMPORARY PAVEMENT MARKING TAPE (649.0105)	0		285		856		780		4,910		700		7,531	LF
##### TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, WHITE (649.0150)	360		1,040		1,258		400		9,850		1,730		14,638	LF
##### TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, YELLOW (649.0150)	360		1,325		2,114		1,180		14,760		2,430		22,169	LF
##### TEMPORARY MARKING LINE REMOVABLE PAINT 4-INCH, WHITE (649.0105)	746		500		6,156		0		2,170		0		9,572	LF
##### TEMPORARY MARKING LINE REMOVABLE PAINT 4-INCH, YELLOW (649.0105)	1,000		0		11,036		728		3,580		0		16,344	LF
##### TOTAL TEMPORARY PAVEMENT MARKING PAINT 4-INCH (649.0105)	1,746		500		17,192		728		5,750		0		25,916	LF

ALL DRUMS HAVE ONE STEADY BURNING YELLOW LIGHT (LIGHTS ARE TO BE PAID FOR SEPERATLY UNDER THEIR APPROPRIATE BID ITEM)

ALL TYPE III BARRICADES HAVE TWO (2) FLASHING YELLOW LIGHTS (LIGHTS ARE TO BE PAID FOR SEPERATLY UNDER THEIR APPROPRIATE BID ITEM)

WHEN PLACING TEMPORARY PAVEMENT MARKING REMOVABLE TAPE, THE TAPE SHALL BE SLICED OR CUT ACROSS ITS WIDTH EVERY TWENTY FIVE (25) FEET

ALL TEMPORARY PAVEMENT MARKINGS MUST BE REMOVED PRIOR TO FINAL ACCEPTANCE OF PROJECT

SOME ITEMS FROM STAGE 1 AND 2 ARE USED IN 1A AND 2A

PEDESTRIAN ACCOMODATIONS ITEMS

CATEGORY 0010	CATEGORY 0010	CATEGORY 0010	CATEGORY 0010	CATEGORY 0010	CATEGORY 0010
644.1410.S	644.1420.S	644.1430.S	644.1601.S	SPV.0045.01	SPV.0090.20
TEMPORARY	TEMPORARY	TEMPORARY	TEMPORARY	TEMPORARY	TEMPORARY
PEDESTRIAN	PEDESTRIAN	PEDESTRIAN	CURB	CROSSWALK	PAVEMENT
SURFACE	SURFACE	SURFACE	RAMP		MARKING
ASPHALT	PLYWOOD	PLATE			TAPE
STAGE	(SF)	(SF)	(SF)	(EACH)	(DAY)
STAGE 1	200	296	480	3	76
STAGE 2	--	450	880	2	
	200	746	1,360	5	76
				223	

TEMPORARY PAVEMENT MARKING

TEMPORARY PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING
PAINT	PAINT	PAINT
24-INCH WHITE	24-INCH WHITE	24-INCH WHITE
SPV.0090.19	SPV.0090.19	SPV.0090.20
LF	LF	LF
LOCATION	0010	0010
UNDISTRIBUTED	56	76
TOTAL	56	76

Addendum No. 01
ID 2060-00-76
Revised Sheet 298
March 5, 2019

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 298

E

2060-00-76

PAVEMENT MARKING QUANTITIES				
GROUP CODE	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
0010	646.1020	MARKING LINE EPOXY 4-INCH	LF	18,380
0010	646.5020	MARKING ARROW EPOXY	EACH	13
0010	646.5120	MARKING WORD EPOXY	EACH	10
0010	646.5220	MARKING SYMBOL EPOXY	EACH	64
0010	646.7520	MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH	LF	156
0010	646.8220	MARKING ISLAND NOSE EPOXY	EACH	48
0010	SPV.0090.04	MARKING CROSSWALK EPOXY 12-INCH	LF	1705
0010	SPV.0090.05	MARKING LINE EPOXY 6-INCH WHITE	LF	12,045
0010	SPV.0090.06	MARKING STOP LINE EPOXY 24-INCH	LF	370

ALL CATEGORY 0010 (PARTICIPATING)

Addendum No. 01
ID 2060-00-76
Revised Sheet 299
March 5, 2019

CATEGORY 0010

Addendum No. 01
ID 2060-00-76
Revised Sheet 300
March 5, 2019

PROJECT NO: 2060-00-76		HWY: STH 38		COUNTY: MILWAUKEE		MISCELLANEOUS QUANTITIES		PLOT NAME: _____		PLOT SCALE: 1:11		SHEET: 300	
TOTAL		5	5	8	1	1	2	6	3013	2506	10	370	16

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	SIGNS TYPE II REFLECTIVE TYPE H [SF]	REMOVING SIGNS TYPE II [EA]	REMOVING SMALL SIGN SUPPORTS [EA]	POSTS TUBULAR STEEL 2"x2"x16" [EA]	MOVING SIGNS TYPE II POST AS SIGN # [EA]	REMARKS / NEW SIGN LOCATION
1	J4-1(2S) M3-3 M1-6	STH 38	24 X 36 24 X 12 24 X 24	6,000			634.0816	638.2102	MOUNT UP HIGH ON SIGNAL POLE
2	J4-1(2S) M3-1 M6-1	STH 38	24 X 36 24 X 12 24 X 24	6,000	1	1			MOUNT UP HIGH ON SIGNAL POLE
3	J4-1(2S) M3-3 M1-6	STH 38	24 X 36 24 X 12 24 X 24	6,000					MOUNT ON LIGHT POLE
4	J3-1(2S) M3-3 M1-6 M6-2		24 X 57 24 X 12 24 X 24	9,500					MOUNT ON SIGNAL POLE
5	J4-1(2S) M3-1		21 X 21 24 X 12 24 X 12	6,000					MOUNT ON LIGHT POLE
6	M1-6 JV2-1 MB4-5 M1-1 M1-1 MB6-2	STH 38 IH 43 IH 94	24 X 24					1	MOVE TO NEW LIGHT POLE
7	J4-1 M3-3 M1-6	STH 38						1	MOVE TO NEW LIGHT POLE
8	JV2-1 MB4-5 M1-1 M1-1 MB5-2R	STH 38 IH 43 IH 94						1	MOVE TO NEW LIGHT POLE
9	JV2-1 MB4-5 M1-1 M1-1	STH 38 IH 43 IH 94						1	MOVE TO NEW LIGHT POLE
	MB6-2 UNDISTRIBUTED							4	
TOTALS				33,500	1	1	1	4	

SHEET 1 OF 1

Addendum No. 01
ID 2060-00-76
Revised Sheet 301
March 5, 2019

REVISED 2/22/19

E

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES - PERMANENT SIGNING

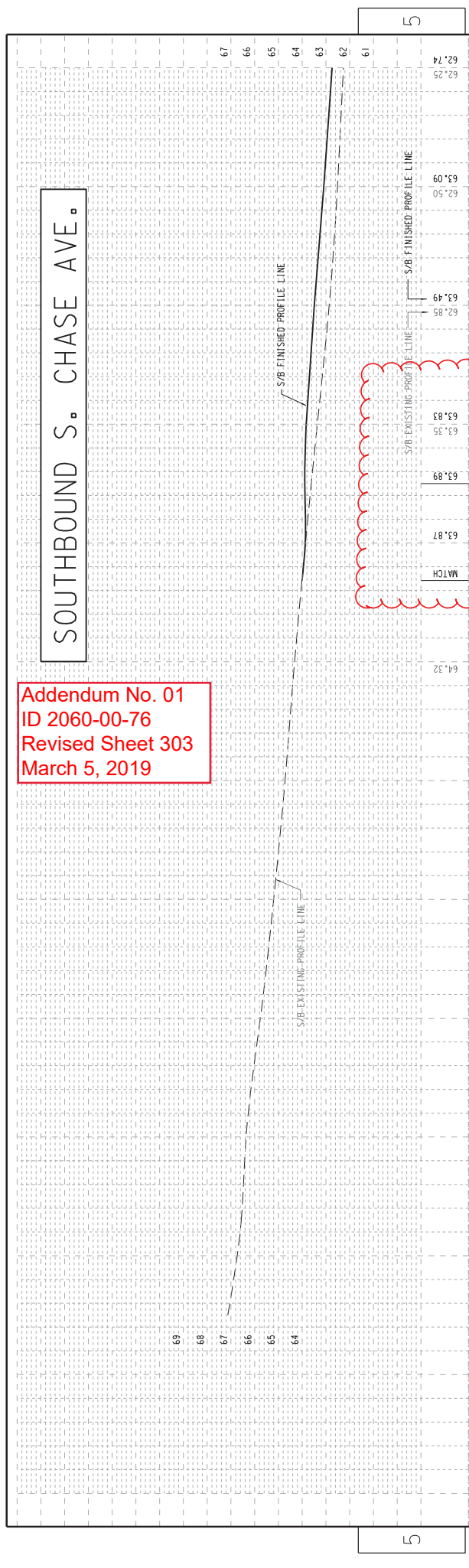
SHEET: 301

FILE NAME: N:\SPO\Operations\Signing\Miscellaneous Quantities\2060-00-76\030501_mq.pptx PLOT DATE: 21 February 2019 PLOT BY: DOTRUM PLOT NAME: 030501_mq.pdf PLOT SCALE: 1:1

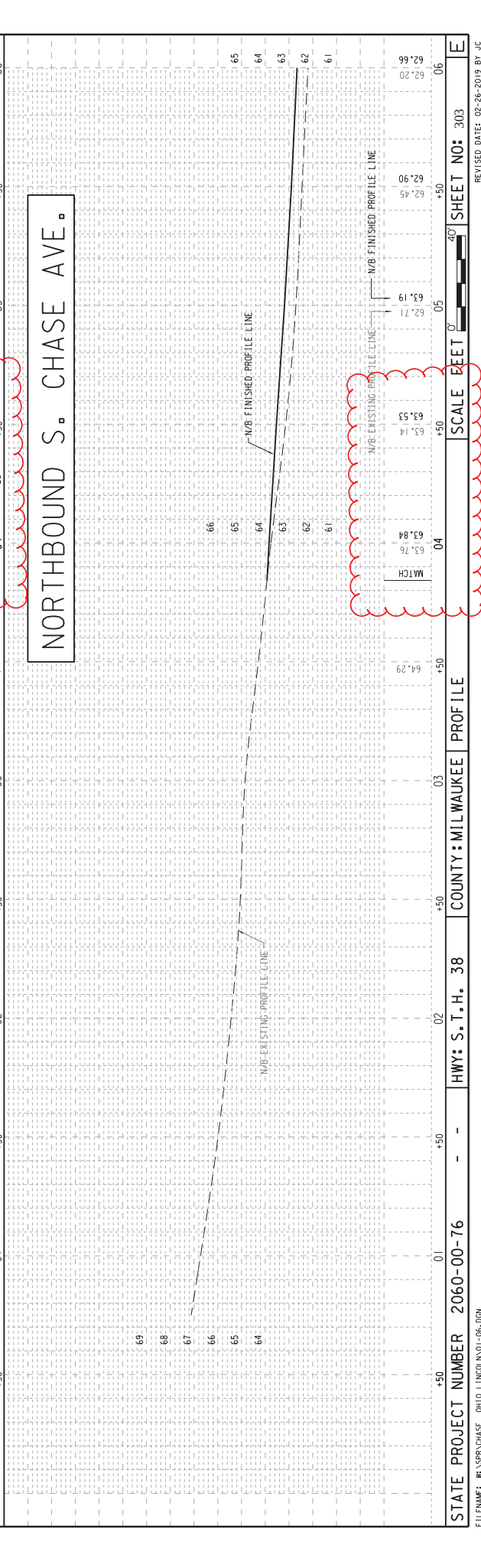


SOUTHBOUND S. CHASE AVE.

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ID 2060-00-76
Revised Sheet 303
March 5, 2019



NORTHBOUND S. CHASE AVE.

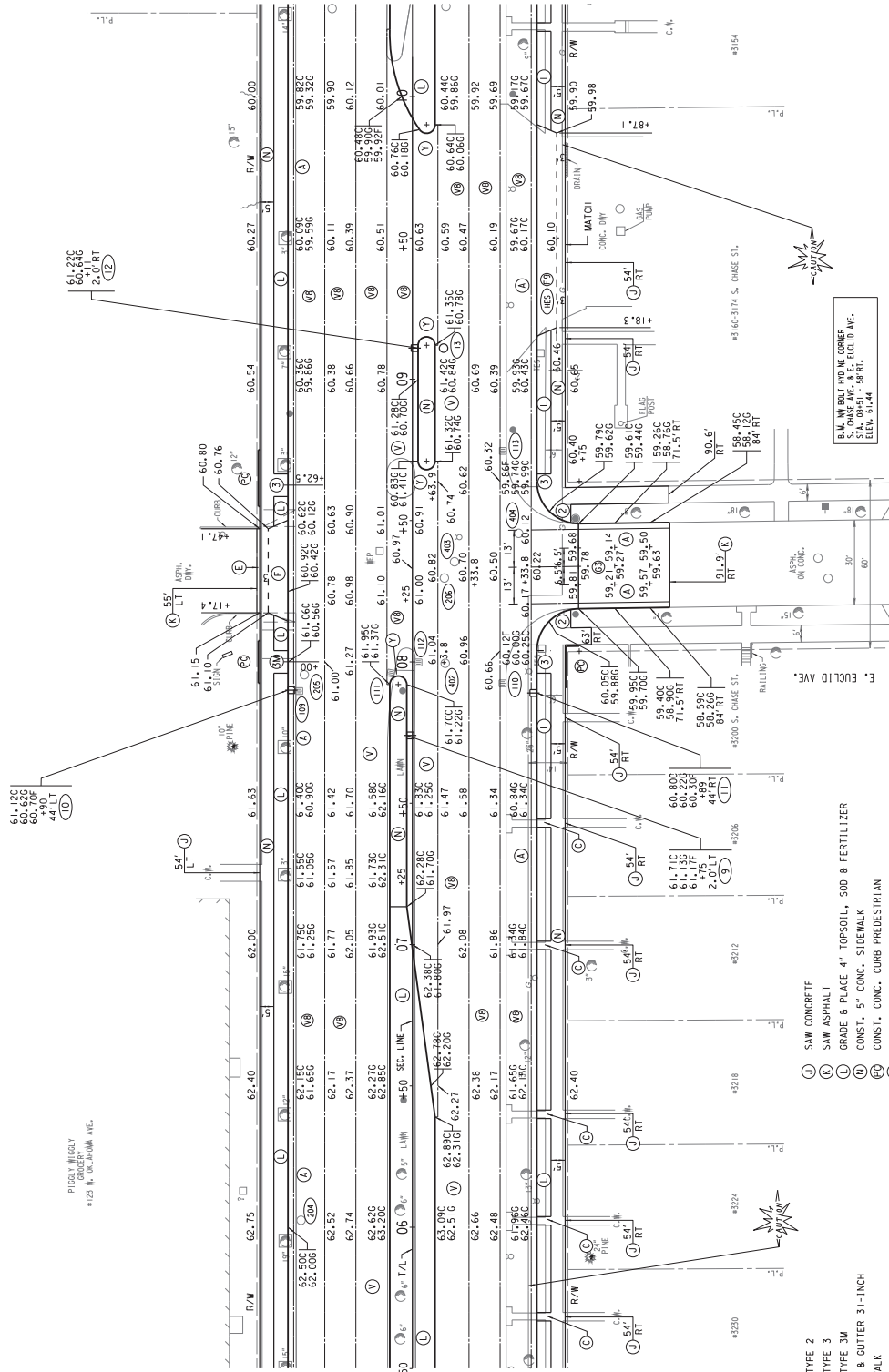


SOUTH

CHASE

AVENUE

SEE INTERSECTION DETAILS FOR
ADDITIONAL INFORMATION
ON CURB RAMPS



PIGLEY MIDDLE
CROCKERY
#123 N. EUCLID AVE.

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ID 2060-00-76
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March 5, 2019

- (2) CONST. CURB RAMP TYPE 2
- (3) CONST. CURB RAMP TYPE 3
- (4) CONST. CURB RAMP TYPE 3M
- (5) CONST. CONC. CURB & GUTTER 31-INCH
- (6) CONST. CONC. CURB PREDESTEIN
- (7) CONST. CONC. CURB PREDESTEIN
- (8) CONST. 8.5" CONC. PAVEMENT WITH INTEGRAL CURB
- (9) CONST. 8.5" CONC. PAVEMENT
- (10) CONST. CONC. DRIVEWAY FLARED (7'-IN.)
- (11) CONST. CONC. DRIVEWAY FLARED (9'-IN.)
- (12) REMOVE ASPHALT PARTIAL DEPTH TO OBTAIN 3" MIN. ASPH. OVERLAY

SEE INTERSECTION DETAILS FOR
ADDITIONAL INFORMATION
ON CURB RAMPS

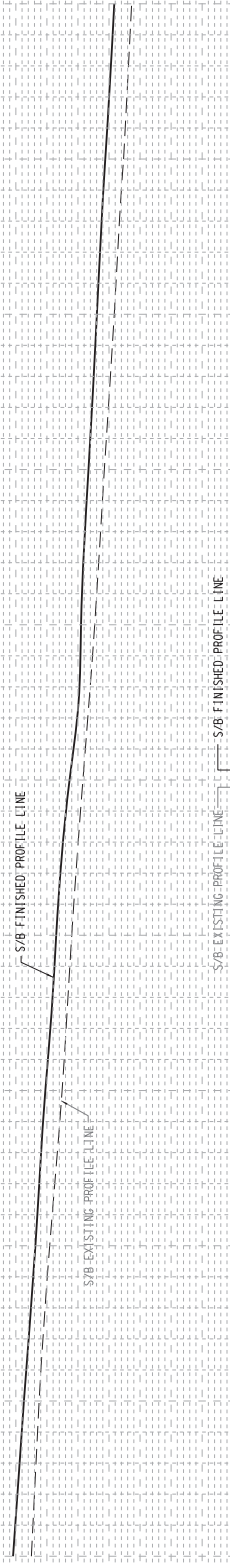
STATE PROJECT NUMBER 2060-00-76

HWY: S.T.H. 38

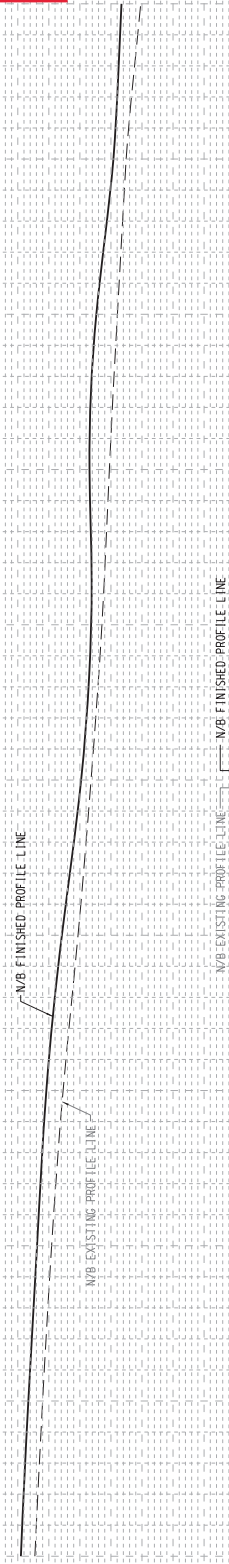
COUNTY: MILWAUKEE PLAN

SCALE FEET 0 40 SHEET NO: 304

SOUTHBOUND S. CHASE AVE.



NORTHBOUND S. CHASE AVE.



Addendum No. 01
ID 2060-00-76
Revised Sheet 305
March 5, 2019

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
0+50				
1+00				
1+50				
2+00				
2+50				
3+00				
3+50				
4+00				
4+50				
5+00				
5+50				
6+00				
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19+50				
20+00				
20+50				
21+00				
21+50				
22+00				
22+50				
23+00				
23+50				
SUB-TOTAL	412	619		

24+00	10	0	0.48	0.54
24+50	0	7	0.62	0.83
25+00	0	30	0.62	0.83
25+50	0	38	0.43	0.79
26+00	0	29	0.43	0.79
26+50	0	21	0.50	0.65
27+00	0	21	0.50	0.75
27+50	0	11	0.42	0.78
28+00	0	23	0.33	0.78
28+50	0	30	0.37	0.74
29+00	0	18	0.41	0.79
29+50	0	5	0.54	0.79
30+00	13	0	0.69	0.62
30+50	14	0	0.69	0.55
31+00	0	22	0.47	0.65
31+50	0	24	0.54	0.67
32+00	0	13	0.67	0.62
32+50	0	14	0.67	0.47
33+00	0	19	0.69	0.71
33+50	0	17	0.66	0.71
34+00	0	10	0.75	0.72
34+50	0	14	0.75	0.70
35+00	0	23	0.75	0.83
35+50	0	28	0.75	0.74
36+00	0	21	0.55	0.60
36+50	0	11	0.53	0.59
37+00	9	0	0.62	0.45
37+50	17	0	0.62	0.30
38+00	26	0	0.62	0.12
38+50	32	0	0.67	0.20
39+00	20	0	0.67	0.30
39+50	14	0	0.57	0.38
40+00	11	0	0.57	0.38
40+50	0	7	0.39	0.71
41+00	0	13	0.52	0.71
41+50	0	7	0.59	0.62
42+00	2	0	0.65	0.65
42+50	3	0	0.68	0.65
43+00	0	3	0.68	0.57
43+50	0	5	0.58	0.58
44+00	0	19	0.57	0.58
44+50	0	25	0.49	0.56
45+00	0	32	0.63	1.54
SUB-TOTAL	171	560		

45+50	0	21	0.73	0.87
46+00	17	0	0.99	0.43
46+50	24	0	0.99	0.15
47+00	14	0	0.48	0.10
47+50	7	0	0.49	0.10
48+00	0	0		
48+50	23	0	0.60	0.00
49+00	36	0	0.67	0.02
49+50	35	0	1.05	0.50
50+00	26	0	1.05	0.50
50+50	24	0	0.84	0.61
51+00	24	0	0.78	0.61
51+50	0	12	0.51	0.41
52+00	0	13	0.54	0.70
52+50	0	13	0.63	0.71
53+00	0	15	0.63	0.89
53+50	0	19	0.48	0.89
54+00	0	16	0.56	0.78
54+50	0	12	0.56	0.78
55+00	0	17	0.59	0.51
55+50	0	20	0.62	0.51
56+00	0	38	0.80	0.58
56+50	0	26	0.81	0.75
57+00	0	21	0.81	0.75
57+50	0	37	0.55	0.62
58+00	0	28	0.46	0.55
58+50	4	0	0.63	0.83
59+00	13	0	0.63	0.83
59+50	18	0	0.63	0.05
60+00	20	0	0.49	0.09
60+50	20	0	0.56	0.20
61+00	29	0	0.65	0.20
61+50	43	0	0.86	0.00
62+00	55	0	0.86	0.00
62+50	43	0	0.66	0.40
63+00	0	0	0.56	0.88
63+50	50	0	0.72	0.79
64+00	53	0	0.63	0.00
64+50	4	0	0.34	0.00
67+00	1	0	0.07	0.00
67+50	0	24	0.77	0.97
68+00	0	76	0.77	0.97
68+50	0	47	0.26	0.58
69+00	0	13	0.37	0.39
69+50	0	6	0.60	0.68
70+00	32	0	0.60	0.68
70+50	36	0	0.53	0.00
71+00	18	0	0.55	0.05
71+50	20	0	0.61	0.09
72+00	11	0	0.61	0.37
72+50	0	5	0.15	0.37
73+00	7	0	0.53	0.16
73+50	19	0	0.59	0.16
74+00	4	0	0.59	0.18
74+50	0	1	0.09	0.18
75+00	0	0		
TOTAL	1434	1546		

PROJECT NO: 2060-00-76

HWY: STH 38

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 414

PLOT NAME: _____

PLOT BY: _____

PLOT SCALE: 1:1

E



Proposal Schedule of Items

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Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

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	201.0120 Clearing	707.000 ID	_____.	_____.
0004	201.0220 Grubbing	707.000 ID	_____.	_____.
0006	204.0100 Removing Pavement	59,076.000 SY	_____.	_____.
0008	204.0105 Removing Pavement Butt Joints	2,660.000 SY	_____.	_____.
0010	204.0115 Removing Asphaltic Surface Butt Joints	440.000 SY	_____.	_____.
0012	204.0150 Removing Curb & Gutter	256.000 LF	_____.	_____.
0014	204.0155 Removing Concrete Sidewalk	12,292.000 SY	_____.	_____.
0016	204.0195 Removing Concrete Bases	13.000 EACH	_____.	_____.
0018	204.0220 Removing Inlets	28.000 EACH	_____.	_____.
0020	204.0250 Abandoning Manholes	5.000 EACH	_____.	_____.
0022	204.0260 Abandoning Inlets	50.000 EACH	_____.	_____.
0024	205.0100 Excavation Common	29,047.000 CY	_____.	_____.
0026	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	1,640.000 TON	_____.	_____.
0028	213.0100 Finishing Roadway (project) 01. 2060-00-76	1.000 EACH	_____.	_____.
0030	213.0100 Finishing Roadway (project) 02. 2110-00-72	1.000 EACH	_____.	_____.
0032	305.0110 Base Aggregate Dense 3/4-Inch	1,600.000 TON	_____.	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0034	305.0120 Base Aggregate Dense 1 1/4-Inch	31,877.000 TON	_____.	_____.
0036	320.0125 Concrete Base 6-Inch	20.000 SY	_____.	_____.
0038	415.0070 Concrete Pavement 7-Inch	210.000 SY	_____.	_____.
0040	415.0085 Concrete Pavement 8 1/2-Inch	62,377.000 SY	_____.	_____.
0042	415.0090 Concrete Pavement 9-Inch	235.000 SY	_____.	_____.
0044	415.0210 Concrete Pavement Gaps	11.000 EACH	_____.	_____.
0046	416.0170 Concrete Driveway 7-Inch	690.000 SY	_____.	_____.
0048	416.0190 Concrete Driveway 9-Inch	283.000 SY	_____.	_____.
0050	416.0270 Concrete Driveway HES 7-Inch	270.000 SY	_____.	_____.
0052	416.0290 Concrete Driveway HES 9-Inch	80.000 SY	_____.	_____.
0054	416.0610 Drilled Tie Bars	485.000 EACH	_____.	_____.
0056	416.0620 Drilled Dowel Bars	478.000 EACH	_____.	_____.
0058	455.0605 Tack Coat	20.000 GAL	_____.	_____.
0060	465.0105 Asphaltic Surface	335.000 TON	_____.	_____.
0062	520.8000 Concrete Collars for Pipe	1.000 EACH	_____.	_____.
0064	601.0150 Concrete Curb Integral Type D	10,250.000 LF	_____.	_____.
0066	601.0322 Concrete Curb & Gutter 22-Inch	30.000 LF	_____.	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0068	601.0331 Concrete Curb & Gutter 31-Inch	15,641.000 LF	_____.	_____.
0070	601.0600 Concrete Curb Pedestrian	90.000 LF	_____.	_____.
0072	602.0410 Concrete Sidewalk 5-Inch	89,163.000 SF	_____.	_____.
0074	602.0505 Curb Ramp Detectable Warning Field Yellow	120.000 SF	_____.	_____.
0076	602.0515 Curb Ramp Detectable Warning Field Natural Patina	680.000 SF	_____.	_____.
0078	602.1000 Concrete Loading Zone	135.000 SF	_____.	_____.
0080	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	8.000 LF	_____.	_____.
0082	611.0420 Reconstructing Manholes	1.000 EACH	_____.	_____.
0084	611.1003 Catch Basins 3-FT Diameter	1.000 EACH	_____.	_____.
0086	611.2004 Manholes 4-FT Diameter	14.000 EACH	_____.	_____.
0088	611.2005 Manholes 5-FT Diameter	1.000 EACH	_____.	_____.
0090	611.3225 Inlets 2x2.5-FT	12.000 EACH	_____.	_____.
0092	611.8115 Adjusting Inlet Covers	1.000 EACH	_____.	_____.
0094	619.1000 Mobilization	1.000 EACH	_____.	_____.
0096	620.0300 Concrete Median Sloped Nose	1,295.000 SF	_____.	_____.
0098	621.0100 Landmark Reference Monuments	1.000 EACH	_____.	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0100	623.0200 Dust Control Surface Treatment	54,172.000 SY	_____.	_____.
0102	624.0100 Water	200.000 MGAL	_____.	_____.
0104	625.0100 Topsoil	14,142.000 SY	_____.	_____.
0106	628.1905 Mobilizations Erosion Control	3.000 EACH	_____.	_____.
0108	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____.	_____.
0110	628.2006 Erosion Mat Urban Class I Type A	322.000 SY	_____.	_____.
0112	628.7010 Inlet Protection Type B	16.000 EACH	_____.	_____.
0114	628.7015 Inlet Protection Type C	5.000 EACH	_____.	_____.
0116	628.7020 Inlet Protection Type D	2.000 EACH	_____.	_____.
0118	629.0210 Fertilizer Type B	5.200 CWT	_____.	_____.
0120	630.0140 Seeding Mixture No. 40	5.000 LB	_____.	_____.
0122	631.1000 Sod Lawn	13,822.000 SY	_____.	_____.
0124	632.0101 Trees (species) (size) (root) 01. Common Baldcypress	9.000 EACH	_____.	_____.
0126	632.0101 Trees (species) (size) (root) 02. Upright English Oak	8.000 EACH	_____.	_____.
0128	632.0101 Trees (species) (size) (root) 03. Callery Pear	16.000 EACH	_____.	_____.
0130	632.0101 Trees (species) (size) (root) 04. Freeman Maple	21.000 EACH	_____.	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0132	632.0101 Trees (species) (size) (root) 05. Sunburst Honey Locust	12.000 EACH	_____.	_____.
0134	632.0101 Trees (species) (size) (root) 06. Accolade Elm	14.000 EACH	_____.	_____.
0136	632.0101 Trees (species) (size) (root) 07. Japanese Tree Lilac	15.000 EACH	_____.	_____.
0138	632.0101 Trees (species) (size) (root) 08. Cumulus Serviceberry	1.000 EACH	_____.	_____.
0140	632.0101 Trees (species) (size) (root) 09. Kentucky Coffeetree	8.000 EACH	_____.	_____.
0142	632.0101 Trees (species) (size) (root) 10. American Hornbeams	14.000 EACH	_____.	_____.
0144	632.0101 Trees (species) (size) (root) 11. Concolor Spruce	1.000 EACH	_____.	_____.
0146	632.0101 Trees (species) (size) (root) 12. Double Blossom Cherry (Pink Flower)	3.000 EACH	_____.	_____.
0148	632.0101 Trees (species) (size) (root) 13. Cleveland Select Pear	3.000 EACH	_____.	_____.
0150	632.9101 Landscape Planting Surveillance and Care Cycles	1.000 EACH	_____.	_____.
0152	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	1.000 EACH	_____.	_____.
0154	637.2210 Signs Type II Reflective H	33.500 SF	_____.	_____.
0156	638.2102 Moving Signs Type II	14.000 EACH	_____.	_____.
0158	638.2602 Removing Signs Type II	2.000 EACH	_____.	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	638.3000 Removing Small Sign Supports	1.000 EACH	_____.	_____.
0162	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0164	643.0300 Traffic Control Drums	53,587.000 DAY	_____.	_____.
0166	643.0420 Traffic Control Barricades Type III	49,619.000 DAY	_____.	_____.
0168	643.0500 Traffic Control Flexible Tubular Marker Posts	536.000 EACH	_____.	_____.
0170	643.0600 Traffic Control Flexible Tubular Marker Bases	536.000 EACH	_____.	_____.
0172	643.0705 Traffic Control Warning Lights Type A	49,789.000 DAY	_____.	_____.
0174	643.0715 Traffic Control Warning Lights Type C	52,337.000 DAY	_____.	_____.
0176	643.0900 Traffic Control Signs	31,535.000 DAY	_____.	_____.
0178	643.0920 Traffic Control Covering Signs Type II	1.000 EACH	_____.	_____.
0180	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0182	644.1410.S Temporary Pedestrian Surface Asphalt	680.000 SF	_____.	_____.
0184	644.1420.S Temporary Pedestrian Surface Plywood	746.000 SF	_____.	_____.
0186	644.1430.S Temporary Pedestrian Surface Plate	1,360.000 SF	_____.	_____.
0188	644.1601.S Temporary Curb Ramp	5.000 EACH	_____.	_____.
0190	646.1020 Marking Line Epoxy 4-Inch	18,640.000 LF	_____.	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0192	646.5020 Marking Arrow Epoxy	13.000 EACH	_____.	_____.
0194	646.5120 Marking Word Epoxy	10.000 EACH	_____.	_____.
0196	646.5220 Marking Symbol Epoxy	64.000 EACH	_____.	_____.
0198	646.7520 Marking Crosswalk Epoxy Ladder Pattern 24-Inch	156.000 LF	_____.	_____.
0200	646.8220 Marking Island Nose Epoxy	48.000 EACH	_____.	_____.
0202	646.9210 Marking Removal Line Water Blasting Wide	374.000 LF	_____.	_____.
0204	649.0105 Temporary Marking Line Paint 4-Inch	25,916.000 LF	_____.	_____.
0206	649.0150 Temporary Marking Line Removable Tape 4-Inch	22,169.000 LF	_____.	_____.
0208	650.4000 Construction Staking Storm Sewer	102.000 EACH	_____.	_____.
0210	650.4500 Construction Staking Subgrade	13,570.000 LF	_____.	_____.
0212	650.5500 Construction Staking Curb Gutter and Curb & Gutter	529.000 LF	_____.	_____.
0214	650.7000 Construction Staking Concrete Pavement	14,077.000 LF	_____.	_____.
0216	650.8500 Construction Staking Electrical Installations (project) 01. 2060-00-76	LS	LUMP SUM	_____.
0218	650.8500 Construction Staking Electrical Installations (project) 02. 2110-00-72	LS	LUMP SUM	_____.
0220	650.9000 Construction Staking Curb Ramps	68.000 EACH	_____.	_____.



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Contract Items

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Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0222	650.9910 Construction Staking Supplemental Control (project) 01. 2060-00-76	LS	LUMP SUM	_____.
0224	650.9910 Construction Staking Supplemental Control (project) 02. 2110-00-72	LS	LUMP SUM	_____.
0226	650.9920 Construction Staking Slope Stakes 01. 2060-00-76	13,570.000 LF	_____.	_____.
0228	652.0220 Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	155.000 LF	_____.	_____.
0230	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	427.000 LF	_____.	_____.
0232	652.0230 Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	1,388.000 LF	_____.	_____.
0234	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	8,835.000 LF	_____.	_____.
0236	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	3,395.000 LF	_____.	_____.
0238	652.0610 Conduit Special 2 1/2-Inch	44.000 LF	_____.	_____.
0240	652.0615 Conduit Special 3-Inch	1,417.000 LF	_____.	_____.
0242	652.0700.S Install Conduit into Existing Item	6.000 EACH	_____.	_____.
0244	654.0101 Concrete Bases Type 1	16.000 EACH	_____.	_____.
0246	654.0102 Concrete Bases Type 2	3.000 EACH	_____.	_____.
0248	654.0110 Concrete Bases Type 10	5.000 EACH	_____.	_____.
0250	654.0113 Concrete Bases Type 13	4.000 EACH	_____.	_____.



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Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0252	655.0230 Cable Traffic Signal 5-14 AWG	1,313.000 LF	_____.	_____.
0254	655.0260 Cable Traffic Signal 12-14 AWG	930.000 LF	_____.	_____.
0256	655.0280 Cable Traffic Signal 19-14 AWG	1,255.000 LF	_____.	_____.
0258	655.0290 Cable Traffic Signal 21-14 AWG	500.000 LF	_____.	_____.
0260	655.0305 Cable Type UF 2-12 AWG Grounded	5,785.000 LF	_____.	_____.
0262	655.0515 Electrical Wire Traffic Signals 10 AWG	834.000 LF	_____.	_____.
0264	655.0900 Traffic Signal EVP Detector Cable	1,015.000 LF	_____.	_____.
0266	657.0100 Pedestal Bases	16.000 EACH	_____.	_____.
0268	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	3.000 EACH	_____.	_____.
0270	657.0310 Poles Type 3	2.000 EACH	_____.	_____.
0272	657.0345 Poles Type 9	1.000 EACH	_____.	_____.
0274	657.0350 Poles Type 10	4.000 EACH	_____.	_____.
0276	657.0355 Poles Type 12	2.000 EACH	_____.	_____.
0278	657.0360 Poles Type 13	2.000 EACH	_____.	_____.
0280	657.0420 Traffic Signal Standards Aluminum 13-FT	1.000 EACH	_____.	_____.
0282	657.0525 Monotube Arms 25-FT	5.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0284	657.0535 Monotube Arms 35-FT	4.000 EACH	_____.	_____.
0286	657.0540 Monotube Arms 40-FT	4.000 EACH	_____.	_____.
0288	657.0545 Monotube Arms 45-FT	2.000 EACH	_____.	_____.
0290	657.0550 Monotube Arms 50-FT	2.000 EACH	_____.	_____.
0292	657.0806 Luminaire Arms Steel 6-FT	4.000 EACH	_____.	_____.
0294	658.0173 Traffic Signal Face 3S 12-Inch	22.000 EACH	_____.	_____.
0296	658.0174 Traffic Signal Face 4S 12-Inch	4.000 EACH	_____.	_____.
0298	658.0412 Pedestrian Signal Face 12-Inch	12.000 EACH	_____.	_____.
0300	658.5069 Signal Mounting Hardware (location) 01. Lincoln Avenue & 43rd St	LS	LUMP SUM	_____.
0302	658.5069 Signal Mounting Hardware (location) 02. Lincoln Avenue & 27th St	LS	LUMP SUM	_____.
0304	674.0300 Remove Cable	60.000 LF	_____.	_____.
0306	674.0400 Reinstall Cable	60.000 LF	_____.	_____.
0308	690.0150 Sawing Asphalt	1,330.000 LF	_____.	_____.
0310	690.0250 Sawing Concrete	1,737.000 LF	_____.	_____.
0312	715.0415 Incentive Strength Concrete Pavement	18,020.000 DOL	1.00000	18,020.00
0314	740.0440 Incentive IRI Ride	5,620.000 DOL	1.00000	5,620.00



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0316	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	3,000.000 HRS	5.00000	15,000.00
0318	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	4,500.000 HRS	5.00000	22,500.00
0320	SPV.0045 Special 01. Temporary Crosswalk	223.000 DAY	_____.	_____.
0322	SPV.0060 Special 01. Inlet Covers Type 57	100.000 EACH	_____.	_____.
0324	SPV.0060 Special 02. Manhole Covers Type 58A	110.000 EACH	_____.	_____.
0326	SPV.0060 Special 03. Catch Basins Type 44A	32.000 EACH	_____.	_____.
0328	SPV.0060 Special 04. Catch Basins Type 44B	2.000 EACH	_____.	_____.
0330	SPV.0060 Special 05. Catch Basins Type 45A	44.000 EACH	_____.	_____.
0332	SPV.0060 Special 06. Inlet Covers Type 55	1.000 EACH	_____.	_____.
0334	SPV.0060 Special 07. Inlet Screen Type M	99.000 EACH	_____.	_____.
0336	SPV.0060 Special 08. Inlet Screen Type R	99.000 EACH	_____.	_____.
0338	SPV.0060 Special 09. Adjusting Water Service Boxes	125.000 EACH	_____.	_____.
0340	SPV.0060 Special 10. Adjusting Water Manholes Frame and Lid	14.000 EACH	_____.	_____.
0342	SPV.0060 Special 11. Water Main Protection	26.000 EACH	_____.	_____.
0344	SPV.0060 Special 12. Poles Type-1	9.000 EACH	_____.	_____.
0346	SPV.0060 Special 13. Poles Type-3	62.000 EACH	_____.	_____.



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Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0348	SPV.0060 Special 14. Poles Type-6	4.000 EACH	_____.	_____.
0350	SPV.0060 Special 15. Poles Type-31	1.000 EACH	_____.	_____.
0352	SPV.0060 Special 16. Poles Type 12 Special	3.000 EACH	_____.	_____.
0354	SPV.0060 Special 17. Poles Type 13 Special	5.000 EACH	_____.	_____.
0356	SPV.0060 Special 18. City Precast Controller Base 36" x 21" x 20"	2.000 EACH	_____.	_____.
0358	SPV.0060 Special 19. Pull Boxes 13-Inch X 24-Inch X 24-Inch	126.000 EACH	_____.	_____.
0360	SPV.0060 Special 20. Pull Boxes 17-Inch X 30-Inch X 24-Inch	55.000 EACH	_____.	_____.
0362	SPV.0060 Special 21. Pull Boxes 17 Inch x 30 Inch x 18 Inch	8.000 EACH	_____.	_____.
0364	SPV.0060 Special 22. Water Tight Junction Box Splicing	95.000 EACH	_____.	_____.
0366	SPV.0060 Special 23. Luminaire Arm Single Member 6 Ft City-Furnished	128.000 EACH	_____.	_____.
0368	SPV.0060 Special 24. Remove Luminaire	47.000 EACH	_____.	_____.
0370	SPV.0060 Special 25. Luminaire Architectural LED 1	11.000 EACH	_____.	_____.
0372	SPV.0060 Special 26. Luminaire Architectural LED 2	10.000 EACH	_____.	_____.
0374	SPV.0060 Special 27. Luminaire Architectural LED 3	125.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0376	SPV.0060 Special 28. Luminaire Historic Milwaukee Harp LED 0	14.000 EACH	_____.	_____.
0378	SPV.0060 Special 29. Luminaire Historic Milwaukee Lantern LED 2	13.000 EACH	_____.	_____.
0380	SPV.0060 Special 30. Luminaire Utility LED 0 Wallpack	2.000 EACH	_____.	_____.
0382	SPV.0060 Special 31. Concrete Bases Type 10 Special	8.000 EACH	_____.	_____.
0384	SPV.0060 Special 32. Concrete Spread Footing	1.000 EACH	_____.	_____.
0386	SPV.0060 Special 33. Pipe Connection	1.000 EACH	_____.	_____.
0388	SPV.0060 Special 34. Utility Line Opening (ULO)	38.000 EACH	_____.	_____.
0390	SPV.0060 Special 35. Salvage Microwave Detector Assembly	3.000 EACH	_____.	_____.
0392	SPV.0060 Special 36. Install Salvaged Microwave Detector Assembly	3.000 EACH	_____.	_____.
0394	SPV.0060 Special 37. Sawing Concrete-Encased Duct Package	1.000 EACH	_____.	_____.
0396	SPV.0060 Special 38. Catmint Blue Wonder	116.000 EACH	_____.	_____.
0398	SPV.0060 Special 39. Cloud Nine Switchgrass	28.000 EACH	_____.	_____.
0400	SPV.0060 Special 40. Day Lilies	48.000 EACH	_____.	_____.
0402	SPV.0060 Special 41. Dwarf Korean Lilac	24.000 EACH	_____.	_____.
0404	SPV.0060 Special 42. Signature Bed	4.000 EACH	_____.	_____.



Proposal Schedule of Items

Page 14 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0406	SPV.0060 Special 43. Golden American Elderberry	6.000 EACH	_____.	_____.
0408	SPV.0060 Special 44. Hosta Sum & Substance	18.000 EACH	_____.	_____.
0410	SPV.0060 Special 45. Hydrangea "Annabelle"	20.000 EACH	_____.	_____.
0412	SPV.0060 Special 46. White Cone Flower	40.000 EACH	_____.	_____.
0414	SPV.0060 Special 47. Karl Forester Grass	72.000 EACH	_____.	_____.
0416	SPV.0060 Special 48. Rose "Knockout Red"	42.000 EACH	_____.	_____.
0418	SPV.0060 Special 49. Metal Pedestal Cabinet 4-Inch x 4-Inch x 36-Inch	3.000 EACH	_____.	_____.
0420	SPV.0060 Special 50. Adjusting CUC Manhole Covers	5.000 EACH	_____.	_____.
0422	SPV.0060 Special 51. 4' Diameter Manhole Type CUC	8.000 EACH	_____.	_____.
0424	SPV.0060 Special 52. 4' Diameter "Doghouse" Manhole Type CUC	1.000 EACH	_____.	_____.
0426	SPV.0060 Special 53. 4' Diameter "Doghouse" Manhole Type CUC, Installed over Conduit	1.000 EACH	_____.	_____.
0428	SPV.0060 Special 54. 5' Diameter "Doghouse" Manhole Type CUC	1.000 EACH	_____.	_____.
0430	SPV.0060 Special 55. 6' Diameter "Doghouse" Manhole Type CUC, Installed over Conduit	1.000 EACH	_____.	_____.
0432	SPV.0060 Special 56. Removing CUC Manhole	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Page 15 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0434	SPV.0060 Special 57. Installing Conduit Into Existing Manhole	6.000 EACH	_____.	_____.
0436	SPV.0060 Special 58. Luminaire Utility LED 3	12.000 EACH	_____.	_____.
0438	SPV.0060 Special 59. Internal Sanitary Manhole Seals	24.000 EACH	_____.	_____.
0440	SPV.0090 Special 01. Storm Sewer Pipe Corrugated PVC 12-Inch	163.000 LF	_____.	_____.
0442	SPV.0090 Special 02. Construction Staking Concrete Sidewalk	12,280.000 LF	_____.	_____.
0444	SPV.0090 Special 03. Liquidight Flexible Nonmetallic Conduit 1 1/2 - Inch Type B	687.000 LF	_____.	_____.
0446	SPV.0090 Special 04. Marking Crosswalk Epoxy 12-Inch	2,101.000 LF	_____.	_____.
0448	SPV.0090 Special 05. Marking Line Epoxy 6-Inch White	12,045.000 LF	_____.	_____.
0450	SPV.0090 Special 06. Marking Stop Line Epoxy 24-Inch	468.000 LF	_____.	_____.
0452	SPV.0090 Special 07. Fieldstone Boulder Wall	160.000 LF	_____.	_____.
0454	SPV.0090 Special 08. Cable Type 3#8/1#8 LTP	2,330.000 LF	_____.	_____.
0456	SPV.0090 Special 09. Cable Type 3#6/1#8 LTP	450.000 LF	_____.	_____.
0458	SPV.0090 Special 10. Cable Type 3#4/1#8 LTP	3,850.000 LF	_____.	_____.
0460	SPV.0090 Special 11. Cable Type 3#2/1#8 LTP	12,760.000 LF	_____.	_____.



Proposal Schedule of Items

Page 16 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0462	SPV.0090 Special 12. Cable Type UF 3#12 AWG With Ground	2,800.000 LF	_____.	_____.
0464	SPV.0090 Special 13. Concrete Curb & Gutter Integral 31-Inch	529.000 LF	_____.	_____.
0466	SPV.0090 Special 14. 6-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	3,013.000 LF	_____.	_____.
0468	SPV.0090 Special 15. 4-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	2,506.000 LF	_____.	_____.
0470	SPV.0090 Special 16. 3-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	10.000 LF	_____.	_____.
0472	SPV.0090 Special 17. 2-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	370.000 LF	_____.	_____.
0474	SPV.0090 Special 18. 1-Duct Conduit, Cement Encased, 4-inch Rigid Nonmetallic Conduit DB-60	16.000 LF	_____.	_____.
0476	SPV.0090 Special 19. Temporary Pavement Marking Paint 24 Inch White	56.000 LF	_____.	_____.
0478	SPV.0090 Special 20. Temporary Pavement Marking Tape 24 Inch White	76.000 LF	_____.	_____.
0480	SPV.0105 Special 01. Remove and Reinstall EVP Equipment, Lincoln Avenue & 43rd St	LS	LUMP SUM	_____.
0482	SPV.0105 Special 02. Remove and Reinstall EVP Equipment, Lincoln Avenue & 27th St	LS	LUMP SUM	_____.
0484	SPV.0105 Special 03. Video Vehicle Detection System, Lincoln Avenue & 43rd St	LS	LUMP SUM	_____.



Proposal Schedule of Items

Page 17 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0486	SPV.0180 Special 01. Joint Sealing	62,587.000 SY	_____.	_____.
0488	SPV.0195 Special 01. Management of Solid Waste	3,217.000 TON	_____.	_____.
0490	202.0110 Roadside Clearing	85.000 SY	_____.	_____.
0492	204.0170 Removing Fence	75.000 LF	_____.	_____.
0494	608.0512 Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	3,394.000 LF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.



Wisconsin Department of Transportation

March 8, 2019

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #16: 2060-00-76, WISC 2019 158
S Chase Avenue, City of
Milwaukee
Ohio Ave to Lincoln Ave
STH 38
Milwaukee County

2110-00-72, WISC 2019 160
W Lincoln Ave
Intersect with 43rd St & 27th St
Local Street
Milwaukee County

Letting March 12, 2019

This is Addendum No. 02, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress

Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
614.0700	Sand Barrel Arrays	EA	0	4	4

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
30	Construction Detail (added Sand Barrel Array detail)
286	Miscellaneous Quantities (added Sand Barrel Arrays)
316	Plan (revised based on addition of Sand Barrel Arrays)

Other

Revise the contract time for completion from 100 working days to a completion date of April 1, 2020.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist

ADDENDUM NO. 02

2060-00-76

March 8, 2019

Special Provisions

3. Prosecution and Progress.

Add the following text after paragraph seven:

Interim Liquidated Damages

Complete all contract work with all streets open to through traffic, except for monotube materials (poles, arms, signals, wiring), furnishing and planting all trees no later than 100 working days from the construction start date. Concrete bases without poles shall be protected by the contractor at their cost.

If the contractor fails to complete all contract work, except for monotube materials (poles, arms, signals, wiring), furnishing and planting all trees and open all streets to through traffic prior to 12:01 AM, November 13, 2019, the department will assess the contractor \$2070.00 in interim liquidated damages, for each calendar day that the roadways remain closed after 12:01 AM, November 13, 2019. An entire calendar day will be charged for any period of time within a calendar day that the roads remain closed beyond 12:01 AM.

Complete all monotube related work (poles, arms, signal and wiring) no later than April 1, 2020. If the contractor fails to complete all monotube related work prior to 12:01 AM, April 2, 2020, the department will assess the contractor \$2070 in interim liquidated damages, for each calendar day that the monotube work is not completed after 12:01 AM, April 2, 2020. An entire calendar day will be charged for any period of time within a calendar day that the roads remain closed beyond 12:01 AM.

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

The City of Milwaukee is committed to maintain temporary signals until final monotubes are up and running which should be no later than 4/1/2020.

Schedule of Items

Attached, dated March 8, 2019, are the revised Schedule of Items Page 17.

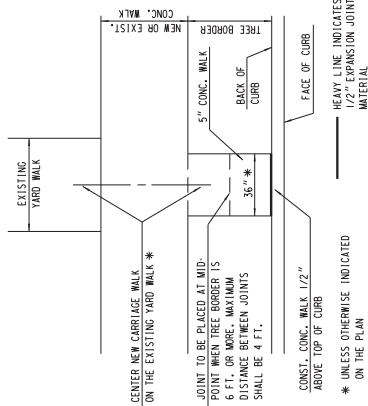
Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 30, 286, and 316.

Added:

END OF ADDENDUM

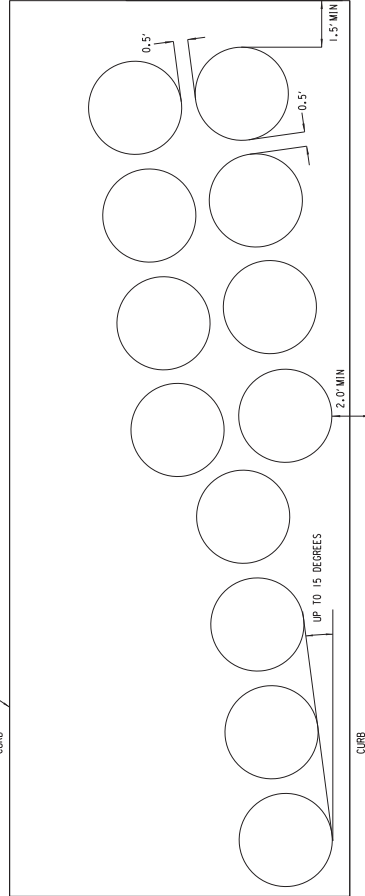


CARRIAGE WALK

③ * LOCATIONS SHOWN ON PLAN SHEETS

CONCRETE PAD
PAID FOR AS
CONCRETE SIDEWALK 5-INCH

CURB



BRIDGE
PIER

UP TO 15 DEGREES

CURB

Addendum No. 02
ID 2060-00-76
Revised Sheet 30
March 8, 2019

DIRECTION OF TRAFFIC

SAND BARREL ARRAYS

STA 36+75
STA 36+85
STA 37+00
STA 37+60

SAND BARREL ARRAYS									
CATEGORY 0010	SAND BARREL ARRAYS 614.0700	WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION			
LOCATION	EA	FT							
STA 36+75	1	4'	OM-3C (W05-58M)	TL-2	BIDIRECTIONAL	L & R			
STA 36+85	1	4'	OM-3C (W05-58M)	TL-2	BIDIRECTIONAL	L & R			
STA 37+50	1	4'	OM-3C (W05-58M)	TL-2	BIDIRECTIONAL	L & R			
STA 37+60	1	4'	OM-3C (W05-58M)	TL-2	BIDIRECTIONAL	L & R			
TOTAL	4								

CONCRETE CURB & GUTTER 22-INCH									
CONCRETE CURB & GUTTER 22-INCH 601.0322 LF									
LOCATION									
E GAUER CIRCLE									
TOTAL									

CONCRETE LOADING ZONE									
CONCRETE LOADING ZONE 602.1000 SF									
LOCATION									
OKLAHOMA AVE									
TOTAL									

PROJECT NO: 2060-00-76 HWY: STH 38 COUNTY: MILWAUKEE

LANDSCAPING ITEMS									
2060-00-76	CATEGORY 0010	ITEM NO. UNIT PAY Category	WATER 624.0100 MGAL	TOPSOIL 625.0100 SY	SOD LAWN 631.1000 SY	FERTILIZER TYPE B 629.0210 CWT			
LOCATION									
STA 0+77 TO 4+00		LT		6	6				
STA 4+00 TO 10+00		LT		610	610				
STA 10+00 TO 16+00		LT		530	530				
STA 16+00 TO 22+00		LT		280	280				
STA 22+00 TO 27+00		LT		360	360				
STA 27+00 TO 33+00		LT		480	480				
STA 33+00 TO 39+00		LT		580	580				
STA 39+00 TO 45+00		LT		350	350				
STA 45+00 TO 50+00		LT		550	550				
STA 50+00 TO 56+00		LT		1240	1240				
STA 56+00 TO 62+00		LT		1400	1400				
STA 62+00 TO 66+00		LT		180	180				
STA 66+00 TO 71+00		LT		150	150				
STA 71+00 TO 75+00		LT		0	0				
STA 101+59 TO 103+00 (OKLAHOMA)		LT		20	20				
SUBTOTALS (LEFT)				6736	6736				
STA 0+77 TO 4+00		RT		6	6				
STA 4+00 TO 10+00		RT		520	520				
STA 10+00 TO 16+00		RT		690	690				
STA 16+00 TO 22+00		RT		250	250				
STA 22+00 TO 27+00		RT		470	470				
STA 27+00 TO 33+00		RT		540	540				
STA 33+00 TO 39+00		RT		430	430				
STA 39+00 TO 45+00		RT		370	370				
STA 45+00 TO 50+00		RT		420	420				
STA 50+00 TO 56+00		RT		1170	1170				
STA 56+00 TO 62+00		RT		1220	1220				
STA 62+00 TO 66+00		RT		310	310				
STA 66+00 TO 71+00		RT		300	300				
STA 71+00 TO 75+00		RT		370	370				
STA 101+59 TO 103+00 (OKLAHOMA)		RT		20	20				
SUBTOTALS (RIGHT)				7086	7086				
GRAND TOTALS			200	13,822	13,822	5			

MISCELLANEOUS QUANTITIES

PLOT DATE: PLOT BY: PLOT NAME: PLOT SCALE: 1:1

SHEET: 286

E

Addendum No. 02
ID 2060-00-76
Revised Sheet 316
March 8, 2019

SOUTH

CHASE

AVENUE

SEE INTERSECTION DETAILS FOR
ADDITIONAL INFORMATION
ON CURB RAMP

R.M. WOOD INV.
W/S CHASE AVE.
STA. 35+02 - 35+11
LEFT 3166

N

C.W. - /PT. +50.0
54.0' LT. -32.60

30.36C
29.86C
29.86C
41.4' LT.

30.04C
29.54C

27.41C
27.24C

26.63C
26.13C

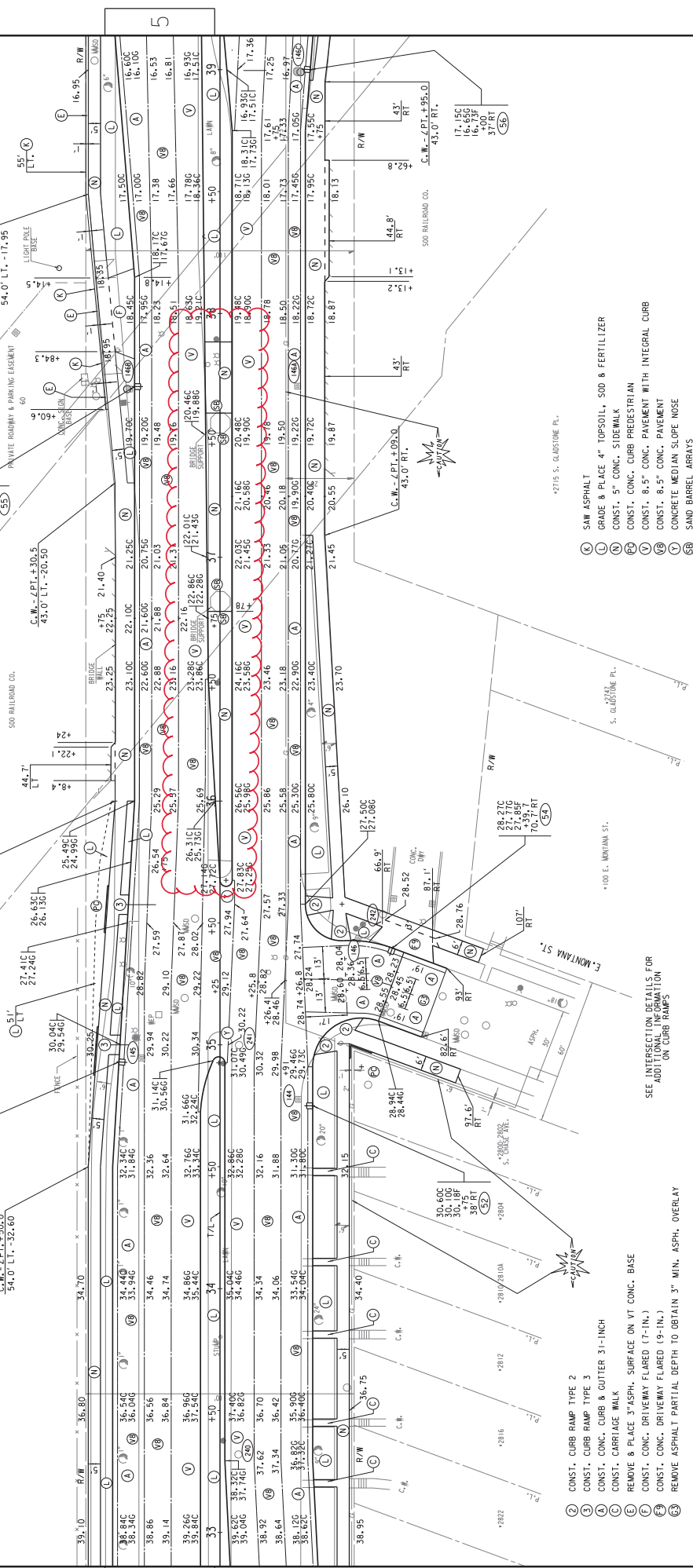
44.7' LT
+22.1

C.W. - /PT. +30.5
43.0' LT. -20.50

19.20C
18.78C
34.70

55' LT
149.0

54.0' LT. -17.95



SEE INTERSECTION DETAILS FOR
ADDITIONAL INFORMATION
ON CURB RAMP

- (K) SAW ASPHALT
- (L) GRADE & PLACE 4" TOPSOIL, SOD & FERTILIZER
- (M) CONST. 5" CONC. SIDEWALK
- (N) CONST. CONC. CURB PREDESTEIN
- (O) CONST. 8.5" CONC. PAVEMENT WITH INTEGRAL CURB
- (P) CONST. 8.5" CONC. PAVEMENT
- (Q) CONCRETE MEDIAN SLOPE NOSE
- (R) SAND BARREL ARRAYS



Proposal Schedule of Items

Page 17 of 17

Proposal ID: 20190312016 Project(s): 2060-00-76, 2110-00-72

Federal ID(s): WISC 2019158, WISC 2019160

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0486	SPV.0180 Special 01. Joint Sealing	62,587.000 SY	_____.	_____.
0488	SPV.0195 Special 01. Management of Solid Waste	3,217.000 TON	_____.	_____.
0490	202.0110 Roadside Clearing	85.000 SY	_____.	_____.
0492	204.0170 Removing Fence	75.000 LF	_____.	_____.
0494	608.0512 Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	3,394.000 LF	_____.	_____.
0496	614.0700 Sand Barrels Arrays	4.000 EACH	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

