



**PROJECT NO. 12102**

**CONTRACT SPECIFICATIONS  
FOR THE LAYING OF  
WATER MAIN,  
AND APPURTENANCES**

**PUETZ ROAD 24" TRANSMISSION WATER MAIN**

**OAK CREEK WATER AND SEWER UTILITY**

**January 16, 2013**

**170 W. Drexel Avenue  
Oak Creek, WI 53154**

**Telephone: (414) 570 - 8200  
[www.water.oak-creek.wi.us](http://www.water.oak-creek.wi.us)**

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Project Design & Construction Coordination  
Ron J. Pritzlaff, P.E.  
Utility Engineer  
Phone: (414) 570-8210

## TABLE OF CONTENTS

Notice to Bidders .....	A & B
Instruction to Bidders .....	IB-1 - IB-5
Bid Proposal .....	P-1 - P-6
Bid Bond.....	Not Included
Contract.....	Not Included
Performance Bond.....	Not Included
Detailed Specifications.....	D-1 - D-32
General Specifications.....	Eng. Dept. File
Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition.....	Eng. Dept. File
Highway and Structure Construction - Std. Specs. Dept. of Trans., Division of Highways, State of Wis. ....	Eng. Dept. File
Manual on Uniform Traffic Control Devices .....	Eng. Dept. File
Water Main Detail Drawings .....	WD-1 and 13 at the rear of Detailed Specifications
Proposed Concrete Pipe Laying Schedule and Details.....	At the rear of Detailed Specifications
Wisconsin DNR Water Main Extension Approval .....	At the rear of Detailed Specifications
Wisconsin DOT Permit.....	At the rear of Detailed Specifications
Wage Rate Determination.....	At the rear of Detailed Specifications
Construction Plans.....	At the rear of Detailed Specifications

Note: Any addenda and plans are a part of this contract volume.

**NOTICE TO BIDDERS**

**OWNER** The Oak Creek Water & Sewer Utility hereby gives notice that sealed proposals will be received in the Utility’s office at 170 W. Drexel Avenue, Oak Creek, Wisconsin, 53154.

**PROJECT** The work, officially known as Project No. 12102, PUETZ ROAD 24” TRANSMISSION WATER MAIN, consists of constructing the following approximate quantities:

<b>ITEM DESCRIPTION</b>	<b>QUANTITY</b>
24” P.C.C.P. Water Main, ¾” T.B.B.F., Surf. Rest.	360 LF
24” P.C.C.P. Water Main, Spoil B.F., Surf. Rest.	1830 LF
Connect to Existing 24” Water Main Howell Ave.	1 EA
Connect to Existing 24” Cross Liberty Lane	1 EA
Hydrant, Lead, and Valve	1 EA
8” Outlet and Flushing Station	1 EA
12” Gate Valve	1 EA
20” Butterfly Valve	1 EA
24” Butterfly Valve	4 EA
Traffic Control Project	1 LS
Inlet Protection Type C	10 EA

**TIME** Proposals must be received by the office of the Utility, 170 W. Drexel Avenue, no later than 9:00 a.m., Friday February 1, 2013, at which time and place the proposals will be publicly opened and read aloud.

**CONTRACT DOCUMENTS** Bid documents may be obtained at the Utility’s website: [www.water.oak-creek.wi.us](http://www.water.oak-creek.wi.us) under the public contracts section after January 16, 2013.

**STATUTORY PROVISIONS** The Contract letting shall be subject to the provisions of Section 62.15, 66.0901, 66.0903, and 779.16 Wisconsin Statutes. The minimum wage scale to be paid on this project shall be in accordance with the prevailing minimum wage as determined by federal or state law, whichever applies, and such wage is incorporated by reference, as it may be amended from time to time. If the United States Department of Housing and Urban Development or State of Wisconsin, Department of Workforce Development has issued a wage rate determination, then it shall apply.

**BID GUARANTEE** A certified check or bank draft payable to the Oak Creek Water & Sewer Utility, or a satisfactory bid bond, in an amount not less than

5% of the bid shall accompany each bid as a guarantee that if the bid is accepted, the bidder will execute and file the proposed contract and bond within 10 days after the award of the contract. In case the bidder fails to file such contract and bond within the time set by the Utility, the check or bid bond shall be forfeited to the Utility as liquidated damages pursuant to SS.62.15(3).

**EQUAL  
OPPORTUNITY**

The Oak Creek Water & Sewer Utility hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the ground of race, color, sex, or national origin in consideration for an award.

**BID REJECTION**

The Oak Creek Water & Sewer Utility Commission reserves the right to reject any and all bids, waive any informalities in bidding, or to accept the bid or bids, which best serves the interest of the Utility.

**BID  
WITHDRAWAL**

No bid shall be withdrawn for a period of 30 days after the scheduled opening of the bids without the consent of the Oak Creek Water & Sewer Utility Commission.

## **INSTRUCTIONS TO BIDDERS**

### **1. Proposal Forms**

No bid will be considered which is not submitted on forms furnished by the Utility Engineer.

### **2. Quantities**

The estimated quantities of the work are the result of careful calculations but are considered approximate. The quantity shown will be used as a basis for determining the lowest bidder. After the contract is awarded, the quantity of work listed under any item, or all items, may be increased or decreased according to the specifications at the discretion of the Utility Engineer, without invalidating the bid price.

The general description of bid items is provided to give bidders a brief description of the work covered under this contract, but is not meant to be all inclusive of the work and materials required to complete each item. All miscellaneous items required by the plans and specifications, although not expressly listed on the bid form, are assumed to be included on the unit prices of each general bid item. Bids will be compared on the basis of the quantities listed in the Bidding Schedule. Payment on the contract will be based on the actual, field-measured units installed.

### **3. Prior Examination of Contract Documents and Worksite**

Bidders shall inform themselves of the conditions under which work is to be performed by examining the contract documents, site, ground conditions and obstacles to be encountered in the field, and by such other means necessary. After proposal submittal, the Utility will not accept a claim that there was any misunderstanding as to the quantities, conditions, nature of the work, or extra compensation for items the Contractor failed to inform himself of prior to bidding.

### **4. Inadequacies and Omissions**

Any verbal information obtained from or statement made by representatives of the Utility at the time of the examination of the contract documents or the site for the purpose of bidding, which apparently corrects or in any way amends the contract documents shall be invalid. The Oak Creek Water and Sewer Utility will not be responsible for such verbal information or statements.

Bidders shall bring any inadequacies, omissions, or conflicts to the Utility Engineer's attention at least seven days before the due date of bids. Prompt clarification will be immediately supplied to all bidders by addenda, and each

addendum shall be acknowledged on the proposal form. Failure to so request clarification of any inadequacy, omission or conflict will not relieve the contractor of responsibility. The signing of the contract will be considered as implicitly denoting that the contractor has a thorough comprehension of the full intent and scope of the specifications and drawings.

**5. Subcontractors**

Bidders shall be required to submit a list of subcontractors with their proposal in accordance with Section 66.0901(7), Wisconsin Statutes.

This list of subcontractors shall not be added to nor altered without the written consent of the Utility Engineer. The Utility Engineer may reject proposals if the list of subcontractors and the class of work to be performed is omitted. The omission shall be considered inadvertent or a representation that the bidder will perform the work himself. If such an omission is inadvertent, the bidder shall provide the list of subcontractors within two working days from the date and time of the bid opening.

**6. Time of Performance**

When not otherwise specified, the bidder must state in the proposal the least number of calendar days (including Saturdays, Sundays and holidays) after the date to commence work given in the Notice to Proceed, in which he will start construction and the number of calendar days (including Saturdays, Sundays and holidays) after date to commence work given in the Notice to Proceed in which he will fully complete the work as specified.

In stating time, the bidder should make due allowance for all probable difficulties which may be encountered.

In the event of failure to complete the work within the time stated or otherwise specified, liquidated damages will be assessed as provided in the specifications.

**7. Proposal Guaranty**

The Oak Creek Water and Sewer Utility requires either a bid bond or a certified check of at least 5% of the bid.

**8. Requirements for Signing Proposals**

A. The full name and business address of each bidder must be entered on the proposal submitted. The proposal shall be signed in the space provided by written signature of the person or persons properly authorized to sign it.

- B. A proposal submitted by an individual shall be signed by the bidder or by an authorized agent.
- C. A proposal submitted by a firm or partnership shall be signed by a member or by an authorized agent; if by joint adventurers, the proposal shall be signed by each of their authorized agent(s).
- D. Proposals which are signed by an attorney-in-fact for individuals, firms, partnerships or joint adventurers shall have attached a power-of-attorney evidencing authority to sign the bid.
- E. A proposal submitted by a corporation shall be signed by an authorized officer or agent of such corporation. Such corporation must be licensed to do business in the State of Wisconsin before a proposal to do the work can be received. If a foreign corporation, the state under which it is incorporated must be named.

## **9. Submission of Proposal**

The proposal and the proposal guaranty shall be placed in an envelope or in separate envelopes and shall be sealed. On the envelope or envelopes shall be plainly written the PROJECT NUMBER, DATE OF OPENING BIDS, NAME OF BIDDER, AND THE TYPE AND LOCATION OF THE WORK. Such envelope(s) shall be addressed and delivered to the office of the office of the Utility before the time specified in the Notice to Bidders for opening bids.

## **10. Withdrawal of Proposal**

A bidder may withdraw a proposal, provided the Utility Engineer receives a written request prior to the deadline for accepting proposals. The proposal will be returned to the bidder unopened.

## **11. Bid Prices**

Bidders must submit a bid price, in accordance with the specifications, for each item of the job or branch, in compliance with the bidding units specified for the quantities listed in the proposal. Bid prices must be written out in words and also entered in figures. In case of variation, the written prices will prevail.

## **12. Double Bidding**

Two proposals under different names will not be accepted from one firm or association.



**13. Disqualifying of Bid Proposal**

A bid proposal will be disqualified because of gross errors in computation which cannot be resolved by mathematical correction without resorting to information not contained in the bid.

Errors in extension may be corrected providing that the unit cost is legible and can be definitely identified as complying with item specifications. The total bid shall be adjusted in accordance with approved extension corrections. An extension may not be divided by number of units specified to determine a unit cost if such is omitted by the bidder. It is the responsibility of the bidder to submit a neat, accurate and complete proposal if his bid is to be accepted.

**14. Right to Accept or Reject Bids**

The Utility reserves the unqualified right to reject any or all bids at its sole and absolute discretion, or to reject any or all bids where the Utility Engineer has determined that the contractor or bidder has unbalanced his bid and unit prices. The Utility further reserves the unqualified right to waive any irregularities in any bid, or to accept any bid which will best serve the interests of the Utility. The Utility also reserves the unrestricted privilege to reject any unit prices for additions to or deductions from the scheduled amount of work as given in the bid, if the same are considered excessive or unreasonable, or to accept any or all such unit prices which may be considered fair and reasonable.

The bid openings are open to the public, and no awards will be made immediately upon opening bids nor until the bids opened can be compared, scheduled, and reviewed by the Utility Commission. The contract shall be awarded by Utility Commission action and the bidder to whom the award is made will be notified at the earliest possible date.

**15. Performance Guaranty**

The performance of the contract must be assured by a surety bond executed by the successful bidder in the full amount of the contract. Such bond must also be executed by a surety company.

**16. Contract Execution**

Within ten days from the date of receipt of the contract forms from the Utility Attorney, the successful bidder shall sign four copies of the contract form, attach the performance guarantee of the approved licensed surety, and deliver to the office of the Utility. The contract, when signed by the Utility, and approved as to form and execution by the City Attorney, shall be a part of the contract documents. When all parties have signed the contract, the Utility will refund the proposal deposit to the successful bidder.

In case of failure to have delivered such properly executed copies of the contract within ten days, or such extension as the Utility Commission only may deem reasonable, bidder will be considered as having abandoned his proposal. Bidder will be considered in default to the Utility to the full amount of the bid deposit. It will be understood and agreed by the party submitting the proposal that such bid deposit represents the damages to which the Utility will be subjected by reason of the bidder's default in acceptance of contract, or failure to either properly execute the contract forms or deliver within the specified time of such extension.

**17. Starting Work Before Notification**

No work shall be performed under the contract and no materials or equipment shall be delivered to the site of the work prior to the date in the Utility Engineer's written Notice to Proceed.

**18. Refund of Bid Deposit to Unsuccessful Bidders**

The bid deposit of all except the two lowest bidders will be refunded after the Utility Commission has determined the lowest responsible bidder. The remaining bid deposit will be refunded upon execution of the contract.

February 1, 2013

To: The Oak Creek Water & Sewer Utility Commission

Re: Bid Proposal

In conformity with the notice to bidders, the undersigned bidder, having examined the site of the work and the contract, submits the following proposal for furnishing the material, equipment, labor and everything necessary for the completion of the work listed hereunder, and agrees to execute the proposed contract and furnish the required bond for the completion of said work, at the locations and for the prices set forth in the attached Schedules One and Two.

The undersigned bidder deposits herewith a certified check payable to the order of the Oak Creek Water and Sewer Utility, or an approved bid bond, in the sum designated in said notice, and hereby agrees that in the event the undersigned bidder shall fail to execute the contract with surety bond thereto and return the same to the Utility within ten calendar days after transmittal by the Utility, then said certified check shall be retained by and become the property of the Oak Creek Water & Sewer Utility as fixed and liquidated damages or the penalty as provided by said bond shall be recovered as liquidated damages.

It is further understood that construction on this contract shall commence and be completed as specified in the Detail Specifications.

This proposal submitted by:

\_\_\_\_\_  
Bidder Address

\_\_\_\_\_  
Phone City, State, Zip Code

Operating as: Sole Trader \_\_\_\_\_ Partnership \_\_\_\_\_ Corporation \_\_\_\_\_

Under the laws of the State of \_\_\_\_\_

By: \_\_\_\_\_ (Signature)

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

ADDENDUM RECEIPT: We acknowledge the receipt of Addenda \_\_\_\_\_ inclusive.

**SWORN STATEMENT OF BIDDER**

**PURSUANT TO SECTION 66.0901 (7) WISCONSIN STATUTES**

I, being duly sworn at \_\_\_\_\_(City),  
\_\_\_\_\_ (State), on oath, do hereby state on behalf of said bidder that I have examined and carefully prepared this proposal from the plans, specifications, the work site including surface and underground conditions, and other contract documents and have checked the same in detail before submitting this proposal; and that this sworn statement is hereby made an integral part of this proposal.

By: \_\_\_\_\_  
(Signature)

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

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_

Notary Public, \_\_\_\_\_ County

State of \_\_\_\_\_

My commission expires: \_\_\_\_\_

Affix corporate seal below.

|

**INFORMATION ON SURETY *(please fill out completely)***

Firm \_\_\_\_\_

Address, City, State, Zip Code \_\_\_\_\_

Attorney-in-fact \_\_\_\_\_

Address, City, State, Zip Code \_\_\_\_\_

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**INFORMATION ON SUBCONTRACTORS**

The undersigned bidder will employ, subject to the approval of the said owner, the following subcontractors. This list shall not be added to nor altered without the written consent of the owner. A bid shall not be invalid if the list of subcontractors and the class of work to be performed has been omitted. The omission shall be considered inadvertent or a representation that the bidder will perform the work himself. If such an omission is inadvertent, the bidder shall provide the list of subcontractors within two working days from the date and time of the bid opening.

<u>NAME</u>	<u>ADDRESS</u>	<u>CLASS OF WORK</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**LIST OF DRAWINGS**

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	Proposed Water Main Cover Sheet and Location Map
2	Proposed Water Main In: W. Puetz Road From: 500' West of S. Sunnyview Drive To: S. Liberty Lane
3	Proposed Water Main In: W. Puetz Road From: 15' West of S. Howell Avenue To: 500' West of S. Sunnyview Dr.
4, 5	Phase I Traffic Control
6, 7	Phase II Traffic Control
8	Flushing Station and Anode Detail Sheet
9	Inlet Protection Detail

Plan sheets located at end of specifications.

**Schedule Two**

Item No.	Item Description	Bid Quantity	Units	Unit Price	Total Price
1	24" PCCP Water Main, ¾" T.B. backfill, & surface restoration Unit price per lineal foot _____ dollars & _____ cents .	360	LF		
2	24" PCCP Water Main, Spoil backfill, & surface restoration Unit price per lineal foot _____ dollars & _____ cents .	1830	LF		
3	Connect to Ex. 24" Water Main Howell Unit price per each _____ dollars & _____ cents .	1	EA		
4	Connect to Ex. 24" Cross, Liberty Lane Unit price per each. _____ dollars & _____ cents .	1	EA		
5	Hydrant, Lead, and Valve Unit price per each. _____ dollars & _____ cents .	1	EA		
6	8" Outlet and Flushing Station Unit price per each. _____ dollars & _____ cents .	1	EA		
7	12" Gate Valve Unit price per each. _____ dollars & _____ cents .	1	EA		
8	20" Butterfly Valve Unit price per each _____ dollars & _____ cents .	1	EA		
9	24" Butterfly Valve Unit price per each. _____ dollars & _____ cents .	4	EA		
10	Traffic Control (Project) Unit price per Lump Sum _____ dollars & _____ cents .	1	LS		
11	Inlet Protection Type C Unit price per each. _____ dollars & _____ cents .	10	EA		

**BASE BID TOTAL ITEMS 1 - 11 INCLUSIVE \$ \_\_\_\_\_**



## DETAILED SPECIFICATIONS

### I. GENERAL

#### A. INTRODUCTION

These specifications govern the construction of water main, in the City of Oak Creek in the locations as shown on the plans.

All work performed and all materials supplied under this contract shall conform to the Contract Documents and to all specifications, codes, and ordinances either referred to or established by law.

#### B. APPLICABLE SPECIFICATIONS

The following specifications shall be applicable to all construction under this project:

1. General Specifications of the Department of Engineering, City of Oak Creek, hereinafter referred to as the General Specifications in these Detailed Specifications.
2. Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, with addendums hereinafter referred to as the Standard Specifications in these Detailed Specifications.
3. Highway and Structure Construction - Std. Specs. Dept. of Trans., Division of Highways, State of Wis., current edition and supplemental specifications hereinafter referred to as the State Specifications in these Detailed Specifications.
4. These Detailed Specifications.
5. The Construction Plans.
6. Manual on Uniform Traffic Control Devices, current edition.
7. City of Oak Creek Engineering Design Manual, current edition.

Copies of the aforementioned General, Standard and State Specifications are on file at the Engineering Department of the City of Oak Creek for use and reference on the premises by prospective bidders and by the Contractor.

The Detail Specifications and the construction plans cover items, corrections, deletions or additions to the applicable contract specifications and take precedence over those other parts of these specifications that may be in conflict herewith.

Any conflict between the various specifications and the construction plans shall be

brought to the attention of the Utility Engineer by the bidders and/or the Contractor. Where such conflict may exist, the Utility Engineer shall have the sole authority to exercise a decision as to the meaning of the bidding and contract documents. Reference shall also be made to the Instructions to Bidders of the bid and contract documents.

## C. CONTROL OF CONSTRUCTION OPERATIONS

### 1. Scheduling Work

The Contractor will not be permitted to start new phases of the project until previously started phases are fully completed or continuous work, in the opinion of the Utility Engineer, is being done to fully complete the previously started phases. However, the Contractor may with the approval of the Utility Engineer, start a second crew with a second foreman on other portions of the project. (Refer also to Sections 1.2.2 and 1.3.21 (Pages 1-10 and 1-21, respectively) of the Standard Specifications).

At any time during the execution of the contract that the Contractor either suspends or returns to work, he must notify the Utility Engineer of his intentions at least three working days in advance of said suspension or return to work.

### 2. Maintenance of Public Safety and Convenience

The Contractor shall provide for the placing of necessary detour signs, barricades, warning lights, and warning and informational signs to provide for the safety and convenience of the public prior to starting of any of the work per the State Manual on Uniform Traffic Control Devices. Adjustment to the traffic control devices shall be included and performed by the contractor as called for by the progression of work. Necessary traffic control adjustments shall be in place prior to proceeding with work that could impact the safety of the general public as determined by the Utility Engineer.

All such devices shall comply with the Federal Manual on Uniform Traffic Control Devices.

### 3. Access to Properties

The Contractor shall provide for access to the properties abutting the work site area in accordance with Section 1.7.7 (Page 1-33) of the Standard Specifications. In addition, the operations shall be conducted in such a manner that 1) all streets at all times shall be maintained with at least two lanes of roadway open for vehicular access, and 2) all abutting properties shall be provided with vehicular access overnight, on weekends and on holidays.

4. Haul Roads and Storage Areas

The Contractor shall be required to submit a plan indicating his intended location of haul roads and storage areas for equipment and materials. Such plan shall be presented at the pre-construction meeting and shall be subject to the approval of the Utility Engineer. Any subsequent proposed changes to the approved plan shall be submitted to the Utility Engineer for approval prior to implementation of the change. Construction traffic shall be permitted on pre-approved areas. All areas used for haul roads and storage shall be subject to restoration by the Contractor to the condition prior to the start of work under this contract.

**II. NOTICES AND PERMITS**

**A. GENERAL UTILITY NOTIFICATION**

Please note: Section 66.0831 of Wisconsin Statutes makes it mandatory that:

"66.0831 Interference with public service structure. A contractor with a contract for work upon, over, along or under a public street or highway may not interfere with, destroy or disturb the structures of a public utility, including a telecommunications carrier as defined in s. 196.01 (8m), encountered in the performance of the work in a manner that interrupts, impairs or affects the public service for which the structures may be used, without first obtaining written authority from the commissioner of public works or other appropriate authority. A public utility, if given reasonable notice by the contractor of the need for temporary protection of, or a temporary change in, the utility's structures, determined by the commissioner of public works or other appropriate authority to be reasonably necessary to enable the work, shall temporarily protect or change its structures located upon, over, along or under the surface of a public street or highway. The contractor shall pay or assure to the public utility the reasonable cost of the temporary structure or change, unless the public utility is otherwise liable. If work is done by or for the state or by or for any county, city, village, town sanitary district, metropolitan sewerage district created under ss. 200.01 to 200.15 or 200.21 to 200.65 or town, the cost of the temporary protection or temporary change shall be borne by the public utility."

The Contractor shall refer to Chapter 1.2.0 (Pages 1-9) of the Standard Specifications, in regard to necessary notices and permits required. These provisions shall be strictly adhered to at the start of any part of the project. In particular, the following requirements shall apply.

B. NOTIFICATION TO WE ENERGIES (Electric and Gas Utility)

In accordance with the provisions of the Wisconsin State Statutes, with regard to the maintenance of a certain clearance from energized conductors and with regard to notification where work might affect public utility facilities, it is the requirement herein that the Contractor shall be responsible for and duty-bound to notify the We Energies in writing in advance of work to be done near electric or gas facilities. Such notice shall be directed to:

We Energies – Electric Operations  
4800 W. Rawson Avenue  
Franklin, Wisconsin 53132  
Phone: (414) 423-6112

Emergency or additional notification, if any is required during construction, shall be done by contacting their office at 221-3700.

We Energies - Gas Operations  
4800 West Rawson Avenue  
Franklin, WI 53132  
Phone: (414) 423-5062

C. NOTIFICATION TO AT&T

The Contractor shall notify the communication utilities that have facilities located within the project limits of his construction schedule as it affects said each company as prescribed by the Wisconsin State Statutes.

Such notice shall be directed to the following Utilities:

AT&T  
Cable Location Plant  
435 S. 95th Street  
Milwaukee, WI 53214  
Phone: (262) 896-7434

D. NOTIFICATION TO TIME WARNER CABLE

The Contractor shall notify Time Warner Cable of his construction schedule as it affects said cable communications company as prescribed by the Wisconsin State Statutes. Notice shall be directed to:

Time Warner Cable  
5475 West Abbott Avenue  
Greenfield, WI 53220

Additional notification, if any is required during construction, shall be done by contacting their office by phone at 414/277-4280.

**E. NOTIFICATION TO CITY'S STREET, FIRE, & POLICE DEPARTMENTS, & OAK CREEK WATER & SEWER UTILITY**

Prior to starting construction within any street, three days' written notice shall be given to the following departments:

1. Street Division, 800 W. Puetz Road, (414) 768-6553
2. Fire Department, 7000 S. 6<sup>th</sup> Street, (414) 570-5630
3. Police Department, 301 W Ryan Road, (414) 768-8200
4. Oak Creek Public Schools, 7630 South Tenth Street (414) 768-5880
5. Oak Creek Water & Sewer Utility, 170 W. Drexel Avenue, (414) 570-8210

**F. OAK CREEK WATER & SEWER UTILITY WATER USE PERMIT**

The Contractor will be permitted to use the Utility water supply where available for incidental uses providing a permit is first obtained from the Oak Creek Water and Sewer Utility, 170 West Drexel Avenue, Oak Creek, Wisconsin. There will be no charge for this water use unless the amount is determined to be excessive as defined by the Utility Engineer. The included water will include water needed for filling, testing, and flushing of new water mains. If an invoice is issued and said bill is not paid by completion of the project, the amount of said bill will be deducted from the final contract payment.

**G. WORK IN EASEMENTS**

The work will be performed in an easement or by right-of-entry upon private lands. The requirements of Sections 1.7.13 and 1.7.14 (Pages 1-35 and 1-36) of the Standard Specifications and the special provisions of these specifications, if any, shall be adhered to.

The requirements of Section 1.7.14 of such Standard Specifications shall also apply to the public right-of-way between the pavement and the property line where the installation is in the public right-of-way or in an easement abutting public right-of-way.

**III. CONTRACTOR'S INSURANCE**

**A. GENERAL**

The Contractor shall not commence work under this contract until he has obtained all insurance required under this paragraph and such insurance has been approved by the Utility and insurance certificates have been filed with the Utility, nor shall the

Contractor allow any Subcontractor to commence work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved in accordance with Section 1.8.4 of the Standard Specifications and these Detailed Specification provisions.

**B. COMPENSATION INSURANCE**

The Contractor shall take out and maintain during the life of this contract, Worker's Compensation Insurance for all of his employees at the site of the project and in case any work is sublet, the Contractor shall require the Subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees, unless such employees are covered by the protection afforded by the Contractor. In case any class of employees engaged in hazardous work under this contract at the site of the project is not protected under the Worker's Compensation Statute, the Contractor shall provide and shall cause each Subcontractor to provide adequate insurance coverage for the protection of his employees not otherwise protected.

**C. PUBLIC LIABILITY, PROPERTY DAMAGE, AND CONTRACTUAL LIABILITY INSURANCE**

The Contractor shall take out and maintain during the life of this contract, public liability, property damage, and contractual liability insurance in the following minimum amounts:

Bodily Injury	\$1,000,000 per occurrence
	\$1,000,000 aggregate
Property Damage	\$500,000 per occurrence
	\$500,000 aggregate

These policies shall protect the Contractor and any Subcontractor performing work covered by this contract from the claims and damages for personal injury, including accidental death, as well as claims for property damage, which may arise from the performance of the work or under the hold-harmless and indemnifying clauses which are a part of this contract. The said policies are to cover not only the Contractor or Subcontractor but also any other directly or indirectly employed by either of them.

**D. INSURANCE AGAINST THE FOLLOWING SPECIAL HAZARDS**

The following respective amounts shall be procured by the Contractor or Subcontractor before the commencement of any operation by the Contractor, or the happening of any circumstance creating or tending to create the particular special hazard:

<u>Kind</u>	<u>Amount</u>
Operating of elevators or hoists .....	\$25,000.00
Use and operation of automobiles and truck .....	\$25,000.00
Structural alterations or demolitions .....	\$25,000.00
Undermining adjacent structures.....	\$10,000.00
Blasting operations .....	\$10,000.00
Operation of excavating machinery in streets and highways .....	\$10,000.00
Operation within other public or private right-of-way (including railroad right-of-way) .....	As Required

**IV. PERFORMANCE BOND AND GUARANTEE**

Where the contract is over \$10,000.00, the contractor will be required to furnish a satisfactory performance bond in the amount of 100% of the contract. The Contractor shall pay the total cost of this bond. Such bond shall be executed by an authorized surety company and shall remain in full force and effect for a period of one year after the final payment for the work to guarantee workmanship and materials. A performance bond shall not be required for public works contracts below \$10,000.00 regardless of bond requirement.

The Contractor shall agree and guarantee that the material and workmanship supplied by him shall be free from all defects, and strictly in accordance with the plans and specifications, at the time of its completion and acceptance by the municipality, and for a time of one year thereafter, the Contractor agrees to forthwith repair the same upon notification by the municipality using the same material required by these specifications. In case the Contractor shall fail to make such repairs or cause the same to be made, the Contractor agrees and guarantees to pay on demand the cost thereof, to said municipality upon the completion of such repairs, and the Contractor further agrees and guarantees to pay for all labor and material used in or about the construction of said work in his contract, which may become a lien or a claim against the municipality.

**V. METHOD OF PAYMENTS**

Payments will normally be made monthly throughout the progress of the work, provided the work completed is substantial enough in the opinion of the Utility Engineer.

Substantial completion of water main construction shall be considered to include all flushing and testing of the mains including pressure tests and safe water samples. Partial and final payments will not be made until such time that all work is substantially completed including testing and accepted by the approving agencies.

Such payments shall be in accord with Section 66.0901 (9) b, of the State Statutes which states that the City,

“(b) Retained percentages. As the work progresses under a contract involving \$1,000 or more for the construction, execution, repair, remodeling

or improvement of a public work or building or for the furnishing of supplies or materials, regardless of whether proposals for the contract are required to be advertised by law, the municipality, from time to time, shall grant to the contractor an estimate of the amount and proportionate value of the work done, which entitles the contractor to receive the amount of the estimate, less the retainage, from the proper fund. The retainage shall be an amount equal to not more than 5% of the estimate until 50% of the work has been completed. At 50% completion, further partial payments shall be made in full to the contractor and no additional amounts may be retained unless the architect or engineer certifies that the job is not proceeding satisfactorily, but amounts previously retained shall not be paid to the contractor. At 50% completion or any time after 50% completion when the progress of the work is not satisfactory, additional amounts may be retained but the total retainage may not be more than 10% of the value of the work completed. Upon substantial completion of the work, an amount retained may be paid to the contractor. When the work has been substantially completed except for work which cannot be completed because of weather conditions, lack of materials or other reasons which in the judgment of the municipality are valid reasons for noncompletion, the municipality may make additional payments, retaining at all times an amount sufficient to cover the estimated cost of the work still to be completed or may pay out the entire amount retained and receive from the contractor guarantees in the form of a bond or other collateral sufficient to ensure completion of the job. For the purposes of this section, estimates may include any fabricated or manufactured materials and components specified, previously paid for by the contractor and delivered to the work or properly stored and suitable for incorporation in the work embraced in the contract. "

## **VI. MATERIALS - GENERAL**

In accordance with Utility purchasing policy, the Contractor is requested to use American products in the performance of the contract whenever the quality and the price are comparable with other goods.

## **VII. MATERIALS FOR WATER MAINS**

### **A. SPECIFICATIONS FOR DUCTILE IRON WATER MAIN PIPE**

1. All Ductile Iron Pipe (DIP) water main to be used shall be CL 52 as specified herein and in Chapter 6.18.0 of the Standard Specifications.
2. Valves and cement-lined cast gray iron or cast ductile iron fittings as specified in Chapter 8.22.0 of the Standard Specifications, shall be furnished unless otherwise specified on the construction plans or herein the Detail Specifications. All fittings and valves shall have push-on joints unless otherwise specified on the construction plans or herein the Detail Specifications. All fittings shall be cement lined, identical to the lining of ductile iron pipe. The fittings shall conform to A.W.W.A., C110 or A.N.S.I., A21.10.



The cement lining shall conform to A.W.W.A. C104 or A.N.S.I., A.21.4. An outside bituminous coating conforming to A.W.W.A. C151, but to a thickness of 2 to 4 mils average and 2 mils minimum, shall be provided, identical to the outside coating of ductile iron pipe.

3. Rubber gaskets shall be bundled in water repellent covering and packaged in a cardboard box or wooden crate. Bell lubricant shall be supplied by the manufacturer in vacuum sealed cans properly identified by label. Sufficient lubricant shall be supplied to effectively lubricate each joint.
4. Materials Tests on Pipe, Fittings and Valves - The manufacturer shall inspect all pipe and fittings and shall provide certified copies of complete test and inspection reports to the Utility Engineer, in accordance with the Standard Specifications, covering: description, hydrostatic tests, physical properties, chemical analysis and coating analysis.
5. An anchoring tee, Clow F-1221 (push-on joints on the run) or equal, with a roto-ring retainer gland shall be provided on the water main at all hydrant lead connections where is proposed to have the auxiliary hydrant valve connected directly to the main tee.
6. All water main, including all fittings and valve and curb boxes, shall be double wrapped with polyethylene. The polyethylene shall comply with the requirements of Chapter 8.21.0 of the Standard Specifications.
7. All water main pipe shall be 150 psi rated water working pressure. All fittings shall be 250 psi rated water working pressure. All gate valves shall be 200 psi rated water working pressure and all butterfly valves shall be 150 psi rated water working pressure.

#### B. SPECIFICATIONS FOR PVC WATER MAIN

1. All polyvinyl chloride (PVC) water pipe shall conform to the requirements of Chapter 8.20.0 of the Standard Specifications. Polyvinyl chloride pipe may be used only on water mains of 12" or smaller in size unless otherwise specified on the construction plans or herein the Detailed Specifications.
2. All pipe 8" and larger (if specifically allowed), shall be Class 150 with a standard dimension ratio of 18; all pipe 6" and smaller shall be Class 200 with a standard dimension ratio of 14.
3. All fittings shall conform to the requirements provided for under the Specifications for Ductile Iron Water Main Pipe of these Detailed Specifications.
4. All polyvinyl chloride (PVC) water pipe supplied shall be manufactured by one of the following companies:

- a. Cantex Industries (Division of Harsco Corp.)
- b. H & W Industries, Inc.
- c. J.M. Corporation
- d. CAPCO
- e. North Star
- f. Sceptor

C. SPECIFICATIONS FOR PRESTRESSED CONCRETE PRESSURE PIPE

Prestressed Concrete Cylinder Pipe and Specials shall be of the type known as "Prestressed Concrete Pressure Pipe, Steel Cylinder Type, for Water and Other Liquids", and shall conform to AWWA Standard C-301-92, or latest revision.

The pipe shall be made by a manufacturer experienced in producing pipe of the type, size, and quality specified herein. The pipe manufacturer shall have produced pipe having a record of at least five years successful performance.

1. Manufacture

The pipe shall be manufactured in accordance with AWWA C-301-92, or latest revision, with the following additions and/or exceptions:

- a. Steel for cylinder shall not be less than 16 gauge.
- b. High Tensile wire shall not be less than No. 6 gauge.  
The maximum class of wire shall be class III.
- c. Mortar for the pipe coating shall consist of one part cement to two and one half (2½) parts fine aggregate. Rebound may be used in accordance with Section 3.9.2 of AWWA C-301, but shall be counted as fine aggregate only.
- d. A cement slurry consisting of one (1) bag of cement to not more than 8 gallons of water shall be applied concurrently with mortar coating by a dual nozzle system at a coverage rate of 60 +/- 20 square feet/gallons.
- e. The pipe manufacturer shall provide pipe design calculations, drawings showing full details of reinforcement, concrete and joint dimensions for the pipe and fittings, and a tabulated layout schedule. Pipe and fittings shall not be manufactured until the calculations, drawings and layout have been approved by the engineer. Approval does not relieve the contractor of the responsibility to insure that the pipe is installed as intended by the specifications and contract drawings.

2. Design

The design of the pipe shall be in accordance with AWWA C-304-92, or latest revision.

The pipe shall be designed for a working pressure 100 pounds per square inch, and the maximum trench loading in accordance with the trench detail shown on the contract plans, which will be applied after backfill is in place, plus an allowance for water hammer and live load, whichever is greater, as stipulated in AWWA C-301 or was anticipated in pipe line operation.

3. Fittings and Specials

Elbows, tees and reducers shall be of non-prestressed cylinder type construction and details of their reinforcement shall be submitted to the Engineer for approval prior to their manufacture. All shorts and closure cylinders shall be designed for the maximum pressure and overburden conditions so as to permit their use at any location along the entire line.

All materials and workmanship shall be as provided in the latest AWWA Standard No. C-301.

Curves of long radius may be formed by the deflection of each joint, by the use of pipe on which the spigot joint rings are placed on a bevel or by the use of bevel adapters. Special pipes shall be designed to provide the same strength as the adjacent pipe. Elbows and tees shall be of cylinder type construction. Branch connection or openings, such as air valves and blow-offs, shall be incorporated in straight pipe and shall be suitable reinforced. Special pipes shall be provided with joint rings corresponding to those on adjoining straight pipes. Special ends shall be provided on the concrete pipe, where required, to connect to valves or pipe of other manufacturers.

4. Thrust Restraint

All horizontal and vertical bends, requiring restraint, shall be restrained with harnessed joints, and shall be designed to withstand the load applied under total design pipe pressure. The thrust restraint design and calculation responsibilities shall extend to all horizontal and vertical changes in grade, including connection points and dead ends. The restraint provided shall be adequate to restrain the pipe in all valving scenarios

The maximum allowable longitudinal stress shall not exceed 13,500 psi for working pressure and 18,000 psi for transient pressure or less as recommended by the pipe manufacturer.

An example of thrust restraint calculations and methods can be found by referencing Concrete Pressure Pipe (AWWA M9) by the American Water Works Association, Manual of Water Supply Practices. Thrust restraint

calculations shall be submitted to Engineer for review prior to installation.

D. BUTTERFLY AND GATE VALVES

All butterfly valves (16" diameter and larger valves are to be butterfly valves) furnished shall be one of the following:

1. Clow
2. Dresser
3. Mueller
4. Pratt

All gate valves (3" through 12" diameter valves are to be gate valves) are to be the resilient wedge-type valve.

All resilient wedge-gate valves furnished shall be one of the following:

1. Clow - R.W.
2. Kennedy - R.W.
3. M & H - R.S.C.V.
4. Mueller - R.W.
5. Waterous - 500

All valves shall open counterclockwise.

E. VALVE BOX ADAPTORS

All valve boxes, both gate and butterfly, shall be set upon the valve with the use of an adaptor, as manufactured by Adaptor, Incorporated, or an approved equal. The adaptor shall be installed in lieu of hardwood blocking and shall be incidental to the valve and box installation.

F. MECHANICAL JOINTS

Wherever mechanical joints are to be installed, as specified, the bolts and nuts shall be Core-Blue, Durabolt or an approved equal and all fittings shall be triple polyethylene wrapped in accordance with the Standard Specifications.

G. HYDRANT ASSEMBLY

Hydrant and hydrant leads shall be installed in accordance with Section 4.8.5 of the Standard Specifications and WD-13. The pipe materials shall be either ductile iron or polyvinyl chloride in accordance with these Detailed Specifications. All hydrant, hydrant extension and hydrant valve materials shall be furnished by the Contractor.

All hydrants shall be furnished with a 5-1/4" main valve, a 1-3/4" pentagon-shaped operating nut with two each of 2-1/2" and one each of a 4-1/2" National Standard Thread nozzles. All hydrants furnished and installed shall be one of the following:

1. Clow Model 2500
2. Kennedy Guardian K81A
3. Mueller Centurian

Hydrant Valves shall be a resilient wedge-gate valve meeting the requirements outlined above in Section D – Butterfly and gate valves.

**I. COMPACT FITTINGS**

Compact fittings in accordance with the Standard Specifications and AWWA/ANSI C-110/A21.10 are permitted.

**J. SERVICE CONNECTIONS TO 24” MAIN**

The following materials shall be used for the Corporation stop:

Corporation Stops: Mueller H-15000

**K. BEDDING MATERIALS AND BACKFILL MATERIALS**

All bedding and backfill materials used shall conform to Chapter 8.43.0 of the Standard Specifications. Backfill shall consist of mechanically compacted 3/4" graded crushed limestone (T.B.). The stone shall comply with the requirements of Section 8.43.7 and Table 39 of Standard Specifications. Mechanical compaction shall comply with the requirements of Section 2.6.14(b)(1), both of the Standard Specifications.

All water main shall have torpedo sand bedding and cover to 6" above the pipe. The sand shall comply with the requirements of Section 8.43.2(c).

**L. TRACER WIRE**

All water main shall include a 10 gauge solid, blue coated copper tracer wire to be taped to each pipe. Tape shall be securely fastened to main, hydrant leads and hydrants. Additionally, the tracer wire shall be looped from the main through a 4 foot piece of 2” PVC pipe at the hydrants. Splices shall be soldered and water proofed using shrink wrap or underground splice kit. Test station shall be an adjustable height tracer wire access box manufactured by VALVCO, Inc. Test stations shall be plain-capped valve box top section with hardwood blocking installed as noted on the plans. Tracer wire ends at existing main shall be bonded to a 8’ copper ground rod driven next to the pipe.

**VIII. MATERIALS - GENERAL**

**A. CRUSHED STONE FOR ASPHALT BASE RESTORATION**

Crushed stone for restoration of the base for asphalt pavement shall comply with the requirements of 1-1/2" Graded Crushed Stone of Table 39 of Chapter 8.43.7 of the

Standard Specifications.

The granular trench backfill materials may be accepted in lieu of the above if kept clean and otherwise found unobjectionable as determined by the Engineer in the field.

B. COMPOUNDS FOR ASPHALT PAVEMENT

1. Binder course mixture shall be grade # 2 and mixed to comply with type R-MV (35% recycled) or Superpave Type E-3, 19mm Subsection 407.3. Surface course mixture shall be grade # 4 and mixed to comply with type V-MV (virgin) or Superpave Type E-3, 9.5mm (virgin) Subsection 407.3
2. Asphalt delivered to the site shall arrive at a temperature of 275° plus or minus 25°. Any trucks not meeting this requirement shall be rejected.
3. Compounds for asphaltic pavement shall be provided in conformance with the following section of the State Specifications.

Materials for Asphaltic Mixtures and Surface Treatments .....Section 401  
 Tack Coat .....Section 402  
 Plant Mixed Asphaltic Surfaces and Pavements  
     General Requirements .....Section 405  
 Asphaltic Concrete Pavements .....Section 407

C. CONCRETE FOR CONCRETE PAVEMENT RESTORATION

The materials provided under this contract shall conform to the Standard Specifications Governing Concrete Pavement Construction, City of Oak Creek, Department of Engineering, March 2004, in all respects except as follows:

1. Air Entrainment - Air entrainment shall be between 5 and 7% by volume when concrete is made with 6 sacks of cement per cubic yard of concrete, has a slump of 2" to 3", and is mixed as specified.
2. Air Entraining Cements and Admixtures - Type IA, IIIA, or I S A cements shall be used to provide air entrainment in the concrete. When authorized by the Utility Engineer, an approved air entraining agent may be added to mix to provide the specified air content.
3. Concrete Strength Requirements and Tests - The specified compressive strength of concrete shall be not less than 3,500 pounds per square inch when tested 28 days after placing. Continuous concrete quality and strength tests, in accordance with accepted methods, shall be performed by the City. Test cylinders shall be provided and all job tests performed by the City at no cost to the Contractor; however, the Contractor shall fully cooperate to provide the necessary concrete required for the tests.  
 Where high-early-strength concrete is specified, the compressive strength of

the concrete shall be not less than 2,500 pounds per square inch when tested 3 days after placing.

Cylinders for strength tests shall be made in accordance with ASTM Method C31. Three cylinders shall be made for each test, and one test shall be made for each 100 cubic yards of concrete or fraction thereof placed on any day, and at least two tests shall be made for each portion of pavement constructed on a particular day.

Cylinder strength shall be determined in accordance with ASTM Method C39. One cylinder of each set shall be tested at seven days, and the other two cylinders of each shall be tested at 28 days.

## **IX. CONSTRUCTION DETAILS**

### **A. COMPLYING WITH SPECIFICATIONS**

The Contractor shall comply with the specifications and ably perform all operations to the extent that the first-class work will be obtained. A representative of the Oak Creek Water & Sewer Utility will inspect the work as it progresses to determine full compliance with the specifications. The Inspector shall notify the Utility Engineer of any noncompliance and have authority to stop any work not being performed in accordance with the specifications, in order that an Engineer may investigate such noncompliance.

Any work performed after the work has been ordered stopped by the Inspector shall not be considered as work performed under the contract, and consequently will not be accepted by the Utility nor allowed in any monthly or final payment until corrected to the satisfaction of the Utility Engineer.

The "Standard Specifications for Sewer and Water Construction in Wisconsin", (herein referred to as The Standard Specifications), shall apply for all sewer and water main construction unless otherwise noted in these Detail Specifications or on the construction plans. The Highway and Structure Construction - Standard Specifications Department of Transportation, Division of Highways, State of Wisconsin and Supplemental Specifications (herein referred to as the State Specifications), shall apply for pavement restoration. The MUTCD and State Specifications shall apply to all traffic control.

### **B. LOCATION - STAKING**

The line for each facility will be located as shown on the plan and will be staked out once by the City Engineering Department. If necessary to pass an existing obstruction, the Utility Engineer may shift the line to avoid such obstruction.

The Contractor must protect all stakes and benchmarks from disturbances until permission is given to remove them. Width of not less than 2' on each side of the line on which stakes are located shall be kept free from obstruction. Additional

staking required due to damage or removal shall be at the Contractor's expense.

C. MATERIAL ENCOUNTERED

No variation from the price named in the proposal will be made or allowed whether the material through which excavations must be made are hard or soft, and wet or dry. It is the Contractor's responsibility to determine for himself the character, nature, type and condition of materials likely to be encountered in the proposed work. The submission of a proposal for the work herein shall in itself be accepted as evidence that the Contractor has examined the site of all work, made borings, investigations and studies of all conditions and provided for all such conditions in his proposal.

Any and all necessary dewatering shall be in accordance with Chapter 2.2.13 of the Standard Specifications.

Contractor will be required to obtain a high capacity dewatering permit prior to start of construction for dewatering rate of 70 gallons per minute (gpm) or higher.

Contractor is responsible to reconnect existing field tiles that may be encountered during excavation. Existing tiles must be repaired and connected to a storm sewer or have positive outfall provided.

D. EROSION CONTROL AND GROUND COVER

Pursuant to City of Oak Creek Code, construction activities are required to comply with erosion control and ground cover requirements. For public works construction, specifically, the following construction activity requirements are applicable.

1. Those involving grading, removal of protective ground cover or vegetation, excavation, landfilling or other land disturbing activity affecting a surface area of 4,000 square feet or more;
2. Those involving excavation or filling or a combination of excavation and filling affecting 400 cubic yards or more of dirt, sand or other excavation or fill material;
3. Those involving street, highway, road, or bridge construction, enlargement, relocation or reconstruction;
4. Those involving the laying, repairing, replacing or enlarging of an underground pipe facility for a distance of 300' or more.

To address the requirements, the Contractor shall provide for the implementation of the control measures as may be specified on the construction plans and in these Detail Specifications.



#### F. DISTRIBUTION OF EXCESS EXCAVATED MATERIAL

The disposal of all surplus excavated materials shall be the responsibility of the Contractor, shall be at the Contractor's expense and if disposed of within the limits of the City of Oak Creek, shall comply with the following regulations. The Contractor prior to the start of construction shall indicate the location at which the surplus excavated material will be disposed of.

The placement of fill on private lands located in the City of Oak Creek is under City regulation, in accordance with the Municipal Code. The disposal of surplus excavated materials, including that derived from public works construction, is subject to compliance with this code. Basically, the Code provides for only the following forms of landfilling:

1. When the fill comprises of less than 1,000 cubic yards and is to be placed on a parcel of land of one acre or less in size. An application shall be made to the City Engineer for a permit, on a one-time-only basis. A \$300.00 fee, plus an applicable erosion control permit and fee, is required.
2. Shoreline erosion control, whereby a license must be applied for and granted prior to landfilling activity being undertaken.
3. On a site, where fill may be needed in conjunction with building construction and where a building permit is in effect.
4. On City-owned property, subject to plans approved by the Common Council.
5. On a site where a landfill license is in effect.

#### H. WATER MAIN DETAIL DRAWINGS

The Detail Drawings included at the rear of the Detailed Specifications, cover corrections, deletions or additions to the Standard Specifications and take precedence over such Standard Specifications and supplement these Detail Specifications.

#### I. DUCTILE IRON WATER PIPE

The laying of ductile iron water main shall comply with Part IV of the Standard Specifications, and the following requirements:

1. The pipe, with two layers of polyethylene wrap shall be laid with a torpedo sand bedding and cover in accordance with Section 4.3.3 and File No. 36 of the Standard Specifications.
2. Backfill for all pipe sizes shall be as specified above the 6" cover line.

J. POLYVINYL CHLORIDE WATER PIPE

The laying of PVC pipe shall be laid with a torpedo sand bedding and cover and comply with Part IV of the Standard Specifications and the following requirements:

1. Acceptable Procedure on Anchoring of Vertical Water Main Offsets where Polyvinyl Chloride Pipe is used shall comply with Chapter 4.9.0 and 4.10.0 and File No. 47A of the Standard Specifications.
2. Elimination of Vertical Offsets by the Use of Deflected Pipe - In lieu of the procedures outlined under subsection 10 above, the Contractor may elect to deflect the polyvinyl chloride pipe to provide the vertical location or alignment concept indicated on the construction plans. The use of this alternate must be approved by the Utility Engineer prior to installation, in particular as to clearance with other utilities, both existing and anticipated and as to compliance with maximum pipe deflection.

<u>Pipe Diameter</u>	<u>Maximum Deflection per 20' Length</u>
6"	8"
8"	6"
12"	4"

K. PRESTRESSED CONCRETE PRESSURE PIPE

The manufacturer's instructions are to be followed by the Contractor in laying and jointing the pipe, and the lubricant, pulleys and appurtenances used must be furnished by or be recommended and approved by the pipe manufacturer. The water main shall have torpedo sand bedding and cover to 6" above the pipe.

When the pipes have been joined, a band shall be fastened around the joint recess and 1:2 mortar grout poured to fill the recess beneath the band in accordance with the manufacturer's recommendations.

All material shall be removed from the pipe prior to laying and pipe left in clean condition. Open ends of the pipe shall be closed with acceptable pipe plugs upon suspension of the work for any reason, and a number of plugs for the purpose must be kept on hand for immediate use in case of an emergency.

L. WATER MAIN - HYDROSTATIC TESTING

The Contractor shall provide for the testing of all new mains under the supervision of the Utility in accordance with Chapter 4.15.0 of the Standard Specifications and the following requirements:

1. Separate leakage tests on the entire length of new main and on valved sections thereof, may be required as determined by the Utility. The Utility's requirements on all new mains are a 150 psi pressure test for a duration of one hour and a 100 psi leakage test for a duration of two hours.

2. Where a new main will be connected to an existing main, it may be necessary for the Contractor to install a temporary plug in the new main for testing purposes. After the specified pressure and leakage tests have been completed on the new main, actual connection to the existing main shall be made. The section of new connecting main between the removed test plug and the existing main, shall be subject to line pressure prior to backfilling. Any visible defects observed in the connecting main shall immediately be repaired by the Contractor at his expense, prior to backfilling.
3. Costs of all testing including the installation and removal of temporary test plugs, shall be at the Contractor's expense.

M. WATER MAIN - PIPE DISINFECTING and FLUSHING

Disinfection shall be in accordance with AWWA 651 for Disinfecting water mains, B300 for Hypochlorite, and B301 for Liquid Chlorine. Disinfection shall be accomplished by injecting chlorine into the main via a hydrant connection. This injection shall yield a mixed volume with 50 ppm of free chlorine. Chlorinated water shall remain in the pipe for a minimum of 24hrs. If the water temperature is less than 41°F (5°C) it shall remain in the pipe for a minimum of 48 hours. A minimum 25 ppm chlorine residual should be found at each sampling point after the 24 hr. or 48 hr. period. If the residual is less than 25 ppm, the system shall be re-disinfected using 50 ppm available chlorine in accordance with AWWA standards.

After disinfection the water main shall be dechlorinated while it is being flushed. After completing final flushing of the main, 2 separate water samples a minimum of 24 hours apart will be required for safe water sampling. After the Contractor sets up the tests and the Utility will collect samples for testing.

N. WATER SERVICE CONNECTIONS

All water service connections, including the tapping work, shall be performed by the Contractor.

O. WATER MAIN CONSTRUCTION SCHEDULE

Listed below is a suggested construction sequence for the transmission main project. The Contractor must submit a sequence at the pre-construction conference. The Engineer must approve the sequence. The list below does not include all of the work to be accomplished for completion of the project.

1. Install 12" cut-in Resilient Wedge Gate Valve at STA 0+13.2, 107.5' LT.
2. Install 24" PCCP from STA 0+00 to STA 2+37
3. Connect 24" and 20" DIP at STA 21+78

4. Install 24" PCCP from STA 21+78 to STA 21+40
5. Install Wye at STA 21+40
6. Install PCCP from STA 21+40 to STA 2+37
7. Install Closure at STA 2+37
8. Test, flush, and sample

**P. NOTICE TO UTILITY**

Contractor shall give a 48 hour written notice to the Utility before requesting a shut down of any existing water mains in order to make the connections.

**X. RESTORATION IN THE WORK AREA**

**A. GENERAL**

Upon completion of the utility installation, the Contractor shall remove all debris, surplus materials, and return the surface of the street or right-of-way and all other places disturbed or affected by the work to a condition at least comparable to that existing before starting the work and shall maintain it in such condition until its final completion and acceptance. The restoration shall include seeding or sodding grass areas and graveling or pavement repair of streets and driveways. Final payment for any installation will not be made until this restoration has been completed and accepted.

Acceptance or approval of any excavation work by the City Engineer shall not prevent the City from asserting a claim against the Contractor and his surety under the surety bond required hereunder for incomplete or defective work if discovered within 12 months from the acceptance of the completed work. The City Engineer's presence during the performance of any excavation work shall not relieve the Contractor of his responsibilities hereunder.

Cost of all restoration shall be included in the bid price for the water main installation. It shall be the duty of the Contractor to guarantee and maintain the site of the excavation for one year after restoring it to its original condition.

Included in the restoration shall be any damage to drainage ways due to discharge of trench waters. The Contractor is required to implement erosion control techniques.

B. ARTERIAL AND COLLECTOR STREETS

The Contractor shall provide at least a temporary bituminous resurfacing of all arterial or collector street pavement within two weeks of completion and backfill of sewer and/or water main that required the removal of all or part of such arterial or collector street pavement. The replacement of the pavement referred to above shall not be delayed due to any service lateral construction on the segment of sewer and/or water main in the arterial or collector street pavement area that the Contractor may have remaining after the two-week period elapses.

C. RESTORATION OF PAVED ROADWAY SURFACES

1. Temporary Bituminous Pavement

The Contractor shall restore the surface of all streets, broken into or damaged as a result of the excavation work, to its original condition in accordance with the specifications. The Contractor may be required to place a temporary surface over openings made in paved traffic lanes. Except when the pavement is to be replaced before the opening of the cut to traffic, the fill above the bottom of the paving slab shall be made with suitable material well tamped into place and this fill shall be topped with a minimum of at least 4" of bituminous mixture which is suitable to maintain the opening in good condition until permanent restoration can be made. The crown of the temporary restorations shall not exceed one inch above the adjoining pavement. The Contractor shall exercise special care in making such restorations and must maintain such restorations in safe travelling condition until such time as permanent restorations are made. In the event it becomes necessary for City forces to provide emergency maintenance of the Contractor's trenches, the cost of such work shall be billed to the Contractor. The asphalt which is used shall be in accordance with the specifications. If in the judgment of the City Engineer, it is not expedient to replace the pavement over any cut or excavation made in the street upon completion of the work under contract by reason of the looseness of the earth or weather conditions he may direct the Contractor to lay a temporary pavement of suitable material designated by him over such cut or excavation and maintain it until such time as the repair of the original pavement may be properly made.

2. Permanent Pavement

a. General

Permanent restoration of the street shall be made by the Contractor in strict accordance with the specifications to restore the street to its original and proper condition, or as near as may be.

The trench consolidation and the pavement subgrade preparation shall be completed prior to the replacement of the permanent

pavement in accordance with Chapter 2.7.3(a) and 2.7.3(b) (Page 61) of the Standard Specifications.

b. Concrete Pavement

All portland cement concrete replacement shall be made with monolithic pour of Class "A" air-entrained concrete, 9-bag mix to a thickness of at least equal to the original pavement but in no event less than 9" in thickness. Jointing compatible with the jointing in abutting undisturbed concrete pavement shall be provided. Concrete and tie bars shall be placed in accordance with the State Specifications and/or permit, and the cost of which shall be included in the water main bid item.

c. Asphalt Pavement

All asphalt pavement restoration shall consist of the following:

1) A 12" traffic bound base course installed in accordance with Section 304 (Pages 115-124) of the State Specifications, utilizing materials as specified in Section 8 of these Detailed Specifications.

2) A 4" bituminous pavement consisting of a 2-1/2" binder course and a 1-1/2" wearing course placed on a primed base installed in accordance with Sections 401 (Pages 135-147) and 407 (Pages 168-177) of the State Specifications.

3) Driveways shall be 3" asphalt on 6" of T.B. limestone.

d. Asphalt Over Concrete Pavement

The contractor shall provide Class "A" air entrained concrete base 9-inches thick. The base will extend vertically to within 1.5-inches of the surface of the asphalt. Once cure time has been established,

C. RESTORATION OF GRAVELED SURFACES

The Contractor shall be required to restore all graveled surfaces to a drivable condition, which were removed for the underground installation with traffic bound granular materials. Materials and installation shall conform to Section 304 of the State Specifications.

D. RESTORATION OF LAWNS

The contractor shall repair, reseed, resod and/or replanted all established lawns damaged during the course of construction to a condition equal to or better than the condition at the commencement of his work in accordance with Type "C", Lawn Replacement of Chapter 2.7.4 of the Standard Specifications, as indicated on the

construction plans or as directed by the Engineer. Mulching under Type "C" Replacement shall be in accordance with Section 627 of the State Specifications.

Replace cover by means of seeding with grass seed at the rate of not less than six pounds per thousand square feet on leveled topsoil.

#### **E. UTILITY'S RIGHT TO RESTORE SURFACE**

If the Contractor shall have failed to restore the surface to its specified condition upon the expiration of the time fixed by such contract or shall otherwise have failed to complete the excavation work covered by the contract, the Utility Engineer, if he deems it advisable, shall have the right to use Utility forces to do all the work necessary to restore the work area. The Contractor shall be liable for the actual cost thereof plus 25% for general overhead and administrative expenses. Compensation for the amount of such costs shall become due to the Utility and credit for such amount shall be applied against any funds that may be due to the Contractor. If final payment under the contract has already been made, the Contractor shall be directly billed for the amount due. As a last resort, the Utility will enforce compensation for costs it has incurred through collection from the Contractor's surety.

### **XI. CLEAN-UP AND FINAL INSPECTION**

The Contractor shall have thorough and systematic clean-up operations follow closely behind the construction work. He shall at his own expense, remove and properly dispose of all water, dirt, rubbish, or any other foreign substances. Any defects of any nature whatsoever shall be promptly corrected at his own expense. Notice to begin final cleaning and repairs if such is needed will be given by the Engineer and shall be complied with by the Contractor. The Engineer will make an inspection of the work during the progress of final cleaning and repairing and any work so inspected shall be kept clean by the Contractor until the final inspection by the Engineer and the acceptance of the entire work. When the Contractor has finally cleaned and repaired the work, he shall notify the Engineer that he is ready for a final inspection and the Engineer will thereupon inspect the work. If the work is not found satisfactory, the Engineer may require further cleaning and repairing and when these are completed will again inspect the work. In no case will the final payment be made until the Contractor has complied with all the requirements set forth and the Engineer has made his final inspection of the entire work and is satisfied that the entire work is properly and satisfactorily constructed in accordance with the plans and specifications and contract, and that such work is ready for his final inspection and acceptance by the Utility (see Section 1.5.2 - of the Standard Specifications).

Note: The routing of all punch lists on items that remain needing attention shall be between the Engineer and the Contractor or his authorized project coordinator.

### **XII. PROTECTION AND RESTORATION OF PROPERTY**

#### **A. UNDERGROUND**

The Contractor shall protect, repair and restore any underground drain lines, conduit, culverts, etc., encountered in the progress of the work and shall be responsible for the protection and replacing of any utilities encountered or damaged during construction, at no cost to the Utility. The Contractor shall also restore any septic system drain lines or field tiles encountered in the progress of the work and shall use watertight joints on the replaced drain lines when directed to do so by the Engineer. The cost of this work shall be included in the unit bid and contract price for water main, and no extra payment will be made therefore.

#### **B. SURVEY CORNERS AND ABOVE SURFACE OBSTRUCTIONS**

The Contractor while on this job, will be solely responsible for the protection and/or replacement of all survey corners which exist throughout the area. These corners will be located and marked by the Engineering Department of the City of Oak Creek upon request by the Contractor prior to commencing his work. Any such damaged corners shall be replaced by the City and the amount deducted from the contract payment.

The Contractor shall protect, repair and replace any mailboxes, fences, signs or other structures damaged or displaced in the progress of the work.

#### **XIII. TIME OF COMPLETION**

The starting date for work under this contract shall be at the discretion of the Contractor, subject to the following:

- A. Preconstruction meeting as arranged by the Utility Engineer.
- B. Issuance of the Notice to Proceed by the Utility Engineer.
- C. Completion of the transmission main and ready to use within 60 calendar days.
- D. Completion of the surface restoration within an additional 5 calendar days.
- E. The entire project, including surface restoration shall be completed no later than May 23, 2009.

It shall be understood by the Contractor that the date of starting construction and the date of completion of the work to be done hereunder are ESSENTIAL CONDITIONS of this contract, and it is further understood and agreed that the work shall be commenced as aforementioned.

The Contractor agrees that the work shall be pursued regularly, diligently, and uninterruptedly at such rate of progress as will assure completion of the work on the dates as stated in the proposal.



**XIV. EXTENSIONS OF TIME**

Extensions of time may be allowed by the Utility for reasonable delays due exclusively to causes beyond the control and without the fault of the Contractor including but not restricted to owner purchased material delivery delays, extra work or supplemental contract work added to the original contract, fires, strikes, unusual floods, accidents and unreasonable delays in receiving ordered materials and equipment. It should be understood by the Contractor that rain events occur and fluctuate from year to year and shall not be considered cause for a time extensions.

All requests for extensions of time shall be presented in writing to the Utility Engineer within ten calendar days after the occurrence of the claimed delay, accompanied by all necessary supporting data, and, if based on valid grounds will be considered by the Utility and such extensions of time shall be granted as may seem to be fair and reasonable. However, no claims will be considered when based on delays caused by conditions existing at the time bids were received and of which the Contractor might be reasonably expected to have knowledge at the time of bidding, or upon delays caused by failure on the part of the Contractor to anticipate properly the requirements of the work contracted for as to the securing of needed materials, labor and equipment.

**XV. LIQUIDATED DAMAGES**

When the work embraced in the contract is not completed within the time stated in the Detail Specifications for the water main construction, and/or for the entire work, including testing, flushing, and surface restoration, as stated, and within such extra time as may be allowed by extensions, the Contractor shall pay to the Oak Creek Water & Sewer Utility the following sum for each and every calendar day that the time consumed in final completion exceeds the time allowed therefore, plus the engineering and inspection costs incurred during the time used beyond the allowed time:

<b>Original Contract Amount</b>		<b>Daily Charge</b>
From More Than	To and Including	Calendar Day
\$0	\$50,000	\$200.00
\$50,000	\$100,000	\$250.00
\$100,000	\$300,000	\$350.00
\$300,000	\$500,000	\$500.00
\$500,000	\$1,000,000	\$700.00
\$1,000,000	\$1,500,000	\$1,000.00
\$1,500,000	\$2,000,000	\$1,350.00
\$2,000,000	\$2,500,000	\$1,400.00
\$2,500,000	---	\$1,550.00

Completion of the work under this contract on the specified time schedules is necessary and vital to the Utility. Failure to complete the project on or before specified working days or calendar dates will result in loss of revenues, loss of timely use of the proposed facilities, delays, and possibly inflated costs for related or subsequent improvement installations, detrimental to the economic development of the City and Utility, as well as the additional cost of engineering expenses which will be required to be paid by the Utility.

Said sum in view of the difficulty of accurately ascertaining the loss which the Utility will suffer by reason of delay in completion is hereby fixed and agreed by the parties hereto as the liquidated damages that will be suffered by reason of such delay, and not as a penalty. The Utility will deduct and retain out of the monies which may become due hereunder, the amount of any such liquidated damages and in case the amount which may become due hereunder shall be less than the amount of liquidated damages suffered, the Contractor shall be liable to pay the difference upon demand by the Utility.

**XVI. OWNER PURCHASED MATERIAL**

The Oak Creek Water and Sewer Utility will pre-purchase the items shown in schedules three and four. The contractor shall furnish all other materials needed to complete the project. Nuts, Bolts, and Gaskets for mechanical joints will not be pre-purchased according to the attached laying schedule Details D01 to D18.

The contractor shall coordinate with the material suppliers for delivery of the products. All pre-purchased materials shall become the sole property of the contractor upon the arrival of the material delivery vehicle on the project site at which time the contractor shall be responsible for unloading and storage of the materials. Materials shall be stored and handled in accordance with the manufacturer’s recommendations.

**Schedule 3 – Butterfly Valves**

**Supplier: HD Waterworks, Ltd.  
15655 West Rogers Dr.  
New Berlin, WI 53151  
Phone: (262)786-5186**

<u>Item Description</u>	<u>Quantity</u>
24 4500-01 MJ BFV OL ON, OPEN LEFT, 2” OPER. NUT, W/ACC	4
24 BFV ADAPTOR M&H	4
668 VALVE BOX IMP	4
24 MJ REGULAR GASKET F/DI	8
3/4X5 T-HEAD B&N COR BLUE	128
20 4500-01 MJ BFV OL ON, OPEN LEFT, 2” OPER. NUT, W/ACC	1
20 BFV ADAPTOR M&H	1
668 VALVE BOX IMP	1
20 MJ REGULAR GASKET F/DI	2
3/4X5 T-HEAD B&N COR BLUE	14

#### Schedule 4 – Prestressed Concrete Pressure Pipe and Appurtenances

**Supplier: Hanson Pressure Pipe**  
**1003 N. MacArthur Blvd.**  
**Grand Prairie, Texas 75050**  
**Phone: (972)262-3600**

<u>Item Description</u>	<u>Quantity</u>
24" LINED CYL. PIPE, WEIGHT = 240 LBS/FT, 20' LAY LENGTH	2,187 L.F.
24" PJ X PJ X AMJS BRANCH WYES	1 EA
PAISLS OF JOINT LUBE	4 EA
INSTALLATION KIT	1 EA
24" NITE PLUGS/CAPS	2 EA
24" PJ X PJ ADAPTORS	1 EA
24" PJ X 20" AMJS CONCENTRIC REDUCERS	1 EA
24" 05 TO 22.5 DEGREE ELBOWS	8 EA
24" PJ X AMJS ADAPTORS	4 EA
24" FOLLOWER RING CLOSURES	1 EA
24" DISHED BULKHEADS	1 EA
24" MJB X PJ X PJ BRANCH WYES	1 EA
24" AMJS X AMJS ADAPTERS	1 EA
24" W/8" TAN. AMJS OUTLETS	1 EA
24" W/6" TAN. AMJS OUTLETS	1 EA
24" SHORTS	7 EA
24" HARNESS CLAMP RESTRAINED JOINTS	1 EA
24" SNAP RING RESTRAINED JOINTS	25 EA

## **XVII. PROPOSAL ITEMS**

Special note to the bidder and successful contractor

Contractor will be allowed to work only while there is an Inspector at the site at any or all times and the Contractor must notify the Utility Engineer prior to commencing with any of the work specified for this project (i.e., excavation, shoring, sheathing, bedding, laying pipe, backfilling, clean-up, etc.) An Inspector will be provided to the Contractor by the Utility at no cost to the Contractor, except that inspection time shall be charged to the Contractor in addition to the specified liquidated damages after he has exceeded his time of completion (see Instructions to Bidders). If the Contractor requests to work on Sundays or declared Utility holidays, an Inspector will be provided but the Contractor must pay for the Inspector's wages for such work. A list of official holidays can be obtained from the City of Oak Creek Engineering Department.

The bid price for each bid item shall include the furnishings of all materials, tools, labor, etc. It shall include saw cutting pavement full depth, execution disposition of surplus material, pipe laying, backfilling, sheeting, shoring, tunneling, auguring, dewatering, furnishing and installing of fittings, connecting to existing water mains disturbed or damaged by the Contractor's operation and clean-up, all as specified. Traffic control, surface restoration and any other incidental items necessary shall be incorporated into the various bid items. The item numbers referred to below correspond to the item number in the proposal. Contractor shall refer to the items below for details of the work included.

### **Items 1 & 2 - 24" PCCP Water Main Installation**

The unit bid and contract price for these items shall include all equipment, materials, and labor necessary to install 24" Water Main complete in place and ready to use. This item shall include but not be limited to:

- saw cutting the pavement full depth
- installation of tracer wire
- installation of wye at STA 21+40
- installation of all 22.5° bends
- backfill and surface restoration, as specified.
- assisting Utility staff with GPS point collection

The water main shall be placed in the manner indicated in these Detail Specifications and shall conform to the Detail Drawings included with these specifications. Type of backfill shall be as specified in the construction plans.

This item shall be paid based on the contract unit price per lineal foot installed as measured and documented by the Inspector.

### **Item 3 – Connect to Existing 24" Water Main Howell**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to connect to existing 24" ductile iron water main complete in place and ready to

use at Howell Avenue. These items shall include but not be limited to:

- exposing existing water main to verify location and depth prior to scheduling connections
- cutting and removing existing 24" X 20" ductile iron reducer and 24" ductile iron pipe
- installing the 24" X 24" PCCP wye at STA 21+78
- installing the 24" X 20" PCCP reducer
- connecting the 24" PCCP to the existing 24" ductile iron pipe
- installation of tracer wire
- bond 6 anodes to existing ductile iron pipe
- backfill and surface restoration

This item shall be paid based on the contract unit price for each installed as documented by the Inspector.

#### **Item 4 – Connect to Existing 24" Cross, Liberty Lane**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to connect to existing 24" ductile iron cross complete in place and ready to use at Liberty Lane. These items shall include but not be limited to:

- exposing existing water main to verify location and depth prior to scheduling connections
- connect to existing ductile iron cross with 24" PCCP Water Main
- installation of tracer wire
- bond 2 anodes to existing ductile iron pipe
- backfill and surface restoration

This item shall be paid based on the contract unit price for each as documented by the Inspector.

#### **Item 5 - Hydrant, Lead, and Aux. Valve**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to furnish and set a hydrant, with associated hydrant lead and auxiliary valve, together with all work and proper backfilling, surface restoration, complete in place and ready to use, in accordance with the construction plans and these Detailed Specifications. This shall include installation of tracer wire test stations.

This item shall include the hydrant, hydrant lead (of various lengths), and aux. valve, as shown on the plans. The hydrant, lead, and valve shall be restrained back the water main.

This item shall be paid based on the contract unit price for each as documented by the Inspector.

#### **Item 6 - 8" Outlet and Flushing Station**

The unit bid and contract price for this item shall include all equipment, materials, and labor

necessary to install the 8" outlet and flushing station in place and ready to use. This item shall include but not be limited to

- installation of 8-Inch ductile iron flushing station at STA 14+97.5 according to the detail on page 8 of the plans
- all connections to be restrained mechanical joint
- installation of tracer wire
- poly wrapping valve and adapter
- backfill and surface restoration

This item shall be paid based on the contract unit price for each as documented by the Inspector.

### **Item 7 – 12" Gate Valve**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to install a 12" resilient wedge type gate valve complete in place and ready to use. This item shall include but not be limited to:

- exposing existing water main to verify location and depth prior to scheduling connections
- the station provided on the plans is approximate, the contractor shall locate existing 12" PVC water main for the valve cut-in
- contractor shall provide a minimum 48 hours notice before beginning this work due to residential outage
- cutting and removing existing 12" PVC Water Main
- installing the 12" gate valve
- install cut-in sleeve at existing 12" PVC pipe in order to make the valve connection
- polywrapping valve and adapter
- installation of tracer wire
- backfill and surface restoration

This item shall be paid based on the contract unit price for each as documented by the Inspector.

### **Item 8 – 20" Butterfly Valve**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to install a 20" Butterfly Valve complete in place and ready to use. This item shall include but not be limited to:

- exposing existing water main to verify location and depth prior to scheduling connections
- installing the 20" butterfly valve at STA 21+71.06, 7' RT
- connecting 20" butterfly valve to existing 20" ductile iron water main
- installation of tracer wire
- poly wrapping valve and adapter
- backfill and surface restoration

This item shall be paid based on the contract unit price for each installed as documented by the Inspector.

**Item 9 – 24” Butterfly Valve**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to install a 24” Butterfly Valve complete in place and ready to use. This item shall include but not be limited to:

- exposing existing water main to verify location and depth prior to scheduling connections
- installing four 24” butterfly valves at STA 21+43.81, 4.01’ LT, STA 21+71.72, STA 21+83.97, and STA 0+03.46
- installing the cap to the 24” butterfly valve at station 21+40
- installation of tracer wire
- poly wrapping valve and adapter
- backfill and surface restoration

This item shall be paid based on the contract unit price for each as documented by the Inspector.

**Item 10 Traffic Control (Project)**

The unit bid and contract price for this item shall include all equipment, materials, and labor necessary to install both Phase I and Phase II Traffic Control. This item shall include but not be limited to:

- installation of Phase I traffic control
- installation of Phase II traffic control
- daily checks and maintenance
- coordination with WisDOT Signals Operations three days before installing any traffic control
- adherence to the Manual on Uniform Traffic Control Devices, latest edition

The contractor shall contact WisDOT Signal Operations three days prior to placing Phase I and three days prior to installing Phase II traffic control in order to facilitate any signal timing changes at the intersection of South Howell Avenue and West Puetz Road.

Stephanie J. Sward  
Signal Operations Engineer  
Wisconsin Department of Transportation  
141 N.W. Barstow Street  
Waukesha, WI 53187  
Phone: (262)548-8707

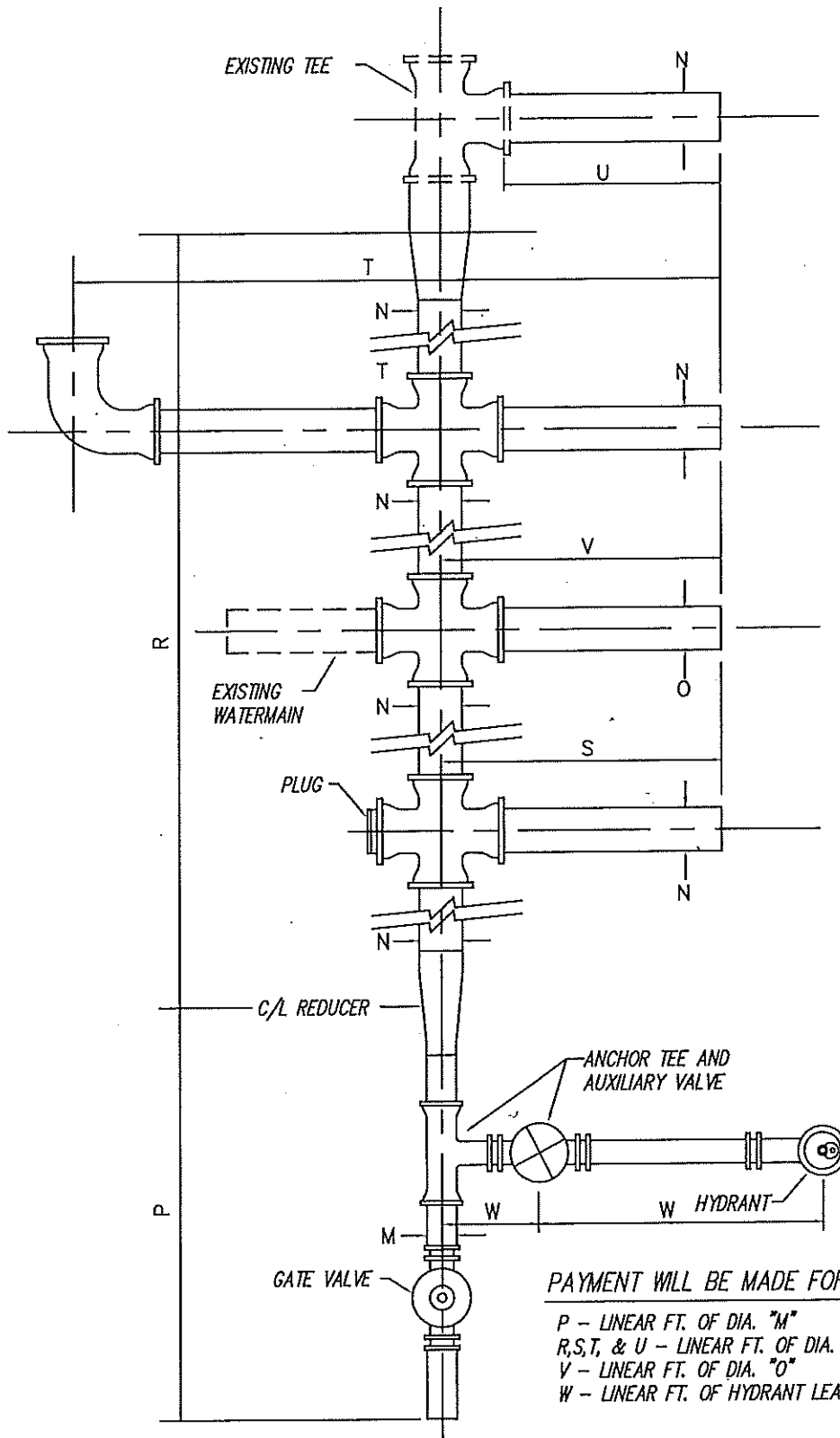
This item shall be paid based on the contract unit price for the lump sum as documented by the Inspector.

**Item 11 – Inlet Protection Type C**

The unit bid and contract price for this item shall include installing and maintaining inlet protection at all affected inlets within the project limits. This work shall be completed in accordance with the State Specifications, Section 628.

This item shall be paid based on the contract unit price for each as documented by the Inspector.





PAYMENT WILL BE MADE FOR:

- P - LINEAR FT. OF DIA. "M"
- R, S, T, & U - LINEAR FT. OF DIA. "N"
- V - LINEAR FT. OF DIA. "O"
- W - LINEAR FT. OF HYDRANT LEAD



City of Oak Creek  
Department of Public Works

Drawn By: K.C. Seufzer

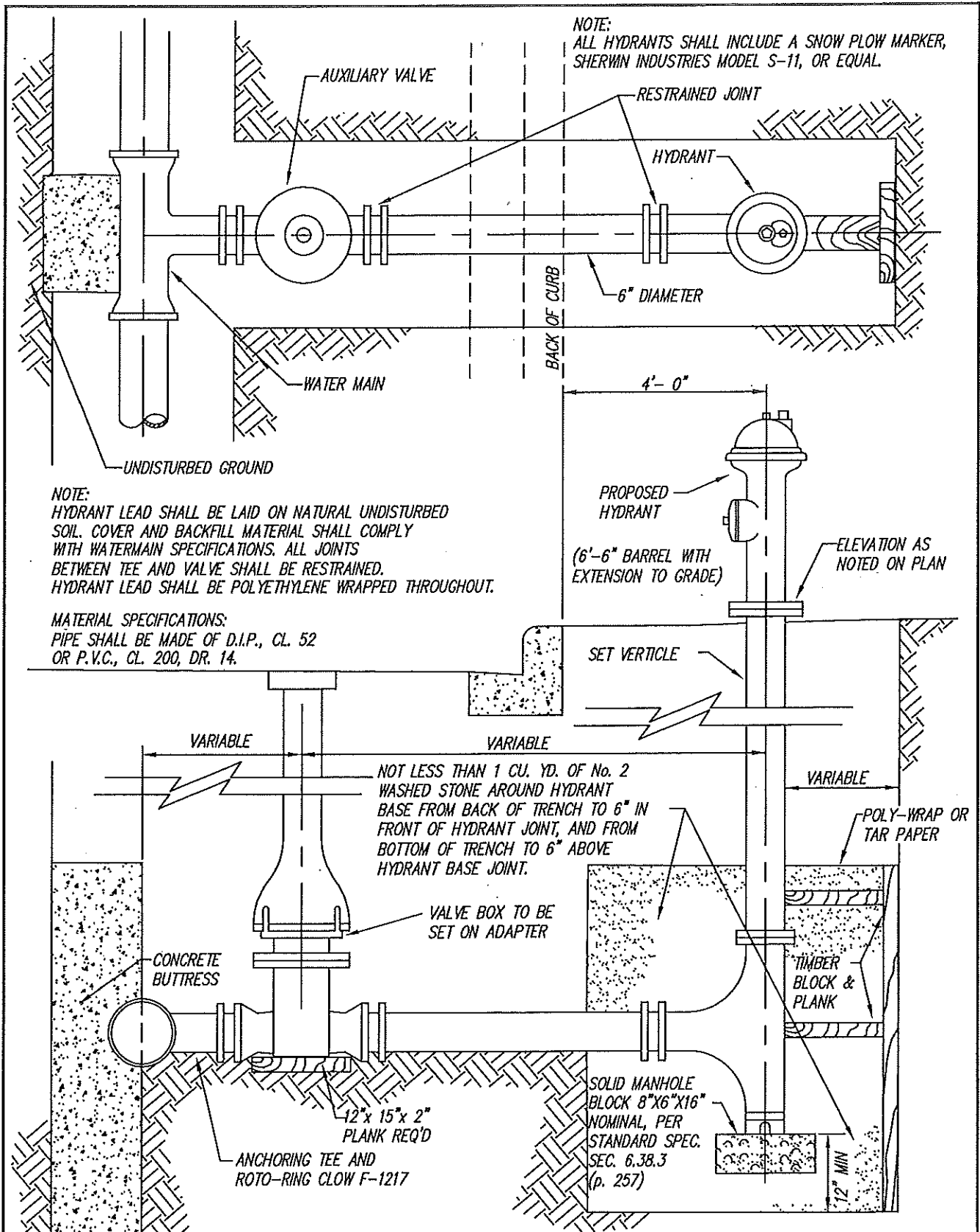
Scale: Not to Scale

Appv. By: M.J. Sullivan

Date: June 18, 1996

WATERMAIN PAYMENT DIAGRAM

WD-1



City of Oak Creek  
Department of Public Works

Drawn By: K.C. Seufzer

Scale: Not to Scale

Appv. By: M.J. Sullivan

Date: January 19, 2004

TYPE "A" HYDRANT SETTING DETAIL

WD-13



## Laying Schedule

Job No.: 120534

**Oak Creek, Wisconsin**  
**24" Transmission Main - Puetz Road**

Unit No.: 1  
Date: 12/21/2012  
Rev: 1/8/2013

### Miscellaneous Materials Shipping List

Quantity		Revisions
104	24" LCP Standard Foam Lined Diapers	A: 1/03/2013 Realignment between 20+00 and 21+72
133	24" LCP 21/32" Gaskets	
29	24" LCP Restrained or Bonded Foam Lined Diapers	B: 1/08/2013
1	24" LCP Harness Clamp Ring Assemblies	Change end station from 21+72 to 21+78
2	Joint Stops	
2	Internal/External Feeler Gauges	
1	Installation Kit (Invoiced at \$550.00 each)	
4	25lb Pail Joint Lubricant (Invoiced at \$55.00 each)	
2	24" LCP Nite Plug (Invoice at \$340 each)	
2	24" LCP Nite Gaskets	

## NOTES ON PIPE LAYING SCHEDULE

Abbreviations generally used on Hanson Pressure Pipe Laying Schedule and on detail drawings

ADPT	Adapter	FSB	Flat Side Bottom	OD	Outside Diameter
AMJS	Anchored Mechanical Joint Spigot	FSL	Flat Side Left	OJ	Open Joint
AN	Anchored	FSR	Flat Side Right	OL	Outlet
B or BOT	Bottom	FST	Flat Side Top	PB	Price Bell
BL	Bottom Left	FSE	From Spigot End	PE	Plain End
BR	Bottom Right	FWB	Field Welded Bell	PL	Plate
BA	Ball Joint	FWS	Field Welded Spigot	PI	Point of Intersection
BE	Bell End	G or GA	Cylinder Gauge	PS	Price Spigot
BEV	Beveled	(H)	Horizontal	PT	Paint
BH	Bulkhead	HB	Half Bevel	RT	Right
BLD FLG	Blind Flange	HC	Harness Clamp Joint	RMC	Raised Mortar Coating
BN	Bonded Joint	HCB	Heavy Harness Bell	RED	Reducer
BO	Blowoff	HHC	Heavy Harness Clamp Joint	RFG	Rotate For Grade
CIB	Cast Iron Bell	HHS	Heavy Harness Spigot	RMCS	Raised Mortar Coat Skids
CIS	Cast Iron Spigot	HPB	Harnessed Price Bell	SE	Spigot End
CL	Centerline	HPS	Harnessed Price Spigot	SH	Short
CLOS	Closure	HW	Heavy Wall Pipe	SL	Springline
CML	Cement Lined	HW BAR	Hardway Bar	SR	Snap Ring Joint
CONC	Concentric	ICTE	Internal Coal Tar Epoxy Paint	SRw/NB	Snap Ring w/Nose Bar
CONSHIELD	Conshield Concrete Additive	ID	Inside Diameter	SRB	Snap Ring Bell
CTE	Coal Tar Epoxy INT & EXT	ISC	Internal Seal Coat Paint	SRS	Snap Ring Spigot
C300	AWWA C300 Pipe	INV	Invert	SS	Short Side
C302	AWWA C302 Pipe	ITST	Internal Testable Joint	STA	Station
D or DEG	Degrees	IWHE	Internal White Epoxy Paint	STR	Straight (Standard Pipe Length)
DP	Deep Joint	JT	Joint	SUB	Subaqueous Joint
DHPB	Deep Harness Price Bell	LT	Left	SWJ	Shop Welded Joint
DHPS	Deep Harness Price Spigot	LCP	Lined Cylinder Pipe	T	Top
DPB	Deep Price Bell	LGTH	Length	TL	Top Left
DPS	Deep Price Spigot	LPE	Lugged Plain End	TR	Top Right
DWC	Double Wrap & Coat	LS	Long Side	TN or TAN	Tangent
EBC	Exterior Bitumastic Coating	LSB	Long Side Bottom	TBO	Tangent Blowoff
ECC	Eccentric	LSL	Long Side Left	TST	Testable Joint
ECP	Embedded Cylinder Pipe	LSR	Long Side Right	TFO	Tangent Flange Outlet
ECTE	External Coal Tar Epoxy Paint	LST	Long Side Top	(V)	Vertical
EDP	Extra Deep Joint	MC	Mechanical Coupling	VICT	Victaulic
EL or ELB	Elbow	MH	Manhole	WHE	White Epoxy Paint INT & EXT
ETST	Exterior Testable Joint	MJB	Mechanical Joint Bell	WP	Wallpiece
EW BAR	Easyway Bar	MJS	Mechanical Joint Spigot	WPB	Welded Price Bell
EWHE	External White Epoxy Paint	*MK	Mark Number	WPS	Welded Price Spigot
EXT	Extended	MOPB	Mortared Over Price Bell	WSP	Welded Steel Pipe
FB	Full Bevel	MOPS	Mortared Over Price Spigot	90TLK	90 Degree T-Lock
FBE	From Bell End	MTO	Mueller Threaded Outlet	180TLK	180 Degree T-Lock
FFE	From Flange End	MU	Mueller	270TLK	270 Degree T-Lock
FLG	Flange	NPTO	National Pipe Threaded Outlet (tapered iron pipe threads)	360TLK	360 Degree T-Lock
FO	Flange Outlet				
FOLL/RING					
or FR	Follower Ring				

\*Mark No. is Hanson Pressure pipe's code which identifies the pipe with the pipe Design Sheet. A pipe of higher Mark No. may be substituted for the Mark No. shown on the Laying Schedule, but a lower Mark No. may not be used without the Engineers and Hanson Pressure pipe's prior approval.

Fittings and specials are identified by Job No. (top left hand corner of Laying Schedule), piece code (left hand column of Laying Schedule) and color code as follows:

Stripes around pipe barrel:

Red = Outlet in pipe  
 Yellow = Restrained joint pipe  
 Blue = Bevel pipe

Gasket color code:

Red = Test Gaskets (19/32")  
 Yellow = Extra Deep Gaskets (25/32")  
 White = Laying Gasket (21/32")

Color Patch on Spigot Ring:

None = 16 Ga Cylinder  
 Yellow = 14 Ga Cylinder  
 Red = 12 Ga Cylinder  
 Orange = 10 Ga Cylinder  
 Brown = 8 Ga Cylinder  
 White = 3/16" Cylinder  
 Green = 1/4" Cylinder  
 Blue = 3/8" Cylinder

The left hand column of the Laying Schedule lists the fittings and specials code number. When calling for deliveries or to discuss pieces, please refer to them by JOB NO., UNIT NO., PIECE DESCRIPTION OR CODE NO.

## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>Project Number: 120534</span> <span>Oak Creek, Wisconsin</span> <span>Page 1 of 8</span> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Unit Number: 1</span> <span>24" PCCP (L301)</span> <span>Date: 12/21/2012</span> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Designed By: KLB</span> <span>24" Transmission Main - Puetz Road</span> <span>Rev: 1/08/2013</span> </div>						
		CONNECT TO BRANCH OF EXISITNG 24" DUCTILE IRON CROSS. AFTER INSTALLING VALVE, CONTINUE INSTALLATION, BELLS AHEAD.				
		EXISTING 24" DUCTILE IRON MJ BELL			1.09	
F-1	1	24"LCP AMJS X AMJS ADAPTER	3.19	0.00	1.09	126.77
	1	24" MJ BUTTERFLY VALVE (BY OTHERS)	0.53	3.19	1.09	126.80
F-2	1	24"LCP AMJS X SRB ADAPTER (LENGTH INCLUDES 1/2" GAP AT AMJS END)	1.27	3.72	1.09	126.81
F-3	1	24"LCP SRS X SRB 22.5D ELB 3/16PL EXT 1ST LEG 0.45' LSL JT to P.I.	1.41	4.99	1.09	126.82
		PI to JOINT P.I. to JT	0.56	6.40	1.09	126.84
S-4	1	24" LCP SR SH MK147 16GA	9.78	6.96	1.06	126.85
F-5	1	24"LCP SRS X SRB 22.5D ELB 3/16PL LSR JT to P.I.	0.96	16.74	1.06	126.95
		PI to JOINT P.I. to JT	0.56	17.70	1.06	126.96
	1	24" LCP SR STR MK147 16GA	19.93	18.26	0.95	126.97
	1	24" LCP DP STR MK147 16GA	19.93	38.19	0.95	127.15
		END OF RESTRAINED PIPE SECTION		58.12		127.34
	1	24" LCP DP STR MK147 16GA	19.93		0.95	
	1	24" LCP DP STR MK147 16GA	19.93	78.05	0.95	127.53
	1	24" LCP DP STR MK147 16GA	19.93	97.98	0.95	127.72
	1	24" LCP DP STR MK147 16GA	19.93	117.90	0.95	127.91
	1	24" LCP DP STR MK147 16GA	19.93	137.83	0.95	128.10
	1	24" LCP DP STR MK147 16GA	19.93	157.76	0.95	128.29
	1	24" LCP DP STR MK147 16GA	19.93	177.69	0.95	128.48

This schedule is furnished for your assistance and information only. It is not a substitute for the engineer's plans which govern and control the work.

## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
Project Number: 120534			Oak Creek, Wisconsin			Page 2 of 8
Unit Number: 1			24" PCCP (L301)			Date: 12/21/2012
Designed By: KLB			24" Transmission Main - Puetz Road			Rev: 1/08/2013
	1	24" LCP DP STR MK147 16GA	19.93	197.62	0.95	128.67
	1	24" LCP DP STR MK147 16GA	19.93	217.55	0.95	128.86
	1	24" LCP DP STR MK147 16GA	19.93	237.48	0.95	129.05
		GO TO 20" TIE-IN AROUND STATION 21+72. INSTALL RESTRAINED JOINT PIPE DOWNSTATION FROM TIE-IN AND CLOSE PIPELINE AT STATION 2+40				
		EXISTING 24" IRON PIPE			0.00	
F-6	1	24"LCP MJB X SRB X 24"LCP SRB (4.35' LL) BCH RT 45.0D JT to P.I.	2.68	2180.68	0.00	111.50
		WYE (BCH RIGHT VIEWED FROM MJB END) P.I.		2178.00		111.50
		PI to JOINT P.I. to JT	4.32	2173.68	0.00	111.50
F-7	1	24"LCP SRS X 20" AMJS CONC RED	2.91	2170.77	0.00	111.50
		CONNECT WITH 20" MJ VALVE, BY OTHERS				
		CONTINUE INSTALLATION FROM BRANCH OF WYE F-6				
		WYE F-6 POINT OF INTERSECTION			0.00	
				2178.00		111.50
	1	WYE F-6 BRANCH P.I. TO 24" SRB	4.35	2173.65	-0.94	111.46
F-8	1	24"LCP SRS X AMJS ADAPTER (LENGTH INCLUDES 1/2" JOINT GAP AT AMJS END)	1.67	2171.98	-0.95	111.44
	1	24" MJ BUTTERFLY VALVE (BY OTHERS)	0.53	2171.45	-0.95	111.44
F-9	1	24"LCP AMJS X SRB ADAPTER (LENGTH INCLUDES 1/2" JOINT GAP AT AMJS END)	1.27	2170.18	-0.95	111.43
	1	24" LCP SR STR MK147 16GA	19.93	2150.25	-0.95	111.24
S-11	1	24" LCP SR SH MK147 16GA	5.53	2144.72	-0.95	111.19
F-12	1	24"LCP SRS X SRB X 24"LCP AMJS (5.4' LL) BCH LEFT JT to P.I.	4.72	2140.00	-0.95	111.20
		45.0D WYE (BCH LEFT VIEWED FROM SRB END) P.I.				
		PI to JOINT P.I. to JT	2.07	2137.93	-0.95	111.18

This schedule is furnished for your assistance and information only. It is not a substitute for the engineer's plans which govern and control the work.

## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Project Number: 120534  
 Unit Number: 1  
 Designed By: KLB

Oak Creek, Wisconsin  
 24" PCCP (L301)  
 24" Transmission Main - Puetz Road

Page 3 of 8  
 Date: 12/21/2012  
 Rev: 1/08/2013

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
		CONTINUE FROM WYE F-12 BRANCH		0.00	0.00	111.20
	1	WYE F-12 BRANCH - P.I. TO AMJS	5.40	5.40	0.00	111.20
	1	24" MJ BUTTERFLY VALVE (BY OTHERS)	0.53	5.93	0.00	111.20
F-13	1	24"LCP AMJS X DP HPB ADAPTER	1.29	7.22	0.00	111.20
F-14	1	24"LCP DP HPS DISHED BULKHEAD 3/16" THICK PERMANENT (DIAPER AND GROUT BEFORE FILLING LINE)	0.00	7.22	0.00	111.20
		RETURN TO WYE F-12 AND CONTINUE INSTALLATION, BELLS AHEAD, DOWNSTATION.				
F-15	1	24"LCP SRS X SRB 22.5D ELB 3/16PL LSR	0.96		-0.95	
		JT to P.I.		2136.97		111.17
		P.I.				
		PI to JOINT	0.56	2136.41	-1.00	111.16
	1	24" LCP SR STR MK147 16GA	19.93	2116.48	-1.00	110.97
S-16	1	24" LCP SR SH MK147 16GA	12.52	2103.96	-1.00	110.84
F-17	1	24"LCP SRS X SRB 22.5D ELB 3/16PL LSR	0.96		-1.00	
		JT to P.I.		2103.00		110.83
		P.I.				
		PI to JOINT	0.56	2102.44	-0.87	110.83
S-18	1	24" LCP SRS X DPB STR MK147 16GA	19.93	2082.52	-2.23	110.38
		END OF RESTRAINED PIPE SECTION				
	1	24" LCP DP STR MK147 16GA	19.93		-3.10	
				2062.60		109.76
	1	24" LCP DP STR MK147 16GA	19.93		-3.10	
				2042.68		109.15
	1	24" LCP DP STR MK147 16GA	19.93		-3.10	
				2022.76		108.53
	1	24" LCP DP STR MK147 16GA	19.93		-3.10	
				2002.84		107.91

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## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Project Number: 120534  
 Unit Number: 1  
 Designed By: KLB

Oak Creek, Wisconsin  
 24" PCCP (L301)  
 24" Transmission Main - Puetz Road

Page 4 of 8  
 Date: 12/21/2012  
 Rev: 1/08/2013

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
	1	24" LCP DP STR MK147 16GA	19.93	1982.91	-1.39	107.63
	1	24" LCP DP STR MK147 16GA	19.93	1962.98	-1.39	107.36
	1	24" LCP DP STR MK147 16GA	19.93	1943.05	-1.39	107.08
	1	24" LCP DP STR MK147 16GA	19.93	1923.12	-1.39	106.80
	1	24" LCP DP STR MK147 16GA	19.93	1903.19	-0.69	106.67
	1	24" LCP DP STR MK147 16GA	19.93	1883.26	-0.42	106.58
	1	24" LCP DP STR MK147 16GA	19.93	1863.34	-0.42	106.50
	1	24" LCP DP STR MK147 16GA	19.93	1843.41	-0.42	106.42
	1	24" LCP DP STR MK147 16GA	19.93	1823.48	-0.42	106.33
	1	24" LCP DP STR MK147 16GA	19.93	1803.55	-0.42	106.25
	1	24" LCP DP STR MK147 16GA	19.93	1783.62	-0.42	106.16
	1	24" LCP DP STR MK147 16GA	19.93	1763.69	-0.42	106.08
	1	24" LCP DP STR MK147 16GA	19.93	1743.76	-0.42	106.00
	1	24" LCP DP STR MK147 16GA	19.93	1723.83	-0.42	105.91
S-19	1	24" LCP DP SH MK147 16GA	8.24	1715.59	-0.42	105.88
BEGIN RESTRAINED PIPE SECTION						
	1	24" LCP SR STR MK147 16GA	19.93	1695.66	-0.39	105.79
F-20	1	24"LCP SRS X SRB 22.5D ELB 3/16PL LSR	JT to P.I. P.I. 0.96	1694.70	-0.39	105.79
		PI to JOINT	P.I. to JT 0.56	1694.14	-0.40	105.79
	1	24" LCP SR STR MK147 16GA	19.93	1674.21	-0.40	105.71
S-21	1	24" LCP SR SH MK147 16GA	13.65	1660.56	-0.40	105.65

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## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation	
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>Project Number: 120534 Unit Number: 1 Designed By: KLB</span> <span>Oak Creek, Wisconsin 24" PCCP (L301) 24" Transmission Main - Puetz Road</span> <span>Page 5 of 8 Date: 12/21/2012 Rev: 1/08/2013</span> </div>							
F-22	1	24"LCP SRS X SRB 22.5D ELB 3/16PL LSL	JT to P.I. P.I.	0.96	1659.60	-0.40	105.65
		PI to JOINT	P.I. to JT	0.56	1659.04	-0.40	105.65
	1	24" LCP DP STR MK147 16GA		19.93	1639.11	-0.40	105.57
END OF RESTRAINED PIPE SECTION							
	1	24" LCP DP STR MK147 16GA		19.93	1619.18	-0.40	105.49
	1	24" LCP DP STR MK147 16GA		19.93	1599.25	-0.40	105.41
S-23	1	24" LCP DP SH MK147 16GA		10.26	1588.99	-0.40	105.36
BEGIN RESTRAINED PIPE SECTION							
	1	24" LCP SR STR MK147 16GA		19.93	1569.06	-0.40	105.28
F-24	1	24"LCP SRS X SRB 22.5D ELB 3/16PL LSL	JT to P.I. P.I.	0.96	1568.10	-0.40	105.28
		PI to JOINT	P.I. to JT	0.56	1567.54	-0.40	105.28
	1	24" LCP SR STR MK147 16GA		19.93	1547.61	-0.40	105.20
	1	24" LCP SR STR MK147 16GA		19.93	1527.68	-0.40	105.12
F-25	1	24"LCP SRS X SRB 22.5D ELB 3/16PL EXT 1ST LEG 0.62' LSR	JT to P.I. P.I.	1.58	1526.10	-0.40	105.11
		PI to JOINT	P.I. to JT	0.56	1525.54	-0.30	105.11
	1	24" LCP DP STR MK147 16GA		19.93	1505.61	-0.30	105.05
END OF RESTRAINED PIPE SECTION							

This schedule is furnished for your assistance and information only. It is not a substitute for the engineer's plans which govern and control the work.

## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Project Number: 120534	Oak Creek, Wisconsin	Page 6 of 8
Unit Number: 1	24" PCCP (L301)	Date: 12/21/2012
Designed By: KLB	24" Transmission Main - Puetz Road	Rev: 1/08/2013

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
S-26	1	24" LCP DP STR MK147 16GA W/ 8" TAN AMJS OL 8.11 FSE-BR	19.93	1485.68	-0.23	105.00
	1	24" LCP DP STR MK147 16GA	19.93	1465.75	1.01	105.20
	1	24" LCP DP STR MK147 16GA	19.93	1445.82	1.01	105.40
	1	24" LCP DP STR MK147 16GA	19.93	1425.89	1.01	105.60
	1	24" LCP DP STR MK147 16GA	19.93	1405.96	1.01	105.80
	1	24" LCP DP STR MK147 16GA	19.93	1386.04	1.01	106.00
	1	24" LCP DP STR MK147 16GA	19.93	1366.11	1.01	106.21
	1	24" LCP DP STR MK147 16GA	19.93	1346.18	1.01	106.41
	1	24" LCP DP STR MK147 16GA	19.93	1326.25	1.01	106.61
	1	24" LCP DP STR MK147 16GA	19.93	1306.32	1.01	106.81
	1	24" LCP DP STR MK147 16GA	19.93	1286.39	1.01	107.01
	1	24" LCP DP STR MK147 16GA	19.93	1266.46	1.01	107.21
	1	24" LCP DP STR MK147 16GA	19.93	1246.53	1.01	107.41
	1	24" LCP DP STR MK147 16GA	19.93	1226.60	1.01	107.61
	1	24" LCP DP STR MK147 16GA	19.93	1206.67	1.01	107.81
	1	24" LCP DP STR MK147 16GA	19.93	1186.75	1.01	108.01
	1	24" LCP DP STR MK147 16GA	19.93	1166.82	1.01	108.21
	1	24" LCP DP STR MK147 16GA	19.93	1146.89	1.01	108.42
	1	24" LCP DP STR MK147 16GA	19.93	1126.96	1.01	108.62
	1	24" LCP DP STR MK147 16GA	19.93	1107.03	1.01	108.82
	1	24" LCP DP STR MK147 16GA	19.93	1087.10	1.01	109.02
	1	24" LCP DP STR MK147 16GA	19.93	1067.17	1.01	109.22
	1	24" LCP DP STR MK147 16GA	19.93	1047.24	1.01	109.42

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**HANSON PRESSURE PIPE \* LAYING SCHEDULE**

Project Number: 120534	Oak Creek, Wisconsin	Page 7 of 8
Unit Number: 1	24" PCCP (L301)	Date: 12/21/2012
Designed By: KLB	24" Transmission Main - Puetz Road	Rev: 1/08/2013

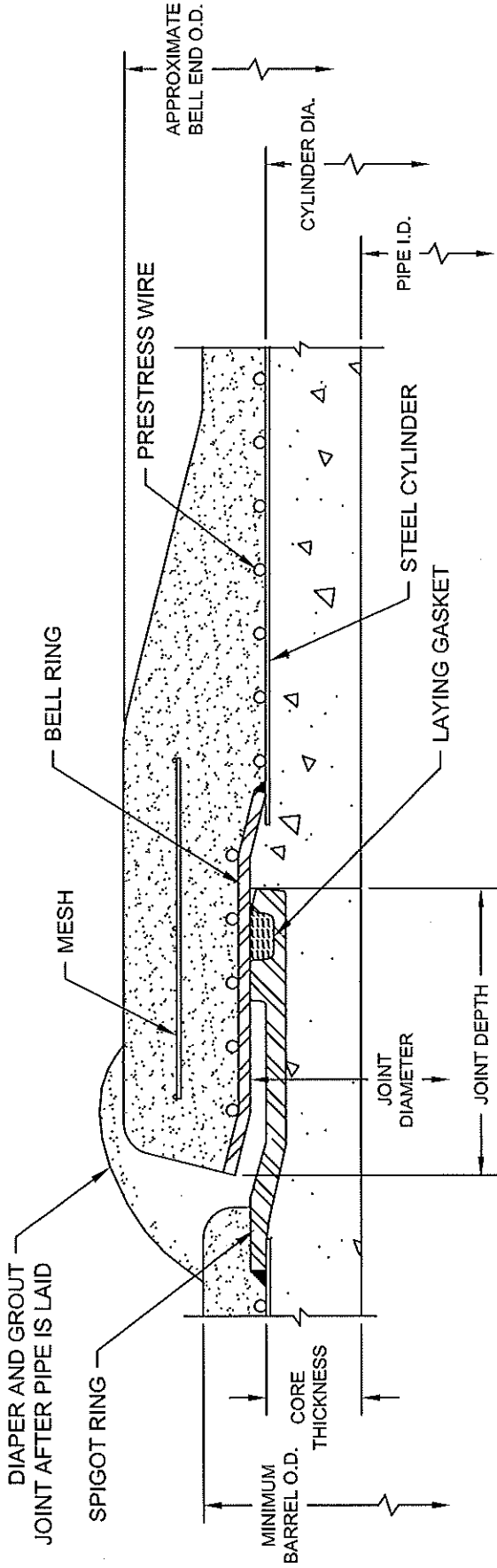
Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
	1	24" LCP DP STR MK147 16GA	19.93	1027.31	1.01	109.62
	1	24" LCP DP STR MK147 16GA	19.93	1007.38	1.01	109.82
	1	24" LCP DP STR MK147 16GA	19.93	987.46	1.01	110.02
	1	24" LCP DP STR MK147 16GA	19.93	967.53	1.01	110.22
	1	24" LCP DP STR MK147 16GA	19.93	947.60	1.01	110.42
	1	24" LCP DP STR MK147 16GA	19.93	927.67	1.01	110.62
	1	24" LCP DP STR MK147 16GA	19.93	907.75	3.84	111.39
	1	24" LCP DP STR MK147 16GA	19.93	887.84	3.84	112.15
	1	24" LCP DP STR MK147 16GA	19.93	867.92	3.84	112.92
	1	24" LCP DP STR MK147 16GA	19.93	848.01	3.84	113.68
	1	24" LCP DP STR MK147 16GA	19.93	828.09	3.84	114.45
	1	24" LCP DP STR MK147 16GA	19.93	808.18	3.84	115.21
	1	24" LCP DP STR MK147 16GA	19.93	788.26	3.84	115.97
	1	24" LCP DP STR MK147 16GA	19.93	768.35	3.84	116.74
	1	24" LCP DP STR MK147 16GA	19.93	748.43	3.84	117.50
	1	24" LCP DP STR MK147 16GA	19.93	728.52	3.84	118.27
	1	24" LCP DP STR MK147 16GA	19.93	708.60	3.84	119.03
	1	24" LCP DP STR MK147 16GA	19.93	688.68	3.84	119.79
	1	24" LCP DP STR MK147 16GA	19.93	668.77	3.84	120.56
	1	24" LCP DP STR MK147 16GA	19.93	648.85	3.84	121.32
	1	24" LCP DP STR MK147 16GA	19.93	628.94	3.84	122.09
	1	24" LCP DP STR MK147 16GA	19.93	609.02	3.84	122.85
	1	24" LCP DP STR MK147 16GA	19.93	589.11	3.84	123.62

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## HANSON PRESSURE PIPE \* LAYING SCHEDULE

Code	Quantity	Description	Laying Length	Station	Grade %	Invert Elevation
Project Number: 120534			Oak Creek, Wisconsin			Page 8 of 8
Unit Number: 1			24" PCCP (L301)			Date: 12/21/2012
Designed By: KLB			24" Transmission Main - Puetz Road			Rev: 1/08/2013
S-27	1	24" LCP DP STR MK147 16GA	19.93	569.19	3.84	124.38
	1	24" LCP DP STR MK147 16GA	19.93	549.28	3.84	125.14
	1	24" LCP DP STR MK147 16GA	19.93	529.36	3.84	125.91
	1	24" LCP DP STR MK147 16GA	19.93	509.45	3.84	126.67
	1	24" LCP DP STR MK147 16GA	19.93	489.53	3.84	127.44
	1	24" LCP DP STR MK147 16GA	19.93	469.62	3.84	128.20
	1	24" LCP DP STR MK147 16GA	19.93	449.70	3.84	128.96
	1	24" LCP DP STR MK147 16GA	19.93	429.79	3.84	129.73
	1	24" LCP DP STR MK147 16GA	19.93	409.87	3.87	130.50
	1	24" LCP DP STR MK147 16GA W/ 6" TAN AMJS OL 9.87' FSE-TR	19.93	389.94	0.00	130.50
	1	24" LCP DP STR MK147 16GA	19.93	370.01	-0.95	130.31
	1	24" LCP DP STR MK147 16GA	19.93	350.08	-0.95	130.12
	1	24" LCP DP STR MK147 16GA	19.93	330.15	-0.95	129.93
	1	24" LCP DP STR MK147 16GA	19.93	310.22	-0.95	129.74
	1	24" LCP DP STR MK147 16GA	19.93	290.29	-0.95	129.55
	1	24" LCP DP STR MK147 16GA	19.93	270.37	-0.95	129.36
S-28	1	24" LCP DP STR MK147 16GA	19.93	250.44	-0.95	129.17
S-29	1	24" LCP DPS X DPS SH MK147 16GA	7.93	242.51	-0.95	129.10
F-30	1	24" LCP DPB X DPB FOLL/RING CLOSURE (W/ ACCESSORIES) 3/16PL 6.0' LONG CUT IN FIELD	4.00	238.51	-0.95	129.06
F-31	1	24" LCP DPS X DPS ADAPTER	1.03	237.48	-0.95	129.05
INSTALL FOLLOWER RING CLOSURE LAST						

This schedule is furnished for your assistance and information only. It is not a substitute for the engineer's plans which govern and control the work.



PIPE I.D.	CORE THICKNESS	JOINT DIAMETER	CYLINDER O.D.	APPROXIMATE WEIGHT (#/L.F.)	APPROXIMATE BELL OUTSIDE DIA.	MINIMUM BARREL OUTSIDE DIA.
16	1	18 1/2	18	140	22 1/2	20
18	1 1/8	20 3/4	20 1/4	155	24 3/4	22 1/4
20	1 1/4	23	22 1/2	185	27	24 1/2
24	1 1/2	27 1/2	27	240	31 1/2	29
30	1 7/8	34 1/4	33 3/4	350	38 1/4	35 3/4
36	2 1/4	41	40 1/2	475	45	42 1/2
42	2 5/8	47 1/4	47 1/4	590	51 1/4	49 1/4
48	3	54	54	760	58	56

NOTES:  
ALL DIMENSIONS IN INCHES EXCEPT AS SHOWN

JOINT RINGS SHOWN IN THIS DRAWING ARE JUST FOR ILLUSTRATION PURPOSES AND MAY NOT REFLECT THE ACTUAL JOINT USED ON A PARTICULAR PROJECT. PLEASE REFER TO THE JOINT DETAIL DRAWING FOR JOINTS USED ON A SPECIFIC PROJECT.

48552-A REV.B



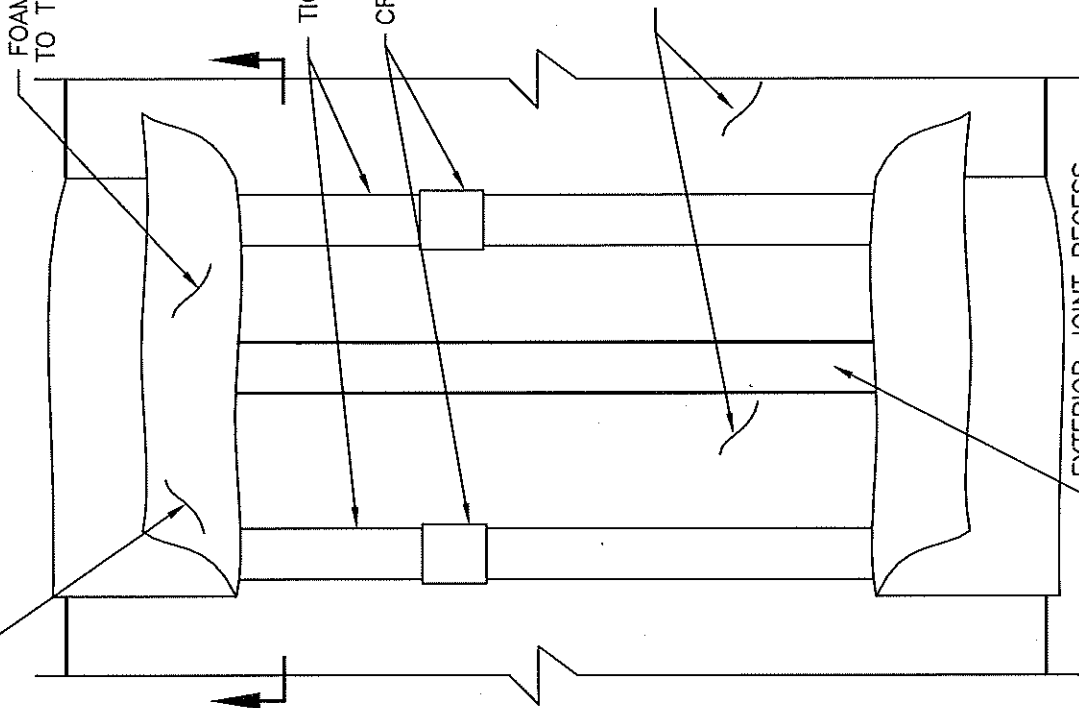
OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-48" LCP  
TYPICAL PIPE DIMENSIONS

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

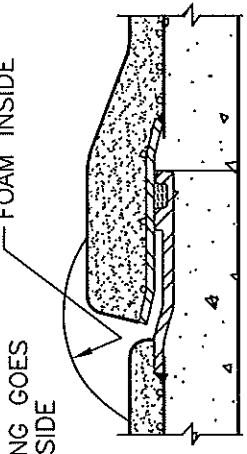
DWG. NO.  
120534 - DR01  
REV.

FOLD FLAPS BACK FOR GROUTING THEN EXTEND OVER POURING GAP AFTER GROUTING IS COMPLETE



FOAM INSIDE

FOAM INSIDE

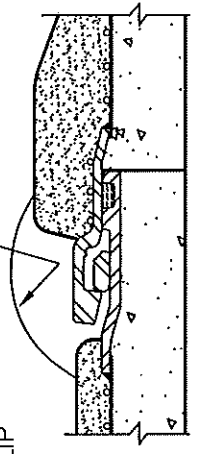


LCP DEEP JOINT

TIGHTENED STEEL STRAP

CRIMPED STRAP CLIP

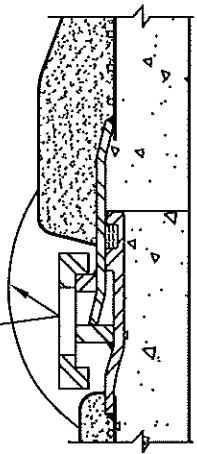
FOAM INSIDE



LCP SNAP RING RESTRAINED JOINT

MORTAR COATING

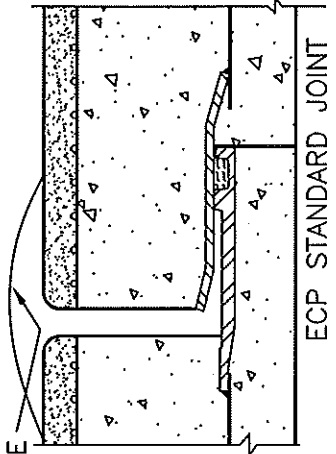
FOAM INSIDE



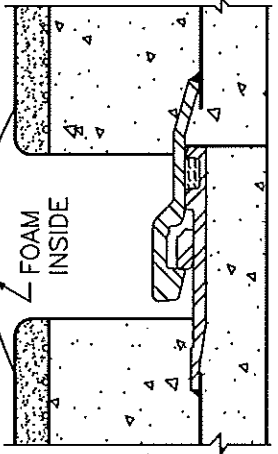
LCP HARNESSSED RESTRAINED JOINT

NOTES:

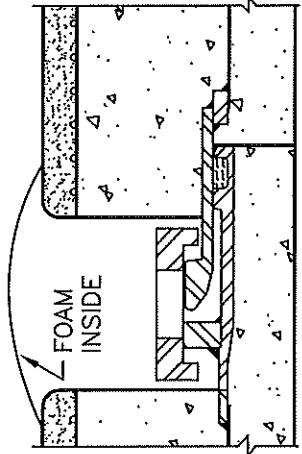
- 1) FOAM LINING STITCHED IN PLACE AT MANUFACTURING PLANT.
- 2) INSTALL DIAPER WITH FOAM LINING TO INSIDE.
- 3) WHILE PLACING THE DIAPER AROUND THE PIPE, INSURE THAT THE FOAM LINING IS IN CLOSE CONTACT WITH THE MORTAR COATING ALL AROUND ESPECIALLY AT THE BOTTOM OF THE PIPE. THIS WILL AVOID "BUNCHING" OR SAGGING OF THE DIAPER RESULTING IN LEAKS.
- 4) GROUT DIAPERS FOR UNRESTRAINED JOINTS ARE NARROWER IN WIDTH THAN FOR RESTRAINED JOINTS. INSURE THAT THE CORRECT WIDTH DIAPER IS BEING USED.



ECP STANDARD JOINT



ECP SNAP RING RESTRAINED JOINT



ECP HARNESSSED RESTRAINED JOINT

63081-A

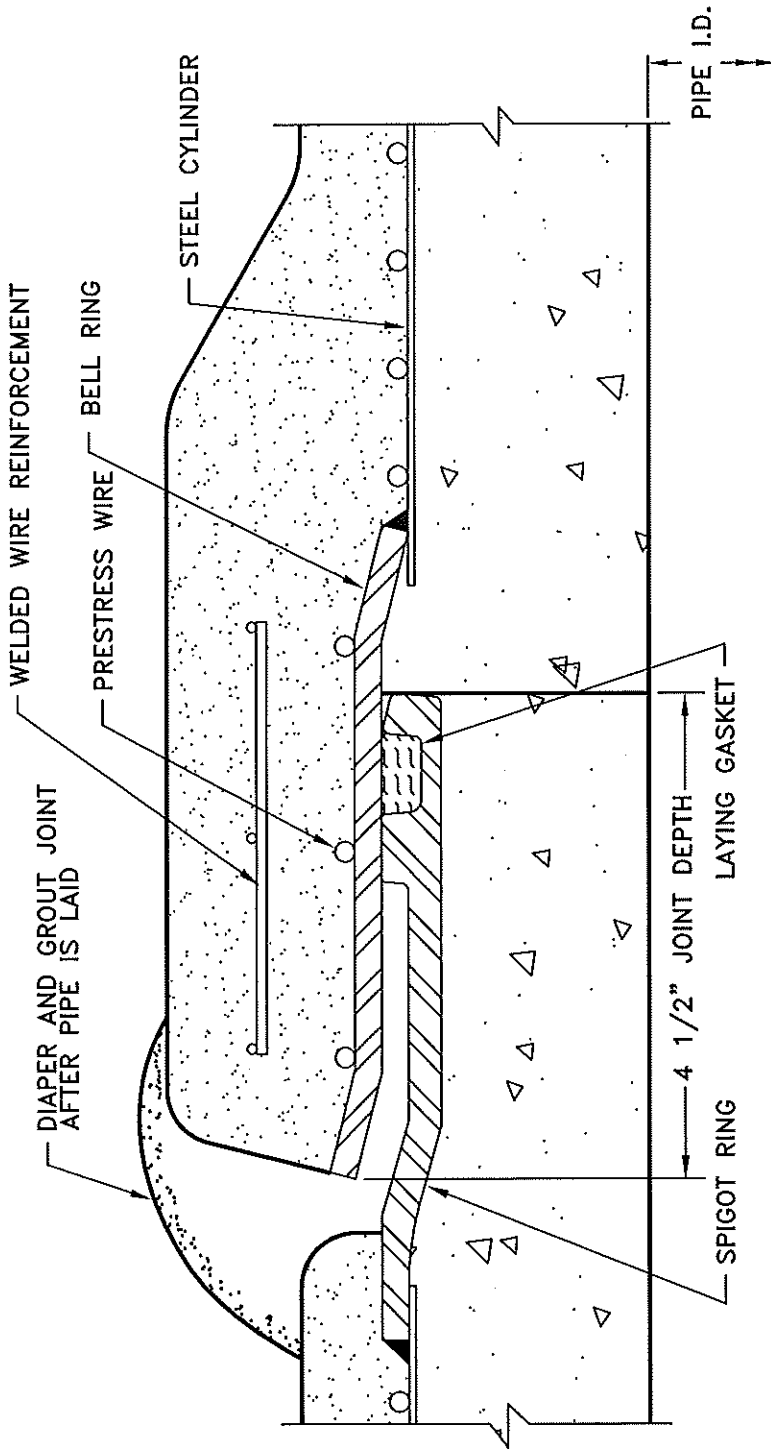


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

FOAM LINED JOINT DIAPERS  
INSTALLATION PROCEDURE

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR02  
REV.



49557-A REV.C

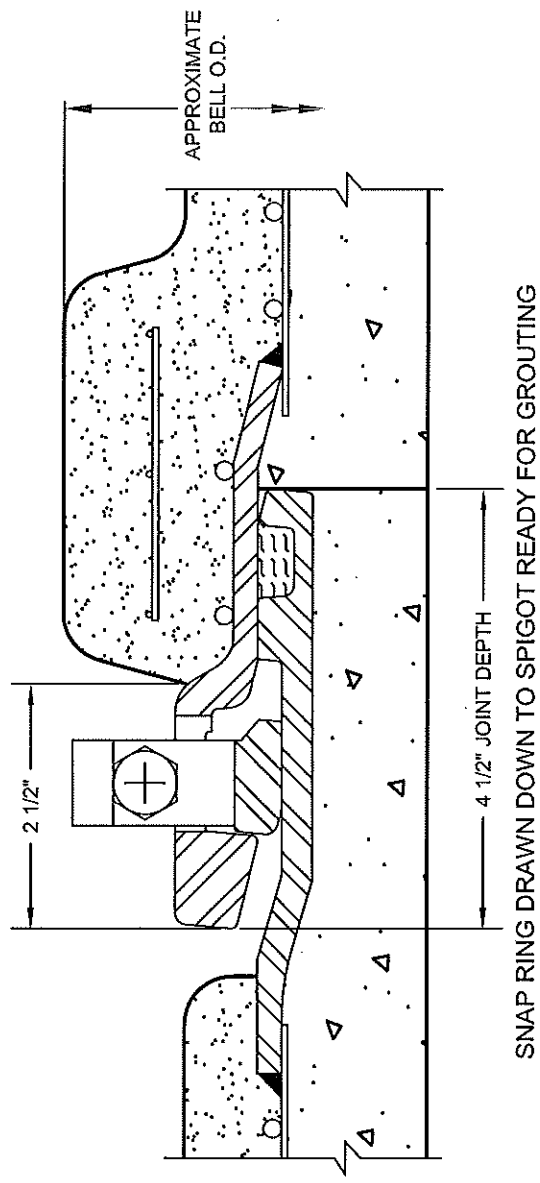
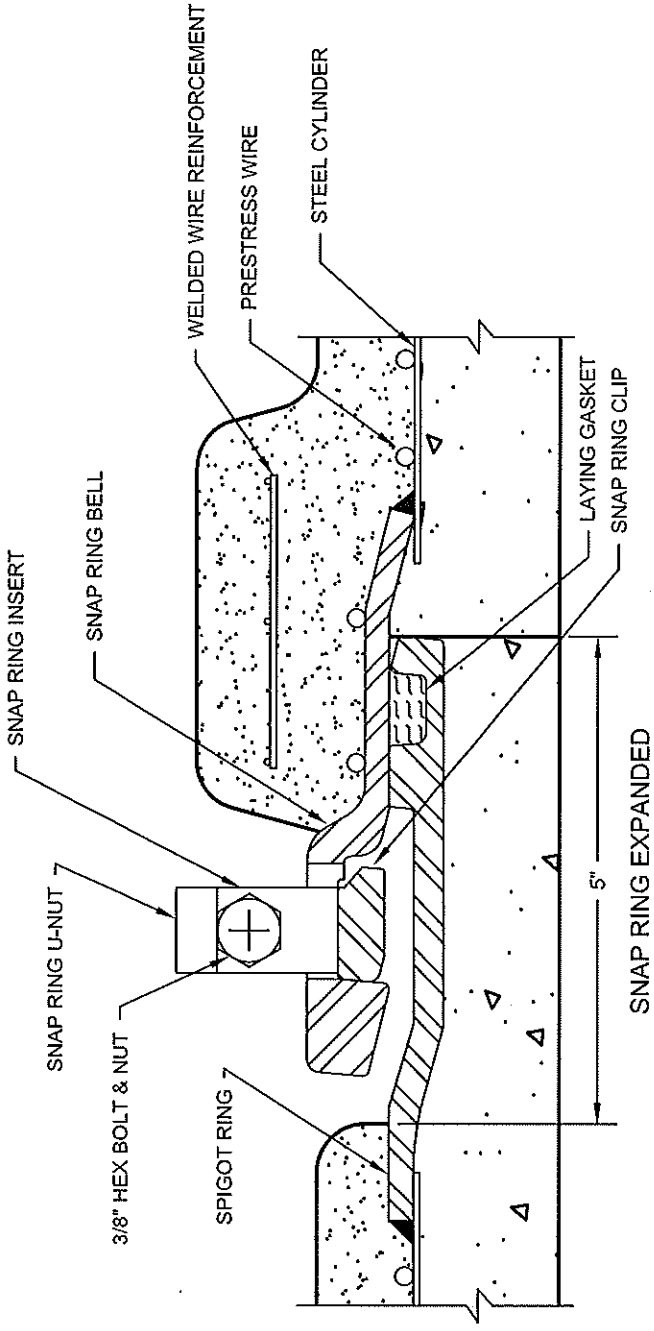


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-36" L-301  
DEEP JOINTS

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR03  
REV.



PIPE I.D.	APPROXIMATE BELL O.D.
16"	22 1/2"
18"	24 3/4"
20"	27"
24"	31 1/2"
30"	38 1/4"
36"	45"

47636-A REV.D



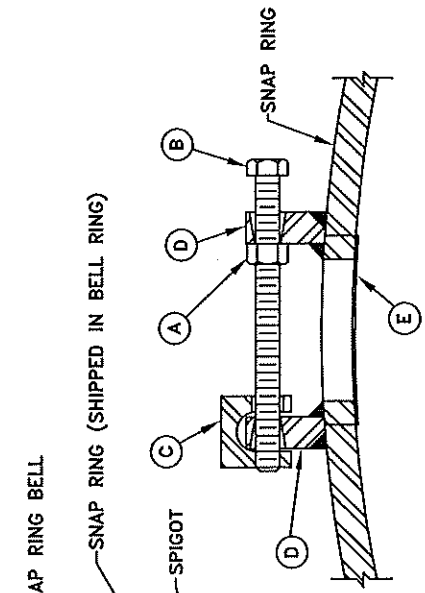
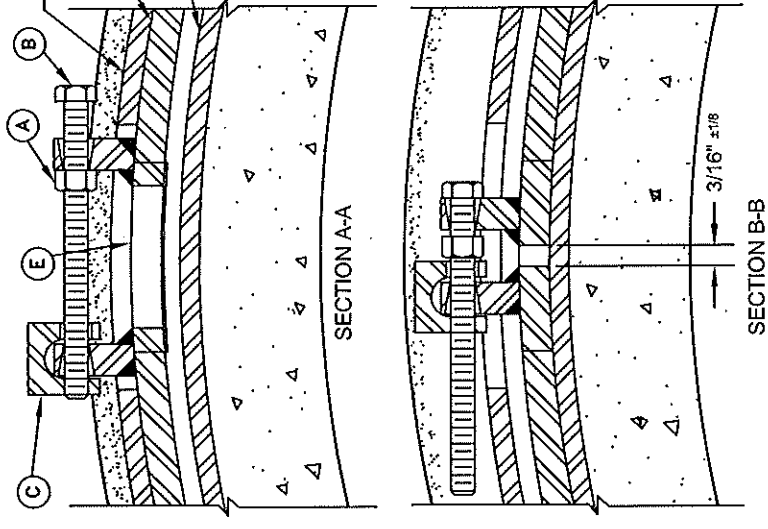
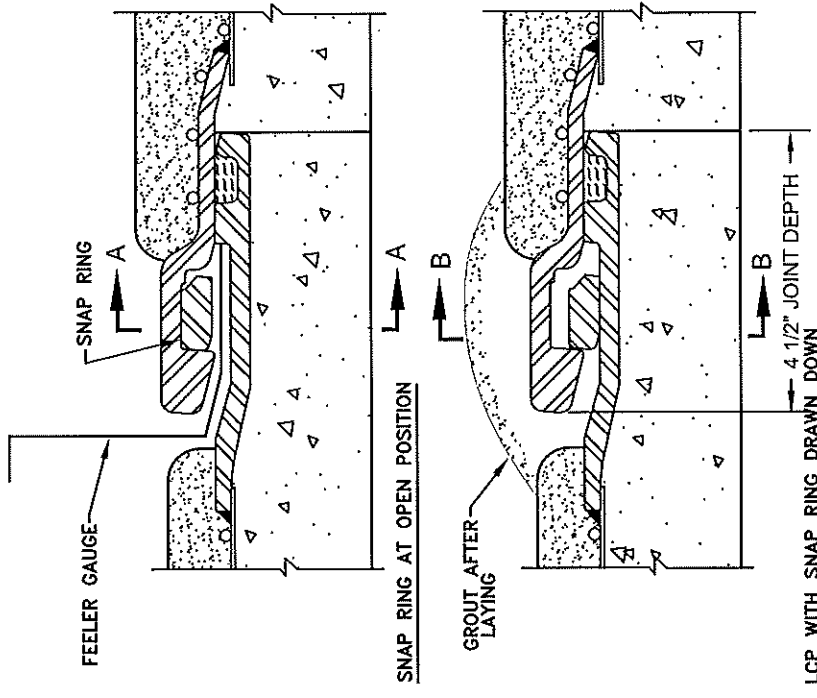
OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-36" LCP SNAP RING  
JOINT ASSEMBLY

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012  
REV.

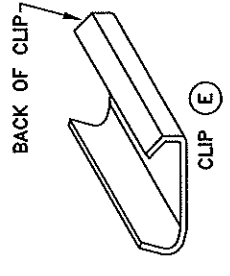
DWG. NO.  
120534 - DR04



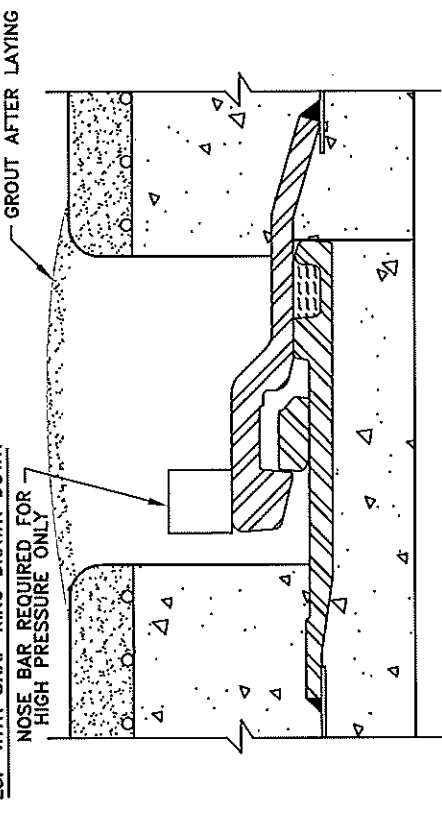


**MAKING JOINT**

- 1) MAKE SURE CLIP (E) IS APPROXIMATELY CENTERED BETWEEN SNAP RING ENDS.
- 2) "HOME" JOINT AS WITH STANDARD JOINT AND CHECK GASKET LOCATION.
- 3) IF GASKET CAN BE FELT ANYWHERE AROUND THE CIRCUMFERENCE, THE JOINT MUST BE DISASSEMBLED. REPLACE THE GASKET IF IT HAS BEEN CUT OR DAMAGED. REPEAT STEP 2.
- 4) TIGHTEN BOLT (B) TO DRAW SNAP RING DOWN. BE SURE THAT CENTER NUT (A) IS NOT PRESSED AGAINST U-NUT AND PREVENTING SNAP RING FROM BEING FULLY TIGHTENED AGAINST SPIGOT.
- 5) CHECK GAP BETWEEN ENDS OF SNAP RING ( $3/16" \pm 1/8$ ). ENSURE THAT SNAP RING IS IN CLOSED POSITION BY CHECKING THRU GROUT HOLES AROUND THE CIRCUMFERENCE OF THE BELL.
- 6) PLACE GROUT BAND AROUND JOINT AND POUR FULL WITH FLUID GROUT.
- 7) JOINT MUST BE GROUTED BEFORE LINE IS PRESSURIZED.



- (A) 3/8"-16 HEX NUT
- (B) 3/8"-16 x 4 1/2" LONG HEX HEAD BOLT
- (C) U-NUT
- (D) SNAP RING LUG
- (E) CLIP



ECP WITH SNAP RING DRAWN DOWN

62460-A REV.C



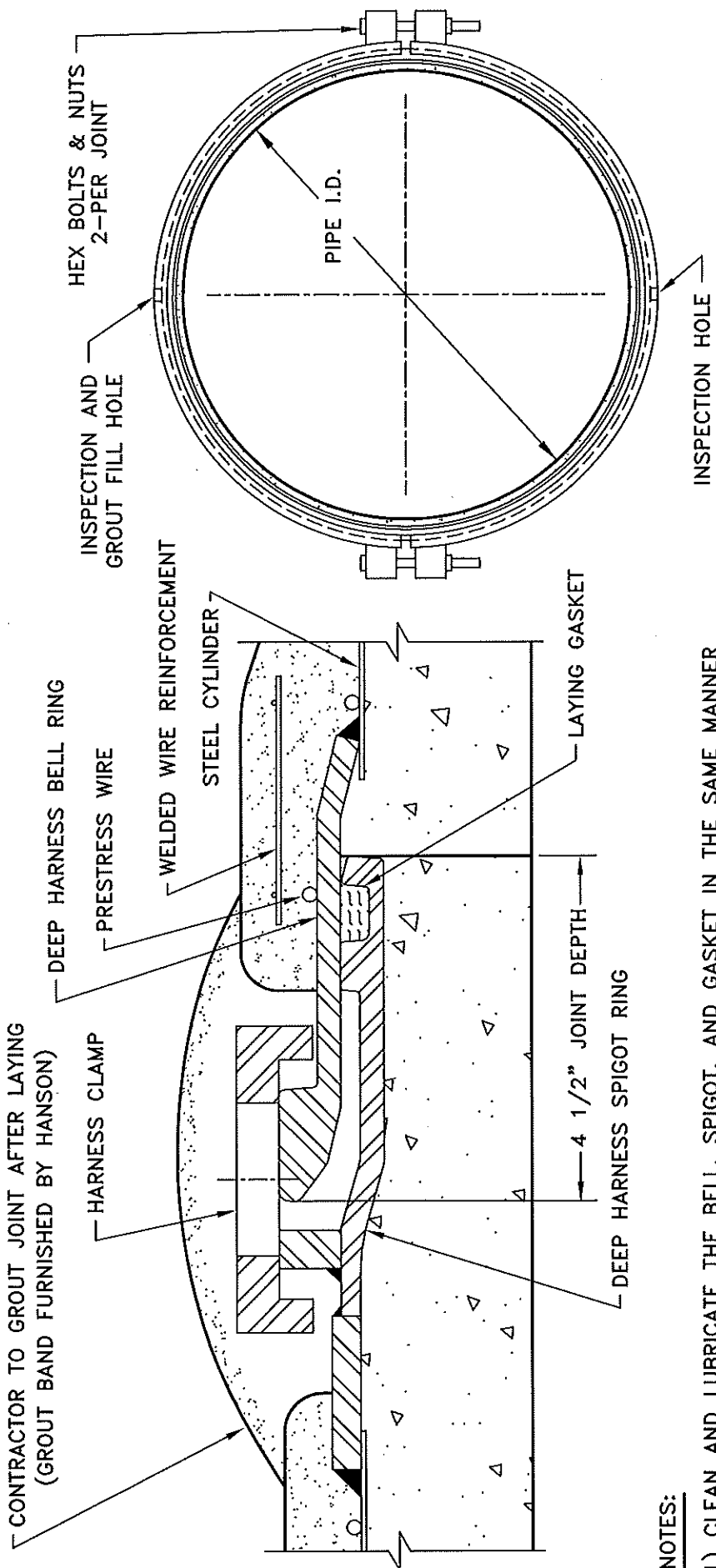
OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

HOW TO MAKE A SNAP RING  
RESTRAINED JOINT

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR05

REV.



**HARNESSE CLAMP SECTION**

**NOTES:**

- 1) CLEAN AND LUBRICATE THE BELL, SPIGOT, AND GASKET IN THE SAME MANNER AS A STANDARD JOINT.
- 2) PUSH JOINT PARTWAY HOME AND CHECK POSITION OF GASKET. PUSH THE JOINT COMPLETELY HOME IF THE GASKET IS SEATED PROPERLY.
- 3) PLACE THE HARNESSE CLAMP AROUND THE JOINT. INSTALL AND TIGHTEN THE BOLTS. TAP AROUND THE CLAMP WITH A HAMMER WHILE TIGHTENING THE BOLTS TO AID IN FULLY SEATING THE CLAMP. CHECK THE CLAMP ENGAGEMENT AT THE END OF THE CLAMP PIECES BY THE BOLTS AND AT THE TOP AND BOTTOM INSPECTION AND GROUT HOLES. THE CLAMP MUST BE TIGHT AGAINST THE OUTER BELL AND SPIGOT SURFACES AS SHOWN.
- 4) PLACE GROUT BAND AROUND THE JOINT AND POUR FULL WITH A WET GROUT. MORTAR THE INTERIOR OF THE JOINT IF THE PROJECT REQUIRES.
- 5) JOINT MUST BE GROUTED BEFORE LINE IS PRESSURIZED.

47004-A REV.D



OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

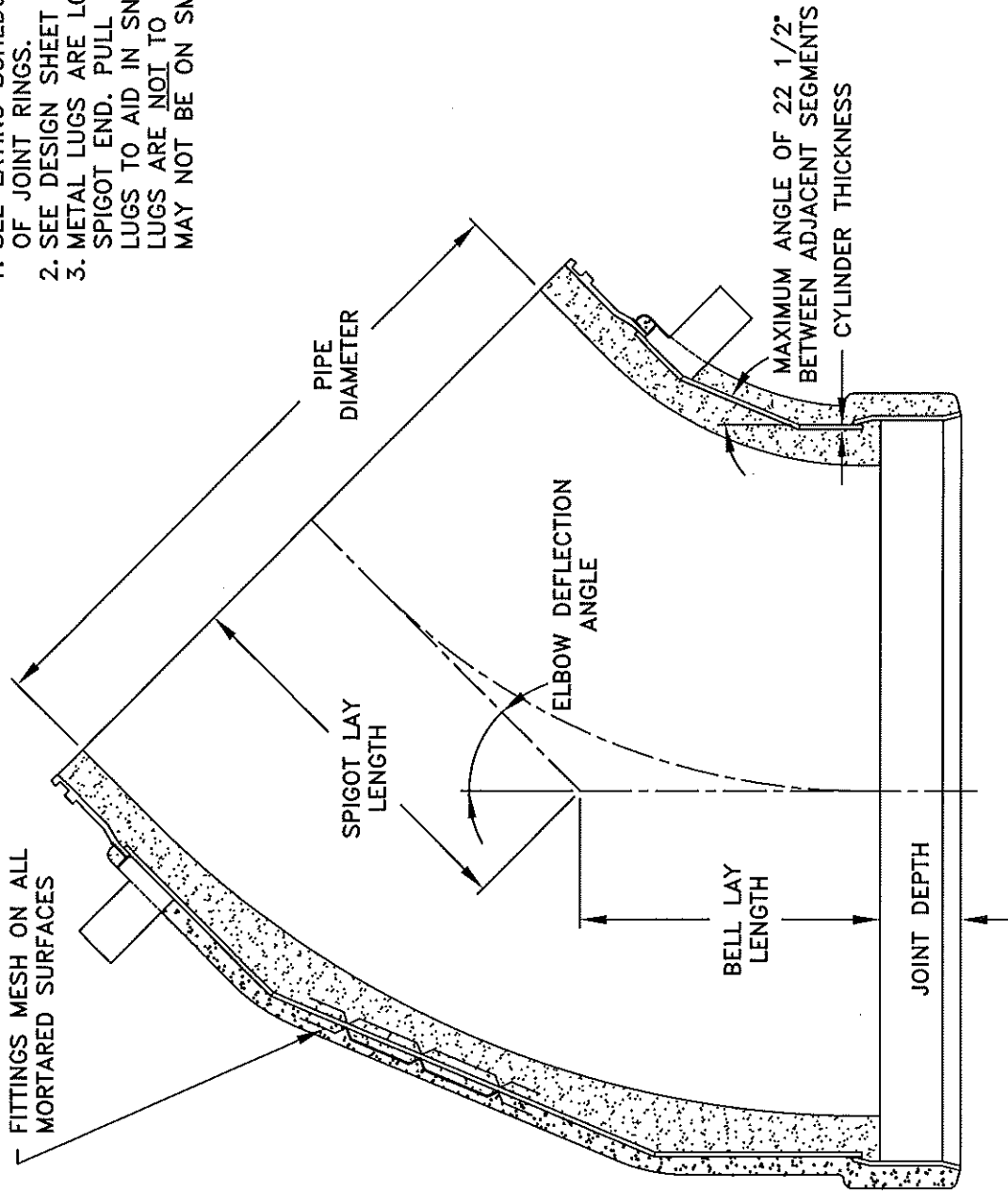
16"-36" LCP  
DEEP HARNESSE JOINT

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR06  
REV.

**NOTES:**

1. SEE LAYING SCHEDULE FOR LAYING LENGTH AND TYPE OF JOINT RINGS.
2. SEE DESIGN SHEET FOR CYLINDER THICKNESS.
3. METAL LUGS ARE LOCATED AT THE SPRINGLINE OF THE SPIGOT END. PULL HOIST MAY BE ATTACHED TO THE LUGS TO AID IN SNUGGING THE JOINT HOME. THESE LUGS ARE NOT TO BE USED TO LIFT THE ELBOW. LUGS MAY NOT BE ON SMALL DEGREE ELBOWS.



48683-A REV.F

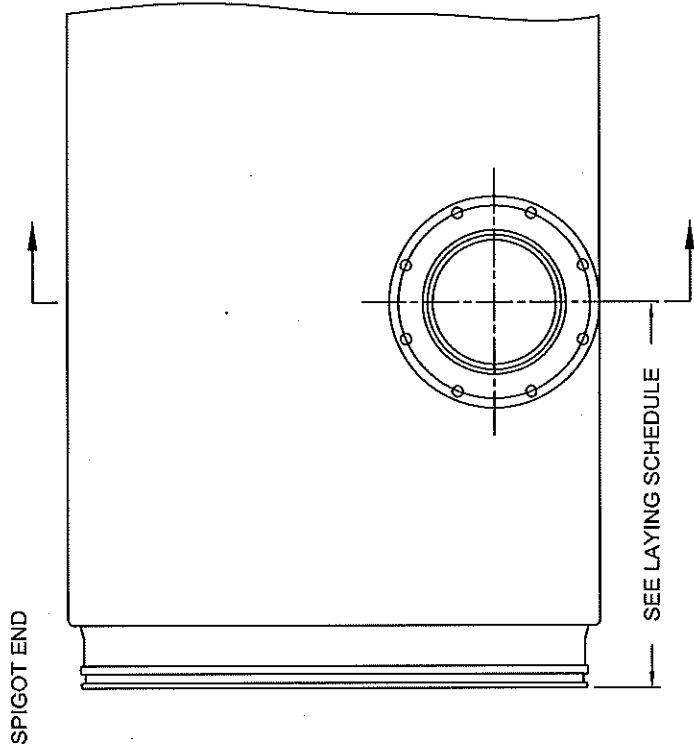
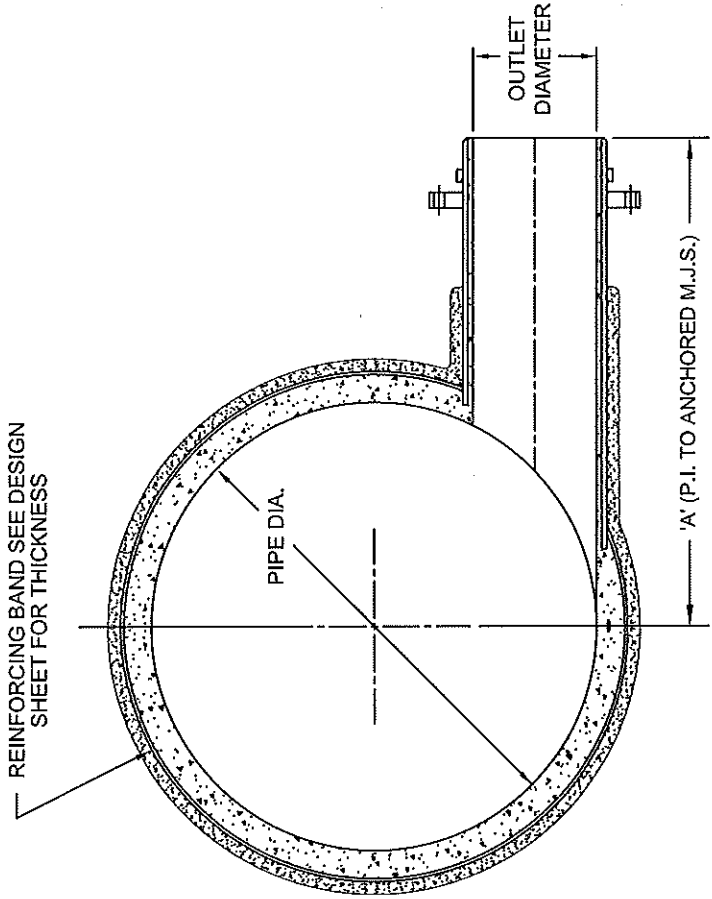


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-36" LCP & 36" ECP  
TYPICAL ELBOW

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR07  
REV.



PIPE DIA.	'A' P.I. TO ANCH. M.J.S.
16"	2.33'
18"	2.43'
20"	2.52'
24"	2.71'
30"	2.99'
36"	3.27'
42"	3.55'
48"	3.83'

- NOTES:**
1. WELDED WIRE REINFORCEMENT AND MORTAR AS SHOWN.
  2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
  3. M.J.S. NUTS, BOLTS AND GASKET NOT SUPPLIED BY HANSON
  4. THIS OUTLET IS SHOWN ON 'BOTTOM RIGHT' AND COULD ALSO BE USED FOR 'TOP LEFT'. IF 'BOTTOM LEFT' OR 'TOP RIGHT' ORIENTATION IS SHOWN ON LAYING SCHEDULE, OUTLET WILL BE INSTALLED FACING LEFT.

**S-26, 27**

622214-B

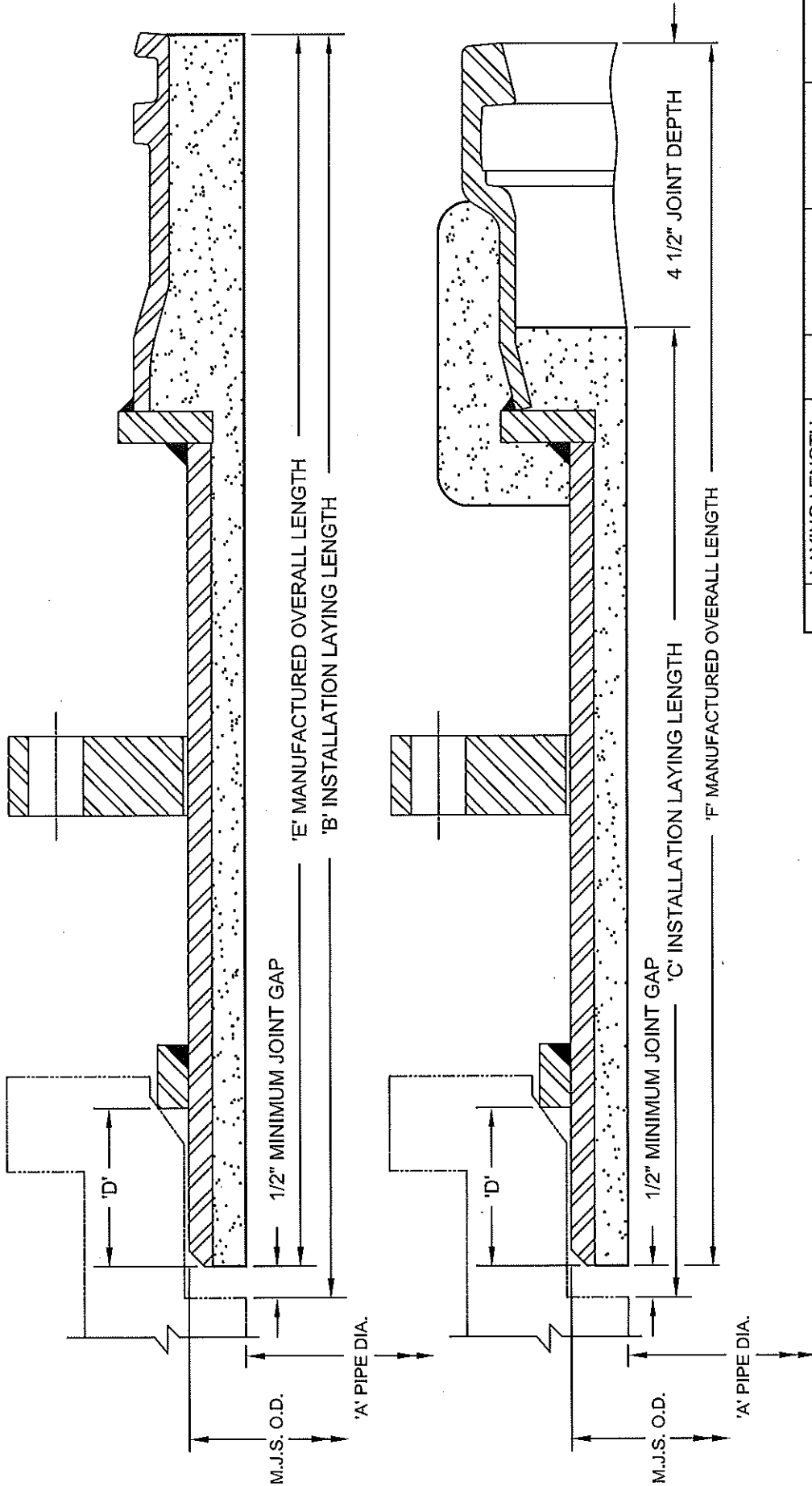
Hanson  
HEIDELBERGCEMENT Group  
Hanson Pressure Pipe

OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

3" - 14" TANGENT  
ANCHORED M.J.S. OUTLET  
IN 16"-48" LCP

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR08  
REV. A 1/03/2013



A	LAYING LENGTH			D	E	F	M.J.S. O.D.
	B	C					
16"	1.67'	1.27'	2.50"	19 1/2"	19 1/2"	19 1/4"	17.40"
18"	1.67'	1.27'	2.50"	19 1/2"	19 1/2"	19 1/4"	19.50"
20"	1.67'	1.27'	2.50"	19 1/2"	19 1/2"	19 1/4"	21.60"
24"	1.67'	1.27'	2.50"	19 1/2"	19 1/2"	19 1/4"	25.80"
30"	1.69'	1.29'	3.00"	19 3/4"	19 3/4"	19 1/2"	32.00"
36"	1.69'	1.29'	3.00"	19 3/4"	19 3/4"	19 1/2"	38.30"

- NOTES:**
1. APPLY WELDED WIRE REINFORCED MORTAR AS SHOWN.
  2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
  3. M.J.S. NUTS, BOLTS AND GASKET NOT SUPPLIED BY HANSON.
  4. INSTALLATION LAYING LENGTH INCLUDES A MINIMUM JOINT GAP OF APPROXIMATELY 1/2".

## F-2, 8, 9

63049-A REV.B

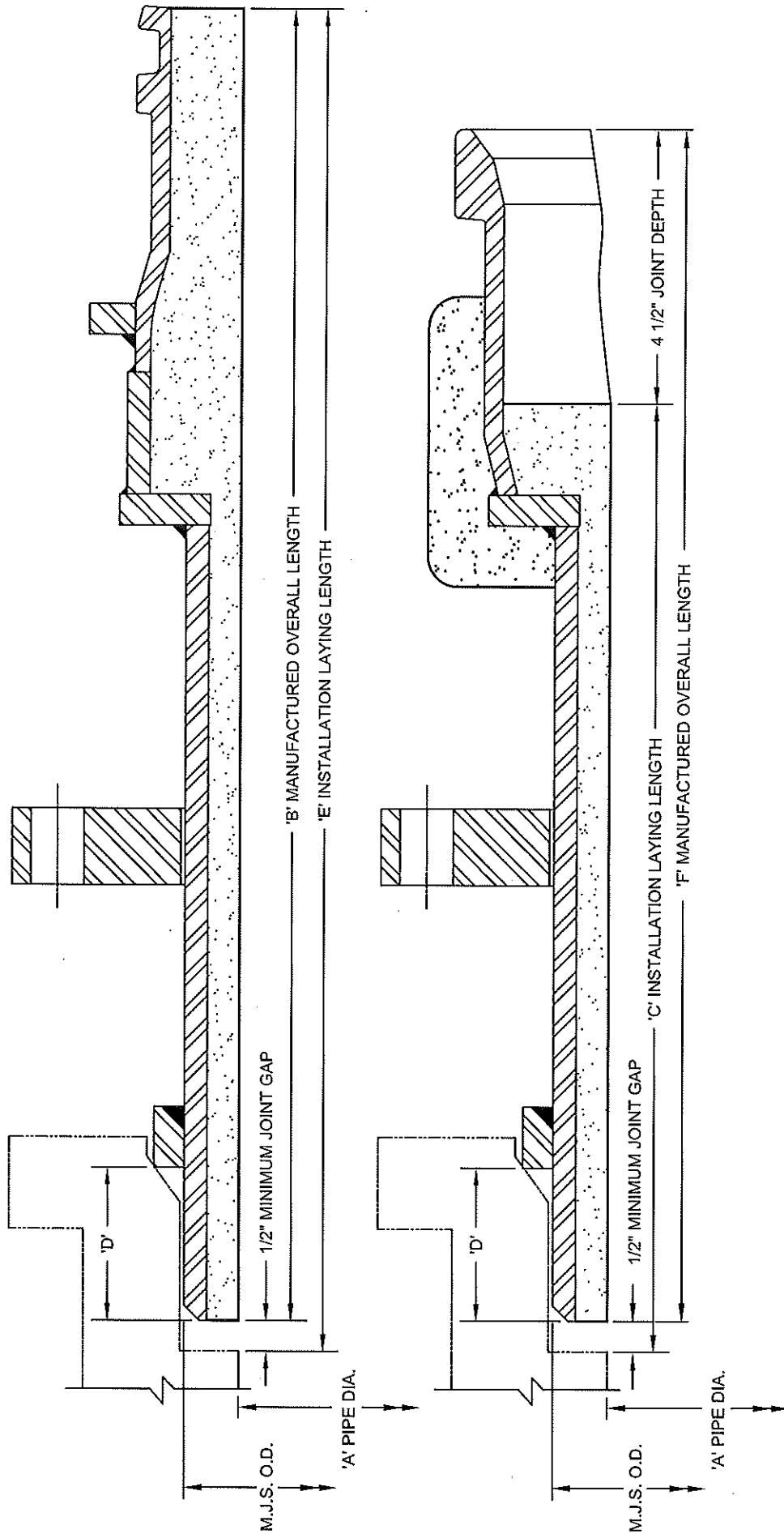


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-36" LCP & 36" ECP  
SNAP RING JOINT x ANCHORED M.J.S.  
ADAPTER

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR10  
REV. A 1/03/2013



A	LAYING LENGTH		D	E	F	M.J.S. O.D.
	B	C				
16"	1.83'	1.29'	2.50"	21 1/2"	19 1/2"	17.40"
18"	1.83'	1.29'	2.50"	21 1/2"	19 1/2"	19.50"
20"	1.83'	1.29'	2.50"	21 1/2"	19 1/2"	21.60"
24"	1.83'	1.29'	2.50"	21 1/2"	19 1/2"	25.80"
30"	1.85'	1.31'	3.00"	21 3/4"	19 3/4"	32.00"
36"	1.85'	1.31'	3.00"	21 3/4"	19 3/4"	38.30"

- NOTES:**
1. APPLY WELDED WIRE REINFORCED MORTAR AS SHOWN.
  2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
  3. M.J.S. NUTS, BOLTS AND GASKET NOT SUPPLIED BY HANSON.
  4. INSTALLATION LAYING LENGTH INCLUDES A MINIMUM JOINT GAP OF APPROXIMATELY 1/2".

## F-13

63051-A REV/B

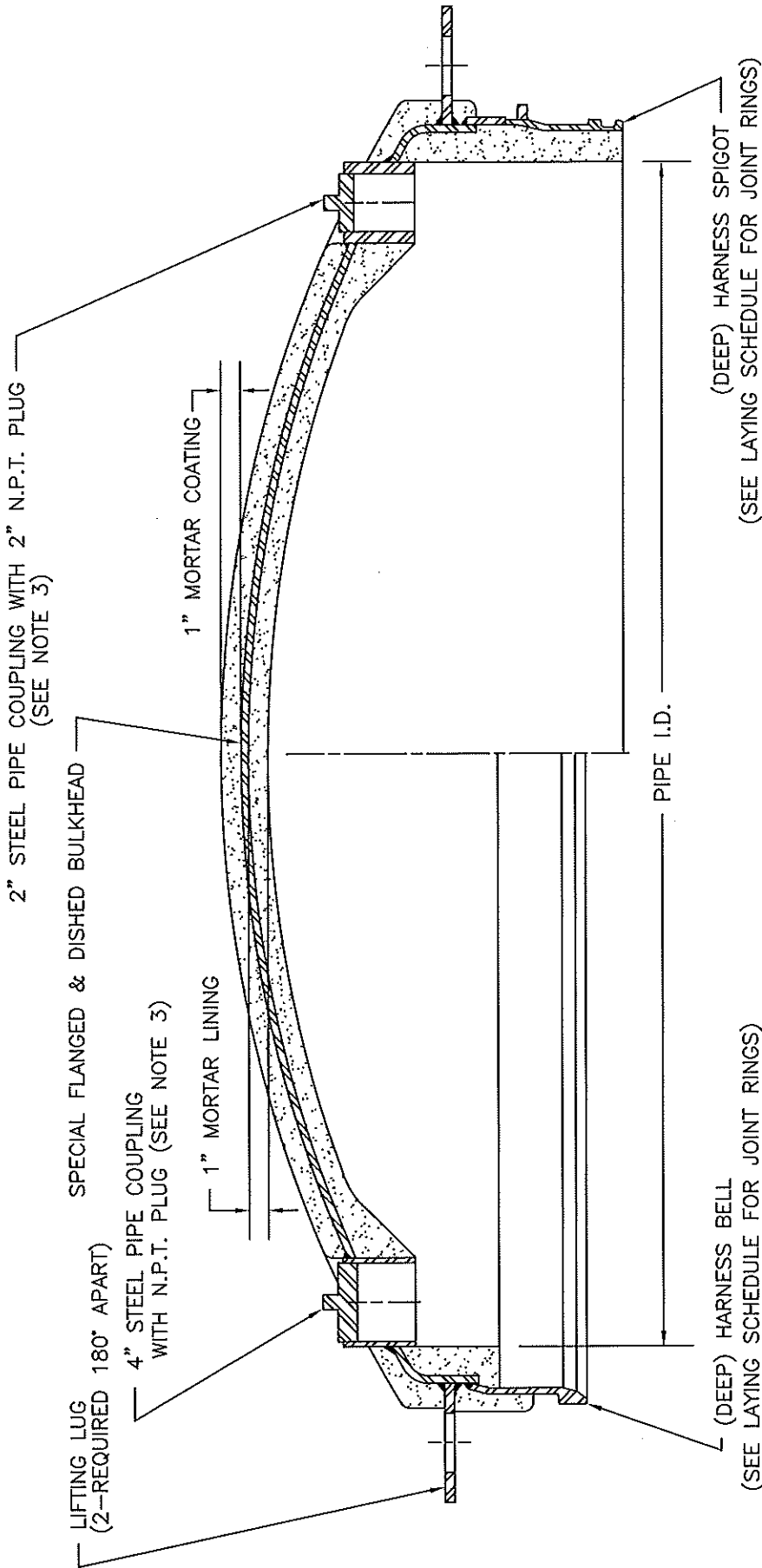


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-36" LCP & 36" ECP  
DEEP HARNESS JOINT  
X ANCHORED M.J.S. ADAPTER

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR11  
REV. A 1/03/2013



**NOTES:**

1. APPLY WELDED WIRE REINFORCED MORTAR AS SHOWN.
2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
3. PLUGS PLACED IN OUTLET FOR SHIPPING ONLY. CONTRACTOR MUST REASSEMBLE PRIOR TO PRESSURIZING LINE.

62430-A REV.J  
62429-A REV.H



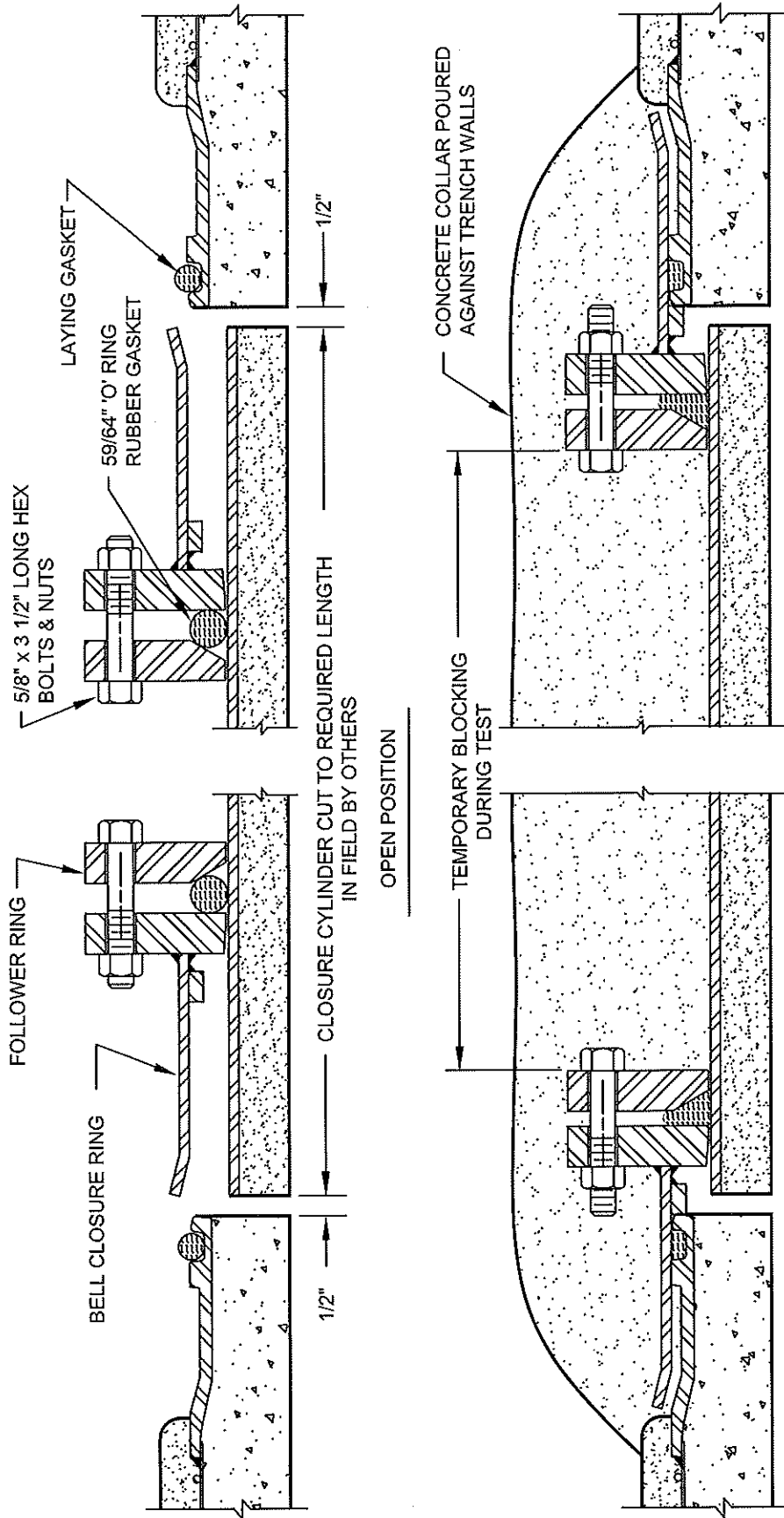
OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-48" LCP & 36"-96" ECP  
(DEEP) HARNESS BULKHEAD  
CAP AND PLUG DETAIL

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR12  
REV. A 1/03/2013

**F-14**



**NOTES:**

1. CLOSURE INSTALLATION MUST BE PRESSURE TESTED BEFORE CONCRETE COLLAR IS CAST.
2. CLOSURE CYLINDER THICKNESS EQUAL TO OR GREATER THAN FITTING PLATE THICKNESS LISTED ON DESIGN SHEET.

**F-30**

62688-A REV.C



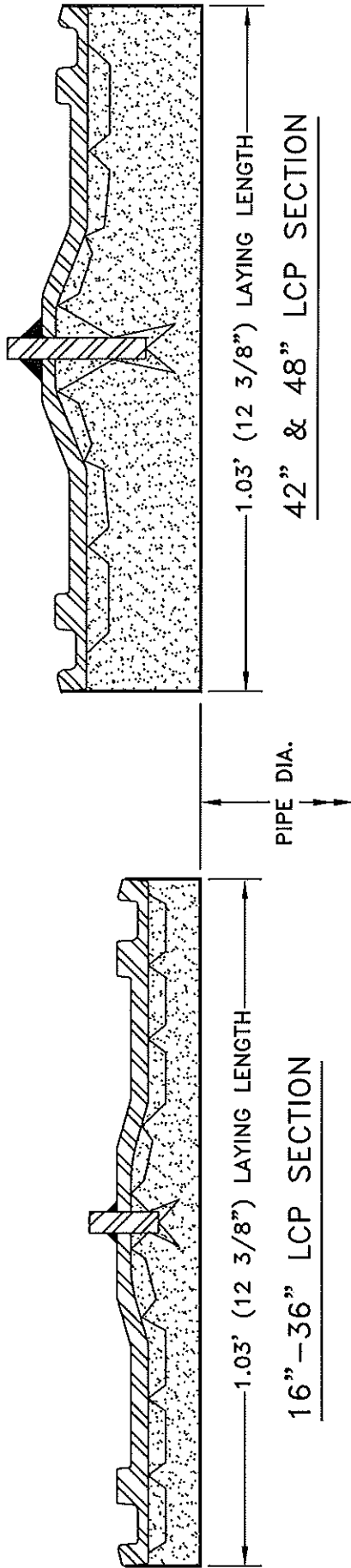
OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-48" LCP & 24"-48" ECP  
STANDARD & DEEP  
FOLLOWER RING CLOSURE INSTALLATION

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR13  
REV. A 1/03/2013





**NOTES:**

1. APPLY WELDED WIRE REINFORCED MORTAR AS SHOWN.
2. ALL EXPOSED STEEL PAINTED WITH JOINT RING PAINT.

27853-A REV.F



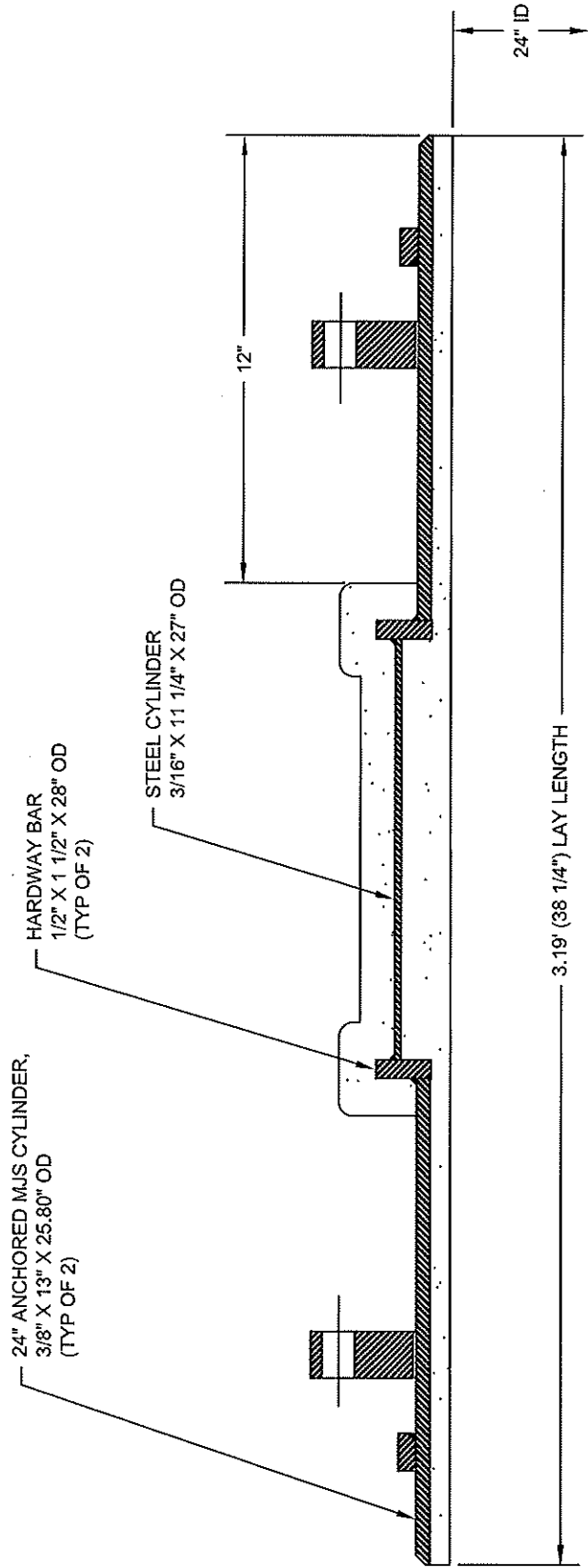
OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

16"-48" LCP  
STANDARD, DEEP OR SNAP RING JOINT  
DOUBLE SPIGOT ADAPTER

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR14  
REV. A 1/03/2013

**F-31**



**NOTES:**

1. APPLY REINFORCED MORTAR AS SHOWN.
2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
3. M.J.S. NUTS, BOLTS AND GASKETS NOT SUPPLIED BY HANSON.

**F-1**

47920-A

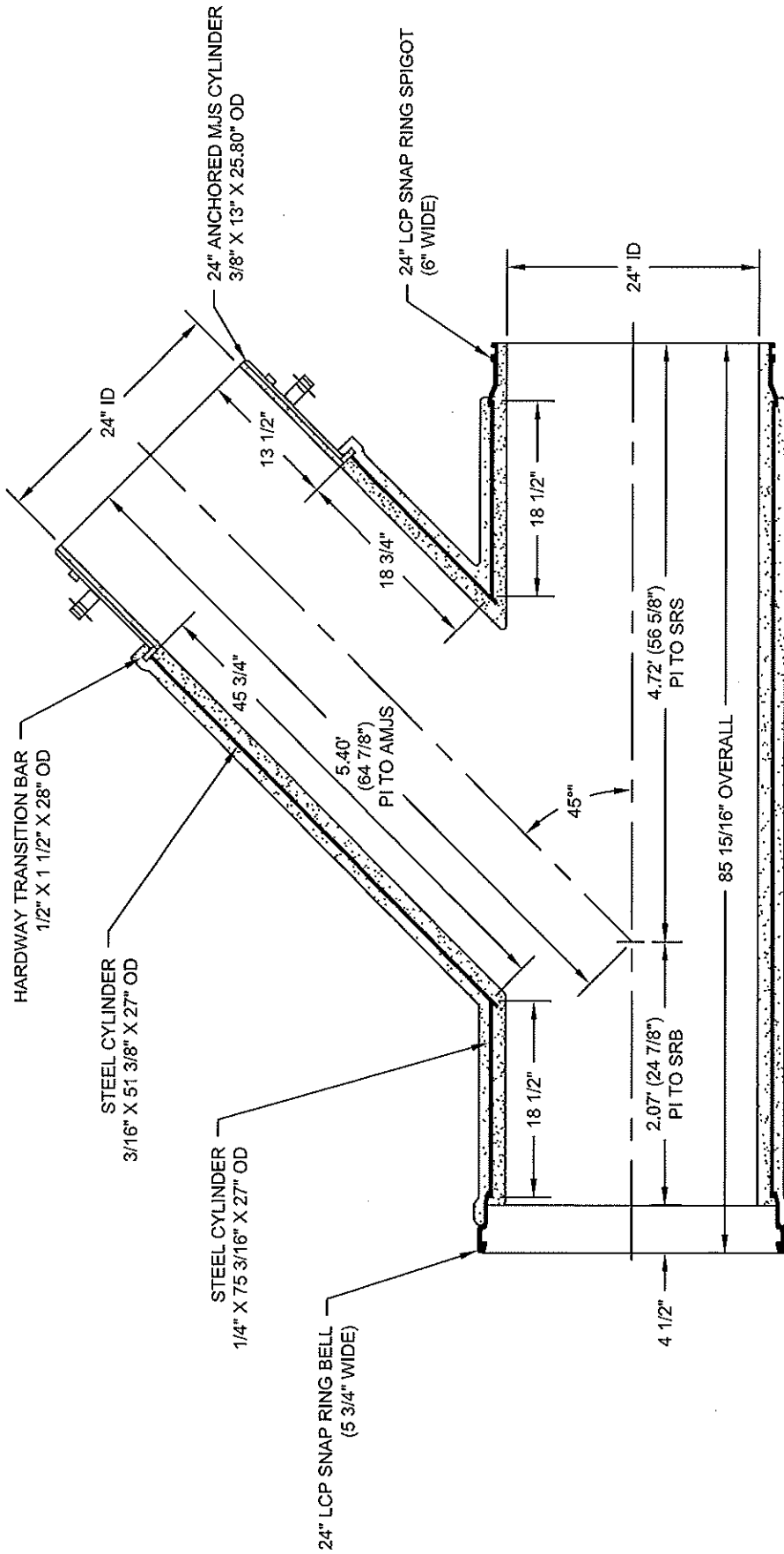


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

24" AMJS X AMJS ADAPTER

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR15  
REV. A 1/03/2013



**NOTES:**

1. APPLY REINFORCED MORTAR AS SHOWN.
2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
3. M.J.S. NUTS, BOLTS AND GASKETS NOT SUPPLIED BY HANSON.

47920-A

**F-12**

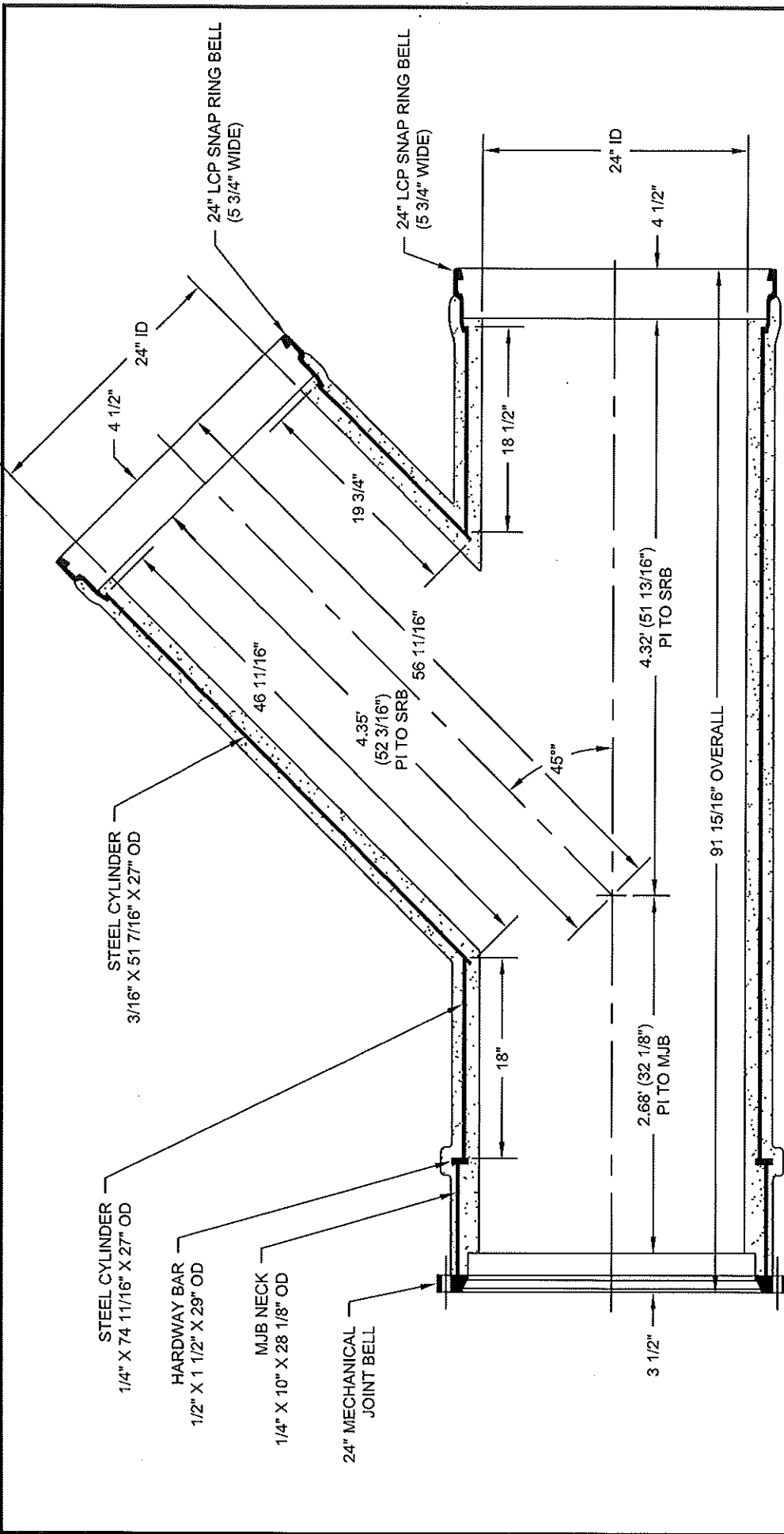


OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

24" SRB X 24" SRS X 24" AMJS 45 DEG. WYE

DRWN BY: KLB  
APPR. BY:  
DATE: 12/27/2012

DWG. NO.  
120534 - DR16  
REV. A 1/03/2013



**F-6**

**NOTES:**

1. APPLY REINFORCED MORTAR AS SHOWN.
2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
3. PAINT BOLT HOLES WITH ZINC RICH PAINT

18106-A

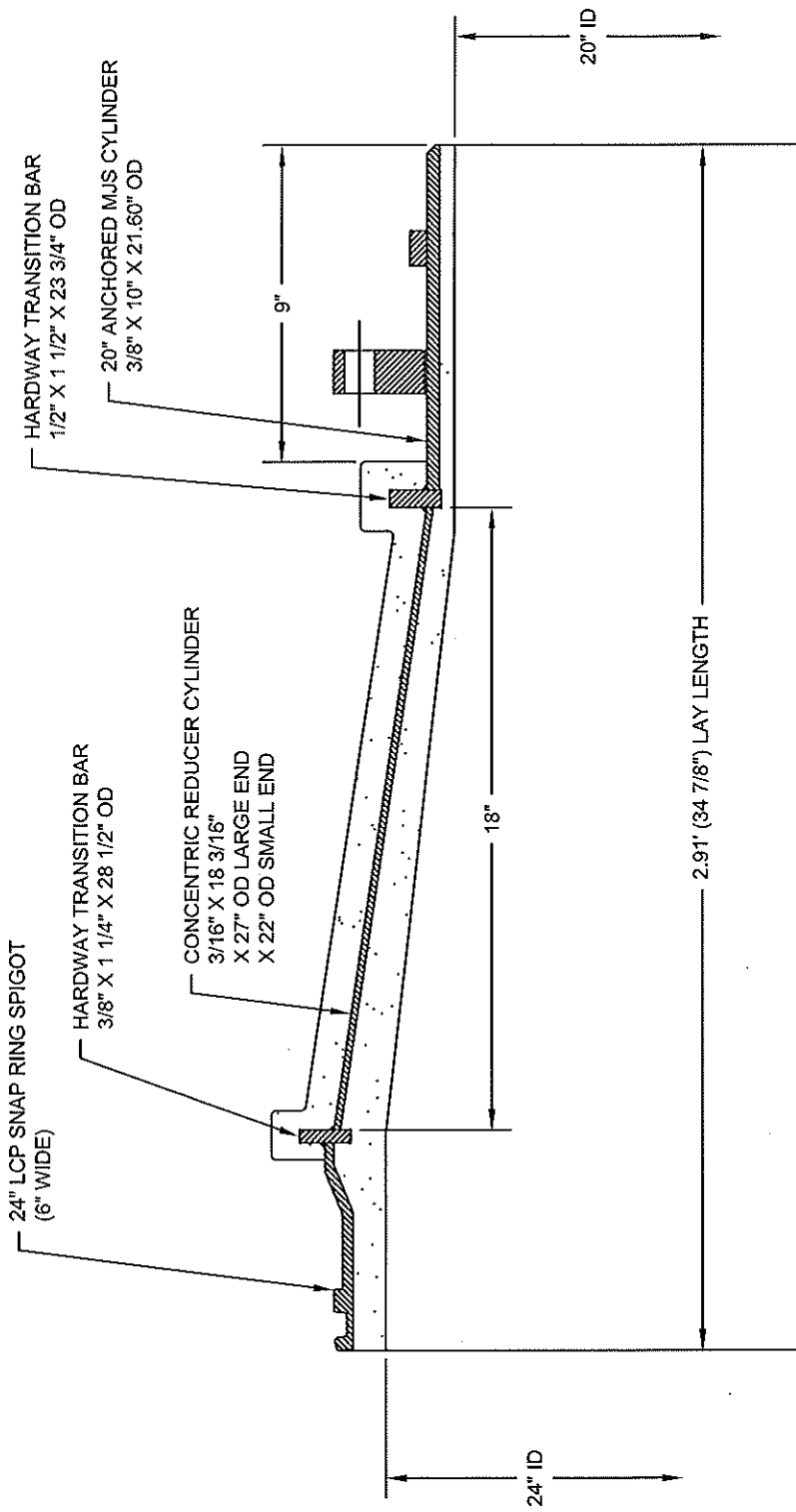


OAK CREEK, WISCONSIN  
 24" PCCP TRANSMISSION MAIN

24" MJB x 24" SRB X 24" SRB 45 DEGREE WYE

DRWN BY: KLB  
 APPR. BY:  
 DATE: 12/27/2012

DWG. NO.  
 120534 - DR17  
 REV. A 1/03/2013



**NOTES:**

1. APPLY REINFORCED MORTAR AS SHOWN.
2. ALL EXPOSED STEEL PAINTED WITH PROTECTIVE COATING.
3. M.J.S. NUTS, BOLTS AND GASKETS NOT SUPPLIED BY HANSON.

**F-7**

47919-A



OAK CREEK, WISCONSIN  
24" PCCP TRANSMISSION MAIN

24" SRS X 20" AMJS CONCENTRIC REDUCER

DRWN BY: KLB  
APPR. BY:  
DATE: 1/03/2013

DWG. NO.  
120534 - DR18  
REV.



January 3, 2013

BEVERLY BURETTA  
OAK CREEK WATERWORKS  
8640 SOUTH HOWELL  
OAK CREEK WI 53154

Project Number: W-2013-0001  
Date Received: 12/26/2012  
DNR Region: SER

### WATER MAIN EXTENSION APPROVAL

**Water system name:** Oak Creek Waterworks  
**Engineering Firm:** City of Oak Creek  
**Professional Engineer:** Ronald J. Pritzlaff  
**Location(s):** Transmission main on West Puetz Road from South Howell Avenue to South Liberty Lane

**Variance (s):**

1. Hydrant spacing greater than 600 feet shall be allowed throughout this project up to a maximum of 1,850 feet.
2. Valve spacing greater than 800 feet shall be allowed throughout this project up to a maximum of 2,200 feet.

**Condition(s) of approval:**

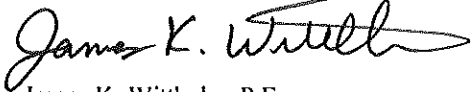
1. A preconstruction conference shall be held to ensure the understanding of, and compliance with, the approved plans and specifications, the proposed method of erosion control, the duties of the resident project representative, the disinfection and bacteriological sampling requirements of NR 810.09(4), Wis. Adm. Code and any special conditions listed below.

**Approval constraints:** The project was reviewed in accordance with s. 281.41, Wis. Stats. for compliance with Chapters NR 108, NR 810 and NR 811, Wis. Adm. Code and is hereby approved in accordance with s. 281.41, Wis. Stats. subject to the conditions listed above. This approval is valid for four years from the date of approval and is subject to the conditions listed above.

**Appeal rights:** If you believe that you have a right to challenge this decision, you should know that the Wisconsin Statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. Requests for contested case hearings must be made in accordance with ch. NR 2, Wis. Adm. Code. Filing a request for a contested case hearing does not extend the 30 day period for filing a petition for judicial review. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you must file your petition with the appropriate circuit court and serve the petition on the Department within 30 days after the decision is mailed. A petition for judicial review must name the Department of Natural Resources as the respondent.

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES

For the Secretary

A handwritten signature in cursive script that reads "James K. Witthuhn". The signature is written in black ink and is positioned above the typed name.

James K. Witthuhn, P.E.  
Public Water Supply Section  
Bureau of Drinking Water and Groundwater  
(608) 267-9659

cc: Steven Yttri, City of Oak Creek, 170 West Drexel Avenue, Oak Creek, WI 53154  
Ronald J. Pritzlaff, City of Oak Creek, 170 West Drexel Avenue, Oak Creek, WI 53154

TO CONSTRUCT, OPERATE and MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

s.66.0831, 84.08, 85.15, 86.07(2), 86.16, 182.017 and such other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address Oak Creek Water and Sewer Utility 170 West Drexel Avenue Oak Creek, WI 53154		2. Work Start Date 3/15/2013	3. Work Finish Date* 6/1/2013	6. Location Description (¼ section, section, town, range; provide plat map or location sketch) SE 1/4 Section 17, T 5 N, R 22 E	
9. Facility Type (Check all that apply): Size (Diameter, kV, pressure, # fibers, etc.) <input type="checkbox"/> Telecom: _____ <input type="checkbox"/> Electric: _____ <input type="checkbox"/> Gas/Oil: _____ <input checked="" type="checkbox"/> Water: 24" Transmission Main <input type="checkbox"/> San Sewer: _____ <input type="checkbox"/> _____: _____ <input type="checkbox"/> Transmission <input type="checkbox"/> Service: Std <input type="checkbox"/> Distribution <input type="checkbox"/> Service: Exp		4. Is the work due to a WisDOT highway project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7. Work Location (Check/list all that apply) <input type="checkbox"/> Town: _____ <input type="checkbox"/> Village: _____ <input checked="" type="checkbox"/> City: Oak Creek <input checked="" type="checkbox"/> County: Milwaukee	
10. Facility Orientation (Check all that apply) <input type="checkbox"/> Crossing R/W <input type="checkbox"/> Parallel R/W <input checked="" type="checkbox"/> Underground <input type="checkbox"/> Overhead <input type="checkbox"/> Structure attachment		5. Applicant Work Order (If any) None		8. Highway (Check all that apply) <input checked="" type="checkbox"/> WIS 38 <input type="checkbox"/> US _____ <input type="checkbox"/> Interstate _____ <input type="checkbox"/> _____	
11. Work Types (Check all that apply) <input checked="" type="checkbox"/> New construction <input type="checkbox"/> Improve/repair existing <input type="checkbox"/> Removal <input type="checkbox"/> Maintenance <input type="checkbox"/> Discontinued, left in place <input type="checkbox"/> Joint installation		12. Proposed Work Methods (Check all that apply) <input type="checkbox"/> Trench <input type="checkbox"/> Plow <input type="checkbox"/> Casing <input type="checkbox"/> Rock blasting <input type="checkbox"/> Open cut pavement  Bore: <input type="checkbox"/> Hydraulic (Auger/Jack) <input type="checkbox"/> Pneumatic (Mole) <input type="checkbox"/> Directional 1 (Manually tracked) <input type="checkbox"/> Directional 2 (Computer tracked) <input type="checkbox"/> Unknown (At this time)  Attach to poles/towers: <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Guys**  (Diameter) _____ (Name of existing owner) _____ (** Provide details for all guy wires on plan sheets)  Subsurface utility excavation: <input type="checkbox"/> Water jetting <input type="checkbox"/> Vacuum  Tree/vegetation control: <input type="checkbox"/> Cut and/or trim <input type="checkbox"/> Mow <input type="checkbox"/> Chemically treat		13. Work Zone Description (Check all that apply) <input type="checkbox"/> Full road closure: detour <input type="checkbox"/> Full road closure: temporary <input checked="" type="checkbox"/> Lane closure: without flagging <input type="checkbox"/> Lane closure: with flagging <input type="checkbox"/> Lane encroachment (2 feet or less) <input type="checkbox"/> Intersection/roundabout <input type="checkbox"/> Shoulder/parking lane closure <input type="checkbox"/> Off shoulder: within clear zone <input type="checkbox"/> In R/W: outside clear zone <input type="checkbox"/> Near R/W line: within clear zone <input type="checkbox"/> Near R/W line: outside clear zone <input type="checkbox"/> Not applicable	
				15. Will any appurtenances be installed with the facility? (If yes, provide a description and/or specification of each item with this application.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				16. Trans 401 project designation? (For all Major projects, provide a formal erosion control plan with this application. See HMM 09-15-55) <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Major	
				17. Are any environmental permits, certifications or approvals required from other regulatory agencies? (If yes, provide a copy of each item or proof of agency coordination with this application.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				14. Is the proposed facility near a survey monument? (See HMM 09-15-35) <input type="checkbox"/> Yes (Call: 1-866-568-2852 or e-mail: <a href="mailto:geodetic@dot.wi.gov">geodetic@dot.wi.gov</a> ) <input checked="" type="checkbox"/> No	

\* NOTE: If the work described is not completed by the "Work Finish Date" specified, this permit is null and void, and the work shall not be completed unless authorized through a subsequent permit or an approved time extension. **ANY PERMIT ISSUED IS REVOCABLE.**

18. Utility Person Responsible for Construction Ron Pritzlaff (Area Code) Telephone Number (414)570-8210	19. Utility or Project 24/7 Emergency Contact Ron Pritzlaff (Area Code) Telephone Number (414)570-8210
20. Is the utility a member of Diggers Hotline? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, provide line-locate number _____	It is understood and agreed that approval is subject to applicant's full compliance with the pertinent statutes, as well as any rules and regulations of other jurisdictional agencies, which may be more restrictive, and with the Wisconsin Department of Transportation's Utility Accommodation Policy (UAP), current edition. <a href="http://www.dot.wisconsin.gov/business/rules/property-uap.htm">http://www.dot.wisconsin.gov/business/rules/property-uap.htm</a>
21. Provide additional project work details, if needed (Continue on back or include separate page) This project involves the installation of 24" PCCP Transmission Watermain on Puetz Road from Howel Avenue (STH 38) west to Liberty Lane. No watermain will be installed on Howell Avenue.	<i>Ronald J. Pritzlaff</i> 1/3/2013 (Signature of Authorized Representative – If filled via computer, Brush Script font) (Date)
22. If not employed by applicant, authorized representative's company name and address	Utility Engineer (Title and/or print name) (414)570-8210 rpritzlaff@water.oak-creek.wi.us (Authorized Representative Telephone Number) (Authorized Representative E-mail Address)



This permit does not transfer any land; nor give, grant or convey any land right, right in land, nor easement in WisDOT right-of-way. It is not assignable or transferrable. If ownership in a utility facility changes, WisDOT may void and supersede a permit and reissue it to the new owner upon request and with sufficient proof of ownership.

↓ For Wisconsin DOT Use Only ↓

<input type="checkbox"/> THE UTILITY SHALL NOTIFY WisDOT 3 DAYS BEFORE STARTING WORK AT: Region contact, title, office address, telephone number, and e-mail address Ryan Schnurer, Utility Permit Engineer WisDOT Southeast Region 141 NW Barstow Street Waukesha, WI 53187 262-548-5955 dotdtsdseutilitypermits@dot.wi.gov	<input checked="" type="checkbox"/> REVIEW ALL SUPPLEMENTAL PERMIT PROVISIONS <input checked="" type="checkbox"/> REVISIONS MADE to DRAWINGS or OTHER PAGES <input checked="" type="checkbox"/> Lane Closure System notification required: <a href="#">HMM 09-15-60</a> <input type="checkbox"/> Insurance or performance bond required <input type="checkbox"/> Joint installation: See permit(s) # _____ <input type="checkbox"/> Private utility (Non-public ownership and/or use) <input type="checkbox"/> Expedited Service Connection Permit <input type="checkbox"/> This permit voids & supersedes # _____ issued: _____ <input type="checkbox"/>	Date Application Received 12/17/2012 Date Application Completed 1/3/2013 Date Application Denied Permit Issuance Date 1/3/2013 Permit Extension Date Permit Number 40U-130-12
	<i>Ryan Schnurer</i> (WisDOT Authorized Representative Signature – If filled via computer, Brush Script font)	



Use this section to provide information that does not fit on front page

The project will be completed in two phases in order to allow for constructability at the critical area. The critical area is the connection just west of Howell Avenue followed by approximately 100' of pipe installation crossing the westbound lanes of Puetz Road at the west approach to the intersection. Phase 1 will close the westbound left thru lane on Puetz Road between Howell Avenue and Liberty Lane and the Eastbound to northbound dedicated left turn lane on Puetz Road at the west approach to the intersection. Phase 1 will last approximately 10 working days. Phase 2 will close the westbound right thru lane between Howell Avenue and Liberty Lane. Phase 2 will last approximately 48 calendar Days. Both Phases require that the dual left turn lane on Howell Avenue for northbound to west bound traffic on Puetz Road be reduced from two lanes to one lane to facilitate one-lane of westbound traffic on Puetz Road. A location map and plan set have been attached for your review.

## INDEMNIFICATION

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes, harmless from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person. Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.

Notwithstanding the foregoing, a private contractor or subcontractor with the State under Chapter 84 Wisconsin Statutes, that fails to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2007-2008), remains subject to the payment to the Applicant of the actual cost of repair of intentional or negligent damage by the contractor or subcontractor to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, and remains subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the contractor or subcontractor.

Notwithstanding the foregoing, if the State, or its officers, employees and agents, fail to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2007-2008), the State or its officers, employees and agents, remain subject to the payment to the Applicant of the actual cost of repair of willful and intentional damage by the State, or its officers, employees and agents, to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, and remain subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the State, its officers, employees and agents.

No indemnification of private contractors or subcontractors with the State under Chapter 84 Wisconsin Statutes, shall apply in the event of willful and intentional damage by such private contractors or subcontractors to the property, lines and facilities of the Applicant located on the highway right-of-way pursuant to this permit or any other permit issued by the State for the location of property, lines or facilities on highway right-of-way.



**Start Work Notice:**

1) Prior to the start of utility construction, the utility operator **MUST** forward a copy of the attached utility start work notice to the Wisconsin Department of Transportation (WisDOT) regional utility permit coordinator. Failure to do so will result in revocation of this permit.



**Permit Requirements:**

2) There shall be no deviations from the approved construction plans covered under this permit without additional written authorization from the WisDOT utility permit coordinator.

3) A complete copy of the permit WisDOT issues a utility for its proposed work shall be in the possession of the utility's work force, consultant, contractor or subcontractor at all times when work is being performed within the right-of-way (RW). This includes a copy of WisDOT's approval for a service connection under an Expedited Service Connection Permit (ESCP). Electronic copies are acceptable.

4) Failure to maintain a permit on the work site shall cause this permit to become null and void. A subsequent permit will be required to complete the previously permitted work.

5) This permit is valid only for utility construction on WisDOT controlled highway right-of-way. Permits from other federal, state, county and local agencies may be required.

6) Utility construction shall not interfere with any WisDOT construction project or maintenance operation.



**Work Zone Traffic Control:**

7) Work Zone Traffic Control (WZTC) shall be in accordance with the Wisconsin Manual of Uniform Traffic Control Devices (WMUTCD) chapter VI.

8) Traffic control shall be maintained throughout construction and shall be altered at anytime upon the request of WisDOT, the county or local highway department or any law enforcement agency.

9) Flaggers shall be used whenever conditions warrant.

10) At the end of each work day, construction signage shall be knocked down or removed. Turning sign faces away from traffic is no longer allowed.



**Wisconsin Lane Closure System Notification:**

11) Lane, shoulder, ramp closures or encroachments on WIS 38 require lane closure notification to the southeast region traffic engineer a minimum of three working days in advance. All freeway closures require 14 calendar days notice.

12) The utility or their contractor shall set up an account and request lane closures at the following link:  
<http://transportal.cee.wisc.edu/closures/>



**WisDOT Holiday Shutdowns:**

13) No utility work with the exception of emergency work shall be performed during the following holidays. All work shall stop prior to and resume after the holidays on the following dates and times. All unnecessary traffic control shall be knocked down or moved outside the clear zone:

Memorial Day-May 24, 2013-12pm through May 28, 2013-6am  
Independence Day-July 3, 2013-12pm through July 5, 2013-6am  
Labor Day-August 30, 2013-12pm through September 3, 2013-6am



**Existing Pavements & Right-of-Way:**

14) Existing inlets, drainage structures, drain tiles or other drainage facilities damaged during construction



shall be repaired or replaced in kind. The contractor shall notify WisDOT of any damaged facilities.

15) Equipment and material shall be moved outside the clear zone at the end of each work day.

16) Open excavations shall be plated or protected by other means during and at the end of each work day to ensure public safety. Energy absorbing terminals (EATS) or other crash protection devices shall be used with concrete barrier walls.

17) Existing highway pavements shall be kept and swept clean of mud and debris from construction and trucking operations during and at the end of each work day.



**Epoxy Pavement Markings:**

18) Epoxy pavement markings removed shall be replaced in kind with an epoxy based pavement marking paint along with reflective bead materials.

Attachment 1: Start and Work Completion Notice



# Utility Permit Start Work Notice

Provide all information and e-mail or fax to the utility permit coordinator or other region contact listed on the approved permit form **a minimum three working days** prior to the start of the work. When restoration is complete and ready for inspection, e-mail or fax to the same contact.

WisDOT Utility Permit Number:

**SOUTHWEST REGION**

Mark Goggin  
[mark.goggin@dot.wi.gov](mailto:mark.goggin@dot.wi.gov)  
Fax: 608-243-3380 Madison office  
608-789-7896 La Crosse office

Utility Company:

Utility Job Number:

**SOUTHEAST REGION**

Ryan Schnurer  
[dotdtsdseutilitypermits@dot.wi.gov](mailto:dotdtsdseutilitypermits@dot.wi.gov)  
Fax: 262-548-6891

WisDOT Project Number:

Project Location:

**NORTHEAST REGION**

Ray Drake  
[ray.drake@dot.wi.gov](mailto:ray.drake@dot.wi.gov)  
Fax: 920-492-0144  
NE Utility Unit General E-Mail:  
[dotdtsdneutilitycoordination@dot.wi.gov](mailto:dotdtsdneutilitycoordination@dot.wi.gov)

Utility Contractor Contact Name and 24-Hour Number:

**NORTH CENTRAL REGION**

Keith Rutkowski – Wis Rapids office  
[keith.rutkowski@dot.wi.gov](mailto:keith.rutkowski@dot.wi.gov)  
Fax: 715-421-7300

Traffic Control Provider and 24-Hour Number

Terry Catlin – Rhinelander office  
[terry.catlin@dot.wi.gov](mailto:terry.catlin@dot.wi.gov)  
Fax: 715-365-5780

Construction Start Date:

**NORTHWEST REGION**

Heather Dresel  
[HeatherL.Dresel@dot.wi.gov](mailto:HeatherL.Dresel@dot.wi.gov)  
Fax: 715-836-2807 Eau Claire office

Construction Completion Date:

## Completion Notice

Restoration is complete and ready for inspection. File notices within **10 calendar days** of restoration completion. Restore within **two weeks** from completion of utility construction.

Restoration Completion Date:

**ISSUE DATE:** 12/17/2012

**PROJECT:**

PUETZ ROAD 24" TRANSMISSION MAIN  
OAK CREEK CITY, MILWAUKEE COUNTY, WI  
Determination No. 201202629 [Owner Project No. 12102]

**PROJECT OWNER:**

RON PRITZLAFF, UTILITY ENGINEER  
OAK CREEK WATER AND SEWER UTILITY  
170 WEST DREXEL AVENUE  
OAK CREEK, WI 53154

**REQUESTER:**

RON PRITZLAFF, UTILITY ENGINEER  
OAK CREEK WATER AND SEWER UTILITY  
170 WEST DREXEL AVENUE  
OAK CREEK, WI 53154

**ADDITIONAL CONTACT:**

RON PRITZLAFF, UTILITY ENGINEER  
OAK CREEK WATER AND SEWER UTILITY  
170 WEST DREXEL AVENUE  
OAK CREEK, WI 53154

**NOTE:** The Requester must provide a copy of this Project Determination and enclosures to the Project Owner and Additional Contact.

The department received an application for prevailing wage rate determination for the above-captioned project. The department conducted a survey to determine the prevailing wage rate for the trade(s) or occupation(s) needed to complete the project. The survey's findings appear in the attached project determination.

If you believe that the wage rate for any trade or occupation does not accurately reflect the prevailing wage rate in the city, village or town where the project is located, you may ask the department to conduct an administrative review of such wage rate. You must submit this request in writing within 30 days from the date indicated above. Additionally, your request must include wage rate information from at least three similar projects in the city, village or town where the proposed project is located and on which some work has been performed by the contested trade(s) during the current survey period and was previously considered by the department in issuing the attached determination. See DWD 290.10 of the Wisconsin Administrative Code and either s. 66.0903(3)(br), s. 66.0904(4)(e), or s. 103.49(3)(c), Stats., for a complete explanation of the administrative review process.

Enclosures

It is hereby ordered that the prevailing wage rates set forth in the attached project determination shall only be applicable to the above referenced project. This order is a **FINAL ORDER** of the department unless a timely request for an administrative review is filed with the department.

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

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

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## PREVAILING WAGE RATE DETERMINATION

Issued by the State of Wisconsin  
Department of Workforce Development  
Pursuant to s. 66.0903, Wis. Stats.  
Issued On: 12/17/2012

**DETERMINATION NUMBER:** 201202629

**EXPIRATION DATE:** Prime Contracts MUST Be Awarded or Negotiated On Or Before 6/15/2013. If NOT, You MUST Reapply.

**PROJECT NAME:** PUETZ ROAD 24" TRANSMISSION MAIN  
PROJECT NO: 12102

**PROJECT LOCATION:** OAK CREEK CITY, MILWAUKEE COUNTY, WI

**CONTRACTING AGENCY:** OAK CREEK WATER AND SEWER UTILITY  
**LOCAL GOVTL UNIT:** OAK CREEK WATER AND SEWER UTILITY

<b>CLASSIFICATION:</b>	Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: <a href="http://dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm">dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm</a> .
<b>OVERTIME:</b>	<p>Time and one-half must be paid for all hours worked:</p> <ul style="list-style-type: none"><li>- over 10 hours per day on prevailing wage projects</li><li>- over 40 hours per calendar week</li><li>- Saturday and Sunday</li><li>- on all of the following holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25;</li><li>- The day before if January 1, July 4 or December 25 falls on a Saturday;</li><li>- The day following if January 1, July 4 or December 25 falls on a Sunday.</li></ul> <p>Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime.</p> <p>A DOT Premium (discussed below) may supersede this time and one-half requirement.</p>
<b>FUTURE INCREASE:</b>	When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.
<b>PREMIUM PAY:</b>	If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.
<b>DOT PREMIUM:</b>	This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.
<b>APPRENTICES:</b>	Pay apprentices a percentage of the applicable journey person's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.
<b>SUBJOURNEY:</b>	Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project**. A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

**The following statutory provisions apply to local governmental unit projects of public works and are set forth below pursuant to the requirements of s. 66.0903(8), Stats.**

**s. 66.0903 (1) (f) & s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR"** for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

**s. 66.0903 (10) RECORDS; INSPECTION; ENFORCEMENT.**

(a) Each contractor, subcontractor, or contractor's or subcontractor's agent performing work on a project of public works that is subject to this section shall keep full and accurate records clearly indicating the name and trade or occupation of every person performing the work described in sub. (4) and an accurate record of the number of hours worked by each of those persons and the actual wages paid for the hours worked.

**s. 66.0903 (11) LIABILITY AND PENALTIES.**

(a) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided under subd. 2., 3., whichever is applicable.

2. If the department determines upon inspection under sub. (10) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.

3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.

5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

<b>BUILDING OR HEAVY CONSTRUCTION</b>
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Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

<b>SKILLED TRADES</b>
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<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
101	Acoustic Ceiling Tile Installer	33.43	19.31	52.74
102	Boilermaker	31.09	21.87	52.96
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$.50 on 6/01/2012; Add \$1.45/hr on 6/01/2013 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.58	16.37	51.95
104	Cabinet Installer	29.06	15.16	44.22
105	Carpenter Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.43	19.31	52.74
106	Carpet Layer or Soft Floor Coverer	31.68	18.55	50.23
107	Cement Finisher	30.87	16.33	47.20
108	Drywall Taper or Finisher Future Increase(s): Add \$2.20/hr on 6/1/2012	28.97	17.74	46.71
109	Electrician Future Increase(s): Add \$1.40/hr on 6/1/2012. Add \$1.60/hr on 6/1/2013. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	31.54	20.95	52.49
110	Elevator Constructor	43.79	25.48	69.27
111	Fence Erector	27.00	0.00	27.00
112	Fire Sprinkler Fitter	36.82	19.03	55.85
113	Glazier	32.25	16.20	48.45
114	Heat or Frost Insulator	33.28	22.45	55.73



<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
115	Insulator (Batt or Blown)	23.62	11.55	35.17
116	Ironworker	31.31	21.54	52.85
117	Lather	31.68	18.41	50.09
118	Line Constructor (Electrical)	35.97	18.08	54.05
119	Marble Finisher	31.16	16.27	47.43
120	Marble Mason	35.53	15.92	51.45
121	Metal Building Erector	21.05	7.82	28.87
122	Millwright	28.30	23.29	51.59
123	Overhead Door Installer	26.53	0.00	26.53
124	Painter Future Increase(s): Add \$2.20/hr on 6/1/2012. Premium Increase(s): Add \$.20/hr for paperhanging; Add \$.35/hr for bridge, iron and drywall; Add \$.75/hr for spraying and sandblasting; Add \$.60/hr for EIFS work; Add \$1.00/hr for lead based paint removal.	28.97	17.74	46.71
125	Pavement Marking Operator	26.00	0.00	26.00
126	Piledriver	28.11	23.94	52.05
127	Pipeline Fuser or Welder (Gas or Utility)	30.52	18.84	49.36
129	Plasterer	20.13	1.03	21.16
130	Plumber	36.97	17.47	54.44
132	Refrigeration Mechanic	37.21	19.04	56.25
133	Roofer or Waterproofor Future Increase(s): Add \$.50/hr. effective 06/01/2012	29.40	15.05	44.45
134	Sheet Metal Worker	37.20	16.37	53.57
135	Steamfitter	38.26	19.49	57.75
137	Teledata Technician or Installer Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	24.65	15.67	40.32
138	Temperature Control Installer	29.63	19.17	48.80
139	Terrazzo Finisher	18.00	5.35	23.35
140	Terrazzo Mechanic	31.16	16.27	47.43

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
141	Tile Finisher	23.76	16.05	39.81
142	Tile Setter	29.95	15.64	45.59
143	Tuckpointer, Caulker or Cleaner Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.35	15.92	50.27
144	Underwater Diver (Except on Great Lakes)	36.20	18.81	55.01
146	Well Driller or Pump Installer	25.32	15.30	40.62
147	Siding Installer	36.60	16.37	52.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	27.42	15.10	42.52
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	28.78	15.16	43.94
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	17.80	9.00	26.80
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	23.38	12.48	35.86
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.30	10.97	32.27

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	32.32	16.75	49.07
203	Three or More Axle Future Increase(s): Add \$1.75/hr on 6/1/2012; Add \$1.85/hr on 6/1/2013. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	22.50	16.19	38.69
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	33.32	17.60	50.92
205	Pavement Marking Vehicle	19.25	10.84	30.09
207	Truck Mechanic	24.91	15.35	40.26

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Premium Increase(s): Add \$.11 for mortar mixer, fork lift operator, air and electric equipment and power buggy operators; Add \$.22 for jackhammer operator, certified welder, gunite machineman.	28.82	15.61	44.43
302	Asbestos Abatement Worker	21.58	17.83	39.41
303	Landscaper	12.50	2.20	14.70
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	19.14	15.53	34.67
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased) Premium Increase(s): DOT PREMIUMS: Pay two times the hourly basic rate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	17.24	15.00	32.24
314	Railroad Track Laborer	17.00	1.06	18.06

**HEAVY EQUIPMENT OPERATORS  
SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfgr's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket).	32.32	18.18	50.50
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under).	33.32	17.60	50.92

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	32.32	17.59	49.91
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	36.20	18.81	55.01
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Premium Increase(s): Add \$.50/hr for friction crane, lattice boom or crane certification (CCO).	37.45	19.45	56.90
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	26.80	18.52	45.32
507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	27.75	19.15	46.90

**HEAVY EQUIPMENT OPERATORS  
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
508	Boring Machine (Directional); Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Premium Increase(s): Crane Operators with CCO certification add \$.50/hr. Cranes with boom length over 200 ft. not exceeding 300 ft. OR lifting capacity over 200 ton not exceeding 300 ton add \$.50/hr. Over 300 ton OR 300 ft. add \$.01/hr. per foot OR ton whichever is greater.	39.16	19.10	58.26

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over). Premium Increase(s): Crane Operators with CCO certification add \$.50/hr.	38.66	19.10	57.76
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type). Premium Increase(s): Crane Operators with CCO certification add \$.50/hr.	38.16	19.10	57.26
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Premium Increase(s): Crane Operators with CCO certification add \$.50/hr.	38.16	19.10	57.26
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	37.47	19.10	56.57

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.44	19.10	49.54
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$2/hr. on 1/1/2013.	34.89	19.68	54.57
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment).	31.26	17.40	48.66
516	Fiber Optic Cable Equipment	25.74	15.85	41.59

<b>SEWER, WATER OR TUNNEL CONSTRUCTION</b>
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Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

<b>SKILLED TRADES</b>
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<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	35.53	15.92	51.45
105	Carpenter Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.43	19.31	52.74
107	Cement Finisher Future Increase(s): Add \$1.86 on 6/1/12; Add \$1.87 on 6/1/13; Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	27.14	19.22	46.36
109	Electrician Future Increase(s): Add \$1.40/hr on 6/1/2012. Add \$1.60/hr on 6/1/2013. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	31.54	20.95	52.49
111	Fence Erector	27.00	0.00	27.00
116	Ironworker Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	31.31	22.22	53.53
118	Line Constructor (Electrical)	35.97	18.08	54.05
125	Pavement Marking Operator	26.00	0.00	26.00
126	Piledriver	28.11	23.94	52.05
130	Plumber	36.18	16.86	53.04
135	Steamfitter	35.81	19.04	54.85
137	Teledata Technician or Installer	24.65	15.17	39.82

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
143	Tuckpointer, Caulker or Cleaner	34.30	15.47	49.77
144	Underwater Diver (Except on Great Lakes)	36.20	18.81	55.01
146	Well Driller or Pump Installer	24.22	14.80	39.02
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	27.42	15.10	42.52
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	28.78	15.16	43.94
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	17.80	9.00	26.80
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	23.38	12.48	35.86
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.30	10.97	32.27

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	23.00	8.64	31.64
203	Three or More Axle	17.54	13.41	30.95
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.75/hr on 6/1/2012; Add \$1.85/hr on 6/1/2013. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	22.50	16.19	38.69
205	Pavement Marking Vehicle	19.25	10.84	30.09
207	Truck Mechanic	17.54	13.41	30.95

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Future Increase(s): Add \$1.73/hr on 6/4/2012. Premium Increase(s): Add \$1.92 for bottomman; Add \$2.03 for concrete manhole builder, bracer, jointman, or pipelayer; Add \$4.83 for blaster. Add \$2.00 for all tunnel work under 15 lbs. compressed air; Add \$2.00 for 0-30 lbs. compressed air; Add \$3.00 for over 30 lbs. compressed air.	27.72	15.61	43.33



<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
303	Landscaper	12.50	2.20	14.70
304	Flagperson or Traffic Control Person	22.50	12.90	35.40
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.09	14.40	31.49
314	Railroad Track Laborer	17.00	1.06	18.06

**HEAVY EQUIPMENT OPERATORS  
SEWER, WATER OR TUNNEL WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Master Mechanic; Pile Driver. Premium Increase(s): Crane Operators with CCO certification add \$.50/hr. Cranes with boom length over 200 ft. not exceeding 300 ft. OR lifting capacity over 200 ton not exceeding 300 ton add \$.50/hr. Over 300 ton OR 300 ft. add \$.01/hr. per foot OR ton whichever is greater.	39.16	19.10	58.26
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Dredge (NOT Performing Work on the Great Lakes); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type). Future Increase(s): Add \$2.05/hr on 6/4/2012. Premium Increase(s): Add \$.25/hr for operating tower crane.	33.91	18.55	52.46

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add \$2.05/hr on 6/4/2012. Premium Increase(s): Add \$.25/hr for operating tower crane.	32.96	18.55	51.51
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	30.89	18.12	49.01
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$2.05/hr on 6/4/2012. Premium Increase(s): Add \$.25/hr for operating tower crane.	30.51	18.55	49.06
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	29.44	18.10	47.54
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	36.20	18.81	55.01

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b><u>TOTAL</u></b>
<b><u>CODE</u></b>	<b><u>TRADE OR OCCUPATION</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	36.20	18.81	55.01
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	26.80	18.52	45.32
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	26.80	18.52	45.32

<b>LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION</b>
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Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

<b>SKILLED TRADES</b>
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<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	35.53	15.92	51.45
105	Carpenter	29.06	15.16	44.22
107	Cement Finisher	27.57	16.33	43.90
109	Electrician Future Increase(s): Add \$.50/hr. effective 06/04/2012. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	28.74	17.86	46.60
111	Fence Erector	27.00	0.00	27.00
116	Ironworker	31.31	21.54	52.85
118	Line Constructor (Electrical)	35.97	18.08	54.05
124	Painter	28.47	16.74	45.21
125	Pavement Marking Operator	26.00	0.00	26.00
126	Piledriver	28.11	23.94	52.05
133	Rofer or Waterproofer	28.85	14.60	43.45
137	Teledata Technician or Installer	24.65	15.17	39.82
143	Tuckpointer, Caulker or Cleaner	34.30	15.47	49.77
144	Underwater Diver (Except on Great Lakes)	36.20	18.81	55.01
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.42	12.90	48.32
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	28.78	14.42	43.20
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.18	13.07	38.25
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	23.38	12.48	35.86
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.30	10.97	32.27

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	15.00	0.00	15.00
203	Three or More Axle	20.00	6.00	26.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1/hr on 6/3/2012; Add \$1/hr on 6/2/2013.	31.89	17.98	49.87
205	Pavement Marking Vehicle	19.25	10.84	30.09
206	Shadow or Pilot Vehicle	15.00	0.00	15.00
207	Truck Mechanic	20.00	6.00	26.00

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer	21.73	17.04	38.77
303	Landscaper	22.96	15.37	38.33
304	Flagperson or Traffic Control Person Future Increase(s): Add \$1.60/hr on 6/1/2012; Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	23.55	13.45	37.00
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.09	14.40	31.49
314	Railroad Track Laborer	17.00	1.06	18.06

**HEAVY EQUIPMENT OPERATORS  
CONCRETE PAVEMENT OR BRIDGE WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
541	<p>Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &amp;/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.</p> <p>Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p> <p>Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day &amp; Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).</p>	34.22	18.90	53.12
542	<p>Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. &amp; Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &amp;/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver.</p> <p>Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p> <p>Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day &amp; Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).</p>	33.72	18.90	52.62

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
543	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.	31.89	18.22	50.11
544	Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	33.22	18.90	52.12

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
545	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.	30.42	17.58	48.00
546	Fiber Optic Cable Equipment.	24.39	15.45	39.84
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	36.20	18.81	55.01
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	36.20	18.81	55.01
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	26.80	18.52	45.32
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	26.80	18.52	45.32

**HEAVY EQUIPMENT OPERATORS  
ASPHALT PAVEMENT OR OTHER WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
551	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	38.06	18.10	56.16



**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
552	<p>Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. &amp; Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &amp;/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver.</p> <p>Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p> <p>Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day &amp; Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).</p>	33.72	18.90	52.62
553	<p>Air, Track, Rotary or Percussion Drilling Machine &amp;/or Hammers, Blaster; Asphalt Heater, Planer &amp; Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. &amp; Under); Bituminous (Asphalt) Plant &amp; Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb &amp; Gutter Machine; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches &amp; A-Frames.</p>	31.52	17.50	49.02

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
554	Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	32.67	18.55	51.22
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$2/hr on 6/1/12; Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	32.67	18.55	51.22
556	Fiber Optic Cable Equipment.	24.39	15.45	39.84

\*\*\*\*\* END OF RATES \*\*\*\*\*

Department of Workforce Development  
 Equal Rights Division  
 P.O. Box 8928  
 Madison, WI 53708-8928  
 Telephone: (608) 266-6860  
 Fax: (608) 267-4592  
 TTY: (608) 264-8752



Scott Walker, Governor  
 Reginald J. Newson, Secretary  
 Joe Handrick, Division Administrator

The documents following the Prevailing Wage Rate Determination consist of 18 pages of various forms/documents that will be used throughout the completion of the project. The chart below lists the form number, form/document name, the party who uses the document, and the document's number of pages. If you have any questions regarding these forms please call the Prevailing Wage Office at (608)266-6861.

ERD Form Number	Form Name	Party Who Uses the Form	Pages
16056	Post the White Sheet	Contracting agency	1
16770	Substance Abuse Prevention on Public Works and Publicly Funded Projects, §103.503, Wis. Stats.	All contractors working on public works and publicly funded private construction projects	1
10908	Consolidated List of Debarred Contractors	Any party contracting someone to complete work on a prevailing wage project	2
7777	Disclosure of Ownership	Contractors that meet the criteria set out in (3)(A)&(B) of the form	1
5724	Prime Contractor Affidavit of Compliance	Prime contractor files with contracting agency upon completion of the work before receiving final payment	2
10584	Agent or Subcontractor Affidavit of Compliance	Subcontractors file with their awarding contractor upon completion of their work on the project before receiving final payment	2
10880	Request to Employ Subjourneyperson	Contractors wishing to employ a subjourneyperson(s)	1
	Prevailing Wage - Public Entity Project Owners	Explanation of project owner responsibilities	2
	Prevailing Wage – Contractors	Explanation of contractor responsibilities	2
	Summary of Prevailing Wage Law Changes Effective July 1, 2011	Information for public entity or any other interested party	4

09/01/12

## **POST THE WHITE SHEET**

As the public entity receiving this prevailing wage rate determination, YOU ARE REQUIRED by law to post the prevailing wage rate determination (i.e., white sheet) in at least one conspicuous and easily accessible place on the project site that is available to all construction workers. The white sheet must remain posted from the onset of the project until all construction labor on the project has been completed.

[See, Wis. Admin. Code §DWD 290.12(1)]

Posting the white sheet inside the general contractor's trailer does not meet this requirement. That placement is not available/accessible to all workers and is not a location over which you have control.

If you have questions about posting, please call (608)266-6861 and ask for prevailing wage intake.

## Disclaimer

**Employers performing work on public works and publicly funded private construction projects in Wisconsin are required to have a written substance abuse testing program in place. The provisions of this requirement are contained in Sec. 103.503, Wis. Stats. The Department of Workforce Development is neither responsible for enforcement of this law nor authorized to answer questions concerning its provisions. For legal advice on complying with Sec. 103.503, Wis. Stats., you may wish to consult with a private attorney.**

### **103.503 Substance abuse prevention on public works and publicly funded projects. (1) DEFINITIONS.** In this section:

(a) "Accident" means an incident caused, contributed to, or otherwise involving an employee that resulted or could have resulted in death, personal injury, or property damage and that occurred while the employee was performing the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project.

(b) "Alcohol" has the meaning given in s. 340.01 (1q).

(c) "Contracting agency" means a local governmental unit, as defined in s. 66.0903 (1) (d), a state agency, as defined in s. 103.49 (1) (f), or an owner or developer under s. 66.0904 that has contracted for the performance of work on a project.

(d) "Drug" means any controlled substance, as defined in s. 961.01 (4), or controlled substance analog, as defined in s. 961.01 (4m), for which testing is required by an employer under its substance abuse prevention program under this section.

(e) "Employee" means a laborer, worker, mechanic, or truck driver who performs the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project.

(f) "Employer" means a contractor, subcontractor, or agent of a contractor or subcontractor that performs work on a project.

(g) "Project" mean a project of public works that is subject to s. 66.0903 or 103.49 or a publicly funded private construction project that is subject to s. 66.0904.

(2) **SUBSTANCE ABUSE PROHIBITED.** No employee may use, possess, attempt to possess, distribute, deliver, or be under the influence of a drug, or use or be under the influence of alcohol, while performing the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project. An employee is considered to be under the influence of alcohol for purposes of this subsection if he or she has an alcohol concentration that is equal to or greater than the amount specified in s. 885.235 (1g) (d).

(3) **SUBSTANCE ABUSE PREVENTION PROGRAMS REQUIRED.** (a) Before an employer may commence work on a project, the employer shall have in place a written program for the prevention of substance abuse among its employees. At a minimum, the program shall include all of the following:

1. A prohibition against the actions or conditions specified in sub. (2).

2. A requirement that employees performing the work described in s. 66.0903 (4), 66.0904 (3), or 103.49 (2m) on a project submit to random, reasonable suspicion, and post-accident drug and alcohol testing and to drug and alcohol testing before commencing work on a project, except that testing of an employee before commencing work on a project is not required if the employee has been participating in a random testing program during the 90 days preceding the date on which the employee commenced work on the project.

3. A procedure for notifying an employee who violates sub. (2), who tests positive for the presence of a drug in his or her system, or who refuses to submit to drug or alcohol testing as required under the program that the employee may not perform work on a project until he or she meets the conditions specified in sub. (4) (b) 1. and 2.

(b) Each employer shall be responsible for the cost of developing, implementing, and enforcing its substance abuse prevention program, including the cost of drug and alcohol testing of its employees under the program. The contracting agency is not responsible for that cost, for the cost of any medical review of a test result, or for any rehabilitation provided to an employee.

(4) **EMPLOYEE ACCESS TO PROJECT.** (a) No employer may permit an employee who violates sub. (2), who tests positive for the presence of a drug in his or her system, or who refuses to submit to drug or alcohol testing as required under the employer's substance abuse prevention program under sub. (3) to perform work on a project until he or she meets the conditions specified in par. (b) 1. and 2. An employer shall immediately remove an employee from work on a project if any of the following occurs:

1. The employee violates sub. (2), tests positive for the presence of a drug in his or her system, or refuses to submit to drug or alcohol testing as required under the employer's substance abuse prevention program.

2. An officer or employee of the contracting agency has a reasonable suspicion that the employee is in violation of sub. (2) and requests the employer to immediately remove the employee from work on the project.

(b) An employee who is barred or removed from work on a project under par. (a) may commence or return to work on the project upon his or her employer providing to the contracting agency documentation showing all of the following:

1. That the employee has tested negative for the presence of drugs in his or her system and is not under the influence of alcohol as described in sub. (2).

2. That the employee has been approved to commence or return to work on the project in accordance with the employer's substance abuse prevention program.

(c) Testing for the presence of drugs or alcohol in an employee's system and the handling of test specimens shall be conducted in accordance with guidelines for laboratory testing procedures and chain-of-custody procedures established by the substance abuse and mental health services administration of the federal department of health and human services.

(5) **LOCAL ORDINANCES; STRICT CONFORMITY REQUIRED.** A local governmental unit, as defined in s. 66.0903 (1) (d), may enact an ordinance regulating the conduct regulated under this section only if the ordinance strictly conforms to this section.

History: 2005 a. 181; 2009 a. 28.

Consolidated List of Debarred Contractors  
Prepared and Issued By  
State of Wisconsin  
Department of Workforce Development

September 1, 2012

This list has been prepared in accordance with the provisions of s. 66.0903(12), s. 66.0904(10) and s. 103.49(7), Stats. and Chapter DWD 294 of the Wisconsin Administrative Code. All contractors on this list were found to have committed a "debarable offense" related to certain labor standard provisions determined or established for a state or local public works project or publicly funded private construction project. No state agency, local governmental unit or owner or developer may knowingly solicit bids from, negotiate with or award any contracts to or approve or allow any subcontracts with a debarred contractor, including all divisions, affiliates or other organizational elements of such contractor that are engaged in construction business activities, until the debarment is terminated. The name of each debarred contractor must remain on this list for a period of three (3) years from the termination date indicated below. The contractor is, however, only "debarred" from the "effective date" through the "termination date" indicated for that contractor. Questions regarding this list should be addressed to Julie Eckenwalder, Equal Rights Division, P. O. Box 8928, Madison, WI 53708 or call (608) 266-3148. Deaf, hearing or speech-impaired callers may contact the department by calling its TDD number (608) 264-8752.

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
Abel, Mike	See, Abel Electric, Inc					
Abel Electric, Inc	3385 Belmar Rd Green Bay, WI 54313	9/1/12	8/31/2015	1	2011	None
Atkins, Scott	See, Freedom Insulation, Inc					
Boecker, Roger	See, R-Way Pumping, Inc					
Castlerock Commercial Construction, Inc	PO Box 11699 Milwaukee, WI 53211-0699	2/1/12	1/31/15	1, 2 and 4	2009 & 2010	None
Custom Heating & Air LLC	283 Tony Lane Green Bay, WI 54304	12/1/06	11/30/09	1, 2 and 4	2003 & 2004	None
Dem/Ex Group, Inc	805 S Adams St Manito, IL 61546	12/1/11	11/30/14	1 and 2	2010	None
Fisher, Ed &/or Fisher, Rhonda	See, Dem/Ex Group, Inc					
Freedom Insulation, Inc	117925 219 <sup>th</sup> Ave Chippewa Falls, WI 54729	9/1/11	8/31/14	1	2008- 2010	None

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
JT Roofing, Inc	350 Tower Dr Saukville, WI 53080	6/1/11	5/31/15	1, 2 and 4	2007 & 2008	None
Jinkins, Richard	See, Castlerock Commercial Construction, Inc.					
Joseph Stoller Company	N8426 Hwy 42 Algoma, WI 54201	2/1/07	1/31/10	1 and 2	2004 & 2005	None
Keiver, David	See, Custom Heating & Air LLC					
Ofstie, Darin	See, Precision Excavating and Grading, LLC					
Precision Excavating and Grading, LLC or Precision Excavating Enterprises, LLC	2104 Pierce Saint Croix Rd Baldwin, WI 54002	5/1/11	4/30/14	1, 2 and 4	2006- 2008	None
R-Way Pumping, Inc	3023 Lake Maria Rd Freeport, MN 56331	3/1/12	2/28/15	1, 2 and 4	2008	None
Stoller Enterprises LLC	N8426 Hwy 42 Algoma, WI 54201-9552	2/1/2007	1/31/10	1 and 2	2005 to 2006	None
Stoller, Joseph	See, Joseph Stoller Company					
Stoller, Patrick J	See, Stoller Enterprises LLC					
Thull, Gerald T	See, JT Roofing, Inc.					

Cause Code: 1 = Failure to Pay Straight Time 2 = Failure to Pay Overtime 3 = Kickback 4 = Payroll Records.

## Disclosure of Ownership

The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d), 66.0904(10)(d) and 103.49(7)(d), Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1) (m), Wisconsin Statutes]

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency, local governmental unit, or developer, investor or owner on a project subject to Section 66.0903, 66.0904 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency, local governmental unit, or developer, investor or owner, the name of any "other construction business", which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.
- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 66.0904(2), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency project owner, local governmental unit project owner, or developer, investor or owner of a publicly funded private construction project that will be awarding the contract, if **both (A) and (B) are met.**
  - (A) The contractor, or a shareholder, officer or partner of the contractor:
    - (1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.
    - (2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
  - (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for

### Other Construction Business

Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code

**I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.**

Print the Name of Authorized Officer			
Signature of Authorized Officer	Date Signed		
Name of Corporation, Partnership or Sole Proprietorship			
Street Address or P O Box	City	State	Zip Code

**If you have any questions call (608) 266-6861**



## Prime Contractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(c), 66.0904(7)(c) and 103.49(4r)(c) Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Agency** indicated below.

	Project Name		
State Of )	DWD Determination Number	Project Number (if applicable)	
)SS	Date Determination Issued	Date of Contract	
County Of )	Awarding Agency		
	Date Work Completed		

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below and have recently completed all of the work required under the terms and conditions of a contract with the above-named awarding agency and make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(c), 66.0904(7)(c) or 103.49(4r)(c), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding agency.
- **I have** fully complied with all the wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding agency indicated above.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address	City	State	Zip Code	Telephone Number
Print Name of Authorized Officer			Date Signed	
Signature of Authorized Officer				

## List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

## Agent or Subcontractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(b), 66.0904(7)(b) and 103.49(4r)(9b), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, Section 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Contractor** indicated below.

State Of _____ )  )SS  County Of _____ )	Project Name	
	DWD Determination Number	Project Number (if applicable)
	Date Determination Issued	Date of Subcontract
	Awarding Contractor	
	Date Work Completed	

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below. We have recently completed all of the work required under the terms and conditions of a subcontract with the above-named awarding contractor. We make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(b), 66.0904(7)(b) or 103.49(4r)(b), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding contractor.
- **I have** fully complied with the entire wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding contractor.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address or PO Box	City	State	Zip Code	Telephone Number (    )
Print Name of Authorized Officer			Date Signed	
Authorized Officer Signature				

## List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number (    )			Telephone Number (    )		

**If you have any questions call (608) 266-6861**

## Request to Employ Subjourneyperson

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04(1)(m), Wisconsin Statutes).

The employer indicated below requests that the Department of Workforce Development (DWD) determine the prevailing wage rate(s) and related qualifications to enable such employer to use a subjourneyperson(s) on the following prevailing wage project, in accordance with the provisions of Section DWD 290.025, Wisconsin Administrative Code.

1. Name of Project Appearing on the Project Determination		
County	City, Village or Town	
DWD Project Determination Number	Project Number (if applicable)	
2. Job Classification(s) for which you request a subjourney rate (i.e., carpenter, electrician, plumber, etc.)		
a.	b.	
c.	d.	
3. Employer Name (Print)		
Address	City	State
Telephone Number (       )	Requester Title	
Email address (if you prefer to receive your response via email)	Fax Number (if you prefer to receive your response via fax) (       )	

**READ CAREFULLY:** I understand that this request is ONLY applicable to the project and job classification(s) listed above and that subjourney employees primarily work under the direction of and assist a skilled trade employee by frequently using the tools of a skilled trade and will NOT regularly perform the duties of a general laborer, heavy equipment operator or truck driver. If the subjourney employee regularly performs the work of a different trade or occupation, he/she will be compensated for such work at the applicable journeyperson prevailing wage rate. I agree to compensate subjourney employees in strict accordance with the directions received from the DWD.

Requester Signature	Date Signed
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MAIL the completed request to:  
 EQUAL RIGHTS DIVISION, LABOR STANDARDS BUREAU  
 PO BOX 8928, MADISON WI 53708  
 OR  
 FAX the completed request to: (608) 267-0310 / **DO NOT e-mail your request.**  
 Call (608) 266-6861 for assistance in completing this form.

Department of Workforce Development  
Equal Rights Division  
P.O. Box 8928  
Madison, WI 53708-8928  
Telephone: (608) 266-6860  
Fax: (608) 267-4592  
TTY: (608) 264-8752



Scott Walker, Governor  
Reginald J. Newson, Secretary  
John P. Conway, Division Administrator

## PREVAILING WAGE – Public Entity Project Owners

Any public works project that has a total estimated project cost that equals or exceeds single-trade or multiple-trade project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for each of these exclusions. The prevailing wage law that applies to local governmental units is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies is §103.49, Wis. Stats. The applicable administrative rules for all public entities are DWD 290 and DWD 294, Wis. Adm. Code.

### Thresholds

A "single-trade project of public works" means a project in which a single trade accounts for 85% or more of the total labor cost of the project. The single trade threshold is \$48,000.

A "multiple-trade project of public works" means a project in which no single trade accounts for 85% or more of the total labor cost of the project.

(a) The multiple-trade threshold is \$100,000, unless a municipality falls under the description in (b).

(b) The multiple-trade threshold of \$234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for •a city or village with a population less than 2500 or •a town.

Effective July 1, 2011, a local governmental unit or state agency that has a public works project that equals or exceeds the prevailing wage thresholds must do all of the following:

- Request a prevailing wage rate determination for the project from DWD at least 30 days before soliciting bids or negotiating contracts. An Application for Prevailing Wage Rate Determination is available on the DWD website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm)

To avoid waiting for a project determination use the on-line application system that permits the user to generate a determination immediately and save all documents in PDF form to the user's computer. Use this project determination on line application at the following address:

[http://dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/pw\\_online\\_determinations.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/pw_online_determinations.htm)

- Tell potential contractors the project is subject to state prevailing wage law when soliciting bids.
- Include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each prime contractor.
- Award contracts to contractors who do *not* appear on the “Consolidated List of Debarred Contractors.”
- Post the prevailing wage rate determination on the project site. (This document is often referred to as “the white sheet.”)
- Notify project contractors that if DWD finds that a contractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.
- Obtain an Affidavit of Compliance from each prime contractor before making final payment for the project.

If the total estimated cost of the project exceeds the prevailing wage thresholds, a local governmental unit or state agency also must obtain a prevailing wage rate determination under the following circumstances:

- when a completed facility is leased, purchased, lease-purchased or otherwise acquired by or dedicated to a public entity in lieu of the public entity contracting for the project,
- when one public entity does work for another public entity,
- when a *private* entity will construct a road, street, bridge, sanitary sewer or water main project and dedicate it to a local governmental unit or the state for its ownership or maintenance (except for some residential subdivisions).

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

Department of Workforce Development  
Equal Rights Division  
P.O. Box 8928  
Madison, WI 53708-8928  
Telephone: (608) 266-6860  
Fax: (608) 267-4592  
TTY: (608) 264-8752



Scott Walker, Governor  
Reginald J. Newson, Secretary  
John P. Conway, Division Administrator

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## PREVAILING WAGE – Contractors

Any public works project that has a total estimated project cost that equals or exceeds prevailing wage project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for each of these exclusions. The prevailing wage law that applies to local governmental units and their contractors is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies and their contractors is §103.49, Wis. Stats. The applicable administrative rules for all prevailing wage projects are DWD 290 and DWD 294, Wis. Adm. Code. These laws include provisions that apply to all contractors and subcontractors working on prevailing wage projects.

Effective July 1, 2011, any contractor or subcontractor working on a local governmental unit or state agency's public works project that equals or exceeds current prevailing wage project thresholds must do all of the following:

- Receive and review the project's prevailing wage rate determination (i.e., white sheet).
- Tell subcontractors the project is subject to state prevailing wage law and include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each subcontractor.
- Hire subcontractors who do *not* appear on the "Consolidated List of Debarred Contractors."
- Notify subcontractors that if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.



- Apply to DWD for subjourney wage rates prior to employing these individuals on the project.
- Receive and retain a completed Affidavit of Compliance from each subcontractor brought on to the project before providing final payment to those subcontractors.
- Submit a completed Affidavit of Compliance to the contractor who brought the subcontractor on to the project before receiving final payment for the project.
- Maintain payroll records for 3 years that comply with §§66.0903(10)(a) or 103.49(5)(a), Stats. and DWD 274.06.
- Respond to requests from DWD or the project owner to provide payroll records and/or respond to prevailing wage complaints filed by employees or third parties.

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

## SUMMARY OF PREVAILING WAGE LAW CHANGES EFFECTIVE JULY 1, 2011

(This document updated 07/27/11)

For further updates on this topic, refer to the prevailing wage website at:  
[http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm)

The recently approved State budget bill (2011 Wisconsin Act 40) includes major changes to prevailing wage laws (§§66.0903, 66.0904, 103.49 & 103.50, Wis. Stats.) effective JULY 1, 2011. Significant changes are described below.

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Thresholds	All public entities & Contractors	The \$25,000 threshold for public works projects has been changed to single-trade and multiple-trade project thresholds as noted below. The new thresholds apply to prevailing wage projects whose prime contract is awarded after June 30, 2011.
Non-applicability: Threshold for Single-Trade Projects	All public entities & Contractors	Any single-trade project of public works with an estimated cost of completion of less than \$48,000 does not require a prevailing wage rate determination. "Single-trade project of public works" means a project of public works in which a single trade accounts for 85 percent or more of the total labor cost of the project.
Non-applicability: Threshold for Multiple-Trade Projects	All public entities except cities, towns & villages as noted below & Contractors	Any multiple-trade project of public works with an estimated cost of completion of less than \$100,000 does not require a prevailing wage rate determination. "Multiple-trade project of public works" means a project of public works in which no single trade accounts for 85 percent or more of the total labor cost of the project.
Non-applicability: Threshold for Multiple-Trade Projects	Cities or villages with a population less than 2500 & Towns & Contractors	A multiple trade project of public works erected, constructed, repaired, remodeled, or demolished by a private contractor for a city or village with a population less than 2500, or a town with an estimated cost of completion of less than \$234,000 does not require a prevailing wage rate determination. "Multiple-trade project of public works" means a project of public works in which no single trade accounts for 85 percent or more of the total labor cost of the project.
Non-applicability: Minor service & maintenance work	Towns & Contractors	The following TOWN projects only do not require a prevailing wage rate determination: <ul style="list-style-type: none"> <li>• A project not funded under §86.31, Stats. (TRIP projects) that is limited to minor crack filling, chip or slurry sealing or other minor pavement patching, not including overlays.</li> <li>• The depositing of gravel on an existing gravel road applied solely to maintain the road;</li> <li>• Road shoulder maintenance;</li> <li>• Cleaning drainage or sewer ditches or structures;</li> <li>• Any other limited, minor work on public facilities or equipment that is routinely performed to prevent breakdown or deterioration.</li> </ul>
Non-applicability: Work which a contractor or individual donates to a public entity	All public entities	Prevailing wage laws §§66.0903 & 103.49, Stats., do not apply to work performed on a project of public works for which the local governmental unit or the state or the state agency contracting for the project is not required to compensate any contractor, subcontractor, contractor's or subcontractor's agent, or individual for performing the work.

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Non-applicability: Residential	All public entities	A prevailing wage rate determination is not required for the erection, construction, repair, remodeling, or demolition of a residential property containing 2 dwelling units or less.
Non-applicability: Residential subdivision infrastructure	All public entities	A prevailing wage rate determination is not required for a road, street, bridge, sanitary sewer, or water main project that is a part of a development in which at least 90 percent of the lots contain or will contain 2 dwelling units or less, as determined by the local governmental unit at the time of approval of the development, and that, on completion, is acquired by, or dedicated to, a local governmental unit (including under §236.13(2), Stats.), or the state, for ownership or maintenance by the local governmental unit or the state.
Non-applicability: Certain nursing homes	All public entities	Prevailing wage law §66.0903, Stats., does not apply to a project of public works involving the erection, construction, repair, remodeling, or demolition of a nursing home in a county having a population of less than 50,000 when the project commences no later than July 1, 2012.
Electronic certified payroll record	Contractors	The requirement that every contractor on a prevailing wage project submit to DWD monthly a certified record of employees who worked on the project and that DWD post these certified records on its Internet website is discontinued effective July 1, 2011. However, contractors who worked on prevailing wage projects during the period January 1, 2010 through June 30, 2011, must comply with the repealed law for work completed on projects during that period of time.
Payroll record inspection request by any person	Contractors & Complainants	Any person may request DWD to inspect the payroll records of any contractor working on a prevailing wage project. On receipt of such a request, the contractor must submit to DWD a certified record of its payroll records, other than personally identifiable information relating to an employee of the contractor, for no longer than a 4-week period. DWD may request records from a contractor under this provision no more than once per calendar quarter for each project of public works on which the contractor is performing work. The department may not charge a requester a fee for obtaining that information. DWD must make these certified records available for public inspection.
Complaints	Complainants	There are no longer investigation fees.
Statewide uniformity	Local governmental units	A local governmental unit may not enact & administer a prevailing wage ordinance/provision for public works or publicly funded private construction projects. Any extant laws to that effect are void.

Topic	Who's affected?	Brief description of requirement under §66.0903, §103.49 or §103.50
Covered employees	Truck drivers & Other workers & Contractors	<p>A laborer, worker, mechanic, or truck driver who is employed to process, manufacture, pick up, or deliver materials or products from a commercial establishment that has a fixed place of business from which the establishment supplies processed or manufactured materials or products or from a facility that is not dedicated exclusively, or nearly so, to a project of public works is NOT entitled to receive the prevailing wage rate UNLESS any of the following applies:</p> <ol style="list-style-type: none"> <li>1) the laborer, worker, mechanic, or truck driver is employed to go to the source of mineral aggregate such as sand, gravel, or stone and deliver that mineral aggregate to the site of a project of public works by depositing the material directly in final place, from the transporting vehicle or through spreaders from the transporting vehicle.</li> <li>2) the laborer, worker, mechanic, or truck driver is employed to go to the site of a project of public works, pick up excavated material or spoil from the site of the project, and transport that excavated material or spoil away from the site of the project.</li> </ol>
Annual Prevailing Wage Survey	All public entities	When establishing yearly prevailing wage rates, DWD may not use data from any construction work that is performed by a local governmental unit or a state agency.
Prevailing Wage Rates	DOT & Contractors & Employees	For state highway prevailing wage rates, DWD is required to include wage rates for work performed on Sundays, holidays and shift differentials based on the time of day or night when work is performed.

The 2009-2011 State budget bill (2009 Wisconsin Act 28) created a new prevailing wage law (§66.0904, Wis. Stats.) for PUBLICLY FUNDED PRIVATE CONSTRUCTION PROJECTS effective January 1, 2010. The current 2011-2013 State budget bill (2011 Wisconsin Act 32) REPEALS this law. So the publicly funded private construction projects law only applies to projects that awarded the prime contract during the period January 1, 2010 through June 30, 2011.

**SINGLE & MULTIPLE TRADE PROJECT THRESHOLDS  
FOR §§66.0903 & 103.49, Wis. Stats.  
Effective July 1, 2011**

The \$25,000 threshold for public works projects has been changed to single-trade and multiple-trade project thresholds as described below. Projects of public works with total estimated costs of completion that equal or exceed these thresholds require a prevailing wage rate determination.

**SINGLE-TRADE THRESHOLD**

A “single-trade project of public works” means a project in which a single trade accounts for 85 percent or more of the total labor cost of the project.

The single trade threshold is \$48,000.

**MULTIPLE-TRADE THRESHOLDS**

A “multiple-trade project of public works” means a project in which no single trade accounts for 85 percent or more of the total labor cost of the project.

(a) The multiple-trade threshold is \$100,000, unless a municipality falls under the description in (b).

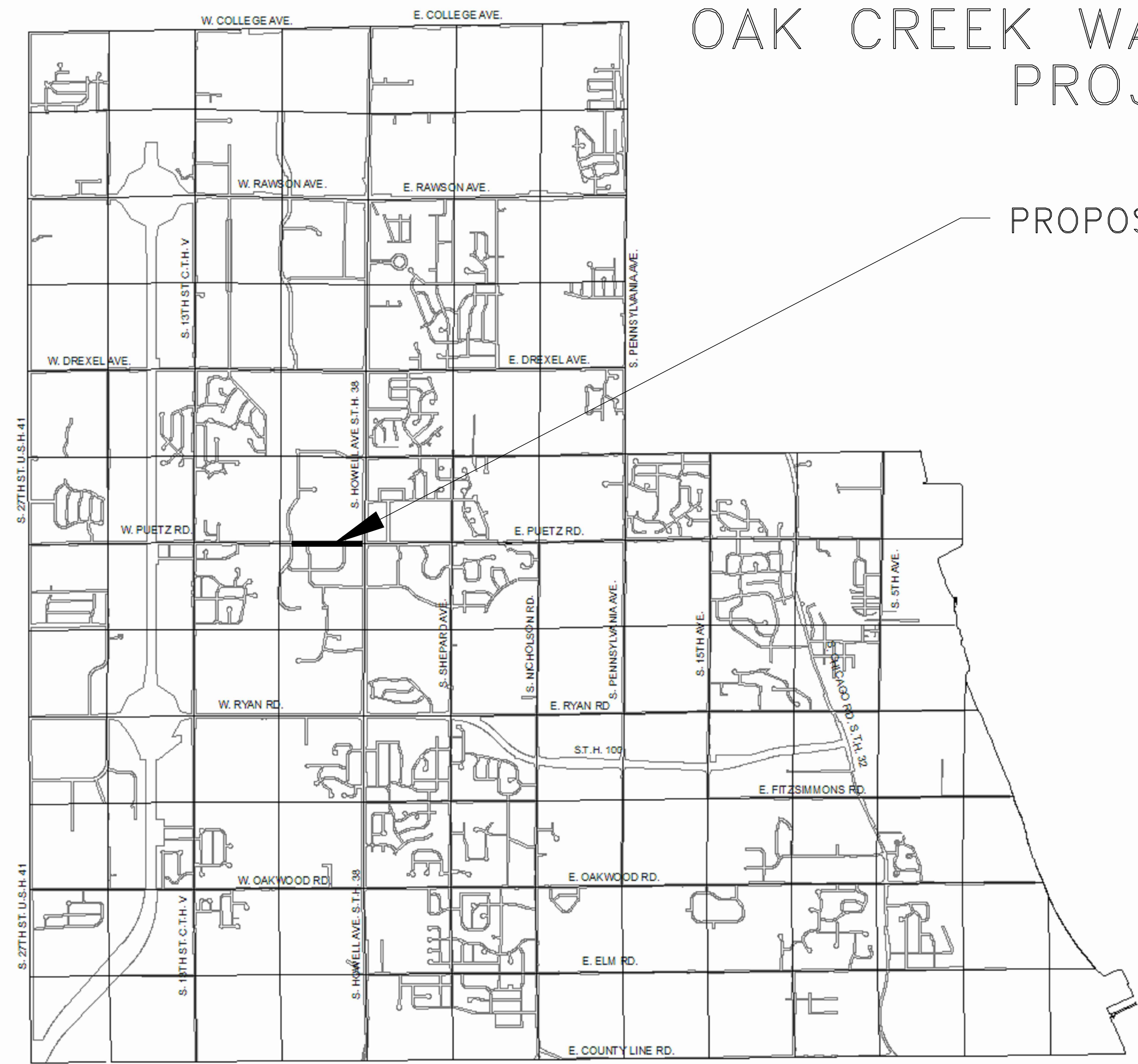
(b) The multiple-trade threshold of \$234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for:

- a city or village with a population less than 2500, or
- a town

**APPLYING THE NEW THRESHOLDS**

The department will apply the new single-trade & multiple-trade prevailing wage thresholds to projects of public works for which the prime contract is awarded on or after July 1, 2011.

# OAK CREEK WATER & SEWER UTILITY PROJECT 12102



PROPOSED 24" WATER MAIN

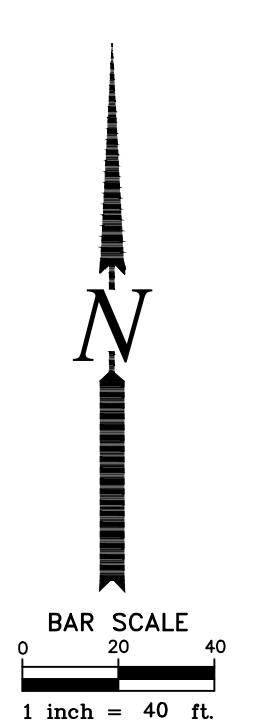
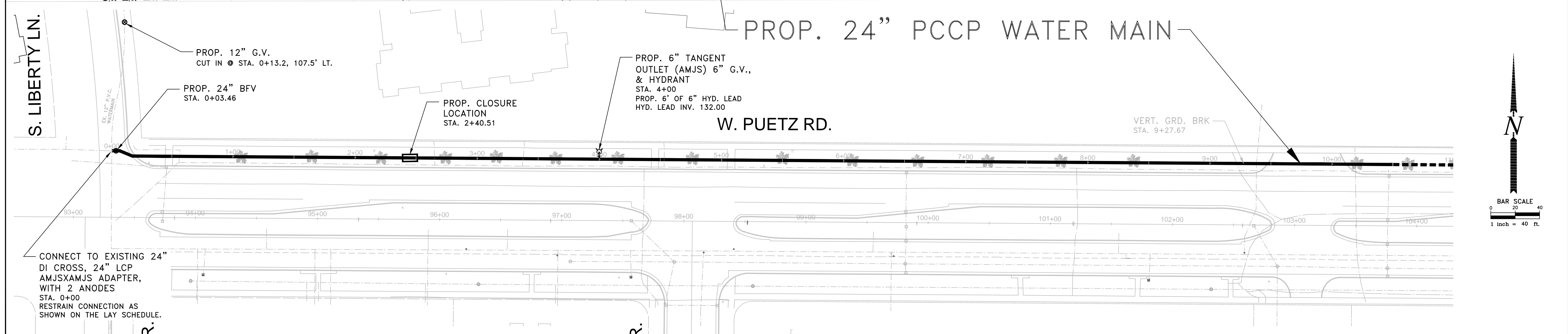
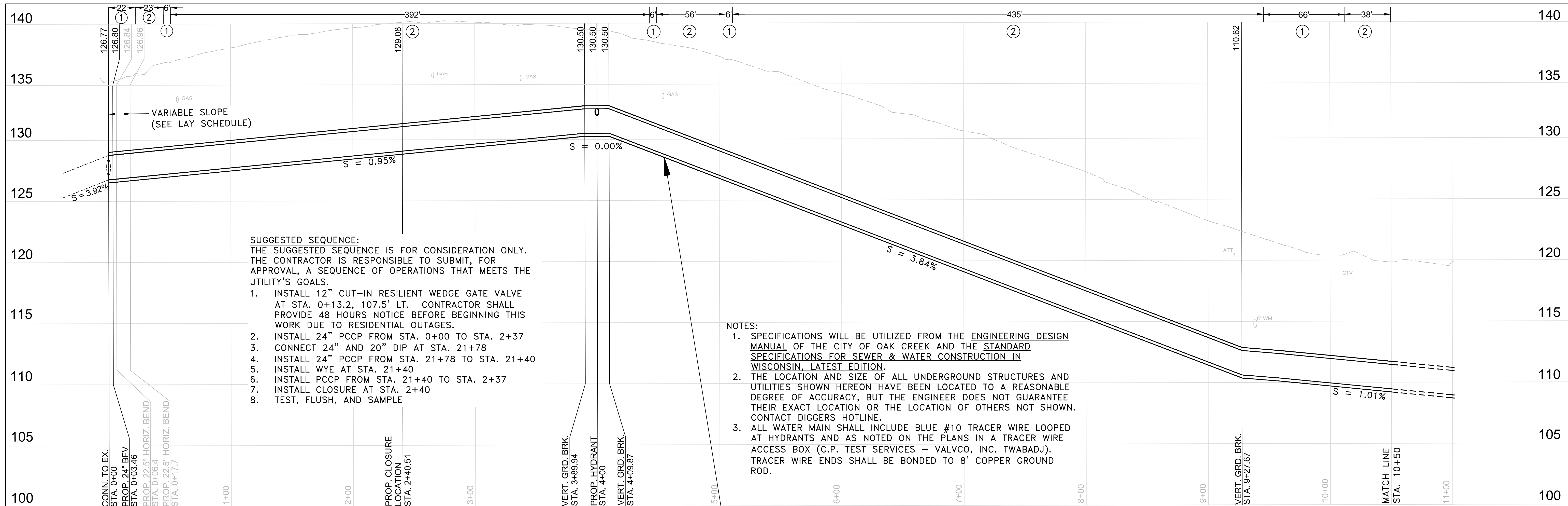


SHEET	DESCRIPTION
1	TITLE PAGE
2	PROPOSED WATER MAIN
3	PROPOSED WATER MAIN
4	TRAFFIC CONTROL - PH. 1
5	TRAFFIC CONTROL - PH. 1
6	TRAFFIC CONTROL - PH. 2
7	TRAFFIC CONTROL - PH. 2
8	FLUSHING STATION & ANODE DETAILS
9	INLET PROTECTION DETAILS

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

SA.SG	CITY OF OAK CREEK, WISCONSIN DESIGNED BY _____ DATE _____ DRAWN BY _____ DATE _____ CHECKED BY _____ DATE _____ R.P. 11/1/2012 S.G. 11/1/2012  <b>COVER SHEET</b> PROPOSED WATER MAIN IN: W. PUETZ ROAD  REVISION BY _____ DATE _____	APPROVED BY _____	
ST.SG		UTILITY ENGINEER _____ DATE _____	
W.SG		APPROVED BY _____	
C.SG		CITY ENGINEER _____ DATE _____	
E.SG		SCALE _____ SHEET _____	
T.SG		PLAN HOR. N.T.S. _____ 1 _____	
L.SG		PROFILE HOR. N.T.S. _____ OF _____	
TS.SG		VER. _____ 9 _____	
PP.SG		FILE NO: 12102-1C-2137	



ESTIMATE OF QUANTITIES	
BID ITEM NOS.	
1	24" PCCP WATER MAIN, 3/4" T.B. BACKFILL & SURF. REST. .... 106 L.F.
2	24" PCCP WATER MAIN, SPOIL BACKFILL & SURF. REST. .... 944 L.F.
4	CONNECT TO EX. 24" WATER MAIN, LIBERTY ..... 1 EA.
5	HYDRANT, LEAD & VALVE ..... 1 EA.
7	12" GATE VALVE ..... 1 EA.
9	24" BUTTERFLY VALVE ..... 1 EA.
10	TRAFFIC CONTROL (PROJECT) ..... 1 EA.
11	INLET PROTECTION TYPE C ..... 3 EA.

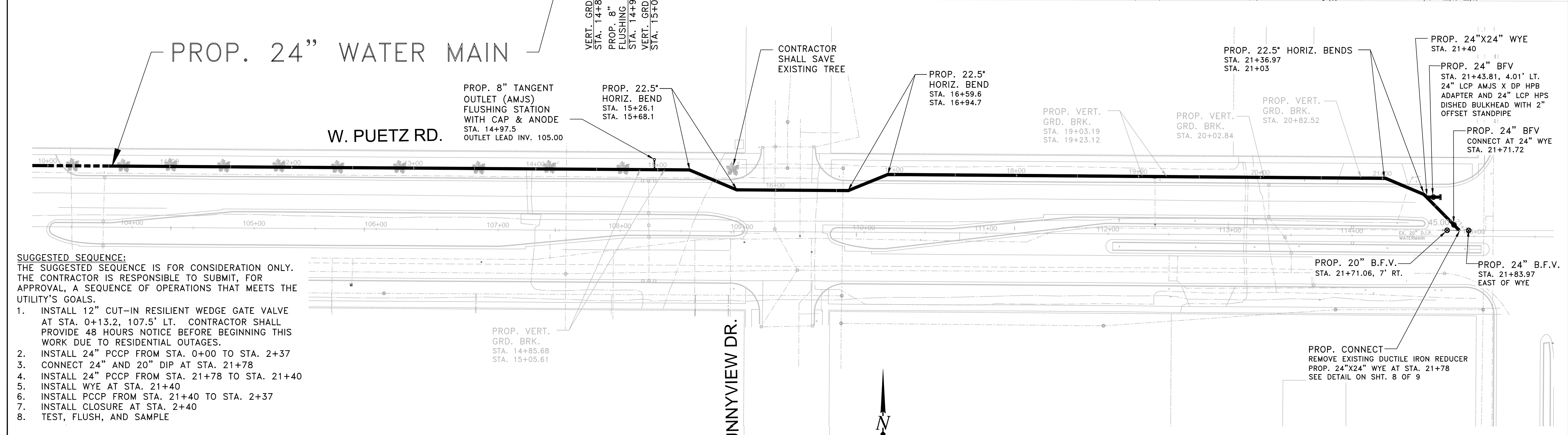
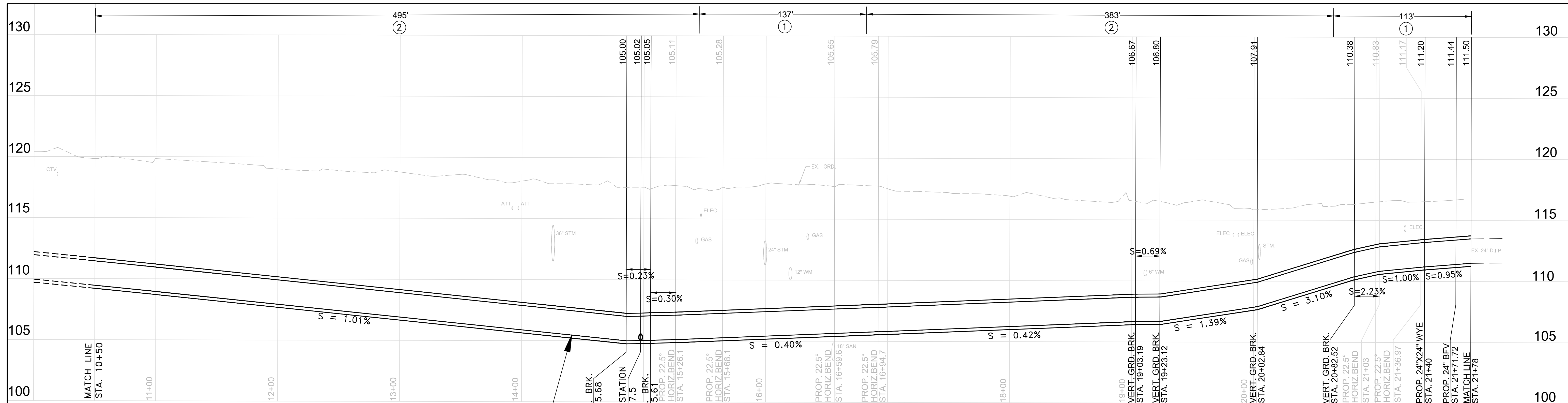
SA, SG	
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G, SG	
E, SG	
T, SG	
L, SG	
TS, SG	
PP, SG	
R.P.	1/7/2013
R.P.	11/8/2012
REVISION BY	DATE

CITY OF OAK CREEK, WISCONSIN			
DESIGNED BY	DATE	DRAWN BY	DATE
R.P.	11/1/2012	S.G.	11/1/2012
PROP. 24" PCCP TRANSMISSION MAIN			
IN: W. PUETZ ROAD			
FR: 500' WEST OF S. SUNNYVIEW DR.			
TO: S. LIBERTY LN.			

APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN HOR. 1"=40'	2
PROFILE HOR. 1"=40'	OF
VER. 1"=4'	9
FILE NO:12102-2C-2138	

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_



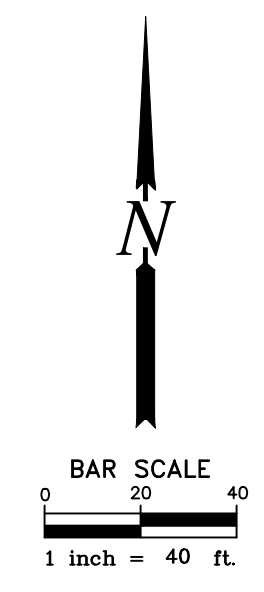
**SUGGESTED SEQUENCE:**  
 THE SUGGESTED SEQUENCE IS FOR CONSIDERATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO SUBMIT, FOR APPROVAL, A SEQUENCE OF OPERATIONS THAT MEETS THE UTILITY'S GOALS.

1. INSTALL 12" CUT-IN RESILIENT WEDGE GATE VALVE AT STA. 0+13.2, 107.5' LT. CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE BEFORE BEGINNING THIS WORK DUE TO RESIDENTIAL OUTAGES.
2. INSTALL 24" PCCP FROM STA. 0+00 TO STA. 2+37
3. CONNECT 24" AND 20" DIP AT STA. 21+78
4. INSTALL 24" PCCP FROM STA. 21+78 TO STA. 21+40
5. INSTALL WYE AT STA. 21+40
6. INSTALL PCCP FROM STA. 21+40 TO STA. 2+37
7. INSTALL CLOSURE AT STA. 2+40
8. TEST, FLUSH, AND SAMPLE

- NOTES:**
1. SPECIFICATIONS WILL BE UTILIZED FROM THE ENGINEERING DESIGN MANUAL OF THE CITY OF OAK CREEK AND THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
  2. THE LOCATION AND SIZE OF ALL UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN LOCATED TO A REASONABLE DEGREE OF ACCURACY, BUT THE ENGINEER DOES NOT GUARANTEE THEIR EXACT LOCATION OR THE LOCATION OF OTHERS NOT SHOWN. CONTACT DIGGERS HOTLINE.
  3. ALL WATER MAIN SHALL INCLUDE BLUE #10 TRACER WIRE LOOPED AT HYDRANTS AND AS NOTED ON THE PLANS IN A TRACER WIRE ACCESS BOX (C.P. TEST SERVICES - VALVCO, INC. TWABADJ). TRACER WIRE ENDS SHALL BE BONDED TO 8' COPPER GROUND ROD.

ESTIMATE OF QUANTITIES	
BID ITEM NOS.	
1	24" PCCP WATER MAIN, 3/4" T.B. BACKFILL & SURF. REST. .... 250 L.F.
2	24" PCCP WATER MAIN, SPOIL BACKFILL & SURF. REST. .... 878 L.F.
3	CONNECT TO EX. 24" WATER MAIN, HOWELL AVE. .... 1 EA.
6	8" OUTLET AND FLUSHING STATION ..... 1 EA.
8	20" BUTTERFLY VALVE ..... 1 EA.
9	24" BUTTERFLY VALVE ..... 3 EA.
10	TRAFFIC CONTROL (PROJECT) ..... 1 EA.
11	INLET PROTECTION TYPE C ..... 7 EA.

S. SUNNYVIEW DR.



This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

SA, SG	
ST, SG	
W, SG	
G, SG	
E, SG	
T, SG	
L, SG	
TS, SG	
PP, SG	
R.P.	1/7/2013
R.P.	11/8/2012
REVISION BY	DATE

**CITY OF OAK CREEK, WISCONSIN**

DESIGNED BY \_\_\_\_\_ DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_ DATE \_\_\_\_\_ CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

R.P. 11/1/2012 S.G. 11/1/2012

**PROP. 24" PCCP TRANSMISSION MAIN**

IN: W. PUETZ ROAD  
 FR: 15' WEST OF S. HOWELL AVE.  
 TO: 500' WEST OF S. SUNNYVIEW DR.

APPROVED BY	
UTILITY ENGINEER _____	DATE _____
APPROVED BY	
CITY ENGINEER _____	DATE _____
SCALE	SHEET
PLAN 1"=40'	3
PROFILE 1"=40'	OF
VER. 1"=40'	9
FILE NO:12102-3C-2139	



S. LIBERTY

W. PUETZ RD.

WOOD CREEK DR.

S. COUNTRY DR.

W. PUETZ RD.

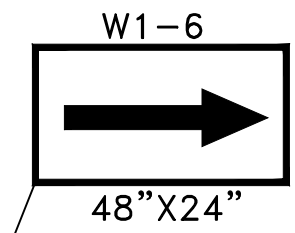
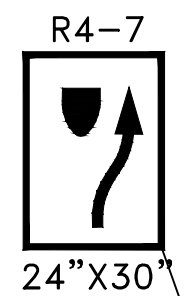
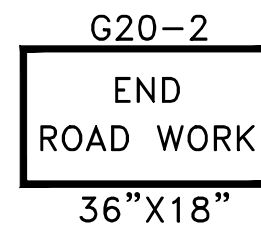
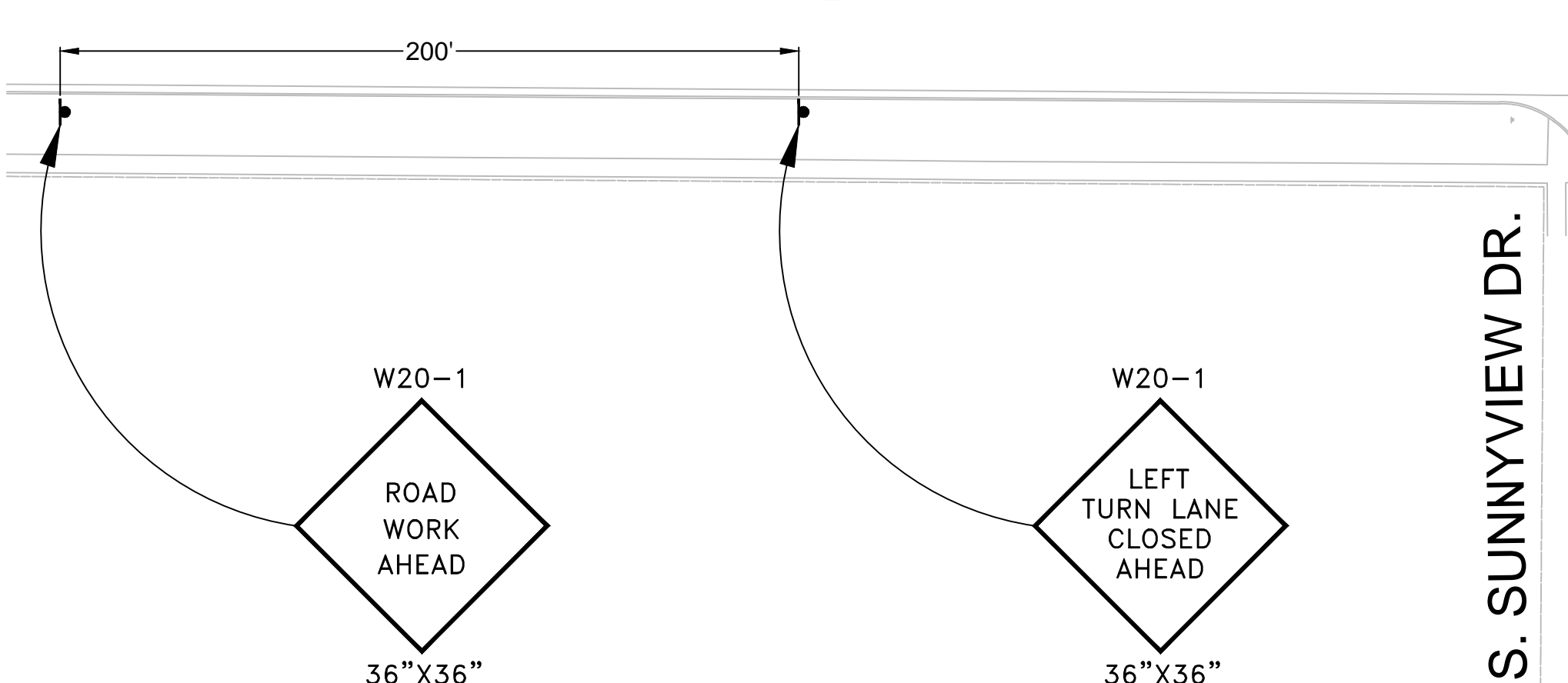
S. SUNNYVIEW DR.

S. HOWELL AVE. S.T.H. 38

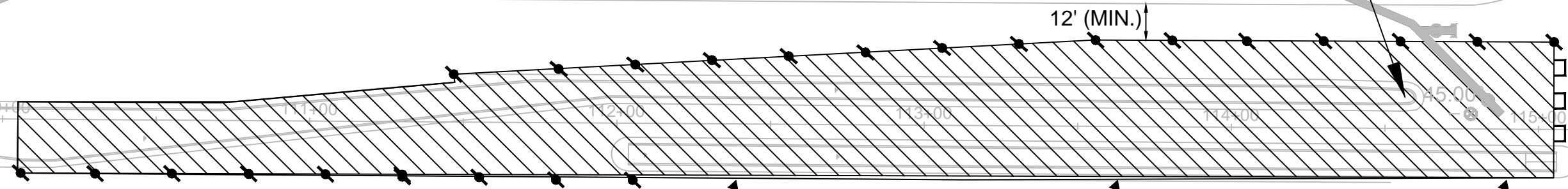
93+00 94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00

105+00 106+00 107+00 108+00 109+00

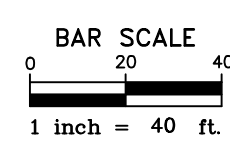
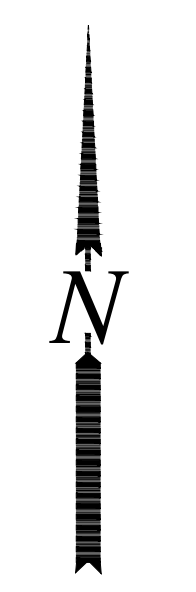
236+00 235+00



REMOVE EXISTING (KEEP RIGHT)  
REPLACE IN PHASE II



TEMPORARY PAVEMENT MARKING  
ARROWS REMOVABLE TAPE (TYP.)



This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

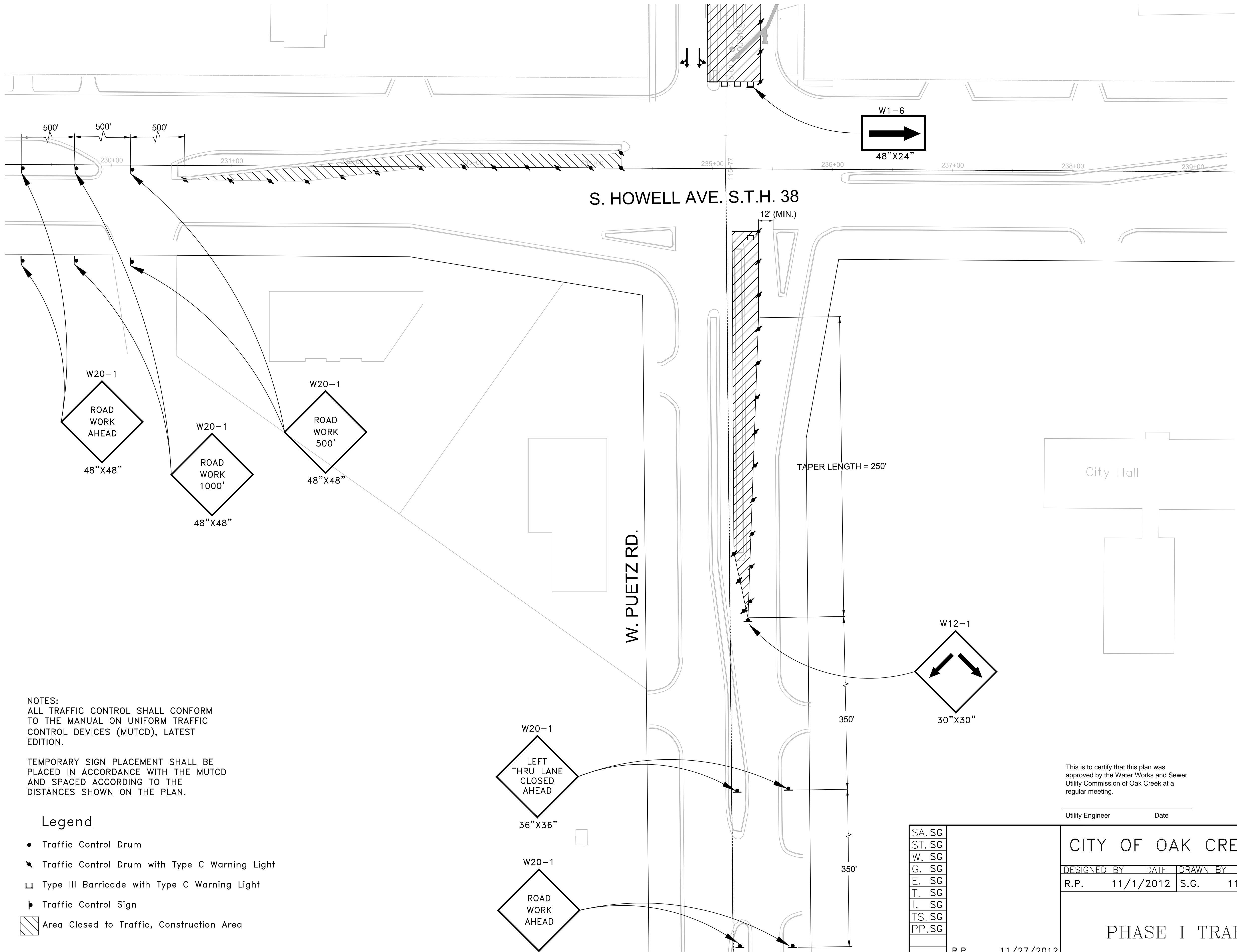
SA. SG	
ST. SG	
W. SG	
G. SG	
E. SG	
T. SG	
L. SG	
TS. SG	
PP. SG	
R.P.	11/27/2012
R.P.	11/9/2012
REVISION BY	DATE

CITY OF OAK CREEK, WISCONSIN		
DESIGNED BY	DATE	DRAWN BY
R.P.	11/1/2012	S.G.
CHECKED BY	DATE	
PHASE I TRAFFIC CONTROL		

APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN HOR. 1"=40'	4
PROFILE HOR.	OF
VER.	9
FILE NO:12102-4C-2140	

- Legend**
- Traffic Control Drum
  - Traffic Control Drum with Type C Warning Light
  - Type III Barricade with Type C Warning Light
  - ▬ Traffic Control Sign
  - ▨ Area Closed to Traffic, Construction Area

**NOTES:**  
ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.  
TEMPORARY SIGN PLACEMENT SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND SPACED ACCORDING TO THE DISTANCES SHOWN ON THE PLAN.

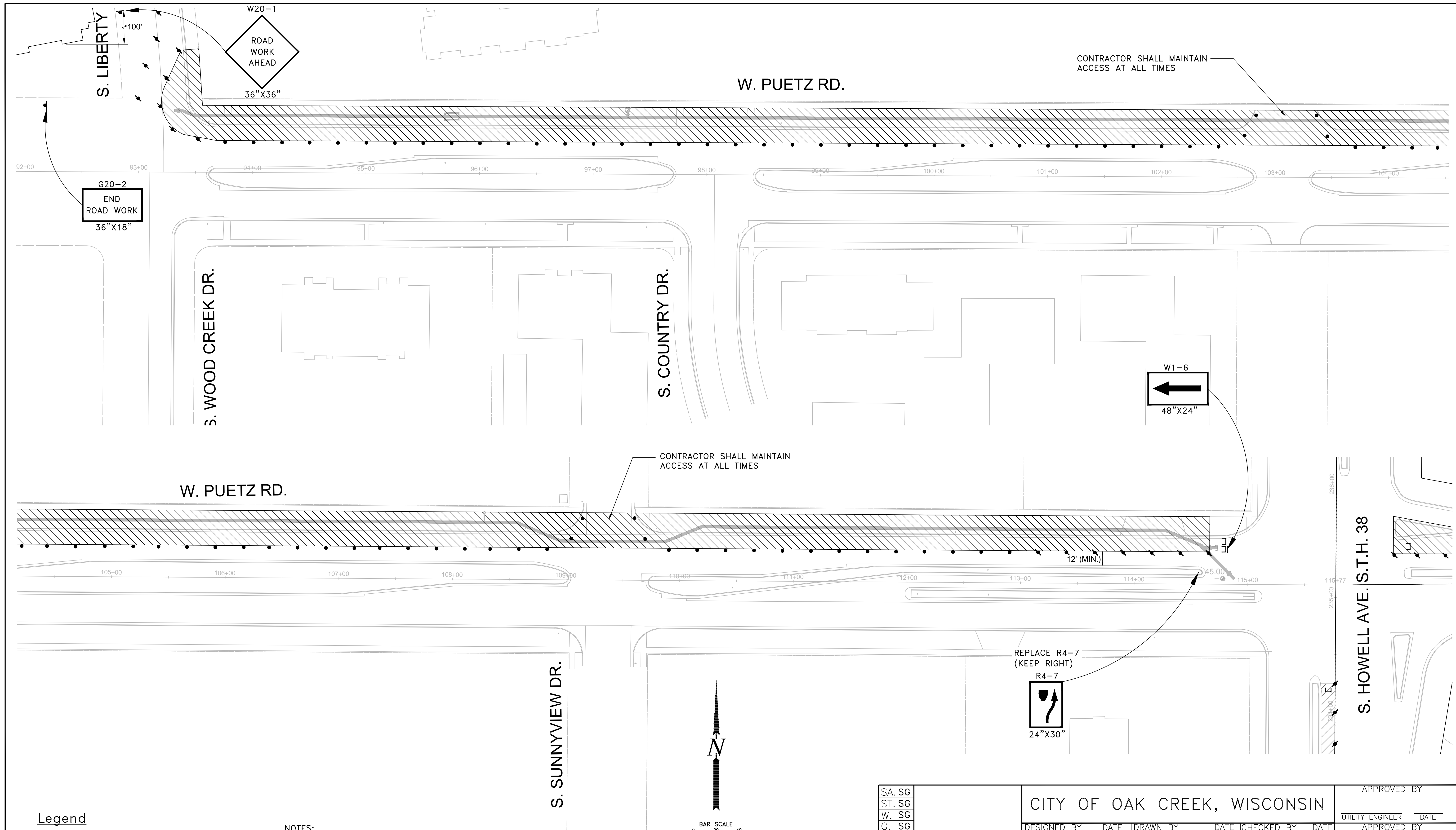


NOTES:  
 ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.  
 TEMPORARY SIGN PLACEMENT SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND SPACED ACCORDING TO THE DISTANCES SHOWN ON THE PLAN.

- Legend**
- Traffic Control Drum
  - ⚡ Traffic Control Drum with Type C Warning Light
  - ▢ Type III Barricade with Type C Warning Light
  - ▶ Traffic Control Sign
  - ▨ Area Closed to Traffic, Construction Area

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.  
 Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

SA. SG ST. SG W. SG G. SG E. SG T. SG I. SG TS. SG PP. SG	CITY OF OAK CREEK, WISCONSIN			APPROVED BY _____		
	DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
R.P.	11/1/2012	S.G.	11/1/2012			
PHASE I TRAFFIC CONTROL			CITY ENGINEER	DATE		
			SCALE	SHEET		
			PLAN HOR. 1"=40'	5		
			PROFILE	OF		
			VER.	9		
REVISION BY DATE			FILE NO:12102-5C-2141			

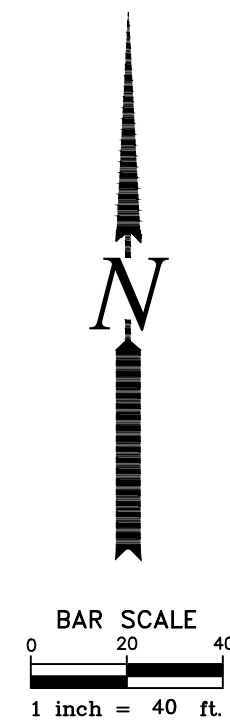


**Legend**

- Traffic Control Drum
- ◫ Traffic Control Drum with Type C Warning Light
- ◻ Type III Barricade with Type C Warning Light
- ▶ Traffic Control Sign
- ▨ Area Closed to Traffic, Construction Area

NOTES:  
 ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

TEMPORARY SIGN PLACEMENT SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND SPACED ACCORDING TO THE DISTANCES SHOWN ON THE PLAN.



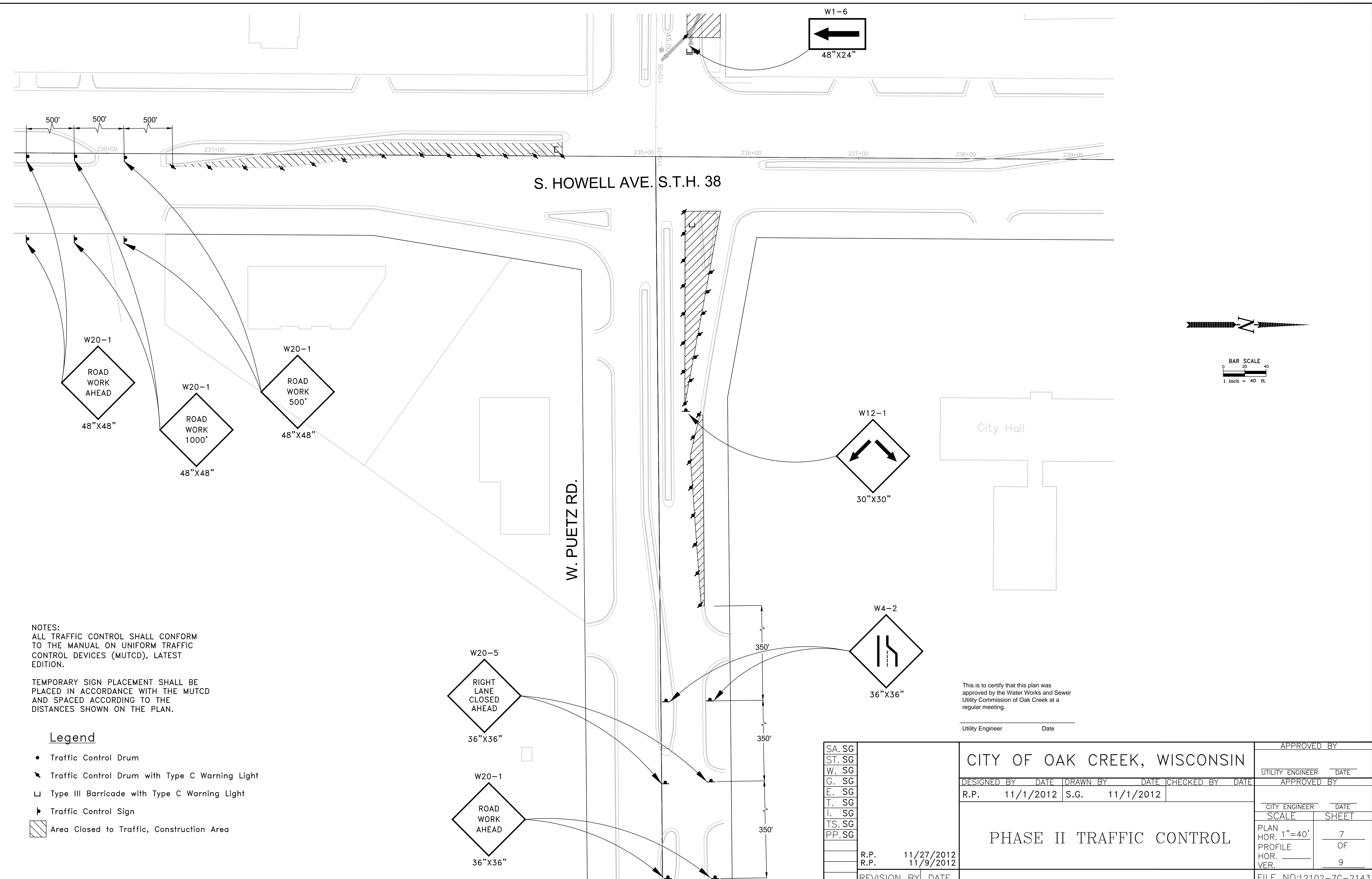
This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

SA, SG	
ST, SG	
W, SG	
G, SG	
E, SG	
T, SG	
L, SG	
TS, SG	
PP, SG	
R.P.	11/27/2012
R.P.	11/9/2012
REVISION BY	DATE

CITY OF OAK CREEK, WISCONSIN		
DESIGNED BY	DATE	DRAWN BY
R.P.	11/1/2012	S.G.
CHECKED BY	DATE	
PHASE II TRAFFIC CONTROL		

APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN HOR. 1"=40'	6
PROFILE	OF
HOR.	
VER.	9
FILE NO:12102-6C-2142	

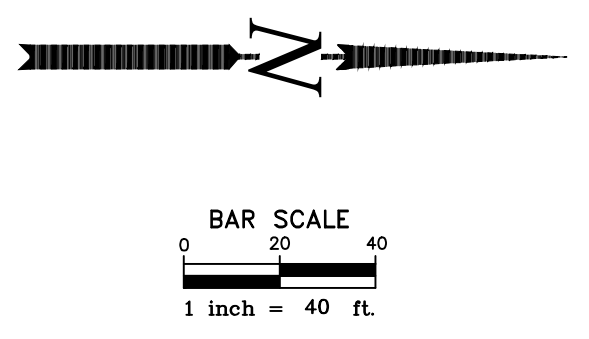


W1-6  
48"X24"

S. HOWELL AVE. S.T.H. 38

W. PUETZ RD.

City Hall



NOTES:  
ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.  
TEMPORARY SIGN PLACEMENT SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND SPACED ACCORDING TO THE DISTANCES SHOWN ON THE PLAN.

**Legend**

- Traffic Control Drum
- ◐ Traffic Control Drum with Type C Warning Light
- ◑ Type III Barricade with Type C Warning Light
- ▬ Traffic Control Sign
- ▨ Area Closed to Traffic, Construction Area

W20-5  
RIGHT LANE CLOSED AHEAD  
36"X36"

W20-1  
ROAD WORK AHEAD  
36"X36"

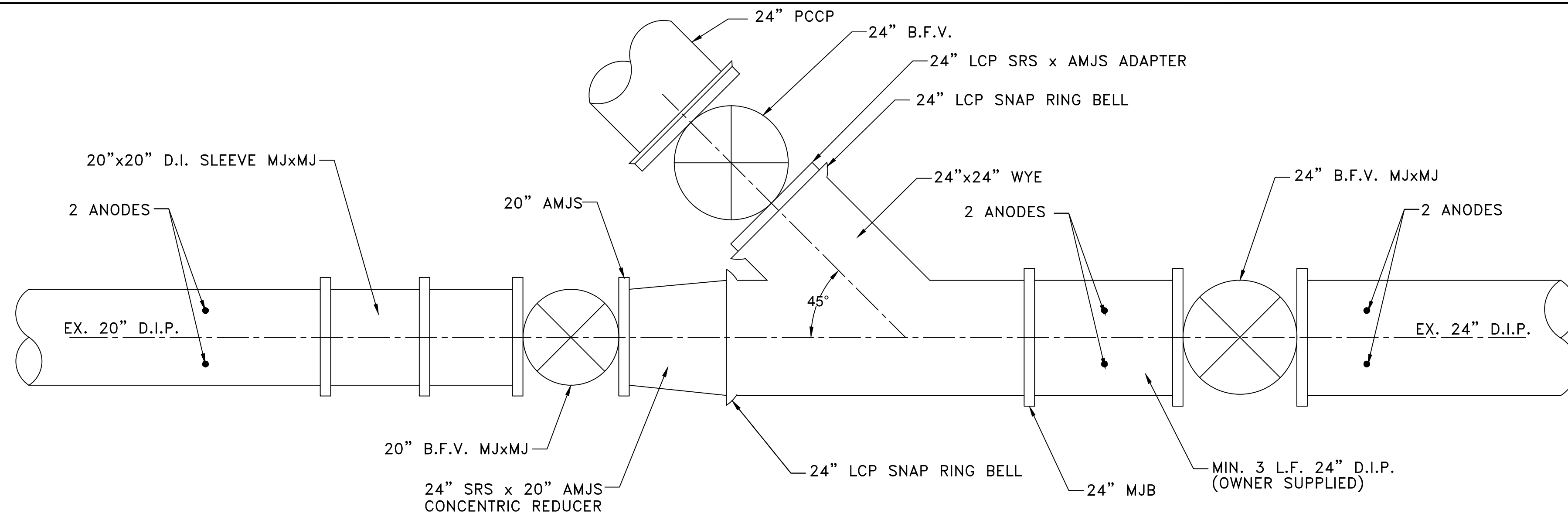
W12-1  
30"X30"

W4-2  
36"X36"

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

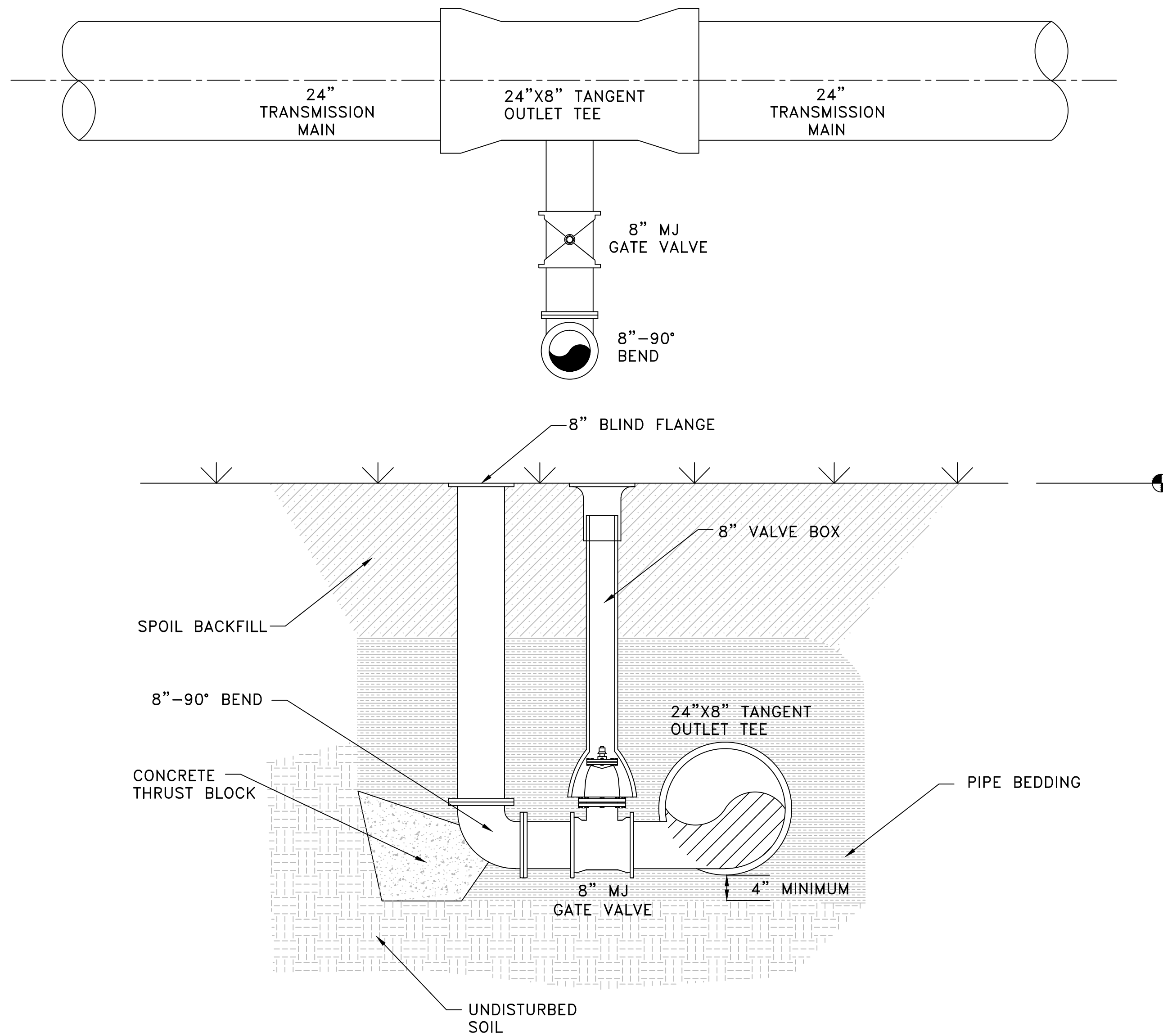
Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

SA. SG ST. SG W. SG C. SG E. SG T. SG I. SG TS. SG PP. SG	CITY OF OAK CREEK, WISCONSIN			APPROVED BY		
	DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
	R.P.	11/1/2012	S.G.	11/1/2012		
	PHASE II TRAFFIC CONTROL					CITY ENGINEER _____ DATE _____ SCALE _____ SHEET _____ PLAN HOR. 1"=40' _____ 7 _____ PROFILE OF _____ VER. _____ 9 _____
REVISION BY		DATE		FILE NO:12102-7C-2143		



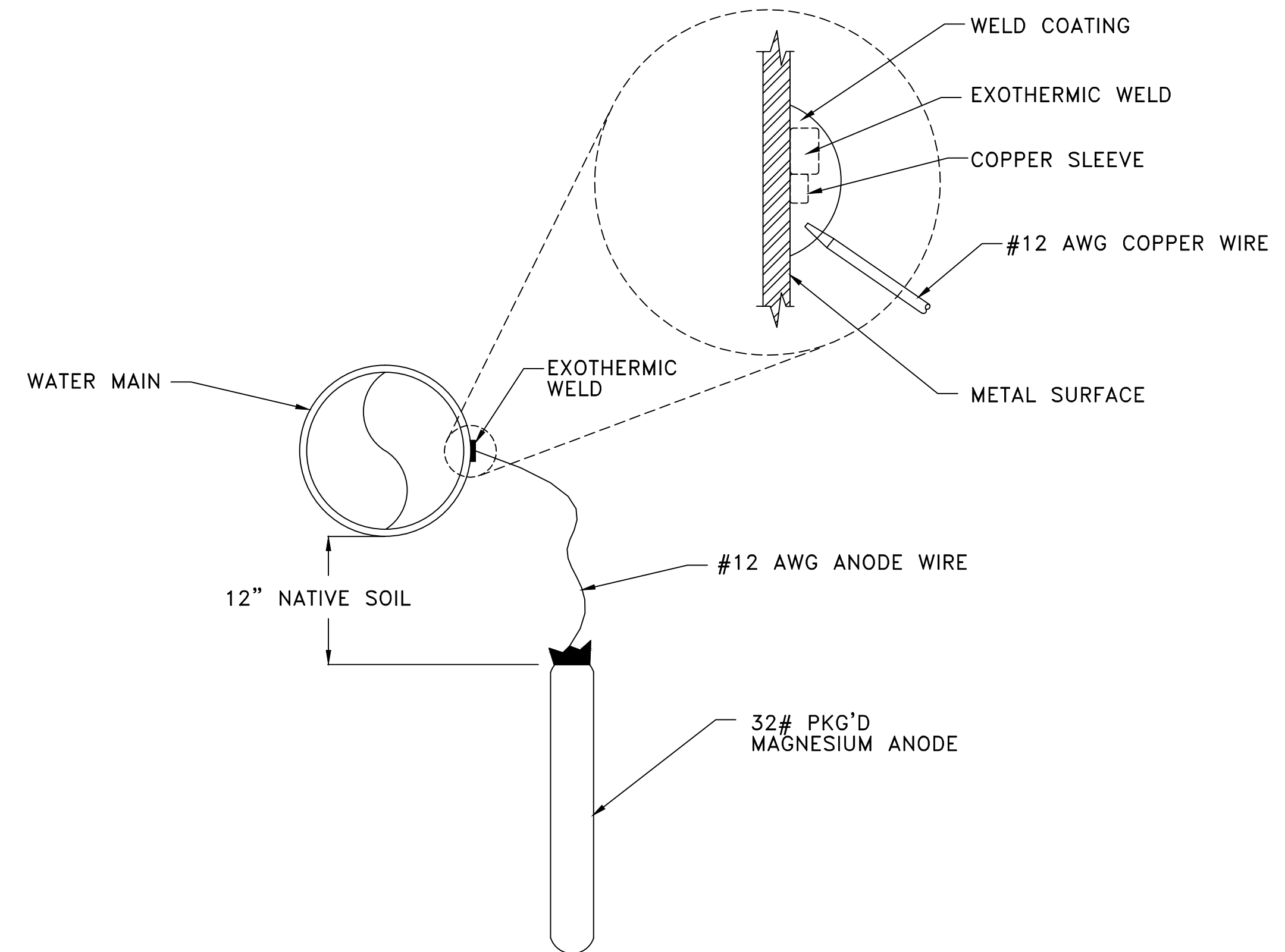
NOTE: ALL MECHANICAL JOINT (MJ) CONNECTIONS SHALL BE MEGALUG.

CONNECTION DETAIL @ S. HOWELL AVE.  
Scale: NTS



FLUSHING STATION DETAIL

Scale: NTS

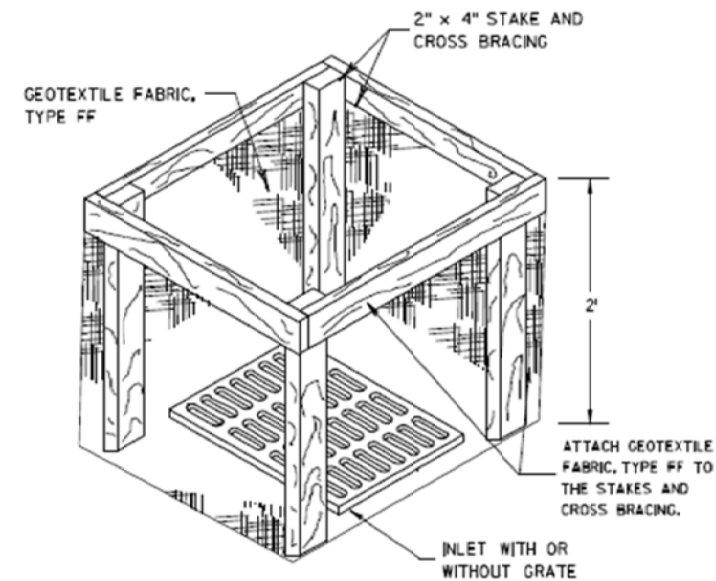
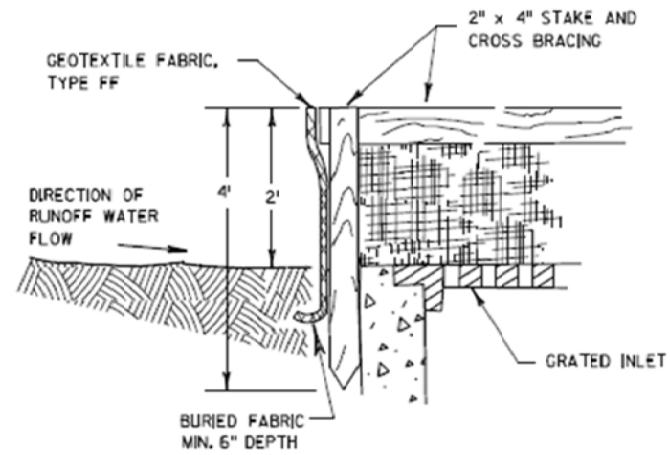


GALVANIC ANODE INSTALLATION  
Scale: NTS

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer Date

SA. SG				APPROVED BY		
ST. SG	CITY OF OAK CREEK, WISCONSIN			UTILITY ENGINEER	DATE	
W. SG	DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	
G. SG	R.P.	11/1/2012	S.G.	11/1/2012		
E. SG	CONSTRUCTION DETAILS				APPROVED BY	
T. SG					CITY ENGINEER	DATE
L. SG					SCALE	SHEET
TS. SG					PLAN	8
PP. SG			PROFILE	OF		
				HOR. N.T.S.	9	
				VER. N.T.S.		
	REVISION BY	DATE			FILE NO:12102-8C-2144	



**INLET PROTECTION, TYPE A**

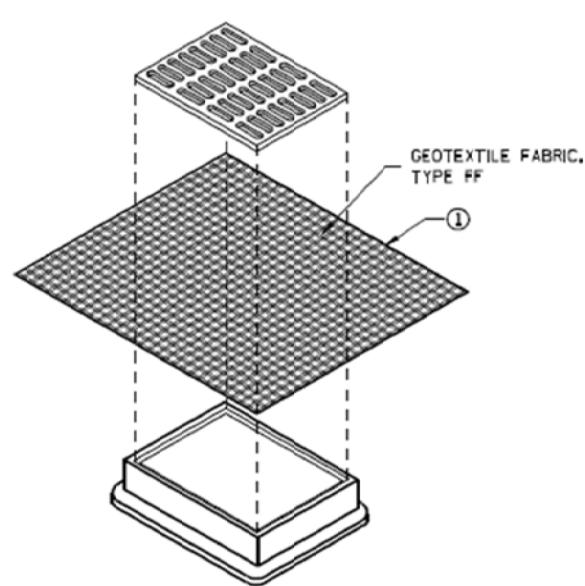
**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

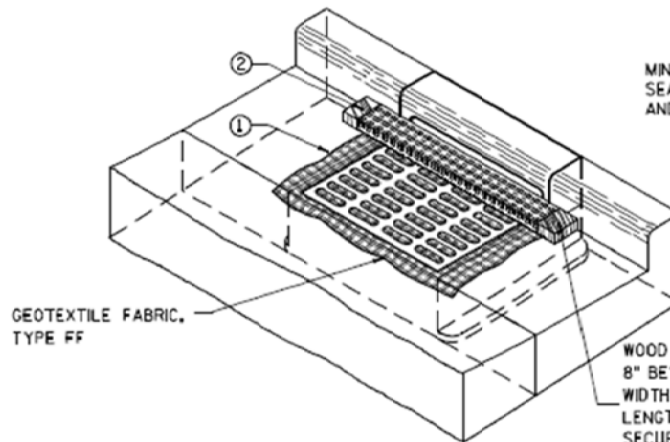
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

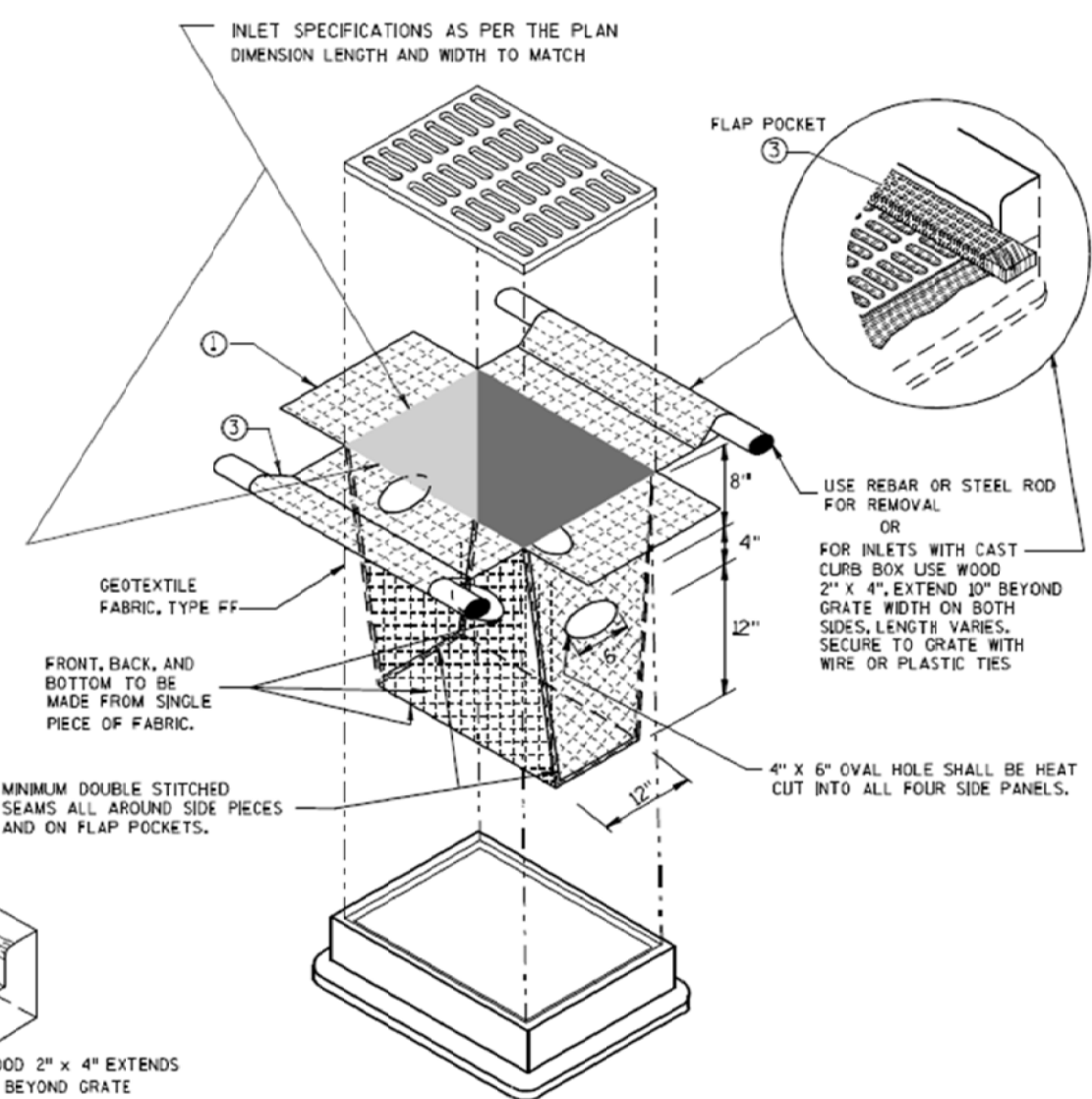


**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



**INLET PROTECTION, TYPE C (WITH CURB BOX)**



**INLET PROTECTION, TYPE D**

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

**INSTALLATION NOTES**

**TYPE B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CNCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer \_\_\_\_\_ Date \_\_\_\_\_

<b>INLET PROTECTION TYPE A, B, C, AND D</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/16/02 DATE	/s/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

- SA. SG
- ST. SG
- W. SG
- G. SG
- E. SG
- T. SG
- I. SG
- TS. SG
- PP. SG

CITY OF OAK CREEK, WISCONSIN			
DESIGNED BY	DATE	DRAWN BY	DATE
R.P.	11/1/2012	S.G.	11/1/2012
<b>INLET PROTECTION DETAILS</b>			
REVISION BY	DATE		

APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN HOR. N.T.S.	9
PROFILE HOR. N.T.S.	OF
VER. N.T.S.	9
FILE NO:12102-9C-2145	