

Contract Routing Form

ROUTING: Urgent Rush

printed on: 03/28/2013

Contract between: Super Excavators, Inc.
 and Dept. or Division: Engineering Division
 Name/Phone Number:

Project: University Relief Storm Sewer - Phase 4

Contract No.: 7009
 Enactment No.: RES-13-00205
 Dollar Amount: 4,486,541.00

File No.: 29275
 Enactment Date: 03/20/2013

(Please DATE before routing)

Signatures Required	Date Received	Date Signed
City Clerk	3-29-13	3-29-2013
Director of Civil Rights		4-1-13 MJO
Risk Manager	4-1-13	4/1/13 RN
Finance Director	4-1-13	4-2-13 RN
City Attorney #513	4-2-2013	4-2-2013
Mayor	4-2-13	

Please return signed Contracts to the City Clerk's Office
 Room 103, City-County Building for filing.

PCH 81537009

Original + 0 Copies

2

03/28/2013 12:05:05 enamb - Sally Swanson 266-4862

Dis Rights: OK / N/A / Problem - Hold
 Prev Wage: AA / Agency / No
 Contract Value: See above
 AA Plan: Approved
 Amendment / Addendum #
 Type: POS / Dvlp / Sbdv / Gov't /
 Grant / PW / Goal / Loan / Agrmt

Handwritten scribbles or marks in the top right corner.

[Sign In](#)

Legislative Information Center Home Legislation Meetings Common Council
Boards, Commissions and Committees Members



Details Reports

File #:	29275	Version:1	Name:	Awarding Public Works Contract No. 7009, University Relief Storm Phase 4.
Type:	Resolution		Status:	Passed
File created:	2/26/2013		In control:	<u>BOARD OF PUBLIC WORKS</u>
On agenda:	3/19/2013		Final action:	3/19/2013
Enactment date:	3/20/2013		Enactment #:	RES-13-00205
Title:	Awarding Public Works Contract No. 7009, University Relief Storm Phase 4.			
Sponsors:	<u>BOARD OF PUBLIC WORKS</u>			
Attachments:	<u>Contract 7009.pdf</u>			

History (4) Text

Fiscal Note

Budget authority is available in the Acct. Nos. listed on the attached.

Title

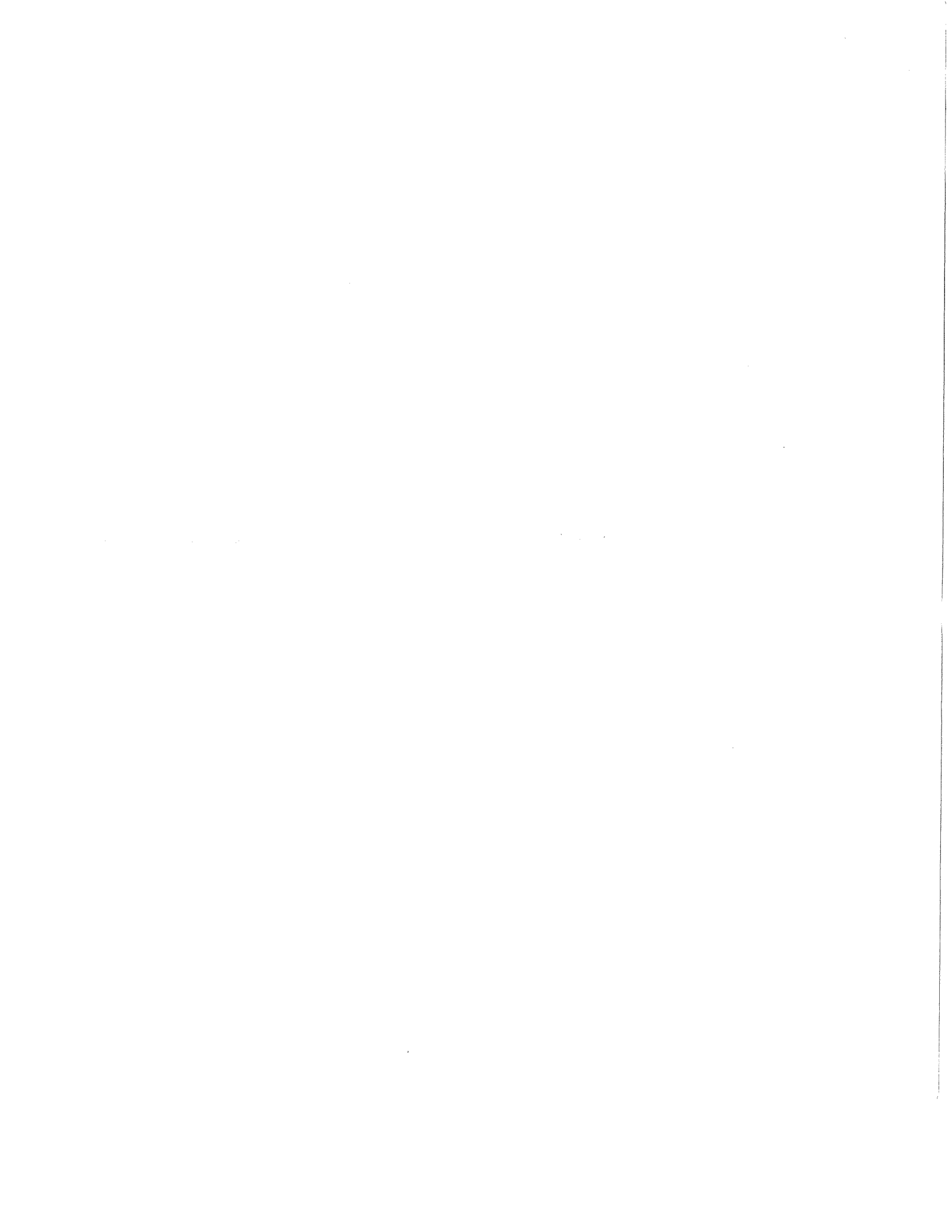
Awarding Public Works Contract No. 7009, University Relief Storm Phase 4.

Body

BE IT RESOLVED, that the following low bids for miscellaneous improvements be accepted and that the Mayor and City Clerk be and are hereby authorized and directed to enter into a contract with the low bidders contained herein, subject to the Contractor's compliance with Section 39.02 of the Madison General Ordinances concerning compliance with the Affirmative Action provisions **and subject to the Contractor's compliance with Section 33.07 of the Madison General Ordinances regarding Best Value Contracting:**

BE IT FURTHER RESOLVED, that the funds be encumbered to cover the cost of the projects contained herein.

See attached document (Contract No. 7009) for itemization of bids.



PROJECT

CONTRACTOR

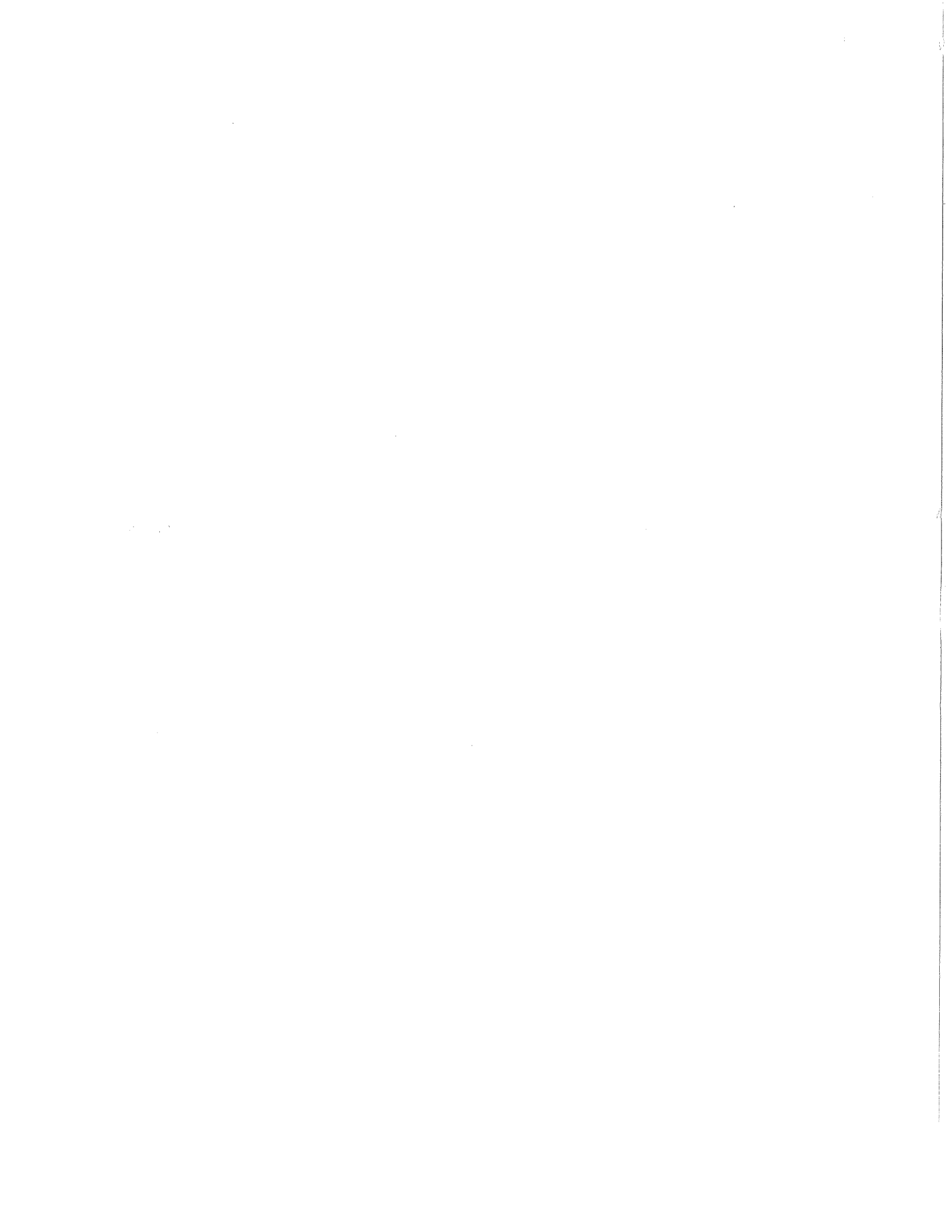
AMOUNT OF BID

CONTRACT NO. 7009
UNIVERSITY RELIEF STORM PHASE 4

SUPER EXCAVATORS, INC.

\$4,486,541.00

Acct. No. CS53-58250-810355-00-53W1399	\$115,336.00
Contingency 8%±	9,227.00
Plan & Prep 15%±	<u>17,297.00</u>
Sub-Total	\$141,860.00
Acct. No. CS53-58270-810355-00-53W1399	\$42,470.00
Contingency 8%±	3,397.00
Plan & Prep 15%±	<u>6,373.00</u>
Sub-Total	\$52,240.00
Acct. No. ESTM-58270-810381-00-53W1399	\$950,000.00
Contingency 2.35%±	<u>100,890.00</u>
Sub-Total	\$1,050,890.00
Acct. No. ESTM-58270-810385-00-53W1399	\$225,000.00
Acct. No. ESTM-58270-810514-00-53W1399	\$3,117,995.00
Acct. No. EW01-58273-810455-00-53W1399	\$29,050.00
Contingency 8%±	<u>2,320.00</u>
Sub-Total	\$31,370.00
Acct. No. CS53-58545-810355-00-53W1399	\$6,690.00
Contingency 8%±	535.00
Plan & Prep 15%±	<u>1,005.00</u>
Sub-Total	\$8,230.00
GRAND TOTAL	<u>\$4,627,585.00</u>



**Wisconsin Office of the Commissioner of Insurance
Licensed Producer Search***

Thursday, March 28, 2013

GESZVAIN, TERENCE R
SUSSEX WI

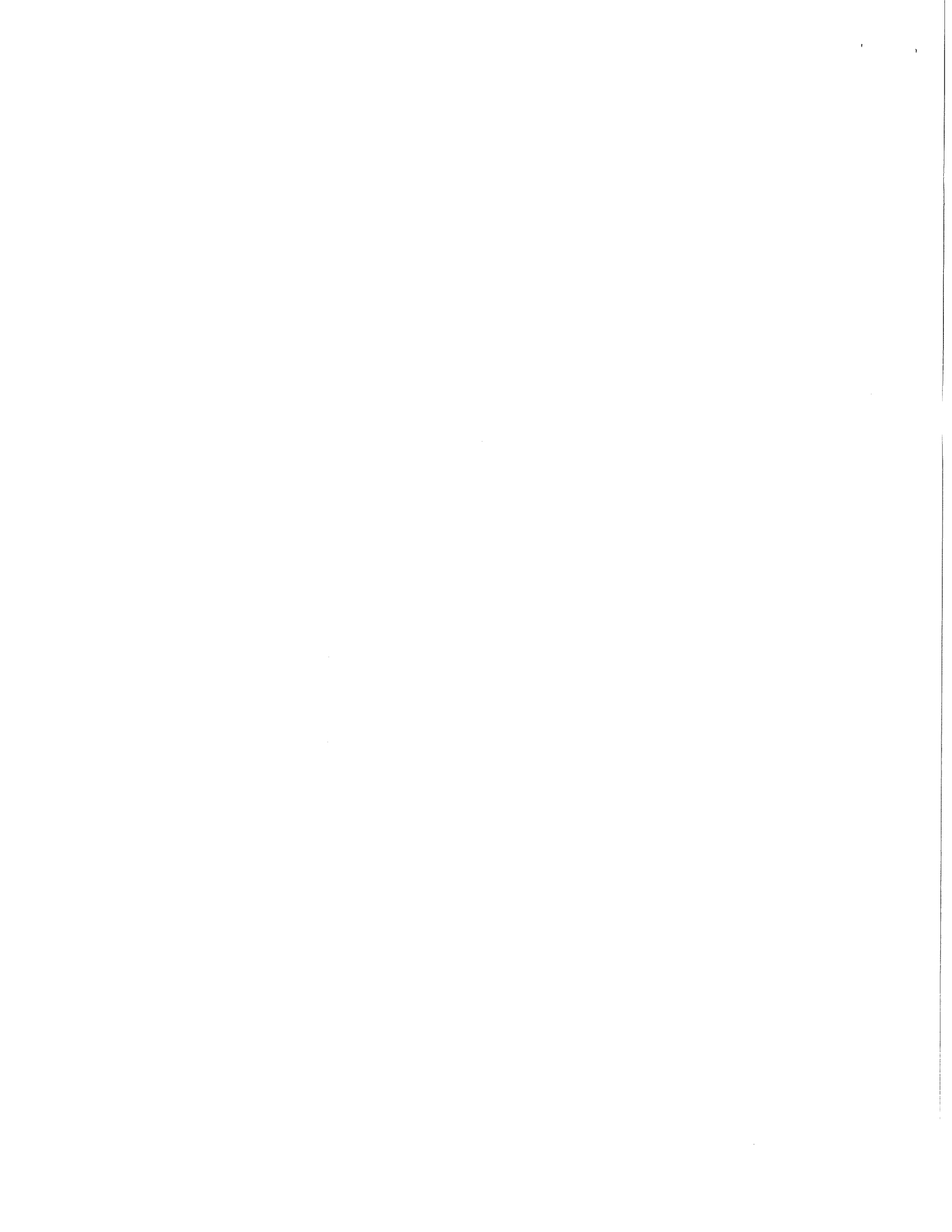
Year of Birth: 1965
Status: Active
License Number: 2040178
NPN**: 6489455
Effective Date: 03-25-1988
Expiration Date: 10-31-2014
License Type: Resident Intermediary Indv
CE Compliance: 10-31-2014

Lines of Authority

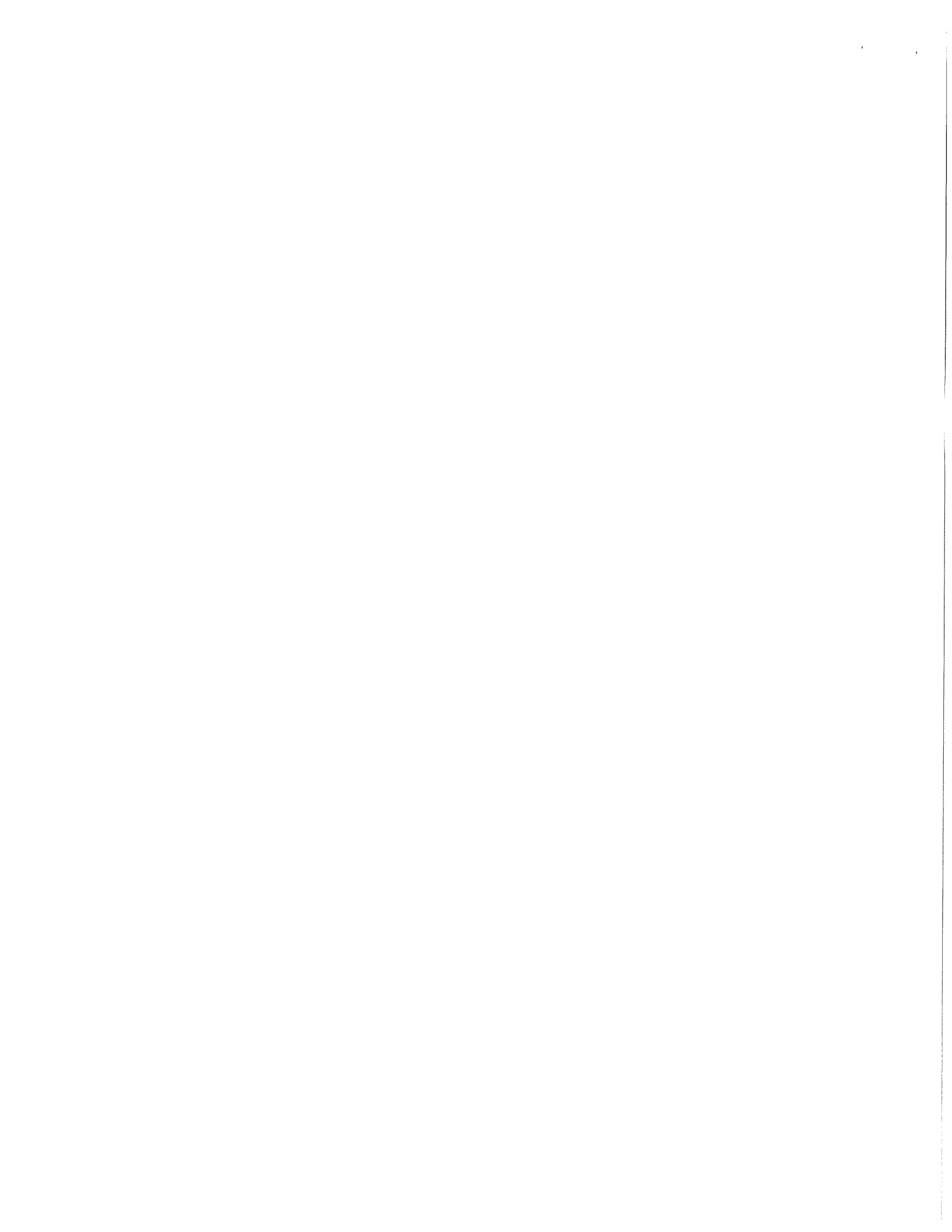
Line of Authority	Residency	Effective Date	Status
Casualty	Resident	09-22-1994	Active
Property	Resident	09-22-1994	Active
Accident & Health	Resident	04-16-1992	Inactive
	Resident	03-25-1988	Active
Life	Resident	04-16-1992	Inactive
	Resident	03-25-1988	Active

Appointments and Terminations

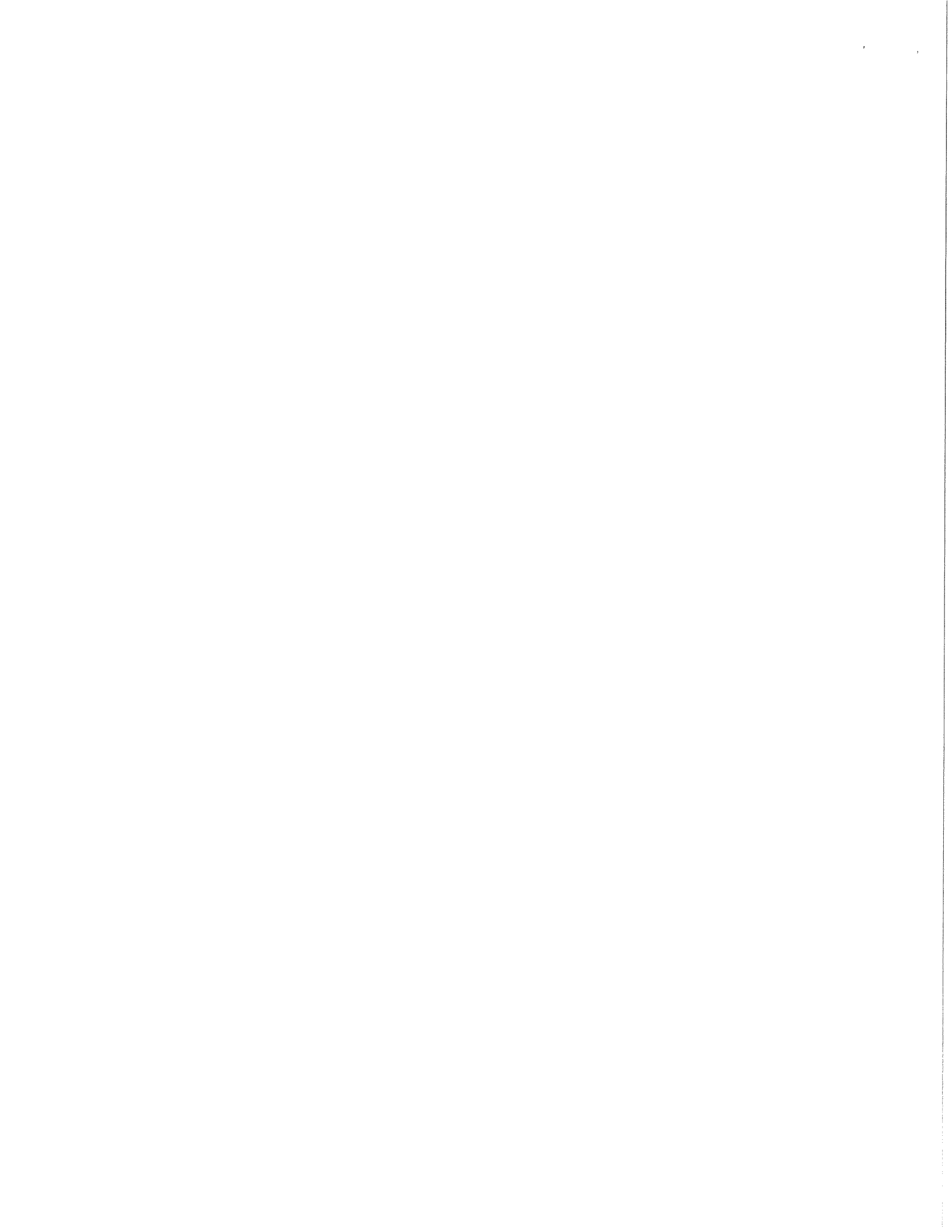
Company Name	Qualification Type/Status	Effective Date	Termination Date	Termination Reason
ACUITY, A Mutual Insurance Company	CAS/Active	03-17-2000		
	PROP/Active	03-17-2000		
American Casualty Company of Reading, Pennsylvania	CAS/Active	05-23-2000		
	PROP/Active	05-23-2000		
American Contractors Indemnity Company	CAS/Active	03-19-2009		
American Guarantee and Liability Insurance Company	CAS/Active	12-09-2008		
	PROP/Active	12-09-2008		
American Interstate Insurance Company	CAS/Inactive	06-12-2000	12-24-2004	Inadequate Production
	PROP/Inactive	06-12-2000	12-24-2004	Inadequate Production
American States Insurance Company	CAS/Active	03-14-2001		
	PROP/Active	03-14-2001		
AmTrust Insurance Company of Kansas, Inc.	CAS/Inactive	07-18-2007	07-13-2009	Canceled
	PROP/Inactive	07-18-2007	07-13-2009	Canceled



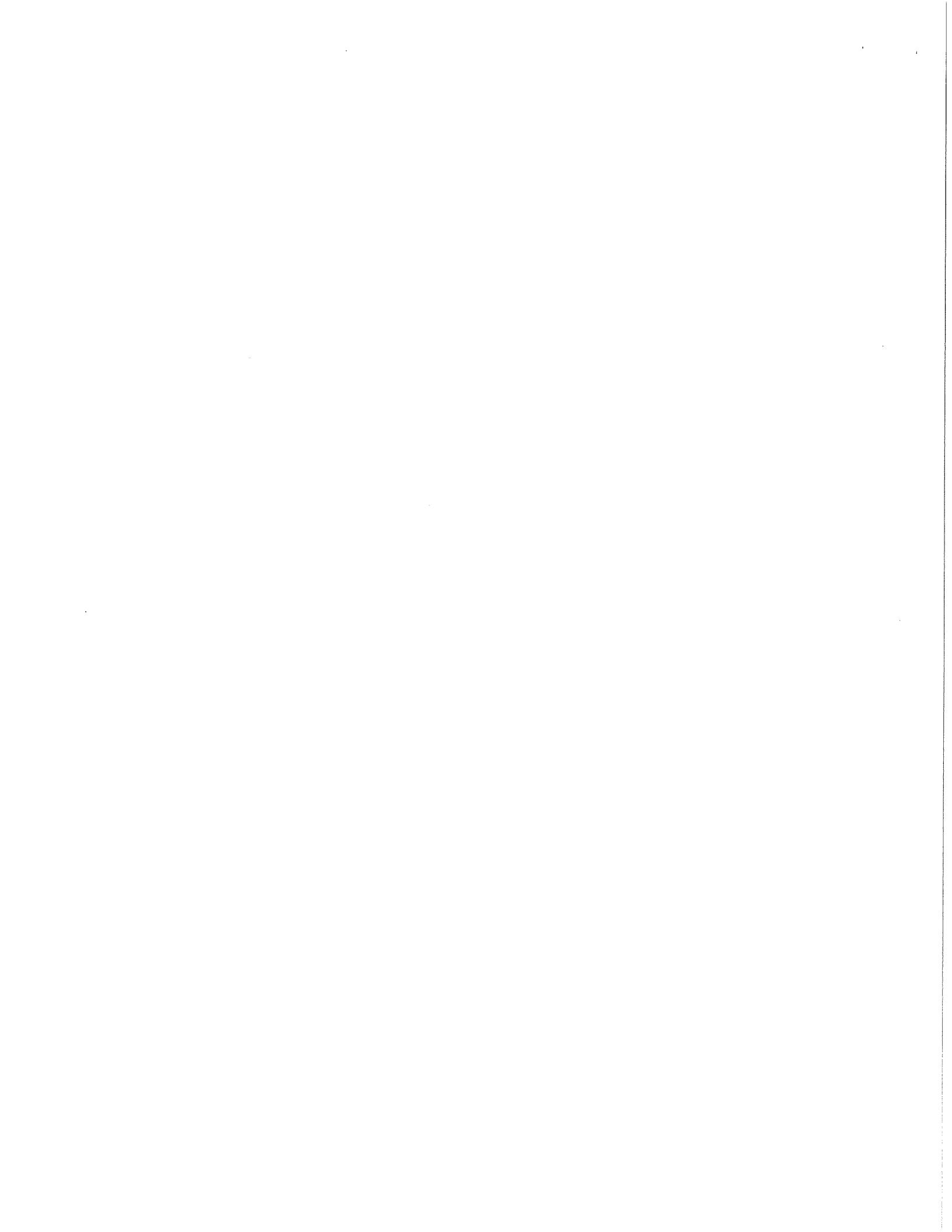
Assurance Company of America	CAS/Inactive	04-14-2000	10-19-2012	Vol. Surrender per Agent Rqst
	PROP/Inactive	04-14-2000	10-19-2012	Vol. Surrender per Agent Rqst
Austin Mutual Insurance Company	CAS/Inactive	11-04-2003	09-03-2009	Canceled
	PROP/Inactive	11-04-2003	09-03-2009	Canceled
Bituminous Casualty Corporation	CAS/Inactive	03-13-2000	08-16-2002	Canceled
	PROP/Inactive	03-13-2000	08-16-2002	Canceled
Bituminous Fire and Marine Insurance Company	CAS/Inactive	03-13-2000	08-16-2002	Canceled
	PROP/Inactive	03-13-2000	08-16-2002	Canceled
Capitol Indemnity Corporation	CAS/Inactive	04-23-2002	05-30-2007	Inadequate Production
	PROP/Inactive	04-23-2002	05-30-2007	Inadequate Production
Colonial American Casualty and Surety Company	CAS/Active	03-17-2000		
	PROP/Active	03-17-2000		
Connecticut Indemnity Company, The	CAS/Inactive	01-28-1999	02-10-2005	Canceled
	PROP/Inactive	01-28-1999	02-10-2005	Canceled
Continental Casualty Company	CAS/Active	05-23-2000		
	PROP/Active	05-23-2000		
Continental Insurance Company, The	CAS/Active	02-24-2006		
	PROP/Active	02-24-2006		
Emcasco Insurance Company	CAS/Inactive	03-17-2000	03-14-2001	Vol. Surrender per Agent Rqst
	PROP/Inactive	03-17-2000	03-14-2001	Vol. Surrender per Agent Rqst
Employers Mutual Casualty Company	AH/Inactive	03-17-2000	03-14-2001	Vol. Surrender per Agent Rqst
	CAS/Inactive	03-17-2000	03-14-2001	Vol. Surrender per Agent Rqst
	PROP/Inactive	03-17-2000	03-14-2001	Vol. Surrender per Agent Rqst
Farmers Automobile Insurance Association, The	CAS/Active	12-04-2002		
	PROP/Active	12-04-2002		
Fidelity and Deposit Company of Maryland	CAS/Active	05-04-2000		
	PROP/Active	05-04-2000		
Fidelity and Guaranty Insurance Company	CAS/Inactive	08-12-2003	12-06-2005	Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005	Inadequate Production



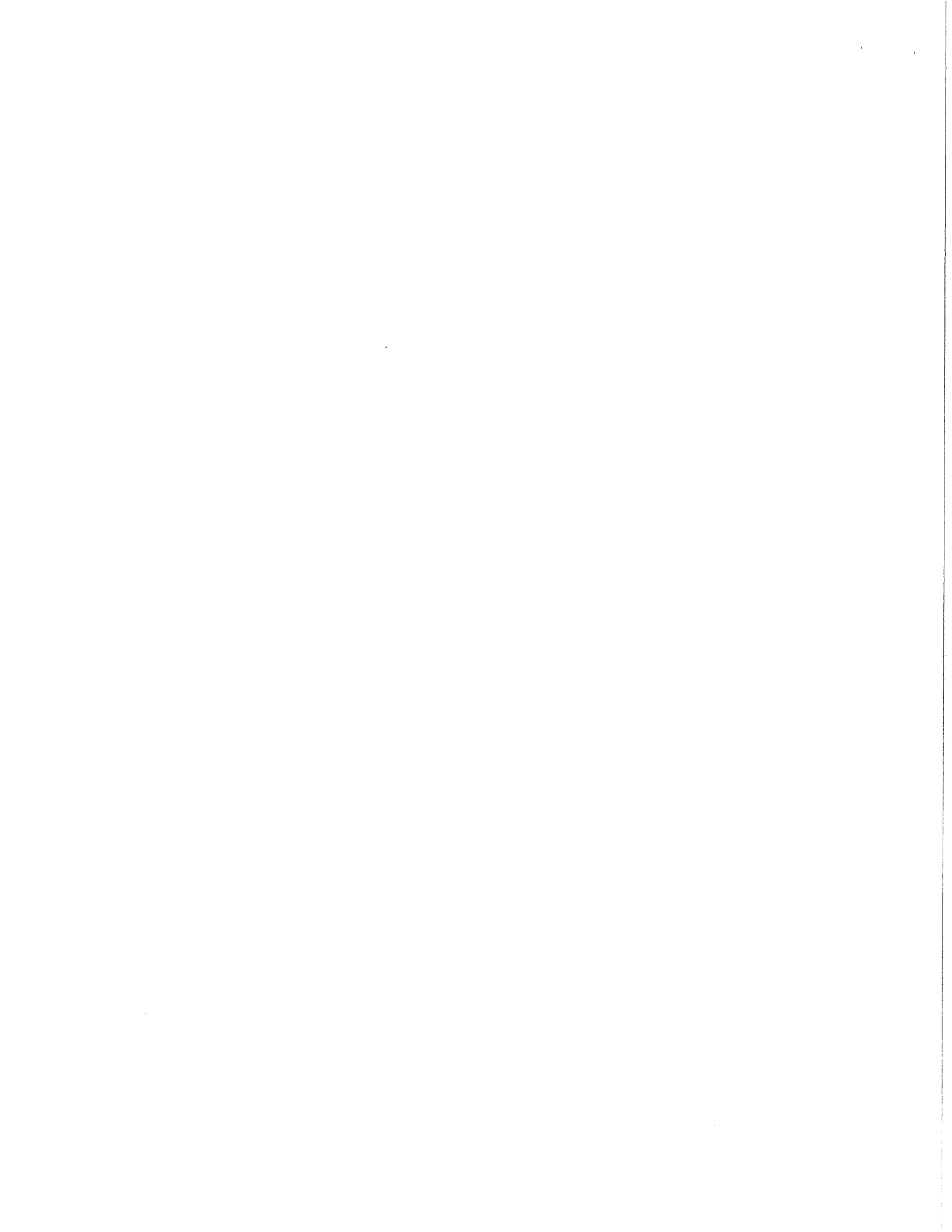
Fidelity and Guaranty Insurance Underwriters, Inc.	CAS/Inactive	08-12-2003	12-06-2005	Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005	Inadequate Production
Fire and Casualty Insurance Company of Connecticut, The	CAS/Inactive	01-28-1999	02-10-2005	Canceled
	PROP/Inactive	01-28-1999	02-10-2005	Canceled
First Liberty Insurance Corporation, The	AH/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	CAS/Inactive	12-12-2001	12-27-2005	Vol. Surrender per Agent Rqst
	CAS/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	PROP/Inactive	12-12-2001	12-27-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
First National Insurance Company of America	CAS/Active	03-14-2001		
	PROP/Active	03-14-2001		
Foremost Insurance Company Grand Rapids, Michigan	CAS/Active	11-26-2012		
	PROP/Active	11-26-2012		
Foremost Property and Casualty Insurance Company	CAS/Active	11-26-2012		
	PROP/Active	11-26-2012		
Foremost Signature Insurance Company	CAS/Active	11-26-2012		
	PROP/Active	11-26-2012		
General Casualty Company of Wisconsin	CAS/Active	04-06-2006		
	PROP/Active	04-06-2006		
General Insurance Company of America	CAS/Active	03-14-2001		
	PROP/Active	03-14-2001		
Guarantee Company of North America USA, The	CAS/Active	09-14-2010		
Liberty Insurance Corporation	AH/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	CAS/Inactive	12-12-2001	12-27-2005	Vol. Surrender per Agent Rqst
	CAS/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	PROP/Inactive	12-12-2001	12-27-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst



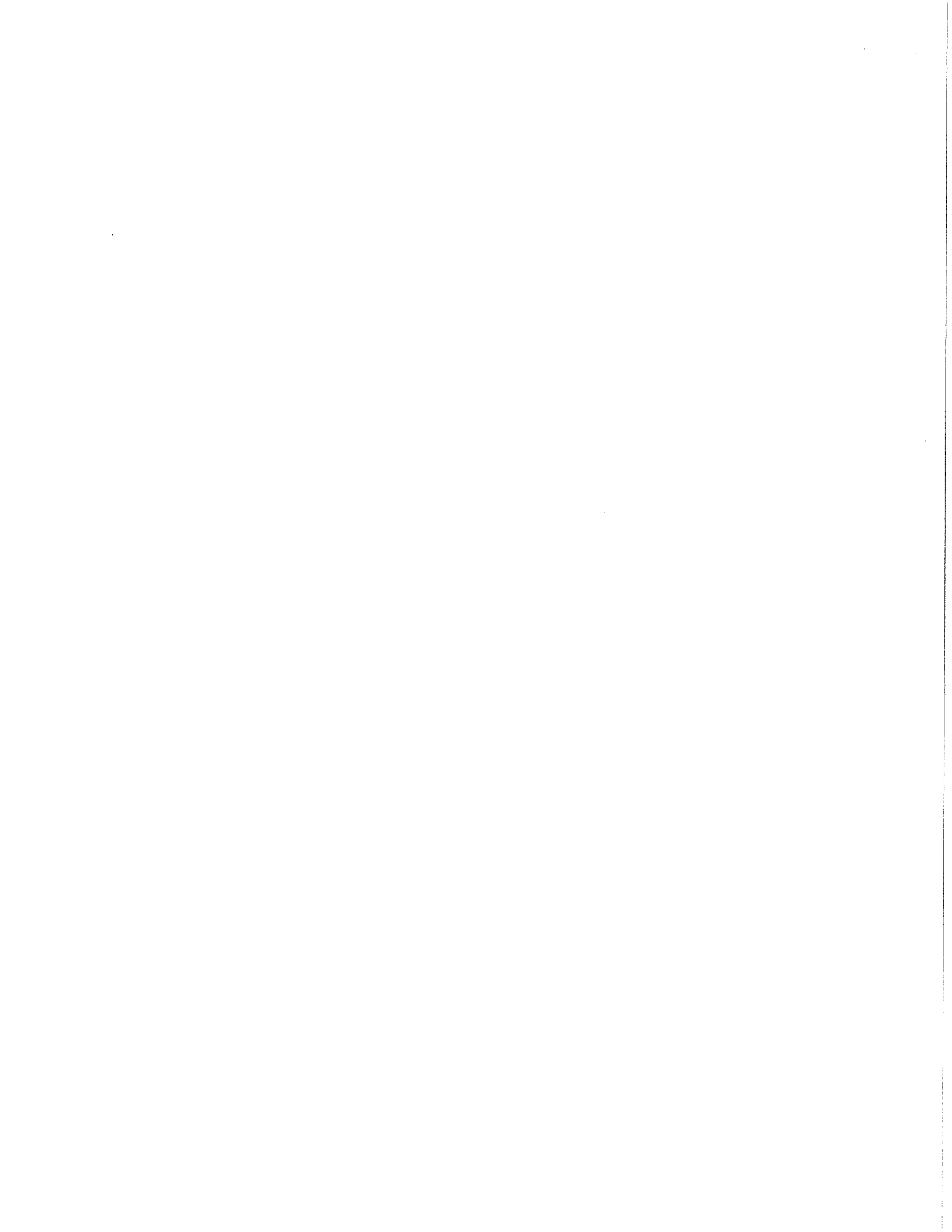
Liberty Mutual Fire Insurance Company	AH/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	CAS/Active	12-12-2001		
	CAS/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	PROP/Active	12-12-2001		
Liberty Mutual Insurance Company	PROP/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	AH/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	CAS/Active	12-12-2001		
	CAS/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
LM Insurance Corporation	PROP/Active	12-12-2001		
	PROP/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	AH/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	CAS/Active	12-12-2001		
Maryland Casualty Company	CAS/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	PROP/Active	12-12-2001		
	PROP/Inactive	06-08-1995	11-25-1997	Vol. Surrender per Agent Rqst
	CAS/Inactive	04-14-2000	10-19-2012	Vol. Surrender per Agent Rqst
Merchants Bonding Company (Mutual)	PROP/Inactive	04-14-2000	10-19-2012	Vol. Surrender per Agent Rqst
	CAS/Active	01-24-2001		
Merchants National Bonding, Inc.	CAS/Active	02-05-2013		
	CAS/Active	12-19-2012		
Meridian Security Insurance Company	PROP/Active	12-19-2012		
	CAS/Active	07-14-2006		
Michigan Commercial Insurance Mutual	CAS/Active	12-19-2012		
	PROP/Active	12-19-2012		
Milbank Insurance Company	CAS/Active	12-21-2005	07-13-2009	Canceled
	PROP/Inactive	12-21-2005	07-13-2009	Canceled
Milwaukee Casualty Insurance Co.	CAS/Inactive	12-21-2005	12-31-2008	Canceled
	PROP/Inactive	12-21-2005	12-31-2008	Canceled
Milwaukee Insurance Company	CAS/Inactive	12-21-2005	12-31-2008	Canceled
	PROP/Inactive	12-21-2005	12-31-2008	Canceled



National Fire Insurance Company of Hartford	CAS/Active	05-23-2000			
	PROP/Active	05-23-2000			
National Union Fire Insurance Company of Pittsburgh, Pa.	CAS/Inactive	05-29-2002	06-08-2004		Canceled
	PROP/Inactive	05-29-2002	06-08-2004		Canceled
Northern Insurance Company of New York	CAS/Inactive	04-14-2000	10-19-2012		Vol. Surrender per Agent Rqst
	PROP/Inactive	04-14-2000	10-19-2012		Vol. Surrender per Agent Rqst
Old Republic Insurance Company	CAS/Active	03-29-2000			
	PROP/Active	03-29-2000			
Old Republic Surety Company	CAS/Active	03-29-2000			
	PROP/Active	03-29-2000			
Pekin Insurance Company	CAS/Active	12-04-2002			
	PROP/Active	12-04-2002			
Progressive Northern Insurance Company	CAS/Inactive	12-14-2001	08-14-2006		Vol. Surrender per Agent Rqst
	PROP/Inactive	12-14-2001	08-14-2006		Vol. Surrender per Agent Rqst
Regent Insurance Company	CAS/Active	04-06-2006			
	PROP/Active	04-06-2006			
SAFECO Insurance Company of America	CAS/Active	03-14-2001			
	PROP/Active	03-14-2001			
Seaboard Surety Company	CAS/Inactive	08-12-2003	12-06-2005		Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005		Inadequate Production
SECURA INSURANCE, A Mutual Company	CAS/Active	03-28-2000			
	PROP/Active	03-28-2000			
SECURA Supreme Insurance Company	CAS/Active	03-28-2000			
	PROP/Active	03-28-2000			
Security Insurance Company of Hartford	CAS/Inactive	01-28-1999	09-07-2007		Vol. Surrender per Agent Rqst
	PROP/Inactive	01-28-1999	09-07-2007		Vol. Surrender per Agent Rqst
Security National Insurance Company	CAS/Inactive	07-18-2007	07-13-2009		Canceled
	PROP/Inactive	07-18-2007	07-13-2009		Canceled
Selective Insurance Company of America	CAS/Inactive	07-03-2000	05-12-2009		Vol. Surrender per Agent Rqst
	PROP/Inactive	07-03-2000	05-12-2009		Vol. Surrender per Agent Rqst



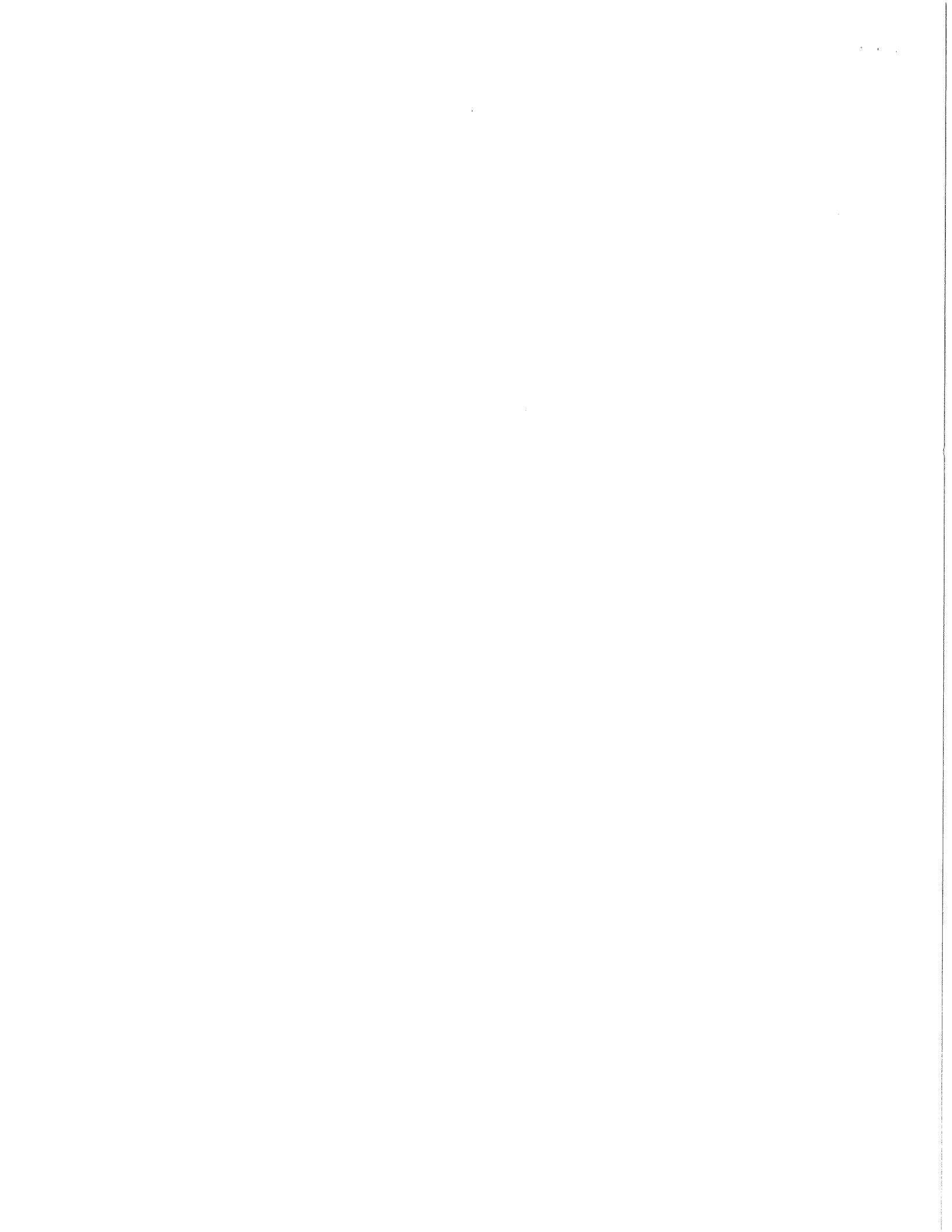
Selective Insurance Company of South Carolina	CAS/Inactive	07-03-2000	05-12-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-03-2000	05-12-2009	Vol. Surrender per Agent Rqst
Selective Insurance Company of the Southeast	CAS/Inactive	07-03-2000	05-12-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-03-2000	05-12-2009	Vol. Surrender per Agent Rqst
SFM Mutual Insurance Company	CAS/Inactive	10-28-2003	09-04-2008	Canceled
St. Paul Fire and Marine Insurance Company	CAS/Inactive	08-12-2003	12-06-2005	Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005	Inadequate Production
St. Paul Guardian Insurance Company	CAS/Inactive	08-12-2003	12-06-2005	Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005	Inadequate Production
St. Paul Mercury Insurance Company	CAS/Inactive	08-12-2003	12-06-2005	Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005	Inadequate Production
State Auto Insurance Company of Wisconsin	CAS/Active	12-19-2012		
	PROP/Active	12-19-2012		
State Auto Property and Casualty Insurance Company	CAS/Active	12-19-2012		
	PROP/Active	12-19-2012		
State Automobile Mutual Insurance Company	CAS/Active	12-19-2012		
	PROP/Active	12-19-2012		
Statewide Insurance Company	CAS/Inactive	03-07-2000	01-21-2004	Canceled
	PROP/Inactive	03-07-2000	01-21-2004	Canceled
Transcontinental Insurance Company	CAS/Inactive	05-23-2000	01-14-2008	Canceled
	PROP/Inactive	05-23-2000	01-14-2008	Canceled
Transportation Insurance Company	CAS/Active	05-23-2000		
	PROP/Active	05-23-2000		
Travelers Casualty and Surety Company of America	CAS/Active	04-29-2004		
	PROP/Active	04-29-2004		
U.S. Specialty Insurance Company	CAS/Active	03-19-2009		
United States Fidelity and Guaranty Company	CAS/Inactive	08-12-2003	12-06-2005	Inadequate Production
	PROP/Inactive	08-12-2003	12-06-2005	Inadequate Production
Valiant Insurance Company	CAS/Inactive	04-14-2000	12-05-2007	Canceled



	PROP/Inactive	04-14-2000	12-05-2007	Canceled
Valley Forge Insurance Company	CAS/Active	05-23-2000		
	PROP/Active	05-23-2000		
Western Surety Company	CAS/Active	04-22-2003		
Wilson Mutual Insurance Company	CAS/Active	09-29-2011		
	PROP/Active	09-29-2011		
Zurich American Insurance Company	CAS/Active	12-09-2008		
	PROP/Active	12-09-2008		
Zurich American Insurance Company of Illinois	CAS/Active	12-09-2008		
	PROP/Active	12-09-2008		

* Photocopies of this report provided to an insurer should be confirmed on-line for accuracy.

** NPN = National Producer Number assigned by the National Insurance Producer Registry to assist with nonresident licensing in the future.



\$4,486,541.00
FILE COPY

BID OF **SUPER EXCAVATORS, INC.**

2013

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

UNIVERSITY RELIEF STORM SEWER – PHASE 4

CONTRACT NO. 7009

IN

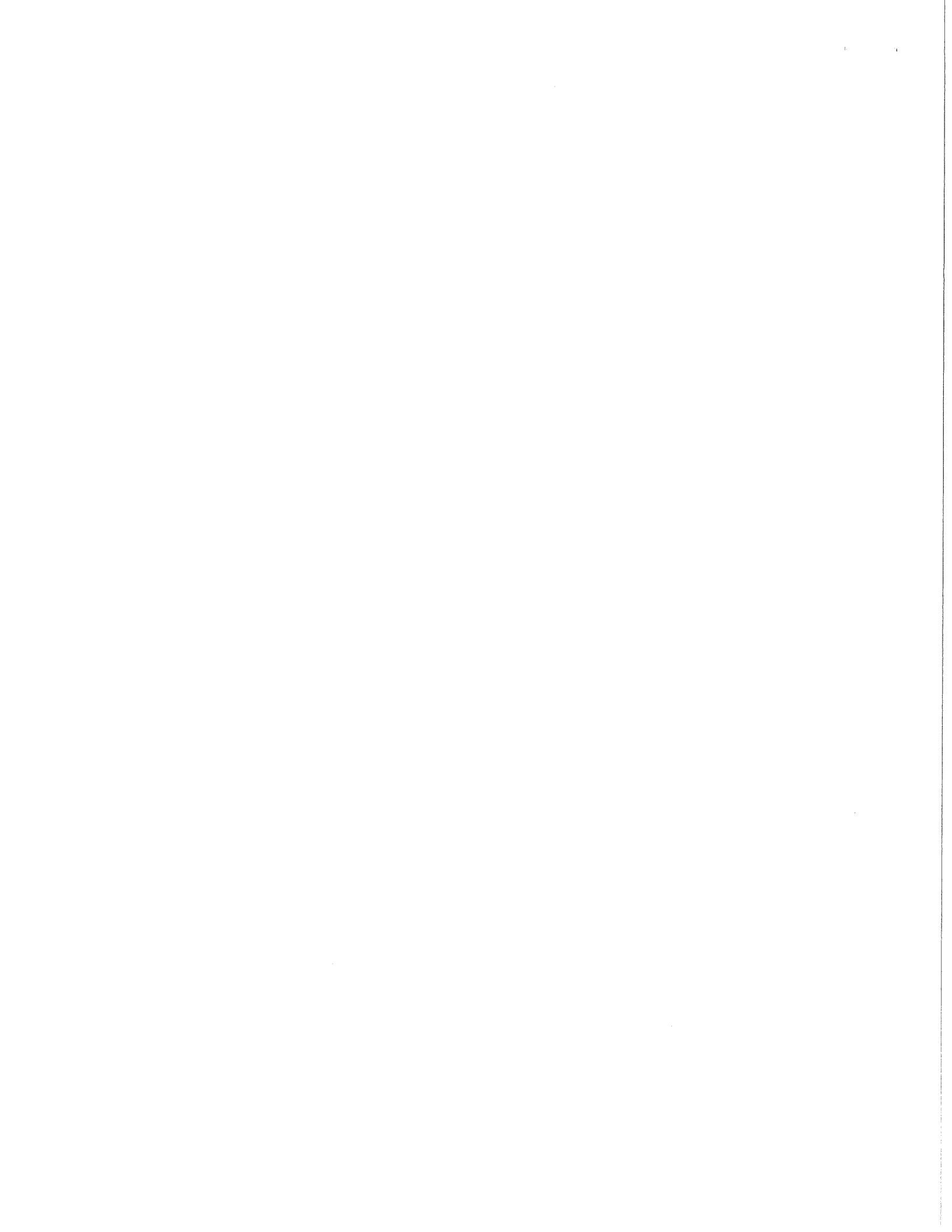
MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON **MARCH 19, 2013**

PLEASE RETURN PLANS AND SPECIFICATIONS TO:

**CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713**

www.cityofmadison.com/business/pw



**UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009**

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SECTION E: PROPOSALE-1

SECTION F: BID BOND..... F-1


SECTION G: AGREEMENT..... G-1

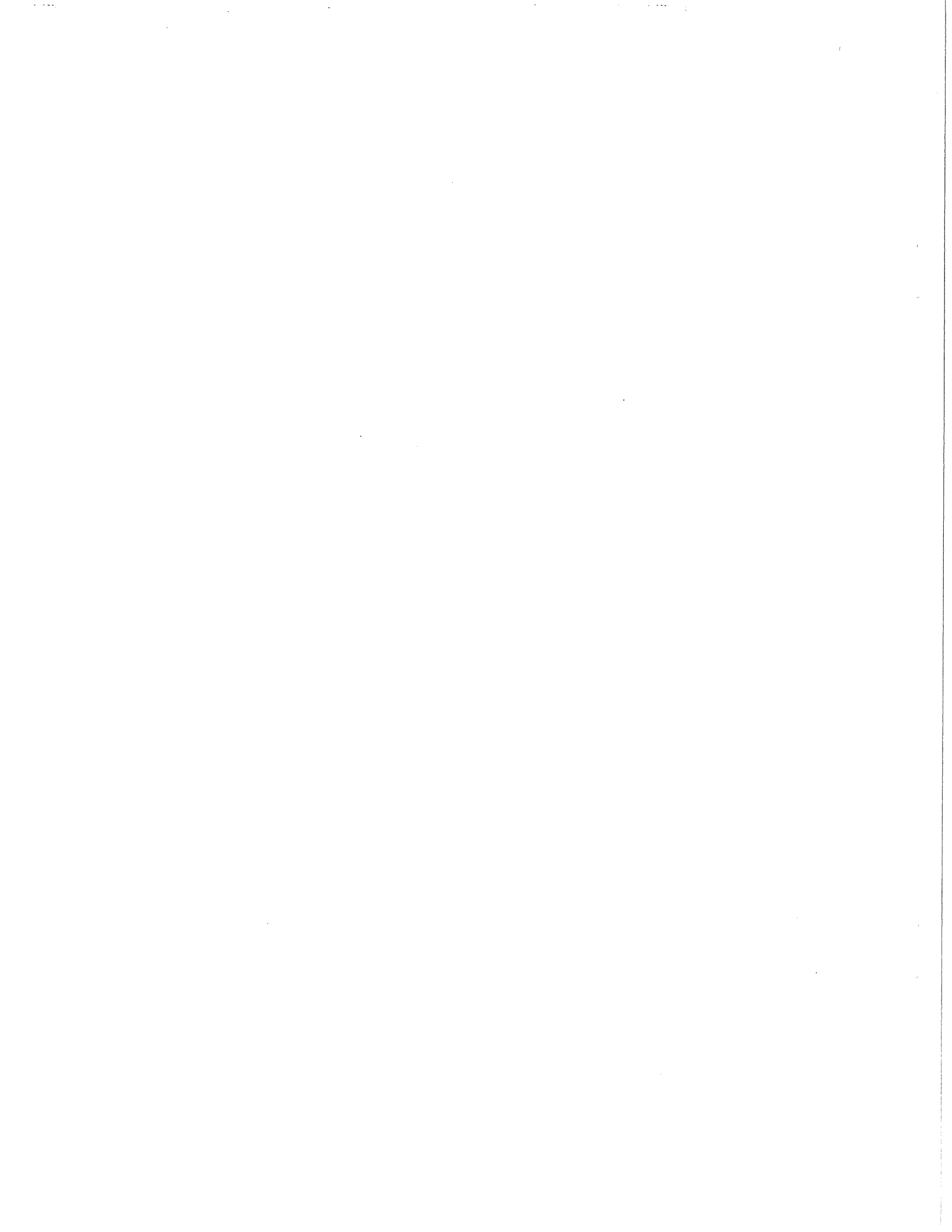
SECTION H: PAYMENT AND PERFORMANCE BOND H-1

SECTION I: PREVAILING WAGE RATE I-1

This Proposal, and Agreement have
been prepared by:

**CITY ENGINEERING DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN**


Robert F. Phillips, P.E., City Engineer



SECTION A: ADVERTISEMENT FOR BIDS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

CONTRACT NO.	PROJECT NAME:
7009	UNIVERSITY RELIEF STORM SEWER – PHASE 4
SBE GOAL	12%

Plans and Specifications are available at 1600 Emil Street, Madison, WI 53713; 608-267-1197 or on our website at www.cityofmadison.com/business/pw/contracts/openforBid.cfm.

PREQUALIFICATIONS

Bidders who have not been prequalified by the City Engineer and Affirmative Action Director for the period of February 1, 2013 to January 31, 2014 must submit their application on or before 1:00 p.m., FEBRUARY 22, 2013, Room 115, City-County Building, Madison, WI 53703. Postmark is not applicable. Contractors be prequalified by the City Engineer including an affirmative action plan approved by the Affirmative Action Director prior to the bid opening or the bid will be rejected. Forms are available at the same location or on our website at www.cityofmadison.com/business/pw/forms.cfm.

PRE-BID MEETING

A pre-bid meeting will be held on FEBRUARY 12, 2013 at 1:00 PM. Interested bidders can park at 2424 University Avenue, Madison WI (Best Western Plus InnTower). At the meeting we will walk the length of the project and Representatives of the Affirmative Action Department will be present to discuss the Small Business Enterprise requirements. This meeting will be held outside.

OTHER REQUIREMENTS

Sealed bids must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer.

Prevailing Wage Rates may be required and are attached in Section I of the contract. See Special Provisions to determine applicability.

Deadline for the Submittal of Bid is FEBRUARY 22, 2013 by 1:00 PM, at 1600 Emil Street, Madison, WI 53713.

Bid Opening will be on MARCH 1, 2013 at 1:30 PM at 1600 Emil Street, Madison, WI 53713.

REQUEST FOR BIDS FOR PUBLIC WORKS CONSTRUCTION FOR THE CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

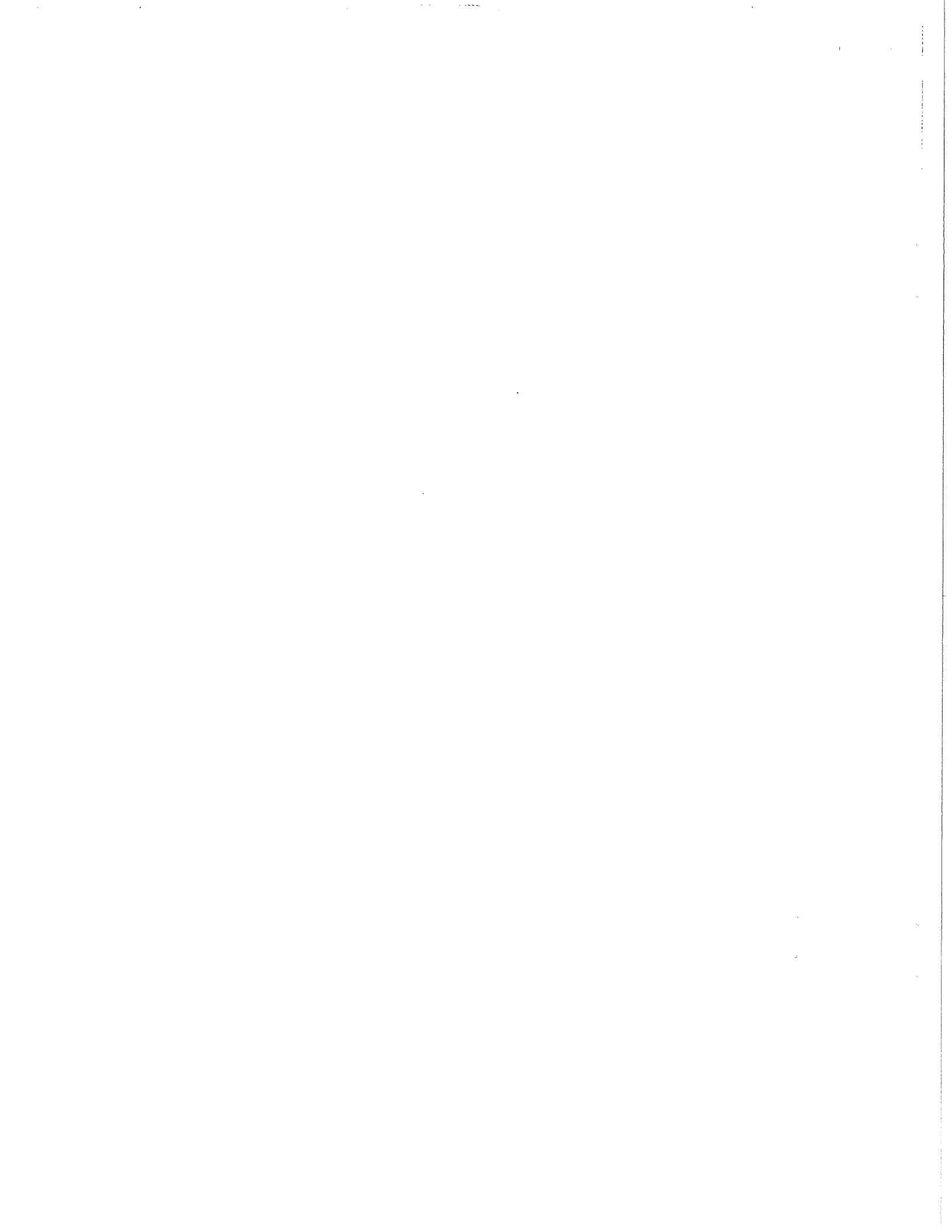
Plans and Specifications for Public Works Projects that are open for bid are available on the City of Madison website at <http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm> or by calling City Engineering at 608-266-4751.

Sealed bids must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer.

Prevailing Wage Rates may be required and are attached in Section I of the contract. See Special Provisions to determine applicability.

Bidders must be prequalified with the City Engineer and the Affirmative Action Director. Deadline date for submittal of application is noticed on our website. Forms are available on the web at <http://www.cityofmadison.com/business/pw/forms.cfm> or by contacting City Engineering at 608-266-4620

Publ. WSJ 2/1/2013 & 2/8/2013



SECTION B: INSTRUCTIONS TO BIDDERS

The City of Madison Standard Specifications for Public Works Construction - 2013 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website at www.cityofmadison.com/Business/PW/specs.cfm or by contacting City Engineering Division, Room 115, City-County Building, 210 Martin Luther King Jr. Blvd., Madison, WI 53703.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102 "**BIDDING REQUIREMENTS AND CONDITIONS**" and Article 103 "**AWARD AND EXECUTION OF THE CONTRACT.**" For the convenience of the bidder, below are highlights of three subsections of the specifications.

Section 102.1: Pre-Qualification of Bidders

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a). of the Madison General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms. The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the Madison General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

Section 102.4: Proposals

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of

which such corporation was chartered. The required signatures shall in all cases appear in the space provided therefore on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor. Proposals will be received at the place and until the hour on the date designated in the advertisement. When sent by mail, the sealed proposal marked as indicated above shall be enclosed in an additional envelope. Proposals sent by mail, submitted in person or otherwise delivered must be in the hands of the official conducting the letting by the hour on the date designated in the advertisement. Proposals received after the date designated will be returned to the bidder unopened.

The Bidder shall execute form ERD-7777 (R.9/03), a part of these proposal pages and submit same with the bidder's proposal, if applicable. REFER TO PROPOSAL SECTION.

Section 102.5: Bid Deposit (Proposal Guaranty)

No proposal shall be considered unless either (i) it is accompanied by a bid deposit of the character and amount described in the Advertisement for Bids or (ii) a biennial bid bond in an amount and form acceptable to the City of Madison has been previously submitted.

Bid deposits of unsuccessful bidders shall be returned following the award of the contract by the Common Council. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an

Building Demolition

- 101 Asbestos Removal
- 120 House Mover

- 110 Building Demolition

Street, Utility and Site Construction

- 201 Asphalt Paving
- 205 Blasting
- 210 Boring/Pipe Jacking
- 215 Concrete Paving
- 220 Con. Sidewalk/Curb & Gutter/Misc. Concrete Work
- 221 Concrete Bases and Other Concrete Work
- 225 Dredging
- 230 Fencing
- 235 Fiber Optic Cable/Conduit Installation
- 241 Horizontal Saw Cutting of Sidewalk
- 240 Grading and Earthwork
- 242 Infrared Seamless Patching
- 245 Landscaping, Maintenance
- 250 Landscaping, Site and Street
- 251 Parking Ramp Maintenance
- 255 Pavement Sealcoating and Crack Sealing
- 260 Petroleum Above/Below Ground Storage Tank Removal/Installation

- 265 Retaining Walls, Precast Modular Units
- 270 Retaining Walls, Reinforced concrete
- 275 Sanitary, Storm Sewer & Water Main Const.
- 280 Sewer Lateral Drain Cleaning/Internal TV Insp.
- 285 Sewer Lining
- 290 Sewer Pipe Bursting
- 295 Soil Borings
- 300 Soil Nailing
- 305 Storm & Sanitary Sewer Laterals & Water Svc.
- 310 Street Construction
- 315 Street Lighting
- 318 Tennis Court Resurfacing
- 330 Traffic Control During Construction
- 320 Traffic Signals
- 325 Traffic Signing & Marking
- 332 Tree Pruning/Removal
- 333 Tree, Pesticide Treatment of
- 335 Trucking
- 399 Other TUNNELING

Bridge Construction

- 501 Bridge Construction and/or Repair

Building Construction

- 401 Floor Covering (including carpet, ceramic tile installation, rubber, VCT)
- 402 Building Automation Systems
- 403 Concrete
- 404 Doors and Windows
- 405 Electrical - Power, Lighting & Communications
- 410 Elevator - Lifts
- 412 Fire Suppression
- 413 Furnishings - Furniture and Window Treatments
- 415 General Building Construction, Equal or Less than \$250,000
- 420 General Building Construction, \$250,000 to \$1,500,000
- 425 General Building Construction, Over \$1,500,000
- 428 Glass and/or Glazing
- 429 Hazardous Material Removal
- 430 Heating, Ventilating and Air Conditioning (HVAC)
- 433 Insulation - Thermal

- 435 Masonry
- 437 Metals
- 440 Painting and Wallcovering
- 445 Plumbing
- 450 Pump Repair
- 455 Pump Systems
- 460 Roofing and Moisture Protection
- 461 Solar Photovoltaic/Hot Water Systems
- 465 Soil/Groundwater Remediation
- 466 Warning Sirens
- 470 Water Supply Elevated Tanks
- 475 Water Supply Wells
- 480 Wood, Plastics & Composites-Structural & Architectural
- 499 Other _____

State of Wisconsin Certifications

- 1 Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
- 2 Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
- 3 Class 7 Blaster - Blasting Operations and Activities for structures greater than 15 ' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster".
- 4 Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
- 5 Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application:
<http://www.dhs.wisconsin.gov/Asbestos/Cert/Index.htm>. State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
- 6 Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture.
- 7 Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP).
- 8 Other _____

SECTION C: SBE

Instructions to Bidders City of Madison SBE Program Information

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.

To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

2.2 Contract Compliance

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at www.cityofmadison.com/dcr/aaTBDir.cfm.

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at www.cityofmadison.com/dcr/aaTBDir.cfm. Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.

- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.

2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder in a separate sealed envelope marked: **“ENVELOPE 2 - SBE COMPLIANCE REPORT.”** This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below shall be deemed non-responsible and the bidder ineligible for award of this contract.

- 2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

- 2.4.2.1.1 **Cover Page, Page C-7; and**
- 2.4.2.1.2 **Summary Sheet, C-8.**

- 2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

- 2.4.2.2.1 **Cover Page, Page C-7;**
- 2.4.2.2.2 **Summary Sheet, C-8; and**
- 2.4.2.2.3 **SBE Contact Report, C-9 and C-10. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)**

2.5 Appeal Procedure

A bidder which does not achieve the established goal and is deemed non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may, within 72 hours of receiving such notification, appeal that decision to a special appeals committee composed of three (3) members of the Affirmative Action Commission, three (3) members of the Board of Public Works and a seventh member appointed by the Mayor. All appeals must be made in writing to the City Engineer and received within 72 hours of City of Madison’s notice. Postmark not applicable.

2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

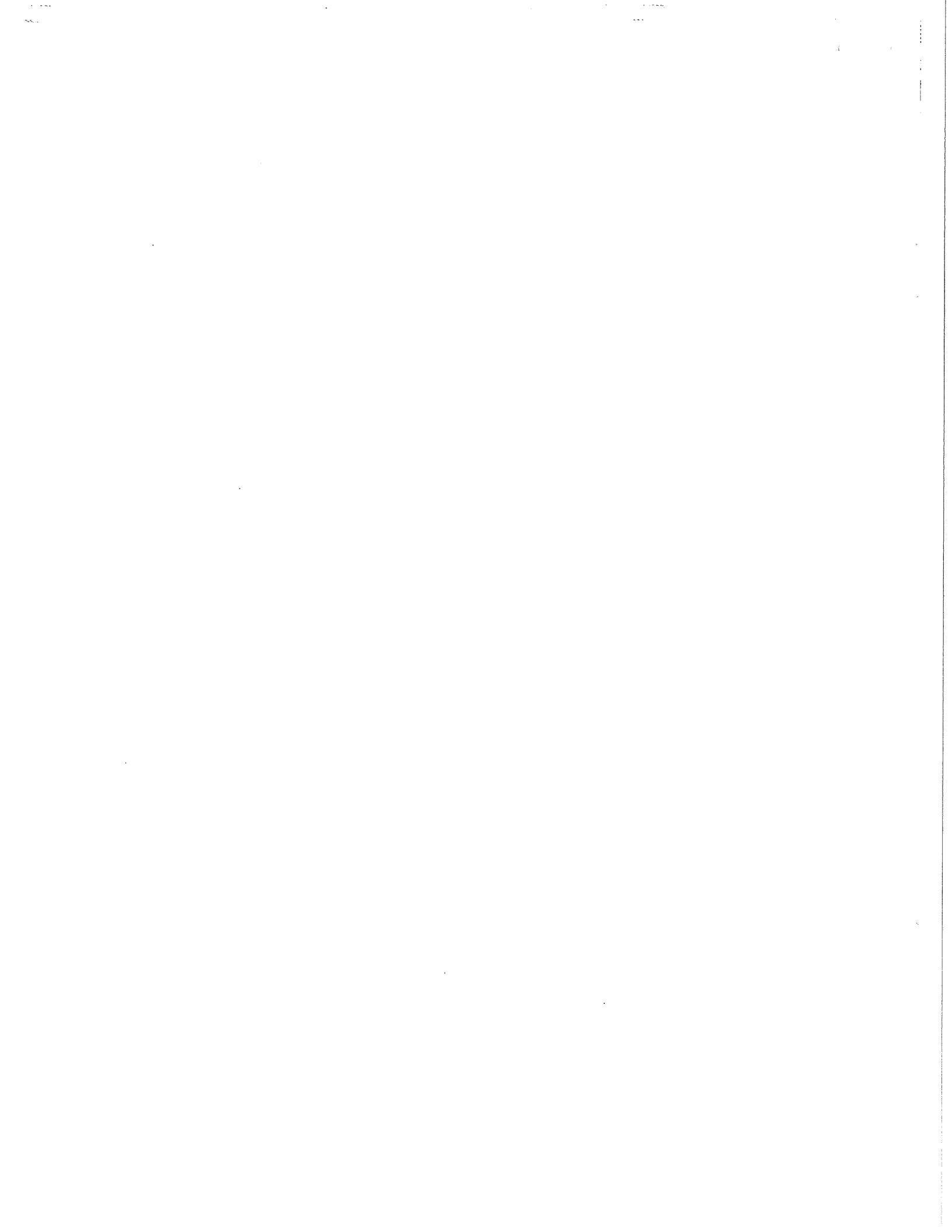
2.7 SBE Definition and Eligibility Guidelines

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

- A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.
- B. A business that has averaged no more than \$4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of \$1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.



UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009

Small Business Enterprise Compliance Report

Cover Sheet

This information MUST be submitted in a separate sealed envelope marked
“ENVELOPE NO. 2 - SBE COMPLIANCE REPORT.”

Prime Bidder Information:

Company: _____

Address: _____

Telephone Number: _____ Fax Number: _____

Contact Person/Title: _____

Prime Bidder Certification:

I, _____ of
Name Title

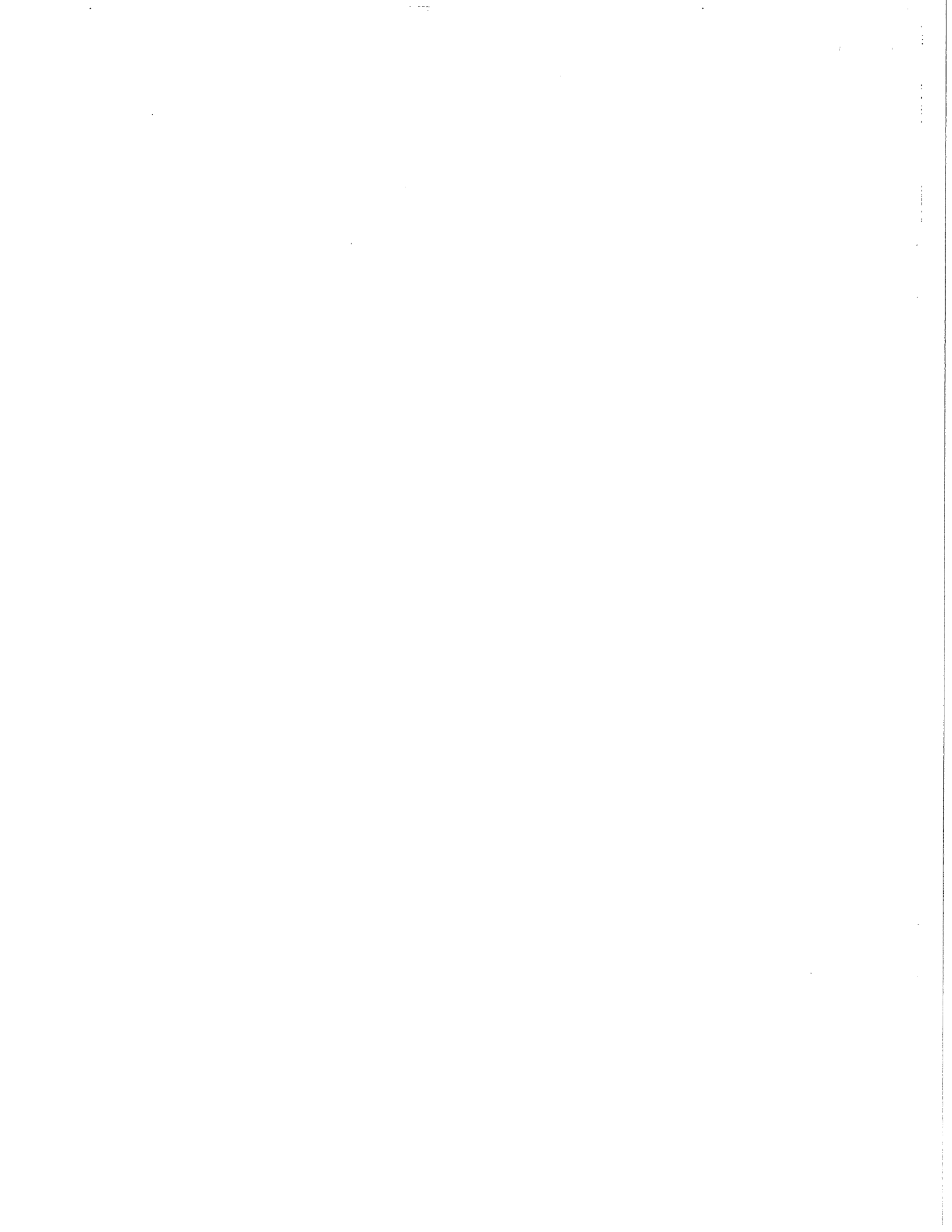
_____ certify that the information
Company

contained in this SBE Compliance Report is true and correct to the best of my knowledge and belief.

Witness' Signature

Bidder's Signature

Date



UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009

Small Business Enterprise Compliance Report

Summary Sheet

**This information MUST be submitted in a separate sealed envelope marked
“ENVELOPE NO. 2 - SBE COMPLIANCE REPORT.”**

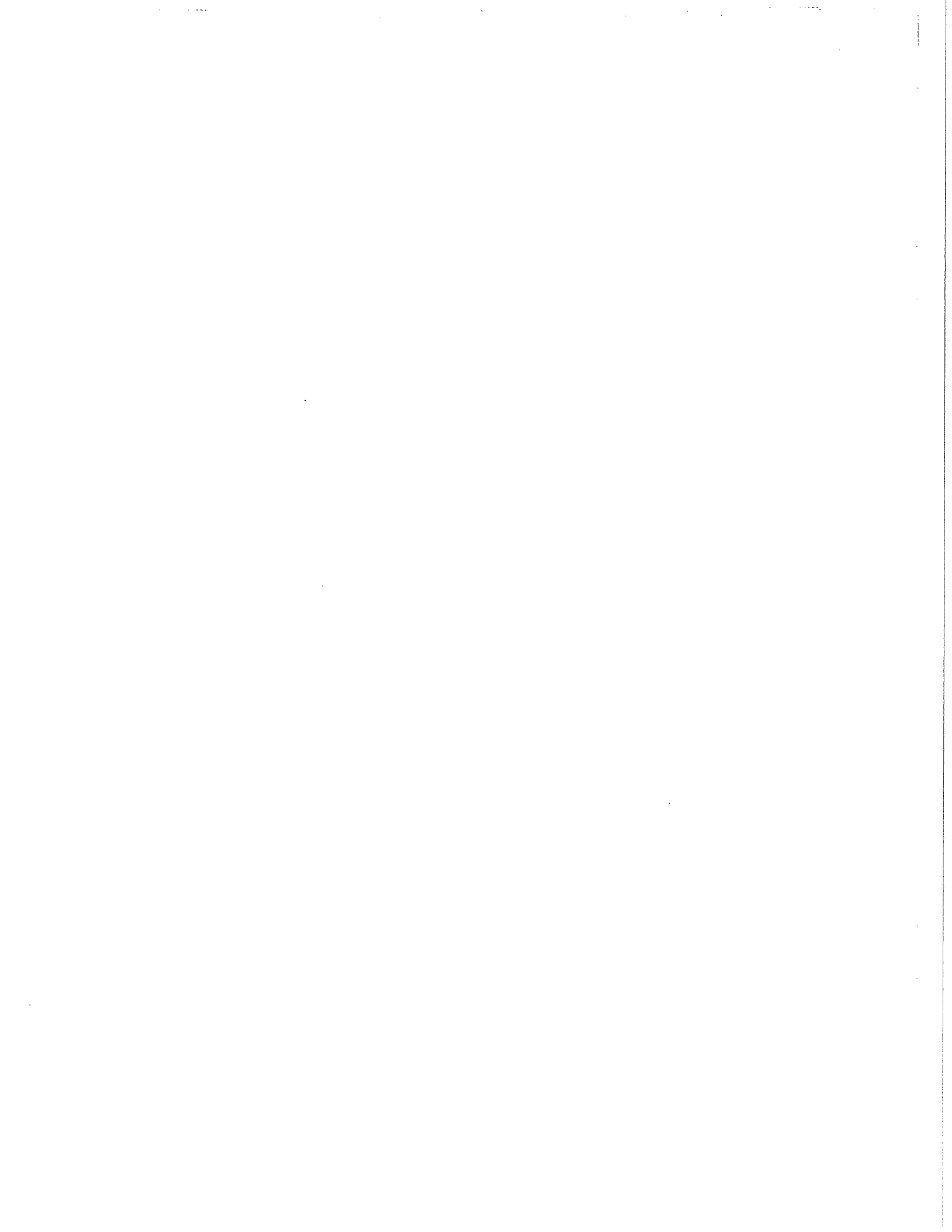
SBE SUBCONTRACTORS WHO ARE NOT SUPPLIERS

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
Subtotal SBE who are not suppliers:		_____ %

SBE SUBCONTRACTORS WHO ARE SUPPLIERS

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
Subtotal Contractors who are suppliers:		_____ % x 0.6 = _____ % (discounted to 60%)

Total Percentage of SBE Utilization: _____ %.



UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009

Small Business Enterprise Compliance Report

SBE Contact Report

This information MUST be submitted in a separate sealed envelope marked
“ENVELOPE NO. 2 - SBE COMPLIANCE REPORT.”

Submit separate copy of this form for each SBE which you are not able to utilize towards meeting the SBE goal for this project. Attach separate sheets if necessary.

SBE Information:

Company: _____

Address: _____

Telephone Number: _____

Contact Person/Title: _____

1. Outline below all efforts to solicit a bid from the above SBE. Include date, means of contact, who from your company made this contact and the result.

2. Describe the information provided to the aforementioned SBE regarding the scope of work for which he/she was to provide a bid.

Is this the same scope of work on which the subcontractor you intend to utilize based his/her bid?

Yes No

3. Did this SBE submit a bid? Yes No

4. Is the General Contractor pre-qualified to self-perform this category of work?

Yes No

5. If you responded "Yes" to Question 3, please check the items below which apply and provide the requested detail. If you responded "No" to Question 3, please skip ahead to item 6 below.

The SBE listed above is unavailable for work on this project for the following reasons. Provide specific detail for this conclusion.

The SBE listed above is unqualified for work on this project. Provide specific details for this conclusion.

The SBE listed above provided a price that was unreasonable (i.e. more than 5% above the lowest bidder). Provide specific detail for this conclusion including the SBE's price and the price of the subcontractor you intend to utilize.

A contract with the SBE listed above may constitute a breach of the bidder's collective bargaining agreements. Provide specific detail for this conclusion including, but not limited to, correspondence from the SBE indicating it will not sign a project labor agreement and/or correspondence from the applicable trade union indicating a project labor agreement will not be allowed at the time of project bidding.

Other; please specify reason(s) other than listed above which made it impossible for you to utilize this SBE on this project.

6. Describe any other good faith efforts:

SECTION D: SPECIAL PROVISIONS

UNIVERSITY RELIEF STORM SEWER – PHASE 4 CONTRACT NO. 7009

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.1: PREQUALIFICATION OF BIDDERS

All City of Madison contracts require contractors to be prequalified with the City prior to bid opening. All bidders shall be familiar with Article 102 of the Standard Specifications. The Contractor or Contractors bidding on this project shall be prequalified under Item 399, Tunneling AND either Item 275 Sanitary, Storm Sewer, and Water Main Construction, or Item 310 Street Construction. If two contractors intend to bid this work jointly, the Contractor performing the tunneling work shall be prequalified to do so, and the Contractor performing the street construction shall be prequalified to do so. Section 510.2 describes the requirements for prequalification for Item 399, Tunneling.

SECTION 102.10: MINIMUM RATE OF WAGE SCALE

For this project, payment of prevailing wages (white sheet) is not required if either: a single trade accounts for 85% or more of the total labor costs of the project and the bid is less than \$48,000; or no single trade accounts for 85% or more of the total labor costs of the project and the bid is less than \$100,000. For bids not meeting either of these conditions, prevailing wages shall be required.

If required, the wages and benefits paid on the contract shall not be less than those specified in the Prevailing Wage Determination included with these contract documents for the following types of work:

- Building and Heavy Construction
- Sewer, Water, and Tunnel Construction
- Local Street and Miscellaneous Paving Operations
- Residential and Agricultural Construction

All bidders are notified that all labor employed on City contracts must be paid in accordance with the minimum rate of wage scale included in the Contract Documents.

For the information of the employees working on the project, a copy of the wage scale included in the contract documents and the provisions of Section 66.0903(8) of the Wisconsin Statutes shall be kept posted by the employer and in at least one conspicuous and easily accessible place at the site of the project.

The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of each employee who worked on such City project and all other projects the employee worked in the same period, and the Contractor must keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. Such records shall, in addition, set forth the

full weekly wages earned by each such employee and the actual hourly wage paid to that employee. The Contractor shall submit payroll records to the Engineer every week for those periods when work is being done on the project. Said submittal shall be within twenty-one (21) calendar days of the end of the Contractor's weekly pay period.

The Contractor shall ensure that employees shall be paid unconditionally and shall receive the full amounts accrued at the time of payment, computed at rates not less than those stated in the City of Madison "Minimum Rate of Wage Scale" and that each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to such employee. Questions regarding an employee's classification or rate of pay within that classification, shall be resolved by the practice that predominates in the industry and on which the trade or occupation rate/classification is based. Therefore, rate of pay, classification and work jurisdiction disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determinations by appropriate recognized trade unions operating within the City of Madison.

The Contractor shall agree that the normal rate of wage paid to the Contractor's employees on other projects shall not be reduced or otherwise diminished as a result of the requirement to pay no less than the minimum rate of wage scale on a City project. Mulcting of employees on City projects by contractors, such as by kickbacks or other such devices, is prohibited.

These contract provisions shall apply to all work performed on the contract by the Contractor with its own organization and with assistance of laborers under its immediate superintendency and to all work performed by piecework or by subcontract. No laborer, worker, or mechanic shall be employed directly upon the site of the work except on a wage basis, but this shall not be construed to prohibit the rental of equipment from individuals.

In the event of a refusal by the Contractor to submit payroll records as required by the contract, the City of Madison shall have the option to cancel this contract and request the Surety to perform or to relet the balance of the work for bids, and in that event, to charge the Contractor for any loss which the City may incur thereby.

SECTION 102.12: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$53,000 for a single trade contract; or equal to or greater than \$257,500 for a multi-trade contract pursuant to MGO 33.07(7).

SECTION 102.9 BIDDER'S UNDERSTANDING

A pre-bid meeting will be held on Wednesday, February 12th, 2013 at 1:00pm. The meeting will be held on-site. Contractors may park in the parking lot of the Best Western Plus InnTowner, located at 2424 University Avenue. The initial meeting location will be on the northeast corner of the Highland Avenue and University Avenue intersection. During this meeting, interested contractors will have the opportunity to walk the project and ask questions. The meeting will not be rescheduled due to inclement weather. This meeting will be held outside.

Location:	2424 University Avenue, Madison WI (Best Western Plus InnTowner)
Date:	February 12, 2013
Time:	1:00 PM

ARTICLE 103: AWARD AND EXECUTION OF THE CONTRACT

The Contractor shall execute the signing of this contract completely prior to March 19, 2013. No exceptions or extensions to the above date will be permitted.

ARTICLE 104 SCOPE OF WORK

This project will consist of installing 1252 feet of 96-inch diameter storm sewer pipe. The installation shall be completed via tunneling; the special provisions are included in this document. The Contractor shall install a launching pit on Walnut Street, as shown on the plan set, and receiving pits on Highland Avenue and Campus Drive.

This contract also includes two (2) separate street reconstruction/resurfacing locations. The work shall consist of removing and replacing concrete curb and gutter, sidewalk and drive aprons, excavation cut, concrete pavement removal, crushed aggregate base course and/or pulverizing and resurfacing the roadway, as noted in the specifications and on the plans. The Contractor shall utilize excess pulverized material in all undercut areas, where approved by the Engineer. The Contractor shall be required to remove excess pulverized asphalt from the construction site to meet the proposed profile of the streets provided; no additional compensation will be given for the removal of excess pulverized material. Additional storm sewer installation will occur with the street resurfacing and reconstruction projects.

- **Highland Avenue** – University Avenue to Campus Drive.

Work shall include removing concrete pavement and installing approximately 5" of crushed aggregate base course. Curb & gutter, sidewalk and drive aprons shall be replaced where necessary; The street will be surfaced with 5.25" of 19/12.5 mm, type E-3 asphaltic pavement.

- **Walnut Street** – University Avenue to Campus Drive.

Curb & gutter, sidewalk and drive aprons shall be replaced where necessary; the existing pavement shall be pulverized, shaped and resurfaced with 4" of 19/12.5 mm, type E-1 asphaltic pavement.

The Contractor shall view all sites prior to bidding to become familiar with the existing conditions. It will be the responsibility of the Contractor to work with the utilities located in the right of way to resolve conflicts during the construction process.

SECTION 104.1 LANDS FOR WORK

The City of Madison is in the process of acquiring the necessary easements for pipe installation. The Contractor shall not begin work until all easements have been obtained. If easements are not obtained, and work is postponed, the City will make no compensation for the change in schedule.

SECTION 105.1: AUTHORITY OF THE ENGINEER

The Engineer shall resolve all questions which arise as to the quality and acceptability of materials furnished, work performed, manner of performance, rate of progress of the work, interpretation of the plans and Specifications, acceptable fulfillment of the contract, compensation, and disputes and mutual rights between Contractors under the Specifications. The Engineer shall determine the amount and quantity of work performed and materials furnished.

All decisions of the Engineer shall, when so requested, be rendered in writing. They shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor applies in writing to the Board of Public Works for a review of such decision.

Any change proposed by a Contractor in SBE subcontractors, vendors or suppliers from those SBEs indicated on the SBE Compliance Report must be approved by the Engineer and the City's Manager of the Affirmative Action Division (hereafter, AAD). When requested, such decision shall be rendered in writing. Such decisions shall be final and conclusive in all matters unless within ten (10) days after such decision the Contractor or the affected SBE applies in writing to the Board of Public Works for a review of such decision.

In the event the Engineer and the AAD disagree over the proper decision to be made regarding an SBE, the Mayor shall appoint a third person to resolve the disagreement, within 30 days of appointment. The decision thus rendered may be reviewed by the Board of Public Works upon request of the Contractor or the affected SBE as set forth in Sections 105.1 and 105.2 of the City's standard specifications.

SECTION 105.12 COOPERATION BY CONTRACTOR

The Contractor shall attend up to four meetings in person in Madison, Wisconsin prior to the start of construction. The meetings will serve to coordinate the details of the construction project and may involve utilities, regulators, City staff, local businesses, and residents. Attendance at these meetings shall be considered incidental to Bid Item 10911 Mobilization.

The Contractor shall use care around existing trees, plantings, fences, walls, steps and driveways that are indicated on the plans to remain. Damage to these items during construction shall be repaired or replaced at the Contractor's expense. No trees, other than those shown on the plan to be removed, shall be cut without the approval of the Engineer and the City Forester; the abutting property owners shall be notified in accordance with the City's Administrative Procedure Memorandum No. 6-2.

The Contractor shall maintain access for property owners, mail delivery and garbage/recycling pickup for all properties in the project area. City Traffic Engineering crews will be replacing traffic signal loops after the grinding and before the paving on Highland Ave and on Walnut St.

The Contractor shall coordinate installation of any loop detectors and conduit with Traffic Engineering. The Contractor shall notify City Traffic Engineering Electrical Section (Fritz Wenger, 266-4767), 48 hours prior to final paving.

Cost to repair damage to traffic signal loops that occur after their installation due to Contractor negligence, and cost for extra work to install the traffic signal loops in newly paved streets due to improper notice to the Traffic Engineering Division, will be deducted from the contract.

SECTION 107.2 PROTECTION AND RESTORATION OF PROPERTY

The Contractor shall work within the limits of the easements shown in the plan set. At no time shall the Contractor work or store materials outside of the right-of-way or depicted easements. The Contractor shall limit construction activities and storage within easements if the public right-of-way is a suitable alternative.

The narrow North-South, temporary easement at 2208 University Avenue (Don the Car Care Man) shall only be used as access for passenger vehicles to the receiving pit on Campus Drive. The Contractor shall

coordinate use of this easement with on-site management. The Contractor shall not remove the business' parking or limit business access within this segment of the easement. This easement is only intended to allow the Contractor alternative access to the receiving pit on Campus Drive, should it be necessary.

The Contractor shall perform pre and post construction Crack and Damage Surveys per Bid Item 90042.

If private property is altered or damaged within the easements, it shall be repaired to original conditions or better. Partial removals of fences, retaining walls, etc shall be restored with identical material. If fences are removed, they shall be removed completely or removed to a junction point. If identical material, or material that is an acceptable match to the property owner cannot be found, the structure shall be removed in its entirety and replaced with a similar material that is acceptable to the property owner.

SECTION 107.4(d) UMBRELLA LIABILITY INSURANCE

The Contractor shall procure and maintain during the life of this contract Umbrella Liability coverage at least as broad as the underlying Commercial General Liability, Business Automobile Liability and Employers Liability with minimum limits of \$10,000,000 per occurrence and aggregate. Procuring and maintaining this insurance coverage for the life of the contract shall be paid under Bid Item 90001.

SECTION 107.6 DUST PROOFING

The Contractor shall take all necessary steps to control dust arising from operations connected with this contract. When ordered by the Engineer, the Contractor shall dust proof the construction area by using power sweepers and water. Dust proofing shall be incidental with operations connected with this contract.

SECTION 107.7 MAINTENANCE OF TRAFFIC

The Contractor shall be responsible for installing and maintaining traffic control in accordance with the provided Traffic Control Plan and as directed by the City Traffic Engineer. The traffic control plan may need to be altered as conditions change in the field or as unexpected conditions occur. This may include relocating existing traffic control or providing additional traffic control. The Contractor shall install and maintain any necessary modifications or additions to the traffic control, as directed by the City Traffic Engineer, at no cost to the City.

All traffic control shall conform to Part VI of the Federal Highways Administrations "Manual on Uniform Traffic Control Devices" (MUTCD), the State of Wisconsin Standard Facilities Development Manual (including Chapter 16 – Standard Detail Drawings) and the City of Madison Standards for sidewalk and bikeway closures.

One changeable message sign shall be installed on Highland Ave south of Campus Dr, facing northbound traffic for the one week prior to the lane closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "HIGHLAND AVE LANE CLOSURE BEGINS SUNDAY 4/14, EXPECT DELAY".

One changeable message sign shall be installed on Highland Ave north of Campus Dr, facing southbound traffic for the one week prior to the lane closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "HIGHLAND AVE LANE CLOSURE BEGINS SUNDAY 4/14, EXPECT DELAY".

One changeable message sign shall be installed on Walnut St south of Campus Dr, facing northbound traffic for the one week prior to the road closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "WALNUT ST CLOSURE BEGINS SUNDAY 4/14, PLAN ALTERNATE ROUTE".

One changeable message sign shall be installed on Walnut St north of Campus Dr, facing southbound traffic for the one week prior to the road closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "WALNUT ST CLOSURE BEGINS SUNDAY 4/14, PLAN ALTERNATE ROUTE".

One changeable message sign shall be installed on University Ave west of Walnut St, facing eastbound traffic for the first week during the Walnut St closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "WALNUT ST CLOSED AT CAMPUS DR".

One changeable message sign shall be installed on University Ave east of Walnut St, facing westbound traffic for the first week during the Walnut St closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "WALNUT ST CLOSED AT CAMPUS DR".

One changeable message sign shall be installed on Campus Dr west of Walnut St, facing eastbound traffic for the one week prior to the lane closure. The sign shall read as follows or as otherwise directed by the City Traffic Engineer: "CAMPUS DR LANE CLOSURE BEGINS SUNDAY 6/2, EXPECT DELAY".

UP TO ONE additional portable changeable message sign may be needed for the duration of construction. The location and language for the sign shall be determined at the pre-construction meeting. The sign may need to be relocated during the project as conditions change or as they are needed in other locations in the project. The language on the sign may need to be changed.

The Contractor shall consider relocating the changeable message signs and changing sign languages incidental to providing the changeable message signs.

During phase 1 of Highland Ave construction (tentative dates: 4/14/2013-7/14/2013), the west half of Highland Ave can be closed to through traffic within the project limits for the duration of the project. One lane each direction shall be maintained on the east half of Highland Ave under the Campus Dr Bridge. Two lanes each direction shall be maintained on Highland Ave north of Campus Dr. A ten (10) foot wide left-turn lane shall be maintained for traffic turning from southbound Highland Ave to eastbound University Ave. Local and emergency vehicle access to all properties shall be maintained at all times. The east sidewalk on Highland Ave shall be open at all times, and the contractor shall stage construction in such a way that the west sidewalk on Highland Ave can be open to pedestrian traffic as much as possible. Proper signage shall be used to close the sidewalk when it is necessary to close the west sidewalk.

During phase 2 of Highland Ave construction (tentative dates: 7/15/2013-7/21/2013), the east half of Highland Ave can be closed to through traffic within the project limits for the duration of the project. One lane each direction shall be maintained on the west half of Highland Ave under the Campus Dr Bridge. Two lanes each direction shall be maintained on Highland Ave north of Campus Dr. A ten (10) foot wide left-turn bay with a minimum length of forty (40) feet shall be maintained for traffic turning from southbound Highland Ave to eastbound University Ave. Local and emergency vehicle access to all properties shall be maintained at all times. Both sidewalks on Highland Ave shall remain open at all times.

Total lane closure time on Highland Ave shall be minimized and no more than ninety-eight (98) days.

Walnut St may be closed to through traffic within the project limits for the duration of the project. The total closure time shall be minimized and no more than four (4) months (tentative dates: 4/14/2013-8/14/2013). Local and emergency vehicle access to all properties shall be maintained at all times. The west sidewalk shall remain open at all times.

Walnut St shall be opened up for the Crazylegs Classic event on Saturday, 4/27/2013. A minimum width of fourteen (14) feet of clean and safe street surface shall be maintained for the event use, per Bid Item 90034.

Eastbound Campus Dr can be closed to one lane within the project limits for the duration of the project. The total closure time shall be minimized (tentative dates: 6/2/2013-8/14/2013). No work shall encroach into or impact any of the open traffic lanes on Campus Dr during peak traffic hours (7:00 AM – 9:00 AM and 3:00 PM – 6:00 PM, weekdays) and on days with special events.

No work shall encroach into or impact traffic lanes on University Ave during peak traffic hours (7:00 AM – 9:00 AM and 3:00 PM – 6:00 PM, weekdays) and on days with special events.

Prior to the start of each construction phase at Highland Ave-Campus Dr intersection, City of Madison Traffic Engineering will install temporary traffic signals to accommodate the new traffic pattern after each traffic switch. The Contractor shall coordinate with Traffic Operations Shop (Mike Christoph at 266-9031) for temporary signal installation, a minimum of ten (10) working days prior to each traffic switch at Highland Ave-Campus Dr intersection.

Highland Ave north of this project will be reconstructed by University of Wisconsin and its contractors starting from late summer 2013. There may be a short period of time towards the end of this project during which the two project timelines overlap. In the event that the schedules of the two projects overlap, the Contractor may have to adjust traffic control, to coordinate with UW's project and as directed by the City Traffic Engineer, at no additional cost to the City.

Type A warning lights shall be installed on all barricades used in the project per State of Wisconsin S.D.D. 15C2-4B. Contractor shall also place Type C warning lights on any barrels used to taper traffic or lane closures.

The work areas shall be backfilled, plated, or protected by traffic control devices during non-working hours. If steel plates are used, the Contractor shall notify the City of Madison Streets Division, 266-4681, one (1) working day prior to placement of the plates.

The Contractor shall provide ADA/Handicap Accessible pedestrian access at all intersections within the construction area at all times.

Access to all driveways within the project limits shall be provided at all times. Interruption of access to a property, which is necessary for the construction of this project, shall be granted only after discussion(s) with the affected property owner(s)/occupant(s) and only for times and durations which will minimize impact on the property owner(s)/occupant(s).

The Contractor may remove parking within the project limits as indicated on the Traffic Control Plan. The Contractor shall be responsible for posting and maintaining NO PARKING signs in accordance with City of Madison Police Department's "Guidelines for Temporary No Parking Restrictions for Construction or Special Events".

No construction equipment or materials shall be stored in the roadway or street right-of-way that is open to traffic during non-working hours. Construction equipment and materials are not to be stored within the street right-of-way that is outside the project limits as shown on the approved plan.

Traffic Control will be measured as a lump sum. Payment for Traffic Control is full compensation for constructing, assembling, painting, hauling, erecting, re-erecting, maintaining, restoring, and removing traffic signs, drums, barricades, and similar control devices. Electronic arrow boards shall be considered incidental to Bid Item 10701 Traffic Control. Electronic message boards shall be paid for as a separate bid item.

Contact Yang Tao, Traffic Engineering Division, (608) 266-4815 or ytao@cityofmadison.com, with any questions concerning these traffic control specifications.

SECTION 107.8 NOTIFICATION WHEN CLOSING STREET

The Contractor shall not remove traffic signs. For removal or replacement of traffic and parking signs, contact the City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767, 8:00 a.m. to 4:00 p.m., a minimum of twenty-four (24) hours in advance of when any existing signs need to be removed. This service is provided free of charge. If the Contractor removes the signs, the Contractor will be billed for the reinstallation of, and any damage to, the signing equipment.

SECTION 107.10 OPENING OF SECTION OF HIGHWAY TO TRAFFIC

Upon completion of all concrete work, final surface course of pavement, landscaping, topsoil, seed or sod, the City Construction Engineer shall certify that it is complete and shall contact the City of Madison Traffic Operations Section, 266-4767. The City of Madison Traffic Engineer shall have seven (7) working days to complete the signing and marking so that the street is ready to open to traffic. The Contractor shall leave all barricades in place until such time that the permanent pavement marking and signing has been installed by the City. The City shall notify the Contractor when the final pavement marking and signing is complete and the Contractor shall remove all temporary construction signs and barricades within 24 hours of the notification.

SECTION 109.2 PROSECUTION OF THE WORK

The Contractor shall begin operations on or before APRIL 14, 2013 and shall permanently open Highland Avenue, Walnut Street, and Campus Drive by AUGUST 12, 2013. Finish work outside of the drive lanes may be completed after August 12, 2013, but must be completed by August 31, 2013. The Contractor shall not impede vehicle traffic in any way between August 14-16, 2013.

Work shall begin only after the start work letter is received. If it is desirable to begin work before the above-mentioned date, the Contractor shall establish a mutually acceptable date with the City Engineer (contact the Construction Engineer at 266-4089). The Contractor shall be required to limit workdays to 7:00 PM and work shall not be performed on holidays.

The Contractor shall open Walnut Street on April 27, 2013 for the CrazyLegs road race. At a minimum, a 14-foot wide section of Walnut Street shall be paved with asphalt or concrete. This shall be a finished surface and free from any trip hazards. If equipment or materials are stored on Walnut Street on April 27, 2013, they shall be segregated from the runners by a fence. If uneven surfaces are left outside of the 14-foot paved lane, they shall be segregated from runners by a fence. See Bid Item 90034 for complete requirements

The anticipated schedule of work will begin with utility work occurring on Walnut Street. As indicated on the plan set, the Contractor will be responsible for moving the water main and protecting the telecommunications duct. The large gas main will be moved by Madison Gas and Electric. Utility work

will occur jointly between April 14 and 26. During this time, the Contractor shall share the Walnut Street right-of-way with other contractors and utility crews.

Due to a conflict with a City fiber optic cable that runs parallel with Campus Drive, the anticipated order of completion will be to tunnel from Walnut Street to Highland Avenue first. The fiber optic cable will be rerouted by others to University Avenue during this time. After the relocation of the fiber optic line is complete, the Contractor shall tunnel from Walnut Street to Campus Drive. For questions regarding the relocation of the fiber optic cable, contact Yang Tao at (608) 266-4815 or ytao@cityofmadison.com.

The Contractor shall use the Walnut Street Right of Way as the only launching pit. The pit will be limited to the dimensions shown on the plan set. The pits within Highland Avenue and Campus Drive shall be limited only to receiving pits. The dimensions of these pits shall be the minimum necessary to retrieve tunneling equipment and construct the storm sewer structures. The Contractor shall use Walnut Street as the primary lay-down area for the project.

The Contractor shall notify the City Engineer (contact the Construction Engineer at 266-9091) a minimum of 48 hours prior to the desired start date. The Engineer shall schedule a pre-construction meeting prior to the start of construction.

SECTION 109.5 METHODS AND EQUIPMENT

The Contractor shall inspect and certify, in writing, that all sewer access points are free of debris when he/she leaves each site. If there is any debris in the sewer access point that the Contractor feels is not his/her responsibility, he/she shall promptly bring it to the attention of the Construction Engineer before beginning work.

SECTION 109.9 LIQUIDATED DAMAGES

The fixed agreed liquidated damages for failure to complete the entire project in the time frame specified in section 109.2 shall be computed in accordance with section 109.9 of the Standard Provisions. The fixed, agreed and liquidated damages for failure to permanently open Highland Avenue, Walnut Street, and Campus Drive by August 12, 2013 shall be \$1155.00 per calendar day for each day in which Highland Ave, Walnut Street or Campus Drive remain unopened. Liquidated damages shall not be cumulatively applied. The maximum fixed, agreed and liquidated damages for failure to complete any work herein specified shall be \$1155.00 per calendar day.

SECTION 210.1 EROSION CONTROL

Material stored at the project site, for use as backfill material shall be stored in such a manner that will not result in runoff of stockpiled material into streets or drainage facilities in the event of rain. Excavated materials and imported backfill materials stored on street and sidewalk pavements shall be removed from the street and sidewalk pavements by hand shoveling at the end of the period, not to exceed one work day.

Inlet Protection is bid with this project – it is expected to be in place prior to any work commencing on the projects and to be maintained throughout the project. This project is subject to web inspection protocol and the City Inspector shall be completing weekly inspection of the control practices and directing maintenance activities.

**SECTION 403.21 REMOVE AND REPLACE CONCRETE CURB AND GUTTER-
RESURFACING**

Most of the curb and gutter will be standard TYPE A curb and gutter. If the Contractor encounters curb and gutter that is not the typical TYPE A curb and gutter, they will be required to remove and replace in kind, unless directed otherwise by the Engineer, at no additional cost or compensation. It shall also be noted that Concrete curb and gutter shall be installed abutting existing sidewalk. It is expected that the sidewalk remain in place and not be disturbed. The Contractor shall install the curb without a form on the back of curb and no additional compensation shall be made for this work.

ARTICLE 500 SEWER AND SEWER STRUCTURES GENERAL

STORM SEWER GENERAL

Storm sewer work will consist of the installation of large and small storm sewer mains at the grades and lengths shown on the plan set. This work will require storm water control to maintain existing storm sewer flow throughout the project. The Contractor shall work with the Construction Engineer to maintain existing storm water conveyance for the duration of the project. There is currently no flow in the existing 96-inch storm pipe. This pipe will not be put into service until the installation of the proposed 96-inch pipe has been completed.

Reconnection of existing pipes at new structures, or new pipes at new structures, shall be considered part of the work required to construct the new structure or to construct the new sewer pipe and shall not be rewarded with additional compensation. However, if the structure being removed is larger than the new structure, thus requiring additional pipe, the new pipe shall be paid under the appropriate bid item and the connection of the old pipe to the new pipe shall be accomplished with a concrete collar.

Where a new structure is to be constructed at an existing pipe, it is expected that the Contractor shall saw cut the existing pipe in the required location to accommodate the placement of the new structure. If the Contractor, for his or her convenience, deems it more suitable to remove the existing pipe to a full joint, the additional pipe and concrete collar required to reconnect to the new structure shall be the Contractor's responsibility and shall not be compensated.

If there are structures where the pipe walls are to be poured into the structure roof, or both the pipe walls and the structure casting are to be poured into the structure roof, the Contractor shall not be provided additional compensation for complying with the structure requirements detailed on the storm sewer chart and plans.

Precast structures are only allowed where field poured structures are not specifically called for, and no precast structures are allowed until ULO's are completed and approval of the Engineer has been received.

ARTICLE 510 TRENCHLESS INSTALLATION OF 96-INCH STORM SEWER PIPE

510.1 Description

Work under this section provides for the trenchless installation (tunneling) of 96-inch diameter storm sewer pipe. Installation shall be completed with a methodology that maintains a stable or pressurized excavation face and minimizes soil loss. The pipe installation, when completed, shall provide a water tight pipe of the specified alignment, slope, and depth shown in the plan set.

The Contractor shall be responsible for all aspects of the tunneling operations, including selection of appropriate tunneling equipment, proper construction of launching and receiving pits, ground stabilization, and pipe installation.

510.2 Contractor and Personnel Experience

The Contractor and all sub-contractors shall be prequalified per City of Madison procedures prior to bid opening. To become prequalified to perform tunneling operations the Contractor and their staff shall document, to City Engineering, the qualifications defined in the following paragraphs:

510.2(a) Project Superintendent

The Project Superintendent shall have completed a minimum of five tunnel installations, each with a minimum drive length of 700 linear feet of installed pipe between 60 inches and 96 inches diameter. One documented drive shall be equal to or greater than the longest drive length proposed for this project. The Project Superintendent shall be able to document experience with tunneling equipment similar to that proposed for this project. All documented experience shall have occurred within the past 8 years. At least one of the referenced projects shall include installation and use of an Intermediate Jacking Station, if an Intermediate Jacking Station is proposed for this project.

The Project Superintendent shall also have a minimum of five years experience installing pit shoring systems of similar type and equal complexity to the system proposed for this project. The Superintendent shall have completed a minimum of five successful installations of pit shoring systems that are of a similar type and equal complexity to the system proposed for this project.

510.2(b) Tunnel Boring Machine (TBM) Operator

The TBM Operator shall have successfully completed a minimum of seven installation projects, each with a minimum drive of 700 linear feet of installed pipe between 60 inches and 96 inches diameter. The TBM Operator shall be able to document experience with tunneling equipment similar to that proposed for this project. All documented experience shall have occurred within the past 10 years. Additionally, the TBM Operator shall have experience installing the same pipe material and size as proposed for this project, and shall have successfully completed one drive length equal to or greater than the longest drive length proposed for this project. The TBM Operator shall have successfully completed a project in similar subsurface ground conditions. If an Intermediary Jacking Station is proposed, the TBM Operator shall document applicable experience.

510.2(c) Professional Engineer

The Contractor or Tunneling Sub-Contractor shall employ a Professional Engineer licensed by the State of Wisconsin, with a documented experience record demonstrating qualifications for the designs and calculations to be performed. The PE responsible for tunneling design shall submit an experience record that includes the five most recent tunneling projects, including the name of project, contracting agency for the project, name of general contractor, and project specifics.

The PE responsible for the design of the pit shoring system shall submit an experience record that documents a minimum of five years experience in the design of the proposed pit shoring system to be used on this project. The PE shall have designed a minimum of five successful pit shoring systems for projects of equal type, size, and complexity as the proposed project.

510.2(d) Registered Land Surveyor

The Contractor or Tunneling Sub-Contractor shall employ a Registered Land Surveyor licensed by the State of Wisconsin with a documented experience record demonstrating underground surveying experience, including the transfer of points and line from surface to below surface. The submitted

experience record shall include the five most recent tunneling projects, including the name of project, design tolerance, results of record survey, contracting agency for the project, and name of general contractor.

510.2(e) TBM Rebuilder

If the Contractor proposes using rebuilt tunneling equipment, the Contractor shall supply a written letter from the original machine manufacturer certifying the Machine Rebuilder is authorized to refurbish and recondition the TBM.

510.2(f) Pit Shoring System Installer

The Contractor shall employ or contract personnel with not less than three years experience in the installation of similar systems of equal complexity as the proposed system. The shoring system installer shall have documented experience with a minimum of three successful installations of shoring systems of similar type and equal complexity to the proposed system.

510.3 Submittals

With the exception of the prequalification submittals (which shall be approved prior to bid opening), or unless otherwise specified, the Contractor shall produce all submittals a minimum of 15 working days prior to the start of construction. The City Engineer will review the submittals and provide a written approval or request for clarification within five working days of receipt.

510.3(a) Methodology and Procedures

General

The Contractor shall submit a detailed plan describing the construction methodology and sequence of operations, including proposed tunneling equipment, proposed pit shoring systems, set-up within pits, general work site plan, method of muck removal and disposal, disposal locations, methods of protection and maintenance of the project site, and surface water and groundwater control methods. The Contractor shall also submit a detailed site safety plan.

Launching and Receiving Pits

The Contractor shall submit a plan showing the overall layout of launching and receiving pits, including general site layout at each pit location, locations of control cabin, back up plant, material storage areas, stockpile areas, muck containment area, and location of all ancillary equipment. Within each pit, the Contractor shall show locations of the laser guidance equipment, jacking equipment, tunneling equipment, pumps, pipes, cables, and entrance/egress locations.

The Contractor shall submit a detailed plan of the pit shoring system that is stamped and signed by a Professional Engineer who meets the requirements defined in Section 510.2. The pit shoring system plan shall define the proposed system, including, location, layout, depth, extent of different types of support relative to existing features or proposed structures, and methods and sequence of installation. List all equipment anticipated for pit and pit shoring system installation. The Contractor shall state the minimum safe lateral distance from the shoring system for vehicles, equipment, and stockpiles.

If the Contractor proposes the use of a tieback system, the plan shall include tieback installation procedures and criteria for acceptance of tiebacks based on performance and proof tests.

The Contractor shall submit a detailed plan for groundwater control and storm water management at each pit location.

The Contractor shall include a detailed plan showing thrust block design, including calculations. If soil augmentation or keying the thrust block is necessary, these details shall be included in the plan. The Contractor shall be fully responsible for ensuring thrust block design produces uniform deflection, will not impart excessive force on the shaft, and will not damage the jacking frame.

Plan review by the City will be for informative purposes only. The Contractor retains full responsibility for the design and installation of the pit shoring system, thrust block, and pit dewatering.

The Contractor shall submit a monitoring plan and schedule that will monitor both ground vibration and ground deformation adjacent to the excavations. The monitoring plan shall include procedures and locations for vibration monitoring equipment, deformation monitoring points and inclinometers, and observation wells/piezometers if necessary.

Pipe Installation

The Contractor shall submit an extensive and detailed plan of tunneling operations. Plan review by the City will be for informative purposes only. The Contractor shall retain full responsibility for adequate design and successful installation of the 96-inch storm pipe. The plan shall explain the following items:

1. Launch Procedure, including modifications to the shoring through the first pipe in ground, any soil augmentation required, and a detailed plan of the entrance seal
2. Ventilation System Details, proving it is adequate and that air exchange within the tunnel is capable of controlling air quality, temperature, and maintaining proper function between the laser and target
3. Electrical System Details, including lighting details and power generation or supply details
4. Grade and Alignment Control System Details, including mounting details, monitoring plan, and the method of grade and alignment adjustments.
5. Jacking System Details, including estimated jacking force, intermediate jacking stations and their proposed spacing if applicable, method of operation, thrust capacity, and sleeve details. The Contractor shall also submit a plan detailing the method of control to prevent exceeding the maximum allowable jacking force.
6. Lubrication and Contact Grout Procedure, including the mix and equipment to be used for lubricating the pipe during jacking operations, and grouting the pipe post installation. This submittal shall also include:
 - All Material Safety Data Sheets (MSDS)
 - Volume estimation that considers annular space and anticipated soils
 - Grout and lubricant port locations
 - Estimated pressures
 - Details demonstrating that the lubrication system shall have sufficient pressure and volume for lubrication to perform as intended
 - Proposed methodology for preventing inadvertent returns as well as damage to pipe
 - Sample lubrication and grout log sheet including time, date, sampler, pit location, pipe number, slurry additives type, quantity added, soil type, viscosity, specific gravity, water added, and system operating pressures and volumes.

7. Groundwater Management Plan, including a detailed plan describing groundwater control provisions for the tunneling equipment.
8. Retrieval Procedure, detailing the process required for readying the pit and tunneling equipment when the TBM is within 10 feet of the receiving pit or earlier. The plan shall include descriptions of any required shoring modifications necessary for receiving the TBM and when these modifications are to be in place. The plan shall detail the exit seal and the methods for guiding TBM into the seal.

510.3(b) Equipment

It is anticipated that an Earth Pressure Balance Tunnel Boring Machine is the most suitable equipment for this operation. However, the Contractor may propose alternative tunneling technologies, provided that the excavation face can be maintained at all times based on the anticipated soil conditions.

Tunnel Boring Machine

The Contractor shall submit documentation stating the type and size of the proposed TBM, including documentation from the TBM manufacturer proving that the selected machine is capable of performing adequately within the anticipated soil conditions as described in the contract documents. For used equipment, the Contractor shall provide certification in writing from the machine rebuilder proving the equipment has been refurbished or reconditioned to meet the requirements for project conditions, including live traffic loads. The Contractor shall submit descriptions of four similar projects on which a similar system by the same manufacturer has been used. Documentation proving adequacy shall include, but not be limited to, motors, jacks, hydraulics, mechanical components, bearings, seals, and electrical equipment. Include qualifications of machine rebuilder, if applicable.

Jacking System

The Contractor shall submit documentation on the proposed jacking equipment, including manufacturer's literature and proof that the proposed system is capable of generating the necessary forces, and applying them uniformly to the pipe.

Spoils Handling

The Contractor shall submit information detailing the spoils handling equipment that will be used on site. This shall include details and manufacturer's literature on conveyance systems and slurry separation systems (if necessary).

Survey and Guidance System

The Contractor shall submit information detailing the proposed survey and guidance systems.

510.3(c) Materials

The Contractor shall provide detailed information for all materials brought to the site. The documentation shall include, where applicable, MSDSs, manufacturer's literature, testing documentation, and information detailing proper storage and handling. The Contractor shall provide to the Construction Engineer adequate documentation showing that materials meet the standards defined in Section 510.4 of the Special Provisions.

510.3(d) Construction

The Contractor shall submit a daily log of the jacking operations at intervals of not more than one pipe length. The log shall contain the following information:

- Position of tunneling machine in relation to the design line and grade
- Jacking forces exerted on pipe at each jacking station
- Date, starting time, and finish time of the jacking operation
- Inclination
- Cutter head torque
- Slurry flow rates in both the supply (charge) and return (discharge) lines (if applicable)
- Slurry chamber pressure (if applicable)
- Spoils generated vs. anticipated spoils
- Position of steering jacks
- Amount of lubricant used (in gallons), its viscosity and pumping pressure
- Volume of spoil removed from the site
- Number of pipes installed or distance tunneled
- Important observations, e.g. settlement

The Contractor shall also submit a log of ground vibration and deformation monitoring data, including horizontal and vertical movements of geotechnical instruments and ground water readings.

510.3(e) Contingency Plan

The Contractor shall submit a contingency plan that provides detailed plans should the following occur:

- Damage to pipe structural integrity and repair
- Obstructions
- Steering corrections
- Loss of ground
- Inflows at the shafts
- Slurry migration to the ground surface
- Excessive thrust wall deflection
- Excessive settlement or heave

510.4 Materials

The Contractor shall be responsible for transporting and storing all project materials in accordance with manufacturer's or supplier's recommendations. All materials shall be stored within the project limits as defined on the plan set.

Any materials found to be defective shall be immediately marked, "DEFECTIVE – NOT FOR USE". The markings shall be clear from any point of view and shall be permanent. The Contractor shall transport defective material off-site for disposal.

510.4(a) Steel

All steel used in the construction of proposed storm sewer structures shall be in accordance with Section 301.3 of the City of Madison Standard Specifications for Public Works Construction.

Steel used in the pit shoring system shall meet the following standards:

- Structural steel used in soldier piles, wales, rakers, struts, wedges, plates, waterstop, and other accessory steel shapes shall meet ASTM A36.
- Steel sheet piling shall comply with ASTM A572 for continuous interlocking piling.

- Tieback tendons, if used, shall be high strength steel wire strand cables that meet ASTM A416, or bars that meet or exceed ASTM A722. Splicing of ties shall not be permitted.
- Raker Ties shall meet or exceed ASTM A615 Grade 60.

510.4(b) Pipe

The Contractor may select either Centrifugally Cast Fiberglass Reinforced Polymer Mortar Pipe or Reinforced Concrete Pipe.

Centrifugally Cast Reinforced Polymer Mortar Pipe for jacking shall be supplied by Hobas Pipe USA Inc, and shall meet ASTM D3262. The pipe shall be manufactured with flush bell-spigot joints that conform to ASTM D4161 with elastomeric gaskets that meet ASTM F477. Pipe ends shall be square to the pipe axis with a maximum tolerance of 1/16".

Centrifugally Cast Reinforced Polymer Mortar Pipe shall be designed to withstand jacking loads as determined by the Contractor and based on the means and methods of construction. The pipe shall be designed with a minimum factor of safety of 2.5 against jacking loads based on a straight alignment. The pipe shall have a minimum class of SN 72 psi with 0 psi internal pressure to withstand earth dead loads. The minimum pipe stiffness, when tested in accordance with ASTM D2412 shall normally be 140 psi.

Reinforced Concrete Pipe shall be constructed by County Materials Corporation and in accordance with ASTM C76. The pipe shall be a minimum Class III, shall be designed to withstand the jacking loads as determined by the Contractor based on the means and methods of construction, and shall be manufactured with 6000 psi concrete. The pipe shall be designed with a minimum factor of safety of 2.3. Pipe shall be manufactured with a tongue and groove joint, which shall be fitted with an O-ring gasket meeting ASTM C361.

510.4(c) Lubricant

The Contractor shall be responsible for selecting a lubricant appropriate for the tunneling operations and soil conditions.

510.4(d) Grout

The Contractor shall be responsible for selecting a grout appropriate for the tunneling operations and soil conditions.

510.4(e) Concrete

With the exception of reinforced concrete jacking pipe, all concrete used on in the storm installation shall have a minimum compressive strength at 28 days of 4000 psi. All other concrete parameters and installation methodology shall comply with Part III of the City of Madison Standard Specifications for Public Works Construction, or as shown on the plan set.

510.4(f) Backfill

Backfill placed in the launching and receiving pits shall conform to Article 202 of the Standard Specifications. Backfill material shall be free of boulders, masonry, organic matter, or other unsuitable fill material. Backfill shall be compacted in accordance with Article 202.3(c) Special Compaction to 90 percent of maximum density.

If the Contractor chooses, or if compacting equipment cannot access all surfaces, slurry backfill shall be used. Type B Slurry, as defined in Article 301.9 of the Standard Specifications shall be used.

In areas where pipe is exposed, the contractor shall bed and backfill the pipe with Select Fill as defined in Article 202.2(b) of the Standard Specifications. Select Backfill shall be placed in accordance with Article 502 of the Standard Specifications and Standard Design Drawings 5.2.1 and 5.2.2.

510.5 Equipment

510.5(a) Tunneling Equipment

The Contractor shall select tunneling technology that is appropriate for the soil conditions and installation. The tunneling equipment shall be specifically designed for excavating, transporting, and separating materials encountered along the sewer alignment as described in the soil data attached to these Special Provisions. Proposed tunneling equipment shall be designed to operate in conjunction with a pipe jacking system. All pipe shall be installed by tunneling equipment.

It is assumed that an Earth Pressure Balance Tunnel Boring Machine is the most appropriate tunneling system for this project. However, the Contractor may propose alternative tunneling technology, provided it can be shown that the alternative technology is equal or superior for project conditions.

The proposed tunneling equipment shall meet the following requirements:

- Tunneling equipment shall be capable of maintaining tunnel face under wet, dry, and adverse soil conditions. Tunneling equipment shall provide satisfactory support of excavated face at all times, including temporary shutdowns during operations. Tunneling equipment shall be operated in closed mode, unless the Contractor can prove that their proposed system provides equal face support.
- Tunneling equipment shall be capable of advancement through heterogeneous soil conditions, including large cobbles and boulders.
- Tunneling equipment shall have articulated steering capabilities, or be capable of steering in both the vertical and horizontal directions in order to maintain alignment within materials at tunnel level as described in the attached Soils Data.
- An appropriate seal shall be used between the lead jacking pipe and the TBM.
- The tunneling system shall be capable of synchronizing excavated material volume with the advancement rate of the TBM, to prevent excess ground loss and/or heave during operation.
- The tunneling system shall be equipped to efficiently move spoils or slurry from the excavation face to the launching pit.
- The tunneling system shall be capable of injecting lubricant around the exterior of the pipe being jacked.
- The tunneling system shall be capable of controlling heave and settlement by proper operation to acceptable tolerances as indicated.

The parameters listed above shall be logged in real time either manually or by a computer system. Data shall be provided to the Construction Engineer after each drive has been completed.

The Contractor shall be responsible for selecting the appropriate cutter head that is most suitable for ground conditions, as defined in the Soils Data.

The Contractor shall design the boring size such that steering capabilities are maintained throughout the pipe installation. Additionally, the overcut size shall prevent or minimize subsidence, water movement,

jacking loads outside of the design range, and pipe failure. Overcut shall be no less than 0.25 inches and no more than 1.6 inches.

510.5(b) Pipe Jacking Equipment

The Contractor shall provide a pipe jacking system with the following features:

- The main hydraulic cylinders shall be mounted in a jacking frame, located in the launching pit.
- The jacking system shall have sufficient jacking capacity to push the TBM and pipe segments between the pit locations, as shown on the plan set.
- The hydraulic cylinder extension rates shall be capable of being synchronized with the excavation rate of the tunneling equipment.
- The jacking system shall be configured such that jacking forces are uniformly distributed on pipe ends by the use of a thrust ring and packers.
- Hydraulic pressure and cylinder extension shall be capable of being monitored.

510.5(c) Control System

The Contractor shall provide a control system that allows the operator to monitor, in real-time, the position of the cutterhead or shield in relation to a design reference together with other information such as pitch, roll, yaw, complete guidance details, valve positions, thrust force, cutterhead torque, cutterhead RPM, rate of advance, and installed length. The control system shall also be able to provide real-time data on any deviation from the design line and grade by reference to the laser guidance system.

If a slurry system is used, the control system shall be able to provide real-time information on the volume of slurry flow in both the supply and return sides of the slurry loop, the slurry bypass valve position, and the pressure in the slurry chamber.

The control system shall be capable of integrating and monitoring excavation and spoil removal with simultaneous pipe installation. As each pipe segment is jacked forward, the control system shall synchronize all operational functions of the system.

If a microtunneling system is to be used, the control system shall be fully remote and shall be capable of providing all information detailed above without the need for personnel to enter the tunnel.

510.5(d) Active Directional Control

The Contractor shall provide an active direction control system to be used during the tunneling process that has the following features:

- The tunnel line and grade shall be controlled by a guidance system.
- The guidance system shall be equipped with a high-intensity laser (maximum legal limit). The laser shall be securely mounted and protected from disturbance by personnel working within the launching pit.
- The guidance system shall be capable of maintaining the line and grade to the tolerances specified.
- The guidance system shall provide active steering information that is monitored and transmitted to the tunneling operator. At a minimum, this information shall include location of the laser beam on the target and the location of the cutterhead.
- The guidance system shall provide real-time positioning and operation information to the operator.

- The guidance system shall have a reference laser, or other submitted device, that indicates visually in the launching pit that the directional control laser has not been moved.
- The Contractor shall provide adequate ventilation in order to maintain temperature control within the tunnel to minimize laser projection disturbance onto target.

510.5(e) Lubrication System

The lubrication system shall be equipped with a pressure gauge, volumetric gauge, and a shut-off valve on the pump or at the point of injection. The lubrication system shall be capable of preventing over pressurization, which may cause damage to the pipe, heave, or inadvertent returns.

510.5(f) Grout System

The Contractor shall provide and operate an annular space grout system suitable for any required grouting operations. Grouting operations shall not damage adjacent utilities or other properties. Grout shall not be injected at a pressure that will result in damage to the jacking pipe, pit shoring, and any existing structure or utilities. The Contractor shall take necessary precautions to prevent inadvertent returns.

The grout system shall be equipped with a pressure gauge, volumetric gauge, and shut-off valve at the point of injection. The grout system shall be capable of preventing over pressurization, which may cause damage to the pipe, heave, or inadvertent returns.

Should the Engineer determine that additional grouting locations are required, the Contractor shall provide equipment and materials to perform this work.

510.5(g) Power Generation

The Contractor shall be responsible for providing adequate power generation equipment or arranging a power supply to the site. If the Contractor proposes tunneling operations beyond the standard work hours of 7:00 am to 7:00 pm, the Contractor shall have electricity supplied to the site and shall not use generators.

The Contractor may contact Mark Bohm of Madison Gas and Electric (MG&E) at (608) 252-4730 to discuss available electrical facilities. Payment for arranging power supply to the site shall be included with Bid Item 90030.

510.6 Installation

The Contractor shall install 96-inch diameter storm sewer pipe in the configuration shown on the plan set, via trenchless methods.

510.6(a) Work Area

The Contractor shall be responsible for maintaining a safe and orderly work site for the duration of the project. The City Engineer and their representatives shall have access to the site, equipment, materials, and construction data at all times. The City Engineer and their representatives shall not be prohibited from recording any information at the site, including real-time tunneling data.

The Contractor shall maintain clean working conditions by removing muck, debris, equipment, and other materials that are not required for operations. Pipe and other materials shall be stored within the construction limits indicated on the plan set. Streets shall be kept clean at all times.

The Contractor shall provide suitable oil and gas containment basins to ensure no release of oil to the environment. All equipment shall be maintained and kept in proper repair. All oil, hydraulic fluid, or fuel leaks shall be repaired immediately. Any spill shall be cleaned up immediately and disposed of properly. If necessary, the Contractor shall be responsible for filing a Spills Report with the Wisconsin Department of Natural Resources. Lost time due to the cleanup of fuel, oil, or hydraulic fluid releases shall not be compensated by the City.

If damage to road surfaces, sidewalks, curb and gutter, private property, or other features occurs within the lay-down area or along the haul routes used in the project, the Contractor shall repair this damage at no additional cost to the City.

510.6(b) Site Safety

All work shall be performed in accordance with state and federal safety regulations. The Contractor shall have a safety representative on site at all times.

At all times, the site shall be adequately secured to prevent vandalism or potential injury to passersby. The construction site shall be clearly marked as hazardous and closed to the public. All pits shall be fenced, barricaded, and clearly marked as dangerous and a fall hazard.

When working in contaminated soil and in pits where contamination is present, the Contractor shall provide vapor testing equipment, and if necessary, ventilation equipment to assure a safe working environment.

If non-intrinsically safe equipment or pumps are required to run at locations where flammable vapors or materials are present, the Contractor shall provide a fire watch during non-working hours.

510.6(c) Noise Abatement

Work associated with this contract will be occurring in a residential area; some work will occur immediately adjacent to apartment buildings. Therefore, the Contractor shall implement measures necessary to mitigate noise impacts caused by construction equipment and activities. The Contractor shall provide equipment with enclosures, or construct portable sound barriers to minimize sound impact. If the Contractor is using generators, they shall be equipped with a "residential" silencer and acoustic enclosure. All equipment shall have mufflers, and the Contractor shall arrange equipment in a manner that minimizes noise impact.

510.6(d) Ground Water and Surface Water Control

The Contractor shall be responsible for managing both groundwater and surface water throughout the construction site. This shall include management of disrupted storm water conveyance systems. The existing 96-inch storm sewer, upstream of the proposed installation, is not currently on-line, and therefore is not receiving water.

The Contractor shall manage storm water and groundwater in accordance with WDNR permits and regulations. If high-capacity dewatering, or Type II Dewatering, is deemed necessary, the Contractor shall be responsible for obtaining the necessary DNR permits. Payment for work, equipment, materials, and incidentals necessary to manage groundwater and surface water at each pit location shall be included in the individual pit bid items.

The Contractor shall expect to encounter contaminated groundwater near the Campus Drive receiving pit. Documentation of the contamination is included at the end of these Special Provisions.

Non-contaminated groundwater and storm water may be discharged to the storm sewer system, provided appropriate sediment removal has taken place.

Groundwater from the Campus Drive pit shall be discharged to the sanitary sewer system after appropriate sediment removal has taken place. If storm water from the Campus Drive pit exhibits a sheen or any other signs of contamination, it shall be discharged to the sanitary sewer system. If storm water from this location does not exhibit signs of contamination, it may be discharged in a manner similar to other storm water throughout the project.

Prior to the disposal of contaminated water in the sanitary sewer system, the Contractor shall obtain the necessary City of Madison permits.

510.6(e) Utilities

Work will be performed immediately adjacent to several utilities. Where marked on the plan set, the Contractor will be responsible for the protection and/or relocation of these utilities.

The Contractor shall relocate, or protect a 12-inch water main as defined in Bid Item 90040, 12-Inch Water Main Relocation.

The Contractor shall protect an AT&T 12-duct package. AT&T representatives estimate that this duct package can only be moved approximately 1-2 feet, due to the type of existing cables.

The Contractor shall perform Utility Line Openings as defined in the plan set. Utility Line Openings shall determine the horizontal and vertical extents of existing utilities. The Contractor shall retain full responsibility for locating and protecting all utilities within the project area. The Contractor may arrange and perform utility locations prior to April 14, 2013, provided any necessary street opening permits have been obtained, or the Contractor has received permission from the Construction Engineer to do so.

510.6(f) Alignment and Tolerances

Pit Installation

The allowable vertical and lateral movements shall not exceed one inch of movement at any location behind the pit shoring system.

Ground monitoring shall follow a procedure for reading and recording geotechnical instrumentation data that compares the current reading to the last reading collected to eliminate false readings.

The observed ground deformation shall be plotted over time. The plots shall be annotated with construction loading and excavation events that impact readings. The plots shall be evaluated by means of secondary rate-of-change plots to provide early warning of accelerating ground movements.

Tunneling

The Contractor shall be responsible for monitoring and maintaining adherence to the designed pipe alignment. The Contractor shall retain a licensed surveyor to check baseline and benchmarks prior to any tunneling work. The surveyor shall be responsible for reporting any errors or discrepancies to the Construction Engineer prior to construction.

The Contractor shall use the alignment and benchmarks shown on the plan set to furnish and maintain reference and control lines and grades for sewer pipe construction.

The pipe installation shall not vary more than 2.0 feet horizontally, or 0.1 feet vertically from any point along the alignment. The installed pipe shall be free draining along the entire pipe length.

The Contractor shall record the exact position of tunneling equipment at 10-foot intervals, or a minimum of three times per shift to ensure alignment is within specified tolerances. The Contractor shall be prepared to immediately correct any misalignment before allowable tolerances are exceeded. The tunnel guidance system may be allowed to measure and record tunnel advancement; however, the Contractor shall measure and record information after the air temperatures have stabilized throughout the entire length of the pipe to ensure accurate readings.

If the pipe installation is found to be off line or grade, the Contractor shall immediately notify the Engineer and shall develop a plan to return the installation to the design location over the remaining portion of the drive at a rate of not more than 1 inch per 25 feet. If allowable tolerances are exceeded, the Contractor shall pay all costs for correction, including redesign and reinstallation if necessary.

The Contractor shall perform a verification survey with a total station of the installed pipe from the launching pit to the receiving pit. The Contractor shall document measured conformance to the design line and grade of the installation and note locations of deviation, both direction and distance, of any non-conforming locations.

Ground deformation from tunneling activities shall not exceed 0.5 inches.

510.6(g) Launching and Receiving Pits

The pits shall be designed and constructed in a manner, and to a size that is appropriate to each pit location. The pit design shall include groundwater and surface water control measures or procedures.

If pit installation results in ground vibration, the Contractor shall monitor adjacent structures for excessive vibration with seismic monitoring equipment. The Contractor shall perform a Crack and Damage Survey on adjacent structures prior to pit installation and again after the pit has been backfilled. The Contractor shall be responsible for repairing any damage to adjacent structures that was caused by pit excavation, pipe installation, or pit backfilling.

The Contractor shall not begin excavation on any pit until the related earth excavation and dewatering submittals have been approved by the Engineer.

Pit Shoring Systems

The pit shoring system shall be installed in accordance with the approved plan.

The pit shoring system and installation procedures shall be designed by a Professional Engineer with a current registration in the State of Wisconsin. The shoring shall be designed and installed in a manner that maintains lateral support, prevents loss of ground, limits soil movements to acceptable limits, and protects adjacent utilities and structures from damage.

The Contractor shall be fully responsible for pit design, installation, maintenance, and restoration. The Contractor shall be responsible for correcting any failure, damages, subsidence, upheaval, or cave-ins as a result of improper installation, maintenance, or design of the excavation support system. Pay for all claims, costs, and damages that arise as a result of the work performed shall be responsibility of the Contractor.

Securing Excavation

Pits shall be secured with fence and concrete barriers. The fence shall be 9-gauge, galvanized, welded, chain-link material and shall have no gaps greater than 3 inches. The fence shall be a minimum of 8 feet high. Appropriate warning signs shall be placed on the fence including No Trespassing and fall warnings. The pit shall be protected from traffic by temporary, concrete barriers. The barriers shall be designed, placed, and anchored in accordance with WDOT 2013 Standard Specifications Section 603, CMM 1-45, and FDM 11-50-35.

Support System Removal

The pit shoring system shall be removed in a manner that does not endanger constructed or adjacent structures, utilities, or property. All voids shall be immediately backfilled in accordance with Section 510.4.

If tiebacks are used, the tieback tension shall be released as the excavation is backfilled. The Contractor shall not leave tensioned tiebacks in place at completion of the work.

No portion of the shoring systems shall be left in place in Highland Avenue or Walnut Street. In these locations all portions of the shoring support systems shall be fully removed.

The Contractor may request to leave portions of the shoring system in place on Campus Drive. If approved by the City, the Contractor shall provide survey documentation of the horizontal and vertical extents of remaining items. The Contractor shall provide the Construction Engineer with a written description of what components were left in place, including the material, gauge, size, etc. Any portion of the shoring system left in place shall be cut off a minimum of two feet below the bottom of the most proximal foundation, or a minimum of five feet below finished grade.

510.6(h) Tunneling

The Contractor shall be fully responsible for the complete installation of the 96-inch storm sewer pipe. The Contractor shall make themselves aware of the existing soil conditions as described in the attached geotechnical reports and understand that the existence of cobbles and boulders are to be expected. The Contractor shall make the geotechnical reports available to the tunneling operator.

The Contractor shall conduct microtunneling operations in accordance with all applicable safety rules and regulations and use methods that include due regard for safety of workers and the public, and protection for adjacent structures and utilities.

The Contractor shall perform all launching and retrieval operations in accordance with submitted documents and work plans. The Contractor shall notify the Engineer immediately upon implementation of any contingency plan.

No tunneling shall commence until the receiving pit is completed for retrieval of tunneling equipment.

The Contractor shall maintain the tunnel excavation within the rights-of-way, easements, and construction limits as defined in the plan set. The Contractor shall maintain alignment and grade within the specified tolerances.

The Contractor shall operate the tunneling system in accordance with the manufacturer's operating parameters, parameters established in the specifications, and the parameters defined in the submittals. The rate of tunnel advancement shall be synchronized with the rate of muck removal to prevent excess ground loss or heave. Fluid jetting in advance of the pipe is prohibited.

The tunnel excavation shall be the minimum sufficient size to permit pipe installation via jacking, with allowance for injection of lubricant. The Contractor shall maintain an envelope of lubricant around the exterior of the pipe during the entire jacking and excavation operation in order to minimize potential surface settlements from soil entering into the annular space and to reduce the exterior friction acting against the pipe, creating the possibility of pipe seizure.

If the pipe seizes in place, a rescue pit may be permitted with the location and operations subject to review by the Engineer. The Contractor shall obtain written approval from the Engineer prior to construction of this pit. Any rescue pit shall take into consideration impact to private property and public inconvenience. Rescue operations for seized tunneling equipment and pipe shall be the full responsibility of the Contractor, including repairs to private property and reparations to property owners.

The Contractor shall be responsible for any soil modification procedures that may be necessary to maintain a stable excavation face, both during launching procedures and throughout the entire tunneling process. Soil stabilization procedures shall be approved by the Engineer prior to implementation.

In the event a section of pipe is damaged during jacking operations, or in the event of joint failure as evidenced by visible ground water inflow or other observations, the Contractor shall use one of the following procedures to correct the damage at no additional cost to the City. The proposed method of repair shall be approved by the Engineer prior to implementation.

- If the pipe is only minimally damaged, passes a leakage test, and maintains barrel and joint structural integrity, it may be repaired in place by a method approved by the pipe manufacturer and Engineer.
- If the pipe is severely damaged, or the pipe shows evidence of joint failure, it shall be removed from the excavation by jacking it through the length of the tunnel and removing it at a receiving pit. If at that time the removed pipe is found to be without defect, it may be placed back into the pipe string and jacked a second time.

The Contractor shall fill all annular space with contact grout in a manner that controls settlement and heave.

The Contractor shall assume heterogeneous, glacial soil conditions, including boulders. Payment for tunneling through obstructions two feet in diameter or smaller shall be considered incidental to Bid Item 90030. Obstructions greater than two feet in diameter shall be paid separately, under Bid Item 90039, for each individual obstruction encountered and managed.

510.6(i) Spoils Management

Management, removal, and disposal of clean spoils produced during pit excavation and tunneling shall be the full responsibility of the Contractor.

If a slurry TBM system is used, the Contractor shall provide a slurry separation system that is capable of the following:

- The selected system shall provide adequate separation of muck from slurry, such that slurry has a sediment content within the limits defined in the approved submittals, and can be returned to the cutting face for reuse.
- The slurry separation system shall use a mechanical separation plant, including scalping screens, shaker screens, desanding and desilting cones, and a centrifuge if deemed necessary. The separation system shall contain all muck on-site prior to disposal at an approved location.

- The slurry separation system and operating plant shall be appropriately sized for the size of the tunnel, soil conditions, and workspace available.
- The Contractor shall diligently monitor the composition of the slurry to maintain slurry weight, gel strength, and viscosity limits as defined in the approved submittals.

Payment for the management, removal, and disposal of clean spoils generated during pit excavations shall be included with the bid items for each pit. Payment for the management, removal, and disposal of clean fill generated during pipe installation shall be included with Bid Item 90030.

Contaminated material shall be expected to be generated during the excavation of the Campus Drive receiving pit and tunneling operations near the Campus Drive pit. The soil is contaminated with petroleum products. While proceeding in this area, the Contractor shall be vigilant for signs of contamination, including smell and visual observations. If contaminated soil is encountered, the Contractor shall immediately notify the Construction Engineer.

When contaminated soil is encountered, it shall be segregated from the clean spoils. Contaminated material shall be brought to the Dane County Landfill, located at 7102 U.S. HWY 12, Madison, WI 53718. No testing requirements are necessary for the contaminated material. The Contractor shall be responsible for the excavation and segregation of contaminated material. Transport of contaminated material shall be paid under Bid Item 90043. The Contractor shall haul contaminated materials in accordance with state and federal regulations, including the use of covered trucks. Tipping fees associated with the disposal of contaminated material will be the responsibility of the City.

510.7 Inspection and Testing

Work under this section provides for the trenchless installation of 96-inch diameter storm sewer pipe. Installation shall be completed with an Earth Pressure Balance (EPB) Tunnel Boring Machine (TBM). Installation of the pipe, when completed, shall provide a water tight pipe of the specified alignment, slope, and depth specified in the plan set.

ARTICLE 701 PROVISIONS FOR WATER INSTALLATION AND ABANDONMENT

This project consists of installing 6-IN ductile iron water main on Walnut Street and supporting or adjusting 12-IN water main on Walnut Street to accommodate storm sewer construction. Any relocation or replacement of PVC water main shall be made with ductile iron water main. The project also includes abandoning the existing 4-IN water main, valves and hydrant on Walnut Street.

Coordinate gas and electric utility crossings with Madison Gas & Electric. Existing facilities as shown on these plans may be relocated prior to construction.

BID ITEM 20336 – PIPE PLUG (UNDISTRIBUTED)

DESCRIPTION

Work under this bid item shall include all work, materials, and incidentals necessary to construct concrete pipe plugs for storm sewer pipe with a diameter of 21-inches or smaller. Pipe plugs shall be constructed in accordance with Article 203 of the Standard Specifications

METHOD OF MEASUREMENT

Pipe Plug (Undistributed) will be measured per Each complete entrance installed in the field.

BASIS OF PAYMENT

Pipe Plug (Undistributed) shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 21014 – CONSTRUCTION ENTRANCE**DESCRIPTION**

Work under this bid item shall include all equipment and labor necessary to install a construction entrance in accord with the City of Madison Standard Specifications for Public Works Construction. Construction Entrances shall be located by the Construction Engineer and the Contractor based on site needs. Construction Entrances shall be considered complete at the dimensions shown in Standard Detail Drawing 1.07. Smaller tracking pads will be paid solely on the basis of Clear Stone used.

METHOD OF MEASUREMENT

Construction Entrance will be measured per Each complete entrance installed in the field.

BASIS OF PAYMENT

Construction Entrance shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 50792 – STORM SEWER TAP (UNDISTRIBUTED)**DESCRIPTION**

Work under this bid item shall include all work, equipment, materials, and incidentals necessary to construct storm sewer taps for pipes 21-inches in diameter or smaller. Storm sewer taps shall be constructed in accordance with Part V of the Standard Specifications.

METHOD OF MEASUREMENT

Storm Sewer Tap (Undistributed) will be measured per Each complete entrance installed in the field.

BASIS OF PAYMENT

Storm Sewer Tap (Undistributed) shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 70002 – FURNISH AND INSTALL 6-INCH PIPE & FITTINGS**DESCRIPTION**

In addition to the requirements of the Standard Specifications, this bid item shall include furnishing and installing the 12-IN-x-6-IN tee required at the cut-in connection to the existing 12-IN PVC water main at STA 32+54.1.

BID ITEM 70446 – REPLACE 1-IN COPPER SERVICE LATERAL**DESCRIPTION**

In addition to the requirements of the Standard Specifications, this bid item shall include all work associated with tapping and temporarily connecting to the existing 4-IN cast iron water main to provide service to the Open Pantry gas station/Subway restaurant during construction of the new water main. Upon obtaining successful pressure and bacteriological test results, the temporary service connection is to be transferred permanently to the new 6-IN ductile iron water main. Coordinate all service outages with the affected businesses/customers at least 48-hours prior to any service interruption. Provide all reasonable accommodations to minimize impact on affected businesses/customers.

BID ITEM 90001 – UMBRELLA INSURANCE COVERAGE

DESCRIPTION

This bid item shall include all effort and cost necessary to procure and maintain insurance coverage as described in Section 107.4 of the Special Provisions.

METHOD OF MEASUREMENT

Umbrella Insurance Coverage shall be paid for as a Lump Sum.

BASIS OF PAYMENT

Umbrella Insurance Coverage shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90030 – FURNISH AND INSTALL 96-INCH I.D. STORM SEWER PIPE

DESCRIPTION

Work under this bid item shall include the provision and installation of 96-inch storm sewer pipe, including all necessary equipment, labor, and incidentals required to complete the trenchless installation as defined in these Special Provisions. It is assumed that an Earth Pressure Balance Tunnel Boring Machine will be the most suitable equipment for this installation. However, the Contractor may propose alternative tunneling technology, provided that all installation specifications can be met, including the provision of a stable excavation face, and the ability to monitor anticipated excavated material and spoils generated.

Installation shall occur in accordance with these specifications, Contractor submittals, and manufacturer's guidelines. The final product shall be a City approved, watertight, 96-inch I.D. pipe installation at the line and grade specified in the plan set and that meets the tolerances outlined in these Special Provisions.

Any soil augmentation required to stabilize the ground at the launching and receiving locations shall be considered incidental to this bid item.

Provision and use of lubricants and contact grouts shall be considered incidental to this bid item. The Contractor or their engineer shall be responsible for designing adequate grout injection locations.

Management of clean spoils generated during the tunneling process, including slurry separation and off-site disposal, shall be included this bid item. If contaminated soil is encountered while tunneling, its segregation and stockpiling, shall be included with this bid item. The transportation of contaminated soils shall be paid under Bid Item 90043. The City shall be responsible for tipping fees associated with disposal of contaminated material.

Repair or replacement of damaged or misaligned pipe shall be the responsibility of the Contractor.

METHOD OF MEASUREMENT

Furnish and Install 96-inch I.D. Storm Sewer Pipe shall be measured by the linear foot of pipe supplied, placed, and accepted.

BASIS OF PAYMENT

Furnish and Install 96-Inch I.D. Storm Sewer Pipe shall be measured as above and paid for that the contract price, which shall constitute full payment for provision and installation of the pipe in accordance with the description and as shown on the plan set.

BID ITEM 90031 – WALNUT STREET LAUNCHING PIT

DESCRIPTION

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to design, excavate, shore, and maintain a pit of sufficient size and depth to launch tunneling equipment. The pit shall be designed such that it is possible to launch both sections of pipe from this location. The Contractor and their engineer are responsible for assuring proper shoring design. The Contractor shall submit a shoring and/or excavation plan to the Engineer prior to beginning work on the pit. The pit and shoring design shall be completed by an engineer currently licensed in the State of Wisconsin.

Walnut Street will be closed to vehicle traffic for the duration of the project, with the exception of April 27th, per Bid Item 90034. The Contractor shall maintain segregated space for bicycle and pedestrian traffic at all times. Additionally, the Contractor shall maintain access at all times to the Casa Blanca apartments, located at 2302 University Avenue. The Casa Blanca has one driveway to their parking facility, which is located on Walnut Street. This driveway shall not be blocked.

The pit shall be secured with fence and concrete barriers. The fence shall be 9-gauge, galvanized, welded, chain-link material and shall have no gaps greater than 3 inches. The fence shall be a minimum of 8 feet high. Appropriate warning signs shall be placed on the fence including No Trespassing and fall warnings. The pit shall be protected from traffic by temporary, concrete barriers. The barriers shall be designed, placed, and anchored in accordance with WDOT 2013 Standard Specifications Section 603, CMM 1-45, and FDM 11-50-35.

This bid item shall also include all work, materials, labor, and equipment necessary to design and construct thrust blocks and entrance seals appropriate for the tunneling and jacking operations. If soil augmentation is required to safely launch the TBM, it shall be completed as part of this bid item.

Storm water and groundwater control for this pit shall be considered incidental to the bid item. Storm water control required as a result of necessary alterations in the storm sewer system for pit installation, shall also be considered incidental to this bid item. If high-capacity dewatering, or Type II Dewatering, is deemed necessary, the Contractor shall be responsible for obtaining the necessary DNR permits.

Disposal of clean material, including off-site disposal, shall be considered incidental to this bid item. The Contractor shall anticipate contaminated soil at this location. Excavation, segregation, and stockpiling of contaminated material shall be included with this bid item. Transportation of contaminated material shall be paid under Bid Item 90043. The City shall be responsible for tipping fees associated with disposal of contaminated material. The Contractor shall immediately notify the Construction Engineer if contaminated soil is encountered.

Backfilling the pit shall be considered incidental to this bid item. Provision of a suitable base in preparation of road resurfacing shall be considered incidental to this bid item.

METHOD OF MEASUREMENT

Walnut Street Launching Pit shall be measured as a Lump Sum for all design, work, materials, equipment, and incidentals necessary to install the pit as described in the Special Provisions and as shown on the plan set.

BASIS OF PAYMENT

Walnut Street Launching Pit shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90032 – CAMPUS DRIVE RECEIVING PIT

DESCRIPTION

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to design, excavate, shore, and maintain a pit of sufficient size and depth to retrieve tunneling equipment and install the Storm Sewer Tap at Campus Drive (Bid Item 90037). The Contractor and their engineer are responsible for assuring proper shoring design for the pit. The Contractor shall submit a shoring and/or excavation plan to the Engineer prior to beginning work on the pit. The pit and shoring design shall be completed by an engineer currently licensed in the State of Wisconsin. The pit shall be completely installed prior to launching tunneling equipment.

The Contractor shall be responsible for designing the pit and shoring to adequately receive launching equipment. Exit seals and soil augmentation required to safely receive the TBM at this location shall be paid under this bid item.

During the 2005 construction of the existing storm structure at Campus Drive, the contractor partly used the shoring system to form the concrete for the structure. The Contractor shall be prepared to encounter this shoring when excavating this pit and completing the Storm Tap defined in Bid Item 90037.

The pit and traffic control devices shall not impede more than one traffic lane on Campus Drive. The Contractor shall not work or store equipment or materials outside of the easements shown on Sheet 2. The narrow, north-south oriented easement strip is intended to only provide occasional access to the pit. The Contractor shall coordinate this access and use of this easement with the property owners or on-site management of Don the Car Care Man. The Contractor shall not block garage doors without prior permission from property owners or on-site management. If the Contractor deems it necessary to remove the wood fence between Don the Car Care Man and Octopus Car Wash, the fence shall be replaced undamaged, or replaced with an equal fence. The work shall be considered incidental to this bid item.

The pit shall be secured with concrete barriers and fence. The fence shall be 9-gauge, galvanized, welded, chain-link material and shall have no gaps greater than 3 inches. The fence shall be a minimum of 8 feet high. Appropriate warning signs shall be placed on the fence including No Trespassing and fall warnings. The pit shall be protected from traffic by temporary, concrete barriers. The barriers shall be designed, placed, and anchored in accordance with WDOT 2013 Standard Specifications Section 603, CMM 1-45, and FDM 11-50-35.

Storm water and groundwater control for this pit shall be considered incidental to the bid item. Storm water control required as a result of necessary alterations in the storm sewer system for pit installation, shall also be considered incidental to this bid item. The Contractor shall anticipate contaminated groundwater at this location. The Contractor shall monitor storm water for evidence of contamination and manage it appropriately. If high-capacity dewatering, or Type II Dewatering, is deemed necessary, the Contractor shall be responsible for obtaining the necessary DNR permits.

Disposal of clean material, including off-site disposal, shall be considered incidental to this bid item. The Contractor shall anticipate contaminated soil at this location. Excavation, segregation, and stockpiling of contaminated material shall be included with this bid item. Transportation of contaminated material shall be paid under Bid Item 90043. The City shall be responsible for tipping fees associated with disposal of contaminated material. The Contractor shall immediately notify the Construction Engineer if contaminated soil is encountered.

In a 2005 excavation at this location, contaminated water or volatile vapors caused a fire. The Contractor shall be prepared to ventilate this pit as necessary to prevent the buildup of hydrocarbon vapors. If non-

intrinsically safe equipment or pumps are left running after working hours, the Contractor shall provide a fire-watch at this location.

Backfilling the pit shall be considered incidental to this bid item. Provision of a suitable base in preparation of road repair and resurfacing shall be considered incidental to this bid item.

When repairing the Campus Drive Receiving Pit, the Contractor shall reconstruct the road to its original cross section, shown on Sheet U-9. Additionally, the Contractor shall pulverize and resurface the full width of any disturbed lane. For instance, if only the shoulder has been damaged due to the excavation, the Contractor is only required to pulverize and resurface the shoulder. If any portion of a drive lane has been damaged, the Contractor shall pulverize and resurface the full lane for a minimum distance of 50 feet in either direction. See Sheet U-9. Bid items required for resurfacing Campus Drive shall be paid separately under the appropriate bid item.

METHOD OF MEASUREMENT

Campus Drive Receiving Pit shall be measured as a Lump Sum for all design, work, materials, equipment, and incidentals necessary to install the pit as described in the Special Provisions and as shown on the plan set.

BASIS OF PAYMENT

Campus Drive Receiving Pit shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90033 – HIGHLAND AVENUE RECEIVING PIT

DESCRIPTION

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to design, excavate, shore, and maintain a pit of sufficient size and depth to retrieve tunneling equipment and install the Highland Avenue Storm Structure (Bid Item 90036). The Contractor and their engineer are responsible for assuring proper shoring design of the pit. The Contractor shall submit a shoring and/or excavation plan to the Engineer prior to beginning work on the pit. The pit and shoring design shall be completed by an engineer currently licensed in the State of Wisconsin. The pit shall be completely installed prior to launching tunneling equipment.

The Contractor shall be responsible for designing the pit and shoring to adequately receive launching equipment. Exit seals and soil augmentation required to safely receive the TBM at this location shall be paid under this bid item.

The pit and traffic control devices shall not impede more than two traffic lanes on Highland Avenue. The Contractor shall not work or store equipment or materials outside of the laydown areas shown on Sheet 1. The Contractor shall maintain access to Highland Avenue parking entrance at 2550 University Avenue.

The pit shall be secured with concrete barriers and fence. The fence shall be 9-gauge, galvanized, welded, chain-link material and shall have no gaps greater than 3 inches. The fence shall be a minimum of 8 feet high. Appropriate warning signs shall be placed on the fence including No Trespassing and fall warnings. The pit shall be protected from traffic by temporary, concrete barriers. The barriers shall be designed, placed, and anchored in accordance with WDOT 2013 Standard Specifications Section 603, CMM 1-45, and FDM 11-50-35.

Storm water and ground water control for this pit shall be considered incidental to the bid item. Storm water control required as a result of necessary alterations in the storm sewer system for pit installation,

shall be considered incidental to this bid item. If high-capacity dewatering, or Type II Dewatering, is deemed necessary, the Contractor shall be responsible for obtaining the necessary DNR permits.

Disposal of clean material, including off-site disposal, shall be considered incidental to this bid item. The Contractor shall anticipate contaminated soil at this location. Excavation, segregation, and stockpiling of contaminated material shall be included with this bid item. Transportation of contaminated material shall be paid under Bid Item 90043. The City shall be responsible for tipping fees associated with disposal of contaminated material. The Contractor shall immediately notify the Construction Engineer if contaminated soil is encountered.

Backfilling the pit shall be considered incidental to this bid item. Provision of a suitable base in preparation of road reconstruction shall be considered incidental to this bid item.

METHOD OF MEASUREMENT

Highland Avenue Receiving Pit shall be measured as a Lump Sum for all design, work, materials, equipment, and incidentals necessary to install the pit as described in the Special Provisions and as shown on the plan set.

BASIS OF PAYMENT

Highland Avenue Receiving Pit shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90034 – OPENING OF WALNUT STREET FOR CRAZYLEGS ROAD RACE

DESCRIPTION

The Contractor shall open a suitable lane on Walnut Street on April 27, 2013 in order to accommodate the racers in the CrazyLegs road race, which is a road race with 20,000+ participants. A lane at least 14 feet wide shall be provided for the racers. The Contractor shall appropriately backfill any open excavations and pave the lane with either asphalt or concrete. The lane shall be free from trip-hazards, fall hazards, and clearly defined. All transitions between pavement materials or pavement patches shall be smooth.

Any necessary signage, barrels, or other indicators required to safely transition runners into the lane and out of the lane shall be considered incidental to this bid item. Transitioning and signage shall be approved by race staff prior to April 27, 2013.

If the Contractor chooses to leave equipment or materials outside of the running lane, they shall be appropriately secured and segregated to prevent movement or accidental injury. If the Contractor leaves unpaved surfaces, they shall be appropriately fenced or barricaded so as to prevent accidental tripping or falling. If the Contractor leaves open excavations, they shall be fenced with an 8-foot chain link fence and barricaded with temporary concrete barriers. Barricading plans shall be approved by the Construction Engineer prior to April 27, 2013.

All materials and equipment required to provide a safe, segregated, paved, 14-foot lane for road racers on April 27, 2013 shall be considered incidental to this bid item. This includes backfill, subgrade, pavement, fencing, barricades, cones, signage, and any other materials necessary for the completion of this bid item.

METHOD OF MEASUREMENT

Opening of Walnut Street for CrazyLegs Road Race shall be measured as a lump sum for all work, materials, incidentals, and planning/phasing required for opening Walnut Street to accommodate runners on April 27, 2013.

BASIS OF PAYMENT

Opening Walnut Street for CrazyLegs Road Race shall be measured as described above and paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90035 – WALNUT STREET STORM STRUCTURE**DESCRIPTION**

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to construct the Walnut Street Storm Structure in accordance with Sheet U-7. The structure shall be constructed in accordance with the Standard Specifications Part V, Special Provisions, and as shown on the plan set. The Contractor may propose an alternate shape or sized structure. Any proposed alternatives shall be designed and stamped by a Professional Engineer licensed in the State of Wisconsin.

METHOD OF MEASUREMENT

Walnut Street Storm Structure shall be measured by as a Lump Sum for all work, materials, labor and incidentals required for structure construction.

BASIS OF PAYMENT

Walnut Street Storm Structure shall be measured as described above and paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90036 – HIGHLAND AVENUE STORM STRUCTURE**DESCRIPTION**

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to construct the Highland Avenue Storm Structure in accordance with Sheet U-8. The structure shall be constructed in accordance with the Standard Specifications Part V, Special Provisions, and as shown on the plan set. The Contractor may propose an alternate shape or sized structure. Any proposed alternatives shall be designed and stamped by a Professional Engineer licensed in the State of Wisconsin.

METHOD OF MEASUREMENT

Highland Avenue Storm Structure shall be measured by as a Lump Sum for all work, materials, labor and incidentals required for structure construction.

BASIS OF PAYMENT

Highland Avenue Storm Structure shall be measured as described above and paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90037 – STORM SEWER TAP AT CAMPUS DRIVE**DESCRIPTION**

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to construct a stable opening in the existing structure at Campus Drive, and to create a water tight connection for the 96-inch storm pipe at this opening. If reinforced concrete pipe is being used, the Contractor may stabilize the opening with the concrete pipe. If centrifugally cast fiberglass reinforced polymer pipe is used, the Contractor shall submit a plan, stamped by their PE, detailing how the opening will be permanently stabilized. Steel reinforcing beams, concrete pillars, or other methods will be considered acceptable means of stabilization. The Contractor shall not leave exposed steel as part of the permanent stabilization. All steel shall be protected by water-resistant grout, or other means of water proofing.

During the 2005 construction of the existing storm structure at Campus Drive, the contractor partly used the shoring system to form the concrete for this structure. The Contractor shall be prepared to encounter this shoring when excavating this pit and completing the 96-inch connection.

METHOD OF MEASUREMENT

Storm Sewer Tap at Campus Drive shall be measured by the Lump Sum for all work, materials, labor and incidentals required for structure construction.

BASIS OF PAYMENT

Storm Sewer Tap at Campus Drive shall be measured as described above and paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90038 – STORM SEWER TAP AT STRUCTURE SS 4151-079

DESCRIPTION

Work under this bid item shall include all materials, equipment, labor, and incidentals necessary to sawcut an opening measuring approximately 10 feet by 10 feet at existing storm structure SS 4151-079. The Contractor shall anticipate concrete a minimum of 18 inches thick with two faces of steel reinforcement. The Contractor shall be responsible for concrete removal and off-site disposal. The Contractor shall be aware that this work will require enclosed space entry.

METHOD OF MEASUREMENT

Storm Sewer Tap at Structure SS 4151-079 shall be measured by the Lump Sum for all work, materials, labor and incidentals required for structure construction.

BASIS OF PAYMENT

Storm Sewer Tap at Structure SS 4151-079 shall be measured as described above and paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90039 – OBSTRUCTIONS GREATER THAN 2 FEET IN DIAMETER

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals required to tunnel through obstruction greater than 2 feet in diameter. Methodology for managing these obstructions is the sole responsibility of the Contractor. Managing obstructions two feet or smaller in diameter shall be included with Bid Item 90030.

METHOD OF MEASUREMENT

Obstructions Greater Than 2 Feet in Diameter shall be measured by Each obstruction encountered and processed during pipe installation.

BASIS OF PAYMENT

Obstructions Greater Than 2 Feet in Diameter shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90040 – 12-INCH WATER MAIN RELOCATION

DESCRIPTION

Work under this item shall include all work, materials, equipment, and incidentals required to protect or relocate the 12-inch water main located in Walnut Street. The Contractor shall submit water main relocation plans to Madison Water Utility a minimum of two (2) working days prior to beginning relocation work. All proposed work shall be in accordance with Part VII of the Standard Specifications

for Public Works Construction. Any temporary water main support is to be performed in accordance to Standard Specification 703.3(a). Above-ground temporary water main bypass may be permitted during construction. Contact Madison Water Utility for temporary bypass requirements. Questions regarding Madison Water Utility facilities may be directed to Adam Wiederhoeft at awiederhoeft@madisonwater.org or (608) 266-9121.

METHOD OF MEASUREMENT

12-Inch Water Main Relocation shall be measured as a Lump Sum for all work, materials, equipment, and incidentals required to perform the work as described above.

BASIS OF PAYMENT

12-Inch Water Main Relocation shall be paid for at the contract price, which shall be full compensation for all work as outlined in the description.

BID ITEM 90041 – REINFORCED CONCRETE PIPE FIELD BEND

DESCRIPTION

Where shown on the drawings, the Contractor shall provide a reinforced concrete pipe field bend. The field poured bend shall be reinforced with welded wire fabric and shall utilize fiber reinforced concrete in the concrete collar itself. The interior or the joint shall be finished smooth to match the interior of adjoining surfaces.

METHOD OF MEASUREMENT

Individual or multiple precast bend sections that are assembled to provide the total angle required will be measured for payment as a single precast bend.

BASIS OF PAYMENT

Reinforced Concrete Pipe Field Bend shall be paid for according to the unit price bid. Price bid shall include all materials, labor and equipment necessary for a complete installation as specified in the description.

BID ITEM 90042 - CRACK AND DAMAGE SURVEY

DESCRIPTION

This bid item shall include all work, materials, equipment, and incidentals required to conduct crack and damage surveys at all properties adjacent to the storm sewer installation.

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

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

The photographs shall be taken by a photographer and camera capable of producing sharp, grain free, high-contrast, colored pictures with good shadow details. The photographs shall be submitted digitally on compact disc or thumb drive and shall be accompanied by photograph details, including: photo name or

number, building location, view facing, date, photographer, and prominent feature(s) of photo, if any. If video is taken of the properties, the video shall be submitted digitally on a compact disc or thumb drive. Video shall include a narrative (sound component) describing location and notable features of the structure/property.

Prior to the start of any construction activities pertinent to this survey, a copy of the written report and photographs shall be submitted to the Engineer.

A second inspection, identical to the first, shall be completed after the all work is finished. Submittal requirements from this inspection shall be identical to the initial inspection. If any changes in condition to the property or structure is observed, it shall be brought to the immediate attention of the Engineer.

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

MEASUREMENT

Crack and Damage Survey will be measured by each home surveyed. The complete payment unit will include both the pre construction survey and the post construction survey. Failure to complete either the prior or post survey shall result in non-payment for the entire Crack and Damage Survey.

BASIS OF PAYMENT

Crack and Damage Survey, measured as provided above, shall be paid for at the contract unit price. Payment is full compensation for providing the before and after written reports, photographs or videotapes; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

BID ITEM 90043 – HAULING CONTAMINATED SOIL

DESCRIPTION

This bid item shall include all work, materials, equipment, and incidentals necessary to transport contaminated soil from the project site to the Dane County Landfill, located at 7102 U.S. HWY 12, Madison, WI 53718. No testing requirements are necessary for the contaminated material. The Contractor shall be responsible for the excavation and segregation of contaminated material. The Contractor shall haul contaminated materials in accordance with state and federal regulations, including the use of covered trucks. Tipping fees associated with the disposal of contaminated material will be the responsibility of the City. The Contractor shall submit all weight tickets to the Construction Engineer.

MEASUREMENT

Hauling Contaminated Soil shall be measured by the Ton of contaminated soil that is loaded, transported, and unloaded at the Dane County Landfill. The tonnage will be determined by the weight tickets generated at the Dane County Landfill.

BASIS OF PAYMENT

Hauling Contaminated Soil, measured as provided above, shall be paid for at the contract unit price and shall be considered full compensation for the work described above.

BID ITEM 90044 – REMOVE 96" STORM PLUG

DESCRIPTION

Work under this bid item shall include all labor, equipment, materials, and incidentals necessary to remove the existing, 96-inch storm sewer plug at the eastern limit of the existing 96-inch pipe, the Highland Avenue terminus. The Contractor shall be prepared to remove wood, mortar, brick, and or

concrete. All material generated by demolishing the storm sewer plug shall be removed from the site and properly disposed. The Contractor shall remove the plug without damaging the existing pipe. Any damage that may occur as a result of the removal shall be repaired at the Contractor's expense.

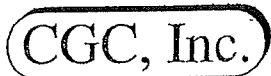
MEASUREMENT

Remove 96" Storm Plug shall be measured as a Lump Sum for all work, equipment, materials, and disposal costs required to remove the existing pipe plug.

BASIS OF PAYMENT

Remove 96" Storm Plug shall be shall be paid for at the contract unit price, which shall be considered full compensation for the work described above.

SOILS DATA



Construction • Geotechnical
Consulting Engineering/Testing

January 5, 2011
C10041-42

Mr. Greg Fries, P.E.
City of Madison Engineering Division
Room 115, City-County Building
210 Martin Luther King Jr. Blvd.
Madison, WI 53703

Re: Geotechnical Exploration
Campus Drive Storm Sewer Project
Madison, Wisconsin

Dear Mr. Fries:

Construction • Geotechnical Consultants, Inc. (CGC) has completed our geotechnical exploration program for the project referenced above. The purpose of this exploration was to evaluate the subsurface conditions within the proposed utility construction area and to provide geotechnical recommendations relative to construction.

PROJECT DESCRIPTION

We understand that the project will involve the construction of a storm sewer utility line along the south side of the Campus Drive embankment. The line is proposed to begin to the west of Highland Avenue (including a leg within in Highland Avenue beginning at Old University Avenue) and proceed eastward along Campus Drive to the west of Walnut Street, at which point it will intersect with the Willow Creek storm sewer. Pipe invert grades are anticipated to be less than 15 ft below grade to the west of Walnut Street, and approaching 20 ft below grade within the embankment to the east of Walnut Street. We anticipate construction methods will involve open trenching and possibly directional drilling to the east of Walnut Street.

SUBSURFACE CONDITIONS

The subsurface conditions were explored by drilling two Standard Penetration Test (SPT) borings to depths of 20 ft below existing site grades near the proposed Highland Avenue and Walnut Street structures. A third boring was proposed near the planned intersection of the new line and existing Willow Creek sewer, but was deemed unnecessary as information at that location was recovered during the 2003 "Willow Creek Storm Sewer" exploration (CGC Project No. C03040-22). Note the boring log from said project has been redesignated B1 (previously B-4) and included along with the current findings in this report. The boring depths for B2 and B3 were selected by drilling at least 10 ft below the planned invert depths at the structures on Highland Avenue and Walnut Street. The boring depth at B1 was selected by Strand Associates. The intent of the borings was to extend



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below pipe invert grades to evaluate soil and groundwater conditions, as well as to determine whether bedrock was present. The soil borings were conducted by Badger State Drilling (under subcontract to CGC) on December 20, 2010 (B2 and B3) or on July 21, 2003 (B1). The borings were drilled using truck-mounted drill rigs equipped with hollow stem and/or flight augers. The soil samples were obtained at 2.5 ft intervals in the upper 10 ft and 5 ft intervals thereafter following standard penetration test (SPT) procedures per ASTM D1586.

The boring locations are shown on Soil Boring Location Plans in Appendix A. The locations were selected by City personnel as well as Strand Associates and field located by CGC personnel. Elevations at B2 and B3 were determined using assumed data as requested. An elevation at B1 was determined by others at a time after the submission of the Willow Creek report.

The subsurface profile is quite variable from one boring location to the next. Basically the upper portions of each boring are dominated by fill/possible fill to depths as shallow as 3.5 ft in B-2 to as great as 11 ft in B-1. The fill varies in density and compaction. Sands and clays make up the majority of the fill. In general, stiff clays atop medium dense to very dense natural sands underlie the fill/possible fill. The sands contain varying percentages of silt, clay and gravel. Although not noted in the borings, scattered cobbles/boulders could also be present. Please note that at B2; 6 in. of asphalt pavement over 6 in. of base course were present while at B3; 9.5 in. of concrete pavement over 6 in. of base course were present. As exceptions, a very stiff clay layer was noted in B2 and no sands were encountered beneath the fill in B3.

Groundwater was only encountered approximately 13 ft below ground surface at B2. Note that groundwater levels are expected to fluctuate based on seasonal variations in precipitation, infiltration, nearby lake/stream stages etc. A more detailed description of the site soil and groundwater conditions is presented in the boring logs contained in Appendix A.

DISCUSSION AND RECOMMENDATIONS

Our recommendations concerning the geotechnical aspects of pavement/utility construction and filling activities are presented in the following subsections. General recommendations, limitations and other important information regarding this report are presented in Appendix B.

1. Pavement Design

In our opinion, the fill materials encountered beneath the base course are generally satisfactory for proposed roadway support. If areas of soft clays are encountered (such as where pocket penetrometer values are near 1 tsf or less), they may need to be undercut/removed and replaced with granular fill or additional base course. Furthermore, significant construction traffic could destabilize the existing materials and increase the potential for undercuts. Granular materials



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should be thoroughly compacted before the placement of additional fill and/or base course. Any pockets of excessively organic topsoil should also be removed. Standard earthwork-related techniques that should be used during roadway construction include:

- Proof-rolling of the exposed subgrades;
- Undercutting and/or stabilization in soft areas; and
- Compaction control of fill/backfill materials (if any).

Clays will control the pavement design, as we anticipate that the pavement subgrades will generally consist of fill materials containing clay. The following *generalized* parameters should be used to develop the design pavement section (which should be considered conservative in sandy areas):

TABLE 1

AASHTO classification	A-6
Frost group index	F-3
Design group index	14
Soil support value	4.0
Subgrade modulus; k (pci)	125
Estimated percent shrinkage	20 - 30
Estimated CBR value	5

Assuming the roadways are designated arterial and/or local business streets, we estimate the design daily ESALs (18,000 pound Equivalent Single Axle Loads) may range between 51 to 275 ESALs. A typical pavement design per WDOT Standard Specifications should meet E-3 requirements. For concrete pavement, a design subgrade modulus of 125 pci remains applicable. Greater truck and/or bus volumes could result in thicker pavements pending traffic counts. Special measures regarding drainage below the pavements do not appear necessary at this time due to the lack of near-surface groundwater.

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2. Utility Construction

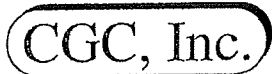
Based on the available soil and groundwater information, it appears that storm sewer construction can proceed using traditional open cut methods where possible. Directional drilling or pipe jacking is also feasible. The method selected should be compatible with the ability to dewater the site and the possible removal of boulders or bedrock. Dewatering may be required. It is expected that a trench shield and/or internal bracing will be used for the anticipated excavations. The following are our recommendations regarding trench excavation, dewatering, and backfilling:

- Excavation: Open cuts should be sloped and/or braced in accordance with OSHA Guidelines. Slopes of 1H:1V or flatter through the on-site fill and natural soils are expected to be at least temporarily stable. Temporary bracing should be designed by a registered professional engineer.
- Rock Removal: Special provisions for rock excavation do not appear necessary because bedrock was not encountered at any of the boring locations. Nonetheless, a unit rate cost should be established for rock removal using chiseling, etc., in the event that bedrock extends above pipe grades. Note that spoon/auger refusal occurred in two of the four borings performed for the 2003 "Willow Creek Storm Sewer" project.
- Dewatering: Based on observations made during the field investigation, dewatering could be necessary during excavations. Drawdowns of 1 to 2 ft can be accomplished using pumps operating from filtered sump pits. Greater drawdowns will require the use of well points, etc. Note that dewatering of silty sand soils (i.e., those designated "SM" on the boring logs) will be very slow and difficult.
- Pipe Support: If a utility alignment coincides with soft/loose conditions (such as those encountered within the clays at B3), we recommend that increased bedding thicknesses, possibly underlain by a geotextile, be considered. Any significantly organic soils should be removed/replaced with additional bedding from beneath all utilities.

3. Backfilling

Excavation backfilling may proceed using the following guidelines:

- A. Within public right of ways, we recommend that only granular materials be used as backfill per standard City of Madison requirements. Importation of sands will likely be necessary. Outside of roadway areas, both clayey and sandy excavation spoils may be used to backfill the utility trenches above the pipe and associated



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granular bedding material. However, we recommend that granular soils be used as backfill because they are relatively easy to place and compact in most weather conditions. The clayey soils of the site will require some moisture conditioning prior to placement and compaction, which could delay construction progress.

- B. Backfill material should be placed in accordance with recommendations presented in Appendix C of this report.

CONSTRUCTION CONSIDERATIONS

Due to variations in weather, construction methods and other factors, specific construction problems are difficult to predict. Soil related difficulties which could be encountered on the site are discussed below:

- Earthwork construction during the early spring or late fall could be complicated as the result of wet weather and freezing temperatures. Improvements should be performed during "dry" weather, if possible.
- During cold weather, exposed soils should be protected from freezing during construction. Fill should never be placed while frozen or on frozen ground.
- *Cobbles/boulders could be encountered during directional drilling that may hinder progress.*
- Care must be taken to not undermine the existing railroad embankment, roadways, buildings, etc. Underpinning/shoring may be necessary to accomplish this purpose.

RECOMMENDED CONSTRUCTION MONITORING

To check that construction proceeds in accordance with our recommendations, the following operations should be monitored by qualified individuals:

- Backfill placement and compaction during utility construction.



Mr. Greg Fries, P.E.
City of Madison Engineering Division
January 5, 2011
Page 6

It has been a pleasure to serve you on this project. If you have any questions or need additional consultation, please contact us.

Sincerely,

CGC, INC.

A handwritten signature in cursive script that reads "Michael N. Schultz".

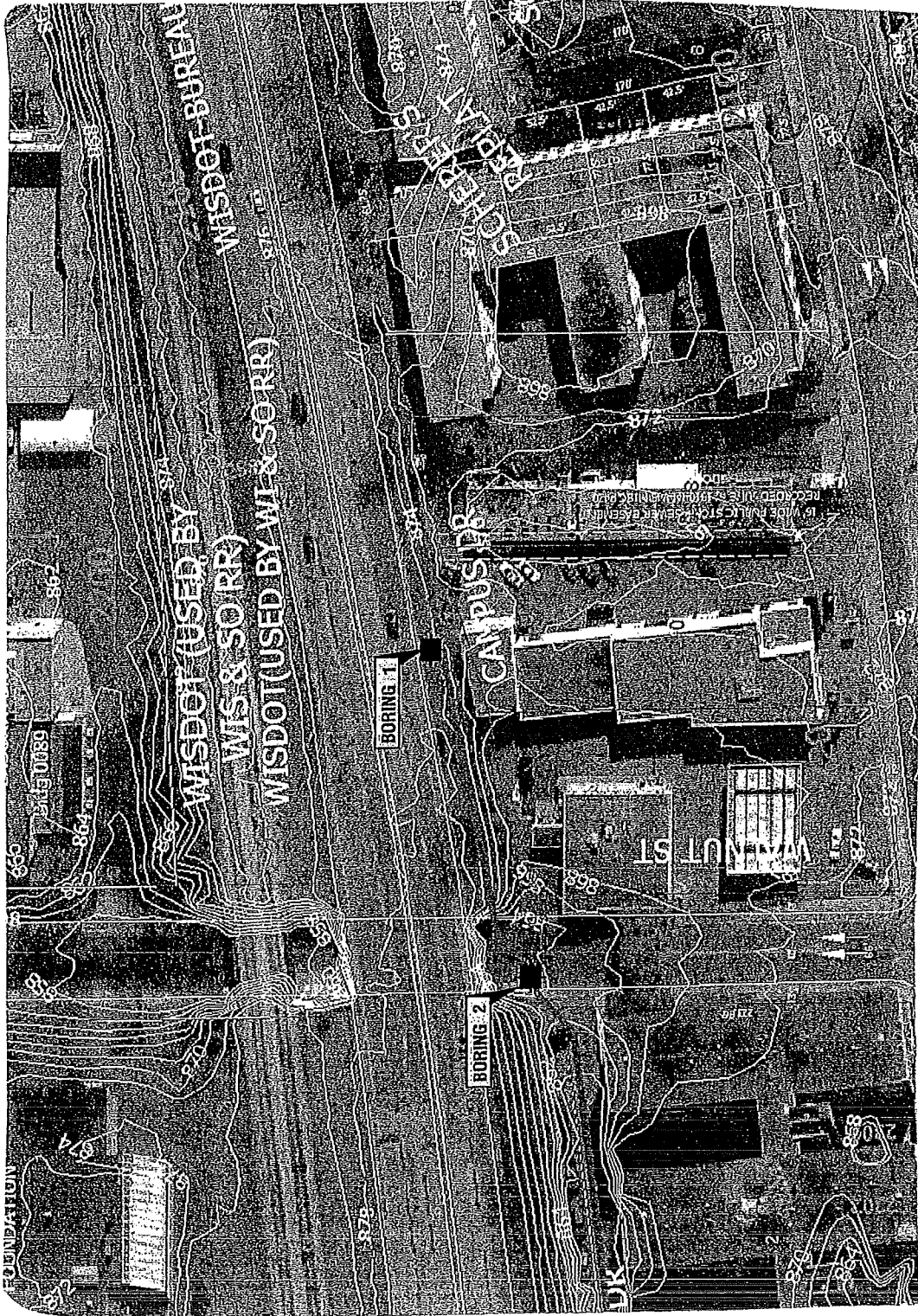
Michael N. Schultz, P.E.
Principal/Consulting Professional

Encl: Appendix A - Soil Boring Location Plans (2)
 Logs of Test Borings (3)
 Log of Test Boring-General Notes
 Unified Soil Classification System
 Appendix B - Document Qualifications
 Appendix C - Recommended Compacted Fill Specifications


cc: Ms. Janet Pien (pdf only)

APPENDIX A

**SOIL BORING LOCATION PLANS (2)
LOGS OF TEST BORINGS (3)
LOG OF TEST BORING-GENERAL NOTES
UNIFIED SOIL CLASSIFICATION SYSTEM**



Legend

 Denotes Boring Location (approximate)

Notes

1. Soil borings performed by Badger State Drilling in November 2010 (B2 and B3) or July 2003 (B1)
2. Page 2 of 2



SOIL BORING LOCATION MAP
Campus Drive Storm Sewer
Madison, Wisconsin

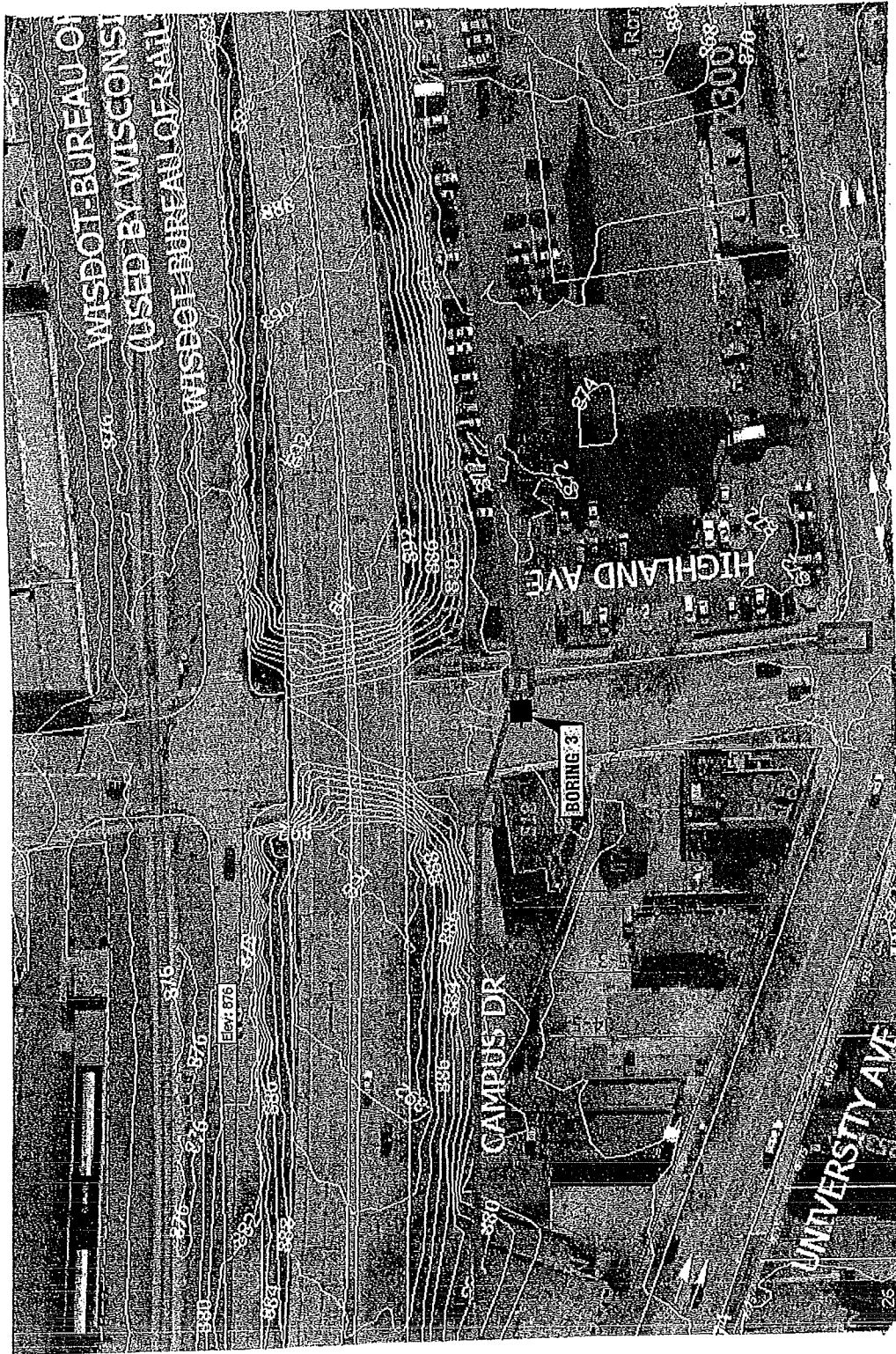
CGC, Inc.

C10041-42

Date: 12/10

APPD: MNS

DWN: -



Notes

1. Soil borings performed by Badger State Drilling in November 2010 (B2 and B3) or July 2003 (B1)
2. Page 1 of 2



Denotes Boring Location (approximate)

Legend



Denotes Boring Location (approximate)

SOIL BORING LOCATION MAP
 Campus Drive Storm Sewer
 Madison, Wisconsin

CGC, Inc.

DWN: -	APP'D: MNS	Date: 12/10	C10041-42
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LOG OF TEST BORING

Project Campus Drive Storm Sewer (Willow Creek)
Campus Drive and Walnut Street
 Location Madison, WI

Boring No. 1 (4)
 Surface Elevation (ft).....
 Job No. C10041-42 (C03040-22)
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
1	16	M	12	0-16	FILL: Intermixed Sand, Clay, Silt and Gravel, Concrete Slab Noted at 6 ft to 6.7 ft±					
2	18	M	12	16-18						
3	0	M	100/0	18-0						
4	18	M	19	0-18						
				10-15	Stiff, Dark Gray to Black Lean CLAY (CL) (Possible Buried Topsoil in Upper Portion)					
5	8	M	19	15-18	Medium Dense, Gray to Brown Fine to Medium SAND, Some Silt and Gravel (SM)					
6	18	M	17	18-20						
				20-25	Dense to Very Dense, Brown to Gray-Brown Fine to Medium SAND, Some Silt and Gravel (SM) Scattered Clayey Sand Seams					
7	18	M	52	25-28						
				28-30	End Boring at 30 ft Borehole backfilled with bentonite chips					
8	14	M	69	30-34						

WATER LEVEL OBSERVATIONS				GENERAL NOTES	
While Drilling	<input checked="" type="checkbox"/> NW	Upon Completion of Drilling	_____	Start	7/20/03 End 7/20/03
Time After Drilling	_____		_____	Driller	Badger Chief JT Rig B-59
Depth to Water	_____		_____	Logger	JT Editor MNS
Depth to Cave in	_____		_____	Drill Method	4 1/4" HSA
<small>The stratification lines represent the approximate boundary between soil types and the transition may be gradual.</small>					



LOG OF TEST BORING

Project Campus Drive Storm Sewer
Walnut: 255'N of Old University, 19'W of CL
 Location Madison, WI

Boring No. 2
 Surface Elevation (ft) 96.5**
 Job No. C10041-42
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL	LI
					X	6 in. Asphalt Pavement, 6 in. Base Course					
1		2	M	50/2" *	X	FILL: Brown Sand with Silt, Clay and Gravel					
2		12	M	15	5	Stiff, Brown-Gray Mottled Lean CLAY, Trace Fine Sand (CL)	(1.5)				
3		18	M	44		Dense, Brown Silty Fine SAND (SM)					
4		18	M	18	10	Medium Dense, Light Brown Silty Fine SAND (SM)					
					10	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel (SM)					
5X		18	M/W	27	15	Very Stiff, Brown Silty Lean CLAY (CL)	(2.5)				
5						Medium Dense, Brown Silty Fine to Medium SAND (SM)					
6		10	W	11	20	End Boring at 20 ft Borehole backfilled with bentonite chips *Sample 1 frozen					
					25	**Elevation determined using an assumed datum of 100.0 ft referencing the top nut of a hydrant situated along the east side of Walnut approximately 250'N of Old University					

WATER LEVEL OBSERVATIONS	
While Drilling ∇ <u>13.0</u>	Upon Completion of Drilling <u>13'</u>
Time After Drilling _____	<u>15 min.</u>
Depth to Water _____	<u>13.7</u> ∇
Depth to Cave in _____	

GENERAL NOTES	
Start <u>12/20/10</u>	End <u>12/20/10</u>
Driller <u>Badger</u>	Chief <u>KD</u> Rig <u>CME-55</u>
Logger <u>DC</u>	Editor <u>ESF</u>
Drill Method <u>4 1/4" FA</u>	

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



LOG OF TEST BORING

Project Campus Drive Storm Sewer
Highland: 200'N of Old University, 8'E of CL
 Location Madison, WI

Boring No. 3
 Surface Elevation (ft) 99.5**
 Job No. C10041-42
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					9.5 in. Concrete Pavement/6 in. Base Course					
1	3	M	50/3"	0-3	FILL: Brown Sand with Silt, Clay and Gravel					
2	16	M	11	3-16	Medium Stiff to Stiff, Brown Mottled Lean CLAY (CL) (Possible Fill to 5 ft)	(1.5)				
3	9	M	7	16-25	Soft to Medium Stiff Near 9 ft	(.75)				
4	16	M	8	25-31	Stiff, Light Brown Lean CLAY (CL)	(0.5)				
5	18	M/W	10	31-49	Very Stiff Gray Lean CLAY (CL)	(1.5)				
6	18	W	14	49-63	End Boring at 20 ft Borehole backfilled with bentonite chips *Sample 1 frozen (estimated to 1.5 ft) **Elevation determined using an assumed datum of 100.0 ft referencing the top nut of a hydrant situated at the southeast corner of the intersection of Old University and Highland	(2.75)				

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> NW Upon Completion of Drilling <u> </u> NW Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>12/20/10</u> End <u>12/20/10</u> Driller <u>Badger Chief</u> <u>KD</u> Rig <u>CME-55</u> Logger <u>DC</u> Editor <u>ESF</u> Drill Method <u>4 1/4" FA</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	

CGC, Inc.

LOG OF TEST BORING
General Notes

Descriptive Soil Classification

GRAIN SIZE TERMINOLOGY

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders	Larger than 12"	Larger than 12"
Cobbles	3" to 12"	3" to 12"
Gravel: Coarse	3/4" to 3"	3/4" to 3"
Fine	4.76 mm to 3/4"	#4 to 3/4"
Sand: Coarse	2.00 mm to 4.76 mm	#10 to #4
Medium	0.42 to mm to 2.00 mm	#40 to #10
Fine	0.074 mm to 0.42 mm	#200 to #40
Silt	0.005 mm to 0.074 mm	Smaller than #200
Clay	Smaller than 0.005 mm	Smaller than #200

Plasticity characteristics differentiate between silt and clay.

GENERAL TERMINOLOGY

Physical Characteristics
Color, moisture, grain shape, fineness, etc.
Major Constituents
Clay, silt, sand, gravel
Structure
Laminated, varved, fibrous, stratified, cemented, fissured, etc.
Geologic Origin
Glacial, alluvial, eolian, residual, etc.

RELATIVE DENSITY

Term	"N" Value
Very Loose	0-4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Over 50

RELATIVE PROPORTIONS OF OF COHESIONLESS SOILS

Proportional Term	Defining Range by Percentage of Weight
Trace	0%-5%
Little	5%-12%
Some	12%-35%
And	35%-50%

CONSISTENCY

Term	q _r tons/sq. ft.
Very Soft	0.0 to 0.25
Soft	0.25 to 0.50
Medium	0.50 to 1.0
Stiff	1.0 to 2.0
Very Stiff	2.0 to 4.0
Hard	Over 4.0

ORGANIC CONTENT BY COMBUSTION METHOD

Soil Description	Loss on Ignition
Non Organic	Less than 4%
Organic Silt/Clay	4-12%
Sedimentary Peat	12-50%
Fibrous and Woody Peat	More than 50%

PLASTICITY

Term	Plastic Index
None to Slight	0-4
Slight	5-7
Medium	8-22
High to Very High	Over 22

The penetration resistance, N, is the summation of the number of blows required to effect two successive 6" penetrations of the 2" split-barrel sampler. The sampler is driven with a 140 lb. weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test.

SYMBOLS

DRILLING AND SAMPLING

CS--Continuous Sampling
RC--Rock Coring: Size AW, BW, NW, 2"W
RQD--Rock Quality Designator
RB--Rock Bit
FT--Fish Tail
DC--Drove Casing
C--Casing: Size 2 1/2", NW, 4", HW
CW--Clear Water
DM--Drilling Mud
HSA--Hollow Stem Auger
FA--Flight Auger
HA--Hand Auger
COA--Clean-Out Auger
SS--2" Diameter Split-Barrel Sample
2ST--2" Diameter Thin-Walled Tube Sample
3ST--3" Diameter Thin-Walled Tube Sample
PT--3" Diameter Piston Tube Sample
AS--Auger Sample
WS--Wash Sample
PTS--Peat Sample
PS--Pitcher Sample
NR--No Recovery
S--Sounding
PMT--Borehole Pressuremeter Test
VS--Vane Shear Test
WPT--Water Pressure Test

LABORATORY TESTS

q_r--Penetrometer Reading, tons/sq. ft.
q_u--Unconfined Strength, tons/sq. ft.
W--Moisture Content, %
LL--Liquid Limit, %
PL--Plastic Limit, %
SL--Shrinkage Limit, %
LI--Loss on Ignition, %
D--Dry Unit Weight, lbs/cu. ft.
pH--Measure of Soil Alkalinity or Acidity
FS--Free Swell, %

WATER LEVEL MEASUREMENT

▽--Water Level at time shown
NW--No Water Encountered
WD--While Drilling
BCR--Before Casing Removal
ACR--After Casing Removal
CW--Caved and Wet
CM--Caved and Moist

Note: Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils.

UNIFIED SOIL CLASSIFICATION SYSTEM

COARSE-GRAINED SOILS

(More than half of material is larger than No. 200 sieve size.)

GRAVELS More than half of coarse fraction larger than No. 4 sieve size	Clean Gravels (Little or no fines)	
	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines
	Gravels with Fines (Appreciable amount of fines)	
	GM_u^d	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures
SANDS More than half of coarse fraction smaller than No. 4 sieve size	Clean Sands (Little or no fines)	
	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with Fines (Appreciable amount of fines)	
	SM_u^d	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures

FINE-GRAINED SOILS

(More than half of material is smaller than No. 200 sieve.)

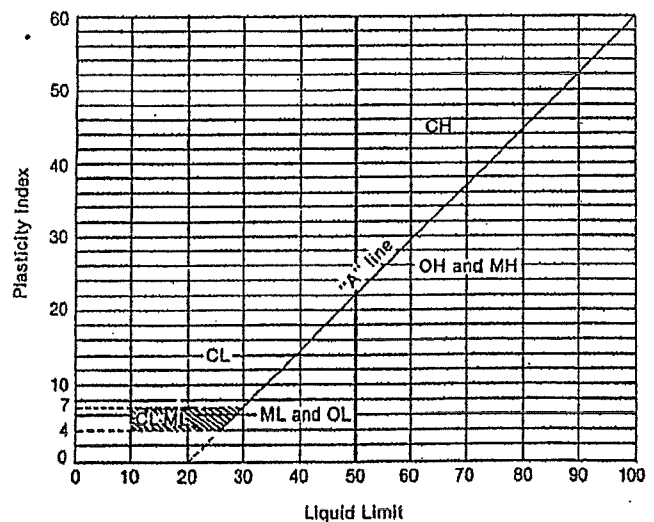
SILTS AND CLAYS Liquid limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit greater than 50%	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils

LABORATORY CLASSIFICATION CRITERIA

GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3	
GP	Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
GC	Atterberg limits above "A" line with P.I. greater than 7	
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3	
SP	Not meeting all gradation requirements for SW	
SM	Atterberg limits below "A" line or P.I. less than 4	Limits plotting in hatched zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
SC	Atterberg limits above "A" line with P.I. greater than 7	

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:
 Less than 5 per cent GW, GP, SW, SP
 More than 12 per cent GM, GC, SM, SC
 5 to 12 per cent Borderline cases requiring dual symbols

PLASTICITY CHART



For classification of fine-grained soils and fine fraction of coarse-grained soils.

Atterberg Limits plotting in hatched area are borderline classifications requiring use of dual symbols.

Equation of A-line: $PI = 0.73 (LL - 20)$

APPENDIX B
DOCUMENT QUALIFICATIONS

APPENDIX B

CGC, INC.

RECOMMENDED COMPACTED FILL SPECIFICATIONS

General Fill Materials

Proposed fill shall contain no vegetation, roots, topsoil, peat, ash, wood or any other non-soil material which by decomposition might cause settlement. Also, fill shall never be placed while frozen or on frozen surfaces. Rock, stone or broken concrete greater than 6 in. in the largest dimension shall not be placed within 10 ft of the building area. Fill used greater than 10 ft beyond the building limits shall not contain rock, boulders or concrete pieces greater than a 2 sq ft area and shall not be placed within the final 2 ft of finish subgrade or in designated utility construction areas. Fill containing rock, boulders or concrete pieces should include sufficient finer material to fill voids among the larger fragments.

Special Fill Materials

In certain cases, special fill materials may be required for specific purposes, such as stabilizing subgrades, backfilling undercut excavations or filling behind retaining walls. For reference, WisDOT gradation specifications for various types of granular fill are attached in Table 1.

Placement Method

The approved fill shall be placed, spread and leveled in layers generally not exceeding 10 in. in thickness before compaction. The fill shall be placed at moisture content capable of achieving the desired compaction level. For clay soils or granular soils containing an appreciable amount of cohesive fines, moisture conditioning will likely be required.

It is the Contractor's responsibility to provide all necessary compaction equipment and other grading equipment that may be required to attain the specified compaction. Hand-guided vibratory or tamping compactors will be required whenever fill is placed adjacent to walls, footings, columns or in confined areas.

Compaction Specifications

Maximum dry density and optimum moisture content of the fill soil shall be determined in accordance with modified Proctor methods (ASTM D1557). The recommended field compaction as a percentage of the maximum dry density is shown in Table 2. Note that these compaction guidelines would generally not apply to coarse gravel/stone fill. Instead, a method specification would apply (e.g., compact in thin lifts with a vibratory compactor until no further consolidation is evident).

Testing Procedures

Representative samples of proposed fill shall be submitted to CGC, Inc. for optimum moisture-maximum density determination (ASTM D1557) prior to the start of fill placement. The sample size should be approximately 50 lb.

CGC, Inc. shall be retained to perform field density tests to determine the level of compaction being achieved in the fill. The tests shall generally be conducted on each lift at the beginning of fill placement and at a frequency mutually agreed upon by the project team for the remainder of the project.

Table 1
Gradation of Special Fill Materials

Material	WisDOT Section 311	WisDOT Section 312	WisDOT Section 305			WisDOT Section 209		WisDOT Section 210
	Breaker Run	Select Crushed Material	3-in. Dense Graded Base	1 1/4-in. Dense Graded Base	3/4-in. Dense Graded Base	Grade 1 Granular Backfill	Grade 2 Granular Backfill	Structure Backfill
Sieve Size	Percent Passing by Weight							
6 in.	100							
5 in.		90-100						100
3 in.			90-100					
1 1/2 in.		20-50	60-85					
1 1/4 in.				95-100				
1 in.					100			
3/4 in.			40-65	70-93	95-100			
3/8 in.				42-80	50-90			
No. 4			15-40	25-63	35-70	100 (2)	100 (2)	25-100
No. 10		0-10	10-30	16-48	15-55	75 (2)		
No. 40			5-20	8-28	10-35	15 (2)	30 (2)	
No. 200			2-12	2-12	5-15	8 (2)	15 (2)	15 (2)

Notes:

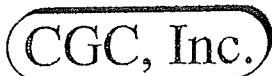
1. Reference: Wisconsin Department of Transportation *Standard Specifications for Highway and Structure Construction*.
2. Percentage applies to the material passing the No. 4 sieve, not the entire sample.
3. Per WisDOT specifications, both breaker run and select crushed material can include concrete that is 'substantially free of steel, building materials and other deleterious material'.

Table 2
Compaction Guidelines

Area	Percent Compaction (1)	
	Clay/Silt	Sand/Gravel
<u>Within 10 ft of building lines</u>		
Footing bearing soils	93 - 95	95
Under floors, steps and walks		
- Lightly loaded floor slab	90	90
- Heavily loaded floor slab and thicker fill zones	92	95
<u>Beyond 10 ft of building lines</u>		
Under walks and pavements		
- Less than 2 ft below subgrade	92	95
- Greater than 2 ft below subgrade	90	90
Landscaping	85	90

Notes:

1. Based on Modified Proctor Dry Density (ASTM D 1557)



Construction • Geotechnical
Consulting Engineering/Testing

January 23, 2013
C10041-42

Ms. Sally Swenson
City of Madison Engineering Division
Room 115, City-County Building
210 Martin Luther King Jr. Blvd.
Madison, WI 53703

Re: Geotechnical Exploration
Campus Drive Storm Sewer Project
Madison, Wisconsin

Dear Ms. Swenson:

Construction • Geotechnical Consultants, Inc. (CGC) has completed a supplemental geotechnical exploration program for the project referenced above. The purpose of this exploration was to evaluate the subsurface conditions between areas previously explored as well as to conduct additional laboratory analyses on recovered soils. In addition, a monitoring well was set within one of the borings.

PROJECT DESCRIPTION

We understand that the planned continuation of a storm sewer utility line along the south side of the Campus Drive embankment has undergone several revisions which include a larger diameter pipe and deeper invert elevations. The portion of the line addressed by this exploration begins at Highland Avenue and extends east to Walnut Street. We understand a launching pit is to be excavated within Highland Avenue and a receiving pit will be necessary at Walnut Street. Pipe invert grades are anticipated to be as shallow as 15 ft below grade to the west of Walnut Street (where the alignment will extend below an existing retaining wall) and approach 30 ft below grade within the embankment to the east of Highland Avenue. We understand construction methods will involve directional drilling/tunneling between the pits.

SUBSURFACE CONDITIONS

The subsurface conditions were explored by drilling two Standard Penetration Test (SPT) borings to depths of 28.9 ft and 25.5 ft below existing site grades along/near the aforementioned alignment. The requested boring depths of 30 ft were selected by City personnel. Note that both B4 and B5 terminated short of the requested depths due to spoon and auger refusal (respectively) on competent bedrock. The soil borings were conducted by Badger State Drilling (under subcontract to CGC) on January 9, 2013 using a truck-mounted drill rig equipped with hollow stem augers. The soil samples were obtained at 2.5 ft intervals in the upper 10 ft and 5 ft intervals thereafter following standard penetration test (SPT) procedures per ASTM D1586.

CGC, Inc.

Ms. Sally Swenson
City of Madison Engineering Division
January 23, 2013
Page 2


Requested laboratory tests were performed on recovered soils or estimated for parameters which require soil volumes in excess of those produced by the drilling techniques employed. Results for laboratory tests are included on the individual boring logs or attached separately. Other estimated soil properties are included in Table A-1. As stated, a monitoring well was set at B5 for purposes of continuing groundwater observations and to aid in determining hydraulic conductivity. Baildown tests were performed within the well on January 10 and again on January 18 which yielded an estimated hydraulic conductivity for the weathered sandstone at 6.9×10^{-4} cm/sec. This value is considered approximate, and allowances should be made for variations in stratigraphy as well as seasonal fluctuations of groundwater levels, etc. Variations by an order of magnitude above and below this value could be possible depending on variables such as silt content, fractures/joints in the sandstone bedrock and other factors.

The boring locations are shown on a Soil Boring Location Plan (copy attached in Appendix A). The locations were selected by City personnel and field located by CGC. Elevations at B4 and B5 were determined using benchmarks provided by the City.

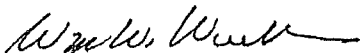
It has been a pleasure to serve you on this project. If you have any questions or need additional consultation, please contact us.

Sincerely,

CGC, Inc.



Eric S. Fair
Staff Engineer/Geologist

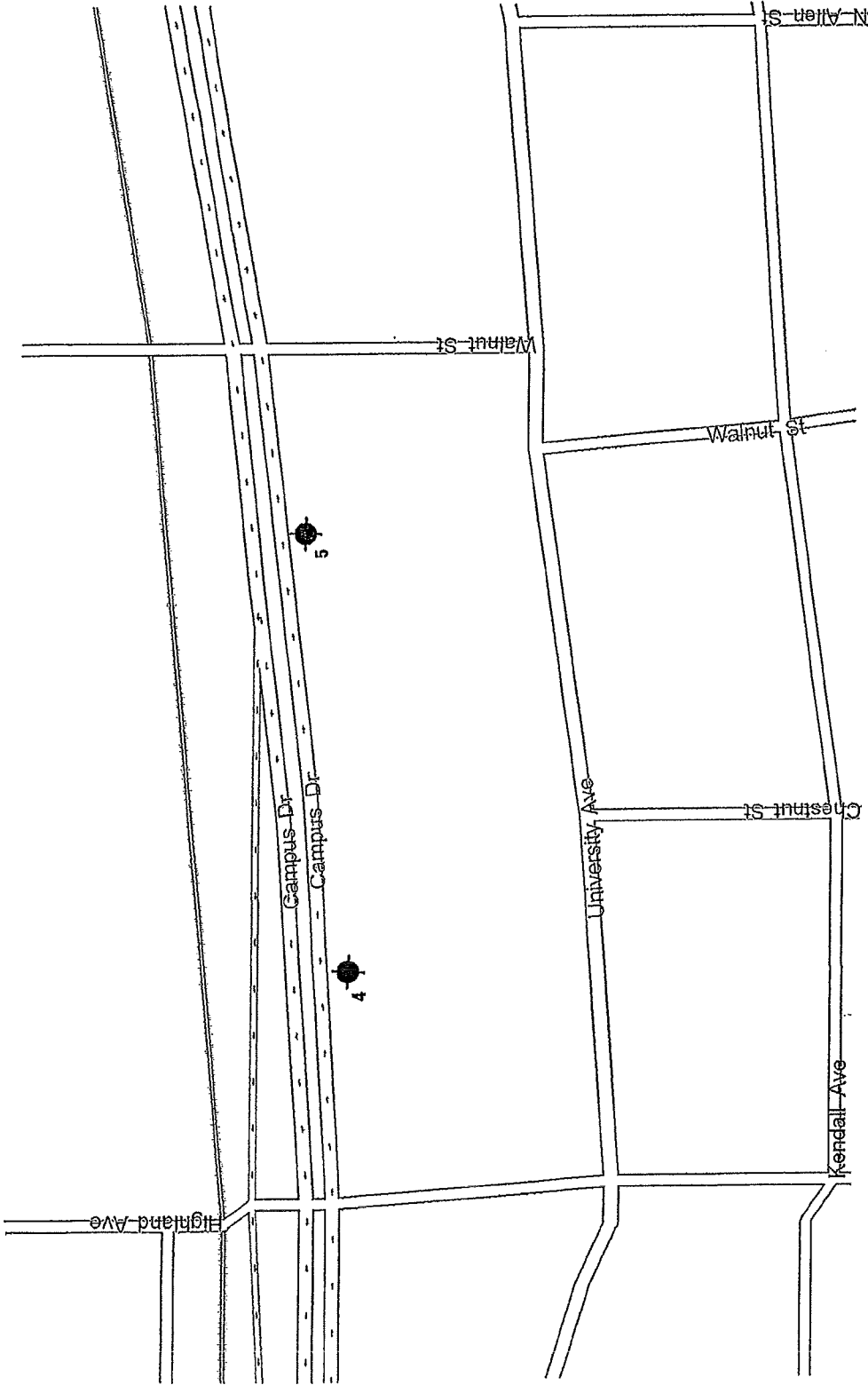


William Wuellner, P.E.
Senior Geotechnical Engineer

Encl: Appendix A - Soil Boring Location Plan
Logs of Test Borings (2)
Particle Size Distribution Test Reports (5)
Table A-1
Log of Test Boring-General Notes
Unified Soil Classification System

APPENDIX A

**SOIL BORING LOCATION PLAN
LOGS OF TEST BORINGS (2)
PARTICLE SIZE DISTRIBUTION TEST REPORTS (5)
TABLE A-1
LOG OF TEST BORING-GENERAL NOTES
UNIFIED SOIL CLASSIFICATION SYSTEM**



Legend



Denotes Boring Location (approximate)



Notes

1. Soil borings performed by Badger State Drilling in January 2013

SOIL BORING LOCATION PLAN Campus Drive Storm Sewer Madison, Wisconsin	
CGC, Inc.	
DWN: -	APP'D: MNS
Date: 1/13	C10041-42



LOG OF TEST BORING

Project Campus Drive Storm Sewer
240'E of Highland Avenue
 Location Madison, Wisconsin

Boring No. 4
 Surface Elevation (ft) 872.5'
 Job No. C10041-42
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7897

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	HY PER RE	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					3 in. Asphalt Pavement/6 in. Base Course					
1		18	M	12	FILL: Brown Silty Fine Sand to 3 ft					
					Mix of Brown Silty Sand, Clay and Gravel to 5.5 ft					
2A 2B		18	M	13						
					Stiff, Dark Gray and Black Mottled Organic CLAY (OL)	(1.75) (1.25)	33.1 25.0			
3A 3B		18	M	5						
					Stiff, Gray Lean CLAY, Trace to Little Sand, Occasional Plant Fibers (CL)					
4A 4B		18	M	5		(1.5)	25.0	45	19	
					Loose, Gray Fine to Medium SAND, Little to Some Silt (SP-SM/SM)					
					Medium Stiff to Stiff, Brown Lean CLAY (CL)					
5		18	M	8		(1.0)	19.3	29	15	
6		18	M	13		(1.5)	9.8			
					Medium Dense, Light Brown Fine to Medium SAND, Some Silt, Little Gravel (SM)					
7A 7B		18	W	52			19.5			
					Very Dense, Light Gray-Tan Fine SAND, Trace to Little Silt (SP/SP-SM) (Weathered to Competent Sandstone Bedrock)					
					Firm to Hard Drilling Reported Beginning at 27 ft					
8		2	W	100/3	End of Boring at 28.9 ft					
					Backfilled with Bentonite Chips and Asphalt Patch					

WATER LEVEL OBSERVATIONS				GENERAL NOTES	
While Drilling	<u>∇ 23.5'</u>	Upon Completion of Drilling	<u>25.5'</u>	Start	<u>1/9/13</u> End <u>1/9/13</u>
Time After Drilling	<u>15 min.</u>			Driller	<u>BSD</u> Chief <u>KD</u> Rig <u>CME-55</u>
Depth to Water	<u>24'</u>			Logger	<u>GM</u> Editor <u>ESF</u>
Depth to Cave in	<u>24.5'</u>			Drill Method	<u>2.25" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.					



LOG OF TEST BORING

Project Campus Drive Storm Sewer
180'W of Walnut Street
 Location Madison, Wisconsin

Boring No. 5
 Surface Elevation (ft) 861.8'
 Job No. C10041-42
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

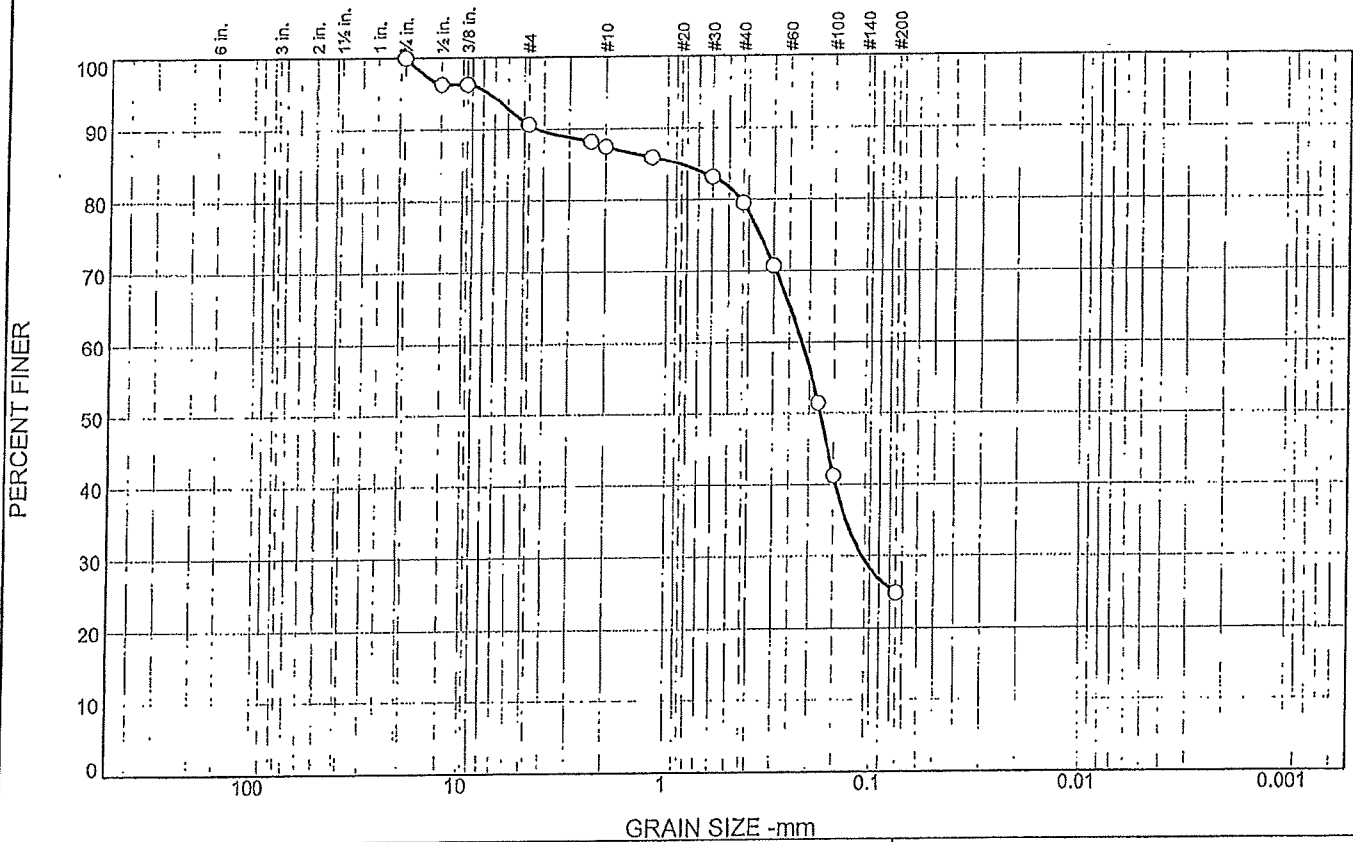
SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	w	LL	PL	LI
				0	X	3 in. Asphalt Pavement/6 in. Base Course				
1A 1B	18	M	13	13	X	FILL: Dark Gray and Black Clay with Sand and Gravel to 2 ft, Brown and Dark Gray silty Sand with Gravel and Clay to 3 ft				
2	18	M	10	10	X	Loose to Medium Dense, Light Brown Sandy SILT with Seams of Soft Lean Clay (ML/CL)				
3	18	M	11	11	X	Medium Dense, Brown Silty Fine to Coarse SAND, Some Clay, Little Gravel, Scattered Cobbles and Boulders (SM)				
4	18	M	14	14	X	Medium Dense, Light Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
5	18	VM	49	15	X	Dense to Very Dense, Light Gray-Tan Fine Sand, Trace to Little Silt and Gravel (SP/SP-SM) (Weathered to Competent Sandstone Bedrock)				
6A 6B	18	W	48	20	X	21.3				
7	1	W	50/2"	25	X	Firm to Hard Drilling Reported Beginning at 23 ft				
					X	End of Boring at 25.5 ft Due to Auger Refusal on Competent Bedrock				
					X	Set 2 in. Diameter Monitoring Well with Flush Mount Protector at 22.5 ft				

WATER LEVEL OBSERVATIONS				
While Drilling	▽ 15.0'	Upon Completion of Drilling		
Time After Drilling	4 hrs	1/10/13	1/18/13	
Depth to Water	13.2'	13.1'	13.1'	▽
Depth to Cave in				

GENERAL NOTES				
Start	1/9/13	End	1/9/13	
Driller	BSD	Chief	KD	Rig CME-55
Logger	MC	Editor	ESF	
Drill Method	4.25" HSA; Autohammer			

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	9.4	3.1	8.0	54.6	24.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4	100.0		
1/2	96.3		
3/8	96.3		
#4	90.6		
#8	88.1		
#10	87.5		
#16	85.9		
#30	83.2		
#40	79.5		
#50	70.7		
#80	51.5		
#100	41.2		
#200	24.9		

Material Description

Light Brown Fine to Medium Sand, Some Silt, Little Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 4.3495 D₈₅= 0.8748 D₆₀= 0.2163
D₅₀= 0.1753 D₃₀= 0.1089 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

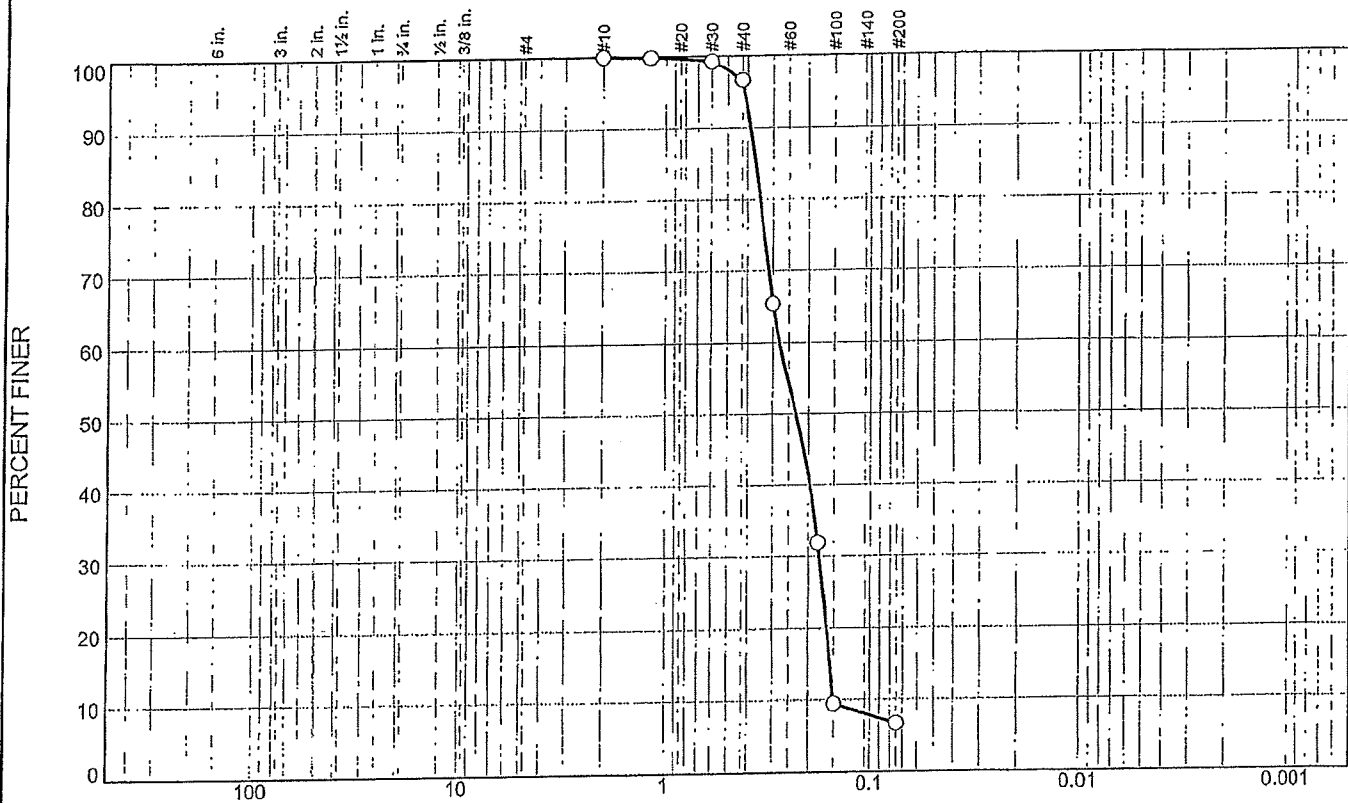
* (no specification provided)

Sample Number: B4 S6

Date: 1/16/13

	<p>Client: City of Madison Project: Campus Drive Storm Sewer Project No: C10041-42</p>
Figure	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	3.3	90.0	6.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#16	99.9		
#30	99.3		
#40	96.7		
#50	65.5		
#80	31.9		
#100	9.5		
#200	6.7		

Material Description

Light Gray-Tan Fine Sand, Little Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.3876 D₈₅= 0.3673 D₆₀= 0.2778
D₅₀= 0.2295 D₃₀= 0.1770 D₁₅= 0.1572
D₁₀= 0.1507 C_u= 1.84 C_c= 0.75

Classification

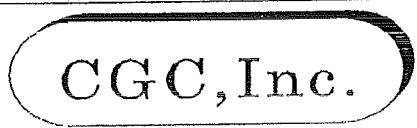
USCS= SP-SM AASHTO=

Remarks

* (no specification provided)

Sample Number: B4 S7B

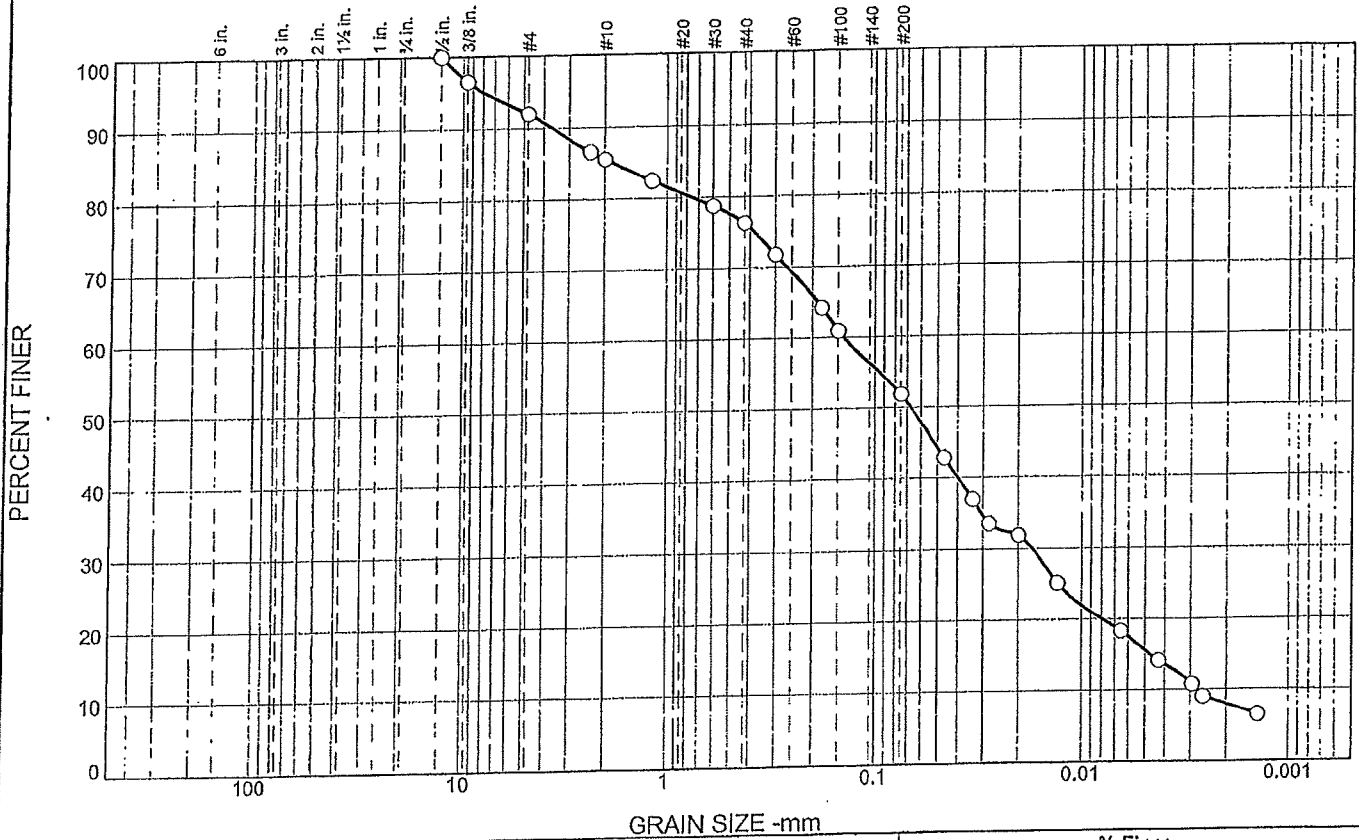
Date: 1/16/13



Client: City of Madison
Project: Campus Drive Storm Sewer
Project No: C10041-42

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	8.0	6.5	9.2	24.5	36.2	15.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2	100.0		
3/8	96.5		
#4	92.0		
#8	86.5		
#10	85.5		
#16	82.4		
#30	78.7		
#40	76.3		
#50	71.8		
#80	64.2		
#100	60.9		
#200	51.8		

Material Description

Brown Silty Fine to Coarse Sand, Some Clay, Little Gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 3.6566 D₈₅= 1.8461 D₆₀= 0.1418
D₅₀= 0.0673 D₃₀= 0.0171 D₁₅= 0.0047
D₁₀= 0.0028 C_u= 51.12 C_c= 0.74

Classification

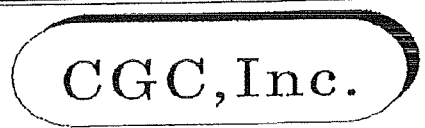
USCS= SM AASHTO=

Remarks

* (no specification provided)

Sample Number: B5 S3

Date: 1/17/13



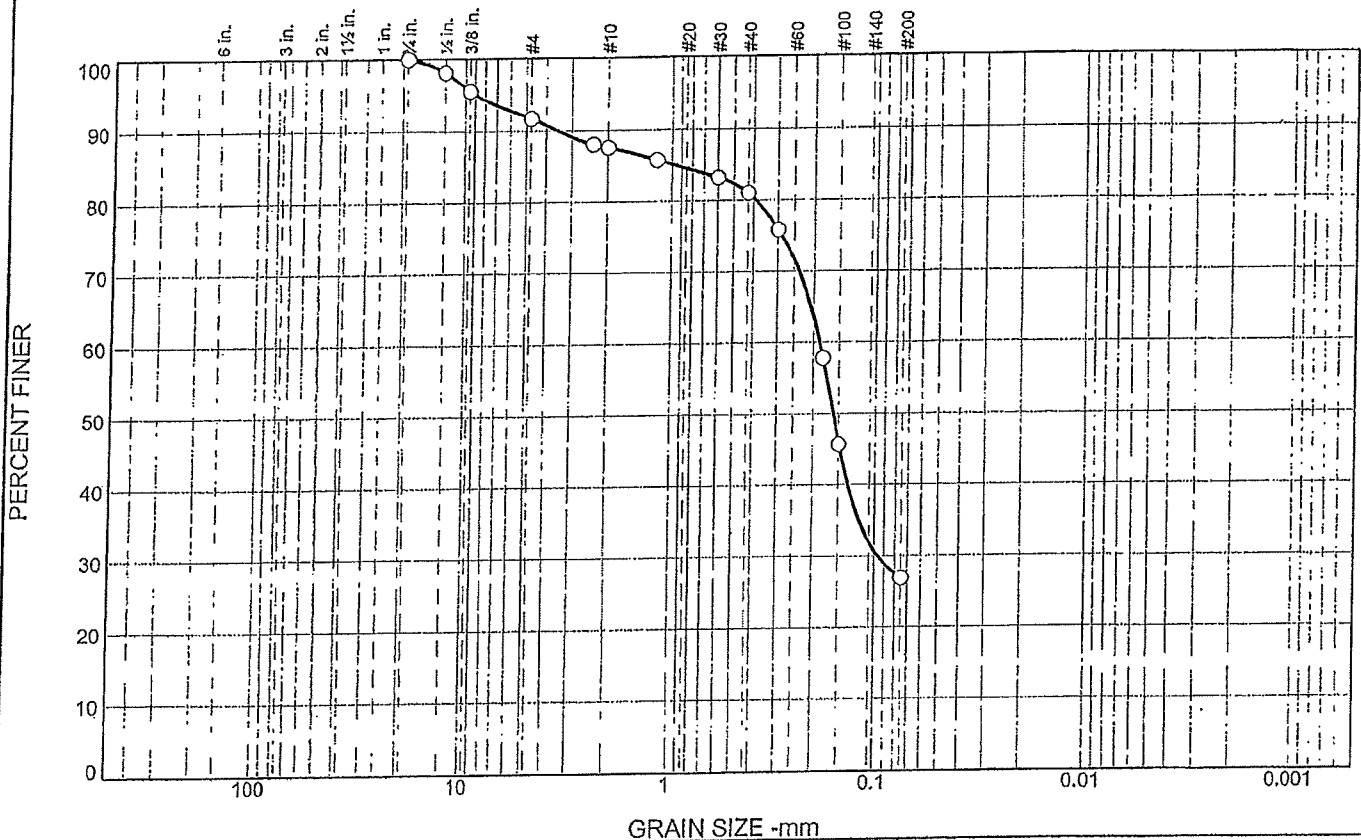
Client: City of Madison
Project: Campus Drive Storm Sewer
Project No: C10041-42

Figure

Tested By: KJS

Checked By: DAS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	8.3	4.1	6.6	54.1	26.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4	100.0		
1/2	98.1		
3/8	95.5		
#4	91.7		
#8	88.0		
#10	87.6		
#16	85.7		
#30	83.2		
#40	81.0		
#50	75.8		
#80	57.8		
#100	45.7		
#200	26.9		

Material Description

Light Brown Fine to Medium Sand, Some Silt, Little Gravel

Atterberg Limits
 PL= _____ LL= _____ PI= _____

Coefficients
 D₉₀= 3.5366 D₈₅= 0.9638 D₆₀= 0.1868
 D₅₀= 0.1602 D₃₀= 0.0967 D₁₅= _____
 D₁₀= _____ C_u= _____ C_c= _____

Classification
 USCS= SM AASHTO= _____

Remarks

* (no specification provided)

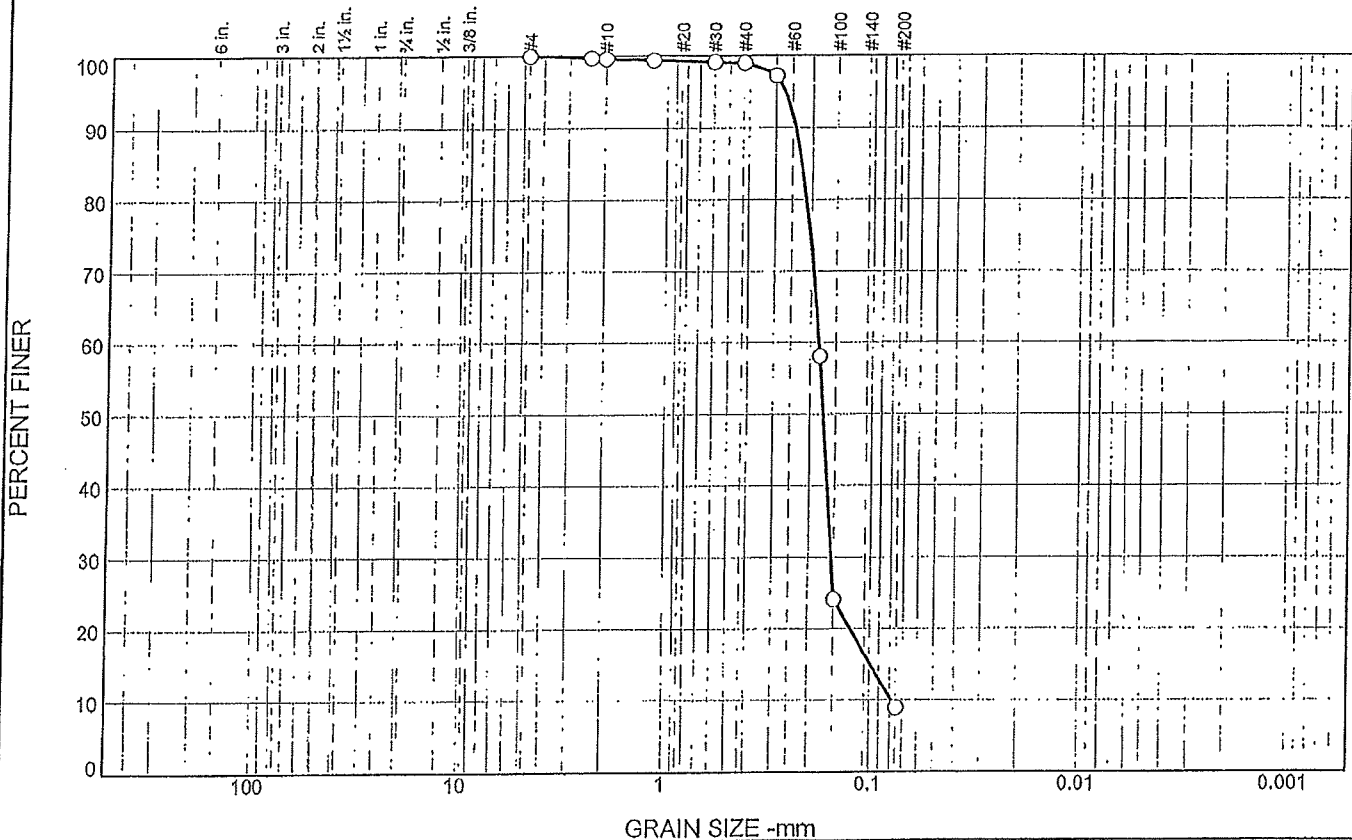
Sample Number: B5 S4

Date: 1/16/13

	Client: City of Madison Project: Campus Drive Storm Sewer Project No: C10041-42	Figure _____
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Tested By: KJS Checked By: DAS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.4	0.6	90.1	8.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.7		
#10	99.6		
#16	99.4		
#30	99.1		
#40	99.0		
#50	97.3		
#80	58.1		
#100	24.1		
#200	8.9		

Material Description

Light Gray-Tan Fine Sand, Little Silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.2409 D₈₅= 0.2239 D₆₀= 0.1820
D₅₀= 0.1722 D₃₀= 0.1552 D₁₅= 0.0990
D₁₀= 0.0788 C_u= 2.31 C_c= 1.68

Classification

USCS= SP-SM AASHTO=

Remarks

* (no specification provided)

Sample Number: B5 S6B

Date: 1/16/13

	<p>Client: City of Madison</p> <p>Project: Campus Drive Storm Sewer</p> <p>Project No: C10041-42</p>	<p>Figure</p>
--	--	---------------

Tested By: KJS

Checked By: DAS

Table A-1
Estimated Soil Properties for Major Soil Layers (5)
Campus Drive Storm Sewer, Madison, WI

Soil Property	Fill	Clay	Sand/Sandy Silt	Weathered Sandstone	Notes
Unit Weight, lb/cu ft					(1)
Moist/Saturated	130	120	135	130	
Submerged	68	58	73	68	
Shear Strength Parameters					
Cohesion, lb/cu ft	0	1000	0	50	(2)
Friction Angle, degrees	26°	0°	30°	38°	(3)
Relative Compressibility	Low	Low	Low	Very Low	(4)

Notes:

- (1) Unit weights were determined by laboratory measurements on intact clay and sand samples, where possible, or on remolded sand samples or otherwise estimated based on past experience.
- (2) Cohesion estimates are based on approximate unconfined compressive strengths or estimated from past experience.
- (3) Friction angles are based on correlations with SPT N-values.
- (4) Relative compressibility is based on past experience, moisture contents and SPT N-values.
- (5) For other soil properties, refer to soil boring logs and particle size distribution reports included with this table.

CONTAMINATED SOIL DATA

GIS REGISTRY INFORMATION

SITE NAME:	Octopus Car Wash			FID #	
BRRTS #:	03-13-002759			(if appropriate):	
COMMERCE # (if appropriate):	53726-3807-02				
CLOSURE DATE:	December 13, 2005				
STREET ADDRESS:	2202 University Avenue				
CITY:	Madison				
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	X =	566889	Y =	289066	
CONTAMINATED MEDIA:	Groundwater	<input type="checkbox"/>	Soil	<input type="checkbox"/>	Both <input checked="" type="checkbox"/>
OFF-SOURCE GW CONTAMINATION >ES:	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
• IF YES, STREET ADDRESS:	2130 University Avenue, Madison				
• GPS COORDINATES (meters in WTM91 projection):	X =	566933	Y =	289073	
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
• IF YES, STREET ADDRESS 1:	2130 University Avenue, Madison				
• GPS COORDINATES (meters in WTM91 projection):	X =	566933	Y =	289073	
CONTAMINATION IN RIGHT OF WAY:	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
<u>DOCUMENTS NEEDED</u>					
Closure Letter, and any conditional closure letter issued or denial letter issued.					<input checked="" type="checkbox"/>
Copy of most recent deed, including legal description, for all affected properties					<input checked="" type="checkbox"/>
Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties					<input checked="" type="checkbox"/>
County Parcel ID number, if used for county, for all affected properties					<input checked="" type="checkbox"/>
<small>251-0709-222-0503-8 251-0709-222-0503-6</small>					<input checked="" type="checkbox"/>
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.					<input checked="" type="checkbox"/>
Detailed Site Map(s) for all affected properties , showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.					<input checked="" type="checkbox"/>
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
Tables of Latest Soil Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.					<input checked="" type="checkbox"/>
GW: Table of water level elevations, with sampling dates, and free product noted if present					<input checked="" type="checkbox"/>
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)					<input checked="" type="checkbox"/>
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour					<input checked="" type="checkbox"/>
Geologic cross-sections, if required for SI. (8.5x14" if paper copy)					<input checked="" type="checkbox"/>
RP certified statement that legal descriptions are complete and accurate.					<input checked="" type="checkbox"/>
Copies of off-source notification letters (if applicable)					<input checked="" type="checkbox"/>
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)					<input checked="" type="checkbox"/>
Copy of (soil or land use) deed restriction (s) or deed notice if any required as a condition of closure					<input type="checkbox"/> NA
Copy of any maintenance plan referenced in the deed restriction					<input type="checkbox"/> NA



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777
Fax #: (608) 267-1381
Jim Doyle, Governor
Mary P. Burke, Secretary

July 5, 2007

Michael O'Brien
University Car Wash Inc.
2202 University Avenue
Madison, Wisconsin 53726

RE: **Final Closure**

Commerce # 53726-3807-02-A DNR BRRTS # 03-13-002759
Octopus Car Wash, 2202 University Avenue, Madison

Dear Mr. O'Brien:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5405.

Sincerely,

Jon Heberer
Senior Hydrogeologist
Site Review Section

cc: David M. Lennon, P.E., Sentinel Environmental Services, LLC



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777
Fax #: (608) 267-1381
Jim Doyle, Governor
Mary P. Burke, Secretary

May 11, 2006

Michael O'Brien
University Car Wash Inc.
907 South Park Street
Madison, WI 53715

RE: **Conditional Case Closure**

Commerce # 53726-3807-02 DNR BRRTS # 03-13-002759
Octopus Car Wash, 2202 University Avenue, Madison

Dear Mr. O'Brien:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Sentinel Environmental Services, LLC, for the site referenced above. It is understood that residual soil and groundwater contamination remains on site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- All monitoring wells and must be properly abandoned. The appropriate documentation must be forwarded to the letterhead address.

This letter serves as your written notice of "no further action." Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5405.

Sincerely,

Jon Heberer
Senior Hydrogeologist
Site Review Section

cc: David Lennon, P.E., Sentinel Environmental Services, LLC

TABLE 2 (1 of 3)
ANALYTICAL RESULTS - SOIL
OCTOPUS CARMASH-2202 UNIVERSITY AVENUE
MADISON, WISCONSIN

Sample	NR 746 Table 1 Values	NR 720 RCL's	B-1-A	B-1-B	B-2-A	B-2-B	B-2-C	B-3-A	B-3-B	B-4-A	B-4-B	B-5-A	B-5-B	B-6-A	B-6-B
Soil			B-1		B-2		B-3		B-4		B-5		B-6		
Depth (feet)			7-9	13-15	8-11	12-18	21-24	7-9	17-18	8-11	17-18	8-11	15-18	7-9	15-17
Date			3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986	3/13/1986
SFO's (mg/kg)		100	410	13	1,000	2,240	1,500	<0.25	<0.25	<0.25	0.88	<0.24	<0.24	<0.23	<0.23
Total Lead (mg/kg)		50	10.5	12.5	13.5	5.9	5.2	8.1	3.5	12.7	4.3	18.6	3.6	2.7	84.5
VOC's (µg/kg)															
Benzene	8,500	5.5	430	120	1,700	3,040	<1,300	<25	38	<35	<25	<25	<25	<25	<25
p-Dichlorobenzene		1,000	1,000	86	50,000	18,000	22,000	<25	<25	<25	<25	<25	<25	<25	<25
m,p-Dichlorobenzene		1,000	1,000	<25	3,400	1,500	1,900	<25	<25	<25	<25	<25	<25	<25	<25
o-Dichlorobenzene		1,000	<25	<25	830	<160	<700	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	4,000	2,500	4,000	86	34,000	30,000	40,000	<25	<25	<25	<25	<25	<25	<25	<25
o-Toluenesulfonamide		1,000	1,000	49	5,900	3,780	4,300	<25	<25	<25	<25	<25	<25	<25	<25
o-Toluenesulfonamide		790	790	88	<1,700	2,500	2,000	<25	<25	<25	<25	<25	<25	<25	<25
p-Toluenesulfonamide		1,400	1,400	<25	1,900	<1,200	<1,000	<25	<25	<25	<25	<25	<25	<25	<25
o-Toluenesulfonamide		35 A	35 A	<25	830	880	820	<25	120 A	<25	<25	40 A	82 A	80 A	81 A
MTBE		290	290	140	5,500	4,480	4,000	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	2,700	400	1,300	48	12,000	8,840	7,300	<25	<25	<25	<25	<25	<25	<25	<25
p-Propyltoluene		2,000	2,000	89	19,000	12,000	19,000	<25	<25	<25	<25	<25	<25	<25	<25
Styrene		3,900	3,900	310	<1,000	840	<160	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene		445	445	89	<1,500	<1,200	<1,400	<25	<25	<25	<25	<25	<25	<25	<25
Toluene	38,000	1,500	1,500	31	32,000	49,000	86,000	<25	37	<25	<25	<25	<25	<25	<25
Trichlorofluoromethane		<32	<32	29	<1,000	870	<790	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-THM	88,000		4,900	620	110,000	59,000	71,000	<25	46	<25	<25	<25	<25	<25	<25
1,3,5-THM	11,000		<37	120	31,000	17,000	21,000	<25	<25	<25	<25	<25	<25	<25	<25
Total Xylenes	42,000	4,100	3,700	3,400	187,000	152,800	218,000	<25	706	<25	<25	290	230	130	83

ND = Not Detected
RCL's = Residual Contaminant Levels
NS = No Standard
Bold value indicates concentrations above the RCLs and/or the Table 1 value.
THM = trichloromethane
Ar = Arylene chloride is detected as a laboratory contaminant.
Table 1 Values are an indicator of free product in the soil pores

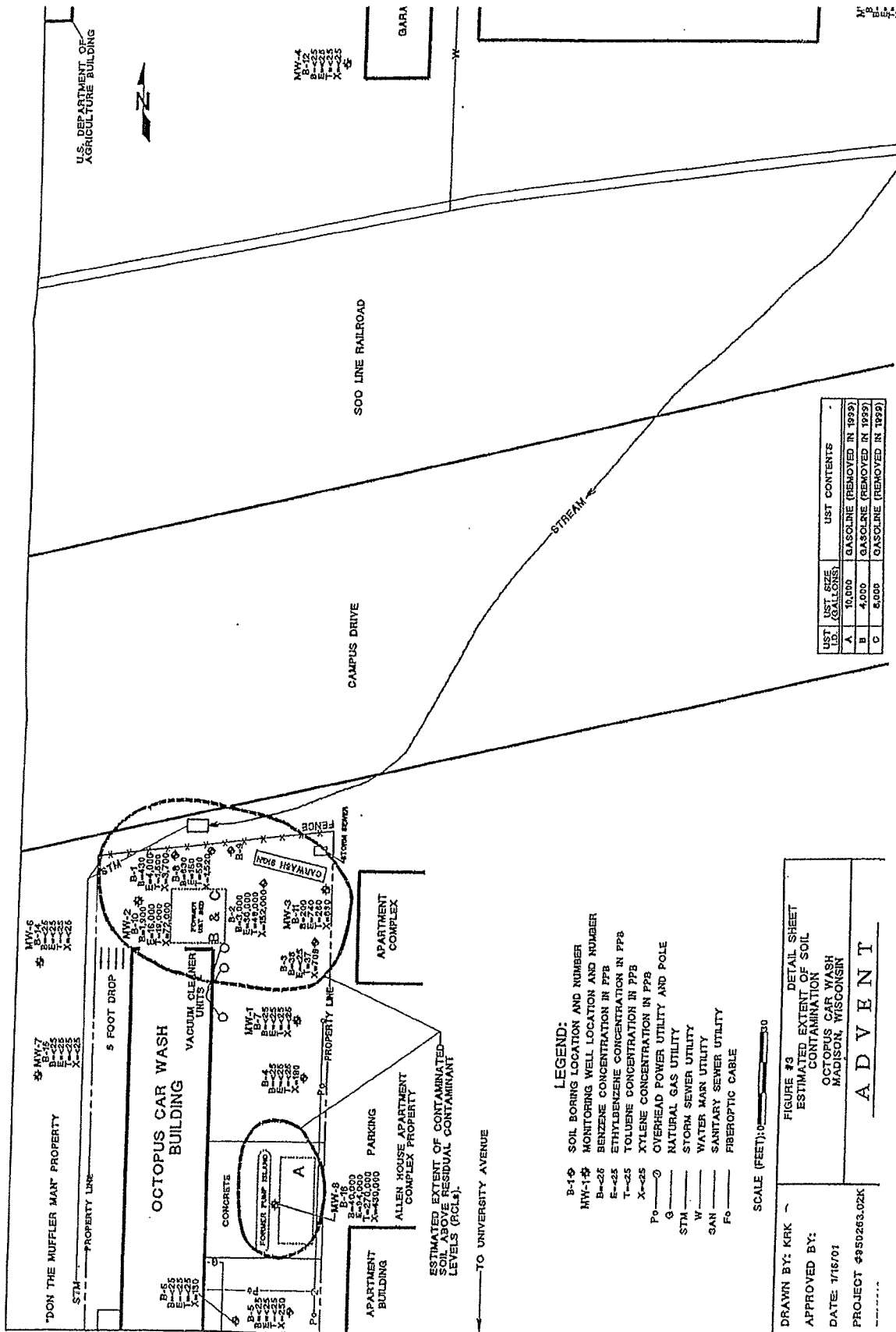
TABLE 2 (2 of 3)
ANALYTICAL RESULTS - SOIL
OCTOPUS CARWASH-2202 UNIVERSITY AVENUE
MADISON, WISCONSIN

Sample	NR 746 Table 1 Values	NR 720 RCL's	B-7A	B-7-B	B-7-C	B-8-A	E-10-A	E-10-B	B-10-C	E-11-A	B-11-B	B-11-C
Boring												
Depth (feet)			10-12	18-20	24-26	4-9	8-10	16-20	28-28	8-10	18-20	24-26
Date			5/8/1998	5/8/1998	5/8/1998	5/8/1998	5/8/1998	5/8/1998	5/8/1998	5/10/1998	5/10/1998	5/10/1998
CRGs (mg/kg)		100	<2.4	<2.2	<2.3	<2.2	<2.4	2,400	5,300	<2.5	140,000	43
Total Lead (mg/kg)		50	6.9	2.8	2.4	1.4	102	2.3	4.5	11.4	2.5	2.1
VOCs (µg/kg)												
Benzene	8,500	5.5	<2.5	<2.5	<2.5	839	560	1,900	2,300	<2.5	200	4,900
Bromomethane			46 A	<2.5	<2.5	<2.9	30 A	<580	<720	<2.5	<2.5	<140
n-Butylbenzene			<2.5	<2.5	<2.5	849	80	14,000	2,300	28	760	1,200
sec-Butylbenzene			<2.5	<2.5	<2.5	27	<2.5	860	<550	<2.5	110	110
tert-Butylbenzene			<2.5	<2.5	<2.5	<2.5	<2.5	<280	<350	<2.5	<2.5	<70
Ethylbenzene	4,600	2,900	<2.5	<2.5	<2.5	150	130	16,000	9,800	<2.5	740	2,900
Isopropylbenzene			<2.5	<2.5	<2.5	28	29	2,400	580	<2.5	180	210
Isopropylalcohol			<2.5	<2.5	<2.5	62	78	2,200	<630	<2.5	120	370
p-Isopropyltoluene			<2.5	<2.5	<2.5	<2.5	<2.5	<429	<520	<2.5	34	<100
Methylmethacrylate			53 A	50 A	58 A	110 A	82 A	890 A	880 A	<2.5	38 A	770 A
MTBE			<2.5	<2.5	<2.5	86	28	<2.5	<32	<2.5	120	<2.5
Naphthalene	2,700	400	<2.5	<2.5	<2.5	240	<2.5	1,800	1,000	<2.5	120	530
n-propylbenzene			<2.5	<2.5	<2.5	76	84	9,200	2,100	25	860	840
Styrene			31	<2.5	<2.5	260	180	3200	810	130	<2.5	310
Tetrachloroethene			<2.5	<2.5	<2.5	<2.5	<2.5	<456	<560	<2.5	<2.5	<110
Toluene	38,000	1,500	<2.5	<2.5	<2.5	569	150	19,000	63,000	65	260	13,000
Trichlorofluoromethane			<2.5	<2.5	<2.5	<2.5	<2.5	<329	<360	<2.5	94	<79
1,2,4-TMB	83,000		<2.5	<2.5	<2.5	2,000	1,000	45,000	13,000	48	1,100	4,900
1,3,5-TMB	11,000		<2.5	<2.5	<2.5	410	58	8,700	2,300	<2.5	280	740
Total Xylenes	42,000	4,100	<2.5	<2.5	<2.5	1,520	1,477	72,000	54,000	63	880	13,200

ND = Not Detected
RCL's = Residual Contaminant Levels
Bold value indicates concentrations above the RCL's and/or the Table 1 value.
TMB = trimethylbenzene
A = Bromomethane and methylene chloride is detected as a laboratory contaminant.

TABLE 2 (3 of 3)													
ANALYTICAL RESULTS - SOIL													
OCTOPUS CARWASH-2202 UNIVERSITY AVENUE													
MADISON, WISCONSIN													
Sample	NR 746 Table 1 Values	NR 720 RCL's	B-12-A	B-12-B	B-13-A	B-13-B	B-14-A	B-14-B	B-15-A	B-15-B	B-16-A	B-16-B	B-16-C
			B-12			B-13		B-14		B-15		B-16	
Boring			8-10	16-18	11-13	21-23	8-10	18-20	8-10	18-20	2-4	14-16	24-28
Depth (feet)			3/3/1997	3/3/1997	3/3/1997	3/3/1997	5/11/1998	5/11/1998	5/11/1998	5/11/1998	11/7/00	11/7/00	11/7/00
Date			<5.3	<5.6	<5.7	<5.5	<2.9	<2.8	<3.1	<2.9	5	11	3,900
GROs (mg/kg)	100		0.98	3.2	3.5	2	14	<3.8	11	<3.7	NA	NA	NA
Total Lead (mg/kg)	50												
VOCs (µg/kg)													
Benzene	8,500	5.5	<25	<25	<25	<25	<25	<25	<25	<25	31	<25	40,000
n-Butylbenzene			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
Ethylbenzene	4,600	2,900	<25	<25	<25	<25	<25	<25	<25	<25	63	520	94,000
Isopropylbenzene			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
Isopropylether			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
p-Isopropyltoluene			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
Methylchloride			<100	<100	<100	<100	<25	<25	<25	<25	NA	NA	NA
MTBE			<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	17,000
Naphthalene	2,700	400	<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
n-propylbenzene			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
Styrene			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
Tetrachloroethene			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
Toluene	38,000	1,500	<25	<25	<25	<25	<25	<25	<25	<25	190	410	270,000
Trichlorofluoromethane			<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
1,2,4 TMB	83,000		<25	<25	<25	<25	<25	<25	<25	<25	NA	NA	NA
1,3,5 TMB	11,000		<25	<25	<25	<25	<25	<25	<25	<25	320	910	170,000
Total Xylenes	42,000	4,100	<25	<25	<25	<25	<25	<25	<25	<25	140	250	52,000
			<25	<25	<25	<25	<25	<25	<25	<25	460	2,510	450,000

ND = Not Detected
 NS = No Standard
 RCL's=Residual Contaminant Levels
 Bold value indicates concentrations above the RCLs and/or the Table 1 value.
 TMB = trimethylbenzene



LIST	LIST SIZE (GALLONS)	LIST CONTENTS
A	10,000	GASOLINE (REMOVED IN 1999)
B	4,000	GASOLINE (REMOVED IN 1999)
C	5,000	GASOLINE (REMOVED IN 1999)

LEGEND:

- B-14-Ø SOIL BORING LOCATION AND NUMBER
- MM-15 MONITORING WELL LOCATION AND NUMBER
- B-25 BENZENE CONCENTRATION IN PPB
- E-25 ETHYLENE CONCENTRATION IN PPB
- T-25 TOLUENE CONCENTRATION IN PPB
- X-25 XYLENE CONCENTRATION IN PPB
- Po-Ø OVERHEAD POWER UTILITY AND POLE
- G-Ø NATURAL GAS UTILITY
- STM STORM SEWER UTILITY
- W-Ø WATER MAIN UTILITY
- SAN-Ø SANITARY SEWER UTILITY
- Fo-Ø FIBEROPTIC CABLE

SCALE (FEET): 0 30

ESTIMATED EXTENT OF CONTAMINATED SOIL ABOVE RESIDUAL CONTAMINANT LEVELS (RCLs).

DRAWN BY: KRK
 APPROVED BY:
 DATE: 1/16/01
 PROJECT #990263.02K

FIGURE #3
 DETAIL SHEET
 ESTIMATED EXTENT OF SOIL CONTAMINATION
 OCTOPUS CAR WASH
 MADISON, WISCONSIN

A D V E N T

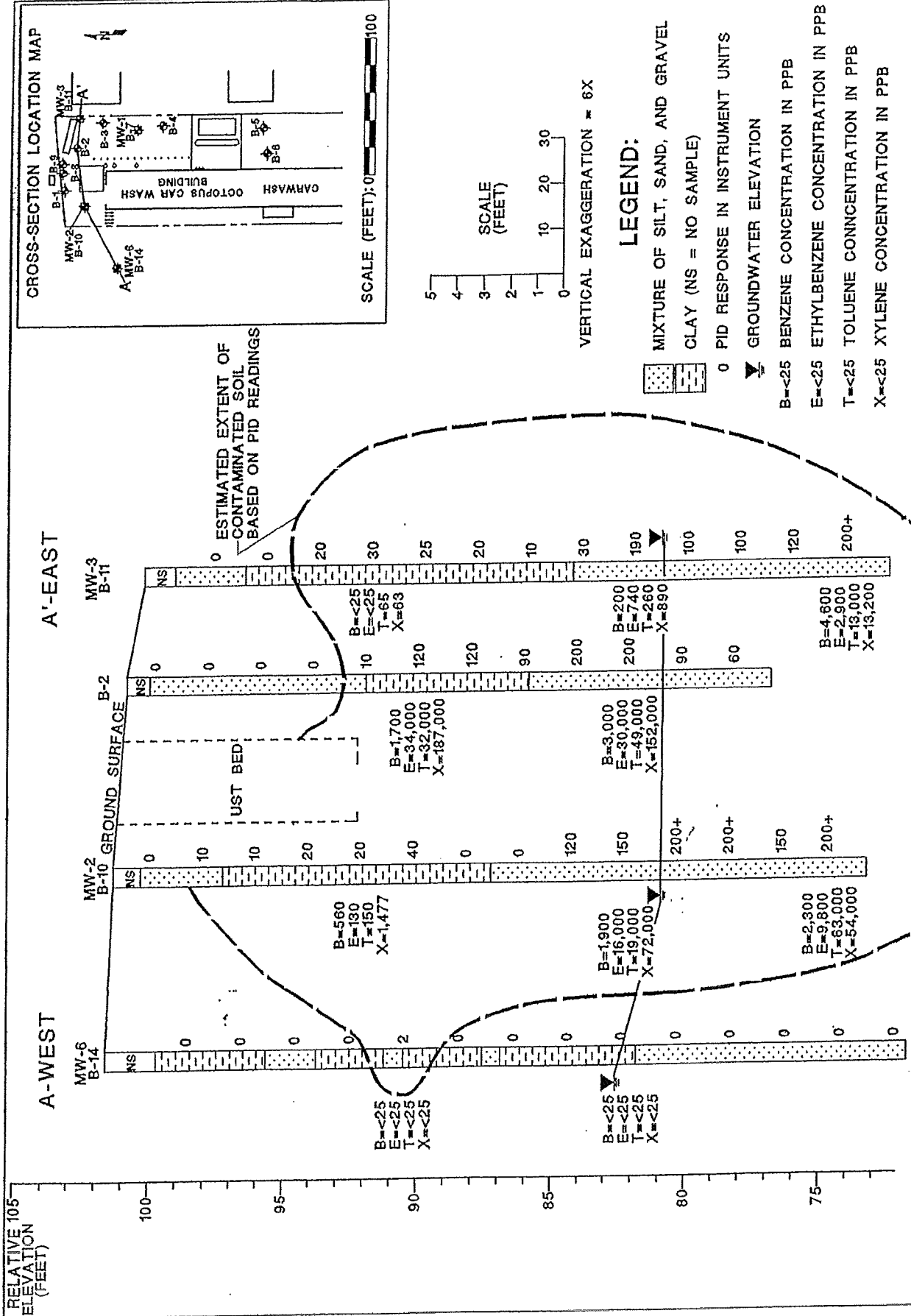


FIGURE 3 WEST TO EAST CROSS-SECTION A-A'
OCTOPUS CARWASH - UNIVERSITY AVENUE
MADISON, WISCONSIN

A D V E N T

ENVIRONMENTAL SERVICES, INC.
 DATE: 6/27/00
 DRAWING #950263.02H



Department of Public Works
City Engineering Division

608 266 4751

Robert F. Phillips, P.E.
City Engineer

City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
608 264 9275 FAX
1 866 704 2315 Textnet

Principal Engineers
Michael R. Dailey, P.E.
Christina M. Bachmann, P.E.
John S. Fahrney, P.E.
Gregory T. Fries, P.E.

Facilities & Sustainability
Jeanne E. Hoffman, Manager
James C. Whitney, A.I.A.

Operations Manager
Kathleen M. Cryan

GIS Manager
David A. Davis, R.L.S.

Financial Officer
Steven B. Danner-Rivers

Hydrogeologist
Brynn Bemis

February 14, 2013

NOTICE OF ADDENDUM

ADDENDUM NO. 1

CONTRACT NO. 7009

UNIVERSITY RELIEF STORM SEWER – PHASE 4

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

PLANS:

Remove and Replace pages U-5 through U-6.

The plans have been revised to better depict the existing structure at Campus Drive. The location of the storm sewer tap at the Campus Drive structure (S-1) was shifted slightly. No pipe lengths or grades have changed.

SPECIFICATIONS:

Add seven (7) pages as attachments to the Special Provisions. The sheets will be added after the Soil Data and Contaminated Soil Data sections and will appear under the heading Campus Drive Structure. These sheets are intended to provide additional information about the Campus Drive Structure to be used in the shoring and storm tap design.

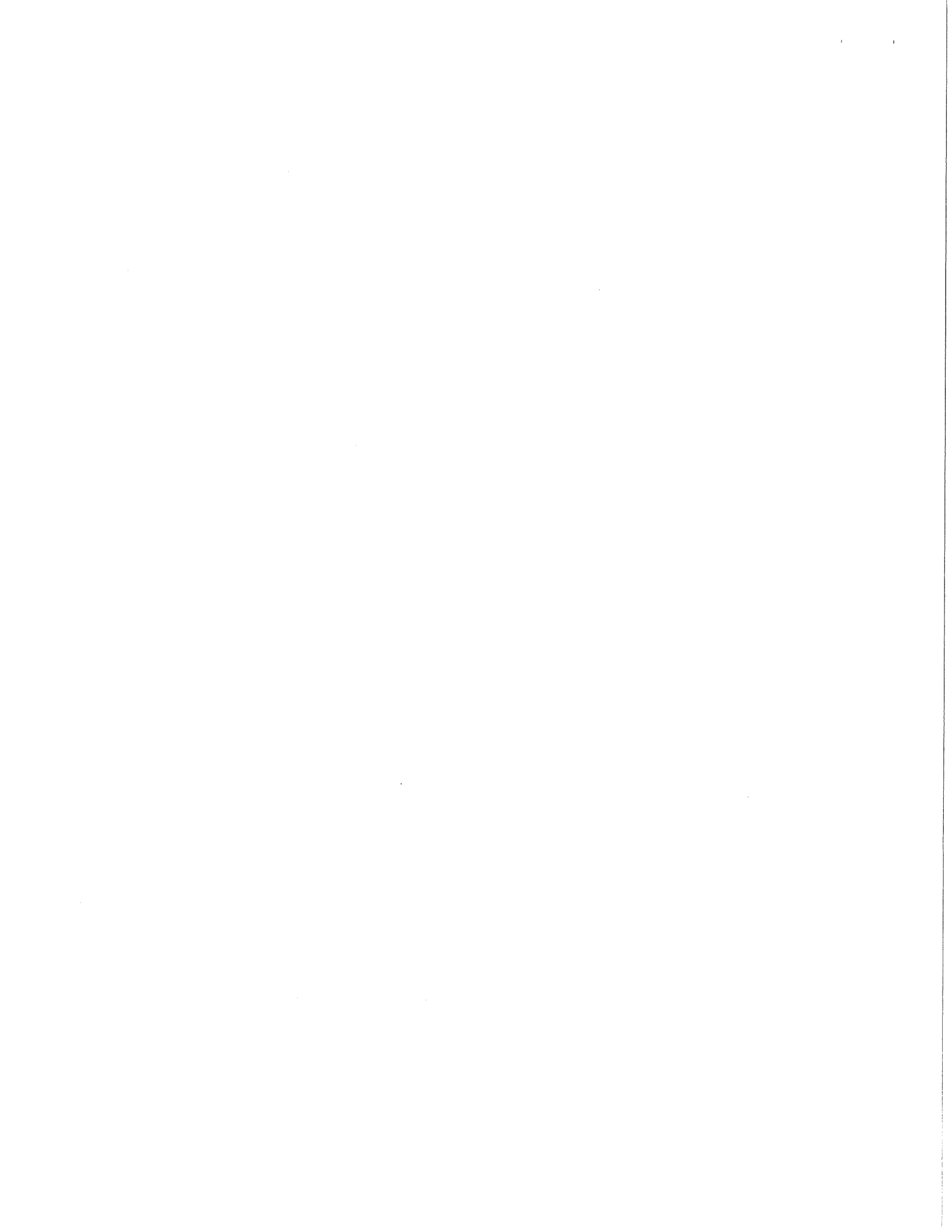
Please acknowledge this addendum on page E1 of the contract documents.

An electronic version of these documents can be found on the City of Madison web site at:

<http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 to receive the material by another route.

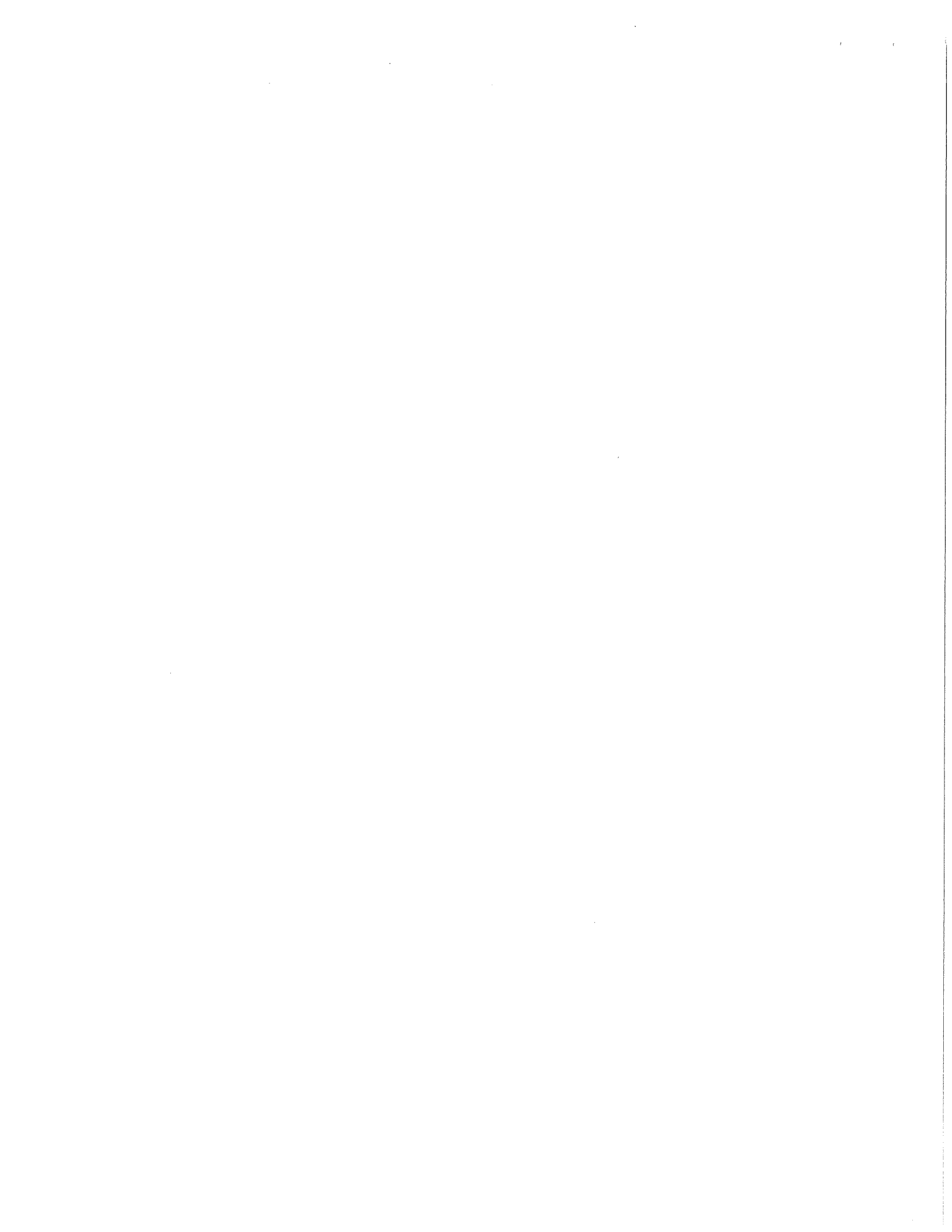
Robert F. Phillips, P.E., City Engineer



CAMPUS DRIVE STRUCTURE

ATTACHMENT INCLUDES:

- 2004 Design Drawings for Structure
- 2005 Photos of Structure Construction



SECTION E: PROPOSAL

UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2013 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. 1 through 1 issued thereto, at the prices for said work as contained in this proposal.
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. Accompanying this Proposal is Bid Bond or Certified Check in the amount of five percent of bid amount Dollars (\$ 5%) or a Certificate of Biennial Bid Bond as required by the Advertisement for Bids.
(IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
5. I hereby certify that all statements herein are made on behalf of Super Excavators, Inc.

(name of corporation, partnership, or person submitting bid)
 a corporation organized and existing under the laws of the State of Wisconsin a
~~partnership~~ consisting of _____; an ~~individual~~ trading as _____; of
 the City of _____; State of _____; that I have examined and carefully prepared this
 Proposal, from the plans and specifications and have checked the same in detail before submitting
 this Proposal, that I have full authority to make such statements and submit this Proposal in (its,
~~their~~) behalf and that the said statements are true and correct.

SIGNATURE

Peter Schraufnagel, Vice President

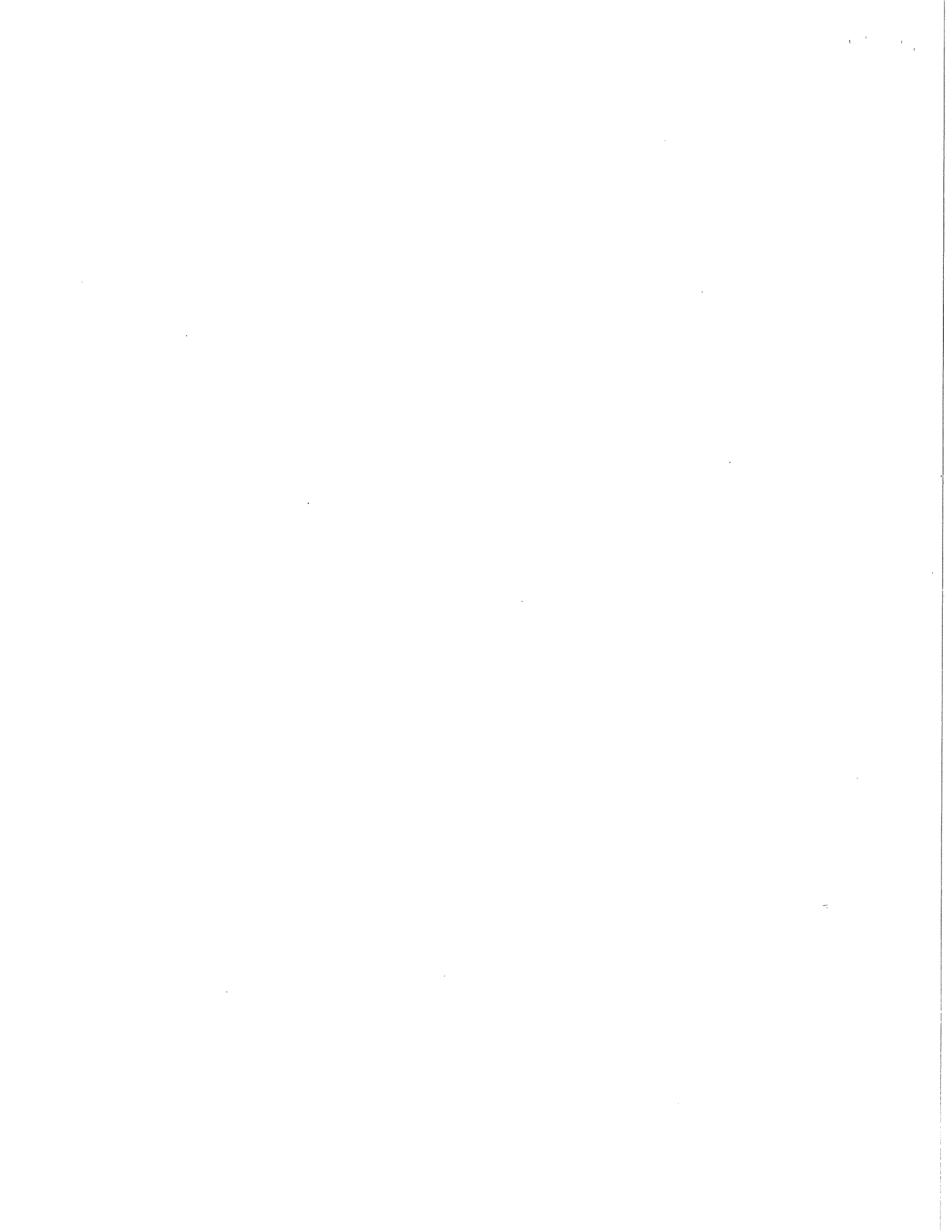
TITLE, IF ANY

Sworn and subscribed to before me this 22nd day of Feb., 2013

(Notary Public or other officer authorized to administer oaths)

My Commission Expires 9/13/15

Bidders shall not add any conditions or qualifying statements to this Proposal.



**UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009**

State of Wisconsin
Department of Workforce Development
Equal Rights Division
Labor Standards Bureau

Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(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.

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency or local governmental unit, on a project subject to Section 66.0903 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency or local governmental unit 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), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency or local governmental unit 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 hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

Other Construction Business

Name of Business

Street Address or P O Box

City

State

Zip Code

Name of Business

NONE

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

Peter Schraufnagel, Vice President

Signature of Authorized Officer

Date Signed

Feb. 22, 2013

Name of Corporation, Partnership or Sole Proprietorship

Super Excavators, Inc.

Street Address or P O Box

N59 W14601 Bobolink Ave.

City

Mehomonee Falls

State

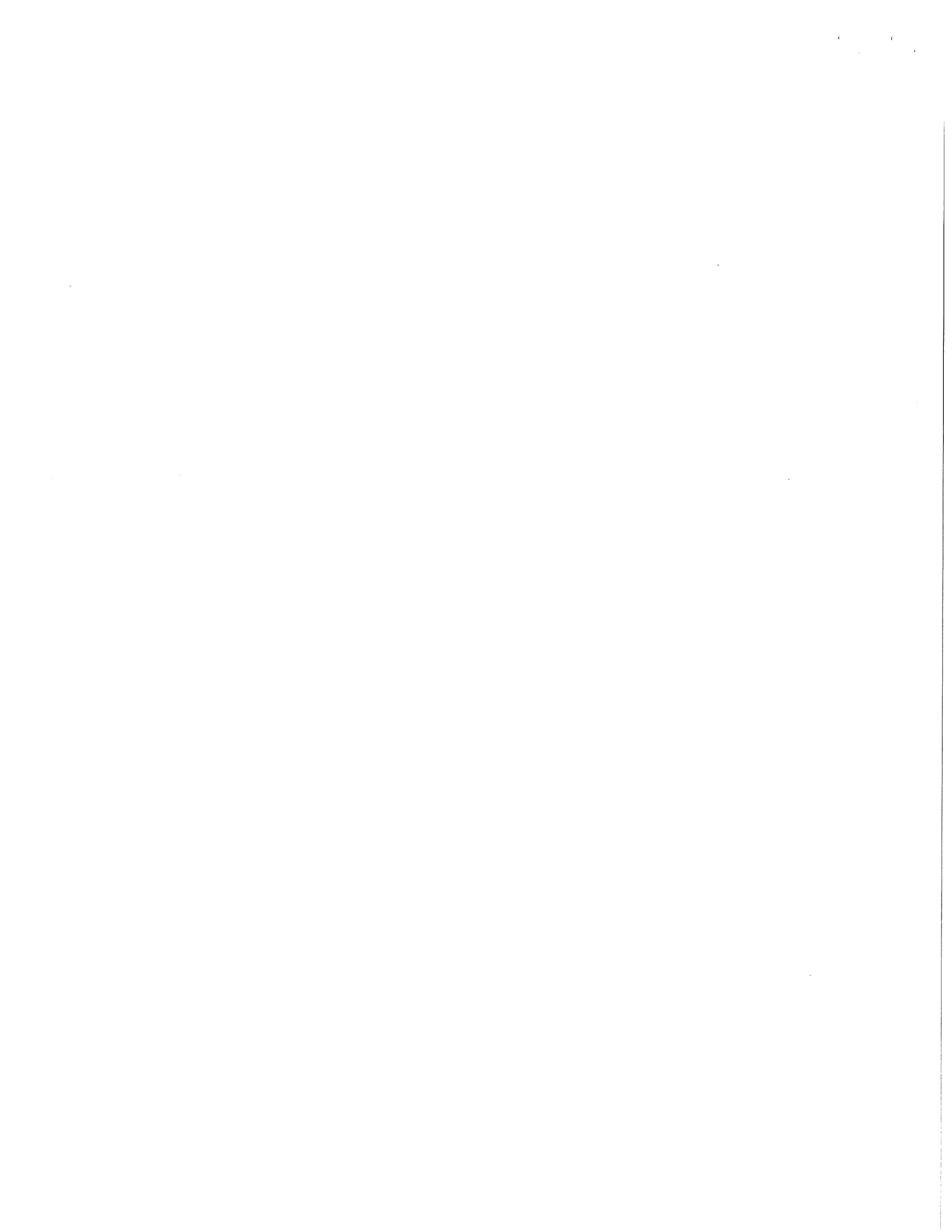
WI

Zip Code

53051

If you have any questions call (608) 266-0028

ERD-7777-E (R. 09/2003)



**UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009**

Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

N/A

2. Some Contractors are exempt due to the size of the work force. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin.

Check Here if the Contractor has a total skilled work force of four or less individuals in all apprenticeable trades combined. This contractor is exempt from Best Value Contracting.

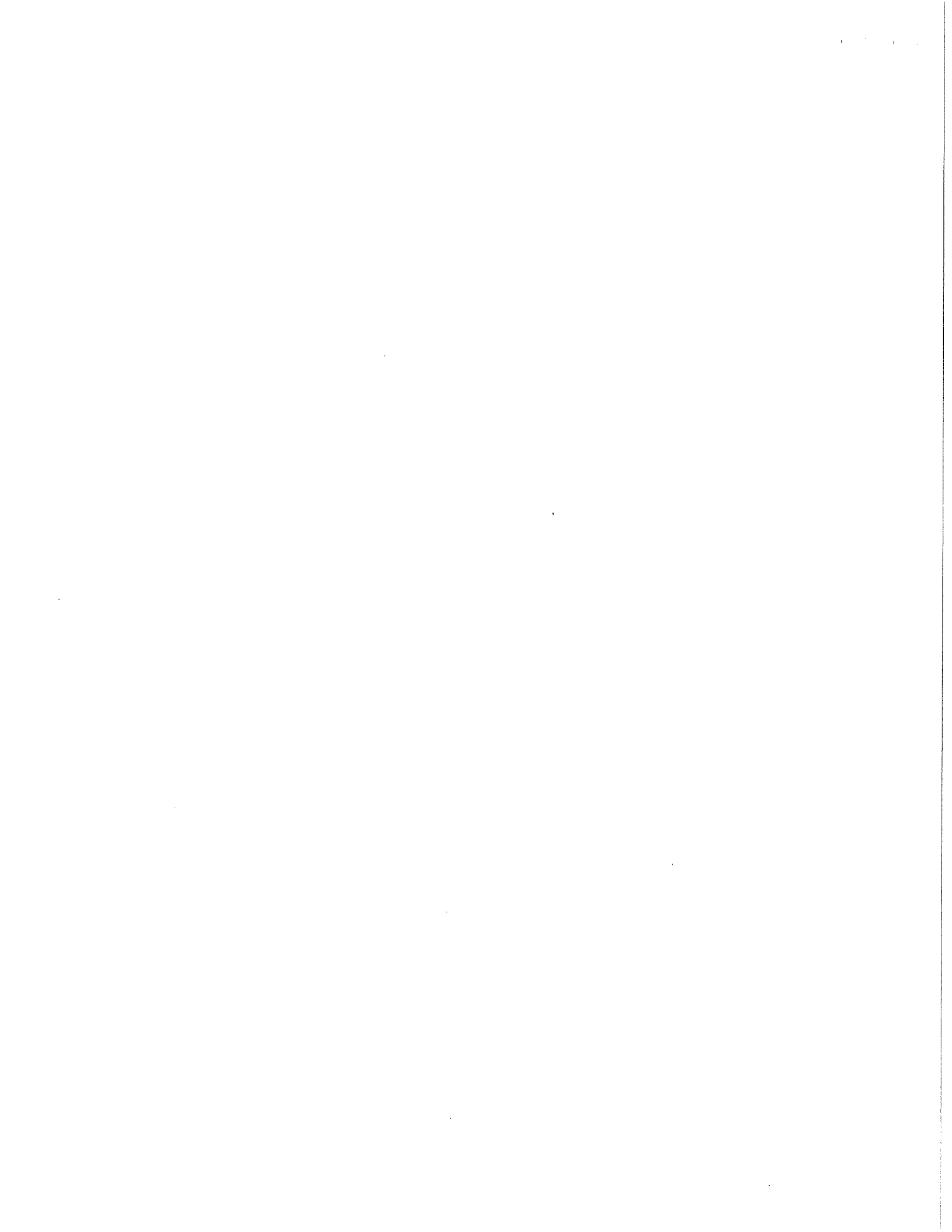
3. The Contractor shall indicate on page E-4 which apprenticeable trades are to be used on this Contract and shall indicate by checking the appropriate box for the trades used, how the contractor will comply with Madison General Ordinance 33.07(7).

Legend

Number of Journeyworkers	The Contractor shall indicated for trades to be used on this Contract only, the number of journeyworkers that the Contractor has employed company wide.
W-ATT	The Contractor is an active trade trainer in the State of Wisconsin for the trade indicated.
US-ATT	The Contractor is an active trade trainer in an apprenticeship program approved by the U.S. Department of Labor or another state apprenticeship agency in the trade indicated.
SB-ATT	The Contractor shall become an active trade trainer prior to beginning work on the Contract in the trade indicated.

The Contractor has reviewed the list on page E-4 and shall not use any apprenticeable trades on this project.

The Contractor has reviewed this list on E-4 and has checked the appropriate box by each apprenticeable trade to be used on the project.

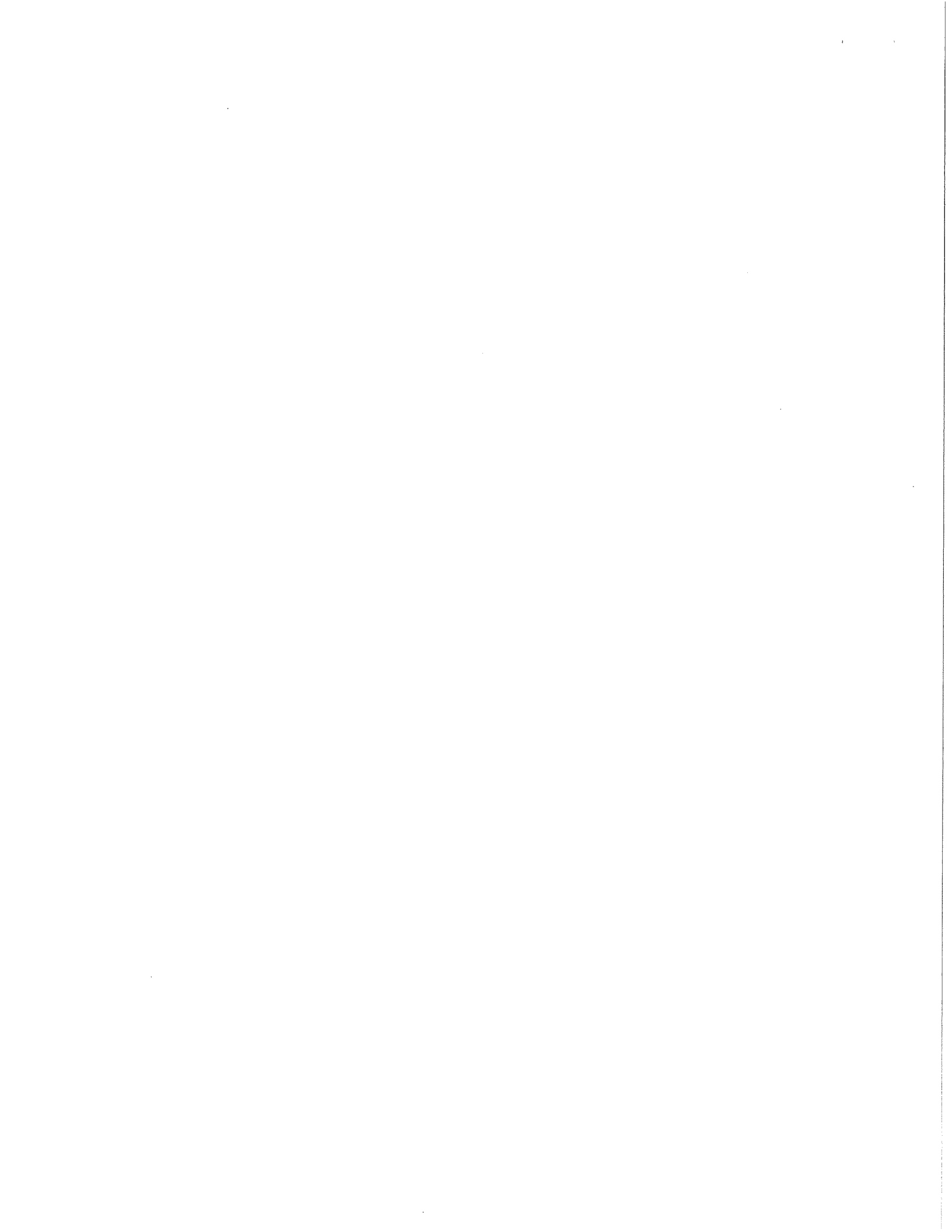


**UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009**

Apprenticeable Trades

Check the box in the column "Trade Used on This Project" for each apprenticeable trades used on this project. For those trades used on the project indicated the number of journeyworkers that are employed company wide and check a box to the right of the trade as to how the Contractor will comply MGO 33.07(7). Refer to the legend on page E-3 for the meaning associated with each heading. The Contractor must check one of the boxes on the right for each apprenticeable trade used and checked on the left.

Trade Used on Contract	Apprenticeable Trades	Number of Journeyworkers	W-ATT	US-ATT	SB-ATT
<input type="checkbox"/>	Bricklayer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Carpenter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Cement Mason / Concrete Finisher		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Cement Mason (Heavy Highway)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Construction Craft Laborer	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Data Communication Installer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Electrician		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Environmental Systems Technician / HVAC Service Tech/HVAC Install / Service		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Glazier		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Heavy Equipment Operator / Operating Engineer	24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Insulation Worker (Heat & Frost)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Iron Worker		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Iron Worker (Assembler, Metal Bldgs)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Painter & Decorator		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Plasterer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Plumber		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Residential Electrician		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Roofer & Waterproofer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Sheet Metal Worker		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Sprinklerfitter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Steamfitter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Steamfitter (Refrigeration)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Steamfitter (Service)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Taper & Finisher		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Telecommunications (Voice, Data & Video) Installer-Technician		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Tile Setter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



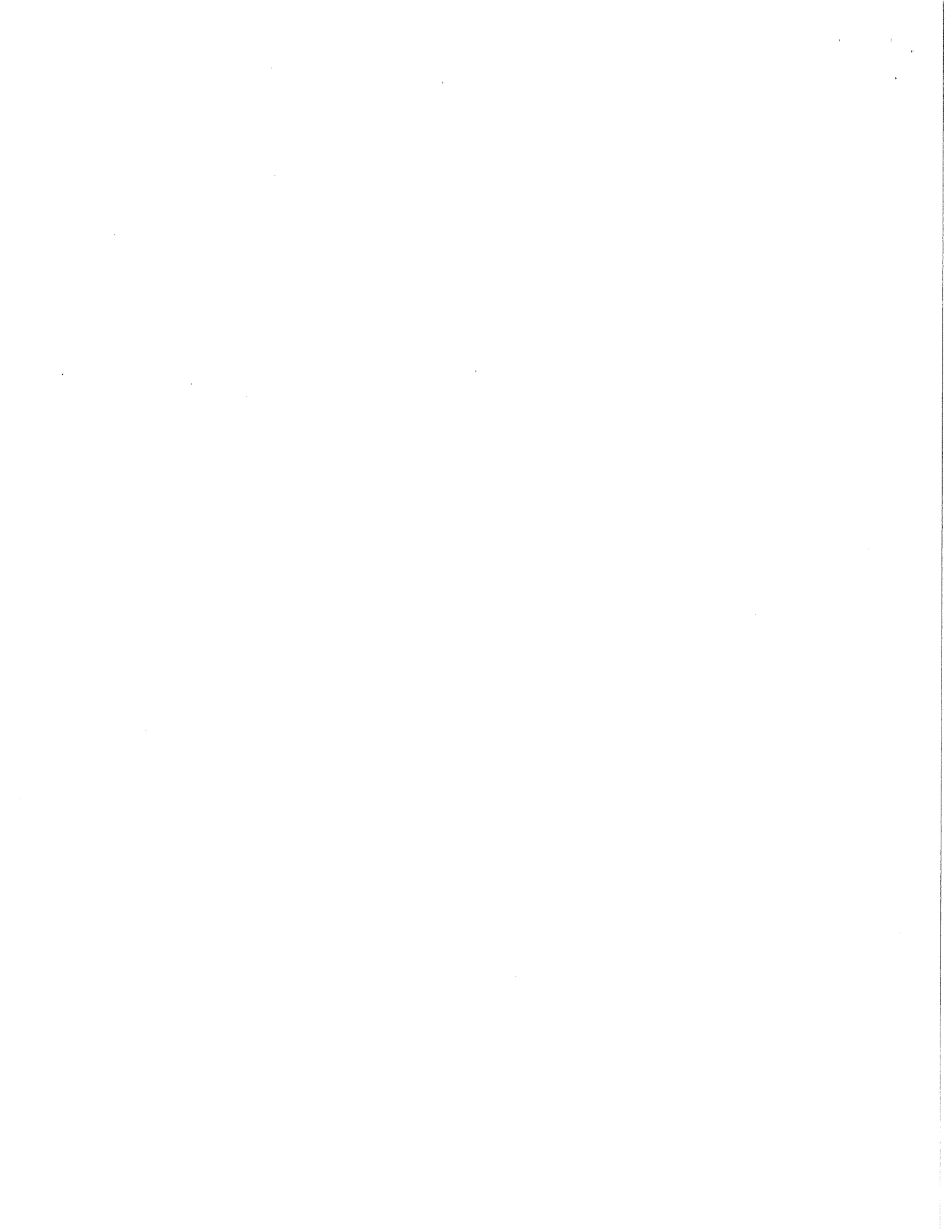
PROPOSAL

Super Excavators, Inc.
NAME OF BIDDER

UNIVERSITY RELIEF STORM SEWER - PHASE 4

Contract No. 7009

ITEM	TYPE OF WORK	ESTIMATED QUANTITIES		UNIT PRICE BID	TOTAL BID
ACCOUNT NO. CS53-58250-810355-00-53W1399					
20101	EXCAVATION CUT	473.00	C.Y.	\$ 25.00	\$ 11,825.00
20219	BREAKER RUN	360.00	TON	\$ 20.00	\$ 7,200.00
20302	SAWCUT CONCRETE FULL DEPTH	680.00	L.F.	\$ 2.00	\$ 1,360.00
20303	SAWCUT BITUMINOUS PAVEMENT	175.00	L.F.	\$ 1.50	\$ 262.50
20321	REMOVE CONCRETE PAVEMENT	1,120.00	S.Y.	\$ 10.00	\$ 11,200.00
40102	CRUSHED AGGREGATE BASE COURSE, GRADATION 2 OR 3	340.00	TON	\$ 13.00	\$ 4,420.00
40202	HMA PAVEMENT, TYPE E-1	325.00	TON	\$ 70.00	\$ 22,750.00
40203	HMA PAVEMENT, TYPE E-3	387.00	TON	\$ 70.00	\$ 27,090.00
40211	TACK COAT	128.00	GAL	\$ 2.00	\$ 256.00
40311	PULVERIZE AND SHAPE	1,325.00	S.Y.	\$ 7.50	\$ 9,937.50
40367	ADJUST VALVE CASTING METHOD #1	12.00	EACH	\$ 200.00	\$ 2,400.00
40381	REMOVE AND REPLACE CURB AND GUTTER (MACHINE)	265.00	L.F.	\$ 18.00	\$ 4,770.00
40382	REMOVE AND REPLACE CURB AND GUTTER, HAND PLACED - RESURFACING	200.00	L.F.	\$ 36.00	\$ 7,200.00
40392	REMOVE & REPLACE 7" THICK SIDEWALK AND DRIVEWAY - RESURFACING	200.0	S.F.	\$ 6.00	\$ 1,200.00
60080	PAVEMENT MARKING EPOXY, LINE 4,-INCH	500.00	L.F.	\$ 1.00	\$ 500.00
60801	PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH	400.00	L.F.	\$ 2.00	\$ 800.00
60802	PAVEMENT MARKING EPOXY, LINE, 6-INCH	150.00	L.F.	\$ 1.50	\$ 225.00
60803	PAVEMENT MARKING EPOXY, LINE, 8-INCH	170.00	L.F.	\$ 2.00	\$ 340.00
60818	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH	50.00	L.F.	\$ 8.00	\$ 400.00



UNIVERSITY RELIEF STORM SEWER - PHASE 4

Contract No. 7009

ITEM	TYPE OF WORK	ESTIMATED QUANTITIES		UNIT PRICE BID	TOTAL BID
60823	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE	2.00	EACH	\$ 100.00	\$ 200.00
60829	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW	2.00	EACH	\$ 150.00	\$ 300.00
60830	PAVEMENT MARKING EPOXY, SYMBOL, RIGHT ARROW	2.00	EACH	\$ 150.00	\$ 300.00
60834	PAVEMENT MARKING EPOXY, WORD, ONLY	2.0	EACH	\$ 200.00	\$ 400.00

ACCOUNT NO. CS53-58270-810355-00-53W1399

20217	CLEAR STONE	120.00	TON	\$ 15.00	\$ 1,800.00
21011	CONSTRUCTION ENTRANCE	4.00	EACH	\$ 600.00	\$ 2,400.00
21013	STREET SWEEPING	1.00	LUMP SUM	\$ 6,000.00	\$ 6,000.00
21021	SILT FENCE COMPLETE(UNDISTRIBUTED)	100.00	L.F.	\$ 3.00	\$ 300.00
21056	INLET PROTECTION TYPE D HYBRID- PROVIDE & INSTALL	17.00	EACH	\$ 75.00	\$ 1,275.00
21057	INLET PROTECTION TYPE D HYBRID- MAINTAIN	230.00	EACH	\$ 25.00	\$ 5,750.00
21058	INLET PROTECTION TYPE D HYBRID- REMOVE	17.00	EACH	\$ 25.00	\$ 425.00
50411	12 INCH RCP STORM SEWER PIPE	78.00	L.F.	\$ 90.00	\$ 7,020.00
50741	TYPE "H" INLET	5.0	EACH	\$ 3,500.00	\$ 17,500.00

ACCOUNT NO. ESTM-58270-810514-00-53W1399

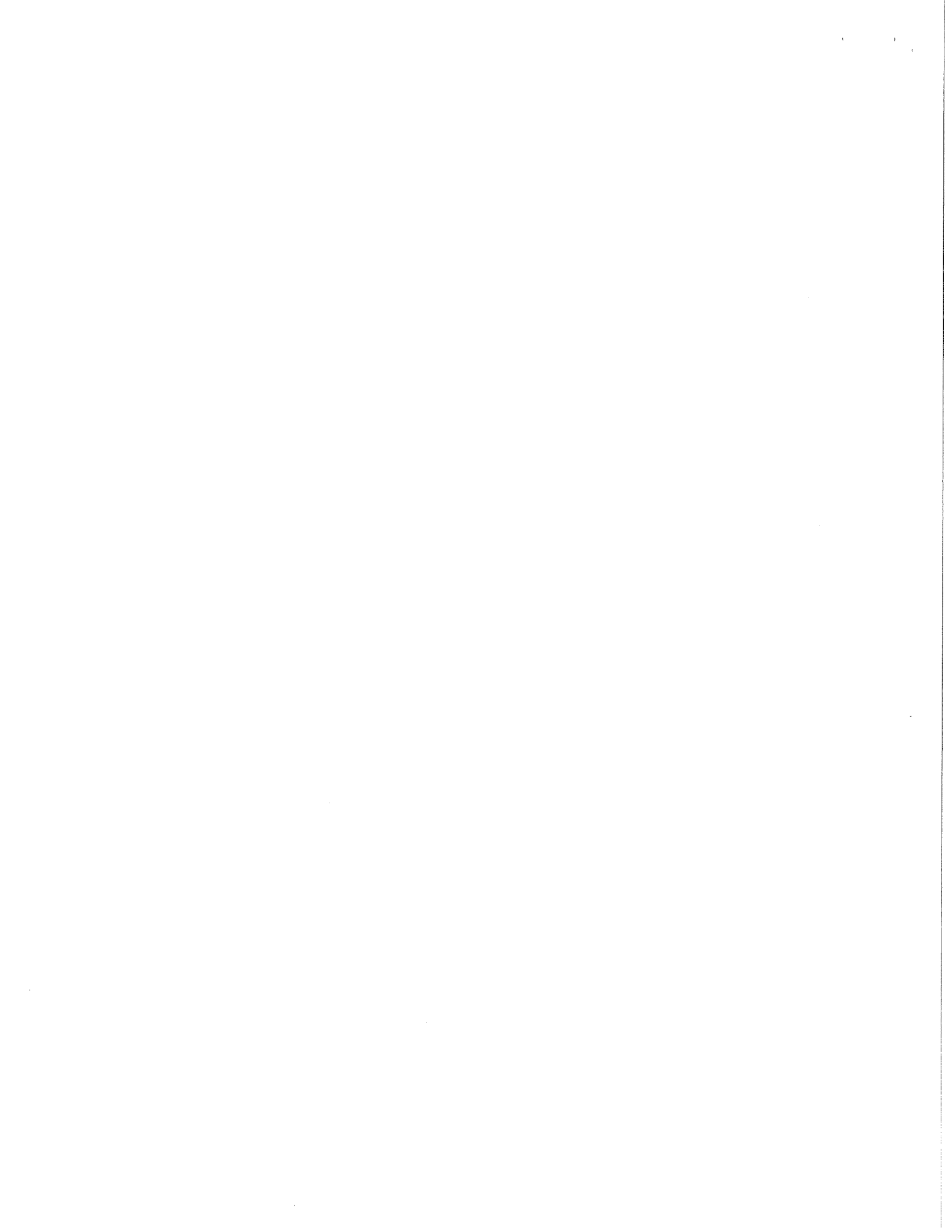
10701	TRAFFIC CONTROL	1.0	LUMP SUM	\$ 26,000.00	\$ 26,000.00
10721	TRAFFIC CONTROL SIGN - PORTABLE CHANGEABLE MESSAGE	170.0	DAYS	\$ 40.00	\$ 6,800.00
10901	MOBILIZATION	1.0	LUMP SUM	\$ 200,000.00	\$ 200,000.00
20401	CLEARING	20.0	I.D.	\$ 40.00	\$ 800.00
20403	GRUBBING	20.0	I.D.	\$ 40.00	\$ 800.00
20312	REMOVE CATCHBASIN	1.0	EACH	\$ 400.00	\$ 400.00
20313	REMOVE INLET	2.0	EACH	\$ 400.00	\$ 800.00



UNIVERSITY RELIEF STORM SEWER - PHASE 4

Contract No. 7009

ITEM	TYPE OF WORK	ESTIMATED QUANTITIES		UNIT PRICE BID	TOTAL BID
20336	PIPE PLUG (UNDISTRIBUTED)	2.0	EACH	\$ 500.00	\$ 1,000.00
40301	FULL WIDTH GRINDING (2")	185.00	S.Y.	\$ 22.00	\$ 4,070.00
40391	REMOVE AND REPLACE 5 INCH CONCRETE SIDEWALK - RESURFACING	850.00	S.F.	\$ 6.00	\$ 5,100.00
50211	SELECT BACKFILL FOR STORM SEWER	203.00	T.F.	\$ 8.00	\$ 1,624.00
50412	15 INCH RCP STORM SEWR PIPE (UNDISTRIBUTED)	10.00	L.F.	\$ 140.00	\$ 1,400.00
50413	18 INCH RCP STORM SEWER	115.0	L.F.	\$ 150.00	\$ 17,250.00
50723	3'X3' STORM SAS	2.0	EACH	\$ 1,500.00	\$ 3,000.00
50728	3'X6' STORM STRUCTURE (UNDISTRIBUTED)	1.0	EACH	\$ 3,000.00	\$ 3,000.00
50792	STORM SEWER TAP (UNDISTRIBUTED)	3.0	EACH	\$ 1,500.00	\$ 4,500.00
50801	UTILITY LINE OPENING (ULO)	7.0	EACH	\$ 1,000.00	\$ 7,000.00
90001	UMBRELLA INSURANCE COVERAGE	1.0	LUMP SUM	\$ 1.00	\$ 1.00
90030	FURNISH AND INSTALL 96-INCH I.D. STORM SEWER PIPE	1252.0	L.F.	\$ 2,225.00	\$ 2,785,700.00
90031	WALNUT STREET LAUNCHING PIT	1.0	LUMP SUM	\$ 300,000.00	\$ 300,000.00
90032	CAMPUS DRIVE RECEIVING PIT	1.0	LUMP SUM	\$ 250,000.00	\$ 250,000.00
90033	HIGHLAND AVENUE RECEIVING PIT	1.0	LUMP SUM	\$ 400,000.00	\$ 400,000.00
90034	OPENING OF WALNUT STREET FOR CRAZYLEGS ROAD RACE	1.0	LUMP SUM	\$ 1,000.00	\$ 1,000.00
90035	WALNUT STREET STORM STRUCTURE (S-2)	1.0	LUMP SUM	\$ 65,000.00	\$ 65,000.00
90036	HIGHLAND AVENUE STORM STRUCTURE (S-3)	1.0	LUMP SUM	\$ 90,000.00	\$ 90,000.00
90037	STORM SEWER TAP AT CAMPUS DRIVE (S-1)	1.0	LUMP SUM	\$ 25,000.00	\$ 25,000.00
90038	STORM SEWER TAP AT STRUCTURE SS 4151-079 (S-4)	1.0	LUMP SUM	\$ 20,000.00	\$ 20,000.00



UNIVERSITY RELIEF STORM SEWER - PHASE 4

Contract No. 7009

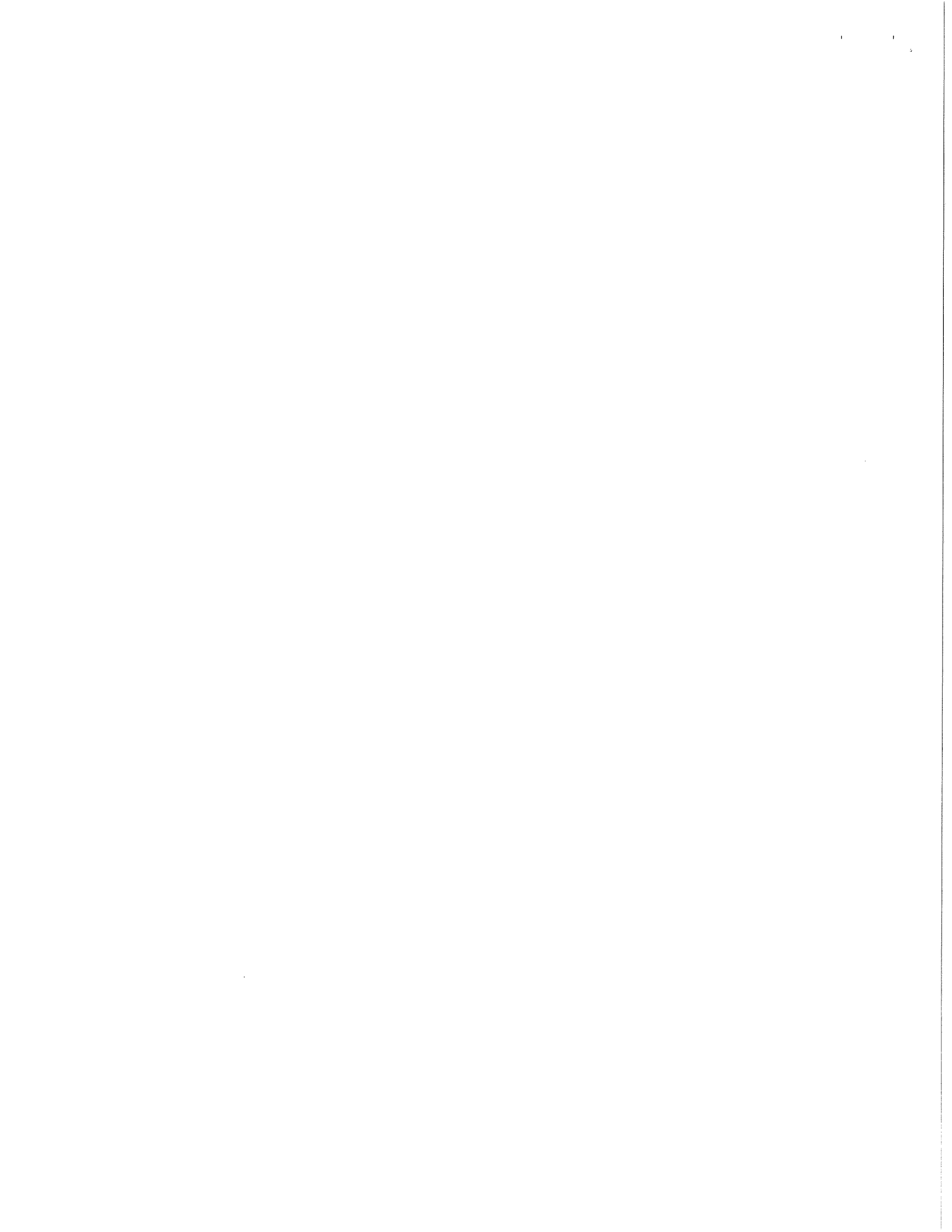
ITEM	TYPE OF WORK	ESTIMATED QUANTITES		UNIT PRICE BID	TOTAL BID
90039	OBSTRUCTIONS GREATER THAN 2 FEET IN DIAMETER (UNDISTRIBUTED)	4.0	EACH	\$ 500.00	\$ 2,000.00
90040	12-INCH WATER MAIN RELOCATION	1.0	LUMP SUM	\$ 45,000.00	\$ 45,000.00
90041	REINFORCED CONCRETE FIELD BEND	1.0	EACH	\$ 1,500.00	\$ 1,500.00
90042	CRACK AND DAMAGE SURVEY	9.0	EACH	\$ 1,500.00	\$ 13,500.00
90043	HAULING CONTAMINATED SOIL	450.0	TON	\$ 15.00	\$ 6,750.00
90044	REMOVE 96" STORM PLUG	1.0	LUMP SUM	\$ 4,000.00	\$ 4,000.00

ACCOUNT NO. EW01-58273-810455-00-53W1399

70002	FURNISH AND INSTALL 6 INCH PIPE & FITTINGS	36.00	L.F.	\$ 300.00	\$ 10,800.00
70405	CUT-IN CONNECTION	1.00	EACH	\$ 5,000.00	\$ 5,000.00
70407	FURNISH AND INSTALL HYDRANT	1.00	EACH	\$ 3,500.00	\$ 3,500.00
70408	SELECT FILL - SAND FOR WATER	36.00	L.F.	\$ 25.00	\$ 900.00
70414	CUT OFF EXISTING WATER MAIN	2.00	EACH	\$ 150.00	\$ 300.00
70415	ABANDON WATER VALVE BOX	2.00	EACH	\$ 100.00	\$ 200.00
70416	ABANDON HYDRANT	1.00	EACH	\$ 150.00	\$ 150.00
70428	FURNISH AND INSTALL 6 INCH VALVE	2.00	EACH	\$ 1,500.00	\$ 3,000.00
70446	REPLACE COPPER SERVICE LATERAL	10.00	L.F.	\$ 500.00	\$ 5,000.00
70453	ABANDON EXISTING CURB BOX	1.00	EACH	\$ 200.00	\$ 200.00

ACCOUNT NO. CS53-58545-810355-00-53W1399

60222	FURNISH & INSTALL 3 INCH PVC (SCHEDULE 80) CONDUIT	140.00	L.F.	\$ 4.00	\$ 560.00
60230	FURNISH & INSTALL 2 INCH PVC (SCHEDULE 80) CONDUIT	150.00	L.F.	\$ 3.00	\$ 450.00
60241	GOPHER RACEWAY FOR ELECTRICAL CONDUIT OR CABLE-	15.00	L.F.	\$ 17.00	\$ 255.00
60427	REMOVE ELECTRICAL HANDHOLE	1.00	EACH	\$ 300.00	\$ 300.00

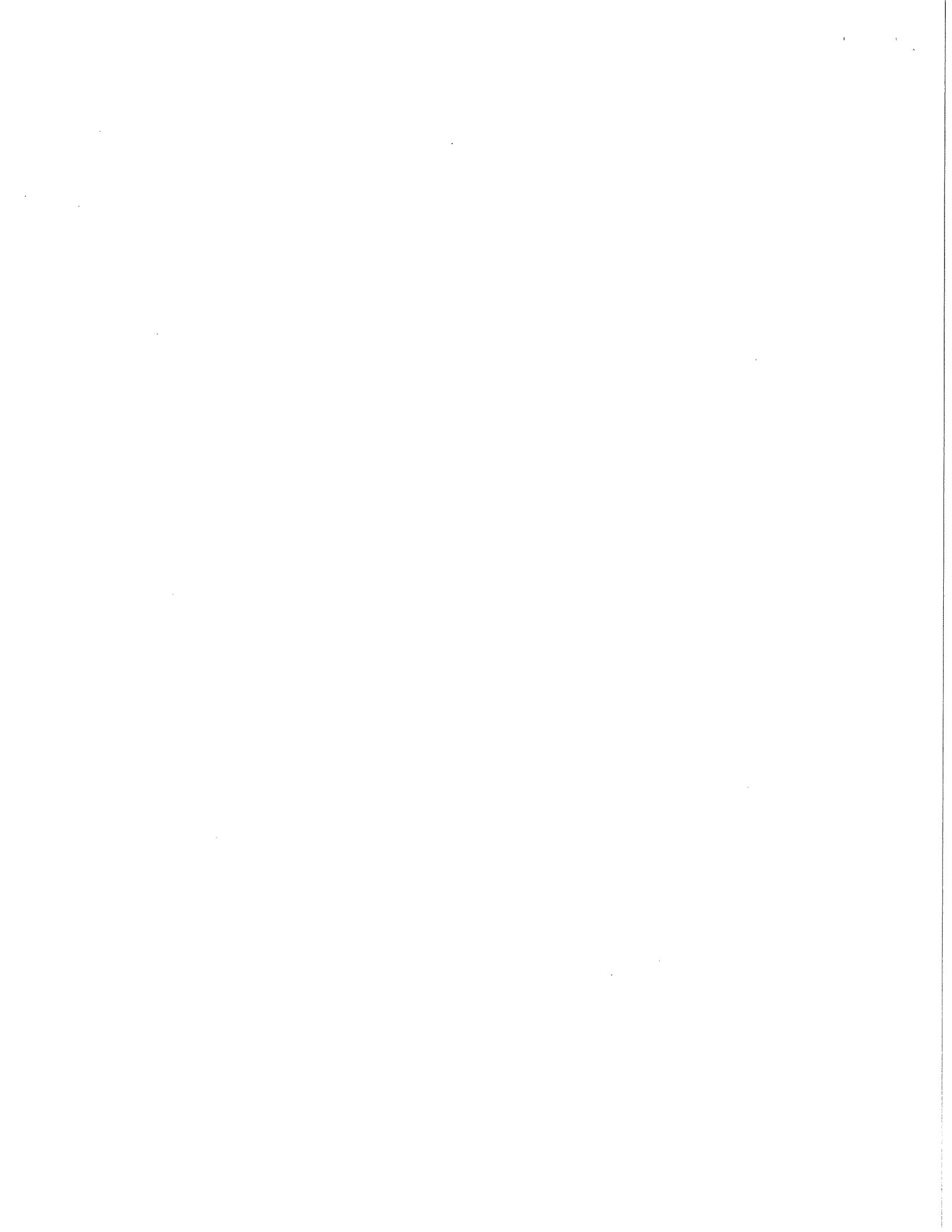


UNIVERSITY RELIEF STORM SEWER - PHASE 4

Contract No. 7009

ITEM	TYPE OF WORK	ESTIMATED QUANTITIES		UNIT PRICE BID	TOTAL BID
60261	ELECTRICAL TRENCH	225.00	L.F.	\$ 9.00	\$ 2,025.00
60702	CONSTRUCT ELECTRICAL HANDHOLE TYPE 1	1.00	EACH	\$ 1,300.00	\$ 1,300.00
60706	CONSTRUCT ELECTRICAL HANDHOLE TYPE 5	1.00	EACH	\$ 1,800.00	\$ 1,800.00
GRAND TOTAL					\$4,486,541.00

[Handwritten signature]



SECTION F: BID BOND

KNOW ALL MEN BY THESE PRESENT, THAT Super Excavators, Inc.
(a corporation of the State of Wisconsin) (individual), (partnership), hereinafter referred to as
the "Principal") and Continental Casualty Company, a corporation of the State of Illinois (hereinafter referred
to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto
the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the
amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which
the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and
assigns, jointly and severally, firmly by these presents.

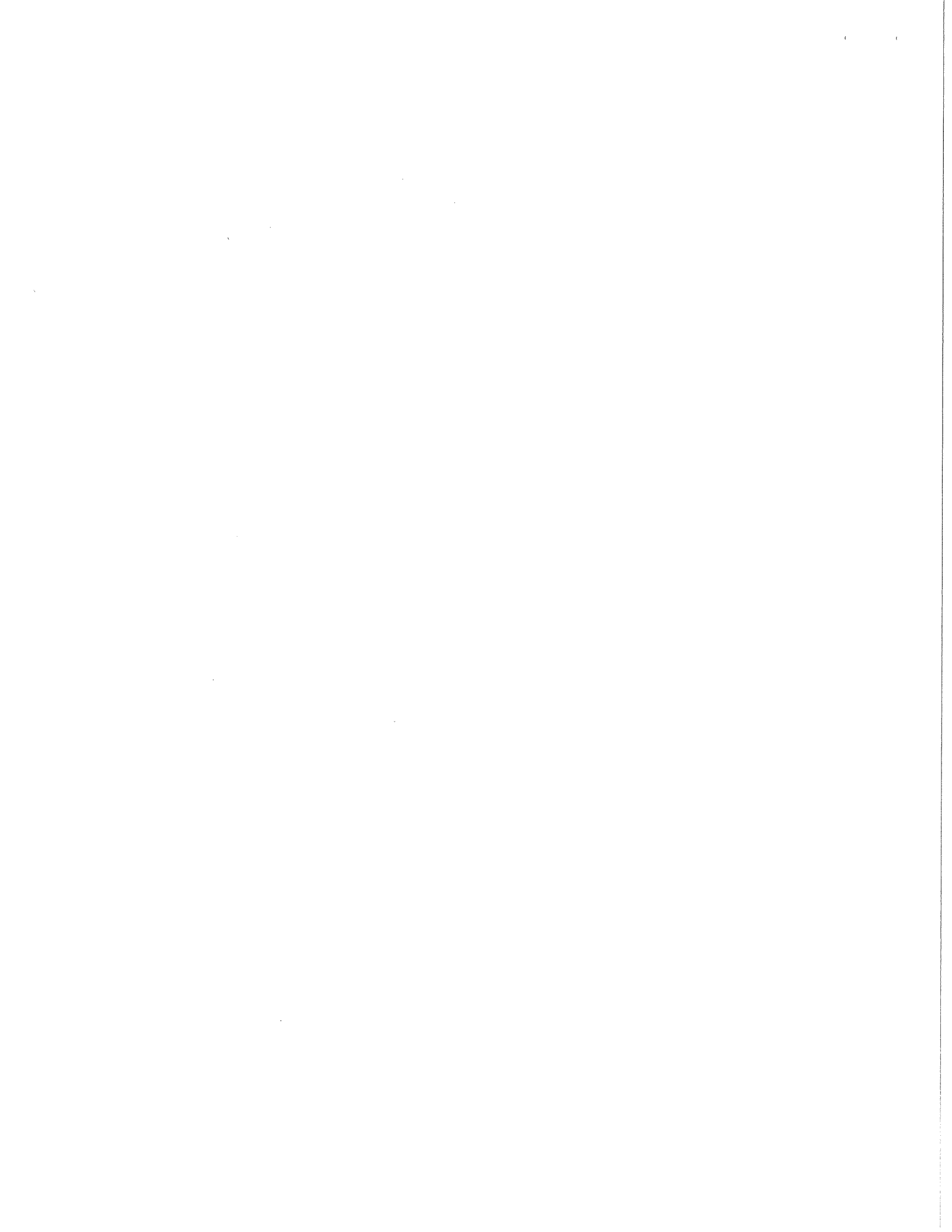
The conditions of this obligation are such that, whereas the Principal has submitted, to the City of
Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made
a part hereof, to enter into a contract in writing for the construction of:

UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009

1. If said bid is rejected by the Obligee, then this obligation shall be void.
2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the
form specified by the Obligee (properly completed in accordance with said bid) and shall furnish
a bond for his/her faithful performance of said contract, and for the payment of all persons
performing labor or furnishing materials in connection therewith, and shall in all other respects
perform the agreement created by the acceptance of said bid, then this obligation shall be void.

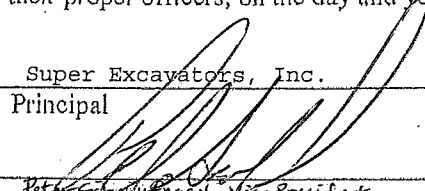
If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the
contract and the performance and payment bond noted in 2. above executed by this Surety, or
other Surety approved by the City of Madison, all within the time specified or any extension
thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated
damages the sum mentioned above, it being understood that the liability of the Surety for any and
all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further
understood that the Principal and Surety reserve the right to recover from the Obligee that portion
of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

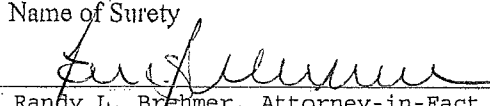
The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety
and its bond shall be in no way impaired or affected by an extension of the time within which the
Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.



IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

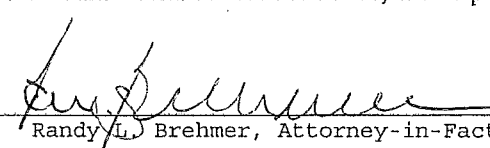
Seal Super Excavators, Inc. February 4, 2013
Principal _____ Date _____

By: 
Peter Schmitt, Vice President

Continental Casualty Company
Name of Surety _____
By:  February 4, 2013
Randy L. Brehmer, Attorney-in-Fact Date _____

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. 179424 for the year 2013, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

February 4, 2013
Date _____


Agent Randy L. Brehmer, Attorney-in-Fact

333 S. Wabash Avenue
Address _____

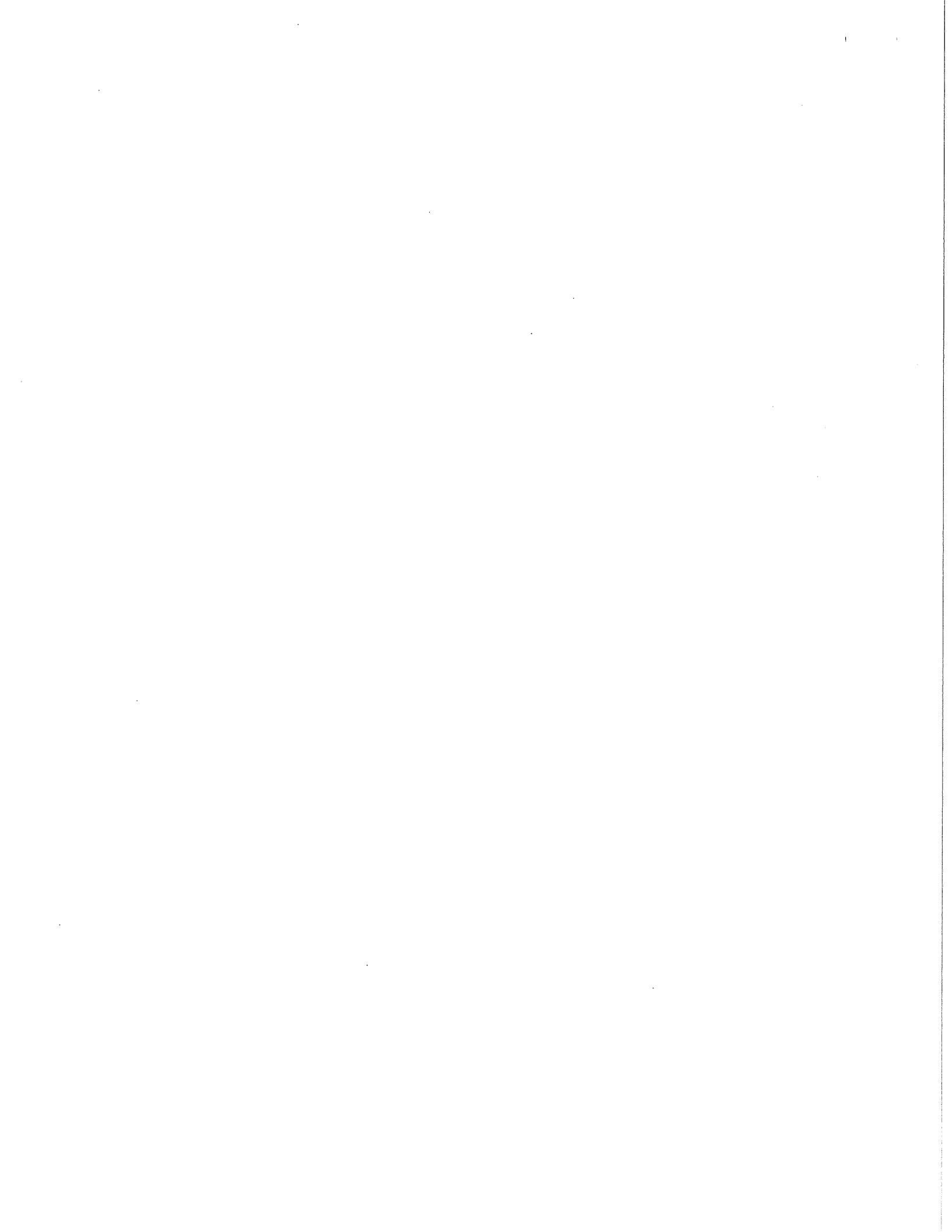
Chicago, IL 60604
City, State and Zip Code _____

262-781-3714
Telephone Number _____

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees may be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.



POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company (herein called "the CNA Companies"), are duly organized and existing insurance companies having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint

Randy L Brehmer, Terence R Geszvain, Lawrence A Michael, Robert W Lentz, Jason A Braatz, Christopher H Brehmer, Melissa A Hackstein, Individually

of Butler, WI, their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their insurance companies and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the insurance companies.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Vice President and their corporate seals to be hereto affixed on this 18th day of June, 2012.



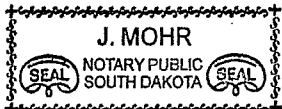
Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Paul T. Bruflat

Paul T. Bruflat Vice President

State of South Dakota, County of Minnehaha, ss:

On this 18th day of June, 2012, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company described in and which executed the above instrument; that he knows the seals of said insurance companies; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said insurance companies and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance companies.



My Commission Expires June 23, 2015

J. Mohr

J. Mohr Notary Public

CERTIFICATE

I, D. Bult, Assistant Secretary of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance companies printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance companies this 4th day of February, 2013.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

D. Bult

D. Bult Assistant Secretary

Authorizing By-Laws and Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF CONTINENTAL CASUALTY COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company at a meeting held on May 12, 1995:

"RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective."

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of Continental Casualty Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company."

ADOPTED BY THE BOARD OF DIRECTORS OF NATIONAL FIRE INSURANCE COMPANY OF HARTFORD:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

"RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective."

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of National fire Insurance Company of Hartford.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company."

ADOPTED BY THE BOARD OF DIRECTORS OF AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

"RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective."

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of American Casualty Company of Reading, Pennsylvania.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company."

SECTION G: AGREEMENT

THIS AGREEMENT made this 25 day of March in the year Two Thousand and Thirteen between SUPER EXCAVATORS, INC. hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted MARCH 19, 2013, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

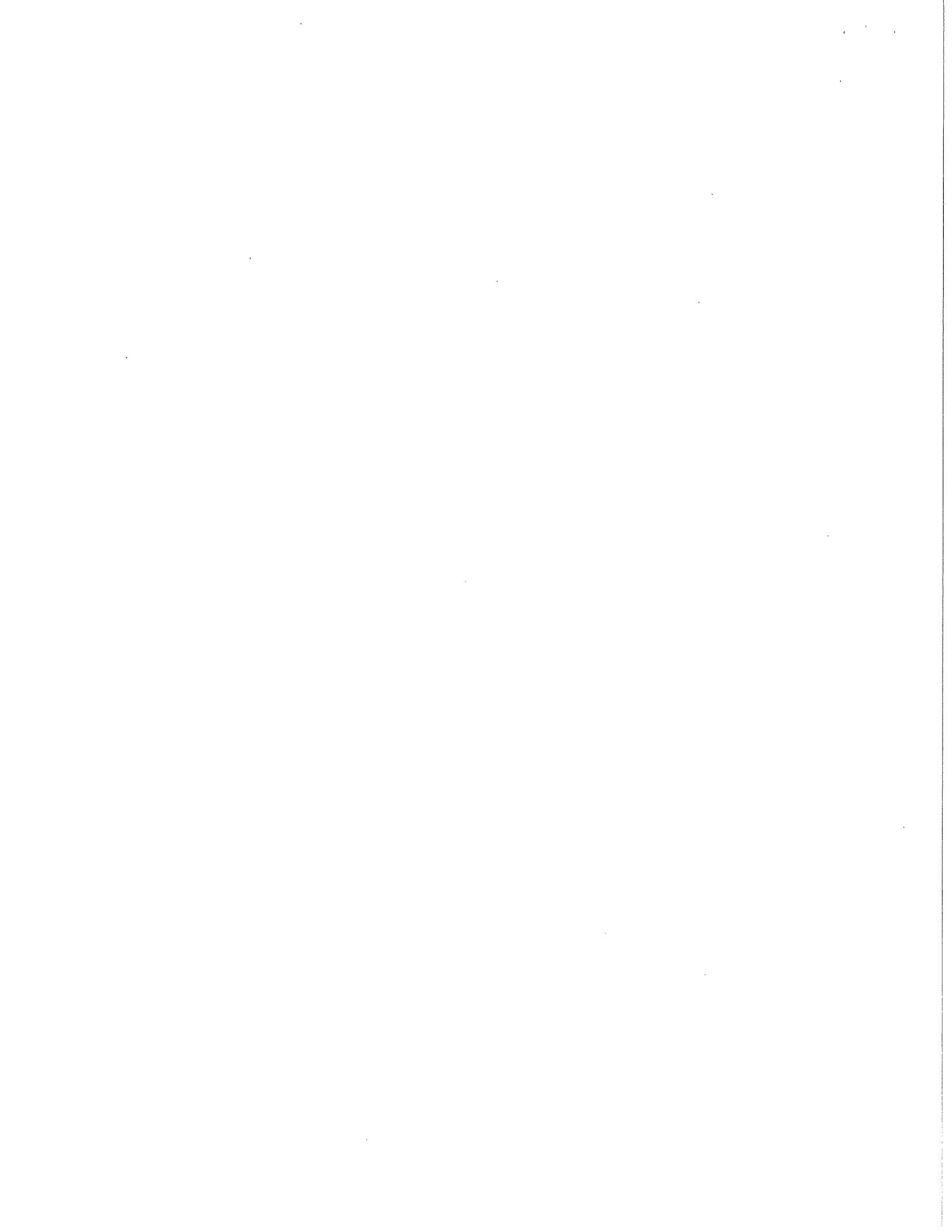
UNIVERSITY RELIEF STORM SEWER – PHASE 4 CONTRACT NO. 7009

2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.
3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of FOUR MILLION, FOUR HUNDRED EIGHTY-SIX THOUSAND, FIVE HUNDRED FORTY-ONE DOLLARS & NO CENTS (\$ 4,486,541.00) being the amount bid by such Contractor and which was awarded to him/her as provided by law.
4. **Wage Rates for Employees of Public Works Contractors**

General and Authorization. The Contractor shall compensate its employees at the prevailing wage rate in accordance with section 66.0903, Wis. Stats., DWD 290 of the Wisconsin Administrative Code and as hereinafter provided.

“Public Works” shall include building or work involving the erection, construction, remodeling, repairing or demolition of buildings, parking lots, highways, streets, bridges, sidewalks, street lighting, traffic signals, sanitary sewers, water mains and appurtenances, storm sewers, and the grading and landscaping of public lands.

“Building or work” includes construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work, except for the delivery of mineral aggregate such as sand, gravel, bituminous asphaltic concrete or stone which is incorporated into the work under contract with the City by depositing the material directly in final place from transporting vehicle.



“Erection, construction, remodeling, repairing” means all types of work done on a particular building or work at the site thereof in the construction or development of the project, including without limitation, erecting, construction, remodeling, repairing, altering, painting, and decorating, the transporting of materials and supplies to or from the building or work done by the employees of the Contractor, Subcontractor, or Agent thereof, and the manufacturing or furnishing of materials, articles, supplies or equipment on the site of the building or work, by persons employed by the Contractor, Subcontractor, or Agent thereof.

“Employees working on the project” means laborers, workers, and mechanics employed directly upon the site of work.

“Laborers, Workers, and Mechanics” include preapprentices, helpers, trainees, learners and properly registered and indentured apprentices but exclude clerical, supervisory, and other personnel not performing manual labor.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate is attached hereto.

Workforce Profile. The Contractor shall, at the time of signature of the contract, notify the City Engineer in writing of the names and classifications of all the employees of the Contractor, Subcontractors, and Agents proposed for the work. In the alternative, the Contractor shall submit in writing the classifications of all the employees of the Contractor, Subcontractors and Agents and the total number of hours estimated in each classification for the work. This workforce profile(s) shall be reviewed by the City Engineer who may, within ten (10) days, object to the workforce profile(s) as not being reflective of that which would be required for the work. The Contractor may request that the workforce profile, or a portion of the workforce profile, be submitted after the signature of the contract but at least ten (10) days prior to the work commencing. Any costs or time loss resulting from modifications to the workforce profile as a result of the City Engineer’s objections shall be the responsibility of the Contractor.

Payrolls and Records. The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of all the employees who work on the contract, including the employees of the Contractor’s subcontractors and agents. Such weekly payroll records must include the required information for all City contracts and all other contracts on which the employee worked during the week in which the employee worked on the contract. The Contractor shall also keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. The records shall set forth the full weekly wages earned by each employee and the actual hourly wage paid to the employee.

The Contractor shall submit the weekly payroll records, including the records of the Contractor’s subcontractors and agents, to the City Engineer for every week that work is being done on the contract. The submittal shall be within twenty-one (21) calendar days of the end of the Contractor’s weekly pay period.



Employees shall receive the full amounts accrued at the time of the payment, computed at rates not less than those stated in the prevailing wage rate and each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to the employee.

An employee's classification shall not be changed to a classification of a lesser rate during the contract. If, during the term of the contract, an employee works in a higher pay classification than the one which was previously properly assigned to the employee, then that employee shall be considered to be in the higher pay classification for the balance of the contract, receive the appropriate higher rate of pay, and she/he shall not receive a lesser rate during the balance of the contract. For purposes of clarification, it is noted that there is a distinct difference between working in a different classification with higher pay and doing work within a classification that has varying rates of pay which are determined by the type of work that is done within the classification. For example, the classification "Operating Engineer" provides for different rates of pay for various classes of work and the Employer shall compensate an employee classified as an "Operating Engineer" based on the highest class of work that is done in one day. Therefore, an "Operating Engineer's" rate may vary on a day to day basis depending on the type of work that is done, but it will never be less than the base rate of an "Operating Engineer". Also, as a matter of clarification, it is recognized that an employee may work in a higher paying classification merely by chance and without prior intention, calculation or design. If such is the case and the performance of the work is truly incidental and the occurrence is infrequent, inconsequential and does not serve to undermine the single classification principle herein, then it may not be required that the employee be considered to be in the higher pay classification and receive the higher rate of pay for the duration of the contract. However, the Contractor is not precluded or prevented from paying the higher rate for the limited time that an employee performs work that is outside of the employee's proper classification.

Questions regarding an employee's classification, rate of pay or rate of pay within a classification, shall be resolved by reference to the established practice that predominates in the industry and on which the trade or occupation rate/classification is based. Rate of pay and classification disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determination by appropriate recognized trade unions operating within the City of Madison.

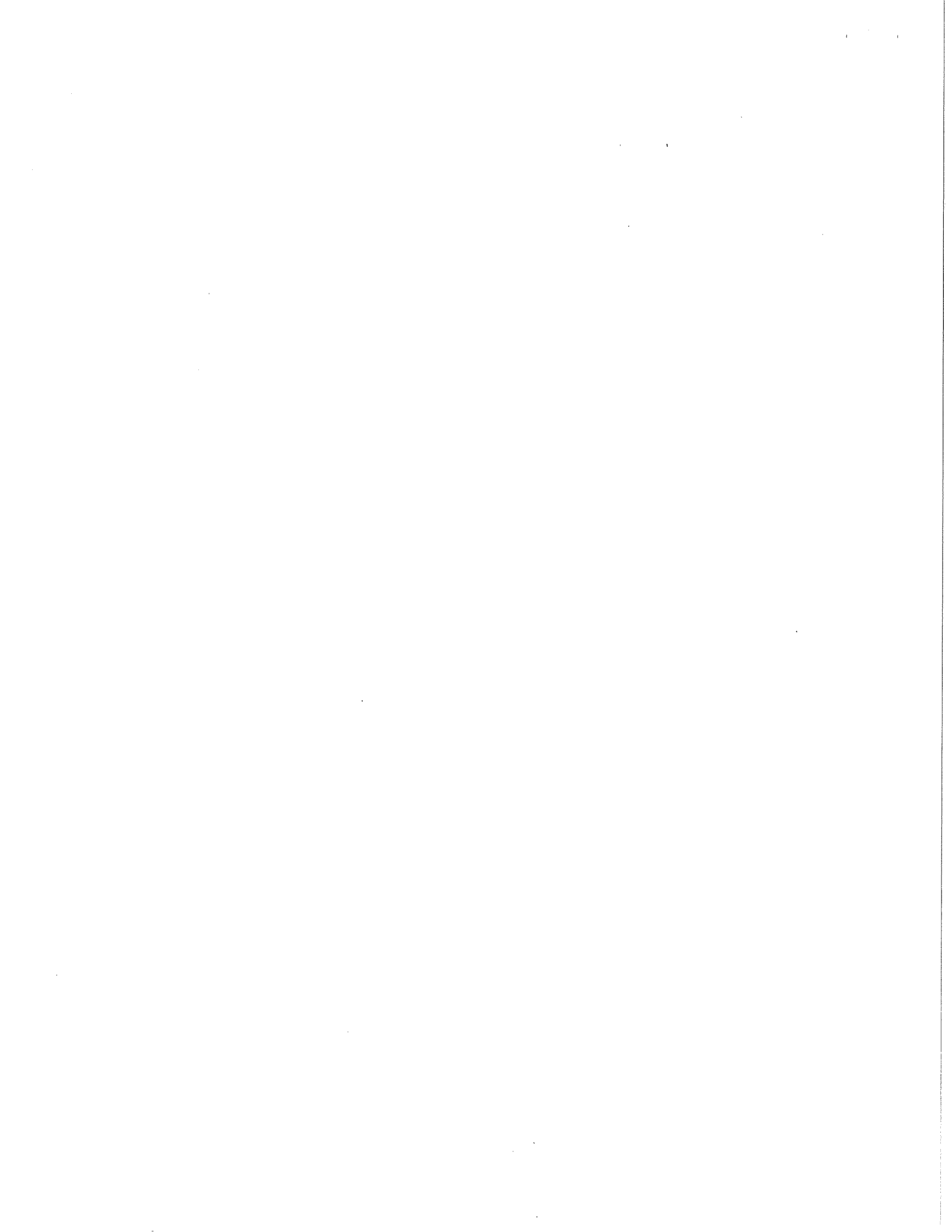
The Contractor, its Subcontractors and Agents shall submit to interrogation regarding compliance with the provisions of this ordinance.

Mulcting of the employees by the Contractor, Subcontractor, and Agents on Public Works contracts, such as by kickbacks or other devices, is prohibited. The normal rate of wage of the employees of the Contractor, Subcontractor, and Agents shall not be reduced or otherwise diminished as a result of payment of the prevailing wage rate on a public works contract.

Hourly contributions. Hourly contributions shall be determined in accordance with the prevailing wage rate and with DWD. 290.01(10), Wis. Admin. Code.

Apprentices and Subjourneypersons. Apprentices and subjourneypersons performing work on the project shall be compensated in accordance with the prevailing wage rate and with DWD 290.02, and 290.025, respectively, Wis. Admin. Code.

Straight Time Wages. The Contractor may pay straight time wages as determined by the prevailing wage rate and DWD 290.04, Wis. Admin. Code.



Overtime Wages. The Contractor shall pay overtime wages as required by the prevailing wage rate and DWD 290.05, Wis. Admin. Code.

Posting of Wage Rates and Hours. A clearly legible copy of the prevailing wage rate, together with the provisions of Sec. 66.0903(10)(a) and (11)(a), Wis. Stats., shall be kept posted in at least one conspicuous and easily accessible place at the project site by the Contractor and such notice shall remain posted during the full time any laborers, workers or mechanics are employed on the contract.

Evidence of Compliance by Contractor. Upon completion of the contract, the Contractor shall file with the Department of Public Works an affidavit stating:

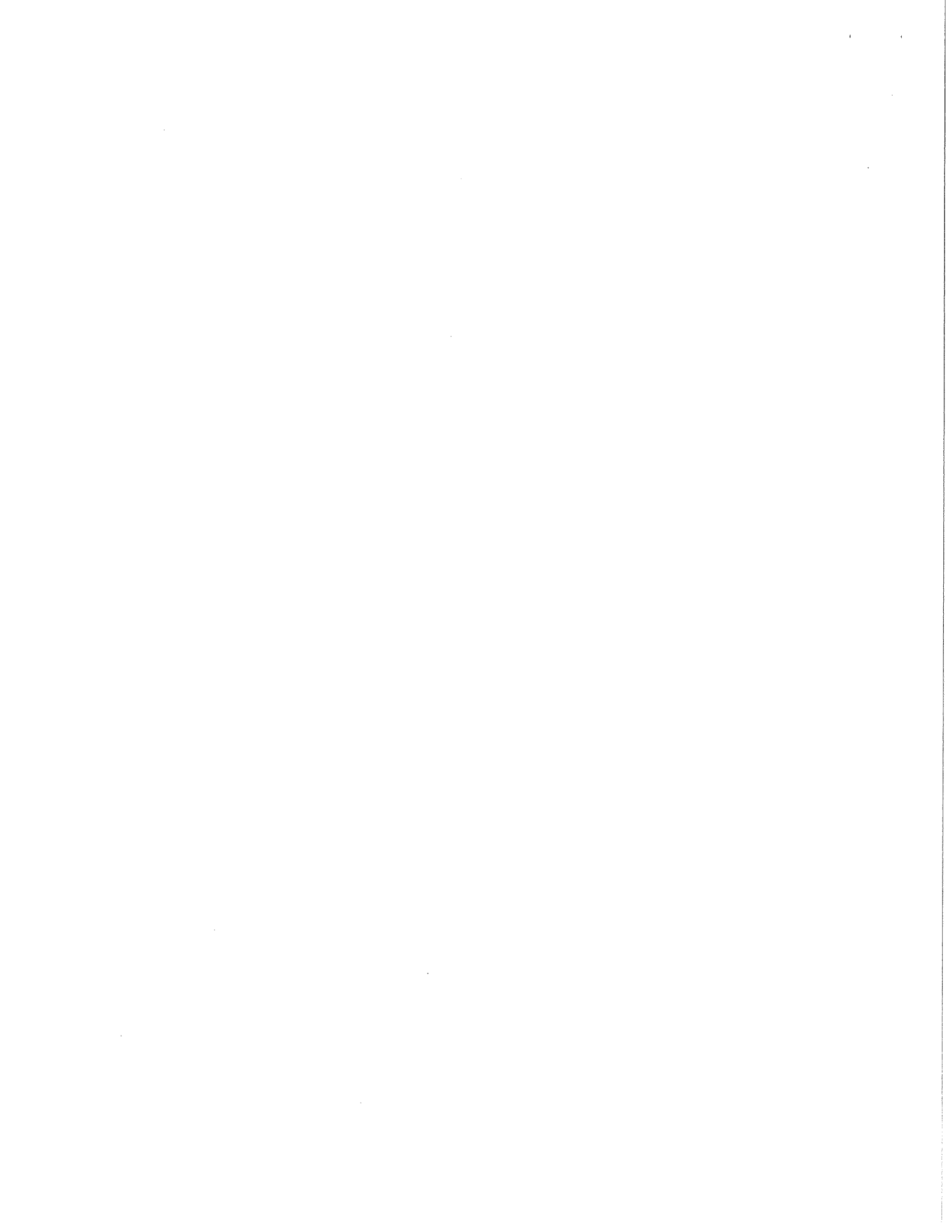
- a. That the Contractor has complied fully with the provisions and requirements of Sec. 66.0903(3), Wis. Stats., and Chapter DWD 290, Wis. Admin. Code; the Contractor has received evidence of compliance from each of the agents and subcontractors; and the names and addresses of all of the subcontractors and agents who worked on the contract.
- b. That full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefor; where these records will be kept and the name, address and telephone number of the person who will be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Evidence of Compliance by Agent and Subcontractor. Each agent and subcontractor shall file with the Contractor, upon completion of their portion of the work on the contract an affidavit stating that all the provisions of Sec. 66.0903(3), Wis. Stats., have been fully complied with and that full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefor; where these records shall be kept and the name, address and telephone number of the person who shall be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Failure to Comply with the Prevailing Wage Rate. If the Contractor fails to comply with the prevailing wage rate, she/he shall be in default on the contract.

5. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.



If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement

Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex or national origin and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

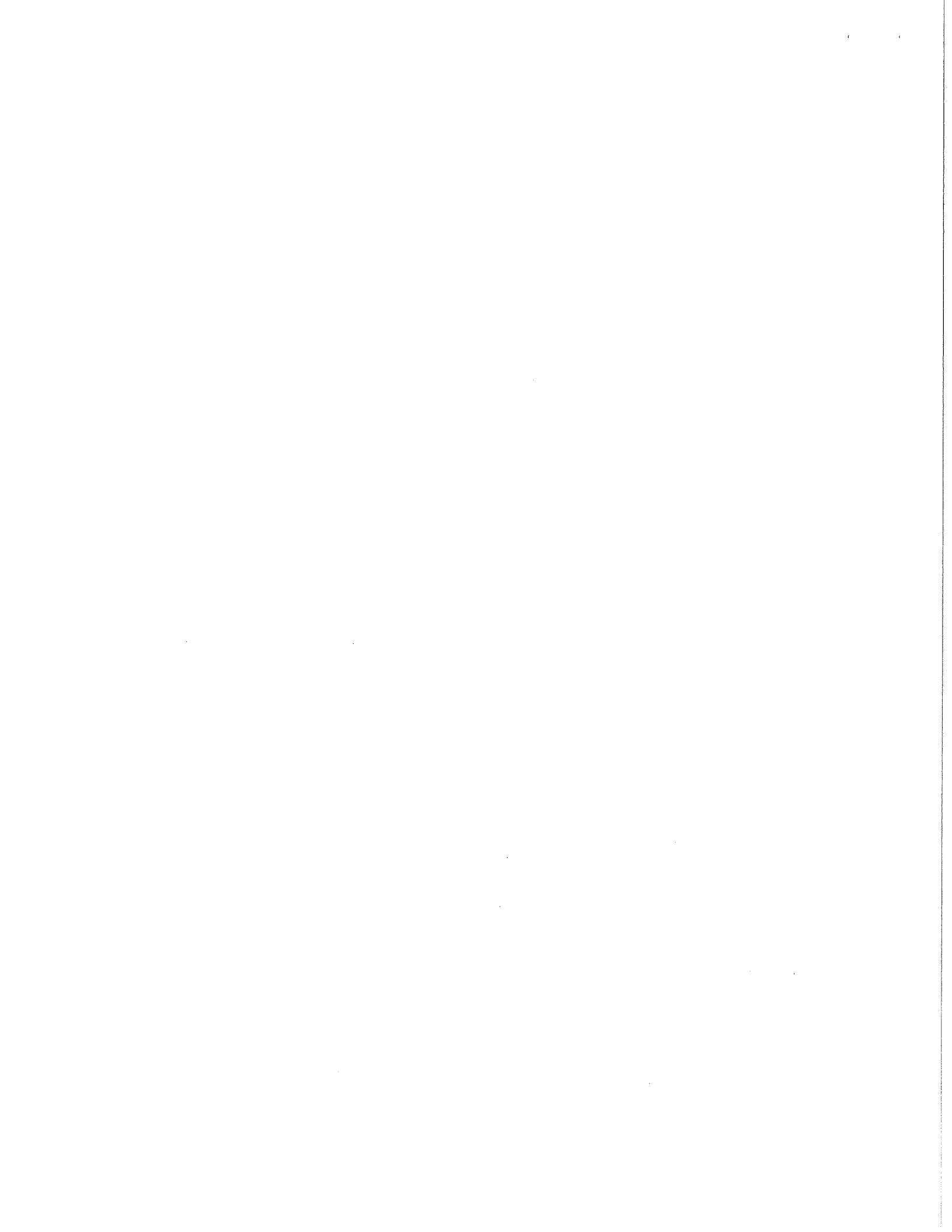
The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Director of Affirmative Action.



Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

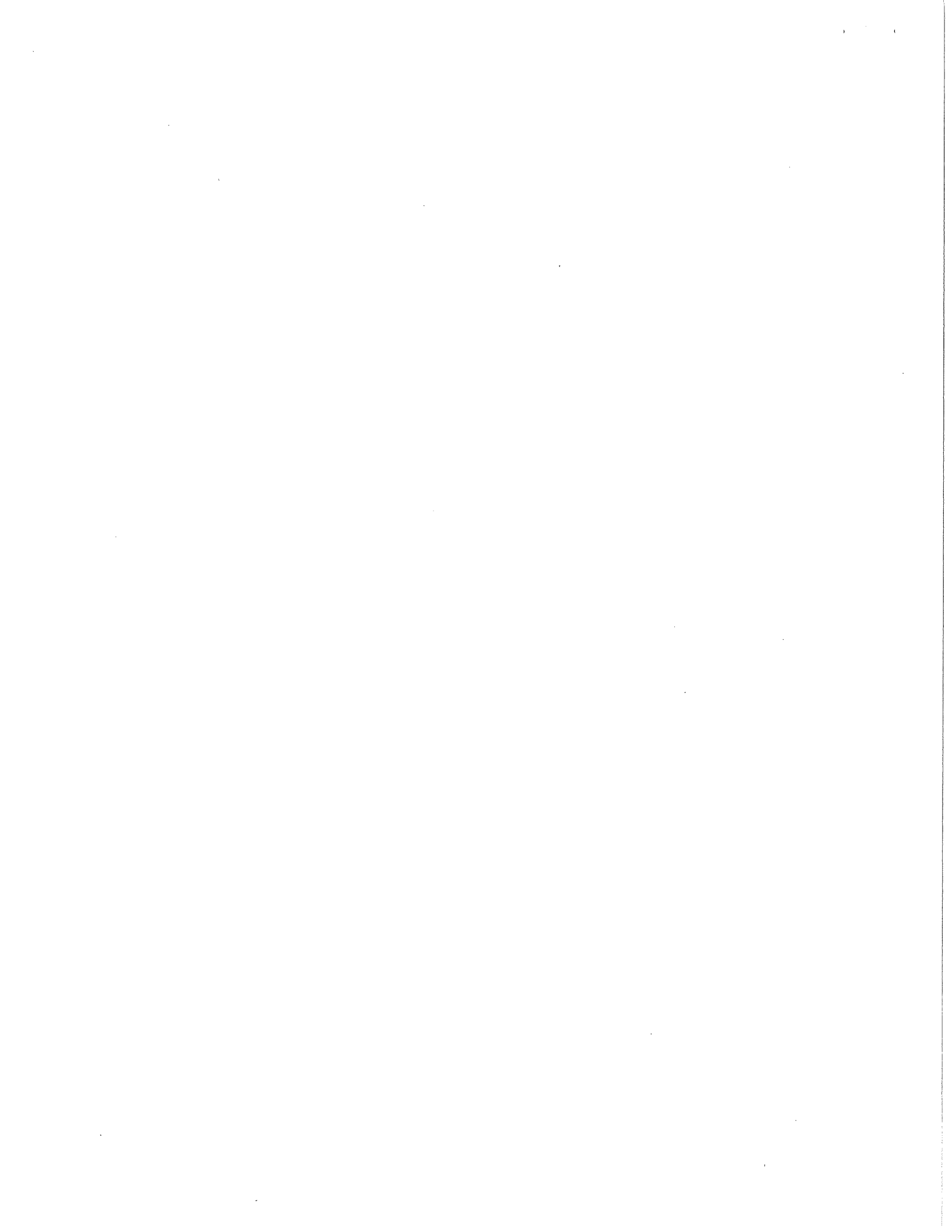
1. Cancel, terminate or suspend this Contract in whole or in part.
2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.
3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or five thousand dollars (\$5,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract.



**UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009**

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused these presents to be sealed with its corporate seal and to be subscribed by its Mayor and City Clerk the day and year first above written.

Countersigned:

SUPER EXCAVATORS, INC.

Company Name

[Signature] 3/25/13
Witness Date

[Signature] 3/25/13
President Jeffrey Weakly Date

[Signature] 3/25/13
Witness Date

[Signature] 3/25/13
Secretary Mary Wilcox Date

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

[Signature]
Finance Director

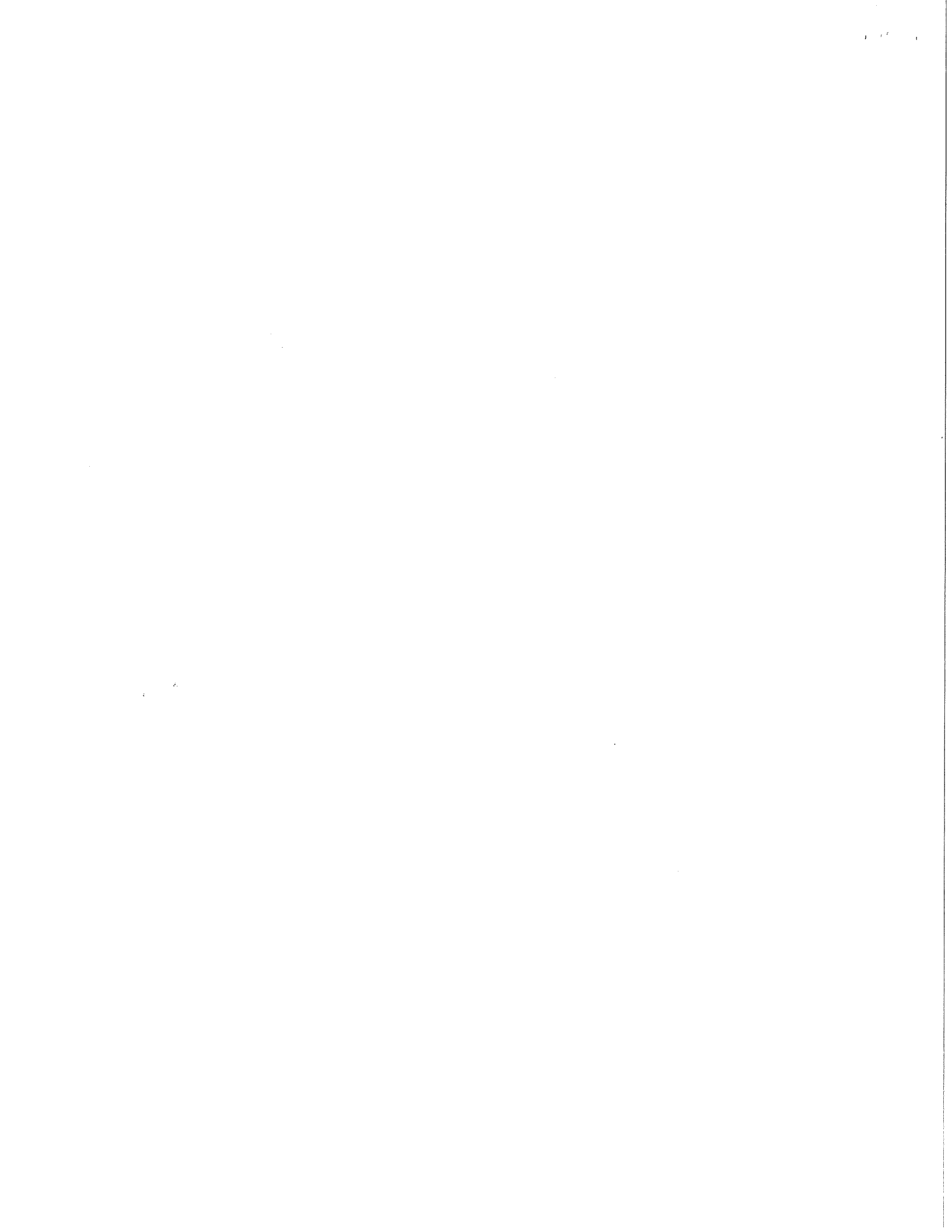
[Signature]
City Attorney

Signed this 29 day of April, 2013
[Signature]
Witness

[Signature] 4-2-13
Mayor Date

[Signature]
Witness

[Signature] 3-29-13
City Clerk Date



SECTION H: PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we SUPER EXCAVATORS, INC.
as principal, and Continental Casualty Company
Company of 333 S. Wabash Ave., Chicago, IL 60604 as surety, are held and firmly bound unto the City of
Madison, Wisconsin, in the sum of FOUR MILLION, FOUR HUNDRED EIGHTY-SIX
THOUSAND, FIVE HUNDRED FORTY-ONE DOLLARS & NO
CENTS (\$ 4,486,541.00), lawful money of the United States, for the payment of which sum to
the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by
these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully
perform all of the terms of the Contract entered into between him/herself and the City of Madison for the
construction of:

**UNIVERSITY RELIEF STORM SEWER – PHASE 4
CONTRACT NO. 7009**

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the
prosecution of said work, and save the City harmless from all claims for damages because of negligence
in the prosecution of said work, and shall save harmless the said City from all claims for compensation
(under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is
to be void, otherwise of full force, virtue and effect.

Signed and sealed this 25th day of March, 2013

Countersigned:

SUPER EXCAVATORS, INC.

Company Name (Principal)

[Signature]
Witness

[Signature]
President Jeffrey Weakly Seal

[Signature]
Secretary Mary Wilcox

Approved as to form:

Continental Casualty Company

Surety Seal
 Salary Employee Commission

[Signature]
City Attorney

By [Signature]
Attorney-in-Fact, Terence R. Geszvain

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under
License No. 2040178 for the year 2013, and appointed as attorney-in-fact with
authority to execute this payment and performance bond which power of attorney has not been revoked.

March 25, 2013
Date

[Signature]
Agent Signature Terence R. Geszvain

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company (herein called "the CNA Companies"), are duly organized and existing insurance companies having their principal offices in the City of Chicago, and State of Illinois, and that they do by virtue of the signatures and seals herein affixed hereby make, constitute and appoint

Randy L Brehmer, Terence R Geszvain, Lawrence A Michael, Robert W Lentz, Jason A Braatz, Christopher H Brehmer, Melissa A Hackstein, Individually

of Butler, WI, their true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on their behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of their insurance companies and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Boards of Directors of the insurance companies.

In Witness Whereof, the CNA Companies have caused these presents to be signed by their Vice President and their corporate seals to be hereto affixed on this 18th day of June, 2012.



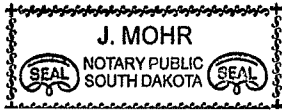
Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Handwritten signature of Paul T. Bruflat

Paul T. Bruflat Vice President

State of South Dakota, County of Minnehaha, ss:

On this 18th day of June, 2012, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company described in and which executed the above instrument; that he knows the seals of said insurance companies; that the seals affixed to the said instrument are such corporate seals; that they were so affixed pursuant to authority given by the Boards of Directors of said insurance companies and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance companies.



My Commission Expires June 23, 2015

Handwritten signature of J. Mohr

J. Mohr Notary Public

CERTIFICATE

I, D. Bult, Assistant Secretary of Continental Casualty Company, an Illinois insurance company, National Fire Insurance Company of Hartford, an Illinois insurance company, and American Casualty Company of Reading, Pennsylvania, a Pennsylvania insurance company do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance companies printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance companies this 25th day of March, 2013.



Continental Casualty Company
National Fire Insurance Company of Hartford
American Casualty Company of Reading, Pennsylvania

Handwritten signature of D. Bult

D. Bult Assistant Secretary

Authorizing By-Laws and Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF CONTINENTAL CASUALTY COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company at a meeting held on May 12, 1995:

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective.”

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of Continental Casualty Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

ADOPTED BY THE BOARD OF DIRECTORS OF NATIONAL FIRE INSURANCE COMPANY OF HARTFORD:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective.”

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of National fire Insurance Company of Hartford.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

ADOPTED BY THE BOARD OF DIRECTORS OF AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA:

This Power of Attorney is made and executed pursuant to and by authority of the following resolution duly adopted by the Board of Directors of the Company by unanimous written consent dated May 10, 1995:

“RESOLVED: That any Senior or Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Senior or Group Vice President to the Secretary of the Company prior to such execution becoming effective.”

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execute power of attorneys on behalf of American Casualty Company of Reading, Pennsylvania.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012:

“Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the “Authorized Officers”) to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, “Electronic Signatures”); Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company.”

State of Wisconsin Department of Workforce Development Equal Rights Division	DEPARTMENTAL ORDER
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ISSUE DATE: 1/10/2013

PROJECT:
 ALL PUBLIC WORKS PROJECTS UNDER SEC 66.0903, STATS - CITY OF MADISON
 MADISON CITY, DANE COUNTY, WI
 Determination No. 201300080

PROJECT OWNER:	REQUESTER:
ROBERT F. PHILLIPS, CITY ENGINEER CITY OF MADISON-ENGINEERING 210 MARTIN L KING JR BLVD, RM 115 MADISON, WI 53703	ROBERT F. PHILLIPS, CITY ENGINEER CITY OF MADISON-ENGINEERING 210 MARTIN L KING JR BLVD, RM 115 MADISON, WI 53703

ADDITIONAL CONTACT:	
NORMAN DAVIS, CONTRACT COMPLIANCE CITY OF MADISON-DEPT OF CIVIL RTS-AA DIV 210 MARTIN L KING JR BLVD, RM 523 MADISON, WI 537033342	

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.

ISSUED BY:

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/>

PREVAILING WAGE RATE DETERMINATION

Issued by the State of Wisconsin
Department of Workforce Development
Pursuant to s. 66.0903, Wis. Stats.
Issued On: 1/10/2013

DETERMINATION NUMBER: 201300080

EXPIRATION DATE: Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2013. If NOT, You MUST Reapply.

PROJECT NAME: ALL PUBLIC WORKS PROJECTS UNDER SEC 66.0903, STATS - CITY OF MADISON

PROJECT LOCATION: MADISON CITY, DANE COUNTY, WI

CONTRACTING AGENCY: CITY OF MADISON-ENGINEERING

CLASSIFICATION:	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: dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm .
OVERTIME:	<p>Time and one-half must be paid for all hours worked:</p> <ul style="list-style-type: none">- over 10 hours per day on prevailing wage projects- over 40 hours per calendar week- Saturday and Sunday- 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;- The day before if January 1, July 4 or December 25 falls on a Saturday;- The day following if January 1, July 4 or December 25 falls on a Sunday. <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>
FUTURE INCREASE:	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.
PREMIUM PAY:	If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.
DOT PREMIUM:	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.
APPRENTICES:	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.
SUBJOURNEY:	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.

BUILDING OR HEAVY CONSTRUCTION

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.

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
101	Acoustic Ceiling Tile Installer	30.16	15.31	45.47
102	Boilermaker	31.09	24.52	55.61
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$.80 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.	32.01	17.35	49.36
104	Cabinet Installer	30.16	15.31	45.47
105	Carpenter	30.16	15.31	45.47
106	Carpet Layer or Soft Floor Coverer	30.16	15.31	45.47
107	Cement Finisher	31.48	13.19	44.67
108	Drywall Taper or Finisher	25.10	14.78	39.88
109	Electrician 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.	32.94	18.80	51.74
110	Elevator Constructor	44.94	23.84	68.78
111	Fence Erector	22.50	3.98	26.48
112	Fire Sprinkler Fitter	36.07	18.60	54.67
113	Glazier	37.13	12.32	49.45
114	Heat or Frost Insulator	33.93	23.26	57.19
115	Insulator (Batt or Blown)	27.47	19.16	46.63
116	Ironworker	30.90	19.11	50.01
117	Lather	30.16	15.31	45.47
118	Line Constructor (Electrical)	37.05	16.94	53.99

Fringe Benefits Must Be Paid On <u>All</u> 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>
		\$	\$	\$
119	Marble Finisher	20.00	0.00	20.00
120	Marble Mason	32.01	16.85	48.86
121	Metal Building Erector	18.05	8.08	26.13
122	Millwright	31.76	15.36	47.12
123	Overhead Door Installer	13.50	0.00	13.50
124	Painter	24.80	14.78	39.58
125	Pavement Marking Operator	30.00	0.00	30.00
126	Piledriver	30.66	15.31	45.97
127	Pipeline Fuser or Welder (Gas or Utility)	30.18	19.29	49.47
129	Plasterer	30.03	16.36	46.39
130	Plumber	36.17	15.37	51.54
132	Refrigeration Mechanic	42.45	16.71	59.16
133	Rofer or Waterproofer	30.40	2.23	32.63
134	Sheet Metal Worker	34.23	20.19	54.42
135	Steamfitter	41.20	16.28	57.48
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.	21.89	11.85	33.74
138	Temperature Control Installer	41.20	16.21	57.41
139	Terrazzo Finisher Future Increase(s): Add \$.80 on 6/1/2013	26.57	16.50	43.07
140	Terrazzo Mechanic	29.51	17.63	47.14
141	Tile Finisher Future Increase(s): Add \$.80/hr on 6/1/2013.	23.77	16.50	40.27
142	Tile Setter Future Increase(s): Add \$.80/hr on 6/1/2013.	29.71	16.50	46.21
143	Tuckpointer, Caulker or Cleaner Future Increase(s): Add \$.80 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.	32.01	17.35	49.36

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> \$
144	Underwater Diver (Except on Great Lakes)	34.16	15.31	49.47
146	Well Driller or Pump Installer Future Increase(s): Add \$.20/hr on 06/01/2013.	25.32	15.45	40.77
147	Siding Installer	37.20	17.01	54.21
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	28.24	15.10	43.34
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	29.64	17.79	47.43
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	24.00	11.57	35.57

TRUCK DRIVERS

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> \$
201	Single Axle or Two Axle	31.89	17.98	49.87
203	Three or More Axle	18.00	11.45	29.45
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	18.00	11.45	29.45

LABORERS

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> \$
301	General Laborer Future Increase(s): Add \$.75/hr. on 06/03/2013 Premium Increase(s): Add \$1.00/hr for certified welder; Add \$.25/hr for mason tender	24.19	13.90	38.09
302	Asbestos Abatement Worker	18.00	0.00	18.00
303	Landscaper	15.00	3.90	18.90
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	20.94	12.65	33.59

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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.	18.31	12.67	30.98
314	Railroad Track Laborer	23.41	6.91	30.32
315	Final Construction Clean-Up Worker	24.69	12.90	37.59

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

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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). Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
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). Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
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. Future Increase(s): Add \$1/hr on 6/2/2013.	30.32	18.46	48.78

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
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. Future Increase(s): Add \$2.19/hr on 01/01/2013; Add \$2.00/hr on 01/01/2014. Premium Increase(s): Add \$.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	38.80	20.17	58.97
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. Future Increase(s): Add \$2.08/hr on 01/01/2013; Add \$2.00/hr on 01/01/2014.	34.50	20.04	54.54
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. Future Increase(s): Add \$1.88/hr on 01/01/2013; Add \$2.00/hr on 01/01/2014.	28.70	19.86	48.56
HEAVY EQUIPMENT OPERATORS EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK				

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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. Future Increase(s): Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.50/hr for >200 Ton / Add \$1/hr at 300 Ton / Add \$1.50 at 400 Ton / Add \$2/hr at 500 Ton & Over.	35.12	18.46	53.58

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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). Future Increase(s): Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.25/hr for all >45 Ton lifting capacity cranes.	34.12	18.46	52.58
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).	32.42	17.97	50.39
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). Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
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. Future Increase(s): Add \$1/hr on 6/2/2013.	30.32	18.46	48.78

Fringe Benefits Must Be Paid On <u>All</u> 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> \$
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. Future Increase(s): Add \$1/hr on 6/2/2013.	29.69	18.46	48.15
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$2/hr on 1/1/2013.	34.89	20.59	55.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add \$1.60/hr on 06/01/2013; Add \$1.60/hr on 06/01/2014; Add \$1.65/hr on 06/01/2015.	31.32	17.95	49.27
516	Fiber Optic Cable Equipment Future Increase(s): Add \$1.75/hr on 02/01/2013; Add \$1.75/hr on 02/01/2014	26.69	16.65	43.34

SEWER, WATER OR TUNNEL CONSTRUCTION

Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> 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> \$
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): 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.	35.80	16.87	52.67
105	Carpenter Future Increase(s): Add \$.75/hr on 6/3/2013. Add \$1.25/hr on 6/2/2014. 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.	32.93	19.81	52.74
107	Cement Finisher Future Increase(s): Add \$1.87 on 6/1/13; Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. Premium 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.	32.09	16.13	48.22
109	Electrician Future Increase(s): 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.	32.20	21.71	53.91
111	Fence Erector	22.50	3.98	26.48
116	Ironworker	30.90	19.11	50.01
118	Line Constructor (Electrical)	37.05	16.94	53.99
125	Pavement Marking Operator	28.10	15.00	43.10
126	Piledriver	30.66	15.31	45.97
130	Plumber	36.97	17.66	54.63

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> \$
135	Steamfitter	41.20	16.28	57.48
137	Teledata Technician or Installer	21.26	11.75	33.01
143	Tuckpointer, Caulker or Cleaner	32.01	16.85	48.86
144	Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
146	Well Driller or Pump Installer	21.00	2.23	23.23
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	28.24	15.10	43.34
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	29.64	17.79	47.43
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65

TRUCK DRIVERS

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> \$
201	Single Axle or Two Axle	25.87	13.00	38.87
203	Three or More Axle	17.54	13.85	31.39
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	31.89	17.98	49.87
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	17.00	0.00	17.00

LABORERS

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> \$
301	General Laborer Future Increase(s): Add \$.80/hr. on 06/03/2013 Premium Increase(s): Add \$.20 for blaster, bracer, manhole builder, caulker, bottomman and power tool; Add \$.55 for pipelayer; Add \$1.00 for tunnel work 0-15 lbs. compressed air; Add \$2.00 for over 15-30 lbs. compressed air; Add \$3.00 for over 30 lbs. compressed air.	25.53	13.89	39.42
303	Landscaper	26.92	12.51	39.43

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
304	Flagperson or Traffic Control Person	17.33	15.53	32.86
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.81	12.22	30.03
314	Railroad Track Laborer	23.41	6.91	30.32

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

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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. Future Increase(s): Add \$1/hr on 6/2/2013. Premium Increase(s): Add \$.50/hr for >200 Ton / Add \$1/hr at 300 Ton / Add \$1.50 at 400 Ton / Add \$2/hr at 500 Ton & Over.	35.12	18.46	53.58
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; Travelling Crane (Bridge Type). Future Increase(s): Add \$1/hr on 6/2/2013.	32.92	18.46	51.38
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 \$1/hr on 6/2/2013.	32.39	18.46	50.85

Fringe Benefits Must Be Paid On <u>All</u> 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> \$
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.	31.89	18.11	50.00
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 \$1/hr on 6/2/2013.	29.69	18.46	48.15
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	30.44	19.10	49.54
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
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.	37.45	19.45	56.90
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.	27.75	19.15	46.90
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.	27.75	19.15	46.90

AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION

Includes all airport projects (excluding buildings) and all projects awarded by the Wisconsin Department of Transportation (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	35.58	19.20	54.78
105	Carpenter	30.16	15.31	45.47
107	Cement Finisher Future Increase(s): Add \$1.87 on 6/1/13; Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16. Premium 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.	32.09	16.13	48.22
109	Electrician 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.	32.94	18.80	51.74
111	Fence Erector	28.00	4.50	32.50
116	Ironworker	30.90	19.11	50.01
118	Line Constructor (Electrical)	31.29	15.34	46.63
124	Painter	26.65	13.10	39.75
125	Pavement Marking Operator	29.22	16.71	45.93
126	Piledriver	30.66	15.31	45.97
133	Roofer or Waterproofer	30.40	2.23	32.63
137	Teledata Technician or Installer	21.26	11.75	33.01
143	Tuckpointer, Caulker or Cleaner	32.01	16.85	48.86
144	Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.64	17.00	46.64
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	35.50	15.09	50.59

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> \$
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65

TRUCK DRIVERS

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> \$
201	Single Axle or Two Axle	33.22	18.90	52.12
203	Three or More Axle Future Increase(s): 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.	23.31	17.13	40.44
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): 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 night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hccl/labor-wages-eeo/index.shtm .	27.77	19.90	47.67
205	Pavement Marking Vehicle	23.84	14.94	38.78
206	Shadow or Pilot Vehicle	33.22	18.90	52.12
207	Truck Mechanic	22.50	16.19	38.69

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
301	General Laborer Future Increase(s): Add \$1.70/hr on 6/1/2013; Add \$1.60/hr on 6/1/2014. Premium Increase(s): Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. / DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	28.35	13.90	42.25
302	Asbestos Abatement Worker	18.00	0.00	18.00
303	Landscaper Future Increase(s): Add \$1.70/hr on 6/1/13; Add \$1.60/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).	28.35	13.90	42.25
304	Flagperson or Traffic Control Person Future Increase(s): 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.	24.70	13.90	38.60
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.81	12.22	30.03
314	Railroad Track Laborer	23.41	6.91	30.32

**HEAVY EQUIPMENT OPERATORS
AIRPORT PAVEMENT OR STATE HIGHWAY CONSTRUCTION**

Fringe Benefits Must Be Paid On <u>All</u> 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> \$
531	Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium 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 night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm .	35.22	19.90	55.12
532	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 Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium 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 night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm .	34.72	19.90	54.62

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
533	<p>Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.</p> <p>Future Increase(s): 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 & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm.</p>	34.22	19.90	54.12
534	<p>Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.</p> <p>Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p> <p>Premium Increase(s):</p>	33.96	19.90	53.86

Fringe Benefits Must Be Paid On <u>All</u> 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> \$
	<p>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 night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtml.</p>			
535	<p>Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.</p> <p>Future Increase(s): 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 & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtml.</p>	33.67	19.90	53.57
536	Fiber Optic Cable Equipment.	25.74	15.85	41.59
537	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
538	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.	37.45	19.45	56.90
539	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.	27.75	19.15	46.90
540	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

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION

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).

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
103	Bricklayer, Blocklayer or Stonemason	33.00	15.00	48.00
105	Carpenter	30.16	15.31	45.47
107	Cement Finisher	31.48	15.68	47.16
109	Electrician 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.	32.94	18.80	51.74
111	Fence Erector	22.50	3.98	26.48
116	Ironworker	30.90	19.11	50.01
118	Line Constructor (Electrical)	37.05	16.94	53.99
124	Painter	24.80	14.78	39.58
125	Pavement Marking Operator	28.10	15.00	43.10
126	Piledriver	30.66	15.31	45.97
133	Roofer or Waterproofer	30.40	2.23	32.63
137	Teledata Technician or Installer	21.26	11.75	33.01
143	Tuckpointer, Caulker or Cleaner	32.01	16.85	48.86
144	Underwater Diver (Except on Great Lakes)	37.45	19.45	56.90
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	29.64	14.55	44.19
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	29.64	17.79	47.43
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.94	13.57	39.51
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.08	12.96	37.04
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.90	33.65

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
201	Single Axle or Two Axle	25.87	13.00	38.87
203	Three or More Axle	17.00	0.00	17.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
205	Pavement Marking Vehicle	20.85	11.02	31.87
206	Shadow or Pilot Vehicle	25.87	13.00	38.87
207	Truck Mechanic	17.00	0.00	17.00

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
301	General Laborer	27.20	13.37	40.57
303	Landscaper	18.25	1.11	19.36
304	Flagperson or Traffic Control Person	17.33	15.53	32.86
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.81	12.22	30.03
314	Railroad Track Laborer	23.41	6.91	30.32

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

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> \$
541	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. Future Increase(s): 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 night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtml .	35.22	19.90	55.12
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Calsson 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; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14. Premium 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 night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtml .	34.72	19.90	54.62

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
543	<p>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.</p> <p>Future Increase(s): 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 & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm.</p>	34.22	19.90	54.12
544	<p>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.</p> <p>Future Increase(s): 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 & Christmas Day. 2) Add \$1.25/hr night work premium. See DOT's website for details about the applicability of this night work premium at: http://roadwaystandards.dot.wi.gov/hcci/labor-wages-eeo/index.shtm.</p>	33.96	19.90	53.86

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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.	29.82	17.98	47.80
546	Fiber Optic Cable Equipment.	25.74	15.85	41.59
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	37.45	19.45	56.90
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.	37.45	19.45	56.90
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.	27.75	19.15	46.90
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.	27.75	19.15	46.90

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

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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.	34.62	17.98	52.60
552	Backhoe (Track Type) Having a Mfr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With 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; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1/hr on 6/2/2013.	32.92	18.46	51.38

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
553	<p>Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & 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. & Under); Bituminous (Asphalt) Plant & 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 & 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 & A-Frames.</p> <p>Future Increase(s): Add \$1/hr on 6/2/2013.</p>	32.39	18.46	50.85
554	<p>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.</p> <p>Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p>	33.67	19.55	53.22
555	<p>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.</p> <p>Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.</p>	33.67	19.55	53.22
556	Fiber Optic Cable Equipment.	25.74	15.85	41.59

RESIDENTIAL OR AGRICULTURAL CONSTRUCTION

Includes single family houses or apartment buildings of no more than four (4) stories in height and all buildings, structures or facilities that are primarily used for agricultural or farming purposes, excluding commercial buildings. For classification purposes, the exterior height of a residential building, in terms of stories, is the primary consideration. All incidental items such as site work, driveways, parking lots, private sidewalks, private septic systems or sewer and water laterals connected to a public system and swimming pools are included within this definition. Residential buildings of five (5) stories and above are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
101	Acoustic Ceiling Tile Installer	19.50	11.10	30.60
102	Boilermaker	31.09	24.52	55.61
103	Bricklayer, Blocklayer or Stonemason	23.00	0.00	23.00
104	Cabinet Installer	16.25	3.22	19.47
105	Carpenter	30.16	1.36	31.52
106	Carpet Layer or Soft Floor Coverer	23.95	6.48	30.43
107	Cement Finisher	22.46	2.71	25.17
108	Drywall Taper or Finisher	15.50	0.00	15.50
109	Electrician	17.00	13.64	30.64
110	Elevator Constructor	44.94	23.84	68.78
111	Fence Erector	18.52	5.93	24.45
112	Fire Sprinkler Fitter	36.07	18.60	54.67
113	Glazier	37.13	12.32	49.45
114	Heat or Frost Insulator	35.00	0.00	35.00
115	Insulator (Batt or Blown)	18.50	13.98	32.48
116	Ironworker	30.90	19.11	50.01
117	Lather	30.16	1.36	31.52
119	Marble Finisher	16.50	2.38	18.88
120	Marble Mason	23.00	0.00	23.00
121	Metal Building Erector	16.52	1.82	18.34
123	Overhead Door Installer	17.00	0.00	17.00
124	Painter	23.00	11.27	34.27
125	Pavement Marking Operator	28.10	15.00	43.10

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
129	Plasterer	20.00	0.00	20.00
130	Plumber	38.90	0.00	38.90
132	Refrigeration Mechanic	33.00	1.79	34.79
133	Roofer or Waterproofer	17.50	3.73	21.23
134	Sheet Metal Worker	21.03	3.40	24.43
135	Steamfitter	41.20	16.28	57.48
137	Teledata Technician or Installer	19.23	1.46	20.69
138	Temperature Control Installer	21.00	0.00	21.00
139	Terrazzo Finisher	26.57	16.00	42.57
140	Terrazzo Mechanic	30.01	17.13	47.14
141	Tile Finisher	20.60	4.88	25.48
142	Tile Setter	19.00	0.00	19.00
143	Tuckpointer, Caulker or Cleaner	32.50	2.84	35.34
146	Well Driller or Pump Installer	19.00	7.30	26.30
147	Siding Installer	19.07	0.00	19.07

TRUCK DRIVERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
201	Single Axle or Two Axle	28.05	4.18	32.23
203	Three or More Axle	20.00	4.37	24.37
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	19.00	1.85	20.85

LABORERS

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
301	General Laborer	19.80	7.22	27.02
302	Asbestos Abatement Worker	18.00	6.24	24.24
303	Landscaper	13.15	6.51	19.66

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> \$
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	17.81	12.22	30.03
315	Final Construction Clean-Up Worker	15.00	0.00	15.00

**HEAVY EQUIPMENT OPERATORS
RESIDENTIAL OR AGRICULTURAL CONSTRUCTION**

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> \$
557	Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type); Backhoe (Mini, 15,000.Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; 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; Crane, Shovel, Dragline, Clamshells; Forestry Equipment, TImbco, Tree Shear, Tub Grinder, Processor; 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; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); 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); Winches & A-Frames.	31.89	18.20	50.09
558	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Backfiller; Belting, Burlap, Texturing Machine; Boiler (Temporary Heat); Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Jeep Digger; Lift Slab Machine; Mulcher; Oiler; Post Hole Digger or Driver; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Roller (Rubber Tire, 5 Tons or Under); Screed (Milling Machine); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Stump Chipper; Telehandler; Vibratory Hammer or Extractor, Power Pack.	28.70	4.91	33.61

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

