

Contract Routing Form

ROUTING: Routine

printed on: 09/23/2013

Contract between: Joe Daniels Construction Co Inc
 and Dept. or Division: Engineering Division
 Name/Phone Number:

Project: City-County Building GR-10 Reception Windows Replacement

Contract No.: 7134
 Enactment No.: RES-13-00738
 Dollar Amount: 81,462.00

File No.: 31441
 Enactment Date: 09/20/2013

(Please DATE before routing)

Signatures Required	Date Received	Date Signed
City Clerk	9.23.13	9-23-2013
Director of Civil Rights	9-24-13	9-24-13 <i>MO</i>
Risk Manager	9-24-13	9/25/13 <i>RM</i>
Finance Director	9-25-13	9-25-13 <i>RM</i>
City Attorney	1428 9-25-13	9-26-13
Mayor	9.26.13	9-27-13

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

76 + 81537134

Original + 2 Copies

09/23/2013 15:02:26 enjls - Jim Whitney, 266-4563

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



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CITY OF MADISON - WISCONSIN

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File #:	31441	Version: 1	Name:	Awarding Public Works Contract No. 7134, City-County Building GR-10 Reception Windows Replacement.
Type:	Resolution		Status:	Passed
File created:	8/28/2013		In control:	<u>BOARD OF PUBLIC WORKS</u>
On agenda:	9/17/2013		Final action:	9/17/2013
Enactment date:	9/20/2013		Enactment #:	RES-13-00738
Title:	Awarding Public Works Contract No. 7134, City-County Building GR-10 Reception Windows Replacement.			
Sponsors:	<u>BOARD OF PUBLIC WORKS</u>			
Attachments:	1. Cont 7134.pdf			

[History \(3\)](#) |
 [Text](#)

Fiscal Note

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

Title

Awarding Public Works Contract No. 7134, City-County Building GR-10 Reception Windows Replacement.

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.7134) for itemization of bids.

PROJECT _____ CONTRACTOR _____ AMOUNT OF BID _____

CONTRACT NO. 7134
CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT
(BASE BID + ALT #1 + ALT #2)

JOE DANIELS CONSTRUCTION CO., INC. \$81,462.00

Acct. No. CB71-58401-810568 \$81,462.00
Contingency 8%± 6,518.00

GRAND TOTAL \$87,980.00

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

Monday, September 16, 2013

MCKENNA, PATRICK A
MADISON WI

Year of Birth: 1959
Status: Active
License Number: 2349196
NPN**: 650765
Effective Date: 06-27-1996
Expiration Date: 04-30-2014
License Type: Resident Intermediary Indv
CE Compliance: 04-30-2014

Lines of Authority

Line of Authority	Residency	Effective Date	Status
Property	Resident	06-27-1996	Active
Casualty	Resident	06-27-1996	Active

Appointments and Terminations

Company Name	Qualification Type/Status	Effective Date	Termination Date	Termination Reason
ACE American Insurance Company	CAS/Active	06-23-1999		
	PROP/Active	06-23-1999		
ACE Fire Underwriters Insurance Company	CAS/Inactive	06-23-1999	10-01-2002	Inadequate Production
	PROP/Inactive	06-23-1999	10-01-2002	Inadequate Production
ACE Property and Casualty Insurance Company	CAS/Active	06-23-1999		
	PROP/Active	06-23-1999		
ACUITY, A Mutual Insurance Company	CAS/Active	08-14-2007		
	CAS/Inactive	07-30-1996	08-07-2007	Canceled
	PROP/Active	08-14-2007		
Addison Insurance Company	PROP/Inactive	07-30-1996	08-07-2007	Canceled
	CAS/Active	09-19-2007		
ALLIED Property and Casualty Insurance Company	PROP/Active	09-19-2007		
	CAS/Inactive	07-14-2003	04-07-2010	Canceled
AMCO Insurance Company	PROP/Inactive	07-14-2003	04-07-2010	Canceled
	CAS/Inactive	07-14-2003	04-07-2010	Canceled
American and Foreign Insurance Company	CAS/Inactive	10-04-2000	02-10-2005	Canceled
	PROP/Inactive	10-04-2000	02-07-2005	Canceled

American Casualty Company of Reading, Pennsylvania	CAS/Inactive	08-21-1996	01-05-2006	Canceled
	PROP/Inactive	08-21-1996	01-05-2006	Canceled
American Economy Insurance Company	CAS/Active	02-10-1998		
	PROP/Active	02-10-1998		
American Guarantee and Liability Insurance Company	CAS/Active	06-08-1999		
	PROP/Active	06-08-1999		
American Insurance Company, The	CAS/Inactive	07-25-1996	09-29-2005	Inadequate Production
	PROP/Inactive	07-25-1996	09-29-2005	Inadequate Production
American Manufacturers Mutual Insurance Company	CAS/Inactive	08-20-1996	02-17-2005	Canceled
	PROP/Inactive	08-20-1996	02-17-2005	Canceled
American Motorists Insurance Company	CAS/Inactive	08-20-1996	02-17-2005	Canceled
	PROP/Inactive	08-20-1996	02-17-2005	Canceled
American Protection Insurance Company	CAS/Inactive	08-20-1996	02-02-2005	Canceled
	PROP/Inactive	08-20-1996	02-02-2005	Canceled
American States Insurance Company	CAS/Inactive	02-10-1998	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	02-10-1998	11-20-2009	Vol. Surrender per Agent Rqst
American Zurich Insurance Company	CAS/Active	06-08-1999		
	PROP/Active	06-08-1999		
Arrowood Indemnity Company	CAS/Inactive	10-04-2000	08-28-2006	Vol. Surrender per Agent Rqst
	PROP/Inactive	10-04-2000	08-28-2006	Vol. Surrender per Agent Rqst
Artisan and Truckers Casualty Company	CAS/Inactive	01-15-2008	06-30-2008	Vol. Surrender per Agent Rqst
	PROP/Inactive	01-15-2008	06-30-2008	Vol. Surrender per Agent Rqst
Associated Indemnity Corporation	CAS/Inactive	07-25-1996	09-29-2005	Inadequate Production
	PROP/Inactive	07-25-1996	09-29-2005	Inadequate Production
Assurance Company of America	CAS/Inactive	09-09-1998	07-23-2012	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-09-1998	07-23-2012	Vol. Surrender per Agent Rqst
Automobile Insurance Company of Hartford, Connecticut, The	CAS/Inactive	06-14-2001	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	06-14-2001	11-28-2005	Vol. Surrender per

				Agent Rqst
AXIS Insurance Company	CAS/Inactive	07-25-1996	01-06-2005	Inadequate Production
	PROP/Inactive	07-25-1996	01-06-2005	Inadequate Production
Bankers Standard Insurance Company	CAS/Active	06-23-1999		
	PROP/Active	06-23-1999		
Berkley Regional Insurance Company	CAS/Active	04-22-2005		
	PROP/Active	04-22-2005		
Bituminous Casualty Corporation	CAS/Active	06-30-2005		
	PROP/Active	06-30-2005		
Bituminous Fire and Marine Insurance Company	CAS/Active	06-30-2005		
	PROP/Active	06-30-2005		
Capitol Indemnity Corporation	CAS/Active	07-24-1996		
	PROP/Active	07-24-1996		
Charter Oak Fire Insurance Company, The	CAS/Active	09-26-2007		
	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Active	09-26-2007		
	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
Chubb Indemnity Insurance Company	PROP/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Active	05-12-2008		
	CAS/Inactive	09-10-1996	12-26-2006	Canceled
Chubb National Insurance Company	PROP/Active	05-12-2008		
	PROP/Inactive	09-10-1996	12-26-2006	Canceled
Cincinnati Casualty Company, The	CAS/Active	08-17-2007		
	PROP/Active	08-17-2007		
Cincinnati Indemnity Company, The	CAS/Active	08-17-2007		
	PROP/Active	08-17-2007		
Cincinnati Insurance Company, The	CAS/Active	08-17-2007		
	PROP/Active	08-17-2007		
Citizens Insurance Company of America	CAS/Inactive	12-18-1997	08-03-2005	Inadequate Production
	PROP/Inactive	12-18-1997	08-03-2005	Inadequate Production
Consolidated Insurance Company	CAS/Inactive	03-24-2000	11-20-2009	Vol. Surrender per Agent Rqst

	PROP/Inactive	03-24-2000	11-20-2009	Vol. Surrender per Agent Rqst
Continental Casualty Company	CAS/Inactive	08-21-1996	01-05-2006	Canceled
	PROP/Inactive	08-21-1996	01-05-2006	Canceled
Continental Insurance Company, The	CAS/Inactive	02-24-2006	09-15-2008	Canceled
	PROP/Inactive	02-24-2006	09-15-2008	Canceled
Continental Western Insurance Company	CAS/Inactive	08-12-2005	04-24-2009	Canceled
	PROP/Inactive	08-12-2005	04-24-2009	Canceled
Depositors Insurance Company	CAS/Inactive	07-14-2003	04-07-2010	Canceled
	PROP/Inactive	07-14-2003	04-07-2010	Canceled
Donegal Mutual Insurance Company	CAS/Active	11-09-2012		
	PROP/Active	11-09-2012		
Emcasco Insurance Company	CAS/Active	09-21-2007		
	PROP/Active	09-21-2007		
Employers Insurance Company of Wausau	CAS/Inactive	07-18-2005	12-10-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	08-23-1996	05-14-2003	Inadequate Production
	PROP/Inactive	07-18-2005	12-10-2007	Vol. Surrender per Agent Rqst
	PROP/Inactive	08-23-1996	05-14-2003	Inadequate Production
Employers Mutual Casualty Company	CAS/Active	09-21-2007		
	PROP/Active	09-21-2007		
Executive Risk Indemnity Inc.	CAS/Active	05-12-2008		
	CAS/Inactive	06-16-2000	12-26-2006	Canceled
	PROP/Active	05-12-2008		
Fairmont Insurance Company	PROP/Inactive	06-16-2000	12-26-2006	Canceled
	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
Fairmont Premier Insurance Company	PROP/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
Farmington Casualty Company	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
Farmington Casualty Company	CAS/Inactive	07-19-1996	11-20-2000	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-19-1996	11-20-2000	Vol. Surrender per Agent Rqst
Federal Insurance Company	CAS/Active	05-12-2008		
	CAS/Inactive	09-10-1996	12-26-2006	Canceled

	PROP/Active	05-12-2008		
	PROP/Inactive	09-10-1996	12-26-2006	Canceled
Fidelity and Deposit Company of Maryland	CAS/Active	07-23-1996		
	PROP/Active	07-23-1996		
Fidelity and Guaranty Insurance Company	CAS/Inactive	08-02-1996	02-09-2007	Vol. Surrender per Agent Rqst
	PROP/Inactive	08-02-1996	02-09-2007	Vol. Surrender per Agent Rqst
Fidelity and Guaranty Insurance Underwriters, Inc.	CAS/Inactive	08-02-1996	02-09-2007	Vol. Surrender per Agent Rqst
	PROP/Inactive	08-02-1996	02-09-2007	Vol. Surrender per Agent Rqst
Fidelity National Property and Casualty Insurance Company	CAS/Inactive	01-12-1999	02-21-2000	Inadequate Production
	PROP/Inactive	01-12-1999	02-21-2000	Inadequate Production
Fireman's Fund Insurance Company	CAS/Inactive	07-25-1996	09-29-2005	Inadequate Production
	PROP/Inactive	07-25-1996	09-29-2005	Inadequate Production
Firemen's Insurance Company of Newark, New Jersey	CAS/Inactive	12-11-1996	01-22-1999	Inadequate Production
	PROP/Inactive	12-11-1996	01-22-1999	Inadequate Production
First Liberty Insurance Corporation, The	CAS/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
First National Insurance Company of America	CAS/Inactive	07-24-1996	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-24-1996	11-20-2009	Vol. Surrender per Agent Rqst
General Casualty Company of Wisconsin	CAS/Active	08-16-2007		
	PROP/Active	08-16-2007		
General Insurance Company of America	CAS/Inactive	07-24-1996	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-24-1996	11-20-2009	Vol. Surrender per Agent Rqst
Globe Indemnity Company	CAS/Inactive	10-04-2000	02-07-2005	Canceled
	PROP/Inactive	10-04-2000	02-07-2005	Canceled
Great American Alliance Insurance Company	CAS/Inactive	07-26-1996	01-07-2002	Inadequate Production
	PROP/Inactive	07-26-1996	01-07-2002	Inadequate Production
Great American	CAS/Inactive	07-26-1996	01-07-2002	Inadequate Production

Assurance Company	PROP/Inactive	07-26-1996	01-07-2002	Inadequate Production
Great American Insurance Company	CAS/Inactive	07-26-1996	01-07-2002	Inadequate Production
	PROP/Inactive	07-26-1996	01-07-2002	Inadequate Production
Great American Insurance Company of New York	CAS/Inactive	07-26-1996	01-07-2002	Inadequate Production
	PROP/Inactive	07-26-1996	01-07-2002	Inadequate Production
Great Northern Insurance Company	CAS/Active	05-12-2008		
	CAS/Inactive	09-10-1996	12-26-2006	Canceled
	PROP/Active	05-12-2008		
	PROP/Inactive	09-10-1996	12-26-2006	Canceled
Guarantee Company of North America USA, The	CAS/Active	07-28-1998		
Gulf Insurance Company	CAS/Inactive	09-10-1996	06-30-2005	Inadequate Production
	PROP/Inactive	09-10-1996	06-30-2005	Inadequate Production
Hanover Insurance Company, The	CAS/Inactive	12-18-1997	08-03-2005	Inadequate Production
	PROP/Inactive	12-18-1997	08-03-2005	Inadequate Production
Hartford Casualty Insurance Company	CAS/Inactive	04-26-2000	10-26-2009	Canceled
	PROP/Inactive	04-26-2000	10-26-2009	Canceled
Hartford Fire Insurance Company	CAS/Inactive	04-26-2000	10-26-2009	Canceled
	PROP/Inactive	04-26-2000	10-26-2009	Canceled
Hartford Insurance Company of the Midwest	CAS/Inactive	04-26-2000	10-31-2008	Canceled
	PROP/Inactive	04-26-2000	10-31-2008	Canceled
Hartford Steam Boiler Inspection and Insurance Company, The	CAS/Inactive	05-12-1999	10-30-2008	Canceled
	PROP/Inactive	05-12-1999	10-21-2008	Canceled
Hartford Underwriters Insurance Company	CAS/Inactive	04-26-2000	10-31-2008	Canceled
	PROP/Inactive	04-26-2000	10-31-2008	Canceled
Hawkeye-Security Insurance Company	CAS/Inactive	01-14-2003	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	01-14-2003	11-20-2009	Vol. Surrender per Agent Rqst
HDI-Gerling America Insurance Company	CAS/Active	09-08-2005		
	PROP/Active	09-08-2005		
HIH America Compensation & Liability Insurance Company	CAS/Inactive	04-08-1999	05-11-2001	Company Defunct or Liquidation
	PROP/Inactive	04-08-1999	05-11-2001	Company Defunct or Liquidation

Indemnity Insurance Company of North America	CAS/Inactive	06-23-1999	10-01-2002	Inadequate Production
	PROP/Inactive	06-23-1999	10-01-2002	Inadequate Production
Indiana Insurance Company	CAS/Inactive	03-24-2000	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	03-24-2000	11-20-2009	Vol. Surrender per Agent Rqst
Insurance Company of North America	CAS/Active	06-23-1999		
	PROP/Active	06-23-1999		
Liberty Mutual Fire Insurance Company	CAS/Inactive	03-13-2006	12-06-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	03-13-2006	12-06-2007	Vol. Surrender per Agent Rqst
	PROP/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
Liberty Mutual Insurance Company	CAS/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
LM Insurance Corporation	CAS/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	01-14-2002	12-27-2005	Vol. Surrender per Agent Rqst
Lumbermens Mutual Casualty Company	CAS/Inactive	08-20-1996	02-17-2005	Canceled
	PROP/Inactive	08-20-1996	02-17-2005	Canceled
Maryland Casualty Company	CAS/Inactive	09-09-1998	07-23-2012	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-09-1998	07-23-2012	Vol. Surrender per Agent Rqst
Massachusetts Bay Insurance Company	CAS/Inactive	12-18-1997	08-03-2005	Inadequate Production
	PROP/Inactive	12-18-1997	08-03-2005	Inadequate Production
Merchants Bonding Company (Mutual)	CAS/Active	08-20-2007		
	CAS/Inactive	07-19-1996	09-27-2005	Canceled
Merchants National Bonding, Inc.	CAS/Active	02-06-2013		
MetLife Insurance Company of Connecticut	CAS/Inactive	09-04-1996	04-21-2003	Inadequate Production
Middlesex Mutual Assurance Company	CAS/Inactive	03-08-2006	01-17-2011	Vol. Surrender per Agent Rqst
	PROP/Inactive	03-08-2006	01-17-2011	Vol. Surrender per

				Agent Rqst
National Fire Insurance Company of Hartford	CAS/Inactive	08-21-1996	01-05-2006	Canceled
	PROP/Inactive	08-21-1996	01-05-2006	Canceled
National Surety Corporation	CAS/Inactive	07-25-1996	09-29-2005	Inadequate Production
	PROP/Inactive	07-25-1996	09-29-2005	Inadequate Production
Nationwide Affinity Insurance Company of America	CAS/Inactive	04-11-2005	04-07-2010	Canceled
	PROP/Inactive	04-11-2005	04-07-2010	Canceled
Nationwide Mutual Insurance Company	CAS/Inactive	07-14-2003	04-07-2010	Canceled
	PROP/Inactive	07-14-2003	04-07-2010	Canceled
Navigators Insurance Company	CAS/Inactive	02-19-2004	04-30-2008	Canceled
	PROP/Inactive	02-19-2004	04-30-2008	Canceled
Netherlands Insurance Company, The	CAS/Inactive	08-12-1996	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	08-12-1996	11-20-2009	Vol. Surrender per Agent Rqst
North American Specialty Insurance Company	CAS/Active	09-18-2000		
	PROP/Active	09-18-2000		
North River Insurance Company, The	CAS/Inactive	12-23-1996	12-17-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	12-23-1996	12-17-2009	Vol. Surrender per Agent Rqst
Northern Insurance Company of New York	CAS/Inactive	09-09-1998	07-23-2012	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-09-1998	07-23-2012	Vol. Surrender per Agent Rqst
Northwestern National Casualty Company	CAS/Inactive	04-14-1999	02-28-2001	Vol. Surrender per Agent Rqst
	PROP/Inactive	04-14-1999	02-28-2001	Vol. Surrender per Agent Rqst
Old Republic Insurance Company	CAS/Active	08-07-2007		
	CAS/Inactive	08-02-1996	04-20-2005	Canceled
	PROP/Inactive	08-02-1996	04-20-2005	Canceled
Old Republic Surety Company	CAS/Active	08-07-2007		
	CAS/Inactive	08-02-1996	04-20-2005	Canceled
	PROP/Inactive	08-02-1996	04-20-2005	Canceled
Pacific Employers Insurance Company	CAS/Active	06-23-1999		
	PROP/Active	06-23-1999		
Pacific Indemnity	CAS/Active	05-12-2008		

Company	CAS/Inactive	09-10-1996	12-26-2006	Canceled
	PROP/Active	05-12-2008		
Peerless Indemnity Insurance Company	PROP/Inactive	09-10-1996	12-26-2006	Canceled
	CAS/Inactive	06-21-2004	11-20-2009	Vol. Surrender per Agent Rqst
Peerless Insurance Company	PROP/Inactive	06-21-2004	11-20-2009	Vol. Surrender per Agent Rqst
	CAS/Inactive	08-12-1996	11-20-2009	Vol. Surrender per Agent Rqst
Peerless Insurance Company	PROP/Inactive	08-12-1996	11-20-2009	Vol. Surrender per Agent Rqst
	CAS/Active	09-26-2007		
Phoenix Insurance Company, The	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
Phoenix Insurance Company, The	PROP/Active	09-26-2007		
	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
Pioneer Specialty Insurance Company	PROP/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Active	08-01-2013		
Platte River Insurance Company	PROP/Active	08-01-2013		
	CAS/Active	07-12-2005		
Progressive Classic Insurance Company	PROP/Active	07-12-2005		
	CAS/Inactive	07-18-2005	06-30-2008	Vol. Surrender per Agent Rqst
Progressive Northern Insurance Company	PROP/Inactive	07-18-2005	06-30-2008	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-18-2005	06-30-2008	Vol. Surrender per Agent Rqst
Progressive Northern Insurance Company	PROP/Inactive	07-18-2005	06-30-2008	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-05-2005	10-31-2008	Canceled
Property and Casualty Insurance Company of Hartford	PROP/Inactive	07-05-2005	10-31-2008	Canceled
	CAS/Active	08-16-2007		
Regent Insurance Company	PROP/Active	08-16-2007		
	CAS/Inactive	10-04-2000	02-08-2005	Canceled
Royal Insurance Company of America	PROP/Inactive	10-04-2000	02-07-2005	Canceled
	CAS/Inactive	07-24-1996	11-20-2009	Vol. Surrender per Agent Rqst
SAFECO Insurance Company of America				

	PROP/Inactive	07-24-1996	11-20-2009	Vol. Surrender per Agent Rqst
SAFECO Insurance Company of Illinois	CAS/Inactive	09-27-2008	11-20-2009	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-27-2008	11-20-2009	Vol. Surrender per Agent Rqst
Safeguard Insurance Company	CAS/Inactive	10-04-2000	02-10-2005	Canceled
	PROP/Inactive	10-04-2000	02-10-2005	Canceled
Seaboard Surety Company	CAS/Inactive	08-09-1996	12-05-2005	Inadequate Production
	PROP/Inactive	08-09-1996	12-05-2005	Inadequate Production
Security Insurance Company of Hartford	CAS/Inactive	03-11-2005	08-28-2006	Vol. Surrender per Agent Rqst
	PROP/Inactive	03-11-2005	08-28-2006	Vol. Surrender per Agent Rqst
Sheboygan Falls Insurance Company	CAS/Active	11-09-2012		
	PROP/Active	11-09-2012		
SOCIETY INSURANCE, a mutual company	CAS/Active	01-15-2010		
	CAS/Inactive	07-08-2005	11-14-2007	Canceled
	PROP/Active	01-15-2010		
St. Paul Fire and Casualty Insurance Company	PROP/Inactive	07-08-2005	11-14-2007	Canceled
	CAS/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
St. Paul Fire and Marine Insurance Company	PROP/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
St. Paul Fire and Marine Insurance Company	PROP/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
St. Paul Guardian Insurance Company	PROP/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
St. Paul Mercury Insurance Company	PROP/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
St. Paul Protective Insurance Company	PROP/Inactive	09-10-1996	02-09-2007	Vol. Surrender per Agent Rqst
	CAS/Inactive	11-04-1998	04-21-2003	Vol. Surrender per Agent Rqst
Statewide Insurance Company	PROP/Inactive	11-04-1998	04-21-2003	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-18-1996	04-08-2002	Canceled
	PROP/Inactive	07-18-1996	04-08-2002	Canceled

TIG Insurance Company	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
TIG Insurance Company of Texas	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
TIG Insurance Corporation of America	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
Torus National Insurance Company	CAS/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-11-2000	09-26-2003	Vol. Surrender per Agent Rqst
Transcontinental Insurance Company	CAS/Inactive	08-21-1996	01-05-2006	Canceled
	PROP/Inactive	08-21-1996	01-05-2006	Canceled
Transportation Insurance Company	CAS/Inactive	08-21-1996	01-05-2006	Canceled
	PROP/Inactive	08-21-1996	01-05-2006	Canceled
Travelers Casualty and Surety Company	CAS/Active	09-26-2007		
	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-19-1996	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Active	09-26-2007		
	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
Travelers Casualty and Surety Company of America	PROP/Inactive	07-19-1996	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Active	02-04-2008		
	CAS/Inactive	07-19-1996	11-09-2007	Canceled
	PROP/Active	02-04-2008		
Travelers Casualty Company of Connecticut	PROP/Inactive	07-19-1996	11-09-2007	Canceled
	CAS/Inactive	07-19-1996	11-20-2000	Vol. Surrender per Agent Rqst
Travelers Casualty Insurance Company of America	PROP/Inactive	07-19-1996	11-20-2000	Vol. Surrender per Agent Rqst
	CAS/Active	09-26-2007		
	CAS/Inactive	07-19-1996	11-22-2000	Vol. Surrender per Agent Rqst
	PROP/Active	09-26-2007		
	PROP/Inactive	07-19-1996	11-22-2000	Vol. Surrender per

				Agent Rqst
Travelers Commercial Insurance Company	CAS/Inactive	06-14-2001	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-19-1996	11-22-2000	Vol. Surrender per Agent Rqst
	PROP/Inactive	06-14-2001	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-19-1996	11-22-2000	Vol. Surrender per Agent Rqst
Travelers Constitution State Insurance Company	CAS/Inactive	11-24-1998	12-11-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	11-24-1998	12-11-2003	Vol. Surrender per Agent Rqst
Travelers Home and Marine Insurance Company, The	CAS/Inactive	11-29-2005	12-29-2006	Vol. Surrender per Agent Rqst
	PROP/Inactive	11-29-2005	12-29-2006	Vol. Surrender per Agent Rqst
Travelers Indemnity Company of America, The	CAS/Active	09-26-2007		
	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Active	09-26-2007		
	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
Travelers Indemnity Company of Connecticut, The	PROP/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Active	09-26-2007		
	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Active	09-26-2007		
Travelers Indemnity Company, The	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Active	09-26-2007		
	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
Travelers Indemnity Company, The	PROP/Active	09-26-2007		
	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst

	PROP/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
Travelers Property Casualty Company of America	CAS/Active	09-26-2007		
	CAS/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Active	09-26-2007		
	PROP/Inactive	01-13-2006	12-29-2006	Vol. Surrender per Agent Rqst
Travelers Property Casualty Insurance Company	PROP/Inactive	09-04-1996	11-28-2005	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-22-2005	11-28-2005	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-22-2005	11-28-2005	Vol. Surrender per Agent Rqst
Trumbull Insurance Company	CAS/Inactive	07-05-2005	10-31-2008	Canceled
	PROP/Inactive	07-05-2005	10-31-2008	Canceled
Twin City Fire Insurance Company	CAS/Inactive	04-26-2000	10-26-2009	Canceled
	PROP/Inactive	04-26-2000	10-26-2009	Canceled
United Fire & Casualty Company	CAS/Active	07-26-1996		
	PROP/Active	07-26-1996		
United Pacific Insurance Company	CAS/Inactive	08-27-1996	02-13-2001	Company Merger
	PROP/Inactive	08-27-1996	02-13-2001	Company Merger
United States Fidelity and Guaranty Company	CAS/Inactive	08-02-1996	02-09-2007	Vol. Surrender per Agent Rqst
	PROP/Inactive	08-02-1996	02-09-2007	Vol. Surrender per Agent Rqst
United States Fire Insurance Company	CAS/Inactive	12-23-1996	03-08-2004	Canceled
	PROP/Inactive	12-23-1996	03-08-2004	Canceled
United Wisconsin Insurance Company	CAS/Active	03-14-2003		
USF&G Insurance Company of Wisconsin	CAS/Inactive	08-02-1996	01-01-2001	Company Merger
	PROP/Inactive	08-02-1996	01-01-2001	Company Merger
Valiant Insurance Company	CAS/Inactive	09-09-1998	12-05-2007	Canceled
	PROP/Inactive	09-09-1998	12-05-2007	Canceled
Valley Forge Insurance Company	CAS/Inactive	08-21-1996	01-05-2006	Canceled
	PROP/Inactive	08-21-1996	01-05-2006	Canceled
Venture Insurance Company	CAS/Inactive	07-08-2005	01-04-2006	Canceled
	PROP/Inactive	07-08-2005	01-04-2006	Canceled

Vigilant Insurance Company	CAS/Active	05-12-2008			
	CAS/Inactive	09-10-1996	12-26-2006		Canceled
	PROP/Active	05-12-2008			
	PROP/Inactive	09-10-1996	12-26-2006		Canceled
Virginia Surety Company, Inc.	CAS/Inactive	01-28-1997	11-30-1998		Vol. Surrender per Agent Rqst
	PROP/Inactive	01-28-1997	11-30-1998		Vol. Surrender per Agent Rqst
Washington International Insurance Company	CAS/Active	09-07-2001			
	PROP/Active	09-07-2001			
Wausau Business Insurance Company	CAS/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	CAS/Inactive	08-23-1996	05-14-2003		Inadequate Production
	PROP/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	PROP/Inactive	08-23-1996	05-14-2003		Inadequate Production
	CAS/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	CAS/Inactive	08-23-1996	05-14-2003		Inadequate Production
Wausau General Insurance Company	PROP/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	CAS/Inactive	08-23-1996	05-14-2003		Inadequate Production
	PROP/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	PROP/Inactive	08-23-1996	05-14-2003		Inadequate Production
	CAS/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	CAS/Inactive	08-23-1996	05-14-2003		Inadequate Production
Wausau Underwriters Insurance Company	PROP/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	CAS/Inactive	08-23-1996	05-14-2003		Inadequate Production
	PROP/Inactive	07-18-2005	12-10-2007		Vol. Surrender per Agent Rqst
	PROP/Inactive	08-23-1996	05-14-2003		Inadequate Production
	CAS/Active	03-13-2008			
	CAS/Inactive	07-08-2005	10-17-2007		Canceled
West Bend Mutual Insurance Company	PROP/Active	03-13-2008			
	PROP/Inactive	07-08-2005	10-17-2007		Canceled
Western National Mutual Insurance Company	CAS/Active	08-01-2013			
	PROP/Active	08-01-2013			
Western Surety Company	CAS/Active	07-21-2003			
Zurich American Insurance Company	CAS/Active	06-08-1999			
	PROP/Active	06-08-1999			
Zurich American Insurance Company of Illinois	CAS/Active	06-08-1999			
	PROP/Active	06-08-1999			

- * 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.

\$81,462.00
FILE

BID OF JOE DANIELS CONSTRUCTION CO., INC.

2013

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT

CONTRACT NO. 7134

IN

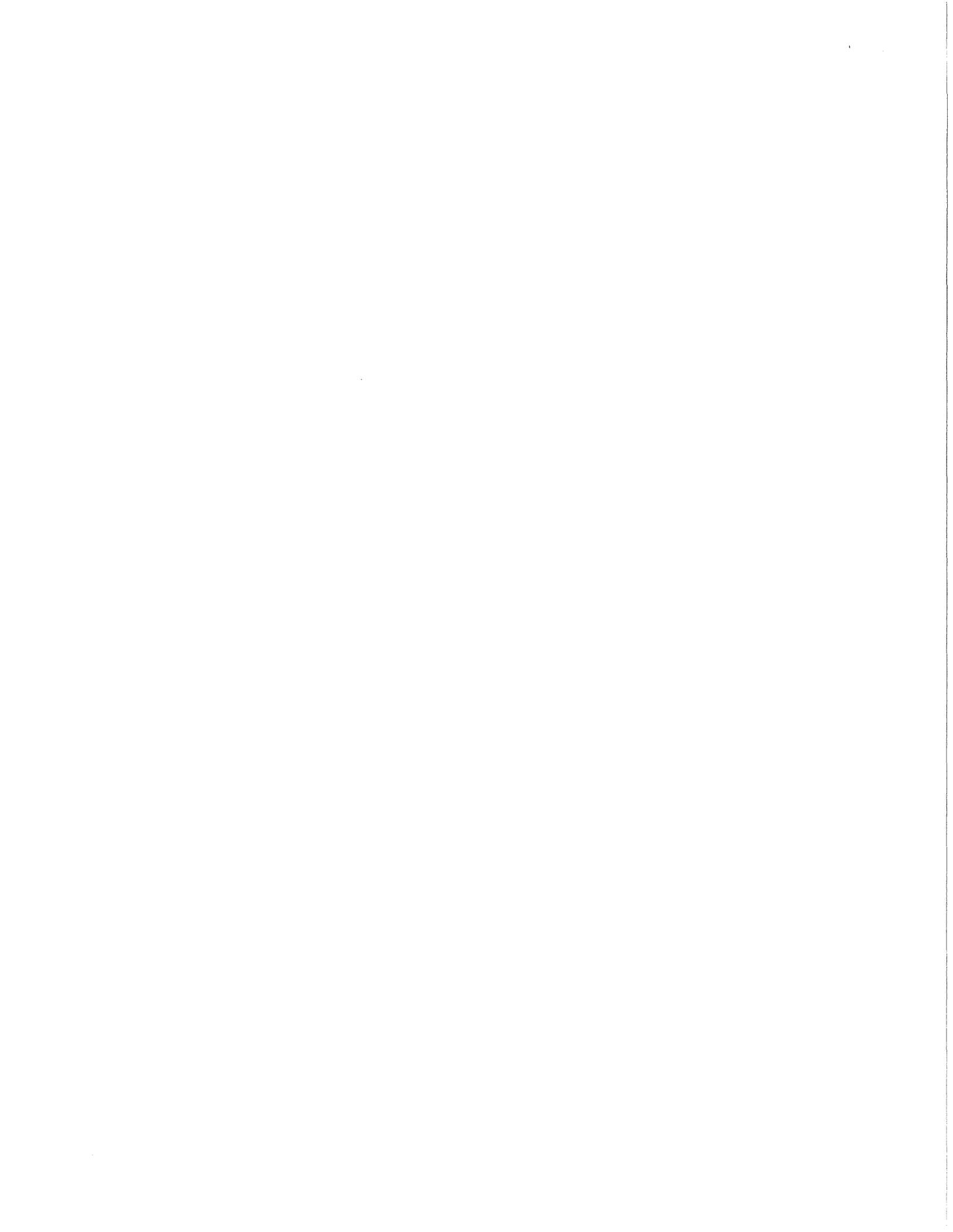
MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON SEPTEMBER 17, 2013

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

www.cityofmadison.com/business/pw

<https://bidexpress.com/login>



CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT
CONTRACT NO. 7134

INDEX

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS.....A-1
SECTION B: PROPOSAL SECTION.....B-1
SECTION C: SMALL BUSINESS ENTERPRISE (NOT APPLICABLE) C-1
SECTION D: SPECIAL PROVISIONS..... D-1
SECTION E: BIDDER'S ACKNOWLEDGEMENTE-1
SECTION F: DISCLOSURE OF OWNERSHIP & BEST VALUE CONTRACTING..... F-1
SECTION G: BID BOND..... G-1
SECTION H: AGREEMENT..... H-1
SECTION I: PAYMENT AND PERFORMANCE BOND I-1
SECTION J: PREVAILING WAGE RATES..... J-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 AND INSTRUCTIONS TO BIDDERS

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

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT
CONTRACT NO.:	7134
BID BOND	5%
PREQUALIFICATION APPLICATION DUE (1:00 P.M)	AUGUST 16, 2013
BID SUBMISSION (1:00 P.M.)	AUGUST 23, 2013
BID OPEN (1:30 P.M.)	AUGUST 23, 2013
PUBLISHED IN WSJ	8/9/13 & 8/16/13

PREQUALIFICATION APPLICATION: Forms are available at the same location or on our website, www.cityofmadison.com/business/pw/forms.cfm. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

Plans and Specifications are also available at 1600 Emil St., Madison, WI, 53713; (608) 267-1197.

STANDARD SPECIFICATIONS

The City of Madison's 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, www.cityofmadison.com/Business/PW/specs.cfm.

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)l. of the 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 General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

SECTION 102.4 PROPOSAL

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 thereof 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 or submitted electronically through Bid Express (www.bidexpress.com). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

The Bidder shall execute the Disclosure of Ownership form. REFER TO SECTION F.

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, 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. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

PREVAILING WAGE RATES

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

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. Flat Work
221 Concrete Bases and Other Concrete Work
225 Dredging
230 Fencing
235 Fiber Optic Cable/Conduit Installation
240 Grading and Earthwork
241 Horizontal Saw Cutting of Sidewalk
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/Install
265 Retaining Walls, Precast Modular Units
270 Retaining Walls, Reinforced Concrete
275 Sanitary, Storm Sewer and Water Main Construction

- 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
320 Traffic Signals
325 Traffic Signing & Marking
332 Tree pruning/removal
333 Tree, pesticide treatment of
335 Trucking
340 Utility Transmission Lines including Natural Gas, Electrical & Communications
399 Other _____

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/Tuck pointing
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: www.dhs.wisconsin.gov/Asbestos/Cert. 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 _____
9 Other _____

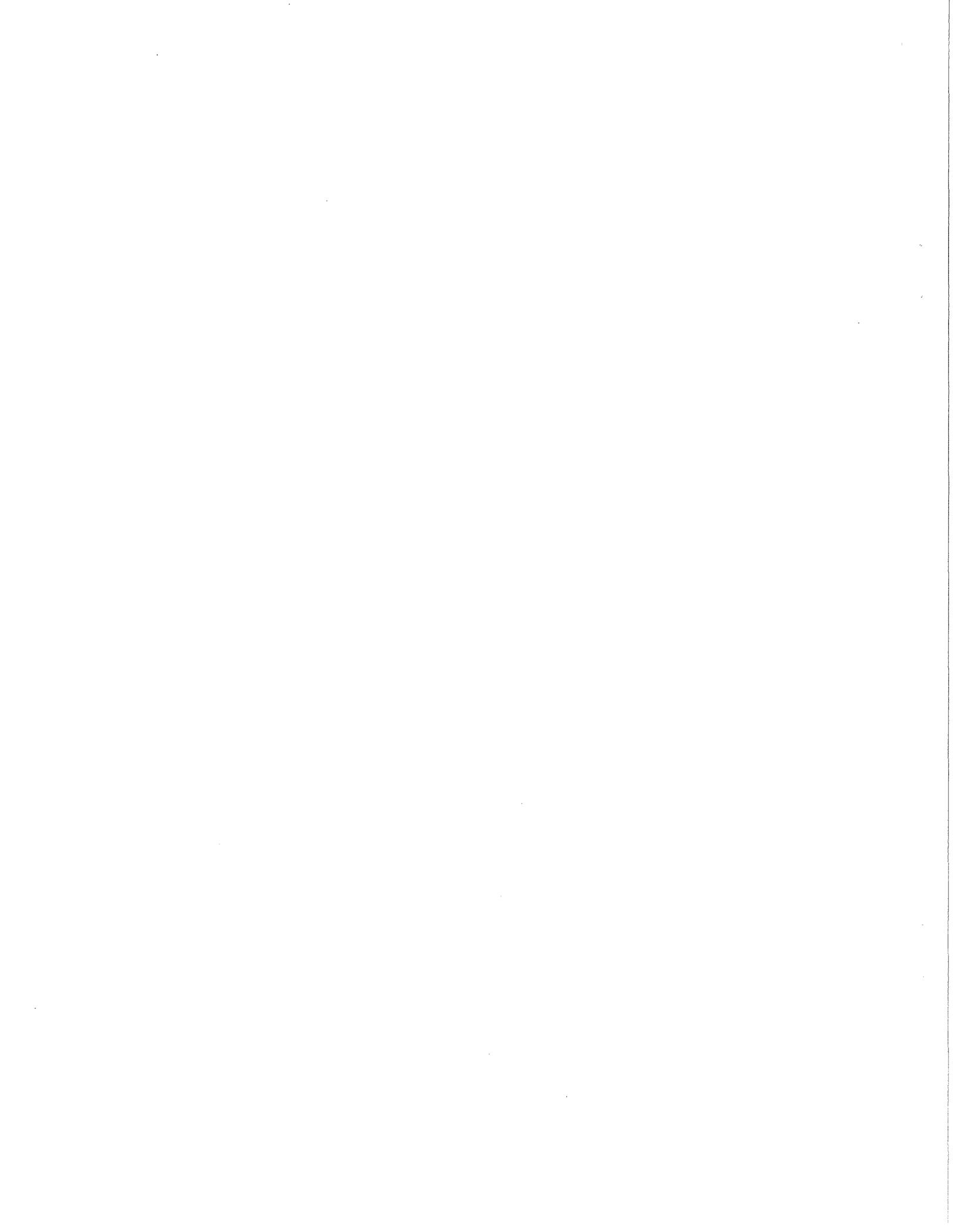
SECTION B: PROPOSAL

Please refer to the
Bid Express Website
at <https://bidexpress.com>
look up contract number
and go to
Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).



SECTION C: SMALL BUSINESS ENTERPRISE

**Instructions to Bidders
City of Madison
SBE Program Information**

SBE NOT APPLICABLE

SECTION D: SPECIAL PROVISIONS

CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT CONTRACT NO. 7134

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 102.4 PROPOSALS

This bid consists of a BASE BID (Bid Item 90001) and two (2) ALTERNATE BID ITEMS (Bid Items 90002 & 90003). The Contractor shall comply with these instructions when filling out the proposal form:

1. The bidder must completely fill in the LUMP SUM BASE BID and the LUMP SUM for each of the two (2) ALTERNATE BID items.

The contract shall be awarded to the lowest bidding contractor in the following manner:

1. The City will establish a Construction Budget Dollar Value for the overall project.
2. The City will award the contract based on the sub totals of the base bid plus alternates in the order presented on the proposal form until the sub total exceeds the predetermined Construction Budget Dollar Value.

The City shall have the right to proceed or not proceed with any alternate regardless of how the bid was awarded. The City shall have the right to reject all bids regardless of the value of the bids submitted.

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. Records shall include employee demographics or contractor can submit a one-time report of all employee demographics that can be matched up with weekly payrolls. Reports shall only include last four social security digits. 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 re-let 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 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 107.4(I): INSURANCE FOR THE CONSTRUCTION OF BUILDINGS

The City will effect and maintain, Builder's Risk Insurance on a replacement cost basis in an amount equal to the estimated project cost. Coverage includes the building as well as materials stored on the site to be incorporated in the building, including form work in place, form lumber on site, temporary structures, equipment and supplies incidental to the construction of the building. The City's Builders Risk coverage is written on a per building basis and contains a \$25,000 per occurrence deductible. If a loss under the City's Builders Risk policy is caused by the negligence of the Contractor or its Subcontractor(s), the Contractor will be responsible for paying the City's \$25,000 deductible. The City Engineer has the authority to withhold such deductible from payments due to Contractor. In addition, City Engineer, in his/her sole authority, will determine whether the Contractor was negligent in causing the loss and therefore is responsible for the City's deductible.

The insured loss, if any, is to be adjusted with and payable to the City.

COMPLETION DATE

Construction work must begin within seven (7) calendar days after the date appearing on the mailed notice to do so and shall be carried on at a rate so as to secure full completion within SEVENTY-SEVEN (77) CALENDAR DAYS, the rate of progress and the time of completion being essential conditions of the Agreement.

The Madison Police Department desires to have this project completed by December 31, 2013.

PRODUCT OPTIONS AND SUBSTITUTIONS

Materials and equipment for this project shall be from items specified or items approved as equal, in writing, by the Architect at least eight (8) calendar days prior to bid receipt date.

Request for approval of materials or items of equipment as equal to that specified shall be submitted in writing from the Contractor accompanied by data adequate to establish such equality and by citation of at least two (2) situations where such materials and/or items of equipment have been successfully used including references.

The Architect's decision as to quality or relative merit of item or substitution shall be final.

GENERAL INFORMATION

Obtain and pay for permits and fees required for this project.

Obtain and pay for construction sets of plans and specifications required for this project.

Prior to bidding, visit site to become familiar with and verify existing job conditions.

Do not scale drawings for exact dimensions.

Work shall comply with applicable codes and regulations.

Schedule on-site work with Sue Fichtel, Madison Police Department at (608)266-4950, at least 48 hours in advance.

The Contractor shall be responsible for restoring, repairing and/or replacing any materials, equipment or site damage caused by the work of this project to its original finish and/or condition.

Work shall be performed by mechanics skilled in the area of work included in this contract; shall be of professional quality; and shall be completed according to the best practice of the trade.

Workers shall be knowledgeable with regard to products used and shall take appropriate precautions required to safeguard health and safety.

The intent of the plans and specifications is to provide for the construction, execution and completion of a complete work or improvements, which the contractor undertakes to do in full compliance with the plans, specifications, and contract.

The Contractor shall perform all items of work covered and stipulated in the proposal and perform altered and extra work necessary to the prosecution and completion of the work.

The Contractor shall take no advantage of any apparent error or omission in the plans or specifications, and the Owner shall be permitted to make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications.

Conditions of the Contract and Division I Specification Sections are applicable to all Divisions of the Specifications and Drawings.

QUESTIONS

Questions pertaining to this project shall be directed to:

James Whitney, A.I.A.
City of Madison
Dept. of Public Works, Engineering Division
City-County Building, Room 115
210 Martin Luther King Jr. Blvd.
Madison, WI 53703
(608) 266-4563

OTHER CONTACTS

Design Architect: Tyler Smith, A.I.A.
Destree Architects
222 W. Washington Ave., Suite 310
Madison, Wisconsin 53703
Phone: (608) 268-1499

Dane County Facilities Management
210 Martin Luther King Jr. Blvd., Room GA-8
Madison, Wisconsin 53703
Phone: (608) 266-4350

Sue Fichtel, Records Section Manager
Madison Police Department
211 S. Carroll Street
Madison, WI 53703
(608) 266-4950

SUMMARY OF WORK

City-County Building GR-10 Reception Windows Replacement:

The project is to replace the Madison Police Department reception windows in room GR-10 with level 3 bullet resistant glass, install anti-ricochet deal trays, install level 3 bullet resistant wall panels below the countertop and up the wall on each side of the windows, and replace doors with level 3 bullet resistant doors.

CUTTING AND PATCHING

Definition: Cutting and patching shall refer to cutting into existing construction as required for installation and/or performance of work and patching of surfaces to restore them to their original condition.

Prior to cutting, inspect surfaces and conditions beneath work to be cut for unsafe or otherwise unsatisfactory conditions and inform Architect of such conditions prior to proceeding with work.

Perform cutting and patching by methods which will prevent damage to other portions of work and will provide proper surfaces to receive new work, installations and/or repair.

Do not cut and patch structural members or work in a manner which will damage or weaken structural integrity. Obtain written approval from Architect prior to cutting and patching of structural members and work.

Work which is exposed to view shall be cut and patched in a manner which does not noticeably reduce aesthetic and similar qualities as determined by Architect.

Cutting and patching shall be performed in a manner which does not reduce life, decrease performance or increase maintenance of components and/or elements of work.

The Architect's right to order removal and replacement of unsatisfactory cut and patch work shall not be waived by approval to proceed with cut and patch work.

Materials for patching shall be identical to existing materials.

Provide temporary support of work as required.

SPECIAL PROJECT REQUIREMENTS

All work must be performed during the hours of 6:30 a.m. and 3:00 p.m., Monday through Friday.

The building will continue to be used during this project.

The Contractor will need to phase the installation work such that several reception windows are open to the public at any given time. Refer to construction drawings for sequencing.

All work will be performed under full supervision of the Madison Police Department.

Contractor vehicle parking and storage of materials is limited and may not be available within the City-County Building. Contact Dane County Facilities Management to coordinate parking and storage at 266-4350.

SUBMITTALS

SHOP DRAWINGS

Submit shop drawings and product data, drawings, manufacturer specifications, installation instructions, maintenance instructions and general recommendations to the Architect for review. Include data substantiating that materials comply with the specifications.

Submit additional information which may be required under separate sections of these specifications.

The Contractor shall review all submittals and shop drawings for conformity with the contract documents and shall stamp and note their review and approval by initialing document prior to submitting.

TEMPORARY FACILITIES

TEMPORARY FIELD OFFICE

A temporary field office is not required for this project.

TEMPORARY TELEPHONE

If needed the Contractor shall pay installation and monthly charges for phone service. Long distance calls shall be paid for by party making call.

TEMPORARY TOILETS

The Contractor shall make arrangements with Dane County Facilities Management for use of toilet facilities within the existing building.

TEMPORARY WATER

Water required for performance of work shall be obtained from hose bibs or water faucets at the existing building. The City shall pay for water used.

TEMPORARY HEATING

The existing heating and cooling plant shall be used.

Heating and cooling will be required at all times for occupied areas of building.

At time of completion, the Contractor shall thoroughly check, service, adjust and restore to original condition, existing heating devices used for heating during construction operations. Filters of renewable type shall be washed, oiled or recharged, or if damaged, shall be replaced. Disposable type filters shall be replaced with new filters. The Contractor shall clean interior of air handling units and duct work prior to acceptance of work.

TEMPORARY LIGHT AND POWER

Existing light and power will be available within the work area.

The Contractor shall maintain electrical service to occupied areas of existing building at all times.

Contractors shall furnish lamps and extension cords required for their work.

The City shall pay for electrical energy used by contractors for temporary light and power.

TEMPORARY CONSTRUCTION

Provide and maintain temporary floor and equipment supports, ramps, bridges, etc., as required to permit full and safe use of building during construction and remove such temporary work as soon as possible.

Provide and set temporary barriers, adjacent to work areas so as to clearly mark and isolate areas under construction, as required by Madison Police Department, and remove such barriers as soon as possible.

Provide and set temporary dust enclosures, adjacent to work areas so as to assure no dust escapes the immediate area under construction.

All fabric or plastic films used for temporary enclosures shall be certified as conforming to the requirements of Test Method #2 contained in NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

MATERIAL AND EQUIPMENT

TRANSPORTATION AND PROTECTION

Deliver materials to job site and store in a safe area, out of the way of traffic and stored up off ground surface.

STORAGE AND PROTECTION

Protect materials before, during and after delivery to job site. The contractor shall be responsible for damage to construction materials prior to final acceptance of completed contract.

CLEANING

RELATED WORK

Cleaning required for specific trade or work is specified in sections pertaining to that trade or work.

MATERIALS

Use only cleaning materials recommended and approved by manufacturer for surface to be cleaned.

Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

DURING CONSTRUCTION

At all times keep premises free from accumulations of waste materials or rubbish caused by work for this project. Miscellaneous waste and debris shall be removed from premises daily. Construction areas shall be broom cleaned each work day.

Lower waste material in controlled manner. Do not drop or throw material from heights.

Schedule cleaning operations and provide protection to prevent damage to finish surfaces.

Removed or unused materials and waste shall be taken outside work area and disposed of or stored, in places designated by Monona Terrace, immediately upon removal or demolition. Containers for waste disposal shall be supplied by contractor. Use of existing dumpsters and on site dumping will not be permitted.

FINISH CLEANING

At project completion, clean visible soiling from work, remove temporary labels and leave work clean and ready for Madison Police Department use and occupancy.

At completion of contract work, thoroughly police project grounds and ensure that construction debris has been removed.

CITY-COUNTY BUILDING ROOM GR10
RECEPTION WINDOWS REPLACEMENT
CITY OF MADISON CONTRACT: 7134

TECHNICAL SPECIFICATIONS
08.02.13

Prepared by
Destree Design Architects, Inc.
222 West Washington Ave. #310
Madison, WI 53703
608.268.1499

SECTION 00 01 00 – TECHNICAL SECTIONS - TABLE OF CONTENTS

DIVISION 1 – GENERAL REQUIREMENTS

01 00 02 GENERAL REQUIREMENTS

DIVISION 2 - SITE CONSTRUCTION

02 41 19 SELECTIVE DEMOLITION, ALTERATION, AND PATCHING

DIVISION 6 - WOOD AND PLASTICS

06 01 10 ROUGH CARPENTRY

06 01 20 FINISH CARPENTRY

06 40 00 ARCHITECTURAL WOODWORK

DIVISION 8 - DOORS AND WINDOWS

08 34 53 BULLET RESISTANT DOORS AND FRAMES

08 56 53 BULLET RESISTANT TRANSACTION WINDOWS

08 81 00 GLAZING

DIVISION 9 - FINISHES

09 21 16 GYPSUM BOARD ASSEMBLIES

09 91 23 INTERIOR PAINTING

DIVISION 13 – SPECIAL CONSTRUCTION

13 07 00 BULLET RESISTANT ARMOR PANELS

SECTION 010002 – GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Replace the Madison Police Department reception windows in room GR-10 with level 3 bullet resistant glass, install anti-ricochet deal trays, install level 3 bullet resistant wall panels below the countertop and up the wall on each side of the windows, and replace doors with level 3 bullet resistant doors.

1.2 CONTACTS

- A. The City's designee for architectural and engineering is: Tyler Smith
Company: Destree Design Architects
Address: 222 w Washington Avenue, Suite 310
Phone: 608-268-1499
Email: Tyler@destreearchitects.com
- B. The City's designee for project management: James Whitney
Company: City of Madison
Address: Room 115, 210 Martin Luther King Jr. Blvd.
Phone: 608-266-4563
Email: jwhitney@cityofmadison.com

1.3 GENERAL

- A. All articles in these General Requirements are applicable to all Divisions and Sections apply to each Division of these Specifications as fully as if repeated within that Division. The Conditions of the Contract, General and supplementary General Conditions, and these General Requirements shall apply to the Contractor and engaged in his work. Items listed under Scope of Work for each Division of the Specifications are not necessarily all inclusive.
- B. Portions of these specifications are of the abbreviated, simplified type and may include incomplete sentences. Omissions of words or phrases such as "the Contractor shall", "in conformity with", "shall be", "as noted on the drawings", "in accordance with details", are intentional. Omitted words or phrases shall be supplied by inference in the same manner, as they are when a note occurs on the drawings. Such terms as approved, reviewed, equal, as directed, as required, as permitted, acceptable, satisfactory mean by or to the City Engineer or designee.
- C. These specifications and drawings are intended to include everything necessary to perform the entire work properly. Every item necessarily required might not be specifically mentioned or shown. Unless expressly stated, all systems and equipment shall be complete and operable. The words "furnish", "install", and "provide" shall mean the same in a sense that the Contractor shall furnish and install all the necessary materials, apparatus, and devices to complete the equipment and systems installation herein specified, except such parts as are specifically exempted herein. If an item is either called for in the specifications or shown on the plans, it shall be considered sufficient for the inclusion of said item in this contract. If a conflict exists within the Specifications or exists within the Drawings, the Contractor shall furnish the item, system, or workmanship, which is the highest quality, largest, largest quantity or most closely fits the City's intent. Materials and labor shall be new (unless noted or stated otherwise), first class, and workmanlike, and shall be subject at all times to the City's or designee's inspections, tests and approval from the commencement until the acceptance of the completed work. Whenever a particular

manufacturer's product is named, it is intended to establish a level of quality and performance requirements unless more explicit restrictions are stated to apply. It must be understood that the details and drawings are diagrammatic. The Contractor shall verify all dimensions at the site and be responsible for their accuracy. If items are too large to fit into existing space Contractor shall provide smaller model of same type upon approval by The City at no cost to the City. All sizes as given are minimum except as noted. Prior to bidding bidder must visit site to become familiar and verify existing conditions. Failure to do so does not relieve the bidder from the responsibility to verify existing conditions, to point out errors in drawings or specifications or code violations.

- D. Bidders shall bring inadequacies, omissions or conflicts to the City's attention at least five (5) days before the date set for bid opening. Prompt clarification will be supplied to all bidders of record by addendum. Failure to request clarification or interpretation of the drawings and specifications will not relieve the successful Bidder of responsibility. Signing of the contract will be considered as implicitly denoting that the Contractor has thorough understanding of the scope of work and comprehension of the contract documents. The City is not responsible for verbal instructions.
- E. Information pertaining to existing conditions that are described in the specifications or appear on the drawings is based on available records. While such data has been collected with reasonable care, there is no expressed or implied guarantee that conditions so indicated are entirely representative of those actually existing. This information is provided to inform the Contractor of known, existing conditions so that due diligence is taken by the Contractor to avoid damage. Where site observation or documents indicate existing underground utilities/services in close proximity (within four feet horizontally and/or four feet vertically) to necessary new construction work, the Contractor shall be responsible to test, probe or otherwise determine exact locations so as to prevent damage to such utilities/services.
- F. The Contractor resumes responsibility for all work specified in this contract except for work explicitly noted as be done by the City or a Contractor separately hired by the City. The Contractor shall immediately inform the City of the name of the person(s) designated as Superintendent representing the Contractor at the site. The Contractor shall take complete charge of the work under this contract and coordinate the work of all trades on the project. All Contractors shall work in cooperation with the Contractor and with each other, and fit their work into the structure as job conditions may demand. The City shall make all final decisions as to the right-of-way and run of pipe, ducts, etc., at prearranged meetings with responsible representatives of the Contractors involved. Contractor(s) shall coordinate the work with adjacent work with other Contractors prior to installation and shall cooperate with all other trades to facilitate the general progress of the work. The Contractor shall coordinate and schedule the work of all its subcontractors, and shall furnish all information required by them for proper scheduling and execution of the work. In the same manner, the Contractor shall coordinate the work with that of the City, and any other Contractor operating in the area, including reasonable adjustments of schedule in order to allow other Contractors or the City to do their work. Coordinate all work with other Contractors prior to installation. Any installed work that is not coordinated and that interferes with other Contractor's work shall be removed or relocated at the installing Contractor's expense.
- G. Each trade shall afford all other trades every reasonable opportunity for the installation of their work and for the storage of their material. In no case will the Contractor(s) be permitted to exclude from the premises or work, any other Contractor or employees thereof, or interfere with any other Contractor in the executing or installation of their work. In case it is indicated which trade is responsible for which work, this is meant as a suggestion and it is the Contractor's responsibility in its contracts with subcontractors to clarify who ultimately will do the work. If conflicts arise between the Contractor and subcontractor about who is responsible for which work to be done it is the Contractor's responsibility to make sure the work gets done in time even if the dispute between Contractor and subcontractor gets settled later.
- H. The City Engineer shall have the right to make final and binding decisions on disputes between the Contractor and any other subcontractor operating in the area regarding: (a) access to the site with work force, equipment, and/or materials to their work area or (b) their adjacent work areas.

- I. The Contractor shall cooperate with other trades and City personnel in locating work in a proper manner. Should it be necessary to raise or lower or move longitudinally any part of the electrical or piping or ducting work to better fit the general installation, such work shall be done at no extra cost to the City, provided such decision is reached prior to actual installation. The Contractor shall check location of electrical outlets with respect to other installations before installing.
- J. The area to be set aside for the work under this contract is shown on the drawings, and the Contractor shall confine the construction to the immediate area within the construction limits. The Contractor shall immediately upon entering the site for purpose of beginning work, locate general reference points and take such action as is necessary to prevent their destruction. The Contractor shall layout its work and be responsible for all lines, elevations and measurements of the building and other work executed under its Contract. The Contractor must exercise proper precaution to verify dimensions on the drawings before laying out work and will be held responsible for any error resulting from failure to exercise such precaution. The Contractor shall verify grades, lines, levels, locations, and dimensions as shown on drawings and report any errors or inconsistencies to the City before commencing work. Starting of work by the Contractor shall imply acceptance of existing conditions. Confine all operations, equipment, apparatus and storage of materials, to the immediate area of work to the greatest possible extent. Contractor shall ascertain, observe and comply with all rules and regulations in effect on the project site, including but not limited to parking and traffic regulations, use of walks, security restrictions and hours of allowable ingress and egress. Any special traffic control during construction involving lane closures shall be in accordance with the federal standard, Manual of Uniform Traffic Control Devices.

1.4 GUARANTEES

- A. All work, material and equipment is guaranteed by the Contractor to be free of faults for at least one year or longer if specified elsewhere. This year begins from the date of final acceptance from the City, which is stated in the Standard Specifications under Section 105.16. The Contractor agrees to return to the project and commence work as directed upon notification by the City and will furnish at his own expense all necessary labor and material to make proper repairs or corrections made necessary by defective material or inferior workmanship furnished or performed under this contract. If a subcontractor is not complying, the Contractor is held responsible.
- B. All corrections and repairs are to be made no more than 30 days after notification of the Contractor for equipment and material that is not critical to the operation of the building. Critical equipment and material, including but not limited to HVAC, roofing, electrical, elevator, shall be repaired or brought into temporary and safe working condition in less than 7 days and temporary alternatives have to be provided by the Contractor. If Contractor fails to do so the City reserves the right to perform the work himself or subcontract a different Contractor and charge the Contractor the full cost of the repair and correction and cost of any material, rental fee, labor and equipment to provide temporary relief and protection to enable safe operation of the building.

1.5 DEFINITIONS AND STATUS OF INDIVIDUALS

- A. Owner: synonym for The City of Madison. Other synonyms are "City", "City of Madison" and "Department"
- B. Contractor: Shall mean the person or firm responsible for the execution of this contract, or any portion thereof. This shall include the General or Prime Subcontractor, all Sub Subcontractors and any suppliers. Subcontractor usually refers to the particular contractor concerned with the Section in which the term is found, but this in no way relieves the General contractor of its sole responsibility for completing the entire work of this contract. The contractor shall complete the work in accordance with the contract documents, approved submittals that comply with the contract documents, and any clarifications or instructions issued by the Project Manager. The contractor shall not be relieved of any responsibility to

comply with such requirements by the activities of the Architect-Engineer or the Project Manager. The terms contractor and subcontractor may be interchangeable.

- C. Architect-Engineer or A/E: is the person or firm designated as the responsible design professional. The A/E shall interpret and clarify the intent of the construction Subcontract Documents, will work with the owner and project manager in determining the acceptability of workmanship, materials and the progress of the work and entitlement to payment. The A/E will review proposed changes, substitutions, shop drawings and schedules submitted by the Subcontractor for approval as required by the Subcontract Documents. The Architect-Engineer shall have access to the work at all times and the authority to recommend that the owner not accept any work or materials deemed not to conform to the requirements of the contract.
- D. Project Representative: During the Construction Phase, all submittals and communications with the A/E shall be through the Owner's "Project Representative." The Project Representative will administer the technical requirements of the contract and will coordinate the inspection of the work. The A/E and City/Owner-A/E will determine all professional design responsibility matters. Other synonyms are "Project Manager" and "Manager" and "City Representative."

1.6 SUSTAINABLE CONSTRUCTION METHODS AND MATERIALS

- A. All construction methods and materials shall meet these requirements unless specified differently elsewhere. Contractor is to provide all documentations, certifications and other material necessary to prove compliance to the City and third party certifiers.
- B. Construction Waste Management:
 - 1. Recycle all recyclable material. This includes any material for which there is a recycling facility in Wisconsin.
 - 2. Separate all waste material in plastic, metal, paper, acoustical tile, brick, concrete, clean wood, glass, gypsum drywall, carpet and insulation and provide designated on-site collection areas.
 - 3. Keep track of volume and weight of each material and track if it was recycled or disposed otherwise.
 - 4. Keep track of volume and weight of donated material and site reused on site
 - 5. Haul all recyclable material to recycling facility if one is available in the county at no cost to the City.
 - 6. It is permissible to separate waste off-site by specialized recycling contractor. This contractor needs to provide proof of recycling and needs to be WASTECAP certified as "Accredited Professional in Construction and Demolition Debris Recycling".
- C. Indoor Air Quality:
 - 1. During construction the recommended control measures of the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) IAQ guidelines for occupied buildings under construction, (1995, chapter 3) must be met or exceeded.
 - 2. Stored on-site or installed absorptive material must be protected from moisture damage.
 - 3. In case permanently installed air handlers are used for ventilation, filtration media with a Minimum efficiency Reporting Value (MERV) of 8 shall be used at each return air grille, as determined by ASHRAE 52.2-1999. Contractor shall replace all filtration media immediately prior occupancy.
 - 4. All to be installed ductwork, air handlers and other equipment later connected to the indoor air path are to be protected from dirt and debris.

1.7 DOCUMENTS

- A. All electronic files used or created for this project become property of the City. All files have to be submitted to the City upon request and once each phase (design, construction) is completed. Only Microsoft Office, PDF, and AutoCAD version 2008 and lower documents are acceptable. All documents that once existed in Microsoft or AutoCAD version must be submitted in such. AutoCAD files have to be submitted in original drawing form for further use in future projects. Sheet-set files alone will not be sufficient. All AutoCAD files must be submitted as PDF in addition. The Contractor can use CAD files and other files necessary for this project upon request.
- B. The City or designee will provide the Contractor with a suitable set of Contract Documents on which daily records of changes and deviations from contract shall be recorded. Dimensions and elevations on the record drawings shall locate all buried or concealed piping, conduit, or similar items.
- C. The daily record of changes shall be the responsibility of Contractor's field superintendent. No arbitrary mark-ups will be permitted. During the first week of each month, the Contractor shall present, at the project site, the job copy showing variations and changes to date to the City for review.
- D. During first week of each month, the Contractor shall present at the project site all changes to architectural/engineering plans for review. At completion of the project, the Contractor shall submit the marked-up record drawings to the City prior to final payment.
- E. Contractor shall provide list with all equipment installed. This list shall contain, but not limited to, type, make and special product key and number. For grant purposes the contractor may have to provide detailed information about equipment installed and labor provided to third party institutions, such as Focus on Energy.

1.8 QUALITY ASSURANCE

- A. Any installed material not meeting the specification requirements must be replaced with material that meets these specifications without additional cost to the City.
- B. All products and materials used are to be new, undamaged, clean and in good condition. Existing products and materials are not to be reused unless specifically indicated.
- C. Where equipment or accessories are used which differ in arrangement, configuration, dimensions, ratings, or engineering parameters from those indicated on the contract documents, the Contractor is responsible for all costs involved in integrating the equipment or accessories into the system and for obtaining the performance from the system into which these items are placed. This may include changes found necessary during the testing, adjusting, and balancing phase of the project.
- D. Welding procedures, welders, and welding operators for all building service piping to be in accordance with certified welding procedures of the National Certified Pipe Welding Bureau and Section 927.5 of ASME B31.9 Building Services Piping or AWS 10.9 Qualification of Welding Procedures and Welders for Piping and Tubing. Before any metallic welding is performed, Contractor to submit his Standard Welding Procedure Specification together with the Procedure Qualification Record as required by Section 927.6 of ASME B31.9 Building Services Piping. Before any metallic welding is performed, Contractor to submit his Standard Welding Procedure Specification together with the Procedure Qualification Record as required by Section IX of the ASME Boiler and Pressure Vessel Code and/or the National Certified Pipe Welding Bureau. Before any polyethylene fusion welding is performed, Contractor to submit certification that the welders to be used on this project have successfully demonstrated proper welding procedures in accordance with the Code of Federal Regulations, Title 49, Part 192, Section 192.285.
- E. Contractor shall assume the responsibility for the protection of all finished construction under the Contract and shall repair and restore any and all damage of finished work to its original state. Wheeling of any loads over any type of floor, either with or without plank protection, will be permitted only in

rubber-tired wheelbarrows, buggies, trucks or dollies. Where structural concrete is also the finished surface, care must be taken to avoid marking or damaging those surfaces. All structures and equipment shall be constructed, installed and operated with guards, controls and other devices in place.

- F. Contractor shall obtain complete data at the site and inspect surfaces that are to receive the Work before proceeding with fabricating, assembling, fitting or erecting any work under this contract. Contractor shall notify the City in writing in case of discrepancies between existing work and drawings, and of any defects in such surfaces that are to receive the Contractor's work. The City will evaluate the notice and direct what remedial action will be taken.
- G. Starting of work implies acceptance of existing work or the work of others. Removal and replacement of work applied to defective surfaces, in order to correct defects, shall be done at the expense of the Contractor who applied work to defective surfaces.
- H. The Contractor shall:
 - 1. Provide, erect and maintain all required planking, barricades, guard rails, temporary walkways, etc., of sufficient size and strength necessary for protection of stored material and equipment; paved surfaces, walks, curbs, gutters and drives; streets adjacent to or within project area; adjoining property and all project work to prevent accidents to the public and the workmen at the job site.
 - 2. Take all necessary precautions to protect the City's property as well as adjacent property, including trees, shrubs, buildings, sanitary and storm sewers, water piping, gas piping, electric conduit or cable, etc., from any and all damage which may result due to work on this project.
 - 3. Repair any work, damaged by failure to provide proper and adequate protection, to its original state to the satisfaction of the City or remove and replace with new work at the Contractor's expense.
- I. The contractor shall be fully responsible for inspecting the work of its suppliers, and subcontractors to assure that the work complies with the standards for materials and workmanship required by the contract documents.
- J. The Contractor shall:
 - 1. Monitor quality control over subcontractors, suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of the quality specified in the contract documents.
 - 2. Comply fully with manufacturer's instructions, including each step in sequence.
 - 3. Request clarification from the City before proceeding with work when manufacturers' instructions or reference standards conflict with Subcontract Documents.
 - 4. Comply with specified standards as a minimum quality for the work except when more stringent tolerances, codes, or manufactures instructions require more precise workmanship.
 - 5. Ensure that work is performed by persons specializing in the specific trade and class of work required, and qualified to produce workmanship of specified quality.
 - 6. Secure products in place with positive anchorage devices designed and sized to withstand seismic, static and dynamic loading, vibration, physical distortion or disfigurement.
- K. If reference standards or manufacturers' instructions contain provisions that would alter or are at variance with relationships between the parties to the contract set forth in the contract Documents, the provisions in the Contract Documents shall take precedence.
- L. When required by individual Specification sections, Contractor shall provide the following services from a manufacturer's representative:
 - 1. Review of Specifications and design and concurrence or suggestions for modification.
 - 2. Site observation of conditions of use and substrate.
 - 3. Observation of the installation work in progress and on completion.
 - 4. Start up, testing, and adjustment of equipment.
 - 5. Instruction to the City in operation and maintenance.

- 6. Provide written signed report by manufacturer's representative documenting services provided and any comments or recommendations.
- M. The work will be inspected by City inspectors and/or independent inspection service personnel under coordination of the City. All work is subject to inspection and shall remain accessible and exposed until it has been inspected by the City. Any work covered up or made inaccessible before such inspection shall be uncovered and made accessible without additional expense to the City. The City can request inspection of delivered material to confirm meeting of standards and specifications. An installation under supervision of the City can be requested to check proper installation. Contractor is to grant access to all material and finished and unfinished work at any time upon request. At least 3 business days notice has to be given to the City prior to arrival of material and equipment to be inspected. This includes concrete, which will be sampled and tested by the City.
- N. Inspection or testing performed by the City Engineer or his designee shall not relieve the Contractor from responsibility for performing his own quality control and for complying with the requirements of the contract Documents. The City will not be responsible for the Contractor's failure to carry out work in accordance with the contract Documents.
- O. Cooperate and arrange meetings with City or designee (Cx). Fill out and submit all documents required by Cx. Commissioning checklists need to be filled out truthfully at the time indicated. This includes but is not limited to delivery checklist (at time of delivery), installation checklist (at time of installation) and start up checklist (at time of startup).

1.9 CODES AND PERMITS

- A. Applicable provisions of Public Law, the Constitution and Laws and Statutes of the State of Wisconsin and the codes and regulations of the Department of Energy are hereby referred to and made a part of this contract and all work performed shall be in accordance with such laws, regulations and the latest edition or supplement or amendment thereto in effect at the time of submittal of bid shall be considered to be the issue in effect (unless shown otherwise) of all applicable codes including, but not limited to:
 - 1. Wisconsin Building Code
 - 2. Wisconsin Electrical Code
 - 3. Wisconsin Mechanical Code
 - 4. Wisconsin Plumbing Code
 - 5. Wisconsin Energy Code
 - 6. Wisconsin Fire Code
 - 7. NFPA 70 National Electrical Code
 - 8. General Services Administration 41 CFR Part 101-19
 - 9. Americans with Disabilities Act (ADA)
 - 10. Energy Conservation Performance Standards,
 - 11. Local Codes
- B. Contractor is expected to know or to ascertain, in general and in detail, the requirements of all codes and ordinances, and all rulings and interpretations of code requirements being made by all authorities having jurisdiction over the work performed by them, applicable to the construction and operation of systems covered by this contract. Where codes or standard specifications other than those listed in this paragraph are referred to in the different Divisions of these specifications, it is understood that they apply as fully as if cited here. Where differences exist between codes affecting this work, the code affording the greatest protection to the City shall govern. Maintenance clearances shall be maintained around equipment as required by the Codes and Standards, and as recommended by the equipment manufacturers. The maintenance envelope and equipment access shall be kept clear of any obstruction. It is Contractor's responsibility to enforce these requirements with all the Contractors. The Contractor shall be responsible for correcting any infringement on this requirement at no cost to the City. All cost for items and procedures necessary to satisfy requirements of all applicable codes, ordinances and authorities, whether or not these are specifically covered by drawings or specifications. All cases of serious conflict or

omission between the drawings, specifications, and codes shall be brought to the City's attention as herein before specified. The Contractor shall carry out work and complete construction as required by applicable codes and ordinances and in such a manner as to obtain approval of all authorities whose approval is required.

- C. Contractor is responsible for obtaining permits at its own cost including expenses for supporting documents. Deliver original permits to the City before work starts. Obtain and pay for all required installation inspections except those provided by the City. Deliver originals of these certificates to the City. Include copies of the certificates in the Operating and Maintenance Instructions. Contractor shall arrange all required inspections and correct all deficiencies at no cost to the City.
- D. The Contractor must maintain all licenses required for the work performed and required by authorities. In addition all licenses and certificates required elsewhere have to be maintained. If a Contractor loses a license for whatever reason he must inform the City immediately after learning about that himself. The Contractor must submit proof of holding the license or certificate upon request.

1.10 SUBMITTALS

- A. Documents have to be submitted in electronic form (PDF) as described elsewhere in addition to hardcopies no later than 3 business days after start work letter is issued. The City or designee will review, and process shop drawings and other required submittals with reasonable promptness. No delay will be allowed in the progress of the job attributable to Contractor's failure to supply submittals in time.
- B. The Contractor shall submit three (3) prints of all shop drawings, submittal data consisting of brochures, catalogs, material lists, wiring diagrams, Material Safety Data Sheets (MSDS), samples, erection drawings, and equipment layouts for review by the City Engineer or his designee. General catalog sheets showing a series of the same device is not acceptable unless the specific model is clearly marked. Submittals shall be processed with such promptness as not to cause delay to the work or to that of any other Contractor. Each submittal shall be provided together with a transmittal letter or form. Each original transmittal shall be assigned a transmittal number. The number shall begin with the first initial of the name of the Contractor's firm followed by a serial number. The resubmittals shall indicate the same number with numerical suffix in sequence. Each transmittal shall itemize the enclosures and indicate the distribution of the transmittal and the enclosures. The following information shall be included on all submitted documents: Agency/Location/Address obtained, project number, building name, project name. Submittals shall be grouped to include complete submittals of related systems, products, and accessories in a single submittal. Mark dimensions and values in units to match those specified. Include wiring diagrams of electrically powered equipment.
- C. Submit all original documents providing information regarding sustainability requirements including but not limited to recycled content, VOC, certified wood, disposal certificates and transportation distance. Contractor is required to prove that material and methods used meet all requirements specified elsewhere.
- D. The City or designee will return the marked and stamped drawings together with transmittal letter or form to Contractor. If re-submittal is required, the City Engineer or designee will so note and Contractor shall make another submission for review after correction resolving the review comments on the prior submittals. The above procedure shall be repeated until the City Engineer or designee favorably reviews the submittal. The submittals must be approved before material is ordered and fabrication is authorized.
- E. The City Engineer's or designee's favorable review of shop drawings and other submittals shall not relieve the Contractor of responsibility for deviations from drawings or specifications, unless the Contractor has in writing called the City Engineer's or designee's attention to such deviations at the time of submission, and the City Engineer or designee has acknowledged in writing such deviations; nor shall it relieve the Contractor from responsibility for errors of any sort in such drawings. If deviations, discrepancies, or conflicts between shop drawing submittals and the drawings and specifications are

discovered either prior to or after the shop drawing submittals are reviewed by the City Engineer or designee, the drawings and specifications shall control and shall be followed. The Contractor shall be responsible for and shall check the correctness of all documents including those subcontractors prior to submitting them to the City for review.

- F. The Contractor shall furnish prints of the favorably reviewed final shop drawings, erection drawings, equipment layouts and vendor data to subcontractors and suppliers for the proper coordination of their work. The Contractor shall keep one (1) complete set of the above documents at the job site for the use of the City.
- G. After the completion of the project, and prior to final payment, submit:
 - 1. One (1) copy of the Waste Manifest Records to the The City, if required in accordance with "Safety and
 - 2. Environment" Requirements Article "HAZARDOUS SUBSTANCES".
 - 3. The original and one (1) copy of all guarantee/warranty documents.

1.11 DRAWINGS AND SPECIFICATIONS

- A. Drawings indicate approximate locations of the various items. These items are shown approximately to scale and attempt to show how these items should be integrated with building construction. Locate all the various items on-the-job measurements in conformance with code and cooperation with other trades.
- B. Before locating items, confer with the City as to desired location in the various areas. In no case items shall be located by scaling drawings. Contractor must relocate items and bear cost of redoing work or other trades' work necessitated by failure to comply with this requirement.
- C. If electrical items are to be relocated within 10 feet of location shown on drawings and Contractor is informed before work is begun on this portion of the job, the relocation shall be at Contractor's expense. Drawings are schematic in nature and are not intended to show exact locations of conduit but rather to indicate distribution, circuitry, and control.
- D. Standard Specifications: Standard Specifications such as ANSI, AASHO, AWWA, AISC, Commercial Standards, Federal Specifications, NEMA, UL, and the like incorporated in the requirements by reference shall be those of the latest edition at time of receiving bids, unless otherwise specified. The manufacturers, producers and their agents of required materials shall have such specifications available for reference and are fully familiar with their requirements as pertains to their product or material.
- E. Contract Drawings and Specifications on the Job: contract drawings shall be kept on the job by the Contractor shall include at least one copy of Drawings and Specifications, all approved shop and erection drawings and schedules, lists of materials and equipment, as-built drawings, addenda and bulletins, documents relevant to the work. The list of Subcontract drawings is attached to these Specifications.
- F. Maintain a complete, precise, accurate dimensioned record of actual locations of the work, including concealed and embedded work, size and type of equipment, and every change or deviation from original contract drawings at the site. Keep this record legible and correct weekly as the job progresses on black or blue-line prints. Keep Record Drawings available for inspection at all times. Drawings will be inspected before approval of requests for payment.
- G. It shall be the responsibility of the Contractor to submit to the City within ten (10) days after final inspection, one complete marked-up set of contract drawings fully illustrating all revisions made by all the crafts in the course of the work. This shall include all field changes, adjustments, variances, substitutions and deletions, whether covered by Change Order or not. Underground utility installations must be located precisely as constructed on the marked-up drawings.

- H. The Contractor shall not take advantage of any apparent error or omission in the plans or specifications, and the City shall be permitted to make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications.
- I. In addition to verifying at the site all measurements shown on the Drawings, Contractor shall consult the Drawings and Specifications of related work or existing construction that may in any manner affect the work of this contract. Contractor shall promptly report to the City, in writing, any errors, omissions, violations, or inconsistencies that may be discovered as a result of such verifications; otherwise, it shall be understood that Contractor accepts all such related data and conditions without reservations.
- J. Layout of existing piping, conduits, and locations of equipment are shown as exactly as could be determined during design of the facilities; but their accuracy, particularly when such layouts and drawings are schematic, cannot be guaranteed. Contractor shall check all Specifications including the Drawings for possible interference with electrical, mechanical, and structural details, as well as interference with existing building or equipment, and shall notify the City of the interference for resolution of the interference before commencing work. Any completed work that interferes shall be corrected by Contractor at Contractor expense so that the original design can be followed.

1.12 OPERATION AND MAINTENANCE DATA

- A. Submit data bound in 8-1/2 x 11 inch (A4) text pages, Use three D side rings if necessary and binders with durable plastic covers. Submit all documents in electronic form as well as in hardcopy. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project and subject matter of binder when multiple binders are required. Internally subdivide the binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
- B. Contents: Prepare a Table of Contents for each volume, with each Product or system description identified, typed on 20-pound white paper, in three parts as follows:
 - 1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, Subcontractors, and major equipment suppliers.
 - 2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers. Identify the following:
 - a. Significant design criteria.
 - b. List of equipment (including assigned equipment numbers).
 - c. A description of recommended replacement parts and materials, which the City should stock.
 - d. Parts list for each component.
 - e. A summary of equipment vendors, or location where replacement parts can be purchased.
 - f. List indicating types and grades of oil and/or grease, packing materials, normal and abnormal tolerances for devices, and method of equipment adjustment.
 - g. Copies of all approved submittals.
 - h. Operating instructions.
 - i. Maintenance instructions for equipment and systems, Preventive maintenance recommendations.
 - j. Maintenance instructions for finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
 - k. Manufacturer's wiring diagrams for electrically powered equipment.
 - l. A complete set of record control drawings.
 - m. Additional information as indicated in the technical specification sections
 - 3. Part 3: Project documents and certificates, including the following:
 - a. Product data.
 - b. Air and water balance reports.
 - c. Certificates.

- d. Photocopies of warranties.
 - e. Name, address, and telephone number of the person or office to contact for service during the warranty period.
 - f. Name, address, and telephone number of the person or service organization to be contacted for service after the warranty period.
- C. Submit 1 draft copy of completed volumes 15 [fifteen] days after approval of applicable submittal or receipt of the product. Revise content of all document sets as required prior to final submission. Submit 2 [two] sets of revised final volumes, within 10 [ten] days after final inspection.

1.13 SAFEGUARDS - EXISTING EQUIPMENT, UNDERGROUND UTILITIES AND ARTIFACTS

- A. Existing utilities, including those listed as abandoned, shall not be moved or otherwise disturbed without written verification by the City that the utility is abandoned.
- B. When altering existing facilities, the Contractor shall take every precaution to preserve and protect existing facilities, both those to be altered and those to remain unaltered that are within the limits of the work.
- C. The Contractor shall notify the City of structural members, piping, conduit, or equipment not indicated for removal that may cause interference with the work. Work shall not proceed in the affected area until instructions have been issued. Do not drill or penetrate existing structures without prior permission. The removal of existing work shall be by methods that will not jeopardize the integrity of structures or systems that are to remain.
- D. Existing utilities, including but not limited to roof drainage systems, underground cables, ducts, roadways, manholes, building fire alarm, public address or telecommunications wiring shall not be moved or otherwise disturbed, nor electrical circuits or switches operated or taken in or out of service, without prior consent of the City. Contractor shall compensate loss to the City resulting from damage to utilities.
- E. If bones or artifacts are encountered during digging, the City requires that the Contractor stop work within a 50-foot radius of the find and immediately notify the City. Work may continue only with approval from the City.

1.14 LOOSE AND DETACHABLE PARTS

- A. Contractor shall retain all loose and small detachable parts of apparatus and equipment furnished under this Contract, until completion of the work and shall turn them over to the City to receive them.
- B. Furnish one can of touch-up paint for each different color factory finish furnished by the Contractor. Deliver touch-up paint with other "loose and detachable parts".

1.15 STAIRS, SCAFFOLDS, HOISTS, ELEVATORS OR CRANES

- A. The Contractor shall furnish and maintain equipment such as temporary stairs, fixed ladders, ramps, chutes, runways and the like as required for proper execution of work by all trades, and shall remove them on completion of the work. The Contractor shall erect permanent stair framing as soon as possible. Provide stairs with temporary treads, handrails, and shaft protection. Contractors requiring scaffolds shall make arrangements with the Contractor, or shall provide their own and remove them on completion of the work. The Contractor shall underlay its interior scaffolds with planking to prevent uprights from resting directly on the floor construction.

- B. Contractor shall provide and pay for its own hoist/crane or other apparatus necessary for unloading/setting or moving their equipment and materials. Installation and removal of equipment for this activity must be accounted for in the Project Schedule. Equipment and operations for this activity shall comply with applicable Department of Commerce and OSHA requirements. No material hoist may be used to transport personnel unless it meets Department of Commerce and OSHA requirements for that purpose.
- C. Existing elevators may be used on a limited basis with the City's permission and agreement. The Contractor will pay costs of warranty extensions and additional service work required. Appropriate protection must be provided by the using Contractor and that Contractor shall be responsible for any structural, mechanical or finish damage to the elevator and its parts and to adjoining building finishes and components.

PART 2 - PRODUCTS

2.1 SPECIFIED ITEMS -- SUBSTITUTES

- A. Wherever catalog numbers and specific or trade names are used in conjunction with a designated material, product, thing, or service mentioned in these Specifications, they are used to establish the standards of quality, utility, and appearance required. Substitutions, which are equal in quality, utility, and appearance to those specified, will be approved, subject to the following provisions:
- B. All Substitutions must be accepted by the City Engineer or designee in writing. The City Engineer or designee will accept, in writing, such proposed Substitutions as are in his or her opinion, equal in quality, utility, and appearance to the items or materials specified. Such acceptance shall not relieve the Contractor from complying with the requirements of the drawings and specifications, and the Contractor shall be responsible at Contractor's own expense for any changes resulting from Contractor proposed substitutions which affect the other parts of Contractor's own work or the work of others.
- C. The manufacturer shall be a company specializing in the manufacture of the specified equipment and accessories with minimum five years documented experience.
- D. Failure of the Contractor to submit proposed substitutions for approval in the manner described above and within the time prescribed shall be sufficient cause for disapproval by the City Engineer or designee of any substitutions otherwise proposed.

2.2 APPROVED TESTING LABORATORIES

- A. The following laboratories are approved for providing electrical product safety testing and listing services as required in these specifications:
 - 1. Underwriters Laboratories Inc.
 - 2. Electrical Testing Laboratories, Inc.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and all code requirements. Provide the City or designee with copy of manufacturer's instructions prior to installation. Coordinate equipment location

with piping, ductwork, conduit and equipment of other trades to allow sufficient clearances. Locate equipment to provide access space for servicing all components. Install in accordance with recognized industry practices. The manufacturer's latest recommendations at the time of bidding shall be used.

- B. Startup and test equipment and adjust operating and safety controls for proper operation.
- C. Contractor shall coordinate work with existing equipment so that all systems, equipment and other components will fit the available space, and will allow proper service and repair. Each location needs to be approved by the City or designee. This also applies to existing equipment if newly installed equipment interferes with its accessibility. Location of equipment has to fit into existing panels, decoration or finish. The City can request minor position changes of equipment before the work has begun.
- D. The Contractor shall cooperate in reducing objectionable noise or vibration. If noise or vibration is a result of improper material or installation, these conditions shall be corrected at no cost to the City. Abnormal buzzing in equipment is not acceptable.
- E. Carpentry, Cutting, Patching, and Core Drilling:
 - 1. Provide carpentry, cutting, patching, and core drilling required for installation of material and equipment specified in the scope of work. Do not cut, core, or drill structural members without consent of the City.
- F. Waterproof Construction:
 - 1. Maintain waterproof integrity of penetrations of materials intended to be waterproof. Provide flashings at exterior roof penetrations. Caulk penetrations of foundation walls and floors watertight. Provide membrane clamps at penetrations of waterproof membranes. Provide waterproof NEMA 3R enclosures for all equipment or devices mounted outside or otherwise exposed to the weather.
- G. Workmanship:
 - 1. Install using procedures defined in NECA Standard of Installation and shall conform with all codes and regulations. Materials and equipment of the types for which there are National Board of Fire Underwriters' Laboratories (UL) listing and label service shall be so labeled and shall be used by Contractor.
- H. Modifications to existing construction and Alterations:
 - 1. Alter, extend and reconnect existing conduit as necessary. Reconnect existing conduits, which were reused, cut or exposed because of construction as quickly as possible. Where wiring is involved, new wires shall be "pulled in" between the nearest available accessible reused outlets to the extent allowed by the governing code. Furnish and install new conduits for wires if they cannot be "pulled in" to existing conduits. All new conduits, wiring, and electrical items shall be connected to the existing systems so as to function as a complete unit. Where existing electrical equipment, devices, fixtures, electrically operated items, etc., interfere with any remodeling work, they shall be removed and reinstalled in another location to avoid such interferences. All existing and relocated equipment shall be left in good operating condition. Include in bid removal from service of existing electrical material and equipment as specified hereinafter, as noted on the drawings, or as needed by field conditions.
- I. Painting of Equipment and Hardware:
 - 1. Provide moisture resistant paint for all exterior painting. Colors shall be as shown on the drawings unless specified.
 - 2. Refer to individual Sections and construction drawings for painting requirements. All exposed conduits, raceways and gutters inside and outside the building shall be painted to match the wall color.

3.2 DELIVERY, STORAGE AND HANDLING OF MATERIALS

- A. Contractor or the Contractor's authorized representative must be present to accept delivery of all equipment and material shipments. The City will not knowingly accept, unload or store anything delivered to the site for the Contractor's use. Inadvertent acceptance of delivered items by any or employee of the City shall not constitute acceptance or responsibility for any of the materials or equipment. It is the Contractor's responsibility to assume liability for equipment or material delivered to the job site.
- B. Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays. Materials and equipment shall be delivered to the site in adequate time to ensure uninterrupted progress of the work and inspection of material by the City. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Care shall be taken to prevent damage to materials and equipment during loading, transporting and unloading. Packaged materials and equipment shall be delivered to the site in original, undamaged containers bearing manufacturer's name, with seals unbroken. Packaged units shall be delivered in their original crates. Store in a clean and dry space. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic. Promptly inspect shipments to insure that the material is undamaged and complies with specifications. Materials or equipment, which do not conform to the Specifications or are damaged shall not be incorporated in the work and shall be immediately removed from the site.
- C. Arrange for the necessary openings in the building to allow for admittance of all apparatus. When the building access was not previously arranged and must be provided by this Contractor, restore any opening to its original condition after the apparatus has been brought into the building.
- D. Contractor shall confine equipment, apparatus, storage of materials and operations to limits indicated on the drawings or by specific direction of the City. The storage of materials on the grounds and within the building shall be in strict accordance with the instructions of the City. Storage of materials within the building shall at no time exceed the design carrying capacity of the structural system. The City assumes no responsibility for materials stored in building or on the site. The Contractor assumes full responsibility for damage due to the storage of materials. Repairing of areas used for placing of sheds, offices, and for storage of materials shall be done by the Contractor.
- E. Material shall be stored according to manufacturer's recommendations as a minimum. Provide and maintain watertight storage sheds on the premises where directed, for storage of materials that might be damaged by weather. Sheds shall have wood floors raised at least 6" above the ground. Materials, construction sheds, and earth stockpiles shall be located so as not to interfere with the installation of the utilities nor cause damage to existing lines. Should it be necessary at any time to move material sheds or storage platforms, the Contractor shall move it at the Contractor's expense, when directed by the City. All materials affected by moisture shall be stored on platforms and protected from the weather. In addition, material must be stored in a location protected from vandalism and weather. If material is stored outside, it must be covered with opaque plastic or canvas with provision for ventilation to prevent condensation and for protection from weather. If necessary, material will be stored off site at the Contractor's expense. Offsite storage agreements will not relieve the Contractor from using proper storage techniques. Storage and protection methods must allow inspection to verify products.
- F. All materials shall be stored in a manner that prevents release of hazardous material to the environment. All hazardous materials, including motor fuels, shall be properly handled and contained to prevent spills or other releases. The Contractor shall develop and maintain a contingency plan to provide emergency response, containment, and cleanup of spills of hazardous materials resulting from contract activities. All spills and releases shall be reported to the City as soon as possible. Please note that the Standard Specifications Section 107 A(f) must be followed and overrides any provision in these specifications.
- G. Cover pipes and ducts to prevent corrosion or deterioration while allowing sufficient ventilation to avoid condensation. Do not store materials directly on grade. Protect pipe, duct, tube, and fitting ends so they

are not damaged. Where end caps are provided or specified, take precautions so the caps remain in place. Protect fittings, flanges, and unions by storage inside or by durable, waterproof, above ground packaging.

- H. Store windows and doors in upright position, off ground, under cover and protected from sunlight, weather and construction activities.

3.3 DEMOLITION

- A. Perform all demolition as indicated on the drawings to accomplish new work. Demolition Drawings are based on casual field observation and/or existing record documents. Verify field measurements and circuiting arrangements as shown on Drawings, verify that abandoned wiring, piping, ducting and equipment serve only abandoned facilities. Report discrepancies to the City before disturbing existing installation. Beginning of demolition means installer accepts existing conditions.
- B. Before demolition of any load bearing concrete, a ground-penetrating radar or concrete X-ray scan needs to be performed to detect any rebar. This work shall be performed at least a week before demolition starts to give A/E the opportunity to resolve any issues by rebar or other obstacles in unexpected locations. Drawings with existing subsurface obstacles may not be correct and shall not be relied on.
- C. Where demolition work is to be performed adjacent to existing work that remains in an occupied area, construct temporary dust partition to minimize the amount of contamination of the occupied space. Where pipe or duct is removed and not reconnected with new work, cap ends of existing services as if they were new work. Coordinate work with the City to minimize disruption to the existing building occupants.
- D. All pipe, wiring and associated conduit, insulation, ductwork, and similar items demolished, abandoned, or deactivated are to be removed from the site by the Contractor. Maintain the condition of material and/or equipment that is indicated to be reused equal to that existing before work began. All piping and ductwork specialties are to be removed from the site by the Contractor unless they are dismantled and removed or stored by the City. Verify whether or not PCB ballasts exist in light fixtures, which will be disposed of. If PCB light fixture ballasts exist, then follow requirements in other sections related to electrical work.
- E. Patch holes and openings caused by removal of material and equipment, or formerly covered by such, with like material and texture of surrounding surface. Painting is not necessary unless noted otherwise.
- F. Approval of all legal institutions shall be obtained prior to disposal of any equipment and materials. All disposal has to be in compliance with all local, county, state and nationwide regulations. All disconnected wiring shall be removed from all raceway systems, panels, enclosures pull boxes, junction boxes etc. irrespective of whether the removal is specified in the construction documents or not. The empty raceway systems shall be tagged spare on both ends of each termination. .
- G. Don't demolition equipment and material that is to stay in place. Replace and repair any equipment and installations that get damaged during demolition.

3.4 CUTTING, PATCHING AND PAINTING

- A. Cutting and patching required to access work in existing walls, in chases, above inaccessible ceilings, below floors, etc., shall be by the Contractor who requires the access, unless shown on the bid documents otherwise or noted otherwise.
- B. The Contractor shall do all cutting, or fitting of the work as required to make its several parts fit together, or to receive the work of others, as shown or reasonably implied by the drawings or specifications, or as may be directed by the City. Holes cut in exterior walls and/or roofs shall be waterproofed.

- C. The Contractor who cuts shall also be responsible for patching. Where cutting and patching is required, the Contractor shall hire individuals skilled in such work to do cutting and patching. The Contractor who removes or relocates building components which leaves a remaining opening shall be responsible for patching the opening.
- D. Patching includes repairing openings to match adjacent construction and painting the surface to match existing surface including texture.
- E. Painting means covering the entire wall where patching is to be done to nearest break point or corner unless indicated to be done by other trades. All painting will require patching. This includes all painting included in other sections.
- F. Contractor shall not endanger any work by cutting, digging or otherwise and shall not cut or alter the work of others without their consent.
- G. Do not pierce beams or columns without permission of the City and then only as directed in writing. If any ductwork, piping, conduit, etc. is required through walls or floors where no sleeve has been provided, use a core drill or saw cut to prevent damage and structural weakening.
- H. Wherever any material, finish, or equipment, is damaged, the skilled trade shall accomplish the repair or replacement, in that particular work and the cost shall be charged to the party responsible for the damage. The City reserves the right to disallow any means *and/or* methods that, in the opinion of the City, are harmful to and/or not in the best interest of preserving the improvements receiving the work.

3.5 CLEANING

- A. The Contractor shall clean up and remove from the premises, on a daily basis accumulation of surplus materials, rubbish, debris and scrap and shall repair all damage to new and existing equipment resulting from its work. When job is complete, this Contractor shall remove all tools, excess material and equipment, etc., from the site.
- B. All installed items shall be cleaned at time of installation, and all lens exteriors shall be cleaned just prior to final inspection. Equipment shall be thoroughly cleaned of all stains, paint, spots, dirt and dust. All temporary labels not used for instruction or operation shall be removed. Dust, dirt and other foreign matter shall be removed completely from all internal surfaces of all mechanical and electrical units, cabinets, ducts, pipes, etc. Dirt, soil, fingerprints, stains and the like, shall be completely removed from all exposed finished surfaces.
- C. Contractor shall wash all glass immediately prior to the occupancy of this project. Work shall include the removal of labels, paint splattering, glazing compound and sealant. Surfaces shall include mirrors and both sides of all glass in windows, borrowed lights, partitions, doors and sidelights. In addition to the above, the Contractor shall be responsible for the general "broom" cleaning of the premises and for expediting all of the cleaning, washing, waxing and polishing required within the technical sections of the specifications governing work under this Contract.
- D. The Contractor shall also perform "final" cleaning of all exposed surfaces to remove all foreign matter, spots, soil, construction dust, etc., so as to put the project in a complete and finished condition ready for acceptance and use intended.
- E. If rubbish and debris is not removed, or if surfaces are not cleaned as specified above, the City reserves the right to have said work done by others and the related cost(s) will be deducted from monies due the Contractor.

3.6 CONTINUITY OF SERVICE AND SHUTDOWN

- A. Contractor shall provide and maintain continuous service (power, controls, alarms, communication, elevators, HVAC, roads etc.) during the entire construction period. No outages shall be permitted on existing systems except at the time and during the interval specified by the City. Any outage must be scheduled when the interruption causes the least interference with normal institutional schedules and business routines and might be scheduled during after-hours if regular business hours are not acceptable to the City. No extra costs will be paid to the Contractor for such outages, which must occur outside of regular weekly working hours. Cost to the utility is paid by Contractor. The Contractor shall provide temporary utility services and bypasses for any disruptions not completed within this period. The Contractor shall restore any circuit interrupted as a result of this work to proper operation as soon as possible.
- B. If the building is occupied and continues operation during construction, retrofit or demolition, Contractor must maintain ventilation and air conditioning for as large parts of the building as technically feasible. Spreading of dirt, dust and other construction related material must be kept to a minimum. Occupied and work areas must be separated by seals. All work affecting air conditioning and ventilation must be coordinated with the daily work in the building and approved by the supervisor or department head at the building. If air conditioning, heating and ventilation has to be taken out of service for longer periods of time in parts of the building and work would be affected negatively, the Contractor shall provide temporary sufficient air conditioning, heating and ventilation in coordination with the department. All such taking out of service has to be coordinated and approved by the supervisor or department head at the building.
- C. If the shutdown involves the interface with, or modification of, existing building energy system(s), the Contractor shall be required to show the reviewed submittal and shop drawings of the proposed modifications. Shutdown schedules shall have been reviewed and approved by the City at least 72 hours prior to date of shutdown. Postponement by the City of scheduled shutdowns shall not constitute a basis for additional charges to the City.
- D. Prior to the shutdown of any building energy system(s) the Contractor shall provide the following:
 - 1. Proof of receipt of all materials required for the shutdown or a written commitment from the responsible suppliers that the required materials will be available at the time of the shutdown.
 - 2. A list of the qualified Contractor personnel assigned to perform the work.
 - 3. Analysis of any affect on the utility or building energy system(s) and the estimated duration of the shutdown.
 - 4. Work plan for the shutdown
 - 5. A twenty-four-hour emergency callback phone number to be used by the City in the event of any problems or concerns with the modifications made to the building system(s) after the Contractor has left the site.
- E. The startup of electrical and mechanical utility systems constructed by Contractor shall be performed by Contractor in coordination with the City.

3.7 PROJECT MEETINGS

- A. Project meetings will be held at the time designated by the City. If the principal of the firm does not attend meetings, a responsible representative of the Contractor who can bind the Contractor to a decision at the meetings shall attend.
- B. During construction, weekly project meetings may be held at the discretion of the City. The minutes of these meetings will be prepared by the Contractor and one copy issued as expeditiously as possible to the each party involved in the project. The Contractor will prepare meeting agenda and be responsible to

lead meeting attendees through said agenda. The Contractor will submit, in writing, questions and/or answers (previously obtained verbally) to be confirmed at each meeting.

3.8 TEMPORARY CONSTRUCTION

- A. Temporary construction shall conform to all requirements and laws of state and local authorities, which pertain to operation, safety, and fire hazards. Contractor shall furnish and install all items necessary for conformance with such requirements, whether called for under separate sections of these Specifications or not. Contractor shall provide, maintain, and remove upon completion of his work:
 - 1. Temporary crossovers and bypass to utilities, electrical connections, traffic and footbridges, and walkways used to maintain services or communications, which cannot be interrupted or curtailed.
 - 2. Temporary rigging, scaffolding, shoring, hoisting equipment, and all other temporary work as required for this project.
 - 3. Temporary barricades around openings and excavations for this project.
- B. Temporary lighting, if necessary during the period of construction, shall be supplied and maintained by the Contractor at Contractor expense so that construction work can be safely performed. The temporary lighting system shall be sufficient to enable all trades to safely complete their work and to enable the City to check all work as it is being done. Illumination shall be 5 foot-candles minimum in all areas and, in addition, shall meet or exceed the requirements of 29 CFR 1926.56 Illumination (OSHA regulations). In accordance with the latest issue of the National Electrical Code, all temporary electrical circuits for construction purposes shall be equipped with combination ground fault interrupter and circuit breakers meeting the requirements of UL for Class A, Group 1 devices. The ground fault interrupter portion shall be solid-state type, insulated and isolated from the breaker mechanism. A test button shall be provided for checking the device. The breaker mechanism shall provide overload and short circuit protection and shall be operated by a toggle switch with over center switching mechanism so that contact cannot be held closed.

3.9 LUBRICATION

- A. Lubricate all bearings with lubricant as recommended by the manufacturer before the equipment is operated for any reason. Once the equipment has been run, maintain lubrication in accordance with the manufacturer's instructions until the work is accepted by the City. Maintain a log of all lubricants used and frequency of lubrication; include this information in the Operating and Maintenance Manuals at the completion of the project.

3.10 PUNCH LIST

- A. Contractor's supervisor at site shall acknowledge receipt of punch list.
- B. Multiple punch lists can be submitted.
- C. If Contractor fails to perform required corrective work in less than 30 days upon receipt of punch list by Contractor, the City can perform corrections himself and charge the Contractor.
- D. Contractor shall advise the City or designee that the necessary work has been performed. If the City or designee verify if punch list items were not resolved and the work was not performed in less than 30 days upon receipt of punch list by Contractor, the Contractor shall be required to compensate the designee for additional site visits at a rate of \$100/hour plus mileage with the amount paid to the City or designee prior to processing the final payment.

3.11 CLOSEOUT PROCEDURES

A. Substantial Completion:

1. Proceed as follows when Contractor considers the Work to be Substantially Complete:
 - a. Submit written notice to the A/E with list of items to be completed or corrected.
 - b. Within a reasonable time, the A/E and owner will inspect to determine status of completion.
 - c. Should A/E determine that Work is not substantially complete, he will promptly notify Contractor in writing, giving the reasons therefore.
 - d. Contractor shall remedy deficiencies, and send a second written notice of substantial completion, and A/E and Owner will reinspect the Work.
 - e. When A/E determines that Work is substantially complete, he will prepare a Certificate of Substantial Completion in accordance with the General Conditions.

B. Final Completion:

1. A/E will consider Closeout Submittals within 10 days after date of Substantial Completion of the whole Work.
2. When Contractor considers Work is complete, he shall submit written certification that:
3. Contract Documents have been reviewed.
4. Work has been inspected for compliance with Contract Documents.
5. Work has been completed in accordance with Contract Documents, and deficiencies listed with Certificates of Substantial Completion have been corrected.
6. Equipment and systems have been tested in presence of Owner's representative and are operational.
7. Work is complete and ready for final inspection.

C. Closeout Submittals:

1. Comply with the Proposal, Contract, Bond, and Specification documents, prepared by The City of Madison and the following Closeout procedures.
2. Evidence of compliance with requirements of governing authorities:
 - a. Certificates of Inspection.
 - b. Affidavit of Compliance With Prevailing Wage Rate Determination, if applicable (See Section 01235).
3. Project Record Documents: In accordance with 01782 - Project Record Documents.
4. Operation and Maintenance Data, Instructions to Owner's Personnel: In accordance with 01784 - Operating and Maintenance Data.
5. Warranties and Bonds: In accordance with 01786 - Warranties and Bonds.
6. Evidence of Payment of Debts and Claims and Release of Liens: Utilize AIA Documents G706 and G706A.
7. Consent of Surety to Final Payment: Utilize AIA Document G707.
8. Certificates of Insurance for Products and Completed Operations:
9. The Application for Final Payment:
 - a. In accordance with the Proposal, Contract, Bond, and Specification documents, prepared by The City of Madison.

3.12 PROJECT RECORD DOCUMENTS

A. Maintain at the site for the Owner, one record copy of:

1. Drawings, Project Manual, and Addenda.
2. Required State approved Documents.
3. Construction schedule.
4. Change Orders and other modifications to the Contract.
5. A/E field orders or written instructions.
6. Approved Shop Drawings, product data and samples.

- 7. Field test records.
- B. Maintain documents in a clean, dry, legible condition, and in good order. Do not use record documents for construction purposes.
- C. Label record documents "PROJECT RECORD" in neat, large printed letters.
- D. Record information concurrently with construction progress.
- E. Do not conceal any work until required information is recorded.
- F. Drawings; Legibly mark to record actual construction:
 - 1. Field changes of dimension and detail.
 - 2. Changes made by Field Order or Change Order.
 - 3. Details not on original Contract Drawings.
- G. Specifications and Addenda; Legibly mark each Section to record:
 - 1. Manufacturer, trade name, catalog number, and Supplier of each Product and item of equipment actually installed.
 - 2. Changes made by Field Order or by Change Order.
- H. At Contract Closeout, deliver Record Documents to A/E for the Owner.

3.13 TESTS AND FINAL ACCEPTANCE

- A. The complete installation consisting of the several parts and systems and all equipment installed according to the requirements of the Contract Documents, shall be ready in all respects for use by the City and shall be subjected to a test at full operating conditions and pressures for normal conditions of use.
- B. Proper notice has to be given to enable the City or designee to attend all tests. Failure to give proper notice can result in repeated tests to be paid for by the Contractor. Tests are acceptable on properly working equipment only and have to be repeated as often as required by the City at no cost to the City. If tests have to be repeated by an City-hired Contractor due to equipment not installed or working properly, the Contractor shall reimburse the City for additional testing expenses.
- C. Contractor shall make all necessary adjustments and replacements affecting the work, which is necessary to fulfill the City's requirements and to comply with the directions and recommendations of the manufacturer of the several pieces of equipment, and to comply with all codes and regulations, which may apply to the entire installation. Contractor shall also make all required adjustments to comply with all provisions of the drawings and specifications.
- D. Prior to acceptance, all elements of operating equipment, including those of mechanical nature and those that slide, swing, turn, or are intended to move in any way and those of an electrical nature, shall be given an operating test to assure to the satisfaction of the City that such equipment operates as required. Contractor shall make all adjustments, replacements, and such other modifications as needed. If it is necessary to run equipment in order to complete the work, for periods that exceed the manufacturer's recommended maintenance interval, the Contractor will provide such required maintenance at no additional cost to the City.
- E. Notice that the work is ready for final inspection and acceptance shall consist of a written notice issued to the City by the Contractor stating that the Contractor has carefully inspected all portions of the work, has reviewed in detail the drawings and specifications, and that to the best of the Contractor's knowledge all conditions of the contract documents have been fulfilled. Upon receipt of this notice, the City and the Contractor shall make a joint inspection of the work. After deficiencies, if any, have been corrected or

accounted for, and after all work is satisfactorily complete, the City will accept the work; and Notice of Completion will be filed by the City.

F. Prior to final acceptance, filing of the Notice of Completion or processing of final payment, the following shall be done and submitted reviewed and accepted by the City:

1. Certificates of compliance and guarantees required under various Sections
2. Operating and maintenance manuals
3. Instruction to City personnel, as required
4. Test reports (TAB, fire alarm, elevator etc.)
5. Certifications and registrations (boiler etc.)
6. All keys
7. Replacement material as required in specifications
8. All required operations tests
9. All documents required by commissioning and other project related documents
10. Satisfy all commissioning requirements
11. As -built documents
12. All punch list items resolved
13. All training provided (except deferred seasonal training)
14. All warranty issues brought to Contractor's attention so far resolved
15. Warranty documents signed by representative of manufacturer, guarantee documents, roofing agreement and other warranty related documents

G. No official closeout and final payment will be made before all requirements are met.

End of Section 010002

SECTION 024119 – SELECTIVE DEMOLITION, ALTERATION, AND PATCHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Selective demolition at and within the existing building.
 - 2. Restoration of surfaces altered by demolition.

1.3 SUBMITTALS

- A. Submit to A/E, permits and notices authorizing demolition if required.

1.4 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with governing state or local government agency regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

1.5 PROTECTION

- A. Do not interfere with use and operation of existing adjacent work areas. Maintain free and safe passage to and from.
- B. Cease operations and notify Owner and A/E immediately if safety of adjacent work areas appears to be endangered. Do not resume operations until safety is restored.
- C. Protect existing work not indicated or scheduled to be altered. Promptly repair damages at no cost to the Owner.
- D. Provide, erect and maintain safety devices as required to protect general public, workers, and adjoining work area employees.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Except for items or materials indicated to be reused, salvaged, or otherwise indicated to remain the Owner's property, demolished materials shall become the Contractor's property and shall be removed from the site. Store items as directed by Owner.

2.2 SALVAGED MATERIALS

- A. Conform to requirements specified in Division One -- General Requirements-- Alteration Project Procedures.

2.3 PRODUCTS FOR PATCHING

- A. Provide as required to match adjacent surfaces or as indicated.

PART 3 - EXECUTION

3.1 DEMOLITION

- A. Demolish in an orderly and careful manner as required to salvage products indicated.
- B. Perform demolition in accordance with applicable authorities having jurisdiction.
- C. Repair all demolition performed in excess of that required at no cost to the Owner.
- D. Remove demolished materials, tools and equipment from site upon completion of work. Leave site in a condition acceptable to A/E.

3.2 SALVAGE

- A. Carefully remove, salvage, and turn over to Owner items designated on the Drawings to be salvaged, including but not limited to the following items:
 - 1. Doors

3.3 PATCHING

- A. Comply with installation requirements specified elsewhere for products used.
- B. Patch all damaged surfaces with products to match adjacent finishes.

END OF SECTION 024119

SECTION 060110 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Wood furring and grounds.
 - 2. Plywood backing panels.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Comply with performance requirements in AWWA C20 (lumber) and AWWA C27 (plywood).
 - 1. Use Exterior type for exterior locations and where indicated.
 - 2. Use Interior Type A, High Temperature (HT) for enclosed roof framing and where indicated.
 - 3. Use Interior Type A, unless otherwise indicated.
- B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Application: Treat all rough carpentry, unless otherwise indicated.
 - 1. Plywood backing panels.

2.2 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
 - 1. Furring.
 - 2. Grounds.
- B. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 19 percent maximum moisture content of any species.

- C. For furring strips for installing plywood or hardboard paneling, select boards with no knots capable of producing bent-over nails and damage to paneling.

2.3 PLYWOOD BACKING PANELS

- A. Equipment Backing Panels: DOC PS 1, Exterior, AC, fire-retardant treated, in thickness indicated or, if not indicated, not less than 1/2-inch (13-mm) nominal thickness.

2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
- B. Power-Driven Fasteners: NES NER-272.
- C. Wood Screws: ASME B18.6.1.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

3.2 WOOD BLOCKING INSTALLATION

- A. Install level and plumb with cut edges treated. Secure to resist anticipated loading of equipment and casework.

3.3 WOOD FURRING INSTALLATION

- A. Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work.

END OF SECTION 060110

SECTION 060120 – FINISH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Standing and Running trim.
- B. Related Sections include the following:
 - 1. Section 060110: Rough Carpentry

1.3 SUBMITTALS

- A. Submit samples and shop drawings in accordance with the General Requirements.
- B. Product Data: For each type of product indicated, including cabinet hardware and accessories.
- C. Samples:
 - 1. 6" length of each type, profile, and surface finish.
- D. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
 - 1. Indicate materials, component profiles, fastening, jointing details, and accessories.
- E. Quality Assurance: Perform finish carpentry work in accordance with recommendations of the Millwork Standards of the Architectural Woodwork Institute.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver woodwork until painting and similar operations that could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Installer shall advise Prime Contractor of temperature and humidity requirements for finish carpentry installation areas. Do not install finish carpentry until a minimum of 60 deg. F and

relative humidity of 25-55 percent have been stabilized and will be maintained in installation areas.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General

1. Nominal sizes are indicated, except as shown by detailed dimensions, Provide dressed or worked and dressed lumber, as applicable, manufactured to the actual sizes as required by PS 20 or to actual sizes and patterns as shown, unless otherwise indicated.
2. Optimum Moisture Content: Kiln-dry finish carpentry woodwork to an average moisture content of 8 percent, or as otherwise recommended by applicable AWI Quality Standards for the regional climatic conditions involved.

B. Interior Finish Carpentry:

1. Standing and Running Trim: AWI Premium Grade
 - a. Species: Match Existing
 - b. Finish: Match Existing
2. Miscellaneous lumber for blocking, furring: Provide materials and comply with provisions specified in Section 06100.
3. Particleboard: NPA I-M-2
4. Hardboard: AHA A135.4

C. Fasteners and Anchorages:

1. Provide all nails, spikes, screws, lag screws, steel angles, hangers, bolts, nuts, washers, and other anchoring devices of the type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible, and complying with applicable Federal Specifications.

2.2 FABRICATION

- A. Fabricate Interior Standing and Running Trim to dimensions, profiles, and details indicated for intended use in accordance with AWI Section 300, Premium Grade

PART 3 - EXECUTION

3.1 PREPARATION

- A. Field Measurements: Before proceeding with woodwork required to be fitted to other construction, obtain measurements and verify dimensions to assure accurate fit.
- B. Preparation of Surfaces: Deliver materials and fabrications to Section 09912 contractor for back priming and/or pre-finishing prior to installation. Back prime wood materials for painted finish exposed to moisture and high relative humidity.
- C. Condition wood materials to average prevailing humidity conditions in installation areas prior to installing.

3.2 INSTALLATION

- A. Quality Standard: Install standing and running trim, interior frames and jambs, and other finish carpentry work to comply with AWI section 1700 for the same grade specified in Part 2 of this section for type of finish carpentry work involved.
- B. Apply all nails, spikes, screws, lag screws, steel angles, hangers, bolts, nuts, washers, anchors, and other items of hardware required for the assembling and securing of this work. Use best suitable type of nails and anchors for various types of carpentry. Use annular nails and other special nails where required. Correct and defective work caused by inadequate nailing, holding power or nails used and the use of nails which result in the staining of other materials. All finish work shall have nails set for puttying. Recess all screws and bolt heads and provide flush hardwood plugs where exposed.
- C. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, not adequately seasoned or too small to fabricate work with minimum of joints or optimum jointing arrangements, or which are of defective manufacturer with respect to surfaces, sizes or patterns.
- D. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8 inch in 8 feet for plumb and level countertops; and with 1/16 inch maximum offset in flush adjoining surfaces and 1/8 inch maximum offsets in revealed adjoining surfaces.
- E. Scribe and cut work to fit adjoining work, and refinish cut surfaces or repair damaged finish at cuts.
- F. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum lengths of lumber available) to the greatest extent possible. Stagger joints in adjacent and related members. Cope at returns, miter at corners, to produce tight fitting joints with full surface contact throughout length of joint. Use scarf joints for end-to-end joints. Use construction adhesives of type recommended by manufacturer for use intended. Sort trim to achieve close match of graining for each assembly, especially if splicing is required.
- G. Countertops: Cut, fit, scribe and secure in place.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective finish carpentry work wherever possible to eliminate defects functionally and visually; where not possible to repair properly, replace woodwork at no cost to Owner. Adjust joinery for uniform appearance.
- B. Cleaning: Clean all work of this Section prior to acceptance by Owner, including installed work furnished by others.
- C. Adjustment: Adjust all hardware for proper operation.
- D. Protection: Protect all work of this Section until acceptance by Owner. Advise GC of final protection and maintained conditions necessary to ensure that work will be without damage or deterioration at time of acceptance.

3.4 END OF SECTION 060120

SECTION 064000 - ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Plastic-laminate Panels.
 - 2. Wood trim at front of Transaction Counter.
- B. Related Sections include the following:
 - 1. Section 061000: Rough Carpentry
 - 2. Section 062000: Finish Carpentry

1.3 DEFINITIONS

- A. Exposed Surfaces: Exposed surfaces shall include portions of casework surfaces visible when doors and drawers are closed; bottoms of casework 48 inches or more above finish floor; tops of casework less than 72 inches above finish floor; visible surfaces in open casework or behind glass doors; portions of casework visible when fixed equipment is installed; and front edges of cabinet body members visible through a gap greater than 1/8 inch with doors and drawers closed
 - 1. For the purpose of finishing, both sides of cabinet doors shall be considered "exposed"
- B. Semi-Exposed Surfaces: Semi-exposed surfaces shall include portions of casework surfaces visible when doors and drawers are in the open position; bottoms of casework are between 30 inches and up to 48 inches above finish floor; and front edges of shelving behind doors.
- C. Concealed Surfaces: Concealed surfaces shall include portions of casework surfaces not visible after installation; bottoms of casework less than 30 inches above finish floor; tops of casework over 72 inches above finish floor; stretchers, blocking and components are concealed by drawers; and corners are created by tall, wall, or base cabinets, and shall be non-accessible.

1.4 SUBMITTALS

- A. Submit samples and shop drawings in accordance with the General Requirements.
- B. Product Data: For each type of product indicated, including cabinet hardware and accessories.
- C. Samples:
 - 1. For each type of Plastic Laminate, 8x8 for each type, color, and surface finish.
- D. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.

1. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
- E. Quality Submittals:
1. Product Data: For installation adhesives, including printed statement of VOC content.
 2. Product Data:
 - a. Composite wood manufacturer's product data for each composite wood product used indicating that the bonding agent contains no urea formaldehyde.
 - b. For each adhesive used, documentation indicating that the adhesive contains no urea formaldehyde.
 3. Quality Certification: Submit woodwork fabricator's certification, stating that fabricated woodwork complies with quality grades and other requirements indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver woodwork until painting and similar operations that could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being enclosed, and indicate measurements on Shop Drawings.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General:
1. Provide materials that comply with requirements of the AWI quality standard for each type of woodwork and quality grade indicated and, where the following products are part of interior woodwork, with requirements of the referenced product standards that apply to product characteristics indicated.
- B. Optimum moisture content: kin-dry architectural woodwork to an average moisture content of 8 percent or as otherwise recommended by applicable Quality Standards for the regional climatic conditions involved.
- C. Softwood Plywood: APA A-B EXT-Group 1
- D. Fiberboard: Medium density complying with ANSI A208.2
- E. Fasteners and Anchorages: Provide all nails, screws, bolts, nuts, washers, and other anchoring devices of the type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible, and complying with applicable Federal Specifications.

- F. Miscellaneous lumber for blocking, furring, cabinet bases: Provide materials and comply with provisions as specified in Section 06100.

2.2 PLASTIC-LAMINATE CLAD ARCHITECTURAL PANELS

- A. Quality Standards: Comply with AWI Section 400 "Architectural Cabinets" and Section 400C "Countertops"
- B. Laminate Clad Tops:
 - 1. Grade: Custom
 - 2. Core Material: ANSI A208.1, Type 2-M-2 particleboard (1 inch thick, unless otherwise indicated on Drawings). Provide blancing shee (BK-20) on all tops, and on all surfaces of window stools which do not have high pressure decorative laminate.
- C. Laminate Cladding: High Pressure decorative laminate complying with NEMA LD3 and as follows:
 - 1. Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - a. Manufacturer: Pionite
 - b. Pattern: MB0601-S
 - c. Color: Vermont Granite
 - 2. Horizontal Surfaces: HGS (0.048 inch nominal thickness)
 - 3. Postformed Surfaces: HGP (0.039 inch nominal thickness)
 - 4. Edge Treatment:
 - a. General: Same as laminate cladding on horizontal surfaces.
 - b. Transaction Counter: Red oak, clear, plain sawn.

2.3 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.
- C. Adhesives, General: Do not use adhesives that contain urea formaldehyde.
- D. VOC Limits for Installation Adhesives and Glues: Use installation adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - 1. Wood Glues: 30 g/L.
 - 2. Contact Adhesive: 250 g/L.
- E. Adhesive for Bonding Plastic Laminate: Water based contact cement, white glue PVA.
 - 1. Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.4 FABRICATION

- A. General:
 - 1. Fabricate architectural woodwork to dimensions, profiles, and details indicated with openings and mortises precut, where possible, to receive hardware and other items and work.

2. Complete fabrication, assembly, finishing, hardware application, and other work before shipment to project site to maximum extent possible. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Precut Openings: Fabricate architectural woodwork with pre-cut openings, where possible, to receive hardware, appliances, plumbing fixtures, electrical work and similar items. Locate openings accurately from on-site dimensions and use templates or roughing-in diagrams for proper size and shape. Smooth edges of cutoffs and, where located in countertops and similar exposures seal edges of cutouts with a water-resistant coating.
 - C. Measurements: Before proceeding with fabrication of woodwork required to be fitted to other construction, obtain field measurements and verify dimensions and shop drawing details as required for accurate fit.

2.5 JOINERY AND FASTENING OF CASE BODY MEMBERS

- A. Fixed case body members (shelves, bottoms, tops and rails which are fastened to sides, ends and dividers) shall be joined using concealed dado, or dowel matched or interlocking mechanical fasteners. Where the concealed dado and dowel methods are employed, cases shall be assembled utilizing glue and pressure. The dado method must be reinforced with blind nailing or screwing.
- B. No nails, screws or other fastenings may be visible on exposed surfaces. On semi-exposed surfaces, mechanical fasteners may be visible.
- C. Rails or top panels must be provided where case will have separate top in order to permit concealed fastening of the separate top through such rails.
- D. Where not in violation of design, surfaces of intersecting body members may be set back not exceed 1/8 inch, provided setback is constant.

2.6 PREPERATION FOR FINISHING

- A. Shop Finishing: Set exposed nails and screws. Apply wood filler in exposed nail and screw. Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing architectural woodwork edge treatment, as applicable to each unit of work.
- B. General:
 1. Comply with AWI Section 1500, unless otherwise indicated. Provide finishes of same grades as items to be finished.
 2. Finish architectural woodwork at fabrication shop as specified in this Section. Defer only final touchup, cleaning and polishing until after installation.
- C. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply 2 coats to back of paneling and to end-grain surfaces. Concealed surfaces of plastic-laminate-clad woodwork do not require backpriming when surfaced with plastic laminate, backing paper, or thermoset decorative overlay.
- D. Finish System:
 1. Wood Edge treatment: AWI Finish System TR04: Conversion varnish, satin.

PART 3 - EXECUTION

3.1 General:

- A. Condition woodwork to average prevailing humidity conditions in installation areas prior to installing.

3.2 Quality Standard: Install woodwork to comply with AWI Section 1700 for the same grade specified in PART 2 of this section for type of woodwork involved.

3.3 INSTALLATION

- A. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
- B. Assemble woodwork and complete fabrication at Project site to comply with requirements for fabrication in Part 2, to extent that it was not completed in the shop.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
- D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.
- F. Panels: Install without distortion so as to fit openings properly and are accurately aligned.
- G. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.

3.4 ADJUSTING AND CLEANING

- A. Repair damaged and defective woodwork, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean woodwork on exposed and semiexposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION 064000

SECTION 083453 -- BULLET-RESISTANT DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Underwriters Laboratory, UL 752, Current Edition, Standard for Bullet-Resisting Equipment.

1.2 SUMMARY

- A. All labor, material, equipment, and services necessary to furnish and install bullet-resistant [primed-finish] [stainless] steel glazing frames to be located as shown on the construction drawings or as noted in the window schedule.

1.3 QUALITY ASSURANCE

- A. Ballistic Performance: Certification shall be furnished indicating that all materials have been tested in accordance with the appropriate test procedures.
- B. Obtain bullet-resistant components through one source from a single manufacturer.

1.4 SUBMITTALS

- A. Shop Drawings shall be submitted for approval prior to the fabrication of materials. The drawings shall include plan views, elevations, sections, and details of the proposed installation including attachment methods.
- B. Drawings shall indicate dimensions, component profiles, and material finishes.
- C. Manufacturer's warranty and product data, glazing product information, and installation instructions shall be included with the submittal package.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Pack bullet-resistant glazing frames in wood crates for shipment. Glazing should be crated separately, unless frames are factory glazed.
- B. All items shall be delivered, stored, and handled in a manner that will not damage or deform.
- C. Abraded, scarred, or rusty areas shall be cleaned, repaired, or replaced immediately upon detection. Damaged items that cannot be restored to like-new condition shall be replaced.
- D. Store crated glazing frames in a dry location on platforms or pallets that are adequately ventilated, free of dust, water, and other contaminants, and stored in a manner that permits easy access for inspection and handling.

1.6 JOB CONDITIONS

- A. Field Measurements: Contractor shall verify finished openings by field measurement prior to fabrication and indicate measurements on Shop Drawings.
1. Established Dimensions: If field measurements cannot be made without causing a delay, establish opening dimensions and proceed with fabrication of bullet-resistant frames without field measurements. Coordinate construction to insure that the actual finished-opening dimensions correspond to the established dimensions.

1.7 WARRANTY

- A. Warranty Period: Glazing frames shall be warranted for a period of 12 months from the date of substantial completion.
- B. Warranty is limited to material defects or workmanship and offered to North American Bullet Proof direct customers. Warranty is limited to replacement of product or refund of invoice price at North American Bullet Proof's discretion. Installation, shipping or other costs are not included in this warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design:
1. North American Bullet Proof, 106 Guadalupe Drive, P.O. Box 628, Cibolo, TX 78108. Phone 888.746.8427, Fax 210.225.0984

2.2 MATERIALS

- A. Bullet-Resistant Primed-Finish Steel Doors and Doorframes:
1. Model – Shotgard[®] Series Bullet-Resistant SDR Primed-Finish Steel Door and Primed-Finish Steel Doorframe.
 2. Frames, doors, and glazing shall be supplied to provide a complete assembly.
 3. Ballistic Resistance Performance Level: U.L. 752 Level-3.
 4. SDR integral door/frame system to provide ballistic overlap protection.
 5. DR Primed-Finish Steel Door to be constructed of 10-gauge steel skins over tube-steel skeleton with mitered, continuously welded corners.
 6. SDR Primed-Finish Steel Doorframe to be constructed of 12-gauge steel with mitered, continuously welded corners.
 7. Frame Profile: 2" x 5½" bolt-in frame, lined with steel as required for ballistic protection level.
 8. Viewlite to be a 4" x 22" visual opening; performance level of the glazing to match the performance level of the door.
 9. Door to be pre-hung with 1100-lb. rated continuous-gear hinge with security pins.
 10. Door and frame to be prepped for mortise lock and standard strike.
 11. Testing: Independently tested to U.L. 752 to level specified.
- B. Bullet-Resistant Wood Veneer Doors and Steel Doorframes:
1. Model – Shotgard[®] Series Bullet-Resistant WDR Primed-Finish Steel Door and Primed-Finish Steel Doorframe
 2. Frames, doors, and [glazing] shall be supplied to provide a complete assembly.
 3. Ballistic Resistance Performance Level: U.L. 752 Level-3.
 4. WDR integral door/frame system to provide ballistic overlap protection.

5. WDR wood door to be constructed of 1/8" (species)-veneered plywood door skins, with matching door edges, over Shotgard® fiberglass core with honeycomb filler panels and medium-density fiberboard panels for hardware reinforcement. Appearance to match non-bullet resistant commercial door.
6. WDR Primed-Finish Steel Doorframe to be constructed of 12-gauge steel with mitered, continuously welded corners.
7. Frame Profile: 2" x 5 1/2" bolt-in frame, lined with steel as required for ballistic protection level.
8. Viewlite to be a 4" x 22" visual opening; performance level of the glazing to match the performance level of the door.
9. Door to be pre-hung with 1100-lb. rated continuous-gear hinge with security pins.
10. Door and frame to be prepped for mortise lock and standard strike.
11. Testing: Independently tested to U.L. 752 to level specified.

2.3 COMPONENTS

- A. Hinge: The SDR steel door shall be supplied pre-hung, with an 1100-lb. rated continuous-gear hinge with tamper-resistant dogging pins.
- B. Silencers: Silencers shall be provided at the strike-jamb stop.
- C. Viewlite Glazing: Glazing material shall be factory-fabricated units designed to be bullet-resistant to the specified test standard. Glazing material shall be glass-clad polycarbonate with a low-spall protected interior face. Low-spall interior face shall meet or exceed requirements for spall resistance defined in U.L. 752.]
- D. Setting Blocks: provide 1/4" x 1" x 4" rubber setting blocks for installation at the sill.
- E. Anchor-hole Plugs: Provide decorative plugs to cover anchor-access holes.
- F. Anchors and Sealants to be provided by installer.

2.4 FABRICATION

- A. General: Fabricate bullet-resistant glazing frames to comply with indicated standards. Include a complete system for assembly and installation of bullet-resistant glazing frames.
 1. Provide frames that are capable of being reglazed from the secure side without dismantling the threat side of the frame.
 2. Prepare frames for glazing in the field.
 3. Steel shall be free of scale, pitting, coil breaks, and finish work shall be neat and free of defects.
- B. Framing: Miter the corners the full depth of the frame. Weld and dress smooth. No body filler to be used.
 1. Install armor inside the frame in the thickness necessary for the ballistic resistance level indicated.
 2. Prep frame for standard 4 7/8" ANSI strike at 40 inches above finished floor.
 3. Provide spreader at bottom of doorframe for protection during shipping, and for easier, cleaner installation.
- C. Viewlite Stops: Provide a one-piece removable glazing stop, two-inch depth, made from 12-gauge steel, on the secure side of the frame attached with machine screws.
 1. Corners are to be mitered, welded, and dressed smooth.
 2. Stops shall be installed in a location appropriate for the glazing thickness.
 3. Wood moulding to match door skin shall be provided to cover steel stops with decorative screw covers at secure side stop.
 4. Finish glazing stops to match door finish.

5. The threat-side glazing stop shall be level 3.
- D. WDR: Fabricate wood doors with 1/8" Oak-veneered plywood door skins to match building standard.
 1. Proprietary adhesive to be used to bond door skins to door structure.
 2. Prep door for cylinder lockset to line-up with strike.
- E. SDR: Fabricate steel doors with 10 gauge steel door skins.
 1. Proprietary adhesive to be used to bond door skins to door structure.
 2. Prep door for cylinder lockset to line-up with strike.
 3. Hinge reinforcement: Provide 3/16" steel continuous hinge reinforcement, welded to door edge.
- F. Hardware: Templates are to be provided to the door manufacturer by the hardware contractor. The installing contractor shall perform drilling and tapping for surface mounted hardware at the jobsite.
- G. Metal Protection: Separate dissimilar metals to protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
- H. Any openings in glazing for speak-thru devices are to be factory-cut.
- I. No field alterations to the construction of the units fabricated under the specified standards shall be allowed unless approved by the manufacturer.

2.5 FINISHES

- A. Provide shop-applied primer after fabrication:
 1. Primer: Rust inhibitive paint suitable as a base for finish paints.
 2. Prior to shop painting, surfaces shall be cleaned with solvents to remove any grease or oil, and with power wire-brushing or sandblasting to remove loose rust, loose mill scale and other foreign substances.
 3. Field paint and finish in accordance with, and as directed in, the Finish Section 9 of these Specifications

2.6 LABELING

- A. Bullet-resistant glazing frames shall be plainly and permanently labeled. The label shall be compatible with finishes. The label shall be visible only on the secure side, after installation, and shall include:
 1. Manufacturer's name or identifying symbol
 2. Model Number
 3. Date of manufacture by month and year. This may be done through use of lot number or other traceable code.
 4. Correct mounting position including threat side and secure side (by removable label on glazing material).
 5. Code indicating bullet-resistant rating and test standard used (by removable label on glazing material).

PART 3 - EXECUTION

3.1 INSPECTION

- A. Upon delivery, the contractor shall open the crate and inspect the contents for freight damage. If damaged, notify the freight company of the claim. Check the packing list to make sure all items are present. If any items are missing, notify North American Bullet Proof.
- B. Prior to commencing installation, the contractor shall examine all areas to receive the bullet-resistant glazing frames to ensure that they are ready for installation. Components shall be checked and corrected for racking, twisting, and other malformation prior to installation. All surfaces and connections shall be examined for damage prior to installation.
- C. The contractor shall verify that the glazing frames comply with indicated requirements for type, size, and location.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. The Contractor shall field verify dimensions of the finished openings. EXTW bolt-in frames must be installed in a plumb, level, and square finished opening. The finished opening must be ¼" larger in width and height than the window frame.

3.3 INSTALLATION

- A. Install: Place the glazing frame unit in the opening, centered on wall. Mark the anchor holes. Remove the frame and drill the anchor holes. Install the frame and shim for plumb/level. Secure with anchors. Note: all anchors provided by installer. Install the anchor-hole plugs.
- B. Finish: Seal all joints in and around the frame (sealant by installer). Sand and finish the frame. Wait until all sealants and paint are cured before the next step.
- C. Glazing: (Best done by professional glass installer). Identify the secure and threat sides of the glazing. Remove any protective cover from the glazing. Install the aluminum glazing-cap, with setting blocks, at the exposed glazing edge along the bottom of the glazing. Install the rubber blocks at equal points along the sides of the glazing. Install the glazing, making sure rubber blocks fit properly. Install the removable stop using the screws provided with the window unit.

3.4 CLEAN

- A. Provide glass cleaning kit and instructions.
- B. Use care and strictly follow instructions included with shipment for cleaning the glazing.

END OF SECTION 085653

SECTION 085653 – BULLET-RESISTANT TRANSACTION WINDOW FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Underwriters Laboratory, UL 752, Current Edition, Standard for Bullet-Resisting Equipment.

1.2 SUMMARY

- A. All labor, material, equipment, and services necessary to furnish and install bullet-resistant [primed-finish] [stainless] steel glazing frames to be located as shown on the construction drawings or as noted in the window schedule.

1.3 QUALITY ASSURANCE

- A. Ballistic Performance: Certification shall be furnished indicating that all materials have been tested in accordance with the appropriate test procedures.
- B. Obtain bullet-resistant components through one source from a single manufacturer.

1.4 SUBMITTALS

- A. Shop Drawings shall be submitted for approval prior to the fabrication of materials. The drawings shall include plan views, elevations, sections, and details of the proposed installation including attachment methods.
- B. Drawings shall indicate dimensions, component profiles, and material finishes.
- C. Manufacturer's warranty and product data, glazing product information, and installation instructions shall be included with the submittal package.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Pack bullet-resistant glazing frames in wood crates for shipment. Glazing should be crated separately, unless frames are factory glazed.
- B. All items shall be delivered, stored, and handled in a manner that will not damage or deform.
- C. Abraded, scarred, or rusty areas shall be cleaned, repaired, or replaced immediately upon detection. Damaged items that cannot be restored to like-new condition shall be replaced.
- D. Store crated glazing frames in a dry location on platforms or pallets that are adequately ventilated, free of dust, water, and other contaminants, and stored in a manner that permits easy access for inspection and handling.

1.6 JOB CONDITIONS

- A. Field Measurements: Contractor shall verify finished openings by field measurement prior to fabrication and indicate measurements on Shop Drawings.
 - 1. Established Dimensions: If field measurements cannot be made without causing a delay, establish opening dimensions and proceed with fabrication of bullet-resistant frames without field measurements. Coordinate construction to insure that the actual finished-opening dimensions correspond to the established dimensions.

1.7 WARRANTY

- A. Warranty Period: Glazing frames shall be warranted for a period of 12 months from the date of substantial completion.
- B. Warranty is limited to material defects or workmanship and offered to North American Bullet Proof direct customers. Warranty is limited to replacement of product or refund of invoice price at North American Bullet Proof's discretion. Installation, shipping or other costs are not included in this warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design:
 - 1. North American Bullet Proof, 106 Guadalupe Drive, P.O. Box 628, Cibolo, TX 78108. Phone 888.746.8427, Fax 210.225.0984

2.2 MATERIALS

- A. Bullet-Resistant Stainless Steel Glazing Frames:
 - 1. Model – Shotgard® Series Bullet-Resistant EXTW-SS, Stainless Steel Transaction Window
 - 2. Frames and glazing shall be supplied to provide a complete assembly.
 - 3. Ballistic Resistance Performance Level: U.L. 752 Level 3
 - 4. EXTW-SS Stainless Steel Transaction Window to be constructed of 14-gauge stainless steel with mitered, continuously welded corners.
 - 5. Frame Profile: (Levels 3) 2" x 5½" bolt-in frame, lined with steel as required for ballistic protection level, with 1¼" x 1¼" removable stop.
 - 6. Testing: Independently tested to U.L. 752 to the specified level.

2.3 COMPONENTS

- A. Glazing: Glazing shall be field installed. Glazing material shall be factory-fabricated units designed to be bullet-resistant to the specified level. Glazing material shall be glass-clad polycarbonate with a no-spall protected interior face. No-spall interior face shall meet or exceed requirements for spall resistance defined in U.L. 752
- B. Glazing Cap: Provide an aluminum channel, sized appropriately for glazing thickness, at the bottom edge of glazing to provide cover for exposed glazing edge.
- C. Setting Blocks: provide ½" x 1" x 4" rubber setting blocks for installation at the sill.

- D. EXTW Natural-Voice Transmission Blocks: Provide 2¼" rubber blocks to fit securely on glazing. Blocks are to be located at third-points along the vertical edge of the glazing (and horizontal edge for frames larger than 4'-0" wide) to allow for natural voice transmission around glazing.
- E. Anchor-hole Plugs: Provide decorative plugs to cover anchor-access holes.
- F. Anchors and Sealants to be provided by installer.

2.4 ACCESSORIES

- A. Counter: Provide Corian® counter.
 - 1. Dimensions: (frame width) x 12" deep x 2½" high.
 - 2. Counter to have integral 12" x 8" deal tray.
 - 3. Provide matte finish.
 - 4. Color selection: to be finalized by Owner.
 - 5. Bolt the glazing frame to the counter using stainless steel base plates.
- B. Deal Tray: MDT-812 Series Stainless Steel Deal Tray
 - 1. Formed from 16-gauge stainless steel with a curved shape and exposed flanges for recessed installation into a horizontal surface.
 - 2. Nominal size: 16" wide by 8" deep by 1¼" high
 - 3. Provide liner for Level 3 ballistic resistance.

2.5 FABRICATION

- A. General: Fabricate bullet-resistant glazing frames to comply with indicated standards. Include a complete system for assembly and installation of bullet-resistant glazing frames.
 - 1. Provide frames that are capable of being reglazed from the secure side without dismantling the threat side of the frame.
 - 2. Prepare frames for glazing in the field.
 - 3. Steel shall be free of scale, pitting, coil breaks, and finish work shall be neat and free of defects.
- B. Framing: Miter the corners the full depth of the frame. Weld and dress smooth. No body filler to be used.
 - 1. Install armor inside the frame in the thickness necessary for the ballistic resistance level indicated.
 - 2. Weld [12 gauge steel] [14 gauge stainless steel] anchor plates, evenly spaced along each side of frame, not to exceed 24-inches O.C.
- C. Glazing Stops: Provide a one-piece removable glazing stop, .120-inch minimum wall thickness, on the secure side of the frame attached with machine screws.
 - 1. Corners are to be mitered, welded, and dressed smooth.
 - 2. Stops shall be installed in a location appropriate for the glazing thickness.
 - 3. Plugs shall be provided at the open ends of glazing stop legs to provide a finished appearance and prevent scratching of the counter surface.
 - 4. Finish glazing stops to match frame finish.
 - 5. The threat-side glazing stop shall be integral to the glazing frame.
- D. Welding: Miter-cut corners to receive full weld and finish. No body filler to be used.
- E. Metal Protection: Separate dissimilar metals to protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
- F. Any openings in glazing for speak-thru devices are to be factory-cut.

- G. No field alterations to the construction of the units fabricated under the specified standards shall be allowed unless approved by the manufacturer.

2.6 FINISHES

- A. All stainless steel components to be finished to No.3 brushed finish.

2.7 LABELING

- A. Bullet-resistant glazing frames shall be plainly and permanently labeled. The label shall be compatible with finishes. The label shall be visible only on the secure side, after installation, and shall include:
 1. Manufacturer's name or identifying symbol
 2. Model Number
 3. Date of manufacture by month and year. This may be done through use of lot number or other traceable code.
 4. Correct mounting position including threat side and secure side (by removable label on glazing material).
 5. Code indicating bullet-resistant rating and test standard used (by removable label on glazing material).

PART 3 - EXECUTION

3.1 INSPECTION

- A. Upon delivery, the contractor shall open the crate and inspect the contents for freight damage. If damaged, notify the freight company of the claim. Check the packing list to make sure all items are present. If any items are missing, notify North American Bullet Proof.
- B. Prior to commencing installation, the contractor shall examine all areas to receive the bullet-resistant glazing frames to ensure that they are ready for installation. Components shall be checked and corrected for racking, twisting, and other malformation prior to installation. All surfaces and connections shall be examined for damage prior to installation.
- C. The contractor shall verify that the glazing frames comply with indicated requirements for type, size, and location.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. The Contractor shall field verify dimensions of the finished openings. EXTW bolt-in frames must be installed in a plumb, level, and square finished opening. The finished opening must be 1/4" larger in width and height than the window frame.

3.3 INSTALLATION

- A. Install: Place the glazing frame unit in the opening, centered on wall. Mark the anchor holes. Remove the frame and drill the anchor holes. Install the frame and shim for plumb/level. Secure with anchors. Note: all anchors provided by installer. Install the anchor-hole plugs.
- B. Finish: Seal all joints in and around the frame (sealant by installer). Sand and finish the frame. Wait until all sealants and paint are cured before the next step.
- C. Glazing: (Best done by professional glass installer). Identify the secure and threat sides of the glazing. Remove any protective cover from the glazing. Install the aluminum glazing-cap, with setting blocks, at the exposed glazing edge along the bottom of the glazing. Install the rubber blocks at equal points along the sides of the glazing. Install the glazing, making sure rubber blocks fit properly. Install the removable stop using the screws provided with the window unit.

3.4 CLEAN

- A. Provide glass cleaning kit and instructions.
- B. Use care and strictly follow instructions included with shipment for cleaning the glazing.

END OF SECTION 085653

1 SECTION 088100 - GLAZING

2 PART 1 - GENERAL

3 1.1 RELATED DOCUMENTS

- 4 A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and
5 Division 1 Specification Sections, apply to this Section.

6 1.2 SUMMARY

- 7 A. Section includes glazing for the following products and applications, including those specified in other
8 Sections where glazing requirements are specified by reference to this Section:

- 9
10 1. Internal Borrowed Lights

11 1.3 DEFINITIONS

- 12 A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in
13 referenced glazing publications.

- 14 B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.

15 1.4 PERFORMANCE REQUIREMENTS

- 16 A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads
17 (where applicable) without failure, including loss or glass breakage attributable to the following:
18 defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and
19 airtight; deterioration of glazing materials; or other defects in construction.

20 1.5 SUBMITTALS

- 21 A. Product Data: For each glass product and glazing material indicated.
22 B. Samples: 12 inch x 12 inch glass
23 C. Product Certificates: For glass and glazing products, from manufacturer.
24 D. Preconstruction adhesion and compatibility test report.
25 E. Warranties: Sample of special warranties.

26 1.6 QUALITY ASSURANCE

- 27 A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A
28 qualified insulating-glass manufacturer who is approved and certified by coated-glass manufacturer.

- 1 B. Installer Qualifications: A qualified installer who employs glass installers for this Project who are
2 certified under the National Glass Association's Certified Glass Installer Program.
- 3 C. Glazing Publications: Comply with published recommendations of glass product manufacturers and
4 organizations below, unless more stringent requirements are indicated. Refer to these publications for
5 glazing terms not otherwise defined in this Section or in referenced standards.
- 6 1. GANA Publications: GANA's "Glazing Manual."
7 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines
8 for Sealed Insulating Glass Units for Commercial and Residential Use."
- 9 D. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with
10 certification label of the manufacturer. Label shall indicate manufacturer's name, type of glass, thickness,
11 and safety glazing standard with which glass complies.
- 12 E. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one
13 component lite of units with appropriate certification label of IGCC.

14 1.7 DELIVERY, STORAGE, AND HANDLING

- 15 A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and
16 glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- 17 B. Comply with insulating-glass manufacturer's written recommendations for venting and sealing units to
18 avoid hermetic seal ruptures due to altitude change.

19 1.8 WARRANTY

- 20 A. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form in which insulating-
21 glass manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty
22 period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not
23 attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's
24 written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior
25 surfaces of glass.
- 26 1. Warranty Period: 10 years from date of Substantial Completion.

27 **PART 2 - PRODUCTS**

28 2.1 GLASS PRODUCTS, GENERAL

- 29 A. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lights in thicknesses as
30 needed to comply with requirements indicated.
31 1. All interior glass shall be tempered.

32 2.2 GLASS PRODUCTS

- 33 A. Safety Glass, Type I, Class 1, Quality Q3, Kind FT- fully tempered, 1/4 inch thick.

- 1 2.3 GLAZING GASKETS
- 2 A. Dense Compression Gaskets: Molded or extruded dense EPDM or neoprene gaskets, complying with
3 ASTM C 864, of profile and hardness required to maintain watertight seal.
- 4 2.4 GLAZING SEALANTS
- 5 A. General: Provide products of type indicated, complying with the following requirements.
- 6 1. Compatibility: Provide glazing sealants that are compatible with one another and with other
7 materials they will contact, including glass products, and glazing channel substrates, under
8 conditions of service and application, as demonstrated by sealant manufacturer based on testing
9 and field experience.
- 10 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting
11 glazing sealants suitable for applications indicated and for conditions existing at time of
12 installation.
- 13 3. Colors of Exposed Glazing Sealants: As selected by A/E from manufacturer's full range of colors.
- 14 B. Elastomeric Glazing Sealant: Equivalent to Tremco Proglaze one-part, moisture curing, silicone
15 elastomeric sealant complying with ASTM C 920, FS-TT-S-001543A, FS-TT-S-00230C.
- 16 2.5 GLAZING TAPES
- 17 A. Back-Bedding Mastic Glazing Tapes: Performed, butyl-based elastomeric tape with a solids content of
18 100 percent; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer
19 rod as recommended in writing by tape and glass manufacturers for application indicated; packaged on
20 rolls with a release paper backing; and complying with ASTM C 1281 and AAMA 800 for products
21 indicated below.
- 22 1. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- 23 2.6 MISCELLANEOUS GLAZING MATERIALS
- 24 A. General: Provide products of material, size, and shape complying with referenced glazing standard,
25 requirements of manufacturers of glass and other glazing materials for application indicated, and with a
26 proven record of compatibility with surfaces contacted in installation.
- 27 B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- 28 C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- 29 D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to
30 maintain glass lites in place for installation indicated.
- 31 E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- 32 2.7 FABRICATION OF GLAZING UNITS
- 33 A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face
34 clearances, edge and surface conditions, and bite complying with written instructions of product
35 manufacturer and referenced glazing publications, to comply with system performance requirements.

1 B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight
2 chamfers at junctions of edges and faces.

3 C. Grind smooth and polish exposed glass edges and corners.

4 **PART 3 - EXECUTION**

5 3.1 COORDINATION

6 A. Coordinate the work of this Section with Section 08210 contractors.

7 3.2 EXAMINATION

8 A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:

- 9 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at
10 corners.
11 2. Presence and functioning of weep systems.
12 3. Minimum required face and edge clearances.
13 4. Effective sealing between joints of glass-framing members.

14 B. Proceed with installation only after unsatisfactory conditions have been corrected.

15 3.3 PREPARATION

16 A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove
17 coatings not firmly bonded to substrates.

18 B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that
19 exterior and interior surfaces are readily identifiable. Do not use materials that will leave visible marks in
20 the completed work.

21 3.4 GLAZING

22 A. General:

- 23 1. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other
24 glazing materials, unless more stringent requirements are indicated, including those in referenced
25 glazing publications.
26 2. Adjust glazing channel dimensions as required by Project conditions during installation to provide
27 necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with
28 reasonable tolerances.
29 3. Protect glass edges from damage during handling and installation. Remove damaged glass from
30 Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or
31 other imperfections that, when installed, could weaken glass and impair performance and
32 appearance.
33 4. Apply primers to joint surfaces where required for adhesion of sealants, as determined by
34 preconstruction testing.
35 5. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing
36 publications, unless otherwise required by glass manufacturer. Set blocks in thin course of
37 compatible sealant suitable for heel bead.

- 1 6. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- 2 7. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
- 3 a. Locate spacers directly opposite each other on both inside and outside faces of glass.
- 4 Install correct size and spacing to preserve required face clearances, unless gaskets and
- 5 glazing tapes are used that have demonstrated ability to maintain required face clearances
- 6 and to comply with system performance requirements.
- 7 b. Provide 1/8-inch (3-mm) minimum bite of spacers on glass and use thickness equal to
- 8 sealant width. With glazing tape, use thickness slightly less than final compressed
- 9 thickness of tape.
- 10 8. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in
- 11 glazing channel, as recommended in writing by glass manufacturer and according to requirements
- 12 in referenced glazing publications.
- 13 9. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- 14 10. Set glass lites with proper orientation so that coatings face exterior or interior as specified.

15 3.5 TAPE GLAZING

- 16 A. Dry/Dry:
- 17 1. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush
 - 18 with or protrude slightly above sightline of stops.
 - 19 2. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to
 - 20 make them fit opening.
 - 21 3. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover
 - 22 horizontal framing joints by applying tapes to jambs and then to heads and sills.
 - 23 4. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal
 - 24 joints in tapes with compatible sealant approved by tape manufacturer.
 - 25 5. Do not remove release paper from tape until just before each glazing unit is installed.
 - 26 6. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense
 - 27 compression gaskets formed and installed to lock in place against faces of removable stops. Start
 - 28 gasket applications at corners and work towards centers of openings.

29 3.6 CLEANING AND PROTECTION

- 30 A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to
- 31 framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels and
- 32 clean surfaces.
- 33 B. Protect glass from contact with contaminating substances resulting from construction operations. If,
- 34 despite such protection, contaminating substances do come into contact with glass, remove substances
- 35 immediately as recommended in writing by glass manufacturer.
- 36 C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent
- 37 intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits,
- 38 or stains; remove as recommended in writing by glass manufacturer.
- 39 D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural
- 40 causes, accidents, and vandalism, during construction period.
- 41 E. Wash glass on both exposed surfaces in each area of Project not more than four days before date
- 42 scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in
- 43 writing by glass manufacturer.

1 END OF SECTION 08810

SECTION 092116 - GYPSUM BOARD ASSEMBLIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Interior gypsum wallboard.
 - 2. Non-load-bearing steel framing.

1.3 DEFINITIONS

- A. Gypsum Board Terminology: Refer to ASTM C 11 for definitions of terms for gypsum board assemblies not defined in this Section or in other referenced standards.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show locations, fabrication, and installation of control and expansion joints including plans, elevations, sections, details of components, and attachments to other units of Work.

1.5 QUALITY ASSURANCE

- A. Sound Transmission Characteristics: For gypsum board assemblies with STC ratings, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.
 - 1. STC-Rated Assemblies: Indicated by design designations from GA-600, "Fire Resistance Design Manual."

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer or supplier.
- B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Stack gypsum panels flat to prevent sagging.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Steel Framing and Furring:
 - a. Dietrich Industries, Inc.
 - b. National Gypsum Company.
 - c. Unimast, Inc.
 - 2. Gypsum Board and Related Products:
 - a. G-P Gypsum Corp.
 - b. Certaineed ProRoc.
 - c. United States Gypsum Co.

2.2 STEEL PARTITION FRAMING

- A. Components, General: As follows:
 - 1. Comply with ASTM C 754 for conditions indicated.
 - 2. Steel Sheet Components: Complying with ASTM C 645 requirements for metal and with ASTM A 653/A 653M, G40, hot-dip galvanized zinc coating.
- B. Steel Studs and Runners: ASTM C 645.
 - 1. Minimum Base Metal Thickness: 0.027 inch (22 gauge).
 - 2. Deflection Limit: L/240, unless otherwise indicated.
 - 3. Depth and Spacing: As indicated.
- C. Cold-Rolled Channel Bridging: 0.0538-inch bare steel thickness, with minimum 1/2-inch- wide flange.
 - 1. Depth: 1-1/2 inches, unless otherwise indicated.
 - 2. Clip Angle: 1-1/2 by 1-1/2 inch, 0.068-inch- thick, galvanized steel.
- D. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

2.3 INTERIOR GYPSUM WALLBOARD

- A. Panel Size: Provide in maximum lengths and widths available that will minimize joints in each area and correspond with support system indicated.
- B. Gypsum Wallboard: ASTM C 36, 100 percent post-industrial recycled content (synthetic) gypsum shall be used to manufacture the board materials. The synthetic gypsum shall be a byproduct of the flue gas desulfurization (FGD) process, which removes sulfur dioxide from the emissions of coal-burning electrical power plants. One local source of the gypsum board materials may be obtained from the USG Gypsum Plant in East Chicago, IN or GP Gypsum, Wheatfield, IN.
 - 1. Regular Type:
 - a. Thickness: 5/8 inch, unless otherwise indicated.

- b. Long Edges: Tapered.
- c. Location: As indicated.

2.4 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
 - 1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
 - 2. Shapes:
 - a. Cornerbead: Use at outside corners, unless otherwise indicated.
 - b. L-Bead: L-shaped; exposed long leg receives joint compound.
 - c. Expansion (Control) Joints.

2.5 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475.
- B. Joint Tape:
 - 1. Interior Gypsum Wallboard: Paper.
 - 2. Tile Backing Panels: As recommended by panel manufacturer.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
 - 3. Fill Coat: For second coat, use setting-type, sandable topping compound.
 - 4. Finish Coat: For third coat, use drying-type, all-purpose compound.
 - 5. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound.
- D. Joint Compound for Tile Backing Panels:
 - 1. Cementitious Backer Units: As recommended by manufacturer.

2.6 ACOUSTICAL SEALANT

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following. Refer to Division 7 Section "Joint Sealants" for applicable general requirements.
 - 1. Acoustical Sealant for Exposed and Concealed Joints:
 - a. Pecora Corp.; AC-20 FTR Acoustical and Insulation Sealant.
 - b. United States Gypsum Co.; SHEETROCK Acoustical Sealant.
- B. Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining, latex sealant complying with ASTM C 834 that effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.

2.7 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.

- B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
 - 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 - 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
- C. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
 - 1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Suspended Ceilings: Coordinate installation of ceiling suspension systems with installation of overhead structure to ensure that inserts and other provisions for anchorages to building structure have been installed to receive ceiling hangers at spacing required to support ceilings and that hangers will develop their full strength.
 - 1. Furnish concrete inserts and other devices indicated to other trades for installation in advance of time needed for coordination and construction.

3.3 INSTALLING STEEL FRAMING, GENERAL

- A. Installation Standards: ASTM C 754, and ASTM C 840 requirements that apply to framing installation.
- B. Install supplementary framing, blocking, and bracing at terminations in gypsum board assemblies to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Comply with details indicated and with gypsum board manufacturer's written recommendations or, if none available, with United States Gypsum's "Gypsum Construction Handbook."
- C. Isolate steel framing from building structure at locations indicated to prevent transfer of loading imposed by structural movement.
- D. Do not bridge building control and expansion joints with steel framing or furring members. Frame both sides of joints independently.

3.4 INSTALLING STEEL PARTITION

- A. Install tracks (runners) at floors, ceilings, and structural walls and columns where gypsum board assemblies abut other construction.
 - 1. Where studs are installed directly against exterior walls, install asphalt-felt isolation strip between studs and wall.

- B. Extend partition framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing over frames for doors and openings and frame around ducts penetrating partitions above ceiling to provide support for gypsum board.
 - 1. Cut studs 1/2 inch short of full height to provide perimeter relief.
- C. Install steel studs so flanges point in the same direction and leading edge or end of each panel can be attached to open (unsupported) edges of stud flanges first.
- D. Frame door openings to comply with GA-600 and with gypsum board manufacturer's applicable written recommendations, unless otherwise indicated. Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
 - 1. Install two studs at each jamb, unless otherwise indicated.
 - 2. Extend jamb studs through suspended ceilings and attach to underside of top plate.
- E. Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.

3.5 APPLYING AND FINISHING PANELS, GENERAL

- A. Gypsum Board Application and Finishing Standards: ASTM C 840 and GA-216.
- B. Install sound attenuation blankets before installing gypsum panels, unless blankets are readily installed after panels have been installed on one side.
- C. Install ceiling board panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in the central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- D. Install gypsum panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- E. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- F. Attach gypsum panels to steel studs so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
- G. Attach gypsum panels to framing provided at openings and cutouts.
- H. Form control and expansion joints with space between edges of adjoining gypsum panels.
- I. Cover both faces of steel stud partition framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
 - 1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect open concrete coffers, concrete joists, and other structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by coffers, joists, and other structural members; allow 1/4- to 3/8-inch- wide joints to install sealant.

- J. Isolate perimeter of non-load-bearing gypsum board partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- wide spaces at these locations, and trim edges with U-bead edge trim where edges of gypsum panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- K. STC-Rated Assemblies: Seal construction at perimeters, behind control and expansion joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations. Comply with ASTM C 919 and manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through gypsum board assemblies, including sealing partitions above acoustical ceilings.
- L. Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's written recommendations.
- M. Space fasteners in panels that are tile substrates a maximum of 8 inches o.c.

3.6 PANEL APPLICATION METHODS

- A. Single-Layer Application:
 1. On ceilings, apply gypsum panels before wall/partition board application to the greatest extent possible and at right angles to framing, unless otherwise indicated.
 2. On partitions/walls, apply gypsum panels vertically (parallel to framing), unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of board.
 - b. At stairwells and other high walls, install panels horizontally, unless otherwise indicated or required by fire-resistance-rated assembly.
 3. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
- B. Single-Layer Fastening Methods: Apply gypsum panels to supports with steel drill screws.

3.7 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.

3.8 FINISHING GYPSUM BOARD ASSEMBLIES

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below, according to ASTM C 840, for locations indicated:

1. Level 1: Embed tape at joints in ceiling plenum areas, concealed areas, and where indicated, unless a higher level of finish is required for fire-resistance-rated assemblies and sound-rated assemblies.
2. Level 3 is suitable for surfaces receiving medium- or heavy-textured finishes before painting or heavy wallcoverings where lighting conditions are not critical.
 - a. Level 3: Embed tape and apply separate first and fill coats of joint compound to tape, fasteners, and trim flanges.
3. Level 4 is suitable for surfaces receiving light-textured finish wallcoverings and flat paints. It is generally the standard exposed finish.
 - a. Level 4: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges at panel surfaces that will be exposed to view, unless otherwise indicated.
4. Level 5 is suitable for surfaces receiving gloss and semigloss enamels and surfaces subject to severe lighting. It is considered a high-quality gypsum board finish.
 - a. Level 5 (For large uninterrupted surfaces where the Architect determines that Level 4 finish is unacceptable): Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges, and apply skim coat of joint compound over entire surface at extensive uninterrupted wall or ceiling surfaces including but not limited to curved walls and soffits.

E. Texture Finish: By Section 099123 contractor.

END OF SECTION 092116

SECTION 09912 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes surface preparation and the application of paint systems on the following interior substrates:
 - 1. Gypsum board.
 - 2. Hollow metal frames.
 - 3. Stain finish for wood windows and doors.
 - 4. Miscellaneous interior surfaces.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Product Data: For paints, including printed statement of VOC content and chemical components.
- B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat indicated.
 - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.
 - 2. Label each Sample for location and application area.

1.4 QUALITY ASSURANCE

- A. MPI Standards:
 - 1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
 - 2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" and "MPI Maintenance Repainting Manual" for products and paint systems indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 PROJECT CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.
- C. Before painting is started in any area, broom clean and remove excessive dust.
- D. After painting operations begin in a given area, broom cleaning will not be allowed; cleaning shall be done only with commercial vacuum cleaning equipment.
- E. Provide adequate illumination in all areas where painting operations are in progress.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer:
 - 1. Mautz

2.2 PAINT, GENERAL

- A. Provide all painting materials of the best quality and approved by the Owner. They shall bear identifying labels on the containers with the manufacturer's instructions printed thereon. Paint containers not bearing manufacturer's identifying labels or bearing identifying labels of the manufacturers not approved by the Owner will not be permitted on the project site.
- B. Paint shall not be badly settled, cakes, or thickened in the container, shall be readily dispersed with a paddle to a smooth consistency and shall have excellent application properties.
- C. Deliver paint to the job color-mixed except for tinting of undercoats and possible thinning.
- D. Tinting materials shall be recommended by the manufacturer for the particular material tinted.
- E. Insure that all mixed colors match the color selection made by the A/E prior to application of the coating.
- F. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- G. VOC Content of Field-Applied Interior Paints and Coatings: Provide products that comply with the following limits for VOC content, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24); these requirements do not apply to paints and coatings that are applied in a fabrication or finishing shop:
 - 1. Flat Paints, Coatings, and Primers: VOC content of not more than 50 g/L.

2. Nonflat Paints, Coatings, and Primers: VOC content of not more than 150 g/L.

H. Chemical Components of Field-Applied Interior Paints and Coatings: Provide topcoat paints and anti-corrosive and anti-rust paints applied to ferrous metals that comply with the following chemical restrictions; these requirements do not apply to paints and coatings that are applied in a fabrication or finishing shop:

1. Aromatic Compounds: Paints and coatings shall not contain more than 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
2. Restricted Components: Paints and coatings shall not contain any of the following:

- a. Acrolein.
- b. Acrylonitrile.
- c. Antimony.
- d. Benzene.
- e. Butyl benzyl phthalate.
- f. Cadmium.
- g. Di (2-ethylhexyl) phthalate.
- h. Di-n-butyl phthalate.
- i. Di-n-octyl phthalate.
- j. 1,2-dichlorobenzene.
- k. Diethyl phthalate.
- l. Dimethyl phthalate.
- m. Ethylbenzene.
- n. Formaldehyde.
- o. Hexavalent chromium.
- p. Isophorone.
- q. Lead.
- r. Mercury.
- s. Methyl ethyl ketone.
- t. Methyl isobutyl ketone.
- u. Methylene chloride.
- v. Naphthalene.
- w. Toluene (methylbenzene).
- x. 1,1,1-trichloroethane.
- y. Vinyl chloride.

I. Colors: as indicated in Schedule.

2.3 PRIMERS/SEALERS

A. Interior Latex Primer/Sealer:

1. Safecoat New Wallboard Primecoat HPV
2. Safecoat Transitional Primer
3. AFM MetalCoat Acrylic Metal Primer

2.4 LATEX PAINTS

A. Institutional Low-Odor/VOC Latex (Low Sheen): MPI #144 (Gloss Level 2).

1. VOC Content: E Range of E3.
- B. Institutional Low-Odor/VOC Latex (Eggshell): MPI #145 (Gloss Level 3).
 1. VOC Content: E Range of E3.
- C. Institutional Low-Odor/VOC Latex (Semigloss): MPI #147 (Gloss Level 5).
 1. VOC Content: E Range of E3.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 1. Gypsum Board: 12 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.
 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove plates, machined surfaces, and similar items already in place that are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
 2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- C. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.
- D. Gypsum Board Substrates: Do not begin paint application until finishing compound is dry and sanded smooth.
- E. Wood Surfaces:

1. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other recommended know sealer before application of primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
2. Prime, stain, or seal wood to be painted immediately upon delivery. Prime edges, ends, faces, undersides, and backsides of wood.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
 1. Use applicators and techniques suited for paint and substrate indicated.
 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
 1. All metal surfaces to have paint spray applied.
- E. Painting Mechanical and Electrical Work: Paint items exposed in occupied spaces including, but not limited to, the following:
 1. Mechanical Work:
 - a. Visible portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets.
 2. Electrical Work:
 - a. Electrical equipment that is indicated to have a factory-primed finish for field painting.

3.4 CLEANING AND PROTECTION

- A. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- B. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- C. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.5 INTERIOR PAINTING SCHEDULE

- A. Surfaces to be painted are listed in the Room Finish Schedule, and indicated on the Drawings

B. Steel Substrates:

1. Institutional Low-Odor/VOC Latex System: MPI INT 5.1S.
 - a. Prime Coat: Rust-inhibitive primer (water based).
 - b. Intermediate Coat: Institutional low-odor/VOC interior latex matching topcoat.
 - c. Topcoat: Institutional low-odor/VOC interior latex semi gloss as scheduled.

C. Gypsum Board Substrates:

1. Institutional Low-Odor/VOC Latex System: MPI INT 9.2M.
 - a. Prime Coat: Interior latex primer/sealer.
 - b. Intermediate Coat: Institutional low-odor/VOC interior latex matching topcoat.
 - c. Topcoat: Institutional low-odor/VOC interior latex as scheduled with the following sheen:
 - 1) Walls, ceilings and soffits: (eggshell).
 - 2) Walls requiring clean-down, as scheduled: (semi gloss).

D. Stained Wood Substrates:

1. Moisture-Cured Clear Polyurethane Over Stain System: MPI INT 6.3Y.
 - a. Stain Coat: Interior wood stain (semitransparent).
 - b. Two Finish Coats: Moisture-cured clear polyurethane (flat).

E. Miscellaneous Finishes

1. Finish mechanical piping and electrical conduits, boxes; sprinkler piping and brackets; ductwork and accessories scheduled to receive wall and ceiling finishes with 2 spray coats Interior Latex Satin Dryfall I-1450(waterborne Acrylic Dryfall B42 Series) over appropriate primer.

END OF SECTION 099123

SECTION 130700 – BULLET-RESISTANT PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division I Specification Sections, apply to this Section.
- B. Underwriters Laboratory, UL 752, Current Edition, Standard for Bullet-Resisting Equipment.

1.2 SUMMARY

- A. All labor, material, equipment, and services necessary to furnish and install bullet-resistant [primed-finish] [stainless] steel glazing frames to be located as shown on the construction drawings or as noted in the window schedule.

1.3 QUALITY ASSURANCE

- A. Ballistic Performance: Certification shall be furnished indicating that all materials have been tested in accordance with the appropriate test procedures.
- B. Obtain bullet-resistant components through one source from a single manufacturer.

1.4 SUBMITTALS

- A. Shop Drawings shall be submitted for approval prior to the fabrication of materials. The drawings shall include plan views, elevations, sections, and details of the proposed installation including attachment methods.
- B. Drawings shall indicate dimensions, component profiles, and material finishes.
- C. Manufacturer's warranty and product data, glazing product information, and installation instructions shall be included with the submittal package.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Pack bullet-resistant glazing frames in wood crates for shipment. Glazing should be crated separately, unless frames are factory glazed.
- B. All items shall be delivered, stored, and handled in a manner that will not damage or deform.
- C. Abraded, scarred, or rusty areas shall be cleaned, repaired, or replaced immediately upon detection. Damaged items that cannot be restored to like-new condition shall be replaced.
- D. Store crated glazing frames in a dry location on platforms or pallets that are adequately ventilated, free of dust, water, and other contaminants, and stored in a manner that permits easy access for inspection and handling.

1.6 JOB CONDITIONS

- A. Field Measurements: Contractor shall verify finished openings by field measurement prior to fabrication and indicate measurements on Shop Drawings.
1. Quantities should allow for four-inch battens at all seams.

1.7 WARRANTY

- A. Warranty Period: Glazing frames shall be warranted for a period of 12 months from the date of substantial completion.
- B. Warranty is limited to material defects or workmanship and offered to North American Bullet Proof direct customers. Warranty is limited to replacement of product or refund of invoice price at North American Bullet Proof's discretion. Installation, shipping or other costs are not included in this warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design:
1. North American Bullet Proof, 106 Guadalupe Drive, P.O. Box 628, Cibolo, TX 78108. Phone 888.746.8427, Fax 210.225.0984

2.2 MATERIALS

- A. Bullet-Resistant Fiberglass Armor Panels:
1. Model – Shotgard® Fiberglass Armor Panels, [BB-A, BB-A, BB-2/6, BB-3, BB-4/5, BB-7, or BB-8 from ballistic chart]
 2. Ballistic Resistance Performance Level: U.L. 752 Level 3
 3. Nominal Thickness: 7/16"
 4. Nominal Weight (lbs./s.f.): 4.0
 5. Shotgard® Fiberglass Armor Panels to be constructed of a multi-ply ballistic fiberglass laminate produced from ballistic fiberglass and impregnated with a thermostat polyester resin binder. The multi-ply configuration is to provide a delaminating effect when ballistically attacked.
 6. Testing: Independently tested to U.L. 752 to level specified.

2.3 LABELING

- A. Bullet-resistant glazing frames shall be plainly and permanently labeled. The label shall be compatible with finishes. The label shall be visible only on the secure side, after installation, and shall include:
1. Manufacturer's name or identifying symbol
 2. Model Number
 3. Date of manufacture by month and year. This may be done through use of lot number or other traceable code.
 4. Correct mounting position including threat side and secure side (by removable label on glazing material).
 5. Code indicating bullet-resistant rating and test standard used (by removable label on glazing material).

PART 3 - EXECUTION

3.1 INSPECTION

- A. Upon delivery, the contractor shall open the crate and inspect the contents for freight damage. If damaged, notify the freight company of the claim. Check the packing list to make sure all items are present. If any items are missing, notify North American Bullet Proof.
- B. Prior to commencing installation, the contractor shall examine all areas to receive the bullet-resistant glazing frames to ensure that they are ready for installation. Components shall be checked and corrected for racking, twisting, and other malformation prior to installation. All surfaces and connections shall be examined for damage prior to installation.
- C. The contractor shall verify that the glazing frames comply with indicated requirements for type, size, and location.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install: Install panels/battens in accordance with manufacturer's instructions and drawings for chosen method.

3.3 ADJUST AND CLEAN

- A. After installation, clean surfaces and touch up any damaged areas.

END OF SECTION 130700

SECTION E: BIDDERS ACKNOWLEDGEMENT

CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT
CONTRACT NO. 7134

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. _____ through _____ issued thereto, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
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. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. (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 Joe Daniels Construction Co., 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 Madison State of Wisconsin; 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 fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.

Joseph A. Daniels
 SIGNATURE Joseph A. Daniels
 President
 TITLE, IF ANY

Sworn and subscribed to before me this
23rd day of August, 2013.

Kevin L. Sansbury
 (Notary Public or other officer authorized to administer oaths)
 My Commission Expires 07/17/2016

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



Contract #7134 – Joe Daniels Construction Co., Inc.

Section F: Disclosure of Ownership and BVC

This section is a required document for the bid to be considered complete. There are two methods for completing the Disclosure of Ownership and BVC form. Method one: The form can be filled out online and submitted to this site to be included with your electronic bid. Method two: The form can be downloaded from the site and submitted by hand to the City of Madison.

Method of Submittal for Disclosure of Ownership and BVC (click in box below to choose) *

I will submit Bid Express fillable online form (Disclosure of Ownership and BVC).

Section F: Disclosure of Ownership and Best Value Contracting

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

Not Applicable

Name of Business

Street Address or PO Box

City

State and Zip Code

Best Value Contracting

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

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.

No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.

Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.

First time contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.

Contractor has been in business less than one year.

Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

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

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- BRICKLAYER
- CARPENTER
- CEMENT MASON / CONCRETE FINISHER
- CEMENT MASON (HEAVY HIGHWAY)
- CONSTRUCTION CRAFT LABORER
- DATA COMMUNICATION INSTALLER
- ELECTRICIAN
- ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- GLAZIER
- HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- INSULATION WORKER (HEAT and FROST)
- IRON WORKER
- IRON WORKER (ASSEMBLER, METAL BLDGS)
- PAINTER and DECORATOR
- PLASTERER
- PLUMBER
- RESIDENTIAL ELECTRICIAN
- ROOFER and WATER PROOFER
- SHEET METAL WORKER
- SPRINKLER FITTER
- STEAMFITTER
- STEAMFITTER (REFRIGERATION)
- STEAMFITTER (SERVICE)
- TAPER and FINISHER
- TELECOMMUNICATIONS (VOICE, DATA and VIDEO) INSTALLER-TECHNICIAN
- TILE SETTER

Contract #7134 – Joe Daniels Construction Co., Inc.

Item Code	Description	Quantity	Units	Unit Price	Extension
90001	BASE BID: See Special Provisions, Section D for bid item description	1.00	Lump Sum	\$67,487.00	\$67,487.00
1 Item					
Total: \$67,487.00					

Section B: Alternate 1

\$4,509.00

Item Code	Description	Quantity	Units	Unit Price	Extension
Alternate: Owner-agency may award independently from entire bid.					

- Component is not included in bid total.

90002	ADD TO INSTALL ONE (1) BALLISTIC DOOR AND FRAME - LUMP SUM ALTERNATE #1 BID:	1.0000	Lump Sum	\$4,509.00	\$4,509.00
1 Item					
Total: \$4,509.00					

Section B: Alternate 2

\$9,466.00

Item Code	Description	Quantity	Units	Unit Price	Extension
Alternate: Owner-agency may award independently from entire bid.					

- Component is not included in bid total.

90003	ADD TO INSTALL ONE (1) BALLISTIC DOOR AND FRAME AND INSTALL ADDITIONAL BALLISTIC WALL PANELS - LUMP SUM ALTERNATE #2 BID:	1.0000	Lump Sum	\$9,466.00	\$9,466.00
1 Item					



Department of Public Works
City Engineering Division

Larry D. Nelson, 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

608 266 4751

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

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

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

Operations Supervisor
Kathleen M. Cryan

Hydrogeologist
Joseph L. DeMorett, P.G.

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

Financial Officer
Steven B. Danner-Rivers

BIENNIAL BID BOND

Joe Daniels Construction Co., Inc.

(a corporation of the State of Wisconsin)
(individual), (partnership), (hereinafter referred to as the "Principal") and
Cincinnati Insurance Company

a corporation of the State of Ohio (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, Wisconsin (hereinafter referred to as the "City"), in the sum equal to the individual proposal guaranty amounts of the total bid or bids of the Principal herein accepted by the City, for the payment of which the Principal and the Surety hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of this obligation is that the Principal has submitted to the City certain bids for projects from the time period of 2/1/12 through 1/31/14.

If the Principal is awarded the contract(s) by the City and, within the time and manner required by law after the prescribed forms are presented for its signature, the Principal enters into (a) written contract(s) in accordance with the bid(s), and files with the City its bond(s) guaranteeing faithful performance and payment for all labor and materials, as required by law, or if the City rejects all bids for the work described, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

In the event the Principal shall fail to execute and deliver the contract(s) or the performance and payment bond(s), all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to pay to the City within ten (10) calendar days of written demand a total equal to the sum of the individual proposal guaranty amounts of the total bid(s) as liquidated damages.

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

This bond may be terminated by the Surety upon giving thirty (30) days written notice to the City of its intent to terminate this bond and to be released and discharged therefrom, but such termination shall not operate to relieve or discharge the Surety from any liability already accrued or which shall accrue before the expiration of such thirty (30) day period.

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Tim Hausmann; Jeff Hausmann; Steven L. Squires; Sheila Dickey; Judith A. Walker; Patrick A. McKenna; Brooke L. Parker and/or Kelsey Jacobson

of Madison, Wisconsin its true and lawful Attorney(s)-in-Fact to sign, execute, seal and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Any such obligations in the United States, up to

Thirty Million and No/100 Dollars (\$30,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the 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 at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Vice President this 10th day of October, 2008.



THE CINCINNATI INSURANCE COMPANY

Thomas H. Kelly
Vice President

STATE OF OHIO) ss:
COUNTY OF BUTLER)

On this 10th day of October, 2008, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



Mark J. Huller
MARK J. HULLER, Attorney at Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date. Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio.

this 3rd day of January, 2012



Bruce J. Schlemmer
Secretary

SECTION H: AGREEMENT

THIS AGREEMENT made this 18 day of September in the year Two Thousand and Thirteen between JOE DANIELS CONSTRUCTION CO., 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 SEPTEMBER 17, 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:

CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT CONTRACT NO. 7134

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 EIGHTY-ONE THOUSAND FOUR HUNDRED SIXTY-TWO (\$81,462.00) Dollars 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 pre-apprentices, 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 Subjourney persons. Apprentices and sub journeypersons 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 therefore; 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 therefore; 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 original 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.

CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT
CONTRACT NO. 7134

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:

JOE DANIELS CONSTRUCTION CO., INC.

Company Name

Kevin L. Sainsbury 9/18/13
Witness Date

Joseph A. Daniels 9/18/13
President Date

Kevin L. Sainsbury 9/18/13
Witness Date

Jerrald M. Daniels 9/18/13
Secretary Date
Jerrald M. Daniels

CITY OF MADISON, WISCONSIN

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

Approved as to form:

Dan Blumhede
Finance Director

Neil P. My
City Attorney

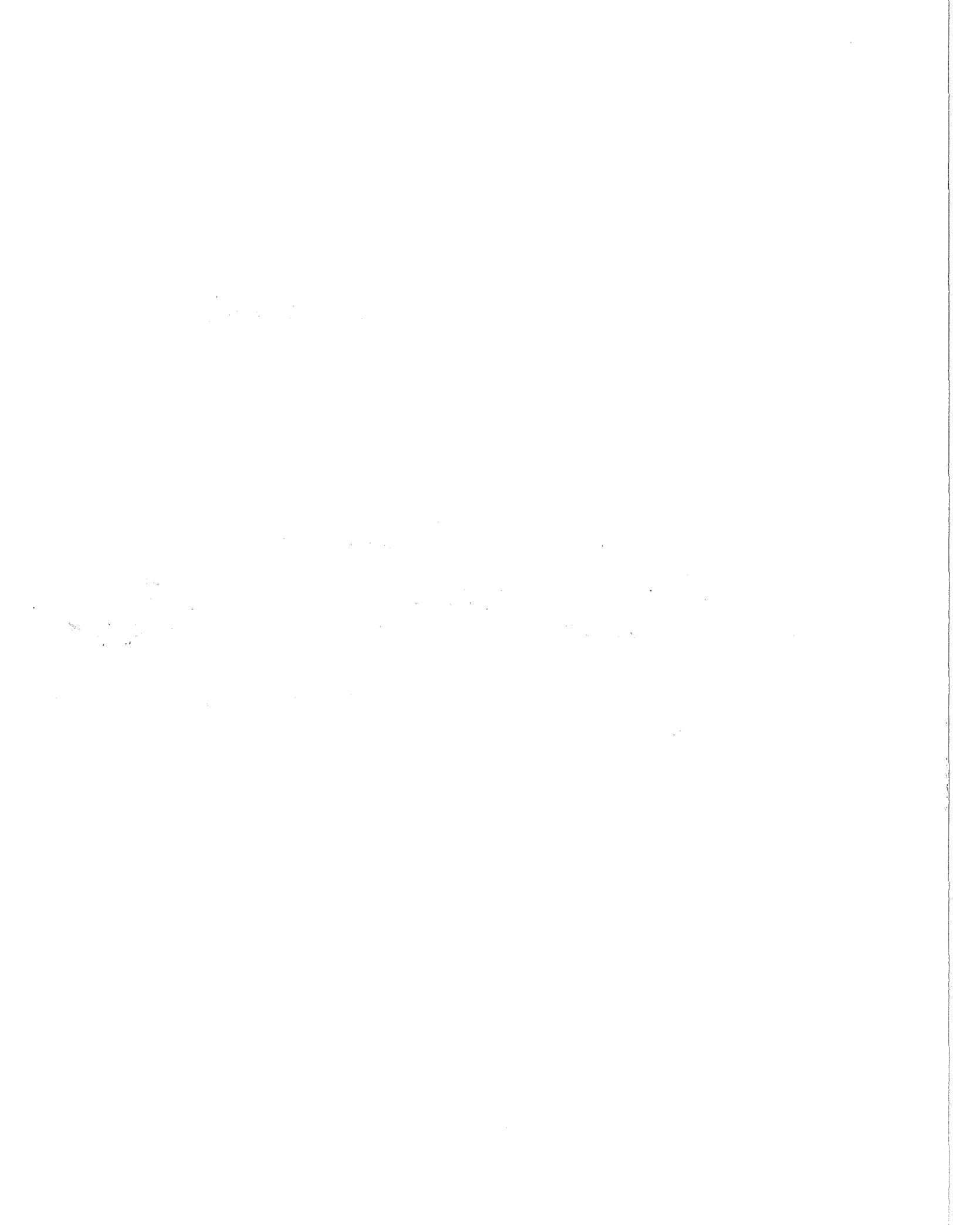
Signed this 27th day of September, 2013

Nanda
Witness

Paul 9-27-13
Mayor Date

Eric
Witness

Jean Tatro Schmitz for 9-23-2013
City Clerk Date



Bond NO. 120031

SECTION I: PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we JOE DANIELS CONSTRUCTION CO., INC. as principal, and Cincinnati Insurance Company Company of Cincinnati, Ohio as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of EIGHTY-ONE THOUSAND FOUR HUNDRED SIXTY-TWO (\$81,462.00) Dollars, 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:

CITY-COUNTY BUILDING GR-10 RECEPTION WINDOWS REPLACEMENT
CONTRACT NO. 7134

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 18th day of September 2013

Countersigned:

JOE DANIELS CONSTRUCTION CO., INC.

Company Name (Principal)

Kearl Sainsbury
Witness

Joseph A. Daniels
President
Joseph A. Daniels Seal (none)

Jerrald M. Daniels
Secretary
Jerrald M. Daniels

Approved as to form:

CINCINNATI INSURANCE COMPANY

Surety Seal

Salary Employee Commission

Bill P. My
City Attorney

By Patrick A. McKenna
Attorney-in-Fact
Patrick A. McKenna

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. 2349196 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.

September 18, 2013
Date

Patrick A. McKenna
Agent Signature
Patrick A. McKenna

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Tim Hausmann; Jeff Hausmann; Steven L. Squires; Sheila Dickey; Judith A. Walker; Patrick A. McKenna; Brooke L. Parker and/or Kelsey Jacobson

of Madison, Wisconsin its true and lawful Attorney(s)-in-Fact to sign, execute, seal and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Any such obligations in the United States, up to Thirty Million and No/100 Dollars (\$30,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

“RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the 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 at a meeting duly called and held on the 7th day of December, 1973.

“RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company.”

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Vice President this 10th day of October, 2008.



THE CINCINNATI INSURANCE COMPANY

Thomas H. Kelly
Vice President

STATE OF OHIO) ss:
COUNTY OF BUTLER)

On this 10th day of October, 2008, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



Mark J. Huller
MARK J. HULLER, Attorney at Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date. Section 147.03 O.R.C.

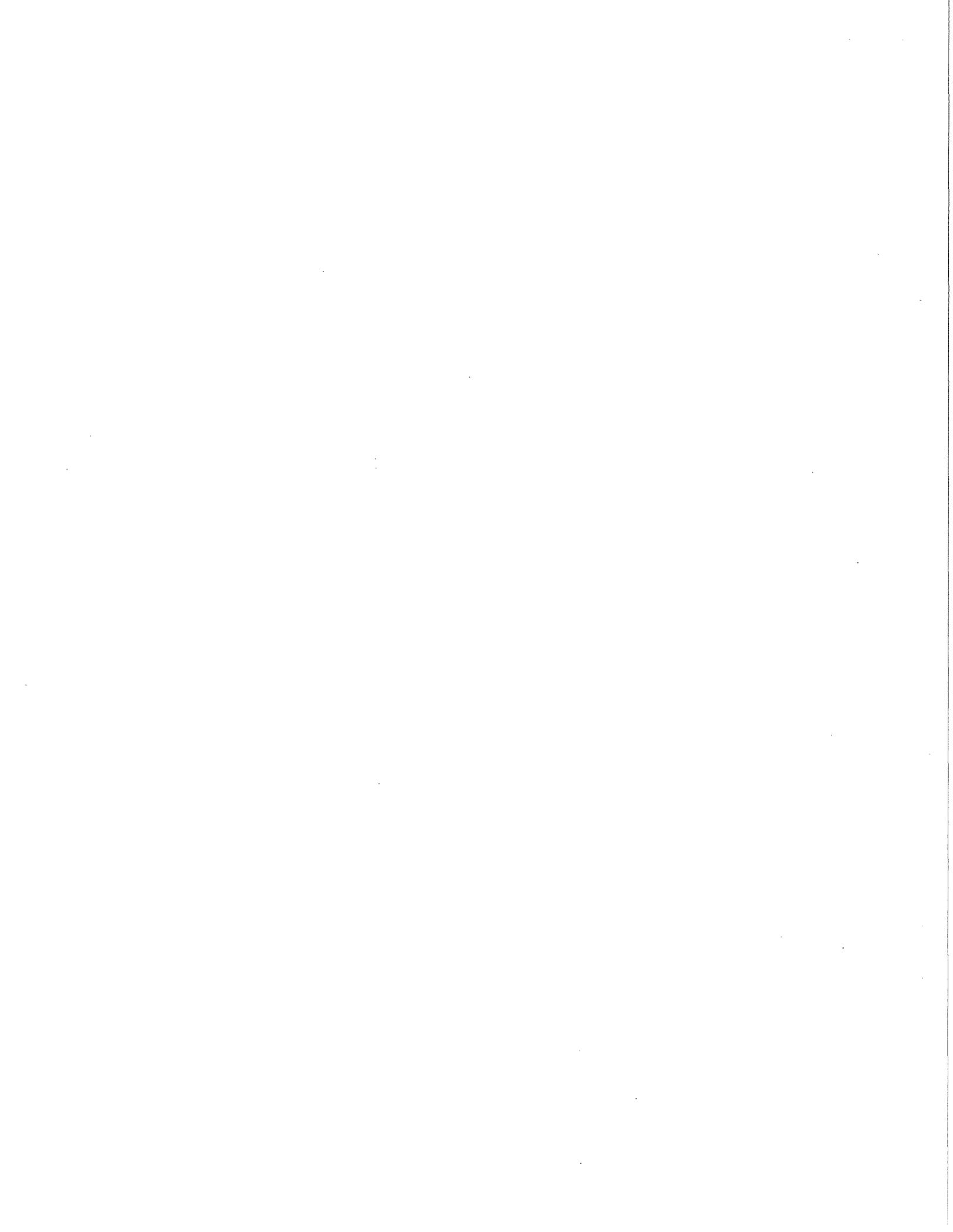
I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio.
this 18th day of September, 2013.



Suzanne J. Schloem
Secretary

SECTION J: PREVAILING WAGE RATES



PREVAILING WAGE RATE DETERMINATION

Issued by the State of Wisconsin
 Department of Workforce Development
 Pursuant to s. 66.0903, Wis. Stats.
 Issued On: 01/10/2013
 Amended On: 02/18/2013

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

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
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		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
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	Roofer 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 <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</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	14.64	44.28
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 <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	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 <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 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				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
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				
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
		\$	\$	\$
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 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> \$
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 <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</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	14.64	44.28
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	17.54	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 <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 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 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> \$
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 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> \$
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; Traveling 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
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
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	Rofer 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 <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>
		\$	\$	\$
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				
<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/hcci/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 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> \$
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
<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	\$	\$	\$
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 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> \$
	<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.shtm.</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.shtm.</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
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Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

SKILLED TRADES

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
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 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.	30.60	14.64	45.24
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 <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
<u>CODE</u>	<u>TRADE OR OCCUPATION</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.shtm .	35.22	19.90	55.12
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & 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.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	\$	\$	\$
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 Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. & 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.	32.92	18.46	51.38

Future Increase(s):
Add \$1/hr on 6/2/2013.

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>
		\$	\$	\$
553	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. Future Increase(s): Add \$1/hr on 6/2/2013.	32.39	18.46	50.85
554	Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	33.67	19.55	53.22
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$2/hr on 6/1/13; Add \$1.75/hr on 6/1/14.	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

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
Fringe Benefits Must Be Paid On <u>All</u> Hours Worked				
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 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> \$
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 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	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 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	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, Timberco, 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 *****