Contract Routing Form

ROUTING: Routine			-	: 03/10/2015
		f & Son Inc g Division		
Project: Fire Station Admin O e Properties Tenant Improvemen		Building and Fir	e Station #1	L (Hovd
Contract No.: 6891 Enactment No.: RES-15-00195 Dollar Amount 8,383,000.00	C	File No.: Enactment Ontract Posted	Date: 03/0	05/2015
(Please DATE before routing)			Mov	
Signatures Required		Date Received	Date Sigr	ned
City Clerk		3-10-2015	13-10-20	015
Director of Civil Rights				
Risk Manager Finance Director		3-16-15 \	3-18-	-15
City Attorney	13	3-18-(5	13-23-	15
Mayor				
Please return signed Contracts Room 103, City-County Building			ffice	
Original \pm 2 Conject				

03/10/2015 08:12:49 enjap - Randy Wiesner - 267-8679

Dis Rights: OK ADD / Problem - Hold Prev Wage: AA / Agency / No Contract Value: See alone

AA Plan: WAMPLETE (10) in by by Amendment / Addendum #

Type: POS / Dvlp / Sbdv / Gov't /
Grant / PW/ Goal / Loan / Agrmt



City of Madison

City of Madison Madison, WI 53703 www.cityofmadison.com

Master

File Number: 37248

File ID: 37248

File Type: Resolution

Status: Passed

Version: 1

Reference:

Controlling Body: BOARD OF

PUBLIC WORKS

Lead Referral: BOARD OF PUBLIC

Cost:

File Created Date: 02/10/2015

WORKS

File Name: Awarding Public Works Contract No. 6891, Fire

Station Administration Office Building and Fire Station

Final Action: 03/03/2015

No. 1 (Hovde Property Tenant Improvements).

Title: Awarding Public Works Contract No. 6891, Fire Station Administration Office Building and Fire Station No. 1 (Hovde Property Tenant Improvements).

CC Agenda Date: 03/03/2015

Agenda Number: 37.

Sponsors: BOARD OF PUBLIC WORKS

Effective Date: 03/05/2015

Attachments: Contract 6891.pdf

Notes: J Hoffman

Enactment Number: RES-15-00195

Author: Rob Phillips, City Engineer

Hearing Date:

Entered by: japien@cityofmadison.com

Published Date:

02/18/2015

Approval History

Version	Date	Approver	Action	
1	02/24/2015	Craig Franklin	Approve	

History of Legislative File

Ver- Acting Body:	Date:	Action:	Sent To:	Due Date:	Return	Result:
sion:					Date:	

Engineering Division

02/10/2015 Refer

BOARD OF PUBLIC WORKS 02/18/2015

Action Text: This Resolution was Refer to the BOARD OF PUBLIC WORKS due back on 2/18/2015

Notes:

1 BOARD OF PUBLIC

02/18/2015 RECOMMEND TO

WORKS

COUNCIL TO ADOPT UNDER SUSPENSION OF RULES 2.04, 2.05, 2.24, & 2.25 -REPORT OF

OFFICER

Action Text:

A motion was made by Branson, seconded by Skidmore, to RECOMMEND TO COUNCIL TO ADOPT UNDER SUSPENSION OF RULES 2.04, 2.05, 2.24, & 2.25 - REPORT OF OFFICER. The motion

Pass

Pass

passed by voice vote/other.

Notes:

1 COMMON COUNCIL.

03/03/2015 Adopt Under

Suspension of Rules 2.04, 2.05, 2.24, and 2.25

Action Text:

A motion was made by Schmidt, seconded by DeMarb, to Adopt Under Suspension of Rules 2.04,

2.05, 2.24, and 2.25. The motion passed by voice vote/other.

Notes:

Text of Legislative File 37248

Fiscal Note

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

Title

Awarding Public Works Contract No. 6891, Fire Station Administration Office Building and Fire Station No. 1 (Hovde Property Tenant Improvements).

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. 6891) for itemization of bids...

CONTRACT NO. 6891 FIRE STATION ADMINISTRATION OFFICE BUILDING AND FIRE STATION NO. 1 (HOVDE PROPERTY TENANT IMPROVEMENTS)

JH FINDORFF & SON, INC.

\$8,383,000.00

Acct. No. 10387-30-140: 53310 Contingency 8%±

\$8,383,000.00 670,640.00

GRAND TOTAL

\$9,053,640.00

Wisconsin Office of the Commissioner of Insurance Licensed Producer Search

Tuesday, March 3, 2015



WALSH, JOHN W PORTAGE WI

License Status: Active License No: 168955 NPN No: 285241

Effective Date: 01-01-1982 Expiration Date: 01-31-2016

License Type: Resident Intermediary Indv

Lines of Authority

Line of Authority	Residency	Effective Date	Status
Casualty	Resident	01-01-1982	Active
Life	Resident	01-01-1982	Active
Accident & Health	Resident	01-01-1982	Active
Property	Resident	01-01-1982	Active

Appointments and Terminations

	alification pe/Status	Effective Date	Termination Date	Termination Reason
ACE American	AH/Active	11-30-2004		
Insurance Company	CAS/Active	11-30-2004		
	PROP/Active	11-30-2004		
ACUITY, A Mutual	AH/Inactive	02-12-2001	04-16-2002	Canceled
Insurance Company	CAS/Active	02-12-2001		
	PROP/Active	02-12-2001		
American Casualty	AH/Inactive	04-22-1974	09-16-2008	Canceled
Company of Reading,	CAS/Active	04-22-1974		
Pennsylvania	PROP/Active	04-22-1974		
American Guarantee	AH/Active	07-15-1997		
and Liability	CAS/Active	07-15-1997		
Insurance Company	PROP/Active	07-15-1997		
American	AH/Inactive	02-21-1978	02-17-2005	Canceled
Manufacturers	CAS/Inactive	02-21-1978	02-17-2005	Canceled
Mutual Insurance Company	PROP/Inactive	02-21-1978	02-17-2005	Canceled
American Zurich	AH/Active	07-15-1997		·
Insurance Company	CAS/Active	07-15-1997		
	PROP/Active	07-15-1997		
Arch Insurance	CAS/Active	02-09-2004		
Company	PROP/Active	02-09-2004		

•				
Assurance Company	CAS/Inactive	04-02-1993	10-30-2012	Canceled
of America	PROP/Inactive	04-02-1993	02-19-2015	Vol. Surrender per Agent Rqst
Automobile Insurance Company	AH/Inactive	07-29-1992	07-10-2013	Vol. Surrender per Agent Rqst
of Hartford,	CAS/Inactive	07-29-1992	12-05-2009	Canceled
Connecticut, The	PROP/Inactive	07-29-1992	12-05-2009	Canceled
Charter Oak Fire Insurance Company,	AH/Inactive	08-06-1996	07-10-2013	Vol. Surrender per Agent Rqst
The	CAS/Inactive	08-06-1996	12-05-2009	Canceled
	PROP/Inactive	08-06-1996	12-05-2009	Canceled
Cincinnati Casualty	CAS/Active	05-02-2014		
Company, The	PROP/Active	05-02-2014		
Cincinnati Indemnity	CAS/Active	05-02-2014		
Company, The	PROP/Active	05-02-2014		
Cincinnati Insurance	CAS/Active	05-02-2014		
Company, The	PROP/Active	05-02-2014		
Cincinnati Life	AH/Active	09-16-2004		
Insurance Company, The	LI/Active	09-16-2004		
		10.07.1001	10 10 0000	V 1 0 1
Continental Assurance Company	AH/Inactive	10-07-1981	10-10-2000	Vol. Surrender per Agent Rqst
	LI/Inactive	10-07-1981	10-10-2000	Vol. Surrender per Agent Rqst
Continental Casualty	AH/Inactive	04-22-1974	09-16-2008	Canceled
Company	CAS/Active	04-22-1974		
	PROP/Active	04-22-1974		
Continental	CAS/Active	02-24-2006		
Insurance Company, The	PROP/Active	02-24-2006		
Farmington Casualty	AH/Inactive	07-29-1992	11-20-2000	Vol. Surrender per
Company	Allymactive	07 23 1332	11 20 2000	Agent Rqst
	CAS/Inactive	07-29-1992	11-20-2000	Vol. Surrender per Agent Rqst
	PROP/Inactive	07-29-1992	11-20-2000	Vol. Surrender per Agent Rqst
Federal Insurance	AH/Inactive	11-01-1976	09-11-2008	Canceled
Company	CAS/Inactive	11-01-1976	03-15-2007	Canceled
	PROP/Inactive	11-01-1976	03-15-2007	Canceled
Fidelity & Guaranty	AH/Inactive	07-03-1979	01-09-2013	Inadequate Production
Life Insurance	LI/Inactive	07-03-1979	01-09-2013	Inadequate Production
Company				

Fidelity and Deposit Company of	CAS/Active PROP/Active	11-07-1986 11-07-1986		
Maryland	THOI / HELIVE	11 07 1300		
Fidelity and	CAS/Inactive	06-23-1995	12-05-2009	Canceled
Guaranty Insurance Company	PROP/Inactive	06-23-1995	12-05-2009	Canceled
Fidelity and Guaranty Insurance	AH/Inactive	06-23-1995	07-10-2013	Vol. Surrender per Agent Rqst
Underwriters, Inc.	CAS/Inactive	06-23-1995	12-05-2009	Canceled
	PROP/Inactive	06-23-1995	12-05-2009	Canceled
General Casualty Company of Wisconsin	AH/Inactive CAS/Active PROP/Active	09-02-1983 09-02-1983 09-02-1983	12-03-2008	Canceled
Great American Alliance Insurance	CAS/Inactive	08-15-1989	11-28-2001	Vol. Surrender per Agent Rqst
Company	PROP/Inactive	08-15-1989	11-28-2001	Vol. Surrender per Agent Rqst
Great American	AH/Inactive	08-15-1989	11-15-2002	Inadequate Production
Insurance Company	CAS/Inactive	08-15-1989	11-28-2001	Vol. Surrender per Agent Rqst
	PROP/Inactive	08-15-1989	11-28-2001	Vol. Surrender per Agent Rqst
Great American	AH/Inactive	09-13-1989	11-15-2002	Inadequate Production
Insurance Company of New York	CAS/Inactive	09-13-1989	11-28-2001	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-13-1989	11-28-2001	Vol. Surrender per Agent Rqst
Great Northern Insurance Company	AH/Inactive	07-30-1979	06-01-2000	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-30-1979	06-01-2000	Vol. Surrender per Agent Rqst
,	PROP/Inactive	07-30-1979	06-01-2000	Vol. Surrender per Agent Rqst
Hamilton Insurance	CAS/Inactive	04-02-1993	12-05-2007	Canceled
Company	PROP/Inactive	04-02-1993	12-05-2007	Canceled
Hartford Accident	AH/Inactive	02-23-1981	02-23-1981	Entered in Error
and Indemnity	CAS/Inactive	02-23-1981	10-25-2007	Canceled
Company	PROP/Inactive	02-23-1981	10-25-2007	Canceled
Hartford Fire	AH/Inactive	02-23-1981	02-23-1981	Entered in Error
Insurance Company	CAS/Inactive	02-23-1981	10-25-2007	Canceled
	PROP/Inactive	02-23-1981	10-25-2007	Canceled
Hartford	AH/Inactive	07-01-1988	07-01-1988	Entered in Error

			•		
	Underwriters Insurance Company	CAS/Inactive PROP/Inactive	07-01-1988 07-01-1988	10-25-2007 10-25-2007	Canceled Canceled
	Indemnity Insurance	AH/Inactive	11-30-2004	06-04-2009	Vol. Surrender per
	Company of North America	CAS/Inactive	11-30-2004	06-04-2009	Agent Rqst Vol. Surrender per Agent Rqst
Annual Control of Cont		PROP/Inactive	11-30-2004	06-04-2009	Vol. Surrender per Agent Rqst
	Lumbermens Mutual Casualty Company	AH/Inactive CAS/Inactive PROP/Inactive	02-21-1978 02-21-1978 02-21-1978	02-17-2005 02-17-2005 02-17-2005	Canceled Canceled Canceled
	Maryland Casualty	CAS/Inactive	04-02-1993	10-30-2012	Canceled
-	Company	PROP/Inactive	04-02-1993	10-30-2012	Canceled
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	MetLife Insurance Company of Connecticut	CAS/Inactive	08-07-1996	04-21-2003	Inadequate Production
	National Fire Insurance Company of Hartford	AH/Inactive CAS/Active PROP/Active	04-22-1974 04-22-1974 04-22-1974	09-16-2008	Canceled
	North American Specialty Insurance Company	CAS/Active PROP/Active	06-26-2009 06-26-2009		
TOTAL CONTRACTOR CONTR	Northern Insurance Company of New York	CAS/Inactive PROP/Inactive	04-02-1993 04-02-1993	10-30-2012 10-30-2012	Canceled Canceled
	Old Republic	AH/Inactive	11-11-1991	01-30-2004	Inadequate Production
	Insurance Company	CAS/Inactive	11-11-1991	06-16-2009	Vol. Surrender per Agent Rqst
		PROP/Inactive	11-11-1991	06-16-2009	Vol. Surrender per Agent Rqst
***************************************	Old Republic Surety Company	CAS/Inactive	11-11-1991	06-16-2009	Vol. Surrender per Agent Rast
		PROP/Inactive	11-11-1991	06-16-2009	Vol. Surrender per Agent Rqst
THE RESERVE AND PERSONS ASSESSED.	Pacific Indemnity Company	AH/Inactive	12-10-1980	06-01-2000	Vol. Surrender per Agent Rqst
		CAS/Inactive	12-10-1980	06-01-2000	Vol. Surrender per Agent Rqst
94290		PROP/Inactive	12-10-1980	06-01-2000	Vol. Surrender per Agent Rqst
	Phoenix Insurance Company, The	AH/Inactive	08-06-1996	07-10-2013	Vol. Surrender per Agent Rqst
ALTERNATION OF THE PERSONS ASSESSED.		CAS/Inactive	08-06-1996	12-05-2009	Canceled

1	PROP/Inactive	08-06-1996	12-05-2009	Canceled
Reassure America Life Insurance Company	AH/Inactive LI/Inactive	01-06-1989 01-06-1989	06-06-2001 06-06-2001	Inadequate Production Inadequate Production
Regent Insurance Company	AH/Inactive CAS/Active PROP/Active	09-02-1983 09-02-1983 09-02-1983	12-03-2008	Canceled
Reliance National Indemnity Company	AH/Inactive CAS/Inactive PROP/Inactive	03-23-1979 03-23-1979 03-23-1979	02-01-2001 02-01-2001 02-01-2001	Company Merger Company Merger Company Merger
St. Paul Fire and Marine Insurance Company	AH/Active CAS/Inactive CAS/Inactive PROP/Inactive PROP/Inactive	09-24-1987 11-28-2012 09-24-1987 11-28-2012 09-24-1987	09-30-2014 11-08-2012 09-30-2014 11-08-2012	Canceled Canceled Canceled Canceled
St. Paul Mercury Insurance Company	AH/Inactive	09-24-1987	07-10-2013	Vol. Surrender per Agent Rqst
	CAS/Inactive PROP/Inactive	09-24-1987 09-24-1987	12-05-2009 12-05-2009	Canceled Canceled
St. Paul Protective Insurance Company	AH/Inactive	11-04-1998	04-21-2003	Vol. Surrender per Agent Rqst
	CAS/Inactive	11-04-1998	04-21-2003	Vol. Surrender per Agent Rqst
	PROP/Inactive	11-04-1998	04-21-2003	Vol. Surrender per Agent Rqst
Standard Fire Insurance Company,	AH/Inactive	07-29-1992	07-10-2013	Vol. Surrender per Agent Rqst
The	CAS/Inactive	07-29-1992	12-05-2009	Canceled
	PROP/Inactive	07-29-1992	12-05-2009	Canceled
TIG Insurance Company	AH/Inactive	09-08-1989	03-21-1997	Vol. Surrender per Agent Rqst
	CAS/Inactive	09-08-1989	03-21-1997	Vol. Surrender per Agent Rqst
	PROP/Inactive	09-08-1989	03-21-1997	Vol. Surrender per Agent Rqst
Transcontinental	AH/Inactive	04-22-1974	01-14-2008	Canceled
Insurance Company	CAS/Inactive	04-22-1974	01-14-2008	Canceled
	PROP/Inactive	04-22-1974	01-14-2008	Canceled
Transportation Insurance Company	AH/Inactive CAS/Active	04-22-1974 04-22-1974	09-16-2008	Canceled
	PROP/Active	04-22-1974		
				* · · · · · · · · · · · · · · · · · · ·

Travelers Casualty and Surety Company	AH/Inactive	07-29-1992	07-10-2013	Vol. Surrender per Agent Rqst
	CAS/Inactive	07-29-1992	12-05-2009	Canceled
	PROP/Inactive	07-29-1992	12-05-2009	Canceled
Travelers Casualty	AH/Active	07-29-1992		And the state of t
and Surety Company	CAS/Active	11-28-2012		· · · · · · · · · · · · · · · · · · ·
of America	CAS/Inactive	07-29-1992	11-08-2012	Canceled
	PROP/Active	11-28-2012	11 00 2012	Carreerea
***************************************	PROP/Inactive	07-29-1992	11-08-2012	Canceled
	*** The state of t	A BEN SOLITION AND AND AND AND AND AND AND AND AND AN		and the second s
Travelers Casualty Company of	CAS/Inactive	07-29-1992	11-20-2000	Vol. Surrender per Agent Rqst
Connecticut	PROP/Inactive	07-29-1992	11-20-2000	Vol. Surrender per Agent Rqst
Travelers Casualty Insurance Company	AH/Inactive	07-29-1992	11-22-2000	Vol. Surrender per Agent Rqst
of America	CAS/Inactive	11-28-2012	11-25-2013	Canceled
	CAS/Inactive	10-11-2007	11-08-2012	Canceled
	CAS/Inactive	07-29-1992	11-22-2000	Vol. Surrender per Agent Rqst
	PROP/Inactive	11-28-2012	11-25-2013	Canceled
	PROP/Inactive	10-11-2007	11-08-2012	Canceled
	PROP/Inactive	07-29-1992	11-22-2000	Vol. Surrender per Agent Rqst
Travelers	CAS/Inactive	06-14-2001	12-05-2009	Canceled
Commercial Insurance Company	CAS/Inactive	07-29-1992	11-22-2000	Vol. Surrender per Agent Rast
	PROP/Inactive	06-14-2001	12-05-2009	Canceled
	PROP/Inactive	07-29-1992	11-22-2000	Vol. Surrender per Agent Rqst
Travelers Constitution State	CAS/Inactive	11-24-1998	12-11-2003	Vol. Surrender per Agent Rqst
Insurance Company	PROP/Inactive	11-24-1998	12-11-2003	Vol. Surrender per Agent Rqst
Travelers Home and	CAS/Inactive	11-28-2012	11-25-2013	Canceled `
Marine Insurance	CAS/Inactive	07-25-2007	11-08-2012	Canceled
Company, The	PROP/Inactive	11-28-2012	11-25-2013	Canceled
	PROP/Inactive	07-25-2007	11-08-2012	Canceled
Travelers Indemnity	CAS/Inactive	08-06-1996	12-05-2009	Canceled
Company of America, The	PROP/Inactive	08-06-1996	12-05-2009	Canceled
Travelers Indemnity	AH/Inactive	08-06-1996	01-14-2009	Canceled
Company of	CAS/Inactive	08-06-1996	12-05-2009	Canceled
Connecticut, The	PROP/Inactive	08-06-1996	12-05-2009	Canceled
	/ NOT/INDUIVE	30 30 1350	12 03 2003	Carrocica

_				
Travelers Indemnity Company, The	AH/Inactive CAS/Inactive PROP/Inactive	04-19-1974 04-19-1974 04-19-1974	01-14-2009 12-05-2009 12-05-2009	Canceled Canceled Canceled
Travelers Property Casualty Company of America	CAS/Inactive PROP/Inactive	08-07-1996 08-07-1996	12-05-2009 12-05-2009	Canceled Canceled
United Fire & Casualty Company	CAS/Inactive PROP/Inactive	06-19-1997 06-19-1997	09-15-2014 09-15-2014	Canceled Canceled
United Pacific Insurance Company	AH/Inactive CAS/Inactive PROP/Inactive	03-23-1979 03-23-1979 03-23-1979	02-13-2001 02-13-2001 02-13-2001	Company Merger Company Merger Company Merger
United States Fidelity and Guaranty Company	AH/Inactive CAS/Inactive PROP/Inactive	06-23-1995 06-23-1995 06-23-1995	01-14-2009 12-05-2009 12-05-2009	Canceled Canceled Canceled
Universal Surety Company	CAS/Active	04-17-2002		
USF&G Insurance Company of Wisconsin	AH/Inactive CAS/Inactive PROP/Inactive	06-23-1995 06-23-1995 06-23-1995	01-01-2001 01-01-2001 01-01-2001	Company Merger Company Merger Company Merger
Valley Forge Insurance Company	AH/Inactive CAS/Active PROP/Active	04-22-1974 04-22-1974 04-22-1974	09-16-2008	Canceled
Vigilant Insurance Company	AH/Inactive	11-01-1976	06-01-2000	Vol. Surrender per Agent Rqst
	CAS/Inactive	11-01-1976	06-01-2000	Vol. Surrender per Agent Rqst
	PROP/Inactive	11-01-1976	06-01-2000	Vol. Surrender per Agent Rqst
Washington International Insurance Company	CAS/Active PROP/Active	06-26-2009 06-26-2009		
Westchester Fire Insurance Company	AH/Inactive	11-30-2004	06-04-2009	Vol. Surrender per Agent Rqst
	CAS/Inactive	11-30-2004	06-04-2009	Vol. Surrender per Agent Rast
	PROP/Inactive	11-30-2004	06-04-2009	Vol. Surrender per Agent Rqst
Western Surety Company	CAS/Active	02-20-1991		
Zurich American Insurance Company	AH/Active CAS/Active	07-15-1997 07-15-1997	-	
i ·				

	PROP/Active	07-15-1997
Zurich American Insurance Company of Illinois	AH/Active CAS/Active PROP/Active	

DISCLAIMER: The Office of the Commissioner of Insurance does not endorse any specific agent or insurance agency. You are encouraged to contact the Agent Licensing Section at if you have any concerns with any of the agents or agencies listed.



CHARACTER COMMUNITY CRAFTSMANSHIP

March 4, 2015

State of Wisconsin
Dept. of Administration, Division of State Facilities
PO Box 7866
Madison WI 53707-7866

To Whom It May Concern:

As Secretary of J. H. Findorff & Son Inc., I hereby certify that attached is a true, correct and complete copy of Article IV, sections 4.01 through 4.11 of the By-Laws of the corporation adopted by the Board of Directors on May 19, 1971. Said Articles empower the President, or in his absence any designated officer, to execute contracts. These Articles are in force as of this date. In addition, attached is the current list of Officers and Directors.

Signed and sealed this 4th day of March, 2015.

J.H. FINDORFF & SON INC.

Tim Stadelman

Secretary

Subscribed and sworn to before me this 4th day of March, 2015

Nancy Schmitt

_

My commission expires 8-17

NOTAPA NO

minutes of the meeting or unless he shall file his written dissent to such action with the person acting as the secretary of the meeting before the adjournment thereof or shall forward such dissent by registered mail to the Secretary of the corporation immediately after the adjournment of the meeting. Such right to dissent shall not apply to a director who voted in favor of such action.

- 3.12. Committees. The Board of Directors by resolution adopted by the affirmative vote of a majority of the number of directors set forth in Section 0.03 may designate one or more committees, each committee to consist of three or more directors elected by the Board of Directors, which to the extent provided in said resolution as initially adopted, and as thereafter supplemented or amended by further resolution adopted by a like vote, shall have and may exercise, when the Board of Directors is not in session, the powers of the Board of Directors in the management of the business and affairs of the corporation, except action in respect to dividends to shareholders, election of the principal officers or the filling of vacancies in the Board of Directors or committees created pursuant to this section. The Board of Directors may elect one or more of its members as alternate members of any such committee who may take the place of any absent member or members at any meeting of such committee, upon request by the President or upon request by the chairman of such meeting. Each such committee shall fix its own rules governing the conduct of its activities and shall make such reports to the Board of Directors of its activities as the Board of Directors may request.
- 3.13. Unanimous Consent without Meeting. Any action required or permitted by the articles of incorporation or by-laws or any provision of law to be taken by the Board of Directors at a meeting or by resolution may be taken without a meeting if a consent in writing, setting forth the action so taken, shall be signed by all of the directors then in office.
- 3.14. Indemnification. The corporation shall indemnify any person against any liability or loss sustained or incurred by such person in connection with any civil, criminal or administrative action in which he is made or threatened to be made a party by reason of the fact that he, his testator or intestate, is or was a director of this corporation, and the corporation shall indemnify any such person against any expenses incurred by him in connection with such action, suit or proceeding or threat thereof.

ARTICLE IV. OFFICERS

4.01. Number. The principal officers of the corporation shall be a Chairman of the Board, a President, the number of Vice-Presidents as set forth in Section 0.05, a Secretary, and a Treasurer, each of whom shall be elected by the Board of Directors. Such other officers and assistant officers as may be deemed necessary may be elected or appointed by the Board of Directors. Any two or more offices may be held by the same person, except the offices of President and Secretary and offices of President and Vice-President.

- 4.02. Election and Term of Office. The officers of the corporation to be elected by the Board of Directors shall be elected annually by the Board of Directors at the first meeting of the Board of Directors held after each annual meeting of the shareholders. If the election of officers shall not be held at such meeting, such election shall be held as soon thereafter as conveniently may be. Each officer shall hold office until his successor shall have been duly elected or until his prior death, resignation or removal.
- 4.03. Removal. Any officer or agent may be removed by the Board of Directors whenever in its judgment the best interests of the corporation will be served thereby, but such removal shall be without prejudice to the contract rights, if any, of the person so removed. Election or appointment shall not of itself create contract rights.
- 4.04. Vacancies. A vacancy in any principal office because of death, resignation, removal, disqualification or otherwise, shall be filled by the Board of Directors for the unexpired portion of the term.
- 4.04.01. Chairman of the Board. The Chairman of the Board shall be responsible for policy matters and finances of the corporation and shall advise and consult with the President in regard to major decisions in the affairs of the corporation. The Chairman of the Board shall preside at the meetings of the Board of Directors and, in his absence, the President shall preside. In addition to such duties, the Chairman of the Board shall perform such other duties on behalf of the corporation as the Board of Directors may from time to time direct.
- President. The President shall be the principal executive officer of the corporation and, subject to the control of the Board of Directors, shall in general supervise and control all of the business and affairs of the corporation. He shall, when present, preside at all meetings of the shareholders and of the Board of Directors. He shall have authority, subject to such rules as may be prescribed by the Board of Directors, to appoint such agents and employees of the corporation as he shall deem necessary, to prescribe their powers, duties and compensation, and to delegate authority to them. Such agents and employees shall hold office at the discretion of the President. He shall have authority to sign, execute and acknowledge, on behalf of the corporation, all deeds, mortgages; bonds, stock certificates, contracts, leases, reports and all other documents or instruments necessary or proper to be executed in the course of the corporation's regular business, or which shall be authorized by resolution of the Board of Directors; and, except as otherwise provided by law or the Board of Directors, he may authorize any Vice-President or other officer or agent of the corporation to sign, execute and acknowledge such documents or instruments in his place and stead. In general, he shall perform all duties incident to the office of President and such other duties as may be prescribed by the Board of Directors from time to time.

- 4.06. The Vice-Presidents. In the absence of the President or in the event of his death, inability or refusal to act, or in the event for any reason it shall be impracticable for the President to act personally, the Executive Vice-President or in the event of his absence or inability to act, then the Vice-Presidents in the order designated by the Board of Directors, if there be more than one, or in the absence of any designation, then in the order of their election, shall perform the duties of the President, and when so acting, shall have all the powers of and be subject to all the restrictions upon the President. Any Vice-President may sign, with the Secretary or Assistant Secretary, certificates for shares of the corporation; and shall perform such other duties and have such authority as from time to time may be delegated or assigned to him by the President or by the Board of Directors. The execution of any instrument of the corporation by any Vice-President shall be conclusive evidence, as to third parties, of his authority to act in the stead of the President.
- 4.07. The Secretary. The Secretary shall: (a) keep the minutes of the meetings of the shareholders and of the Board of Directors in one or more books provided for that purpose; (b) see that all notices are duly given in accordance with the provisions of these by-laws or as required by law; (c) be custodian of the corporate records and of the seal of the corporation and see that the seal of the corporation is affixed to all documents the execution of which on behalf of the corporation under its seal is duly authorized; (d) keep or arrange for the keeping of a register of the post office address of each shareholder which shall be furnished to the Secretary by such shareholder; (e) sign with the President, or a Vice-President, certificates for shares of the corporation, the issuance of which shall have been authorized by resolution of the Board of Directors; (f) have general charge of the stock transfer books of the corporation; and (g) in general perform all duties incident to the office of Secretary and have such other duties and exercise such authority as from time to time may be delegated or assigned to him by the President or by the Board of Directors.
- 4.08. The Treasurer. The Treasurer shall: (a) have charge and custody of and be responsible for all funds and securities of the corporation; (b) receive and give receipts for monies due and payable to the corporation from any source whatsoever, and deposit all such monies in the name of the corporation in such banks, trust companies or other depositories as shall be selected in accordance with the provisions of Section 5.04; and (c) in general perform all of the duties incident to the office of Treasurer and have such other duties and exercise such other authority as from time to time may be delegated or assigned to him by the President or by the Board of Directors. If required by the Board of Directors, the Treasurer shall give a bond for the faithful discharge of his duties in such sum and with such surety or sureties as the Board of Directors shall determine.
- 4.09. Assistant Secretaries and Assistant Treasurers. There shall be such number of Assistant Secretaries and Assistant Treasurers as the Board of Directors may from time to time authorize. The Assistant Secretaries may sign with the President or a Vice-President certificates for shares of the

B-11

corporation the issuance of which shall have been authorized by a resolution of the Board of Directors. The Assistant Treasurers shall respectively, if required by the Board of Directors, give bonds for the faithful discharge of their duties in such sums and with such sureties as the Board of Directors shall determine. The Assistant Secretaries and Assistant Treasurers, in general, shall perform such duties and have such authority as shall from time to time be delegated or assigned to them by the Secretary or the Treasurer, respectively, or by the President or the Board of Directors.

- 4.10. Other Assistants and Acting Officers. The Board of Directors shall have the power to appoint any person to act as assistant to any officer, or as agent for the corporation in his stead, or to perform the duties of such officer whenever for any reason it is impracticable for such officer to act personally, and such assistant or acting officer or other agent so appointed by the Board of Directors shall have the power to perform all the duties of the office to which he is so appointed to be assistant, or as to which he is so appointed to act, except as such power may be otherwise defined or restricted by the Board of Directors.
- 4.11. Contract Managers. There may be appointed from time to time by the Board of Directors one or more Contract Managers, or other special representatives of the corporation, however designated, to represent the corporation in matters pertaining to the performance of particular contracts or projects and in such matters to have and exercise in the name of the corporation and on its behalf such powers as may be necessary or appropriate thereto, including the signing of checks. vouchers, receipts and other papers.

J.H. Findorff & Son Inc. Current Listing of All Officers and Directors 10/2/2012

President/Dir.

David Beck-Engel

Chairman of

the Board/Dir.

Richard M. Lynch

Vice Pres.-Finance/

Treasurer/Dir.

Daniel L. Petersen

Vice Pres.-Operations/Dir.

Michael S. Dillis

Vice Pres. - Business

Development/Dir.

Jeffrey A. Tubbs

Vice Pres. – Administration

Secretary/Dir.

Tim J. Stadelman

Vice President – Project

Management/Dir.

Jeffrey W. McLean

Vice President – Field

Operations/Dir.

Brian J. Hornung

Vice President – Healthcare/Dir.

James G. Yehle

Asst. Secretary

Eric K. Wynn

Director

Sonya G. Femal

\$8,383,00	0	.0	0
	FI	L	E

BID OF J. H. FINDORFF & SON, INC.

2015

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

FIRE STATION ADMINISTRATION OFFICE BUILDING AND FIRE STATION NO. 1 -(HOVDE PROPERTIES TENANT IMPROVEMENTS)

CONTRACT NO. 6891

PROJECT NO. 53W1434

MUNIS NO. 10387-30-140

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL MADISON, WISCONSIN ON MARCH 3, 2015

> CITY ENGINEERING DIVISION 1600 EMIL STREET MADISON, WISCONSIN 53713

https://bidexpress.com/login

FIRE STATION ADMINISTRATION OFFICE BUILDING AND FIRE STATION NO. 1 – (HOVDE PROPERTIES TENANT IMPROVEMENTS)

CONTRACT NO. 6891

INDEX

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS	A-1
SECTION B: PROPOSAL SECTION	B-1
SECTION C: SMALL BUSINESS ENTERPRISE	C-1
SECTION D: SPECIAL PROVISIONS	D-1
SECTION E: BIDDER'S ACKNOWLEDGEMENT	E-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

RFP: RW

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:	FIRE STATION ADMINISTRATION OFFICE BUILDING AND FIRE STATION NO. 1 – (HOVDE PROPERTIES TENANT IMPROVEMENTS)		
CONTRACT NO.:	6891		
SBE GOAL	9%		
BID BOND	5%		
PRE BID MEETING (1:00 P.M.)	JANUARY 30, 2015		
PRE-BID WALKTHRU (10:00 A.M. to 1:00 P:M.)	JANUARY 21, 2015		
PREQUALIFICATION APPLICATION DUE (1:00 P.M.)	JANUARY 30,2015		
BID SUBMISSION (1:00 P.M.)	FEBRUARY 6, 2015		
BID OPEN (1:30 P.M.)	FEBRUARY 6, 2015		
PUBLISHED IN WSJ	1/9/15, 1/16/15, 1/23/15 & 1/30/15		

PRE BID MEETING: Representatives of the Affirmative Action Department will be present to discuss the Small Business Enterprise requirements at 1600 Emil Street, Madison Wisconsin.

PRE-BID WALK THROUGH:

A single pre-bid conference will be conducted for the purposes of a pre-bid walk through and all bidding contractors are encouraged to attend.

- 1. The meeting will be held on Wednesday January 21, 2015 and the agenda will begin at 10:00 am.
- 2. Please meet in the Existing Training Room (210) of fire Station 1 located at 316 w. Dayton St. before 10:00 am. Contractors must ring the service bell at the Dayton St secured entrance door to gain access to the building. There is limited street parking. The Overture Parking Ramp is across the street from the project site.
- 3. Part of the walk through is an active construction site. All bidding contractors attending the walk-through shall be required to bring their own hard hats and safety glasses.
- 4. This will be the only opportunity for bidding contractors to walk through the site. An alternate date may be selected in the event of inclement weather as determined solely at the discretion of the City Project-Manager.
- 5. Representatives from Eppstein Uhen Architects, Inc.; JDR Engineering, Inc.; KJWW Engineering Consultants; and City Staff will be on hand to conduct the building walk through discus the plans, specifications and expectations of the contract.

QUESTIONS, CLARIFIATIONS, AND REQUESTS FOR ALTERNATES

If needed, the City of Madison and Eppstein Uhen, Inc. shall publish one (1) all inclusive addendum no later than 1:00 pm on Tuesday, January 30, 2015 to respond to any questions, clarifications, or requests for alternates.

- 1. Any questions or request for clarifications regarding plans and specifications shall be submitted directly to the Project Architect at Eppstein Uhen.
 - a. The Project Architect will further distribute questions to the appropriate consulatant or City Staff as needed.
 - All responses will be held and published by the City of Madison in the form of a bidding addendum.
 - c. See the contract contact information at the end of section D-Special Provisions for contact information. All questions shall be sent via email, reference Fire Admin Contract 6891 in the subject line.
- 2. Requests for alternates or substitutions shall be done according to Specification 01 25 13 Product Substitution Procedures and other specifications as necessary.

- a. Use the form at the end of the specification. Submit all materials to the Project Architect via email. Point of Contact information is on the last page of Bid Tab "D" Special Provisions prior to the Eppstein Uhen specification document.
- b. Contractors are cautioned to review all specifications and note whether substitutions for specific products will be allowed or not.
- 3. The deadline for receiving all questions, clarifications, and requests for alternates shall be 12:00pm (noon) on Monday, January 26, 2015.
 - No additional questions, clarifications, or requests for alternates will be received after this deadline.

PREQUALIFICATION APPLICATION: Forms are available 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.

STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2014 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 prequalified 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 \boxtimes

Buil	din	g Demolition			
101		Asbestos Removal	110		Building Demolition
120		House Mover			
<u> </u>		THERE A SHOULD BE A SHOULD BE			
	<u>eτ,</u>	Utility and Site Construction	_	_	
201	\perp	Asphalt Paving	270	=	9
205	\sqcup	Blasting	275	\sqcup	Sanitary, Storm Sewer and Water Main
210		Boring/Pipe Jacking			Construction
215		Concrete Paving	276		Sawcutting
220		Con. Sidewalk/Curb & Gutter/Misc. Flat Work	280		Sewer Lateral Drain Cleaning/Internal TV Insp.
221	\sqcap	Concrete Bases and Other Concrete Work	285		· ·
222	\Box		290	==	
225	Ī		295	_	Sóil Borings
230	Ħ		300		
235	Ħ		305		
240	Ħ		310		
	=			=	
241		Horizontal Saw Cutting of Sidewalk	315		0 0
242		Infrared Seamless Patching	318		•
245		Landscaping, Maintenance	320	=	•
250	_	Landscaping, Site and Street	325		
251	\sqcup	• .	332		, •
252		Pavement Marking	333		Tree, pesticide treatment of
255		Pavement Sealcoating and Crack Sealing	335		Trucking
260		Petroleum Above/Below Ground Storage	340		Utility Transmission Lines including Natural Gas,
		Tank Removal/Installation			Electrical & Communications
262		Playground Installer	399		
265		Retaining Walls, Precast Modular Units	000		O LITOI
200	ш	rectaining walls, i recast would office			*
Brid	ae	Construction		,	,
501		Bridge Construction and/or Repair			
501	ш	bridge construction and/or repair			
Build	dine	g Construction			
401		Floor Covering (including carpet, ceramic tile installation,	437		Metals
701	ч	rubber, VCT	440	=	
400	Г				Painting and Wallcovering
402	뮈	Building Automation Systems	445		Plumbing
403	Щ	Concrete	450	_	, ,
404	닖	Doors and Windows	455		Pump Systems
405	Ш	Electrical - Power, Lighting & Communications	460		Roofing and Moisture Protection
410		Elevator - Lifts	464		Tower Crane Operator
412		Fire Suppression	461		Solar Photovoltaic/Hot Water Systems
413		Furnishings - Furniture and Window Treatments	465		Soil/Groundwater Remediation
415		General Building Construction, Equal or Less than \$250,000	466	$\overline{\sqcap}$	Warning Sirens
420	百		470	=	Water Supply Elevated Tanks
425		General Building Construction, Over \$1,500,000	475	=	Water Supply Wells
428		Glass and/or Glazing	480		
			400	<u></u>	Wood, Plastics & Composites - Structural &
429		Hazardous Material Removal		_	Architectural
430	Ц	o,	499	Ш	Other
433	Ш	Insulation - Thermal			
435		Masonry/Tuck pointing			
Stat	<u>e o</u>	f Wisconsin Certifications			
1	\Box	Class 5 Blaster - Blasting Operations and Activities 2500 feet	and clo	oser	to inhabited buildings for quarries, open pits and
		road cuts.			and the second s
2	\Box	Class 6 Blaster - Blasting Operations and Activities 2500 feet	and clo	ne a r	to inhabited buildings for transhes, site
~	ш	excavations, basements, underwater demolition, underground			
2					
3	ш	Class 7 Blaster - Blasting Operations and Activities for structur			r than 15 in height, bridges, towers, and any of
	_	the objects or purposes listed as "Class 5 Blaster or Class 6 B			
4	\sqcup	Petroleum Above/Below Ground Storage Tank Removal and In			
5		Hazardous Material Removal (Contractor to be certified for asl			
		of Health Services, Asbestos and Lead Section (A&LS).) See t	the foll	owi	ng link for application:
		www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Pe			
		attached.			
6		Certification number as a Certified Arborist or Certified Tree W	orker:	as a	administered by the International Society of
-		Arboriculture	31.101	ع ب	annual order by the international coolety of
7			or Uis	اندر ۵	th the cortification in the seterant of turband
1	ш	Pesticide application (Certification for Commercial Applicator F			in the certification in the category of turn and
	Д,	landscape (3.0) and possess a current license issued by the D	MICP)	
8	\Box	State of Wisconsin Master Plumbers License.			

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

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

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

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

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

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

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

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

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

C-1

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

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

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

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

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

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

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

2.2 Contract Compliance

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

2.3 Certification of SBE by City of Madison

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

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

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

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

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.
- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.

2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the <u>bidder</u> with the bid: This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below

shall be deemed non-responsible and the bidder ineligible for award of this contract.

- 2.4.2.1 If the Bidder <u>meets or exceeds</u> the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:
 - 2.4.2.1.1 **Cover Page,** Page C-6; and
 - 2.4.2.1.2 **Summary Sheet,** C-7.
- 2.4.2.2 If the bidder <u>does not meet</u> the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:
 - 2.4.2.2.1 Cover Page, Page C-6;
 - 2.4.2.2.2 **Summary Sheet,** C-7; and
 - 2.4.2.2.3 **SBE Contact Report,** C-8 and C-9. (A <u>separate</u> Contact Report must be completed for <u>each applicable</u> SBE which is not utilized.)

2.5 Appeal Procedure

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

2.6 SBE Requirements After Award of the Contract

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

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

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

2.7 SBE Definition and Eligibility Guidelines

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

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

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

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

de en que mentione

SECTION D: SPECIAL PROVISIONS

FIRE STATION ADMINSTRATION OFFICE BUILDING AND FIRE STATION NO. 1 – (HOVDE PROPERTIES TENANT IMPROVEMENTS) CONTRACT NO. 6891

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.

When multiple boxes are checked, worker's wages may vary according to the type and area of work performed. It is the responsibility of the Contractor to determine and apply the appropriate wage rate for the specific work assigned.

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 \$55,500 for a single trade contract; or equal to or greater than \$271,500 for a multi-trade contract pursuant to MGO 33.07(7).

ARTICLE 103: AWARD AND EXECUTION OF THE CONTRACT

PREVAILING WAGE

The awarded Contractor shall completely execute the signing of all contract documents and submit them to City Engineering prior to <u>12:00pm on February 24, 2015</u>. No exceptions or extensions to the above date will be permitted.

ARTICLE 104: SCOPE OF WORK

This contract is for the renovation of the existing Fire Station 1 located at 316 W. Dayton Street and the build-out of city owned tenant space in the Hovde Properties project located at 309 West Johnson Street. The contractor shall refer to specification 01 10 00 – Summary for additional project summary details.

The scope of work includes the furnishing of all labor, materials, equipment, tools, and other services necessary to complete the work in accordance with the intent of this contract. The Contractor shall use properly functioning equipment capable of performing the tasks required. The Contractor shall furnish workers who perform quality work and who are experienced and knowledgeable in the work proposed.

ARTICLE 104.1: LANDS FOR WORK

Lands for work shall include all of the following:

• Existing Madison Fire Department, Fire Station 1, located at 316 W. Dayton Street. The fire station was constructed in 1967 and consists of a main ground floor with a full apparatus bay, a

SECTION 102.10:

basement mechanical room, second floor, living area and third floor dormitory area. The exterior project limits shall be any sufficient space as required for the safe and efficient execution of work related to the renovation of Fire Station 1. See Cooperation of the Contractor for additional information and requirements.

- Existing boxed out tenant space in the Hovde Properties project located at 309 West Johnson Street. The City of Madison owns approximately 30,000 square feet on multiple levels of this mixed use structure currently under construction. See Cooperation of the Contractor for additional information and requirements.
- The contractor may use the front driveway (W. Dayton St.) of Fire Station 1 between the sidewalk and overhead garage doors and the vehicle apparatus bay during the execution of this contract.

SECTION 104.2 INTENT AND COORDINATION OF CONTRACT DOCUMENTS

The contract documents are complimentary of each other and consist of all of the following:

- The City Standard Specification, 2015 Edition
- These Special Provisions including all plans and specifications as noted by the exhibits list below
- All Addendums to the bidding documents
- Any supplemental instructions, details, or specifications issued during the course of the contract.
- The following exhibits are for bidding purposes, all exhibits are PDF readable files.
 - o EXHIBIT A General (G) plan information sheets (cover, contents, etc)
 - o EXHIBIT B Architectural Site (AS) plan sheets
 - o EXHIBIT C Structural (S) plan sheets
 - EXHIBIT D Architectural (A) plan sheets
 - o EXHIBIT E Architectural Demolition (AD) plan sheets
 - EXHIBIT F Fire Protection (F) plan sheets
 - o EXHIBIT G Plumbing (P) plan sheets
 - o EXHIBIT H Mechanical (M) plan sheets
 - o EXHIBIT I Electrical (E) plan sheets
 - o EXHIBIT J Technology (T) plan sheets
 - o EXHIBIT K Fire Station Alerting System (FSAS) plan sheets
 - o EXHIBIT L Volume 1-Specs Div 1-14
 - EXHIBIT M Volume 2-Specs Div 21-33
 - Divisions 15-20 are not used
 - The Contractor should be aware that the specification titles listed in the Table of Contents of each volume are linked to the first page of that specification.
- The following exhibits are provided for reference of the existing Fire Station 1 facility only. This exhibit is a PDF readable file.
 - Exhibit N 1967 FS1_Admin Plan Set

SECTION 105.5: INSPECTION OF WORK

The Contractor shall coordinate directly with any and all regulatory agencies having jurisdiction over the licensing, permitting, and inspection, of work as described in these construction documents.

The Contractor shall be familiar with Specification 01 45 16-Field Quality Control Procedures regarding City of Madison policies and procedures for Quality Assurance and Quality Control.

SECTION 105.6: CONTRACTORS RESPONSIBILITY FOR WORK

The Contractor shall not take advantage of any discrepancy in the plans or specifications. This shall include but not be limited to apparent errors, omissions, and interpretations involving codes, regulations, and standards.

Any Contractor who identifies such a discrepancy during the bidding process shall notify the Project Architect and City Project Manager of the discrepancy prior to the "Questions and Clarifications Deadline" as noted in Section A of the bid documents.

Any Contractor who identifies such a discrepancy during the abatement process shall immediately notify the Project Architect and City Project Manager in writing and request clarification on how to proceed. See Specification 01 26 13-Request for Information (RFI).

If a conflict exists within the Specifications or exists within the Drawings, the Contractor shall perform the work that most closely fits the City's intent of this contract.

SECTION 105.7: CONTRACT DOCUMENTS

The General Contractor is responsible for reproducing all construction documents necessary to complete the Work at their own cost. This shall include plans, specifications, addenda for the General Contractor and all Sub-contractors.

SECTION 105.9: SURVEYS, POINTS AND INSTRUCTIONS

The General Contractor is responsible for providing all survey, benchmarks, points, and elevations required for this project.

SECTION 105.12: COOPERATION BY THE CONTRACTOR

The Contractor shall provide the City Project Manager and the Project Architect with a five (5) working day notice when it becomes necessary to do either of the following:

- Gain access to and conduct work in non City owned space of the Hovde Properties project. The following requirements shall apply:
 - o Provide an anticipated work schedule that access will be required
 - All tools, equipment, and materials shall be mobile and shall be removed from non City owned space at the end of each work day.
- Use the alley adjacent to the project south property line. This alley is owned by Capital Centre
 Court Apartments and is a Public Fire Lane by easement. The Madison Fire Department has
 placed the following restrictions on using the alley for work:
 - o Semi-permanent structures such as scaffolding will not be permitted.
 - Contractor will vacate the alley immediately if required to do so, at anytime, by the Madison Fire Department.
 - Any equipment being used by the Contractor in the easement must be motorized, easily removed, and always attended with a qualified operator.
 - Equipment must be removed from the alley went not being actively used including after hours.
 - Provide two (2) traffic barrels and one (1) ROAD CLOSED sign at each end of the alley.
 Cost of all traffic control measures required shall be part of the Contractors lump sum base bid.

The City Project Manager and Project Architect shall notify the adjacent property owners and the contractor on the adjacent construction site of the dates and duration the alley will be closed.

The Contractor shall review all other specifications within the construction documents for other requirements and coordination of work associated with this contract.

SECTION 107.2 PROTECTION AND RESTORATION OF PROPERTY

The Contractor shall follow these general guidelines while performing work associated with this contract:

- See Specification 01 76 00-Protecting Installed construction for more information.
- All damage, not consistent with requirements of the contract documents, to either building shall be repaired or replaced to the original or better condition at the Contractor's expense.
- The Contractor shall be responsible for protecting all mature trees including limbs and branches during all exterior construction activities. This shall include the use of any equipment required to assist work being completed under this contract.
 - This shall also apply to trees directly across the street from the construction site as well as trees on adjacent properties.
 - The Contractor shall replace any damaged tree with similar specimen and size as directed by the City of Madison at the Contractor's expense.

SECTION 108.2 PERMITS AND LICENSING

The Contractor shall be required to provide to apply, pay for and obtain all permits or licenses that may be required by these contract documents regardless of ordinance, statute, or other regulatory requirement.

SECTION 109.7 TIME OF COMPLETION

Work shall begin only after the contract is completely executed and the start work letter is received. It is anticipated that the start work letter shall be issued on or about March 23, 2015.

The Contractor shall review Specifications 01 29 76 Progress Payment Procedures and 01 77 00 Closeout Procedures and be completely familiar with progress payment milestones and definitions related to construction closeout and contract closeout.

The Contractor shall have reached a level of <u>Construction Closeout</u> **NO LATER THAN November 20, 2015.** This milestone by definition in the specifications <u>includes Owner Occupancy</u> of all Madison Fire Department spaces in both Fire Station 1 and the Hovde Properties project.

The Contractor shall have reached a level of <u>Contract Closeout</u> **NO LATER THAN January 4, 2016. SECTION 109.7 LIQUIDATED DAMAGES**

The fixed, agreed and liquidated damages for failure to complete Construction Closeout by the above specified date shall be <u>\$1155.00</u> per calendar day for each calendar day in which the work remains incomplete.

The fixed, agreed and liquidated damages for failure to complete Contract closeout by the above specified date shall be **\$400.00** per calendar day for each calendar day in which the contract remains open.

In no case shall the total fixed, agreed and liquidated damages exceed \$1155.00 per calendar day.

NON STANDARD BID ITEMS

BID ITEM 90001 - BASE BID

DESCRIPTION: The BASE BID shall include the complete installation of all building, mechanical, site, and utility components; the accepted testing, and commissioning of all systems; and the completion, and turn-in of all deliverables as outlined in the plans and specifications.

METHOD OF MEASUREMENT: The BASE BID shall be measured as Lump Sum of the required construction and installations described in the plans and specifications. Partial Payments shall be requested as indicated in Specifications 01 29 73-Schedule of Values and 01 29 76-Progress Payment Procedures.

BASIS OF PAYMENT: The BASE BID shall be paid at the contract unit price. Partial payments shall be reviewed and authorized as described in the above referenced specifications.

POINTS OF CONTACT

We ask all Contractors with questions and concerns regarding the bidding of these contract documents to do so by email so we may properly log, track and respond to all issues.

* Reference Fire Admin Contract 6891 in the subject line of all emails

The Project Manager for City Engineering, Facility Management for this contract is:

Jeanne Hoffman

Facility Management and Sustainability Coordinator

PH: (608) 266-4091

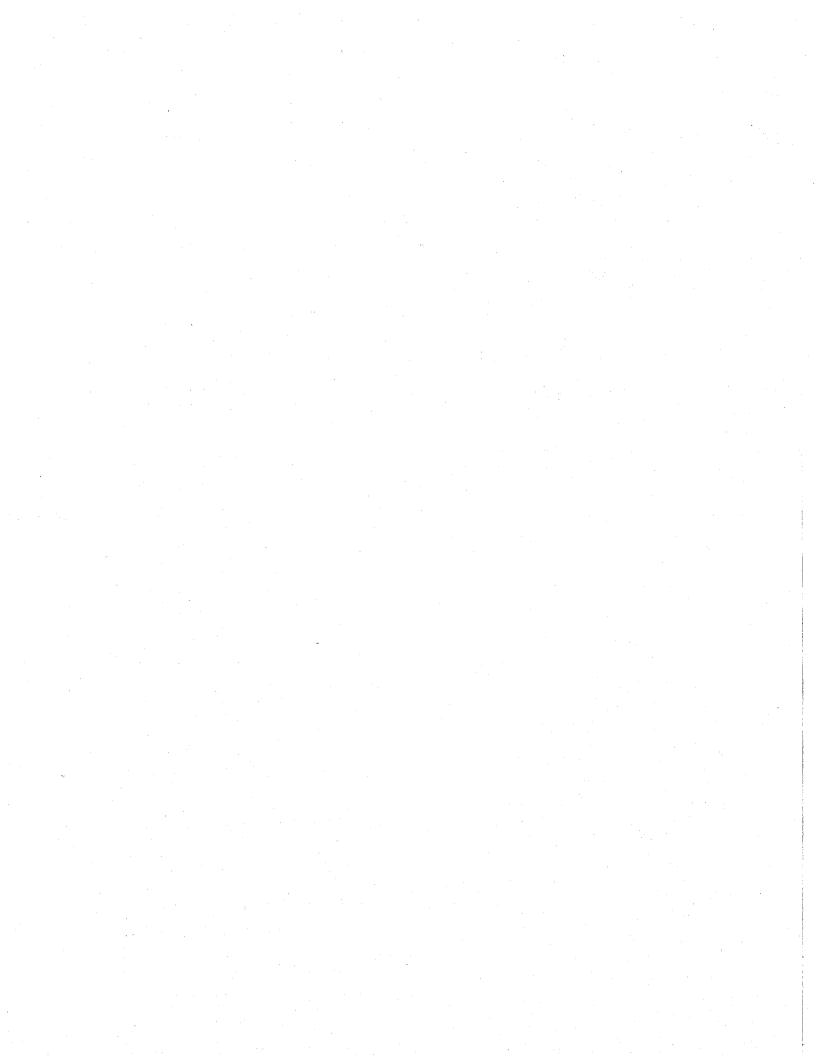
Email: <u>ihoffman@cityofmadison.com</u>

The Project Architect for this contract is:

Mr. Jon Robelia, AIA
Project Architect
Eppstein Uhen Architects
Email: jonr@eua.com

Alternate:

Mr. Clifford Goodhart Senior Project Manager Eppstein Uhen Architects Email: <u>cliffg@eua.com</u>





January 30, 2015

Department of Public Works

Engineering Division

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

City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4751
Fax: (608) 264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

Assistant City Engineer Michael R. Dailey, P.E.

Principal Engineers

Christina M. Bachmann, P.E. John S. Fahrney, P.E.

Gregory T. Fries, P.E.

Christopher J. Petykowski, P.E.

Facilities & Sustainability Jeanne E. Hoffman, Manager

> Operations Manager Kathleen M. Cryan

Mapping Section Manager

Eric T. Pederson, P.S.

Financial Manager Steven B. Danner-Rivers

> Hydrogeologist Brynn Bemis

NOTICE OF ADDENDUM ADDENDUM NO. 1

CONTRACT NO. 6891, PROJECT NO. 53W1434 FIRE STATION ADMIN OFFICE BUILDING and FIRE STATION 1

Revise and amend the contract document(s) for the above project as stated in the attached four (4) pages of this addendum, otherwise, the original document shall remain in effect.

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at https://www.bidexpress.com/

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

For questions regarding this bid, contact:

Randy Wiesner City of Madison Engineering

Phone: 608-267-8679 Fax: 608-264-9275

Email: rwiesner@cityofmadison.com

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



Office of City Engineering
City Engineering
Room 115, City County Building
210 Martin Luther King Jr. Boulevard
Madison, WI 53703-3346
TEL: 608/266-4751 FAX: 608/264-9275

Website: www.cityofmadison.com/engineering.html

ADDENDUM NO. 1 City of Madison, Engineering Department

CONTRACT NO. 6891, PROJECT NO. 53W1434 FIRE STATION ADMIN OFFICE BUILDING and FIRE STATION 1

This addendum is issued to modify, explain or correct the original Drawings, Specifications, or Contract Documents marked as *Fire Station Admin Office Building and Fire Station 1, City of Madison Project #53W1434, Contract #6891*, as issued on January 9, 2015 and is hereby made a part of the contract documents.

This addendum consists of the following documents:

- Addendum summary, four (4) page(s) of text
- Republished Specification Sections, five (5) PDF files of text
- Republished Drawing Sheets, thirty-one (31) individual sheet PDF files
- Pre-bid Walk-thru Sign-in Sheet, one (1) PDF file

Please attach these Addendum documents to the Drawings and Project manual in your possession.

1. GENERAL CONTRACT CONDITIONS

A. Contract Documents, Section A: Advertisement for Bids and Instruction to Bidders, page A-1; please change the date in sentence 1 under Questions, Clarifications, and Requests for Alternates to read **Friday**, January 30, 2015.

2. GENERAL QUESTIONS AND ANSWERS

- A. Q. What is required for the existing catch basin located in the Turnout Gear Storage Room?
 - **A.** Refer to plumbing demolition drawing PD100 for requirements associated with the existing catch basin.
- B. **Q**. HVAC calls for the grille opening into Storage Room 201 to be demolished on MD102. Is it to be infilled by the GC?
 - A. Wall opening will be reused and enlarged for new door and duct above.

3. SUBSTITUTIONS

The following materials or products have been reviewed and are considered to be acceptable equivalent substitutions to products already specified in the contract documents.

- A. Specification 10 14 00, Signage, approved for interior and exterior signage Creative Sign Company, 505 Lawrence Dr., DePere, WI, (920)-336-8900
- **B.** Specification 07 27 20, Fluid Applied Vapor Permeable Air Barrier Membrane: TK Products; TK-AirMax 2104 and BASF Corp.; Enershield-HP.
- C. Specification 08 11 13, HM Doors and Frames, Interior: Mesker Doors.
- D. Specification 23 82 00 Convection Heating and Cooling Units (Hot Water)
 - i. Vulcan shall be added as an acceptable manufacturer for the following equipment:
 - Convectors

4. SPECIFICATIONS

Specifications contain the revisions noted below or have been added to the document set.

- A. Specification 01 25 13: Replace this Section in its entirety, revisions highlighted.
- B. Specification 01 50 00: Replace this Section in its entirety, revisions highlighted.
- C. Specification 06 41 00: Add custom lectern and brush-type grommets to this section.
 - i. Add Part 1.1.E "E. Custom-fabricated multimedia lectern."
 - ii. Add Part 2.8 "CUSTOM-FABRICATED MULTIMEDIA LECTERN."
 - iii. Add Part 2.8.1 "Provide Model MFI #28654MW/MLP 45, Wilson Art #7965K Walnut Heights, Wilsonart Laminate #7965K Walnut Heights, Matte as manufactured by Marshall



Furniture Co., 999 Anita Ave., Antioch, IL. 60002

- iv. Add Part 2.5.F "Brush Grommets: Continuous grommet and extrusion, in color as selected by Architect. Provide where indicated on drawings. Manufacturer: Doug Mockett & Company. Model BREXT.
- **D.** Specification 07 27 20: Add the following acceptable manufacturers:
 - i. Part 2.1.A.1.a "TK Products; TK-AirMax 2104
 - ii. Part 2.1.A.1.b "BASF Corp.; Enershield-HP.
- E. Specification 08 80 00: Add glass smoke baffle system.
 - i. Add Part 1.1.B.4 "4. Glass smoke baffle system."
 - ii. Add Part 2.11 "GLASS SMOKE BAFFLE SYSTEM."
 - iii. Add Part 2.11.A "Glass Type GL-5: Clear fully tempered float glass. Total thickness: 1/2". Two Piece Smoke Baffle Base Shoe: CRL Blumcraft Satin Anodized SB200.
- F. Specification 08 11 13: Add the following acceptable manufacturers:
 - i. Part 2.1.A.5 Mesker Doors.
- G. Specification 10 14 00: Replace this Section in its entirety, revisions highlighted.
- H. Specification 10 51 00: Replace this Section in its entirety, revisions highlighted.
- I. Specification 23 05 23.10: Add Buffer Tanks
 - i. Add Scope: Part 2 Products: Buffer Tanks (page 1, line 36)
 - ii. Add Scope: Part 3 Execution: Buffer Tanks (page 2, line 6)
 - iii. Part 2 Products Page 7, lines 1-11: Insert Buffer Tanks as follows:
 - BUFFER TANKS
 - a. Manufacturers:
 - i. A.O. Smith "Custom Line," or Wessels.
 - b. Description:
 - i. Steel construction with prime coat finish, internal epoxy lining, tested and stamped in accordance with Section 8D of ANSI/ASME Code and furnished with National Board Form U-1, rated for working pressure of not less than 125 PSI. Tank shall have top air vent tapping, drain valve tapping, system supply and return tappings, and angle legs for vertical installations. Tank shall have internal baffles as specified on Drawings. Size and capacity as specified on Drawings. Refer to Drawings for quantity and locations of tank tappings.
 - iv. Part 3 Execution Page 11, lines 1-5: Insert Buffer Tanks as follows:
 - BUFFER TANKS
 - a. Install tank where indicated on Drawings, coordinating concrete base installation with General Contractor. Provide structural supports required, including hanger rods for suspended installation and steel supports for wall mounted installations. Fabricate supports to suit application. Install specified tank accessories.
- J. Specification 23 36 00: Remove "Carrier" from the list of acceptable manufacturers.
- K. Specification 27 05 53: Identification and Administration.
 - Revise section 2.1.F to require contractor to coordinate labeling scheme with City of Madison staff during pre-installation meeting.
- L. Specification 27 41 43: Audio-Visual Accessories, revised January 26, 2015. New specification. Insert to the appropriate place in Volume II of the specifications.

5. DRAWINGS

Individual drawing sheets contain the revisions noted below and each sheet indicated has been republished with this addendum. Revisions on the sheet can be identified by a "cloud" and revision triangle.

- A. G000 (not re-published):
 - i. Corrected name listed for Sheet A340 to match name shown on sheet: "FIRE ADMIN LOBBY STAIR SECTIONS AND DETAILS".
- B. AD102 ADDENDUM 1:
 - i. Revised keynotes in Kitchen 203 regarding removal and reinstallation of existing kitchen equipment.
- C. A100 ADDENDUM 1:
 - i. Added general note regarding new sealant at precast floor panels.
- D. A101 ADDENDUM 1:



- i. Added general note regarding new sealant at precast floor panels.
- ii. Changed keynote 2651-01 to 0836-02 to align with proper specification section
- E. A102 ADDENDUM 1:
 - i. Added general note regarding new sealant at precast floor panels.
- F. A103 ADDENUDM 1:
 - i. Added general note regarding new sealant at precast floor panels.
 - ii. Changed type of one partition from "S3A 11" to "S6A 11"
- G. A107 ADDENDUM 1:
 - i. Changed type of two partitions from "S3A 11" to "S6A 11"
 - ii. Changed locker layout and added bench in Locker 262B and in Locker 263B
- H. A121 ADDENDUM 1:
 - i. Changed wall paint designation in Apparatus Bay 104 from PT-13 to PT-10
- I. A210 ADDENDUM 1:
 - i. Changed keynote in D2/A210 regarding removal and reinstallation of existing sink unit
- J. A232 ADDENDUM 1:
 - i. Changed locker layout and added bench in elevations B6/A232 and B7/A232
- K. A235 ADDENDUM 1:
 - i. Updated dimension in elevation C3 due to partition type change
- L. A340 (not re-published):
 - i. For elevations A1 and A5/A340, please refer to related elevations A1 and A5/A230 for wall-mounted lighting locations
- M. A400 ADDENDUM 1:
 - i. In C6/A400, changed keynotes regarding kitchen equipment
- N. A420 ADDENDUM 1:
 - i. In A1/A420, changed locker layout and added bench in Locker 262B and in Locker 263B
- O. A601 ADDENDUM 1:
 - i. Edited material schedule remark 15 to include hollow metal doors
- P. POOO ADDENDUM 1:
 - i. Added "BASIN SHALL CONFORM TO ASTM 478" to PLUMBING DRAIN AND CLEANOUT SCHEDULE.
 - ii. Revised sanitary ejector (SE-1) basin and cover description in EJECTORS AND SUMP PUMPS SCHEDULE.
- Q. PD102 ADDENDUM 1:
 - i. Added Keyed Note #5 stating to remove and replace existing three compartment sink.
- R. P100 ADDENDUM 1:
 - i. Added Keyed Note #17 stating that sanitary ejector (SE-1) basin, floor drain, and piping from floor drain in generator vault is by Hovde building contract.
- S. MD101 (not re-published):
 - i. Added keyed note 26 and assign to the existing air compressor. Keyed note 26 shall read as follows:
 - "HC SHALL BE RESPONSIBLE FOR REMOVAL, SALVAGE, AND RELOCATION OF THE EXISTING BAUER AIR COMPRESSOR. REFER TO SHEET M101 FOR ADDITIONAL REQUIREMENTS."
- T. MD102 (not re-published):
 - i. Modified keyed note 27 to read as follows:
 - "REMOVE EXISTING KITCHEN HOOD AND RANGE/OVEN. SALVAGE FOR RELOCATION. DISCONNECT FIRE SUPPRESSION FROM HOOD. HC TO CLEAN HOOD AND FILTERS. ALL WORK ASSOCIATED WITH THE KTICHEN HOOD, RANGE/OVEN, AND FIRE SUPPRESSION IS THE RESPONSIBILITY OF THE HC. REFER TO M102 FOR NEW WORK."
- U. M101 (not re-published):
 - i. Modified keyed note 24 to read as follows:
 - "BAUER AIR COMPRESSOR (E) SHALL BE RELOCATED BY HC."
- V. M300 ADDENDUM 1:
 - Modified chilled water piping to add a buffer tank into the primary loop. Plan and sections modified to reflect the associated revisions.
- W. M301 (not re-published):
 - i. Plan 1/M301: Move keyed note 19 from louver L-2 to louver L-1. Louver L-1 shall be furnished by owner, installed by HC.



X. M800 ADDENDUM 1:

i. Added "Buffer Tank Schedule" to the schedule sheet.

Y. M902 ADDENDUM 1:

i. Added detail 10/M902 - "Buffer Tank Detail".

Z. E000 ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

AA.E002 ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

BB.E100P ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

CC.E101L ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

DD.E101P ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

EE. E102L ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

FF. E102P ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

GG. E103L ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

HH. E103P ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

II. E104P ADDENDUM 1:

i. Multiple plan updates. Refer to drawing for revisions.

JJ. T600 ADDENDUM 1:

i. Camera (CCTV) type schedule

• Revised part numbers of video surveillance cameras. Cameras are Owner furnished, Contractor installed.

KK.T601 ADDENDUM 1:

- i. Modified <u>VS-CAM-1</u>, <u>VS-CAM-C</u> and <u>VS-CAM-W</u> to reflect cameras are Owner furnished, Contractor installed.
- ii. Revised referenced specification section in description of item <u>VS-PS-1</u> to be 28 20 00.

PROPOSAL

This section is not used.

SECTION C

Downloadable forms in Section C only on Bid Express were found to be corrupt and have been replaced.

END OF ADDENDUM.

	•				
		en e			
				•	-
en e					
			•		
	· ·				

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Temporary utilities.
- B. Temporary telecommunications services.
- C. Temporary sanitary facilities.
- D. Drinking water.
- E. Security requirements.
- F. Vehicular access and parking.
- G. Waste removal facilities and services.
- H. Project identification sign.
- I. Field offices.

1.2 QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations if authorities having jurisdiction, including but not limited to:
 - 1. Building Code requirements.
 - 2. Health and safety regulations.
 - 3. Utility company regulations.
 - 4. Police, Fire Department and Rescue Squad rules.
 - 5. Environmental protection regulations.
 - 6. Joint Commission Hospital Accreditation Standards.
- B. Standards: Comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations," ANSI A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA Electrical Design Library "Temporary Electrical Facilities."
- C. Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service in compliance with NFPA 70 "National Electric Code."

1.3 TEMPORARY UTILITIES

- A. Owner will provide the following:
 - 1. Electrical power and metering, consisting of existing facilities.
 - 2. Water supply, consisting of existing facilities.
- B. General:
 - 1. Existing facilities may be used.
 - 2. New permanent facilities may be used.
- C. Water Service: water is available from existing building services.
 - 1. Use trigger-operated nozzles for water hoses, to avoid waste of water.

- D. Temporary Electric Power Service: Electrical Contractor shall extend temporary power from existing building services.
- E. Temporary Lighting: Electrical Contractor shall provide temporary lighting with local switching.
 - 1. Install and operate temporary lighting that will fulfill security and protection requirements, without operating the entire system, and will provide adequate illumination for construction operations and traffic conditions.
- F. Temporary Heat: General Contractor shall provide temporary heat required by construction activities, for curing or drying of completed installations or protection of installed construction from adverse effects of low temperatures or high humidity. Select safe equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce the ambient condition required and minimize consumption of energy.
 - 1. Heating Facilities: Except where use of the permanent system is authorized, provide vented self-contained LP gas or fuel oil heaters with individual space thermostatic control.
 - a. Use of gasoline-burning space heaters, open flame, or salamander type heating units is prohibited.

1.4 TELECOMMUNICATIONS SERVICES

- A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization through construction closeout.
- B. Telecommunications services shall include:
 - 1. Windows-based personal computer dedicated to project telecommunications, with necessary software and laser printer.
 - 2. Email: Account/address reserved for project use.
 - 3. Telecommunications services shall be able to support up to ten (10) laptop or tablet devices at any given time ¹.

1.5 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Temporary toilets: Comply with regulations and health codes for the type, number, location, operation, and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.
 - 1. Provide toilet tissue, paper towels, paper cups, and similar disposable materials for each facility. Provide covered waste containers for used material.
 - 2. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy.
- C. Maintain daily in clean and sanitary condition.
- D. Water: Provide potable water approved by local health authorities.

1.6 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

1.7 FENCING

A. Construction: Contractor's option.

1.8 EXTERIOR ENCLOSURES

A. Provide temporary weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.9 SECURITY

A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

1.10 VEHICULAR ACCESS AND PARKING

- A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
- B. Coordinate access and haul routes with governing authorities and Owner.
- C. Provide and maintain access to fire hydrants, free of obstructions.
- D. Existing parking areas located at Dayton Street in front of Fire Station #1 may be used for construction parking until Station #1 is occupied by Owner.

1.11 WASTEREMOVAL

- A. See Section 01 74 19 Waste Management, for additional requirements.
- B. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- C. Provide containers with lids. Remove trash from site periodically.
- D. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- E. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.12 PROJECT IDENTIFICATION

- A. Provide project identification sign of design and construction indicated in Section 01 58 13.
- B. Erect on site at location determined by Owner.
- C. No other signs are allowed without Owner permission except those required by law.

1.13 FIELD OFFICES

A. Office: Weathertight, with lighting, electrical outlets, heating, cooling equipment, and equipped with sturdy furniture, drawing rack and drawing display table.

- B. Provide space for Project meetings, with table and chairs to accommodate *a minimum of fifteen* (15) persons.
- C. Field Office may be located in Station #1.
- D. Provide a minimum 40" LCD wall mounted monitor with HDMI connection, or digital projection device ¹.
 - 1. To be used during progress meetings in connection with reviewing construction progress on the Project Management Web Site (Specification 01-31-23) hosted by the Owner.

1.14 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion inspection.
- B. Remove underground installations to a minimum depth of 2 feet (600 mm). Grade site as indicated.
- C. Clean and repair damage caused by installation or use of temporary work.
- D. Restore existing facilities used during construction to original condition.
- E. Restore new permanent facilities used during construction to specified condition.

PART 2 PRODUCTS

2.1 TEMPORARY PARTITIONS

- A. Provide dustproof partitions to limit dust and dirt migration and to separate occupied areas from fumes and noise.
 - 1. Non-fire rated partions, standard:
 - a. Wood strud framing, 6-mil polyethene.

2.2 EQUIPMENT

- A. Temporary Lifts and Hoists: Contractors requiring temporary lifts and hoists shall provide facilities for hoisting materials and employees.
- B. Electrical Outlets: Electrical Contractor shall provide properly configured NEMA polarized outlets to prevent insertion of 110-120 volt plugs into higher voltage outlets. Provide receptacle outlets equipped with ground-fault circuit interrupters, reset button and pilot light, for connection of power tools and equipment.
- C. Electrical Power Cords: Contractors requiring power cords shall provide grounded extension cords; use "hard-service" cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
- D. Lamps and Light Fixtures: Electrical Contractor shall provide general service incandescent lamps of wattage required for adequate illumination. Provide guard cages or tempered glass enclosures, where exposed to breakage. Provide exterior fixtures where exposed to moisture.
- E. Heating Units: General Contractor shall provide temporary heating units that have been tested and labeled by UL, FM or another recognized trade association related to the type of fuel being consumed.
- F. First Aid Supplies: General Contractor shall provide first aid supplies complying with governing regulations.

G. Fire Extinguishers: General Contractor shall provide hand-carried, portable UL-rated, fire extinguishers of NFPA recommended classes for the exposures, extinguishing agent and size required by location and class of fire exposure.

PART 3 EXECUTION

3.1 TEMPORARY FIRE PROTECTION:

- A. Until fire protection needs are supplied by permanent facilities, General Contractor shall install and maintain temporary fire protection facilities of the types needed to protect against reasonably predictable and controllable fire losses.
- B. Comply with NFPA 10 "Standard for Portable Fire Extinguishers," and NFPA 241 "Standard for Safeguarding Construction, Alterations and Demolition Operations."
- C. Locate fire extinguishers where convenient and effective for their intended purpose.
- D. Store combustible materials in containers in fire-safe locations.
- E. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities, stairways and other access routes for fighting fires.
- F. Prohibit smoking on the premises.
- G. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
- H. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site.
- I. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.

3.2 COLLECTION AND DISPOSAL OF WASTE:

- A. Collect waste from construction areas and elsewhere daily.
- B. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly.
- C. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F.
- D. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

3.3 ENVIRONMENTAL PROTECTION:

- A. Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result.
- B. Avoid use of tools and equipment which produce harmful noise.
- C. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons or firms near the site.

1 - Addendum #1

END OF SECTION

			•		
				· -	
·					
			- -		
•	•				
				• • • • • • • • • • • • • • • • • • • •	
		term to			
		•	•		
				- -	
•					
			2 - 1		
	•				
			*		

1				SECTION 27 41 23
2				AUDIO-VIDEO ACCESSORIES
4	PART	1 – G	FNFRAI	
5		1.1.		
6		1.2.	*	IFICATIONS
7		1.3.		PONSIBILITY
8		1.4.		
9		1.5.		
10				
1.		2.1.		RNISHED BY OWNER
.2		2.2.		RNISHED BY CONTRACTOR
.3		2.3.		DRS
.4		2.4.		S (MONITOR)
.5		2.5.		
.6		2.6.		
7				
8		3.1.		COORDINATION
9		3.2.		ALLATION REQUIREMENTS
0		3.2.		ISTALLATION, TESTING, AND ACCEPTANCE
1	•	J.Z.	EQUII WENT II	DIALECTION, 1201110, AND ACCEL TO THE IMMENSION OF THE IM
2	PART	1 – G	ENERAL	
3	17311		LIVEITAL	
4	1.1.	SU	MMARY	
5		Α.		ation shall identify equipment components and accessories required for to complete Audio-Video
5				ations not previously identified in other Division 27 specifications. It does not include materials such
7				exes, connectors, conduit, supports and other ancillary equipment required to complete the
3 .			installation.	was, connectors, contains, supports and other anomary equipment required to complete the
9		В.		ation shall clearly identify responsibilities of various contractors and the Owner including project
0		D.		n, installation, and testing of installed components.
1		C.		oses of this specification the term Contractor shall refer to the person(s) responsible for installing
2		С.		ing the A/V components and equipment described herein, and may or may not be the same
3				installing other Division 27 and 28 related equipment. Other contractors having related work shall be
4				by full title (Electrical Contractor).
5			referred to a	in the telephon contractory.
5	1.2.	RFI	ATED SPECIFICA	TIONS
7	1.2.	A.	01 31 23	Project Management Web Site
3		В.	01 33 23	Submittals
9		C.	01 78 23	Operation and Maintenance Data
0		D.	01 78 36	Warranties
1		E.	01 78 39	As-Built drawings
				27 specifications that may apply to this installation
2		F. G.		on specifications that may apply to this mistaliation
3 -		G.	Other divisio	is specifications that may apply to this work for coordination
4	1 2	A DE	AS OF RESPONS	NDII ITV
5	1.3.			
6 7		Α.		Contractor shall be responsible for ensuring all of the following:
				dinate with the Contractor and the Owner or Owners Representative the scheduling, purchasing,
8				receiving of all Owner provided products and equipment.
9				dinate all Contractor related work with the construction schedule.
0				dinate all required Work with the Contractor and other trades during pre-installation meetings and
1		_		ve installation issues as needed.
2		В.		tor shall be responsible for all of the following:
3				t coordination with the Owner or Owners Representatives for all equipment being provided and/or
4				gured by the Owner.
5				ication of Owner installation requirements prior to installing equipment and accessories.
6		C.		or Owners Representatives shall be responsible for all of the following:
7				dinating all purchases and deliveries of the Owner provided equipment to the project site with the
8			GC at	nd Contractor so as not to delay the installation or project schedule.

1 2 3			Coordinate the pre-installation configuration of any A/V equipment so as not to delay the installation of project schedule.
4	1.4.	SUBIV	1ITTALS
5		A.	The Contractor shall not be required to provide submittals for equipment being provided by the Owner but sha
6			provide submittals for ancillary equipment as needed under this specification or other Division 27 specifications
7		В.	The Contractor shall provide submittals of the following:
8			1. All applicable certifications and licenses of the Contractor and the Contractor's installation team.
9			Applicable certifications and licenses shall be current from the start of the contract through the end of
10		~ .	the warranty period.
11			2. One (1) submittal for <u>all</u> ancillary A/V and A/V Contractor provided equipment required for a complete
12			A/V installation as follows:
13			a. Product information sheets and shop drawings indicating each type/size/model of A/V accessory
14			required for a complete A/V installation. Information sheets shall include the following
15			information:
16			i. Performance data for the item
17			ii. Plan identification number(s) where applicable
18			iii. Quantity required for each model
19			
20	1.5.	WARE	RANTY
21		Α.	The Contractor shall warrant for one year the complete installation of equipment and components associated
22		,	with this contract and installation. Contractors warranty shall be in the form of a written letter on company
23			letterhead referring to the contract information, dates of installation and acceptance, signed by an authorized
24			representative of the Contractors Company.
25			1. The Contractors warranty shall include but not be limited to the following:
26			a. Transportation to and from the location as often as needed during the warranty period.
27			b. All labor and materials necessary to properly and thoroughly trouble shoot the system.
28			c. All fees associated with the shipping of any component that needs to be returned or supplied by
29			the manufacturer for repair or replacement.
30			
		В.	
31		ь.	The Contractor shall also provide all manufacturers warranties/guarantees associated with installed component
32			of the completed installation.
33	DADT	3 000	DUCTS
34	PARI	2 - PRO	DUCIS
35	2.4	DDOD	HOTE FURNICHED BY OWNED
36	2.1.		UCTS FURNISHED BY OWNER
37		A.	The following products shall be furnished by the owner under this specification.
38			1. Wall monitors as indicated in the plans and specifications (see section 2.3 below).
39			2. IPTV cable boxes
40			
41	2.2.		UCTS FURNISHED BY CONTRACTOR
42		Α.	The Contractor shall furnish all material and equipment required for a complete A/V installation per the plans
43			and specifications except where indicated as furnished by Owner.
44		В.	All products, materials and equipment furnished by the contractor shall be new and meet all applicable codes.
45		C.	The Contractor shall provide the following equipment as noted within this specification:
46			1. All monitor wall mounts
47			2. Press Box
48			
49	2.3.	WALL	MONITORS
50		A.	New wall monitors furnished by Owner shall be of like kind and quality to the monitors listed in the Technology
51			Equipment Schedule on sheet T-601 of the plan set.
52		В.	Existing wall monitors furnished by the Owner shall be similar in quality to those listed in the Technology
53			Equipment Schedule on sheet T-601 of the plan set.
54		C.	Monitor sizes, quantities, and room locations shall be as listed in the Monitor Schedule on sheet T-501 of the
55			plan set.

56

57

Sizes shall include 30", 39", 42", 60", and 80" monitors.

2.4. WALL MOUNTS (MONITOR) 1 2 The Contractor shall provide wall mount brackets for all wall monitor installations noted in the construction 3 documents. 4 В. Wall mount brackets shall be appropriately sized to support the monitor sizes described in the construction 5 documents. 6 C. Each monitor in ganged monitor applications shall have its own mounting bracket, shared brackets will not be 7 allowed. All mounting brackets in ganged monitor applications shall be similar models by the same 8 9 D. Wall mount brackets for monitors shall meet the following requirements regardless of size: 10 1. Black powder coat finish 11 2. Minimum vertical tilt +15/-5 degrees 12 3. Thin profile to minimize wall clearance when installation is complete The following list of locations shall have fully articulating arms with a minimum 18" horizontal extension 13 to provide a wide range of motion and/or to facilitate the removal of the monitor without having to 14 remove adjacent monitors. 15 Parkinson Hall 16 Office spaces 17 b. 18 Conference and Breakout Rooms C. Fitness Rooms 19 d. 20 e. Dining Room f. Training Room 21 Dayroom 22 5. The following list of locations shall have vertical tilt only. 23 24 a. Sleeping Quarters 25 b. Kitchenette Break Room 26 c. 6. Models as manufactured by: 27 Peerless-AV 28 a. Chief Manufacturing 29 b. Omnimount 30 c. 31 d. **Premier Mounts** 32 Video Mount Products No other substitutions will be allowed 33 34 35 2.5. IP CABLE BOX IP Cable Boxes shall be provided by the Owner and installed by the Contractor. This section is being provided as 36 37 informational only. The Contractor shall be responsible for providing/installing the input to the cable box and 38 the output to the monitor. Amino Communications, Aminet A140, cable box (with no DVR) 39 40 Input = Ethernet 10/100 BaseT via RJ-45 shielded connector b. Output = HDMI 1.3A with HDCP 41 Power = 120V c. 42 Decodes up to 720p and 1080i; displays up to 1080p 43 d. 44 HD graphics up to 1280x720 2. Amino Communications, Aminet A540, cable box (with DVR) 45 46 Input = Ethernet 10/100 BaseT via RJ-45 shielded connector a. b. Output = HDMI 1.3A with HDCP 47 Power = 120V 48 c. d. Decodes up to 720p and 1080i; displays up to 1080p 49 50 HD graphics up to 1280x720 51 В. The Owner shall designate which model is required at each location. 52 PRESS BOX 53 2.6. 54 Provide and install one (1) portable press feed distribution box. PressPower2 as manufactured by U.S.Audio, WhirlwindUSA 55 56 Substitutions shall not be allowed

57

PART 3 - EXECUTION

1 2 3

4

5

6

7

8

9

10

11 12

13

14

15

16

17

18 19

20

21 22

23

24

25

26

27

28 29

30

31

32

33

34

35

36 37

38

39

40

41 42

43

44

45 46

47

48

49

50

51

52

53 54

55 56

57

3.1. CONTRACTOR COORDINATION

- A. The Contractor shall coordinate with the General Contractor (GC) and all other trade contractors as needed for the installation of the A/V Accessories. Coordination shall include a pre-installation meeting during rough-in to ensure blocking, power outlets, and data outlets are properly located.
- B. The Contractor shall review all plans and specifications indicating wall and position requirements for accessory A/V equipment and install all required equipment accordingly.
 - 1. The Contractor shall coordinate all connection and installation requirements with other trade contractors doing Division 27 Work.

3.2. GENERAL INSTALLATION REQUIREMENTS

- A. Cables/cords shall be properly plugged in. Excess cable/cord shall be neatly looped and bundled using Velcro cable ties. Zip ties, wire ties, and other rigid, semi-permanent restraints will not be allowed.
 - 1. Excess cables/cords shall not be visible after the installation is complete.
 - a. Example: Cables/cords behind wall monitors shall be neatly bundled behind the monitor and fastened to the monitor wall mount so as not to be visible from the front of the monitor.
- B. Equipment mounts shall be properly sized for the equipment being supported. Fasteners shall be of sufficient strength to support the finished installation including required equipment.
 - 1. Fasteners shall be firmly attached to blocking where provided.
 - 2. Fasteners in solid materials such as concrete, brick, etc shall use appropriate sleeves and anchors for the material, weight being supported, and fastener being used.
 - 3. All drop ceiling mount locations shall have tile bridge supports.
- C. Final testing of A/V components shall be performed only after all A/V equipment and components within Division 27 have been completely installed to ensure all components have been properly integrated with each other as needed.

3.2. EQUIPMENT INSTALLATION, TESTING, AND ACCEPTANCE

- A. Any required system programming (by CoM-IT or Contractor) shall be completed prior to doing any installation testing and acceptance.
- B. It is the sole responsibility of the Contractor to notify CoM-IT no less than two (2) weeks in advance of completing the installation to coordinate all final testing of the completed system.
- C. Wall Mounts:
 - Wall mounts shall be securely fastened to the wall and blocking per the manufacturer's supplied
 instructions and mounting hardware. Wall mounts shall be located horizontally and vertically on the
 designated wall as indicated in plans and details for each room receiving monitors.
 - 2. Monitors shall be securely installed on the wall mount.
 - 3. The mounting bracket shall be tested with the completed monitor and cable/cords properly installed. The completed installation and successful testing of the mounting bracket installation shall provide the following:
 - All cords/cables are properly plugged in, excessive cable is bundled but not stretched tight, cords/cables are not pinched or impede the mounting brackets range of motion.
 - b. Full range of motion in all directions as per the specifications above.
- D. Monitor testing shall be part of the overall Division 27 installation of all A/V equipment and requirements. This shall include but not be limited to the following:
 - 1. Remote control is fully functional at each monitor location
 - a. A single remote is used and properly programmed to control monitors, IPTV cable boxes and other devices as needed.
 - i. Controls on/off/volume and other related functions as a TV with an IP Cable Box.
 - ii. Controls various input modes as a monitor as described in other Division 27 specifications.
 - ii. Works with other video/audio feeds as described in other Division 27 specifications.
 - 2. Monitor (each location) functions in all modes and inputs as designated in the contract documents.
 - a. Test with Polycom system
 - b. Test with portable devices (laptop, etc)
- E. The IP Cable Box shall be tested at each location installed. Testing shall include verifying all intended functions perform as expected including the DVR options on models with DVR capabilities. Troubleshoot and re-test as necessary. Contact Owners Representative if a bad unit is suspected for immediate replacement.

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

11

- F. The portable Press Box shall be functionally tested per manufacturer's recommendations at each designated connection location.
- G. A completed and accepted installation shall pass all of the above tests for each location where equipment will be installed.
- H. The warranty period for the completed and accepted installation shall not begin until the date of the accepted general contract. The Contractor shall coordinate this date with the General Contractor.

END OF SECTION

1

THIS PAGE INTENTIOANLLY BLANK

SECTION 10 51 00 - LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Metal lockers.

B. Locker room benches.¹

1.2 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Wood blocking and nailers.

1.3 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2011.

1.4 SUBMITTALS

- A. Product Data: Manufacturer's published data on locker construction, sizes and accessories.
- B. Shop Drawings: Indicate locker plan layout, numbering plan.

1.5 QUALITY ASSURANCE

- A. Regulatory Requirements: A minimum of 5% of the Wardrobe Lockers in each room shall comply with accessibility requirements comply with 2010 edition of "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."
 - 1. Provide not less than one shelf located no higher than 48 inches above floor for forward reach and 54 inches above floor for side reach.
 - 2. Provide one shelf located at bottom of locker no lower than 15 inches above floor for forward reach.
 - 3. Provide hardware that does not require tight grasping, pinching or twisting of the wrist and that operates with a force of not more than 5 lbf. Only recessed handles shall comply.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect locker finish and adjacent surfaces from damage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Lockers: see sehedule at the end of this section.
 - 1. Art Metal Products: www.artmetalproducts.com.
 - 2. Lyon Workspace Products: www.lyonworkspace.com.
 - 3. Penco Products, Inc. www.pencoproducts.com.
 - 4. Republic Storage Systems Co: www.republicstorage.com.

- 5. DeBourgh: www.debourgh.com
- 6. Substitutions: See Section 01 60 00 Product Requirements.

B. Locker room benches: \(\frac{1}{2} \)

- 1. Global Industries: www.globalindustries.com.
- 2. Penco Products, Inc.: www.pencoproducts.com

2.2 LOCKER APPLICATIONS

- A. Wardrobe Lockers: Multiple tier configuration (as indicated on Drawings) metal lockers, free-standing with matching closed base.
 - 1. Location: Locker room in Administration offices.
 - 2. Width: 12 inches.
 - 3. Depth: 18 inches.
 - 4. Height: 72 inches.
 - 5. Fittings: Hat shelf, 2 coat hooks.
 - 6. Locking: Padlock hasps, for padlocks provided by Owner.
 - 7. Provide sloped top.
- B. Heavy Duty Storage Lockers: Single tier configuration (as indicated on Drawings) metal lockers, free-standing with matching closed base.
 - 1. Location: Work Room in Station #1.
 - 2. Width: 24 inches.
 - 3. Depth: 24 inches.
 - 4. Height: 72 inches.
 - 5. Locking: Padlock hasps, for padlocks provided by Owner.

2.3 METAL LOCKERS

- A. Lockers: Factory assembled, made of formed sheet steel, ASTM A653/A653M SS Grade 33/230, with G60/Z180 coating, stretcher leveled; metal edges finished smooth without burrs; baked enamel finished inside and out.
 - 1. Where ends or sides are exposed, provide flush panel closures.
 - 2. Provide filler strips where indicated, securely attached to lockers.
 - 3. Color: To be selected by Architect from manufacturer's standard range.
- B. Locker Body (Wardrobe): Formed and flanged; with steel stiffener ribs; electric spot welded.
 - 1. Body and Shelves: 24 gage, 0.024 inch.
 - 2. Base: 20 gage, 0.036 inch.
 - 3. Metal Base Height: 4 inch.
- C. Locker Body (Storage): Formed and flanged; with steel stiffener ribs; electric spot welded.
 - 1. Body and Shelves: 0.060 inch.
 - 2. Base: 0.060 inch.
 - 3. Metal Base Height: 4 inch.
- D. Frames: Formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
 - 1. Door Frame: 16 gage, 0.060 inch, minimum.

LOCKERS 10 51 00 - 2

- E. Doors: Hollow double pan, sandwich construction, 1-3/16 inch thick; welded construction, channel reinforced top and bottom with intermediate stiffener ribs, grind and finish edges smooth.
 - 1. Door Outer Face: 18 gage, 0.048 inch, minimum.
 - 2. Door Inner Face: 20 gage, 0.036 inch, minimum.
 - 3. Form recess for operating handle and locking device.
 - 4. Provide louvers in door face, top and bottom, for ventilation.
- F. Hinges: Two for doors under 42 inches high; three for doors over 42 inches high; weld securely to locker body and door.
 - 1. Hinge Thickness: 14 gage, 0.075 inch.
- G. Sloped Top: 20 gage, 0.036 inch, with closed ends.
- H. Coat Hooks: Stainless steel or zinc-plated steel.
- I. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch high.

2.4 LOCKER ROOM BENCHES 1

- A. Locker Room Changing Benches: Stationary type; bench top of laminated maple; painted steel pedestals.
 - 1. Height: 18"

 - 3. | Depth: 20"
- B. Pedestals shall permit the bench to be free-standing without anchoring to floor and shall allow the bench to be located tight to wall.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that prepared bases are in correct position and configuration.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install lockers plumb and square.
- C. Place and secure on prepared base.
- D. Bolt adjoining locker units together to provide rigid installation.
- E. Install end panels, filler panels, and sloped tops.
- F. Install accessories.
- G. Anchor bench pedestals to floor using concealed fasteners as recommended by manufacturer.
- H. Replace components that do not operate smoothly.

LOCKERS 10 51 00 - 3

3.3 CLEANING

A. Clean locker interiors and exterior surfaces.

1 - Addendum #1

END OF SECTION

LOCKERS 10 51 00 - 4

		SECTION 01 25 13 PRODUCT SUBSTITUTION PROCEDURES
DADT	1 _ @	ENERAL'
	1 – G 1.1.	SUMMARY
	1.1. 1.2.	RELATED SPECIFICATIONS
		RODUCTS
	2 – F. 2.1.	SUBSTITUTION REQUEST FORM
		(ECUTION
		REQUESTING A SUBSTITUTION DURING BIDDING
	3.1. 3.2.	REQUESTING A SUBSTITUTION AFTER AWARD OF CONTRACT
	3.2. 3.3.	UNAUTHORIZED SUBSTITUTIONS
	3.3.	UNAUT HONIZED SOBSTITUTIONS
DADT	1_6	ENERAL
FAIL	<u> </u>	LITERAL
1.1.	SHI	MMARY
1.1.	Α.	The City of Madison uses a specific list of preferred products for various specification items to establish standards of quality, utility, and appearance required.
	В.	The City of Madison will not allow substitutions for specified Products except as follows:
	٠.	1. The Product is no longer produced or the product manufacturer is no longer in business.
		 The manufacturer has significantly changed performance data, product dimensions, or other such design
		criteria for the specified Product(s).
		3. Products specified by naming one or more Products or manufacturer's and "or approved equal" or
		"approved equivalent."
	C.	The City of Madison will not allow substitutions for specified Products as follows:
	-	1. For Products specified by naming only one Product and manufacturer, no substitute product will be
		considered.
		2. For Products specified by naming several Products or manufacturers select any one of the products or
		manufacturers named, which complies with the specifications. No substitute product will be considered
	D.	Request for substitutions from any party other than the General Contractor (GC) will not be accepted.
1.2.	REL	ATED SPECIFICATIONS
	Α.	Section 01 26 13 Request for Information (RFI)
	В.	Section 01 31 23 Project Management Web Site
	C.	Section 01 33 23 Submittals
PART	2 – P	RODUCTS
2.1.	SUI	SSTITUTION REQUEST FORM
	A.	During bidding all contractors (General and Sub-contractors) and suppliers of materials or products shall provide
		hard copy of the Substitution Request form and all required attachments directly to the Project Architect.
		Submission shall use the form located at the end of this specification.
		1. Contractors and suppliers shall use the screen shot of the form located at the end of this specification to
		print a hard copy for all pre-bid substitution requests.
	В.	After bidding only the GC shall submit a request and shall use the form located on the Project Management We
•		Site.
PART	3 - E	KECUTION CONTRACTOR OF THE PROPERTY OF THE PRO
3.1.	REC	QUESTING A SUBSTITUTION DURING BIDDING
	A.	In the event that a substitution is requested during the bidding phase the Contractor or Supplier shall meet the
		substitution request deadline listed in the bidding documents. No substitution request will be considered durin
		the bidding period after the stated substitution request deadline. In general this procedure shall be as follows:
		1. Submit the Substitution Request Form including all required supporting documentation to the City
		Project Manager and Project Architect by the substitution request deadline specified in Section A of the
		Contract Documents. Utilize the Substitution Request Form found at the end of this Section.
		Submit a Substitution Request Form for each product, supported with complete data, drawings and
		samples as appropriate, including:
		are a true to a supermitted that A is the A that is a supermitted to A is a supermitted A in A i

1			i.	Comparison of qualities	s of the proposed su	ıbstitutions with that sp	pecified.
2			ii.	Changes required in ot	her elements of the	Work because of the sa	ubstitution.
3			iii.	Effect on the construct	ion schedule.		
4			iv.	Cost data comparing th	ie proposed substitu	ition with the Product s	pecified.
5		•	٧.	Any required license fe	es or royalties.		-
6			vi.	Availability of maintena	ance service and sou	irce of replacement ma	terials.
7		•	3. The Owner a	and Architect will review t	he Substitution Req	uest Form and if appro	ved the City of Madison
8			will publish	a bidding addendum auth	orizing the replacen	nent. The Owner and A	rchitect may reject any
9				request without providing			
10		В.	Substitutions submi	tted and approved during	the bidding phase s	hall be announced by t	he City of Madison by
11	•		addenda prior to the				
12 [:]							•
13	3.2.	REQUE	STING A SUBSTITUT	ION AFTER AWARD OF CO	ONTRACT		
14		Α.	A substitution reque	est will only be considered	l after award of conf	tract if it meets the qua	lifying provisions as
15			described in 1.1.B.1		<u> </u>		
16		В.		a substitution request usi		on the Project Manager	nent Web Site located ir
17 [^]				ministration-Substitution			
18			1. Click on Add	document to open a new	digital form, fill out	form, provide all requi	red attachments, then
19			click the Sub	100 mars of 100 ma			A SAME A SAME AS A SAME A SAME AS A SAME A SAME AS A SAME A SA
20			Consulting S	taff, Owner and Owners R	lepresentatives will	review the request and	provide the appropriate
21			approvals an	d feed back to the GC.			*
22							•
23	3.3.	UNAUT	THORIZED SUBSTITU	TIONS			
24				substitutes products with			
25			required to immedia	ately remove and replace	the product and all o	costs required to confo	rm to the Contract
26			Documents shall be	borne by the General Prir	ne Contractor.		
27							
28							
29							
30				END	OF SECTION		
31					* · · · · · · · · · · · · · · · · · · ·		



Substitution Request

	•					
Today's Date:	1/27/2015	•				
Project Title:						
•						
Project Number:		Contract N	umber:			
					·	
	. Descript	on .		Spec Secti	on Peg	e Peregraph
And the second of the second o						
					and the second control of the second control	
he undersigned request	s consideration of the follow	ine:				•
reposed Substitution:						
i diasea sunsumani.	·					**************************************
	,					
·						
Anscioneris						
9 Click here to attach a	file					
Insert item						
app@cable partion	iudes product description, sp s of the data are cleady iden o includes a description of ch	tified.				
he undersigned General	Contractor representative	certifies that the	following paragraph	s are correct.		•
	earance, and quality of the p	-		erior to the specifie	d item.	
	stitution does not affect dim will pay for changes to the b		-	lacian damilian an	f construction care	r zemené ku těn esamoté
	wiii pay jur Changes to be is stitution will have no advers					
	service parts will be locally		•		• •	•
ubmitted By:						
g projection of the page of th	d entering the date I hereby	give my electro Title:	mic signature**			
lame:		106/2-		LAS	ite:	E
âro:		Ac	Miress:			
hone:						

1

THIS PAGE INTENTIOANLLY BLANK

SECTION 10 14 00 - SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. This Section includes the following:
 - 1. Interior room identification signage.
 - 2. Interior Madison Fire Department lobby identification sign.
 - 3. Exterior Fire Station identification sign.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication and installation details for signs.
 - 1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - 2. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.
- C. Samples: For each sign type and for each color and texture required.

PART 2 - PRODUCTS

2.1 INTERIOR SIGNS

- A. Manufacturers: Interior signage is based on Inpro Boston Collection. \(\frac{1}{2} \)

 1 Sizes, colors and graphics shall be provided as indicated on Drawings.
- B. Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. SignElements, Greenville, WI
 - 2. Grant Signs, McFarland, WI
 - 3. Poblocki Sign Systems, West Allis, WI
 - 4. Ryan Signs, Madison, WI
 - 5. Creative Sign Co., De Pere, WI
- C. Product: Two color acrylic with continuous accent bar. \(\)
 - 1. Material: Face Panel: Photopolymer
 - 2. Lettering: Raised lettering and Braille
 - 3. Corners: Square
 - 4. Window Back Plate: Black

- Mounting: Adhesive mounting strips
- 6. Text and Location: Provided by the City of Madison during the sign submittal phase.
- D. Product: Backlit multi-color acrylic Fire Department identification sign (at main lobby, ground floor). 1
 - 1. Provide sign and mounting standoffs for lobby sign as detailed on the drawings.
 - 2. Light fixture for sign is scheduled in the electrical drawings.

2.2 EXTERIOR SIGNS

- A. 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. SignElements, Greenville, WI
 - 2. Grant Signs, McFarland, WI
 - 3. Poblocki Sign Systems, West Allis, WI
 - 4. Ryan Signs, Madison, WI
 - 5 Creative Sign Co., De Pere, WI
- B. Product: Backlit curved aluminum Fire Station identification sign.
 - 1. Provide sign and mounting standoffs for building sign as detailed on the drawings.
 - 2. Light fixture for sign shall be provided by this Section.

PART 3 - EXECUTION

3.1 INSTALLATION – INTERIOR SIGNS

- A. Window mount for most applications.
- B. Position room signs on strike side of door. Mounting height for interior signage shall be 60 inches above finished floor to the centerline of the sign.
- C. Clean and polish.

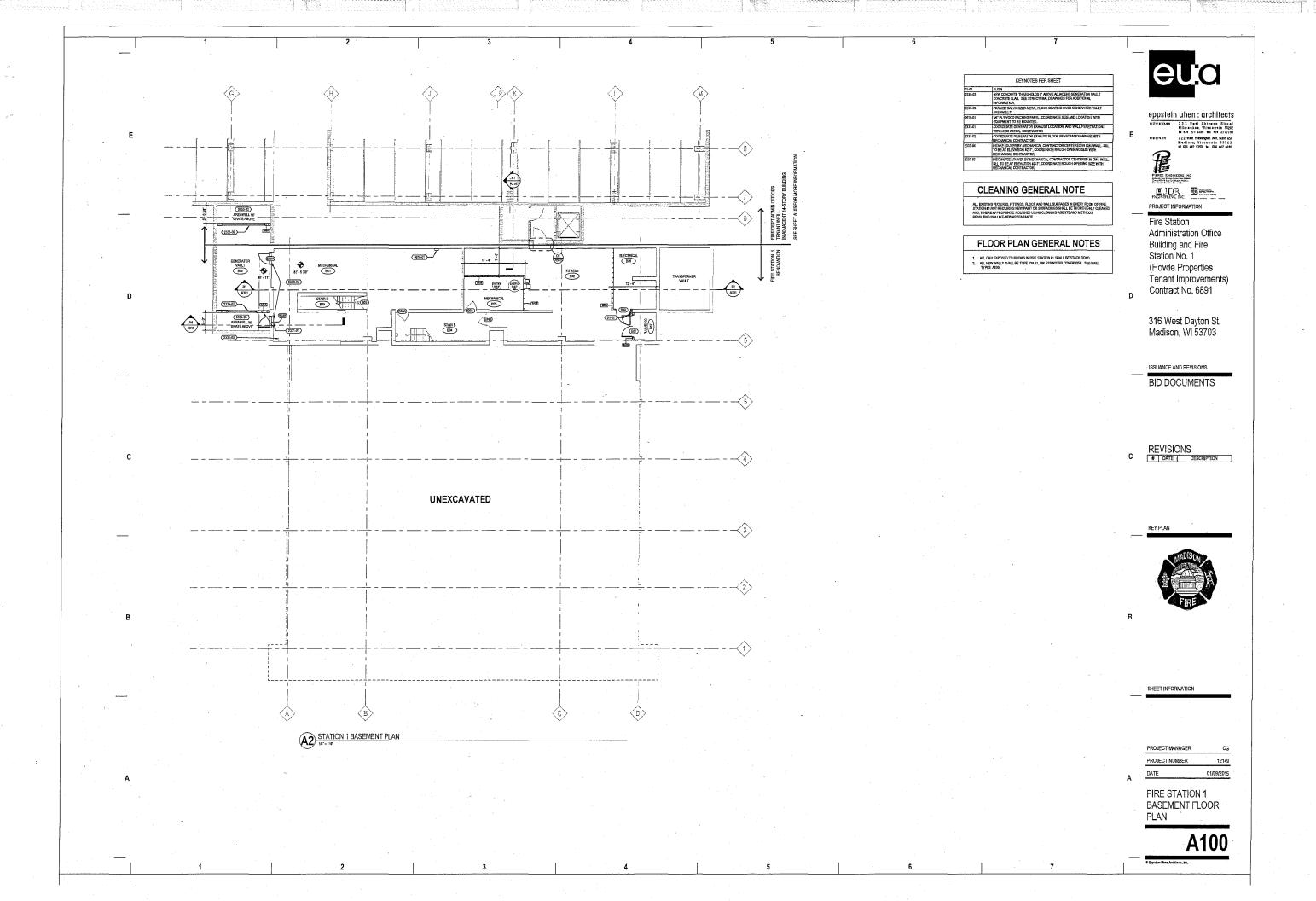
3.2 INSTALLATION – EXTERIOR SIGNS

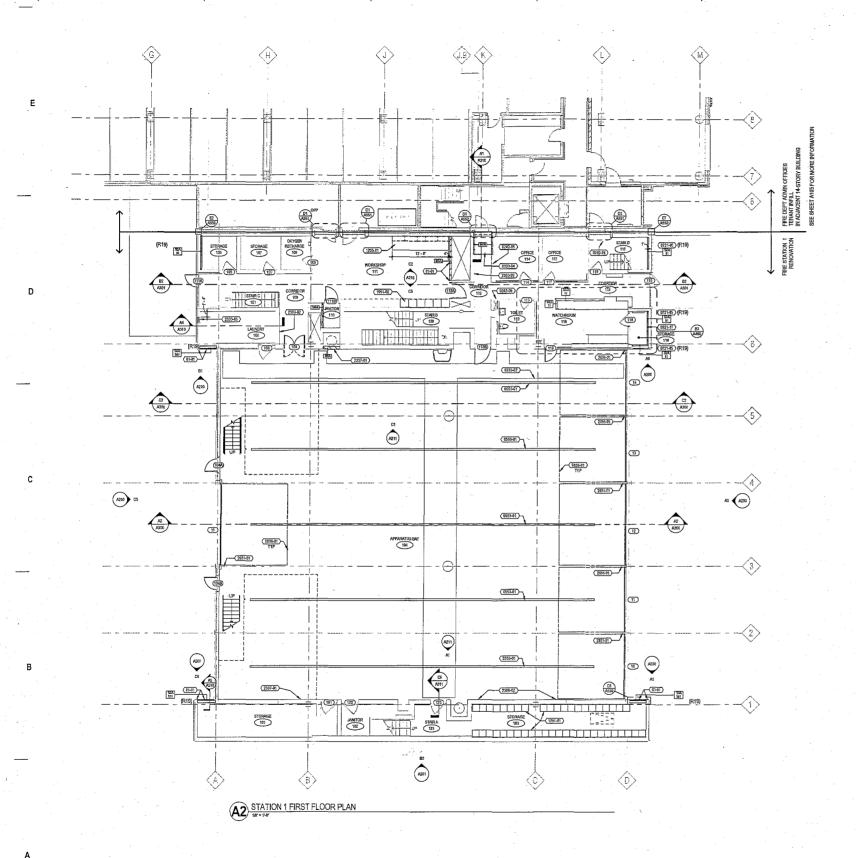
- A. Coordinate with electrical contractor for required power supply and lighting controls.
- B. See exterior building elevation for specific location of sign
- C. Clean and polish.

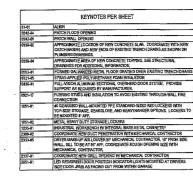
END OF SECTION

1 - Addendum #1

SIGNAGE 10 14 00 - 2







CLEANING GENERAL NOTE

FLOOR PLAN GENERAL NOTES

ALL CHU EXPOSED TO ROOMS IN FIRE STATION OF SHALL BE STACK BOND, ALL NEW WALLS SHALL BE TYPE STA 11, UNLESS NOTED OTHERWISE. SEE WALL TYPES AGO.



eppstein uhen ; architects

333 Ewst Chicago Street
Milwaukee, Wisconsin 5202
W 414 271 5350 fix 414 2717794



FINGINERING, INC.

PROJECT INFORMATION .

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

C REVISIONS
DATE DESCRIPTION

KEY PLAN

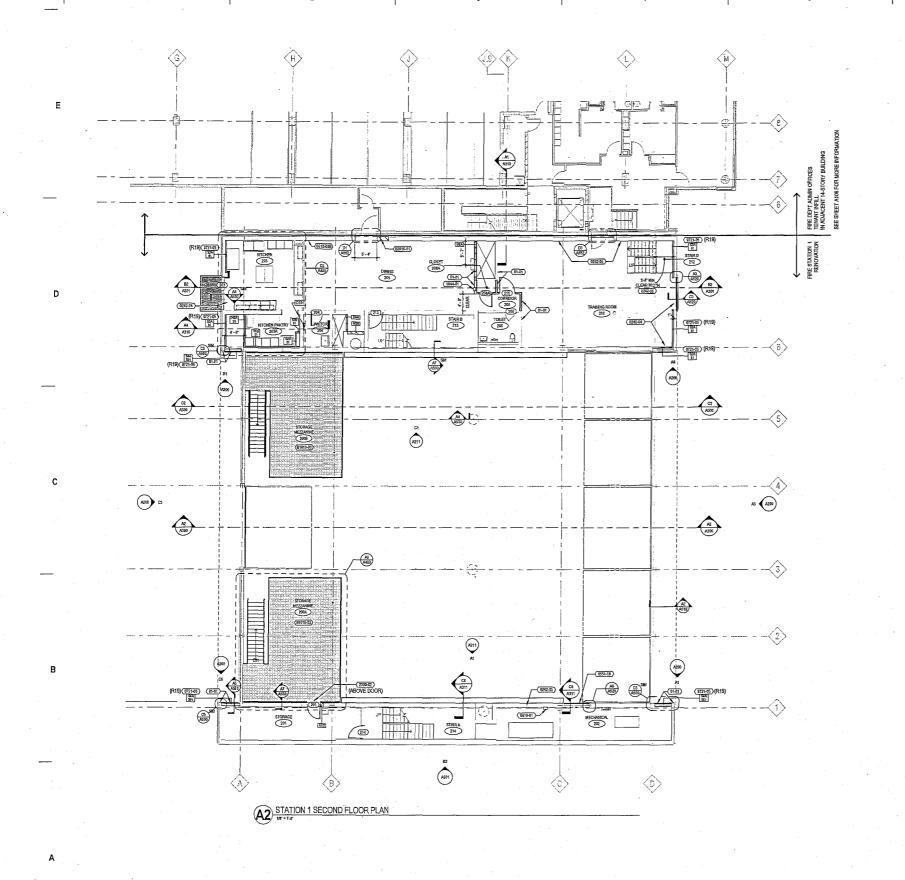


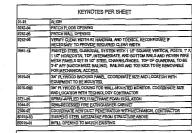
SHEET INFORMATION

PROJECT MANAGER 12149 DATE 01/09/2015

> FIRE STATION 1 FIRST FLOOR PLAN

> > A101





CLEANING GENERAL NOTE

FLOOR PLAN GENERAL NOTES

	ACCESSORY SCHEDULE	
TAG	DESCRIPTION	1
C901	IMOP AND BROOM HOLDER, 3-HOOK 24"	
M510	ROBE HOOK	
SH01	SHOWER CURTAIN ROD AND HOOKS	
TWE	24" TOWEL BAR	





DJDR BESSEL

PROJECT INFORMATION

Fire Station Administration Office
Building and Fire
Station No. 1

(Hovde Properties Tenant Improvements)
Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
DATE DESCRIPTION



SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 01/09/2015

> FIRE STATION 1 SECOND FLOOR PLAN

> > A102



CLEANING GENERAL NOTE

ALL EXISTING FIXTURES, FITTINGS, FLOOR, AND WALL SURFACES IN EVERT ROOM OF FIRE STATION AT NOT RECURRING ERRY PART OR SURFACINGS SHALL BE THOROUGH, Y CLEANED AND, WHISTER-REPORPHATE, PULLIBLED USING CLEANING AGENTS AND METHODS PRESIX THING IN A LIKE-HEW APPEARANCE.

eppstein uhen : architects

miliraukes 33 5 East Chicage Street
Miliraukes, Wisconsin 5302
medison 42 27 1590 and 42 271799
medison 42 22 West Wastington Arc, Sub 150
Medison, Wisconsin 53703
in 188 442 5950 bx. 806 442 5860



DJDR FINGINGERING, INC.

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
| DATE | DESCRIPTION |

KEY PLAN

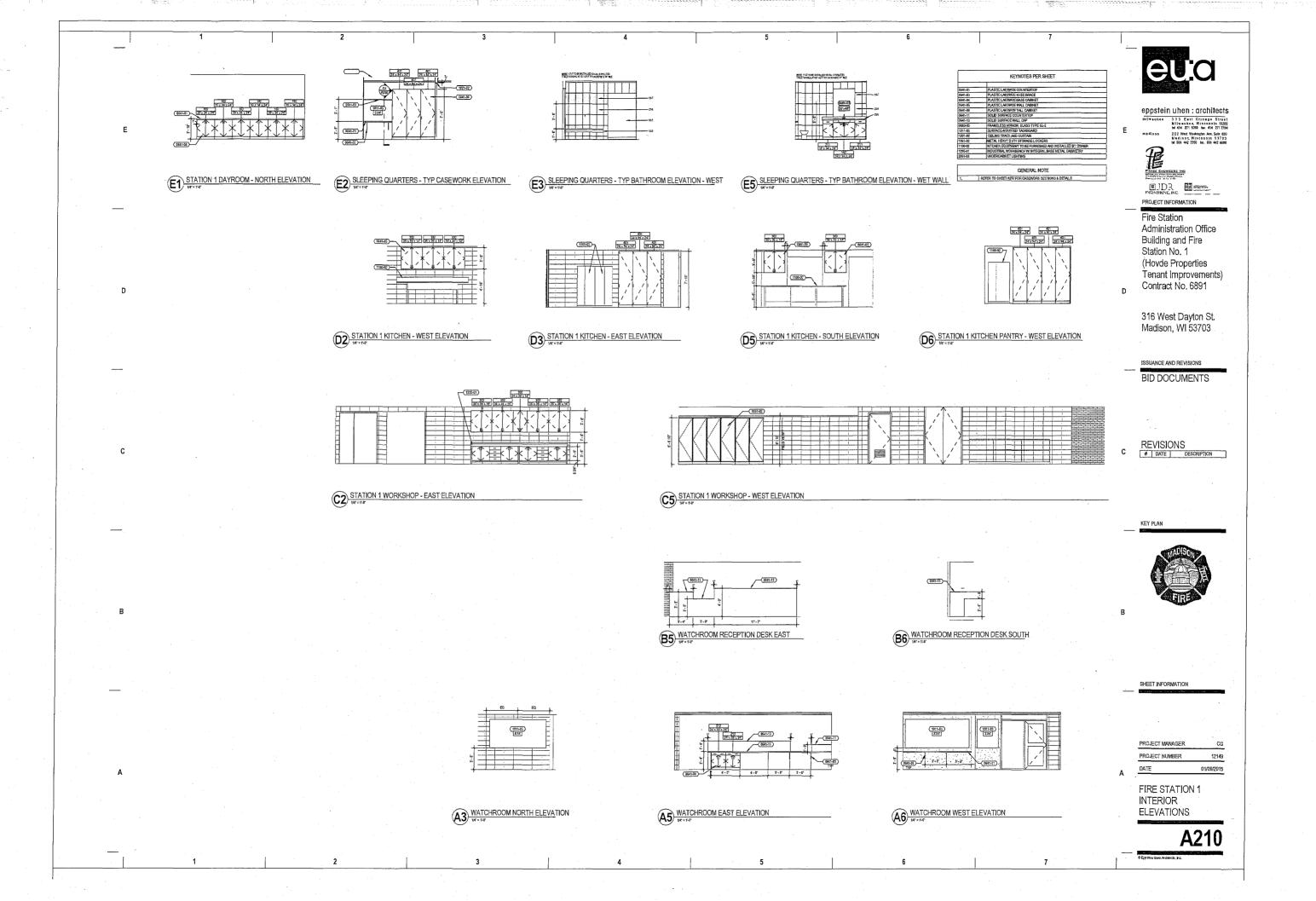


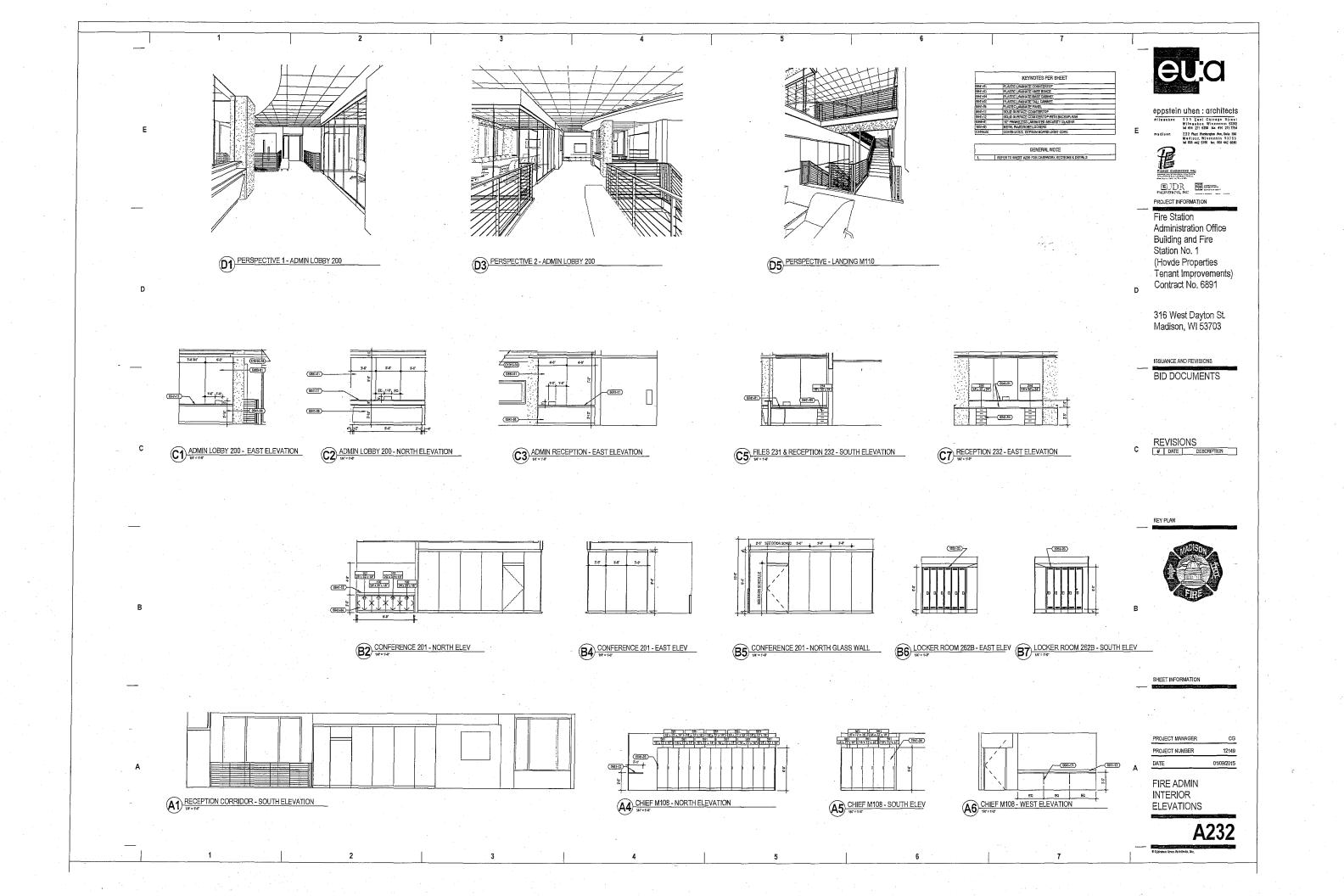
SHEET INFORMATION

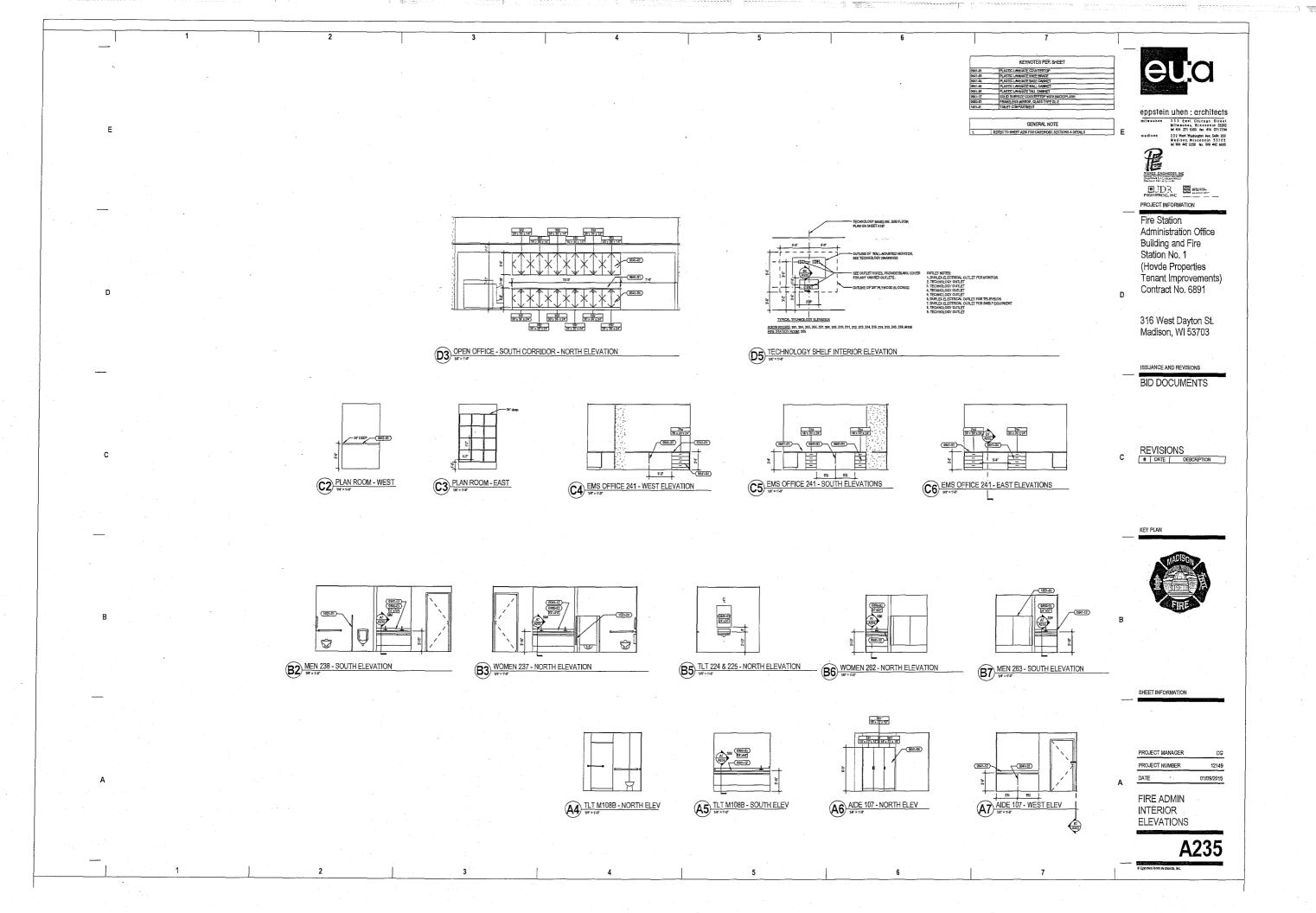
PROJECT MANAGER 12149 PROJECT NUMBER DATE 01/09/2015

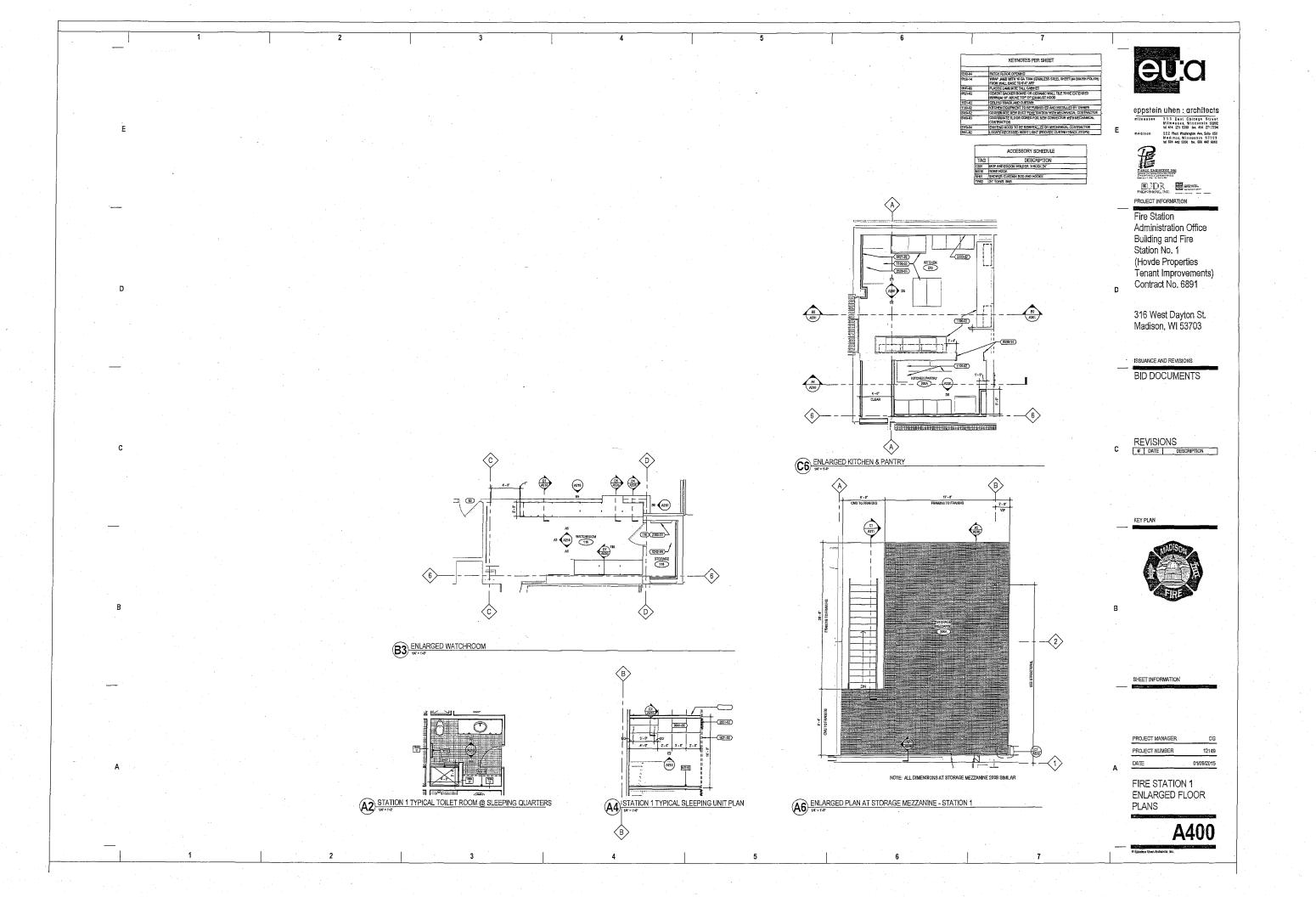
FIRE STATION 1 FIRST FLOOR FINISH PLAN

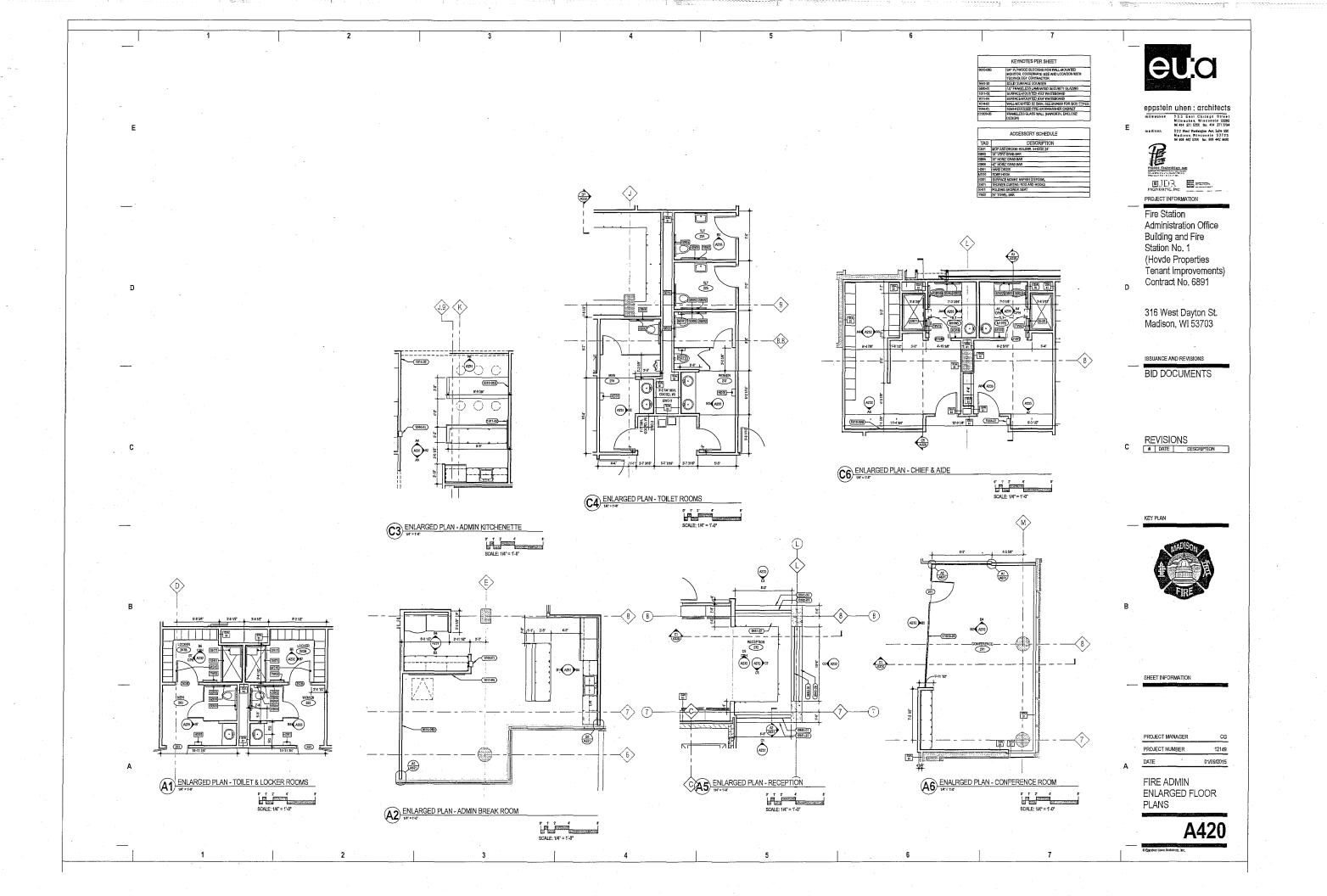
A121

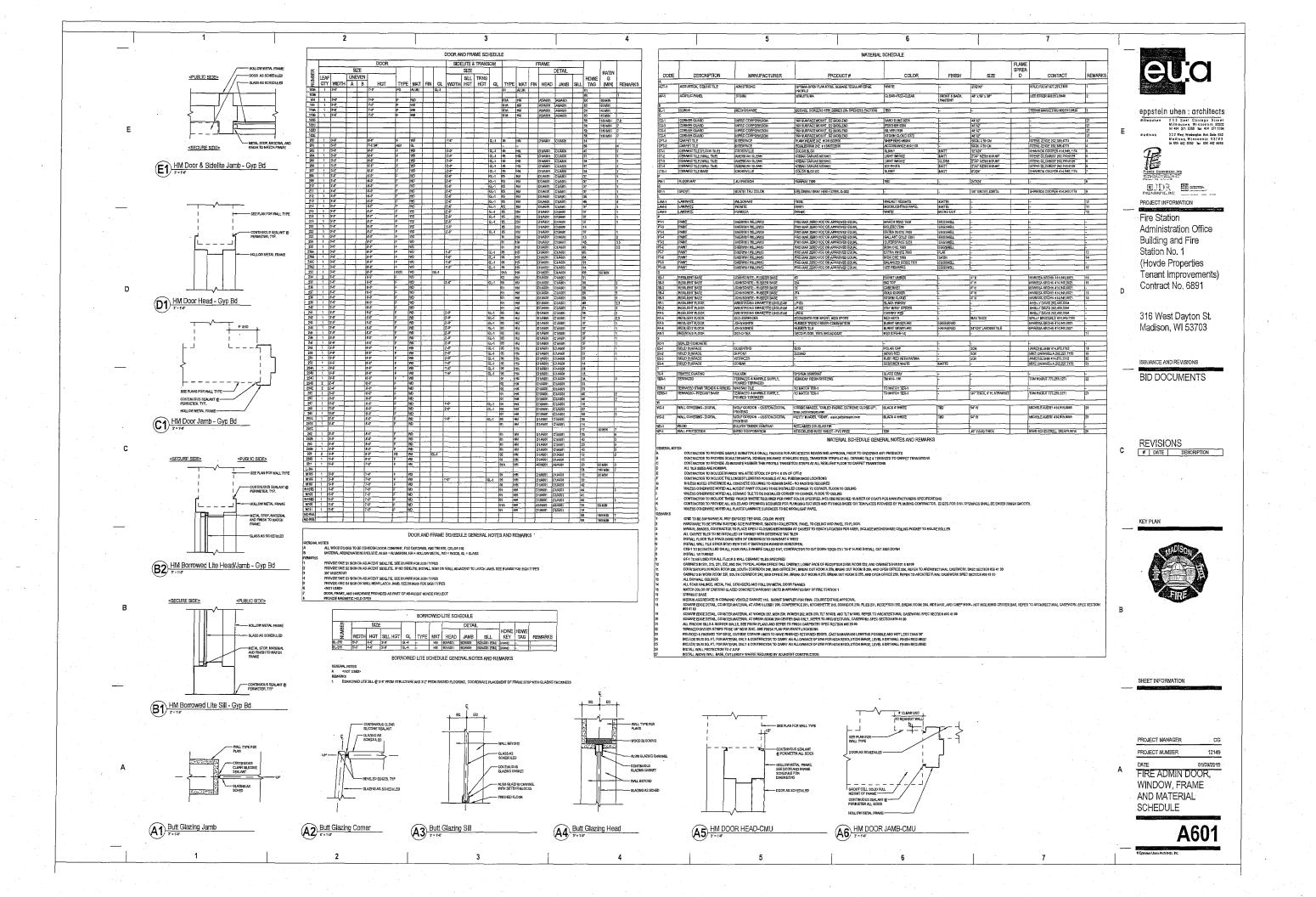












	PLUMBING FIXTURE SCHEDULE REFER TO SPECIFICATION SECTION 22 40 09 FOR ACCEPTABLE EQUAL MANUFACTURERS									
1D	FIXTURE .	pru	WAS	VEN	-	COLD SIZE		HOT SIZE	DETAIL/ SHEET	DESCRIPTION/REMARKS
<u>DW-1</u>	DISHWASHER (BY OTHERS)	4	1-1/2	1-1/2		=	2	1/2	<u> </u>	FIXTURE: BY OTHERS, CONNECT 1/2/HY TO UNIT WITH BALL VALVE AND WATER HAMMER ARRESTOR BEHIND UNIT, ROUTE DRAIN TO GREASE WASTE HUB DRAIN.
DW-2	DISHWASHER (BY OTHERS)	2	1-1/2	1-1/2	-	-	1	1/2*		PATURE: BY OTHERS, CONNECT LIZHWY TO JUNT WITH BALL VALVE & WATER HAMMER ARRESTOR BEHIND UNIT, ROUTE GRAIN LINE TO SINK WASTE WITH AIR GAP STITUNG, CODIFICANT WITH THE OFFICE AND LINE OF LIGHT WITH AIR GAP FIXTURE. BLACKY EZSTLEWSILK WALL HUNG, HALD ELECTRIC WATER COOLER WITH BOTTLE FILLER, STANLESS STEEL BASH, SELF CLOSING PUSH BUTTON VALVE CONTROLS. SELF-CONTRANCE OF LINE WORD FRATURE, ADM COMPANIES, COORDINATE ELECTRICAL CONNECTION WITH EC.
EWC-1	ELECTRIC WATER GOOLER	0.5	1-1/4	1-1/2	0.25	1/2"	_	-	_	TRAP. CHROME PLATED CAST BRASS P-TRAP. FIXTURE SUPPORTI, SEE MANUFACTURERS WRITTEN INSTRUCTIONS FOR SUPPORT BACKING. STOPS & SUPPLIES, MAGUIRE M216TLK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES FIXTURE: DASIS MEOR RECESSED WALL MOUNTED. HALD ELECTRIC WATER COOLER. STANLESS STEEL FINISH, SELF CLOSING PUSH BUTTON VALVE CONTROLS.
EWC-2	ELECTRIC WATER COOLER	0.5	1-1/4	1-1/2	0,25	1/2"	-	-	-	INTEGRAL FILTER SELF-CONTAINED CHILLER UNDER FIXTURE, AGA COMPLIANT, COORDINATE ELECTRICAL CONNECTION WITH EC. TRAP: CHROME PLATED CAST BRASS P-TRAP. FIXTURE SUPPORT: SEL MANUFACTURERS WRITTEN INSTRUCTIONS FOR SUPPORT BACKING.
EWC-3	ELECTRIC WATER COOLER	0,5	1-1/4"	1-1/2*	0,25	1/2	-	_	-	STORS & SUPPLES: Mediume HZ19TUL, LOOSE KEY GUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHOUSE AS CARGINE PLATED COOPER RISER SUPPLIES TRYUNE: ORSE MASSER PECESSES WALL MOUNTER, LECTION WHERE ON COLLER WITH BOTTLE PLIES, TRIENES, BEY, CLOSING PURSH BUTTON VALVE CONTROLS, INTERNAL PLETE, SELF-GONTAINED CHILLER UNDER FIXTURE, ADA COMPLIANT, COORDINATE ELECTRICAL CONNECTION WITH SC. TRAP: CHROME PLATED CAST BRASS P-TRAP. FIXTURE SUPPORT: SEE MANUFACTURERS WRITTEN INSTRUCTIONS FOR SUPPORT BACKING.
			-			\vdash				STOPS & SUPPLIES: MIGUINE PLYBIAL, LODGE MEY QUARTER TUPN ANGLE STOPS WITH CHROME PLATED ESQUTHIGHOUS A GROWNE PLATED COPPER RISER SUPPLIES. INCLUDING THE PROPOLICES GAS ADEAS HOW DOWN DO SEMILES CONTRIBUTION, 2" MEASTIGNING. THE PROPOLICES GAS GALLOUS LUDGE OPERATION." 142 LISS GREASE CAPACITY, 35 GPM MAX FLOW, INSTALL 2" WASTE FROM CENTER BASIN OF SINK IN KITCHEN OF FIRE STATION F1, AND DISHWASHER WASTE HUB DRAIN AS SHOWN ON DRAWNINGS.
31-1 1B-1	GREASE INTERCEPTOR HOSE BIBB		_	ļ_	3	1/2*				CALCULATIONS: SIN. BOWN, DIMENSIONS: 24" x 24" x 12" DEEP = 4 CUFT = 30 GALLONS x 0,75 = 72.5 GALLONS DISHMASHER: ROCKS PER HOUR = 52 x GALLONS PER RACK = 0,74 x 0.5 = 11,24 GALLONS TOTAL = 2.4 = 1,24 = 3,45 GALLONS OF LOUDIN HOLDING CAPACITY AND 06,06 LIS OF GREASE HOLDING CAPACITY FIXTURE: WOODOFOR MODEL 2 and ATSISHHON HOSE GRIBE PROFESS COLVATIEN, INTEGRAL VACUUM BREAVER 34" HOSE CONNECTION.
IR-1	HOSE REEL AND HOSE	+=	+=	+=	4	3/4"	T =		- -	FIXTURE: REEL CRAFT RT650-OLP WALL MOUNTED RETRACTABLE HOSE REEL, STEEL CONSTRUCTION, GUIDE ARM, 50' HOSE INCLUDED, 3/8" ID, MEDIUM DUTY, 300 PSIG
<u></u> _	ICE MAKER WALL BOX	+-	-	 _	0,5	1/2*	-	-		MAX PRESSURE, 12" INLET. COORDINATE LOCATION AND MOUNTING WITH GC. FIXTURE: GUY GRAY MYSTORIA WATERTIGHT RECESSED ICE MACHINE BOX, 2D GAUGE STEEL, WHITE, COLD WATER SUPPLY WITH 1M TURN VALVE, SWEAT CONNECTIONS, PRE-INSTALLED WATER HAMMER, ARRESTOR.
-1	LAVATORY (ADA COMPLIANT	r) 1	1-1/4*	1-1/2"	q.s	1/2"	0.5	1/2*	4/P800	FIXTURE: KOHLER CAXTON K-Z211 OVAL LAVATORY BOWL, WHITE VITREOUS CHINA, UNDER-MOUNT, WITH OVERFLOW, 19"A 15", ADA COMPLIANT, FAUCET: CHICAGO FAUCETS 22014E37CP MANIAL FAUCET. 1.5 GPM AERATOR, FOP-UP DRAIN, SINGLE LEVER, SOLID BRASS CONSTRUCTION, CHROME PINISH, CERAMIC CARTINGLE, MOUNTED ON "CENTERS, ADA COMPLIANT. TRAP: CHROME PILATED CAST BRASS PITRAP.
<u>-2</u>	LAVATORY (ADA COMPLIANT	7 1	1-1/4"	1-1/2*	0,5	1/2"	0,5	1/2"	4/P800	STORS & SUPPLIES: MEGUNE RATRICK, LOOSE KEY GUARTER TURN ANGLE STOPS WITH CHROVE PLATED ESCUTCHEOMS & CHROME PLATED COPPER RISER SUPPLIES FATURE: KOHLER CANTON N. 2271 OVAL LAVATORY BOWL. WHITE VITREOUS CHINA, UNDER-MOUNT, WITH OVERFLOW, 19° A. 15°, ADA COMPLIANT, FALICET: CHICAGO FAULGETS 118.798.85.1 ELECTRONIC FAULET, 0.5 GPM AERATOR, TWO MOUNTING BOLTS ON A"CENTERS, CHROME FRINSH, SENSOR OPERATED, ELECTRONIC POWERED, PLUCHAT TRANSFORMER 246,050.03.1 FOR SINGLE FAULET1, 120VAC INPUT/12/VAC GUTPUT, INCLUDE BELOW DECK MOXING VALVE 242,165.00.1, AND CHECK VALVES ON SUPPLIES ON DIRENOS VALVE.
			-		-		<u> </u>			TRAP & DRAIN. CHROME RATED CAST BRASS PIRAP, WITH GRID STRAINER DRAIN. STORS & SUPPLIES: MAGURE RIVENTL, LOSDE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES EXTURE: KOWLER CHESAPFAKE K-1728 WALL MOUNTED LAVATORY SINK, WHITE VITREOUS CHINA. THREE FAUCET HOLES ON 2" CENTERS, WITH OVERFLOW, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS 1167/RAB21 ELECTRONIC FAUCET, 35 GPM AFRATOR, TWO MOUNTING BOLTS ON 4" CENTERS, CHROME FINISH, SENSOR OPERATED, ELECTRONIC POWERED, PLUEN HYMARHSFORMER 264280.03 FTOR SINISHE FAUCET, 1200X-04 PRIVITIZENCO UTITY, INCLIDES BELOW DECK MIXING VALVE 186.06.1,
-3	LAVATORY (ADA COMPLIANT	1	1-1/4*	1-1/2	0.5	1/2*	0,5	1/2"	4/P800	ELECTRONIC POWERS DE VILLORIT TRANSPORMER 24,259,00.0.1 PAR SINGLE FAUCET, IXEMAC INFUTIZIZACIA COTTPUT, INCLODE BELOW DECX MIRRING VALVE 262,195,00.1, AND CHECK YALVES ON SUPPLIES TO MIRRING VALVE 262,195,00.1, AND CHECK YALVES ON SUPPLIES TO MIRRING VALVE 262,195,00.1, AND CHECK THE AND CHECK
<u>=</u>	LAUNDRY TRAY	2	1-1/2	1-1/2*	1	1/2*	1	1/2*		FAUCET: CHICAGO FAUCETS 1891 MANUAL FAUCET, 2.2 GPM AERATOR, SOLID BRASS CONSTRUCTION, CHROME FINISH, MOUNTED ON A" CENTERS, TRAP & DRAIN: CHROME PLATED CAST BRASS PYRAP, WITH GRID STRÄNGER DRAIN. STOPS & SUPPLIES: MIGGINER PLATED LA LOSSE KEY QUARTER TURN ANGLE SYOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES FAXTURE: MUSTEE 66M 35/24/74" MIGHI BASIN, ONE PIECE MOLDED DURASTONE, INTEGRAL, MOLDEDAN DRAIN, 3" DRAIN CONNECTION.
1B-1	MOP BASIN	3	3.	1-1/2	2	1/2*	2	1/2"	_	FAULET: CHICAGO FAUCETS SERVICE SINK FALLET 30S-RCF WITH ROUGH CHROME RINSKI, 39° MALE HOSE THRRACED CUTLET, PAL HOOK, ADJUSTABLE SUPPLY ARMS WITH INTEGRAL SERVICE STOPS AND LEVER HANDLES. PROVIDE WATTS MODEL BAC NOW-REMOVABLE CHROME VACUUM BREAKER. TRAP & D'RAIN: INTEGRAL DRAIN AND PV C-FTRAP. ACCESSORIES: HOSE & HOSE HOLDER 65.700, & MOP HANGER 65.800.
±1	SINK (BREAK ROOM SINK)	2	1-1/2"	1-1/2*	1.5	1/2"	1,5	1/2"	-	FEXTURE: ELKY GOURNET ELUHAD 31 MBYB, 15 GAUGE TYPE 30 STAINLESS STEEL SINGLE BOWL, UNDERMOUT, 13.5", 12 K-3475 DEEP, AND COMPLIANT, COORDINATE WITH OCT PES INS COLOTOOTHOR PROSENS AND LOCATION FOR THREE FALICIES FUNDES ON 4"CENTERS IN SOLD SURFACE COUNTER TOP. FAULGET: CHICAGO FALICETS 110-0470248-3-170°, MANULL, FALICET, BRASS CONSTRUCTION, 2.2 GPM AERATOR, POLISHED CHROWE FINISH, 5-14" RISID SYNING GOOSEHECKS ROUT, TWO 4" WISTENDADE FAMILIES, THY ON ICLE MIDITION ON 1" CENTERS", DECK MOUNTED, ACA COMPLIANT. TRAP 1.5 FRANK: CHROME PLATED CAST BRASS F-TRAP, WITH BASKET STRANKER ORAIN. STOPS 8.5 UPPLIES: MESQUIRE FLISTEN, LOSSE (EY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS 8.0 HROME PLATED COPPER RISER SUPPLIES.
<u>2</u>	SINK	2	1-1/2*	1-1/2*	1,5	1/2"	1,5	1/2*	_	FRATURE: ELARY GOURNET ELUNDATION, IN GALDOS TIPE 394 STRANESS STEEL, DOUBLE SOW, LINDEPHOUT, 3.179*, 18.5*, 55.0°, 50.0°
SH-1	SHOWER	2	z	1-1/2	2	1/2*	2	1/2-		TRAP: CHROME PLAYED CAST BRASS P-TRAPS WITH BASKET STRAINER DRAINS. STOR'S & SUPPLIES: INCLUME HZHRILL, LODGE KEY QUARTER TURN ANGLE STOR'S WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES. SHOWER BASK: CARON SER-4835-PAGG QUE PECCE PRECAST TERRACY COMPOSED OF MARBLE CHIPS, 47 x 87 SUE, GROUND SMOOTH AND SEALED, Z' INTEGRAL DRAIN WITH STAINLESS STEEL GRID STRAINER, PROVIDE MANUFACTURERS WATERTIGHT DRAIN GASKET OPTION (+DG2), SHOWER WALLS SHALL BE FIELD BUILT BY GC.
										PIXTURE: SYMMONS 3501-CYL-X-2.D SHOWER SYSTEM, ONIOFF MIXING VALVE, FIXED SHOWER HEAD, 2.D GPM FLOW RATE, ALL CHROME PLATED, DRAIN: INTEGRAL DIVAIN IN SHOWER BASE. SHOWER BASE: ACORN SBADA-833-SA-KOGZ DIE PIECE PRECAST TERRAZZO COMPOSED OF MAYBLE CHPS, 60° X 35° INSIDE DIMENSION, GROUND SMOOTH AND SEALED, Z' NITGGRAL DRAIN WITH STRINLESS STEEL, GRID STRAINER, PROVIDE MANUFACTURERS WATERTIGHT DRAIN GASKET OPTION (KDC2), ROLL IN TYPE, ADA
H-2	SHOWER (ADA COMPLIANT)	2	2°	1-1/2*	2	1/2"	2	1/2"	_	COMPLANT, SHOWER WALLS SHALL BE FIELD BULT BY GC. FIXTURE: SYMDAN 5564-K121-AV-AV-S SHOWER SYSTEM, ONOFF MIXING VALVE, DIVERTER VALVE, FIXED SHOWER HEAD, HAND HELD SHOWER HEAD WITH BO' HOSE & IR-LINE VACUUM BREAKER WALL CONNECTION, 30' SLIDE BAR WITH CRADLE FROM HAND SHOWER, 2.0 GPM FLOW RATE, ALL CHROME PLATED, ADA COMPLIANT. PRATURE: KOHLER BARDON K-8960ET WITEGUS CHINA LIRINAL, WALL MOUNTED, WASHOUT, 34' TOP SPUD, D.S GPF, ADA HEIGHT.
R-1	URINAL (ADA HEIGHT)	2	2	1-1/2*	2	3/4*	_	-	-	Flush valve: Zurn zeozavews urinal flush valve, ojaphragm type, 34° vacuum breaker, exposed manual operation, 34° top spuid, chrome finish, ada compliant. Support: Commercial grade, wall hung urinal support, steel stanchions, iron welded feet, steel sleeves, fasten to floor. Fixture: Kohler High-Grest K-402, white vitreous china, floor mounted, 1-12° top spuid, 22° passageway, 1,5 GPP, ada compliant.
<u>/C-1</u>	WATER CLOSET (ADA HEIGHT)	6	4*	z	6.5	1-1/2*	-	-	_	FILISH VALVE: ZURN Z0030A-WSI-DF WATER CLOSET DUAL FLURH VALVE, DIAPHRAGM TYPE, "T VACUUM BREAKER, EXPOSED MANUAL OPERATION, PUSH UP FOR 1.1 GRF PUSH OCHWI FOR 1,6 GBF, 1-1/2" TOP SPUID, CHROME PLATED, NCLUGE OPERATION SIGNAGE. SEAT: KOHLER KUSTRA K-4876-CA, OPEN FRONT TOILET SEAT, INLECTION MOLDED, WITH ANTI-MICROBIAL AGENT. FIXTURE: KOHLER KINGSTON K-425, WALL HÄNG, FLUSH VALVE TOILET, TOP SPUID, WHITE VITRECUS CHINA, ELONGATED BOWL, 1,6 GPF MAX, 225" TRAPWAY, 15" PIM HEIGHT.
	WATER CLOSET (STANDARD HEIGHT)	5	4"	2	6,5	1-1/2*	-	-	- [TRUSH INLAVE: ZURN Z600AN-WSI-DF WATER CLOSET DUAL FLUSH VALVE, DIAPHRAGM TYPE, 1° VACUUM BREAKER, EXPOSED MANUAL OPERATION, PUSH UP FOR 1.1 GFF FUEN DOWN FOR 1.8 GPF, 1-1/2° TOP SPUD, CHROME PLATED, NCLUSE OPERATION SIGNAGE. SEAT, NCHLER INSTRA K-4570-D, OPER FRONT TOLE SEAT, INJECTION MOLDED, WITH ANY MICHOGRAL AGENT. SUPPORT: COMMERCIAL, GRADE, WALL HUNG WATER CLOSET SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR.
<u>C-3</u>	WATER CLOSET (ADA HEIGHT)	6	4*	z	6.5	1-1/2*	-	-		SAME AS WC-2, MOUNTED AT ADA HEIGHT.
	WASH FOUNTAIN	2	1-1/2	1-1/2"	1.5	1"	1,5	1"	-	FRITURE: BROULTY MYEIGHA-STE-ANSO-GRANICO-TIAN SIGNI-CIRCULAR WASH FOUNTAIN, 94" SEMI-CIRCULAR TERRAZZO BOWL, 3 GPM SPRAY, FOOT RAIL OPERATED. INCLUDE BELOW DECK THERMIOSTATIC MIXING VALVE (TIMA). TRAP 6 DRAIN: CHROME PLATED CAST BRASS P-TRAP, WITH OFFSET P-TRAP, PIPE WRAP GUARD, AND GRID STRAINER DRAIN, STOPS & SUPPLIES: BALL VALVES UNDER UNIT WITH CHROME PLATED ESCUTCHBONS AND COPPER CONNECTIONS TO UNIT.
	WASHING MACHINE WALL, BOX	4	z	1-1/2*	2	3/4*	2	3/4"		FIXTURE: GUY GRAY T200TPCPYCHA WASHING MACHINE RECESSED WALL BOX, WHITE POWDER COATED FINSH, 1/2" QUARTER TURN HOT & COLD VALVES, INTEGRAL WATER HAMMER ARRESTORS, 2" DRAIN OUTLET.
					Ρ	LU	ME	3IN	G DI	RAIN & CLEANOUT SCHEDULE
ID D	FIXTURE		VASTE		ETAIL/ SHEET	DESCRIP	TION/RE	MARKS		
B-1 C		FU T		177177					WITH FRAME	E AND GRATE, REFER TO DETAIL
	LOOR DRAIN	2 3	3"		7P800	FIXTURE:	ZURN Z	N415-B, C	AST IRON B	ODY, 6" DIAMETER NICKEL BRONZE "TYPE B" STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR.
		4	4"	r						DY, 9" DIAMETER NICKEL BRONZE YOP, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP & FRAME, AND HEAVY DUTY DEEP FLANGE SLOTTED GRATE.
	OOF DRAIN	_ -	$\overline{}$	-	_	FIXTURE:	ZURN Z		4-R ROOF D	RAIN, CAST IRON BODY, 15" DIA, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, UNDERDECK CLAMP, ADJUSTABLE EXTENSION, ROOF SUMP RECEIVER
		3	2° 1	-1/2"						WITH ZURN Z400U ADJUSTABLE STRAINER EXTENSION, CAST IRON BODY WITH SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP, EXTEND HUB 2" AFF (MIN).

FINISHED AREAS WITH HARD FLOORS; ZURN ZNINOZHP, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP & BRONZE FLUG,
FINISHED AREAS WITH CAPPETED FLOORS; ZURN ZNINOZBP-CM, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP & BRONZE FLUG, WITH CARPET MARKER.

UNFINISHED AREAS; ZURN ZNHTAN, CAST IRON BODY, HEAVY DUTY CLEANOUT HOUSING, WITH NICKEL BROIVZE TOP & INTERNAL CLEANOUT,
FIXTURE: ZURN 251468, POLISHED STAINLESS STEEL, ROUND ACCESS COVER, SECURING SCREW & BROIVZE RAISED HEX HEAD PLUG, VERIFY LENGTH OF SCREW REQUIRED WITH WALL CONSTRUCTION

																	_
	\\\\\ TE	D	$\overline{}$	$\Delta \Gamma C$	$\overline{1}$	ΙΛ	TIC	JVI	۱۸		2 K (SHEET	PLUMBING	LEGEND EXISTING PIPING TO BE REMOVED/DEMOUSHED		CALATIONIC	
	V V / 1 [. 0		J ()		111	711	VV	Oi	11/1	211661	CW 65	EXISTING PIPING (SERVICE DESIGNATED)	ABBK	EVIATIONS COMPRESSED AIR	
	WATER CALCULAT	ION W	ORKSH	EET FOR		FIRE STA	JON #1 &	NEW ADM	AN OFFIC	ES/316 W	DAYTON:	ST, MADISON, WI		SANITARY DRAIN, WASTE OR SEWER (SAN)	AC		
		,					N	WE/ADDE	ESS OF	PROJECT				STORM DRAIN CONDUCTOR OR SEYIER	AD AFF AD	AREA DRAIN ABOVE FINISHED FLOOR	
ſ	INFORMATION REC	UREC	TO CA	LCULATE	WATER	SERVICE	SIZE							OVERFLOW DRAIN		AIR OUTLET	
1	1, DEMAND OF BUILD	NI DAK	GALLONS	PERMINU	TE.				WS	FU# = 272	.5 =	(GPM) 105	- arı	GREASY WASTE	BWV	BACKWATER VALVE	
1	Z. DIFFERENCE IN E					RESSURI	E TANK T	BUILDIN	G CONTR	IOL VALVE	_	(leet) -40		CLEAR WATER WASTE WASTE UNDER FLOOR SLAB	CB CD CP CS CW	CATCH BASIN CLEANDUT	
1	3, SIZE OF THE WAT											(Inches) 1-1/2"		VENT (V)	CP CS	CLEANOUT CIRCULATION PUMP COLD SOFT WATER COLD WATER	
ı	4. DEVELOPED LENG							DING CON	ITROL VA	LVE.		(leet) 50'		CLEAR WATER VENT	CW	COLD WATER CLEARWATER WASTE	
ı	5. LOW PRESSURE	IT HAIN	IN STREE	ET OR EXTE	RNAL PRE	SSURE TA	ANK.					(pelg) 75		COLD WATER	CMA	CLEARWATER VENT	
Į														HOT WATER	DFU	DRAINAGE FIXTURE UNIT DISHWASHER	Ε
	CALCULATE WATE													HOT WATER RECIRCULATION	DW	DISHWASHER	
	6. LOW PRESSURE A	T MAIN	INSTREE	ET OR EXTE	RNAL PRE	BBURE TA	ANK IVAL	UE OF#	ABOVE)			79.00		NON-PUTABLE COLD WATER	E	EXISTING FLECTRICAL CONTRACTOR	
	7. WATER SERVICE			÷		TERIAL IS		DUCTILE			SURF LOSS			COLD SOFT WATER COMPRESSED AIR	EC	ELECTRIC WATER GOOLER	
	7. WATER SERVICE :	NAMET	EKIS		_ ^^	POSCHAL IS	o ECURINA				LE.: 55FT # .			COMPRESSED AIR NATURAL GAS	F	FIRE PROTECTION WATER SERVICE	
	PERTICIPI	- 02	<u> </u>	31 A	_	IDECINO				ON LINE 6		UBTOTAL 74.90		DDMESTIC WATER SERVICE	FCO FPC FT	FLOOR CLEANOUT FIRE PROYECTION CONTRACTOR	
								5,10,51				14.2		TEE (BRANCH TO SIDE)		PEET	
	e. DETERMINE PRES	SURE G	AIN OR L	OSS DUE TO	PELEVATI	ON.							<u> </u>	TEE (BRANCH DOWN)	G	NATURAL GAS GENERAL CONTRACTOR GREASE INTERCEPTOR/TRAP	
	IMULTIPLY THE VA										VALI	JE OF 18" 4,34	. ــــــــــــــــــــــــــــــــــــ	RISER UP	G GC GW	GREASE INTERCEPTOR/TRAP	
															GM.	GREASY WASTE	
	9. AVAILABLE PRESS	URE AF	TER THE	BLDG, CON	TROL VAL	VE.								CLEANOUT (CD)	HB HC HD HR HBY HBYR	HOSE BIBB	
	ISUBTRACT OR AC										91	JBTOTAL 79,24	OR	WALL CLEANOUT (WCO)	HD	HVAC CONTRACTOR HUB DRAIN	_
	CALCULATE THE PI	RESSU	RE AVA	ILABLE FO	DR UNIFO	ORM LOS	SS (VAL	UE OF 5	A*)				l	FLOOR CLEANOUT (FCO) YARD CLEANOUT (YCO)	HR HW		
	B. AVAILABLE PRESS										VAL	JE OF 18" 79.24	—	YARD CLEANOUT (YCO) UNION	HWR	HOT WATER HOT WATER RECIRCULATION	
												-		FLANGE	IE IM	INVERT ELEVATION ICE MAKER WALL BOX	
	C. PRESSURE LOSS	OF WATE	ERMETE	R MHEN M	ETER IS R	EQUIRED	OR INSTA	ULED!			VALU	IE OF "C" 8		FLOW	М.		
									NE C. FR	DIA LINE B	J SI	JBTOTAL 71.24	1	CHECK VALVE	L LT	LAVATORY LAUNDRY TRAY	
	D. PRESSURE AT CO	MTROLL	ING FIXT	URE.								25,50 °C' 70 3		HOSE BIBB (HB) OR WALL HYDRANT (WH)			
	(CONTROLLING F)	CTURE I	8	SHOWER O	THIRD F	R ADMIN	1)						EXISTING NEW	POINT OF CONNECTION (POC)	WE	METER MOP BASIN	
			_					SUBTRAC	T THE V	LUE OF D) st	ISTOTAL 46.24		CAP	NC NPC	NORMALLY CLOSED	
													Ф	BALANCING VALVE SHUT-OFF VALVE	NPC	NON-POTABLE COLD WATER	
	E. DIFFERENCE IN EL	EVATIO	N BETWE	EEN THE BU	ILDING CO	NTROL V	ALVE							PIPE STRAINER	PC PSI	PLUMBING CONTRACTOR POUNDS PER SQUARE INCH	
	AND THE CONTRO	LUNGF	IXTURE I	N FEET		35	X,43					JE OF "E" 15.19	-*	FIXTURE STOP			
							-	SUETRA	T THE V	LUE OF E) SI	JSTOTAL 31.05	O+	VALVE IN RISER	RPBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	D
													0	THERMOMETER		EINK	
	F, PRESSURE LOSS (ō.	PRESSURE GAUGE	SAN	SANITARY SANITARY EJECTOR	
	HEATERS AND BAI							FIXTURE					Ď.	WATER HAMMER ARRESTOR	SE SH SP ST	SHOWER	
	IPRESSURE LOSS	DUE TO	_	WATE	RSOFTEN	ER	_,					JE OF 15 15	م م		SP ST	SUMP PUMP STORM	
								ISUETRA	OF THE V	NUE OF F	., 51	IBTOTAL 16.05	<u> </u>	RELIEF VALVE	TD	TRENCH DRAIN	
	S. DEVELOPED LENG	nn-		nc cons	Dr. WALLET	m cove	9001147						-w111v-	RPBP - REDUCED PRESSURE ZONE			
	5. DEVELOPED LENG FIXTURE IN FRET	.m FRO	60 S60	ING CONTRO X 1.5		U LONTI	HOLLING				****	E OF 'G MO.00		BACKFLOW PREVENTER	UR	URINAL	
	- Wind to Lett)		201	- ^1.5				(Device 9	Y THE Y	LUE OF G		BTOTAL 0.0191	•	FLOOR DRAIN (FD) OR AREA DRAIN (AD)	V VTR	VENT VENT THRU ROOF	
	IWATER DISTRIBU	מים שכות	HNG MAT	FRIAI IR		YPE T' C			19		. at		. ©	HUE DRAIN (HD)	w	DOMESTIC WATER SERVICE	
	INTER OUT 1000	,,an rir				WE C LI	- PER				LH III	TIPLY SY 100	0	ROOF DRAIN (RD)	WC	WATER CLOSET	
	L PRESSURE AVAILA	BLE FO	RUNIFO	RM LOSS								E OF 'A' 1,91	` ⊕	DEMOLITION KEYED NOTE	WGO WM WH	WALL CLEAN OUT WASHING MACHINE WALL BOX	_
													•	NEW WORK KEYED NOTE	WHA.	WALL HYDRANT WATER HAMMER ARRESTOR	
							B-(0	*D+E+F)		7			Ā	REVISION KEYED NOTE	WHR	WATER HEATER WATER SOFTENER	
					FOR	MULA: A		G	X 104	1				TAG FOR CONTINUATION MATCH POINTS	WSFU	WATER SUPPLY FIXTURE UNIT	
							_							IVO 1 O'V COMMINATION BOATON LONG 19	YCO	YARD CLEANOUT	
-																1	
					F	JF	-C	ΓO	R۶	3 A	ΝD	SUMP	PUMPS	SCHEDULE			
		,										·					
	MANUFACTURER MODEL#			ECTRICAL		RPM		ARGE	_	SIN	DETAIL	DESCRIPTION/REMARKS		•		}	
ļ	MUDEL F	HP	AMPS	S VOLTS	PHASE	-	GPM	HDFT	DIA	DEPTH	SHEET	I man way	on graby and	DAOF DEG WEET LEE	entrers - to -	TAND HARDWARE COLOR	
l		1	1	1	1		1					MOTOR, AIR FILLED QUA	OR, STAINLESS STEE FT. 1-1/4" DISCHARGE	L CASE, PPO IMPELLER, 304 STAINLESS STEEL, 20 FT POWER CORD, OVERLOAD PROTECTION	. Straine N.	K AND HARDWARE, SINGLE SEAL	
I		1		1	1 .			ا ا						K ALARM, HIGH WATER ALARM AND PANEL, HI			
	B&G SCS21	1/4	2,5	115	1	3450	10	12	24*	24"	-	MOUNTING ACCESSORIE	5.				C
		1		1	1				}			BASIN & COVER: TOP IND BOLTED LID WITH GROW	OUSTRIES DOUBLE WA	ALL FIBERGLASS BASIN MOUNTED ON EMERGE	NCY GEN	ERATOR VAULT FLOOR, PROVIDE	
ŀ		-	+	+	-	 	 	-	<u> </u>	_		FLOOR MOUNTED FJECT	OR CAST IRON CASE	BRONZE IMPELLER, 304 STAINLESS STEEL ST	TRAINER A	HARDWARE, SINGLE SEAL MOTOR	
		1	1		1	1						DOUBLE SEALED BEARIN	GS, AIR FILLED HERN	TETICALLY SEALED SHAFT, 1-1/4" DISCHARGE,	15 FT POY	YER CORD, DVERLOAD	
		1	1		1							PROTECTION.				WHICH CHICKE THE LAND THE COLUMN	
	WEIL 1408	1/3	7.2	115	1	1750	15	18	24"	60*	-	ENCLOSURE, MANUAL D	AUTORY WIRED WALL	L MOUNTED SIMPLEX CONTROL PANEL, STEEL OR CIRCUIT PROTECTION, THROUGH THE DOC BLING SWITCH. INCLUDE WEIL 8234K1004G FL	CONSTRI	CHON, SINGLE PHASE, NEMA 1 , RUNNING PILOT LIGHT, HIGH	
l		1			1	1						WATER ALARM LIGHT AN	D BUZZER WITH DISA	BLING SWITCH, INCLUDE WEIL 8234K1004G FL	OAT SWIT	CHES: OFF (+6"), ON (+18"), AND	
		1		1		1						HIGH WATER ALARM (424	+).				
L		 	+	+	├	-	-					BASIN & COVER: EXISTING		BRONZE IMPELLER, 304 STAINLESS STEEL ST	DANKER .	NO HARDWARE SINGLE COAL	
ļ		1	1	1	1	1			١.,		1	MOTOR, DOUBLE SEALE	UK, GAST IKUN CASE D BEARINGS, AIR FILL	, BRONZE IMPELLER, 304 STAINLESS STEEL 51 ED HERMETICALLY SEALED SHAFT, 1-1/4" DISC	HARGE 1	NO HARDIYAKE, SINGLE SEAL 5 FT POWER CORD, OVERLOAD	
			1	1	-		1					PROTECTION.					
	WEIL 1408	1/3	7.2	115	1	1750	30	21	18"	24*	6/P800	CONTROLS: WEIL 8115 F	ACTORY WIRED WALL	MOUNTED SIMPLEX CONTROL PANEL, STEEL OR CIRCUIT PROTECTION, THROUGH THE DOC ING SWITCH, INCLUDE WEIL 8220 TETHER POL	CONSTRU	JCTION, SINGLE PHASE, NEMA 1	
		1	1	1				"				WATER ALARM LIGHT &	BUZZER WITH DISABL	ING SWITCH, INCLUDE WEIL 8220 TETHER POL	E WITH TH	REE PRESSURE DIAPHRAGM	_
			1	1	1						i	SWITCHES: OFF, ON, & H	IGH WATER ALARM,				
		<u> </u>	_		L	\perp	L							BUILDING CONTRACTOR, PC SHALL PROVIDE			
		[1	1							l _	TWO (2) FLOOR MOUNTE SINGLE SEAL MOTOR AL	D EJECTORS, STAINLE R FILLED SHAFT, 1-4M	ESS STEEL CASE, PPO IMPELLER, 304 STAINLE DISCHARGE, 20 FT POWER CORD, OVERLOAD	SS STEEL	STRAINER AND HARDWARE,	
		l	1	1	1	1 1					1	CONTROLS: CENTRIDEC	DIOCONI FACTORY	WIRED WALL MOUNTED OUR BY CONTROL PA	NEI CTEE	CONSTRUCTION SINGLE DUASE	
	B&G SCS31M	1/3	4.5	115	1	3545	30	10	36"	30-	l _	NEMA 1 ENCLOSURE, MA	NUAL DISCONNECT A	ND MOTOR CIRCUIT PROTECTION, HIGH WATE RIPRO AZN33 FLOAT SWITCHES: OFF (+2"), ON	RALARM	LIGHT AND BUZZER WITH	
	(DUPLEX)	~~	1	"	Ι΄.		-	ı				DISABLING SWITCH, INC ALARM (+14).	LODE FOUR (4) CENTS	NETTO AZNOS PLUM I SWITCHES: UPP (+2"), DN	(*10°), ST	HINDS (+12), AND HIGH WATER	
			1						-			BASIN & COVER: TOP IN	DUSTRIES DOUBLE W.	ALL FIBERGLASS BASIN MOUNTED ON EMERGE	ENCY GEN	ERATOR VAULT FLOOR, PROVIDE	
		L				$oxed{oxed}$						BOLTED LID WITH GROM	METS FOR PIPE & COL	IDUIT, AND 2" VENT IN COVER AND GOOSENED	CK, 12" ABC	OVE COVER.	
- 1		1	1	1	1	1 7	. 7				1	TWO (2) FLOOR MOUNTE	D EJECTORS (DUPLE)	(), CAST IRON CASE, BRONZE IMPELLER, 304 S	TAINLESS	STEEL STRAINER AND HARDWARE,	

SHEET INFORMATION

PROJECT MANAGER

PROJECT NUMBER

eppstein uhen : architects milinaukee 333 East Chicago Street
Milwaukee, Wisconsin 5202
(N 414 271 5350 for 414 2717794 222 West Washington Ave. Suite 550 Madison, Wisconsin 53703 tel 608 442 5350 fex 608 442 6680

PERE ENGINEERS INC.

IDR STORE PROJECT INFORMATION Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS BID DOCUMENTS

REVISIONS # DATE DESCRIPTION

KEY PLAN

BOLTED LID WITH GROWNETS FOR PIPE A CONCUIT, AND 2" VENT IN COVER AND GOSSENECK, (2" ABOVE COVER.

YNO (2) FLOOR MOUNTED ELECTORS (JUIL PED, CASE TIMON CASE, BROYDES IMPOLE, BY AS STANLESS STREE STRINLER AND HARDWAR
SINGLE SEAL MOTOR, DOUBLE SEALED BEARINGS, AIR FILLED HERMETICALLY SEALED SHAFT, 2" DISCHARGE, 15 FT POWER CORD,
OVERLOAD PROTOCTION.

CONTROLS: YIGLE 155 FACTORY WINED WALL MOUNTED DUPLEX CONTROL PANEL, STEEL, CONSTRUCTION, SINGLE PHASE, NEMA 1
ENCLOSURE, MANUAL, DISCONNECT AND MOTOR GROUPT PROTECTION. THROUGH THE DOOR RESET, RUNNING FILLOT LIGHT, HIGH
WATER ALARM LIGHT AND BUZZER WITH DISABLING SWITCH. INCLUDE WELL 829M/KIDMO G. LOAT SWITCHES: OFF (H6), ON H-16"),
BASIN & COVER: EXISTING TO REMAIN, ADD 2" VENT IN COVER AND GOOSSENECK 12" AFF.

MANUFACTURER MODEL 6 COM PEAK DROP LESSALT DIA HEIGHT DIA HEIGHT LBS SHEET DESCRIPTION/REMARKS 72 54 15 140,00050 21 52 24 50 750 10P800 CUBIC FEET OF MINERAL, AND BRINE TANK 120 YOLT PLUG CONNECTION.

CIRCULATION PUMP SCHEDULE

WATER SOFTENER SCHEDULE

MANUFACTURER ELECTRICAL RPM DISCHARGE DETAIL DESCRIPTION/REMARKS MODEL # HP AMPS VOLTS PHASE RPM HD FT SHEET DESCRIPTION/REMARKS

> PLUMBING SHEET INDEX P000 PD100 PD101 PD102 SYMBOLS, ABBREVIATIONS AND SCHEDULES - PLUMBING FS#1 BASEMENT DEMOLITION PLAN - PLUMBING FS#1 1ST FLOOR DEMOLITION PLAN - PLUMBING FS#1 2ND FLOOR DEMOLITION PLAN - PLUMBING PD103 P100 P101 P102 P103 P104 P300 P301 P302 P303 P304 P800 FS#1 3RD FLOOR DEMOLITION PLAN - PLUMBING FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - PLUMBING FS#1 1ST FLR AND ADMIN GROUND FLOOR PLAN - PLUMBING FS#1 2ND FLOOR AND ADMIN MEZZANINE PLAN - PLUMBING

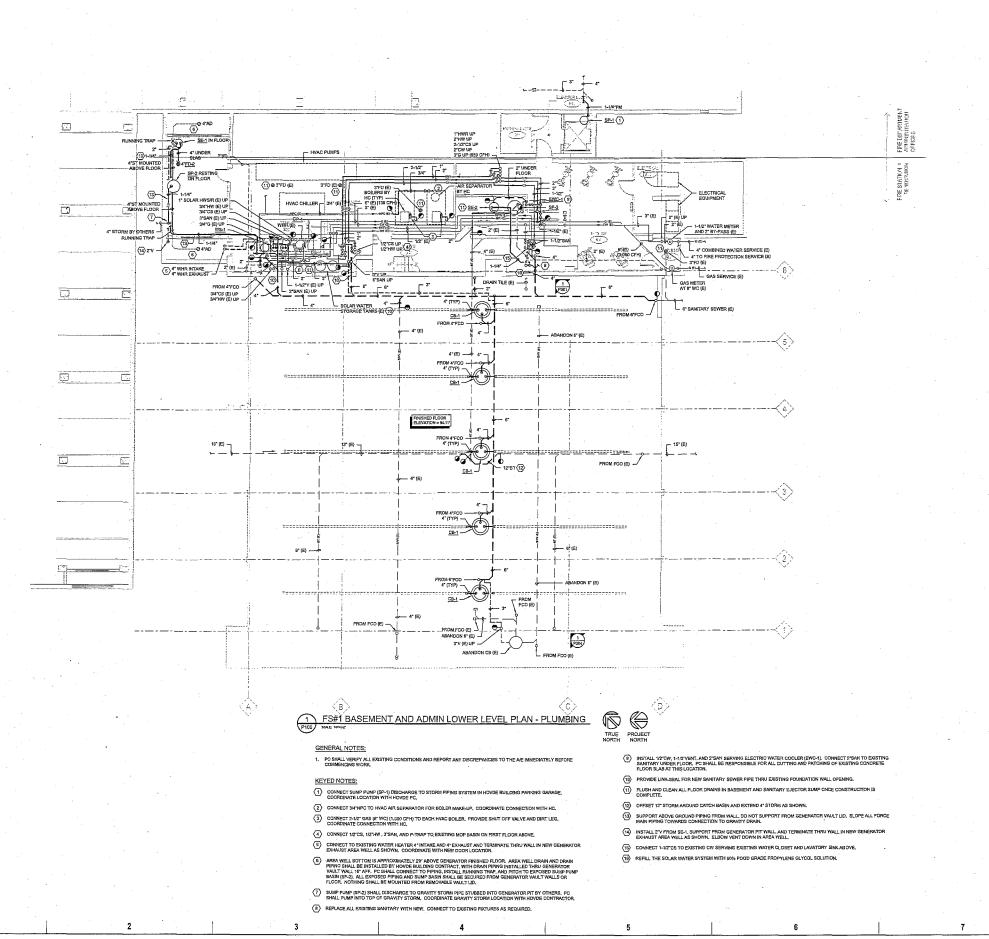
FS#1 2ND FLOOR AND ADMIN MEZZANINE PLAN-FIRE STATION #1 3RD FLOOR PLAN - PLUMBING ADMINISTRATION 2ND FLOOR PLAN - PLUMBING RISER DIAGRAMS - PLUMBING RISER DIAGRAMS - PLUMBING RISER DIAGRAMS - PLUMBING

RISER DIAGRAMS - PLUMBING RISER DIAGRAMS - PLUMBING DETAILS - PLUMBING

SYMBLS, ABBREV. AND SCHEDS - PLUMBING

P000

12149 01/09/2015





eppstein uhen: architects

3.3 East Chicago Street
Milmaukee, Wiscopal 5202
H 44 27 1550 Aa 40 2178
madison
Madison Wiscopal 5210
H 50 44 23250 Aa 608 442 666



EJDR BERNE.

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS BID DOCUMENTS

C REVISIONS

DATE DESCRIPTION

KEY PLAN

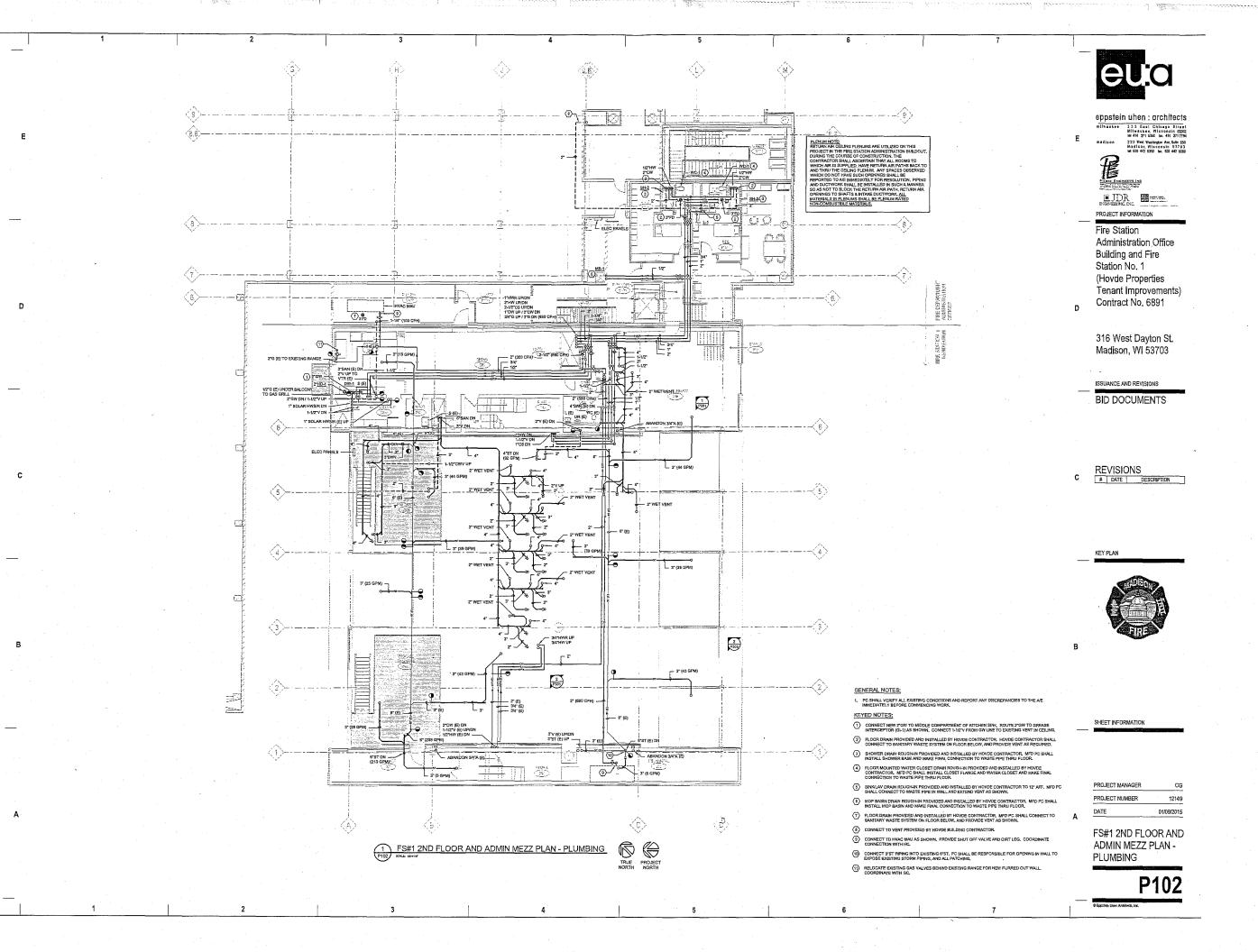


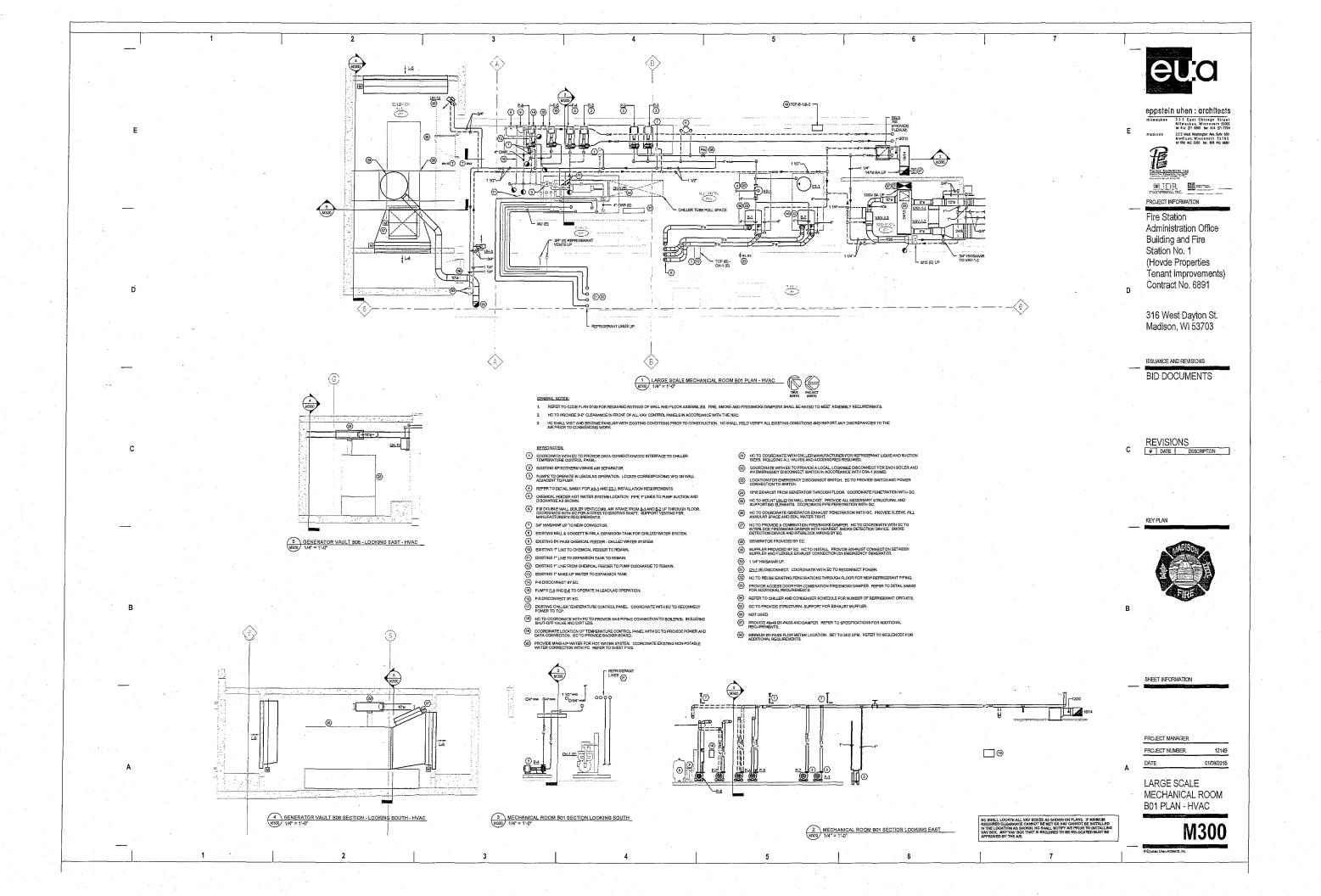
SHEET INFORMATION

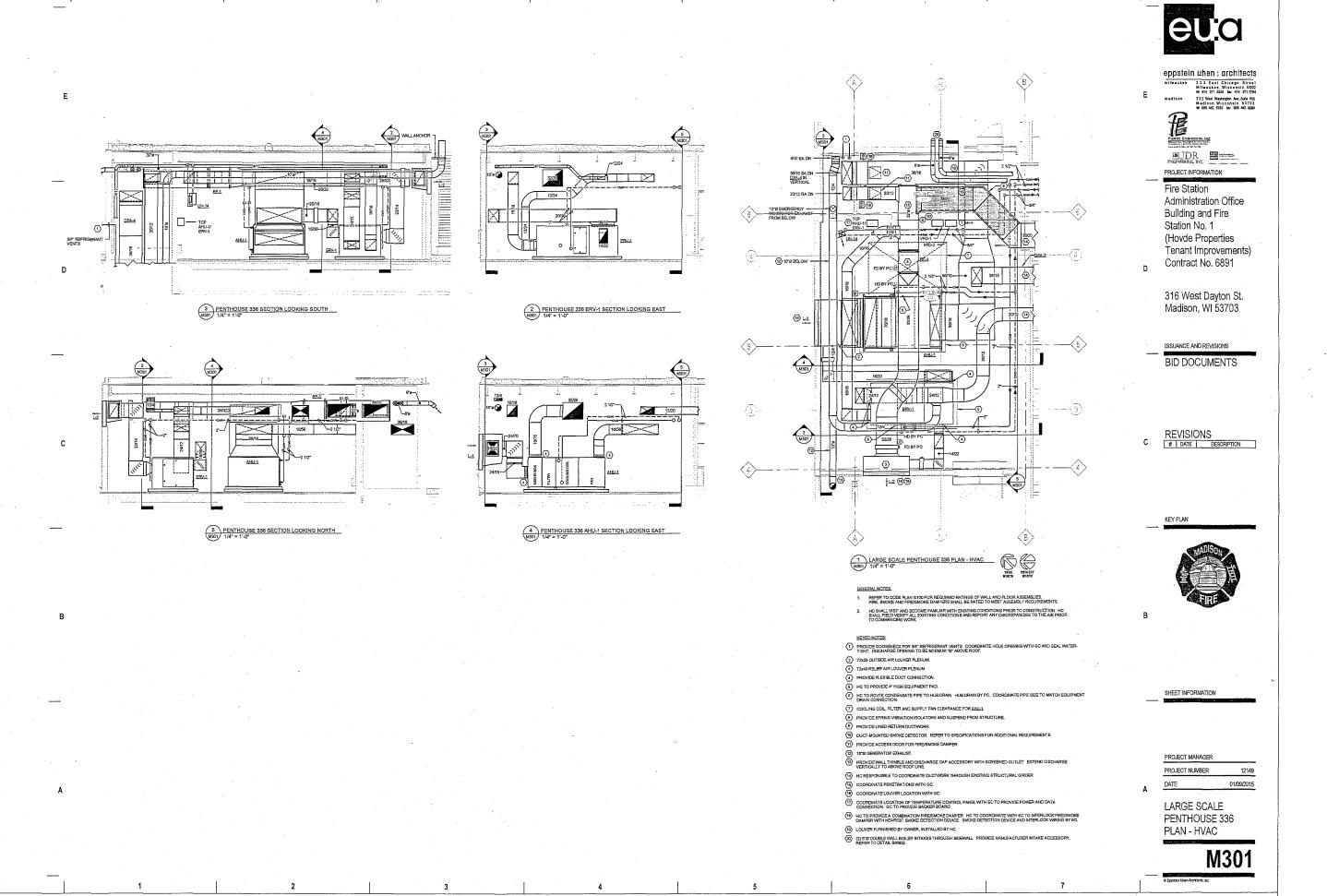
PROJECT NUMBER DATE	12149 01/09/2015
PROJECT MANAGER	CG

FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - PLUMBING

P100







_		1 -						
		HO.	T WA	TER	FIN 7	UBE		
	•	RAD	DIATIO	S NC	CHE	DULE	:	
5	NIT NO.	WF-1	WF-2	WF-S	WF-4	WF-S	WF-6	WF-7
M	ANUFACTURER	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL
M	DDEL NO.	RF-3	RF-3	RF-3	R2F-4	R2F-6	R2F-S	R2F-7
T	PE :	WALL MOUNT	WALL MOUNT	PEDESTAL	WALL MOUNT	WALL MOUNT	WALL MOUNT	PEDESTAL
EN	ICLOSURE HEIGHT (IN)	8 5/8"	8 5/5"	8 5/6"	11 1/2"	17 1/4*	14 3/6"	20 1/4"
ΕŅ	ICLOSURE DEPTH (IN)	T	z	2*	5"	5"	· 6°	5
ΕŅ	ICLOSURE LENGTH (F1)	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAK	SEE PLAN
R	ows	1	1	1	. 2	2	2	2
ţ	PIPE SIZE	r ,	r	1*	r	T*	1"	12
ELEMEN	FINSFT	32	32	32	32	32	32	32
Z	LENGTH (FT)	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
AV	G WATER TEMP (°F)	130.0	130.0	130,0	130.0	130.0	130,0	130,0
TÇ	P OF ENCL. MINTING HEIGHT AFF	30"	30*	30" .	30,	30*	4	30"
# C	OF TIERS	3	3	3	4	6	7	7
ΕA	T (°F)	70.0	70.0	70.0	70.0	70.0	70.0	70.0
ΕV	/T (*F)	140,0	140.0	149,0	140.0	140,0	140,0	140,0
WA	YER TEMPERATURE DROP (°F)	20	20	20	20	20	20	20
CA	PACITY (BTUIHRYLINEAR FT.)	375	375	375	808	1,160	1,034	1,286
70	BE SIZE	r	1"	1-	1°	1*	1"	1"
70	BE MATERIAL	STEEL	STEEL	STEEL	. STEEL	STEEL	STEEL	STEEL
FIN	SIZE	•		-	-		-	-
FIN	MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
FP!			•	-	٠.	-	•	-
TC	v	2-YAY	2-WAY	Z-WAY	2-WAY	2-WAY	2-YYAY	2-WAY
RE	MARKS	(1)	(2)	(3)	(1)	(1)	(1)	(2)(3)

GENERAL NOTES:

- KEYED NOTES:
- (1) WALL FIN TO HAVE OPPOSITE END SERIES B-TYPE CONNECTIONS, COORDINATE LOCATION WITH 5C AND EC TO AVOID ELECTRICAL OUTLETS.

Г	AIR COOLED						
CHILLER SCHEDULE							
UNIT	NO.	CH-1(E)					
SER	VICE						
LOC	ATION	MECH B01					
MAN	UFACTURER	YORK					
MOD	IEL NO.	YCRL0084HE					
TYP		AIR COOLED					
REF	RIG. TYPE	. R-410A	1	1			
CDC	LING CAPACITY (TONS)	70					
NO.	OF CIRCUITS	2					
NO.	OF COMPRESSORS	4					
REF	RIGERANT CONNECTIONS	2					
MAX:	PRESSURE (WATER PSIG)	150					
MAX	PRESSURE (REFR(G PS(G)	450]			
EWT	(*F)	54					
LWT	(°F)	44					
CHIL	LER WATER GPM	170					
WPD	(IN WC)	5.6					
WAT	ER VOLUME (GALL)	59,6					
7	VOLTS	208					
UNIT ELECTRICAL DATA	PHASE	3					
SE SE	MCA	314					
#E	MOCP	400					
រាធ	COMPRESSOR FLA	(4) 73,9					
Appr	ROX, WEIGHT (LBS)	3,597					

REMARKS KEYED NOTES:

- (1) EXISTING SPLIT AIR COOLED CHILLER

AIR COOLED CONDENSER UNIT SCHEDULE

SERVICE	1	DAIL NO.	ACC-((E)	<u> </u>
MODEL NO.	ı	SERVICE	CH-1 (E)	_
NOMINAL CAPACITY (TOKIS) 89	Ì	MANUFACTURER	YORK	
AMBIENT TEMP (°F) 85 CONDENSER TEMP (°F) 125 REFUGUA SUSCIOUNDS (°F) 10 OPERATING TEMP. OFFERENDE (°F) 143 HEART RELIGIOTION CAPACITY (MHH) 513.3 AIR FLOW (CHA) 46.885 NO, OF CONDENSER FANS 6 NO, OF CONDENSER FANS 7 REFUGUENT (*F) 7 REFUGUENT TYPE R-10A REFUGUENT TYPE R-10A REFUGUENT CHARGE 1 REFUGUENT CHARGE 2 REFUGUENT CHARGE 2 REFUGUENT CHARGE 2 REFUGUENT CHARGE 2 REFUGUENT CHARGE 3 REFUGUENT CHARGE 2 REFUGUENT CHARGE 3	İ	MODEL NO.	VDC-235D10	
CONDENSER TEMP (*F) 125 REFUSE. SUBCOOLUNG (*F) 10 OPERATING TEM, OFFERENCE (*F) 14.9 HEAR RESISTION CAPACITY (MBH) 98.3 AIR FLOW (CFM) 46.886 NO, OF CONDENSER FAMS 6 NO, OF CONDENSER FAMS 7 REFUGUERANT TYPE R-410A REFUGUERANT TOME 82E (2) REFUGUERANT LIME 82E (2) REFUGUERANT LIME 82E (2) REFUGUERANT LIME 82E (2) REFUGUERANT LIME 82E (2) CONDENSER FAMS (LIME) 2.147 VOLTSMAGE 7 FLOOREMSER FAMS (LIME) 2.847 VOLTSMAGE 7 FLOOREMSER FAMS (LIME) 2.828 UNIT MCA 36 UNIT MCA 36 UNIT MCA 36 UNIT MCA 46	i	NOMINAL CAPACITY (TONS)	80	$\overline{}$
WEFNUS. SUBCOOLING (*F) 10 10 10 10 10 10 10 1	I	AMB(ENT YEMP ("F)	96	
OPERATIVE TEMP, DIFFERENCE (*F) **HEAT REJECTION DAPACHTY (MRH) **PART REJECTION DAPACHTY (MRH) **PART REJECTION DAPACHTY (MRH) **PART REJECTION DAPACHTY (MRH) **PART REJECTION DAPACHTY REJECTION **REFRUGERANT TYPE **REFRUGERANT TYPE **REFRUGERANT TOWNSCHOON **PROGRAMT CONNICTION **PROGR	I	CONDENSER TEMP ("F)	125	
HEAT REJECTION CAPACITY (MEH)	I	REFRIG. SUBCOOLING ("F)	10	
AR FLOW (CPNs) 46,686 NO, OF CONDENSER FANS 6 NO, OF CRECUTS 2 REFUGEEMENT TYPE R-10A REFUGEEMENT TYPE R-10A REFUGEEMENT TYPE R-10A REFUGEEMENT TOWN CONDECTION 2 58°T REFUGEEMENT CONNECTION 2 58°T REFUGEEMENT RANGE (S) 2.14°T VOLTSMANSE 258°S VOLTSMANSE 50°S (S) 4.6 (1 + P°SV) FLA 26.6 UNIT MOCO 36°S	I	OPERATING TEMP, DIFFERENCE ("F)	14,9	
NO, OF CONDENSER FANS 8 NO, OF CIRCUITS 2 REFRIGERANT TYPE RA1DA REFRIGERANT LINE SIZE REFRIGERANT LINE SIZE REFRIGERANT LINE SIZE REFRIGERANT LINE SIZE 2 REFRIGERANT LINE SIZE 2 REFRIGERANT LINE SIZE 2 CONDENSER RA1FLA 16) 4.6 (1 HP EA) FIA 2 UNIT MCA 3 5 UNIT MCA 46	I	HEAT REJECTION CAPACITY (MBH)	983,3	
NO, OF CIRCUITS 2	Į	AIR FLOW (CFM)	46,685	
REFIGURANT TYPE R-410A REFIGURANT CHARGE - REFIGURANT CHARGE - REFIGURANT CONNECTION 2 56* CONCENSER FAN FLA 16,4.6 (1 HP EA) FLA 26.6 UNIT MODP 46 UNIT MODP 46	I	NO, OF CONDENSER FANS	6	
REFRIGERANT CHARGE (2)	I	NO, OF CIRCUITS	2	
REPRISEMENT LINE SIZE (2)	E	REFRIGERANT TYPE	R-410A	
REFRIGERANT CONNECTION	I	REFRIGERANT CHARGE	-	
APPROX. WEIGHT (LES) 2,147 VOLTEMANSE 2000 2000 2000 2000 2000 2000 2000 200	I	REFRIGERANT LINE SIZE	2	
VOLTS/PHASE 2003 CONDENSER FAN FLA (6) 4.8 (1 HP EA) FLA 28.8 WIT MACA 36 UNIT MOCP 40	I	REFRIGERANT CONNECTION	2 5/8*	
CONDENSER FAN FLA (6) 4.8 (1 HP EA) FLA 28.8 UNIT MCA 26 UNIT MCCP 40	I	APPROX. WEIGHT (LBS)	2,147	
FLA 28.8 UNIT MCA 36 UNIT MCCP 40	I	VOLTSIPHASE	208/3	
UNIT MCA 26 UNIT MOCP 40	I	CONDENSER FAN FLA	(6) 4.8 (1 HP EA)	
UNIT MOCP . 40	I	FLA	28,8	
	Ĺ	UNIT MCA	36	
REMARKS (1)	E	UNIT MOCP .	40	
	I	REMARKS	1	

KEYED NOTES:

AIR HANDLING UNIT SCHEDULE

	,,,,,,,		7 (11 (0) (1
	AHU-1	AHU-2	UNIT NO.
ĸ	PENTHOUSE 336	MECH 234	SERVICE
	FS#1	ADMINISTRATION	MANUFACTURER
TURER	MCGUAY	MCQUAY	MODEL NO.
UMBER	CAH017GDGC	CAHDIOGDGC	SUPPLY CFM
(CFM)	7,770	19,070	OA CFM
CFM)	1,800	1,750	EXT, SP (IN WC)
DE AIR	22,5%	9.5%	FAN DIAMETER
N TYPE	CENTRIFUGAL PLENUM	CENTRIFUGAL PLENUM	FAN TYPE
HEEL TYPE / DIA. (IN)	AJRFOIL / 22.3	AIRFOIL/30.0	ENT. AIR TEMP (°F)
P ("WG) / ESP (WG)	4,53 / 2.0	4,49 / 2,0	LEAVING AIR TEMP (°F)
NVE TYPE	DIRECT	DIRECT	INPUT CAPACITY .
74	1,800	1.750	OUTPUT CAPACITY
	8,4	21,5	GAS PRESSURE
	10,9	25.0	FAN (HP)
3	208	208	FAN RPM
E	3	3	FAN BHP
ED ROTOR CURRENT	179.3	403.8	MCA
LOAD CURRENT	25,9	63.5	MOCP
	YES	YES	VOLTS/PHASE
N ISOLATOR TYPE	SPRING	SPRING	FUEL TYPE
N ISCLATOR DEFLECTION	-	-	FILTER TYPE
WATER COOLING COIL			UNIT WEIGHT
6	76,1	75,5	REMARKS
/B	63,5	63.0	KEYED NOTES:
F	54,1	53.7	1 PROVIDE WITH REMOTE MOUN
B	53,2	52.6	LOWHIGH GAS PRESSURE SWI MOTORIZED DAMPER, STAINLE
s	1	2	CONTROL, DOUBLE WALL INSU
5	4	5	2 PROVIDE WITH TOP DISCHARGE
NCH	19	10	
PACITY (MRH)	235.5	573.1	1107

464 494 0.58 0,58 14.5 15.1

HOT WATER BOILER SCHEDULE

	ı	DOILER			
	TINU	ND,	B-1	B-2	Т
	LOCA	ATION	MECH B01	MECHB01	
	MAN	UFACTURER ·	AERCO	AERCO	
L	MOD	EL NO.	BMK 1000	BMK 1000	
	NAT	JRAL GAS INPUT (MBH)	1,000	1,000	_
	RATE	D IBR/AGA OUTPUT (MBH)	910	910	
	EWT		110	110	
	LWT		140	140	
	нот	WATER (GPM)	145	145	_
	VENT	MINTAKE DIAMETER	6.48.	575	
	WAT	ER CONNECTION DIA (IN)	37/3*	373-	
	Trans.	VOLTS	120	120	_
	ELECTRICAL REQUIREMENTS	AMPS	13	13	_
	ECT SECT	PHASE	1	1	_
-	교요	MOCP	20.0	20,0	_
	UNIT	WEIGHT (LBS)	520	B20	

GAS-FIRED MAKE-UP AIR UNIT SCHEDULE

UNIT NO.	MAULT	MAU-2	
SERVICE	KITCHEN	APPARATUS BAY	
MANUFACTURER	GREENHECK	GREENHECK	
MODEL NO.	DGX-108	DGX-116	
SUPPLY CFM	1,900	5,890	
OA CFM	200,1	5,800	
EXT, SP (IN WC)	0,75	0.75	
FAN DIAMETER	-		
FAN TYPE	-	-	
ENT. AIR TEMP (°F)	-15	-15	
LEAVING AIR TEMP ("F)	79.0	70.0	
INPUT CAPACITY .	99.8	578,7	
OUTPUT CAPACITY	91.8	532.4	-
GAS PRESSURE	8" W,C, MAX	8" W.C. MAX	
FAN (HP)	0.75	5.0	
FAN RPM	1.456	937	T .
FAN BHP	0,58	3,96	
MCA	5,1	22.8	
MOCP	15	30	
VOLTS/PHASE	208/3	208/3	
FUELTYPE	NATURAL GAS	NATURAL GAS	
FILTER TYPE	2" MERV 8	2" MERV 6	
UNIT WEIGHT	700	1,200	
REMARKS	0	①(2)	

HOT WATER CABINET

UNIT NO.	CUH-1	CUH-2	CUH-3	CUH-4
LOCATION	STORAGE 101	STORAGE 103	LAUNDRY 196	CORRIDOR
MANUFACTURER	MODINE	MODINE	MODINE	MODINE
MODEL NO.	CW004	C1Y004	CW014	C004
CAPACITY (MBH)	24,2	24,2	42.6	24,2
AIRFLOW (CFM)	440	440	1,430	440
GPM	2.5	2.5	4.4	2.5
EWT/LWT (°F)	140/120	1401120	140/120	140/120
WPD (FT)	2.4	2.4	0,3	2.4
EAT (°F)	55	55	55	55
MOTOR HP	1/20	1/20	(2) 1/20	1/20
VOLTAGE/PHASE	115/1	115/1	115/1	11511
FAN SPEED (RPM)		-		-
INVERTED FLOW	NO	ND	NO	ND
MDUNTING	CEILING	CEILING	SEMI-RECESSED	FLOOR
RECESS (IN)	-		8.	-
TCV SIZE	2 WAY	2 WAY	2 WAY	2 WAY
REMARKS	(2)	(2)	(1)	(2)

- PROVIDE WITH PERMALAP FRAME, INTEGRAL DISCONNECT, AND DDC THERMOUNT HEATER TO BE WHITE.

UNIT HEATER SCHEDULE

UNIT NO.	CUH-1	CUH-2	CUH-3	CUH-4
LOCATION	STORAGE 101	STORAGE 103	LAUNDRY 196	CORRIDOR 115
MANUFACTURER	MODINE	MODINE	MODENE	MODINE
MODEL NO.	CWD04	C1Y004	CW014	C004
CAPACITY (MBH)	24,2	24,2	42.6	24,2
AIRFLOW (CFM)	440	440	1,490	440
GPM	2.5	2,5	4.4	2.5
EWT/LWT (°F)	140/120	140'120	140/120	140/120
WPD (FT)	2.4	2.4	0,3	2.4
EAT ("F)	55	55	55	55
MOTOR HP	1/20	1/20	(2) 1/20	1/20
VOLTAGE/PHASE	115/1	115/1	115/1	1151
FAN SPEED (RPM)	*		-	-
INVERTED FLOW	NO	NO	NO	ND
MOUNTING	CEILING	CEILING	SEMI-RECESSED	FLOOR
RECESS (IN)	-	-	8-	-
TCV SIZE	2 WAY	2 WAY	2 WAY	2 WAY
REMARKS	(2)	2	①	2

- PROVIDE INTEGRAL DISCONNECT, AND DDC THERMOSTAT, CABINET UNIT HEATER TO BE WHITE

KEY PLAN



eppstein uhen : architects milnaukee 3 2 3 East Chicago Street Milmaukee, Wisconsin 53202 to 414 271 5350 (at. 414 271 7794

EJDR BOOKERING ENC PROJECT INFORMATION

Administration Office Building and Fire

Fire Station

Station No. 1

(Hovde Properties

Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
DATE DESCRIPTION

EXPANSION							
TANK	SCH	EDUL	Ε				
UNIT NO.	ET-1	ET-1 (E)					
SERVICE	HOT WATER	CHILLED WATER					
LOCATION	MECH BD1	MECH 901					
MANUFACTURER	BELL AND GOSSETT	BELL AND GOSSETT					
MODEL NO.	B-400LA	B-185LA					
ACCEPTANCE VOLUME (GAL)	53	27					
DIAMETER (IN)	24	20					
HEIGHT (IN)	68,625	40					
	4	-					

FINAL FILTER TYPE
FINAL FILTER EFFICIENCY
FINAL FILTER DEPTH (IN)
MAX FINAL FILTER VELOCITY

(1) (9) 20X24X2 AND (6) 20X20X2 PLEATED FILTERS

(2) (9) 20X24X12 AND (6) 20X20X12 SH CARTRIDGE FILTERS. (3) (6) 20X24X2 AND (6) 20X20X2 PLEATED PILTERS.

KEYED NOTES:

1	1'Ø CONNECTION, TANK TO BE ASME 125 PSI PATED AND PRE-CHARGED TO

		}	TOF	WATE	ER U	NIT H	IEAT	ER S	CHE	DULE				_
UNIT NO.	UH-1	UH-2	UH-3	UH-4	UH-5	UH-6	UH-7	UH-8	UH-9	UH-10	UH-11	UH-12	UH-13	UH-14
LOCATION	GARAGE 110	MECH 234	MECH B01	APPARATUS 104	STORAGE 107	SYORAGE 201	MECH 202	STORAGE M110	GENERATOR PIT	PENTHOUSE 33				
MANUFACTURER	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE	MODINE
MODEL NO.	HSB-88	HSB-86	HSB-86	V-247	V-247	V-247	V-247	V-247	H59-86	HSB-86	HSB-86	H38-86	HSB-86	HSB-86
TYPE	HORIZONTAL	HORIZONTAL	HORIZONTAL	VERTICAL.	VERTICAL	VERTICAL	VERTICAL	VERTICAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
THROW (FT)	33.0	33,0	33,0	25,0	25,0	25.0	25,0	25.0	33.0	33.0	33.0	33.0	33,0	33.0
AIRFLOW (CFM)	825	625	625	4,620	4,820	4,620	4,820	4,820	825	825	625	625	825	825
EAT (°F)	55	55	95	55	55	55	55	55	- 55	55	55	55	55	55
CAPACITY (MBH)	33.1	33,1	33,1	103,8	115,3	115.3	116.3	115,3	33,1	33.1	33.1	33.1	33,1	33,1
GPM .	2.2	. 5.2	2.2	8.9	6.9	6.9	6.9	6.9	2.2	2.2	2.2	2.2	2.2	2.2
EWT ("E)	140	140	140	140	140	140	149	140	140	140	140	140	149	140
.WT ("F)	110	110	110	119	110	110	110	110	110	110	110	110	119	110
NPD (FT)	1.0 .	1.0	1.0	3.0	3,0	3,0	3.0	3.0	1.0	1.0	1.0	1.0	1.0	1,0
NOTOR HP	1/8	1/8	1/8	1/2	1/2	1/2	:1/2	1/2	1/8	1/8	1/8	1/8	1/8	1/8
OLTAGE/PHASE	115/1	115/1	115/1	115/1	115/1	115/1	11571	115/1	115/5	115/1	115/1	115/1	115/1	115/1
RPM	1000	1000	1090	1075	1075	1075	1075	1075	1000	1000	1000	1000	1000	1000
AN SPEED	LOW	LOW	LOW	HIGH	HIGH	HIGH	HIGH	нен	LOW	LOW	LOW	LOW	LOW	LOW
EMARKS	1	①	1	0	1	1	0	•①	0	①	①	①	1	0

PUMP SCHEDULE

KEYED NOTES:

AIR DEVICE SCHEDULE

						_						AIR	DEVI	CE S	CHE	DOLE	_	-	_												
EG - 1 (3)	THROW (IF OTHER THAN NORMAL) - UNIT NUMBER - CFM	SG = S RG = R EG = E	UPPLY GRILLE ETURN GRILLE XHAUST GRILLE	LD = Llr CD = Ci TG = TF	EAR DIFFUSER (S ILING DIFFUSER I ANSFER GRILLE	SUPPLY) (SUPPLY)																									
UNIT NO.	CD-1	CD-5	CD-3	GD-4	CD-5	CD-6	CD-7	CD-8	CD-9	CD-10	EG-1	EG-2	EG-3	EG-4	EG-5	EG-6	RG-1	RG-2	RG-3	SG-1	SG-2	SG-3	SG-4	SG-5	SG-8	SD-1	TG-1	TG-2	TG-3	TG-4	TG-5
SERVICE	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	RETURN	RETURN	RETURN	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	TRANSFER	TRANSFER	TRANSFER	TRANSFER	TRANSFER
MANUFACTURER	· mus	TITUS	Tmus	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	Titus	TITUS	TITUS	TITUS	TITUS	TITUS	mus	mtus	TITUS	TITUS	TITUS	mus	TITUS	TITUS	mus	TITUS	TITUS	TITUS	SUTIT
MODEL NO.	OMNI	OMNI	OMNI	OMN	TDC	TDC	TDC	PAS	TDC-AA	OMNHAA	350-FL	350-FL	350-FL	63FL	63FL	350-FL	350-RL	350-RL	50F	301RL	301RL	301PL	301FtL	301RL	301RL	TBD	SOF	350-RL	350-RL	359-RL	350-FL
FACE STYLE	PLACIUE	PLAQUE	PLAQUE	PLAQUE	LOUVERED	LOUVERED	LOUVERED	PERFORATED	LOUVERED	LOUVERED	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	EGG CRATE	DEFLECTION	SINGLE	DEFLECTION	SINGLE	SINGLE DEFLECTION	DEFLECTION	SLOT DIFFUSER	EGG CRATE	DEFLECTION	DEFLECTION	SINGLE DEFLECTION	DEFLECTION
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE .	WHITE	WHITE	WHITE
MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	ALUM	ALUM	ALUM	ALUM .	ALUM	ALUM	ALUM	ALUM	STEEL	STEEL	ALUM	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	ALUM	STEEL	STEEL	STEEL	ALUM
SIZE (FACE/NECK)	24X24/6°B	24X24/6°@	24X24/10°0	24)(24/810	24X24/12X12	24X24/9X9	24X24/6X5	24X24/12X12	24X24/21X21	24X24/ETØ	12X12/10X10	14X14/12X12	22X12/20X10	24X24/22X22	18X34/16X32	24X12/22X10	18X10/16X8	18X16/15X14	24X24/20X20	10X8/8X6	14X8/12X8	20X8/18X6	20X10/18X8	20X1018X8	42X14/40X12	4'-0"/10"@	24X24/22X22	26X16/14X14	20X14/18X12	35X14/34X12	12X12/10X10
CFM RANGE	0-100	105-220	225-440	105-229	406-500	170-400	75-165	250-599	1,550	9-100	0-225	230-440	445-580	1,600	1,500	0-600	350	500-700	0-1,285	0-206	210-310	315-445	450-515	450-615	1,450	240-300	0-1,000	946	350	1,225	0-225
MOUNTING	LAY-IN	LAYIN	LAY-IN	SURACE	LAY-IN	LAY-IN	LAYHN	LAY-IN	LAY-IN	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	LAY-IN	SURFACE	SURFACE	LAY-IN	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	'LAY-IN	SEE PLANS	SURFACE	SURFACE	SURFACE	SURFACE
DAMPER		-				-		-		-	SEE PLANS	SEE PLANS	-	YES	YES	-	-	YES	T -	-	-	-	-	YES	YES	NO	SEE PLANS	NO	NO	ND	1
BEMARKE					· · · · · · · · · · · · · · · · · · ·	1		(3)		1 .					 	1 (5)	1	i	1		1					(D)					

- KEYED NOTES:
- 1 PROVIDE DIFFUSER WITH
- 2 SLOT DIFFUSER TO HAVE 10'8 OVAL INLET, 2 SLOTS, 1" SLOT WIDTH.
- (3) COORDINATE WITH GC TO PROVIDE REQUIRED T-RAR FOR ORIGINAL EMPLINTING

(1) PROVIDE WITH DDC TEMPERATURE SENSOR.

KEYED NOTES:

LOCATION

OF COILS

EWT ("F) / LWT ("F)

EAT ("F) DB / EAT WB ("F)

LAT ("F) DB / LAT WB ("F) WPD (FT)

FACE VELOCITY (FPM)

PROVIDE PUMP WITH SHUT-OFF VALVE AND CHECK VALVE AT PUMP DISCHARGE AND SL
 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CHILLED WATER

COIL SCHEDULE

MECH 234 PENTHOUSE 339

57,6

44/52,0

79,8/55,5

0.54 2 WAY

(Z) RENEWAIRE MANUFACTURER SUPPLIED COOLING COIL MODULE FOR ERV-1, PROVIDE ALUMINUM RINS AND COPPER TUBES.

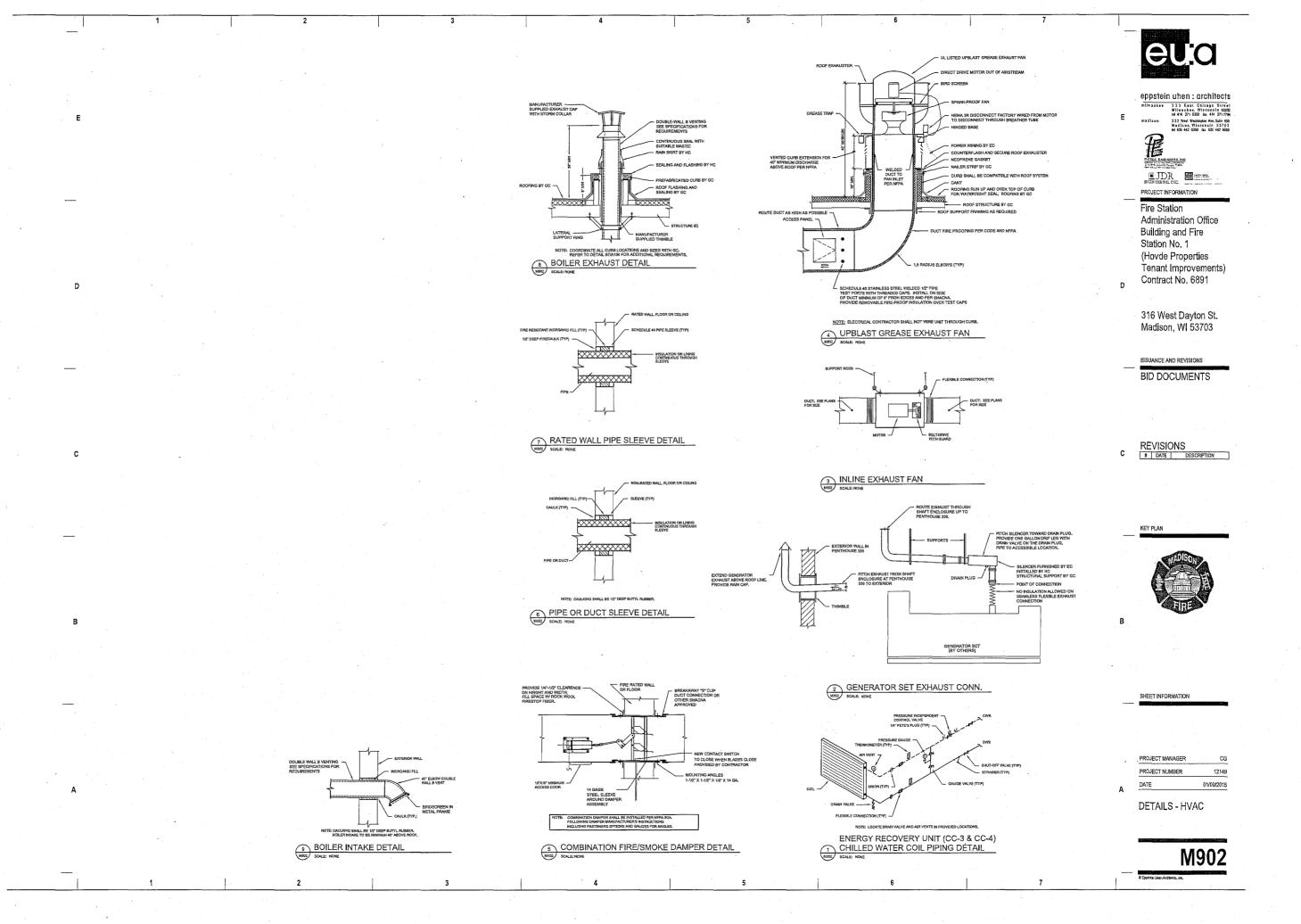
0.53 2 WAY

SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149

SCHEDULES - HVAC

M800



			A	BBREV	/IATIONS	BOL = BUILT-IN OVER MAG = MAGNETIC STA MAN = MANUAL STAR	VRTER	RVS	= VARIAE = REDUC = 2 SPEE	ED VOLT	AGE 51	ARTER	OU =		r .	CS = DS = EC =	DISCONN ELEC. CO	NTRACTO		M	C = MEC		ACTOR	
Į,	NUM.	LOAD	VOLT	PHASE	LOC.	DRIVER	PANEL	FROM	BRE	AKER	NO	BRAI	GRND.	COND.	NEWA	STAR	TER WIRING	LOC,	SZE	POLE	DISC, WIRI	NG BY	LOC.	,NOTE
ŀ	╗	25HP	208	3	B11	ELEVATOR	MOP		100	3	3	3	8	1-1/4"			-		100	3	DS	EC	B11	4
ŀ	2	285W	120	1	811	CEF-1	B/A	B	20	,	2	12	12	3/4			-		30	2	DS	EC	B11	11
ŀ	3	7.5HP	208	3	B01	P-1	B/B	1,3,5	50	3	3	8	10	7"	١.	VFD	мс	B01		-			-	
H	4	7.5HP	208	3	B01	P-2	B/B	7,9,11	50	3	3	В	10	1"	-	VFD	МС	B01		-	1 :			-
ŀ	5	7.5HP	208	3	B01	P-3	88	13,15,17	50	3	3	В	10	1*	-	VFD	мс	B01	-	-			-	·
ŀ	6	7.5HP	208	3	B01	P-4	8/8	19,21,25	50	3	3	8	10	12	-	VFD	MC	BC1	-	-	-	-		
H	7	13A	120	,	B01	B-1	88	41	20	1	2	12	12	34"		٠.			30	2	DS	EC	B01	8
H	В	13A	120	1	901	B-2	B/B	2	20	1	2	12	12	34"		· ·	-	-	30	2	DS	EC	501	ā
H	9	1.5 HP	208	3	104	OVERHEAD DOOR OPERATOR	VARIES	VARIES	15	3	3	12	12	34"	-	-		-	30	3	DS	EC	104	7
ŀ	10	1/8HP	120	1	110	UR-1	1/A	37	20	1	2	12	12	34"			-	-	30	2 .	DS	EC	110	-
H	11	1/2 HP	120	1	ROOF	₽-1	3/A	33,35,37	20	1-	2	12	12	3/4"		-	-	-	30	2	DS (3R)	EC .	ROOF	-
F	12	1.5HP	208	3	B01	P-6	B/B	31,33,35	15	3	3	12	12 -	3/4"		cs	EC	B01	-		-		-	6
-	13	1.0HP	208	3	110	VEF-1	1/A	49,51,53	15	3	3	12	12	3,44	00	cs	EC	110			٠.	-	-	12
Н	14	21A	206	1	M111	AC-2	A2/C	51,53	25	2 ′	2	- 12	12	34"			-	-	30	2	DS	EC	M111	1
Н	15	5.1A	206	3	M110	MAU-1	2/A	17,19,21	15	3	3	12	12	3/4"		cs	EC	M110		-	-		-	7
Н	15	21A	208	1	ROOF	ACQJ-2	A2/C	51,53	25	2	2	12	12	3/4"			_		30	2	DS (3R)	EC	ROOF	
H	17	314A	208	3	B01	CH-1 (E)	MOP		400	3	(2)3	(2) 3/0	(2) 3	(2)2"	-				400	3	DS	EC	B01	6
H	18	2@1/2HP	208	3	B03	SP-3	BIA	13,15,17	15	3	3	12	12	3/4"	-	-	1 -		30	3	DS	EC	B03	13
H	19	_	⊢~		803	SE-2	BVA	19	20	1	2	12	12	3/4"		-	-	-	30	2	DS	EC	B03	13
-	20	1/3HP	120	1	B03 B01	UH-3			20	,	2	12	12	3/4"				-	30	2	DS	EC	B01	-
H	20	1/2HP	120			UH-4	8/8	37	20	1	2	12	12	3/4"	١.	-	-		30	2	DS	EC	104	
-				1	104	UH-S	2/8	8	20	1	2	12	12	3/4"	1-		-	<u> </u>	30	2	DS	EC	104	-
-	22	1/2HP	120	1	104	UH-6	2/8	11	20	1	2	12	12	34"	-		1		30	2	DS	EC	104	
H	23	1/2HP	120	1	104	UH-7	2/8	13		-	2	12	12	3/4"	 				30	2	DS	EC	104	-
ŀ	24	1/2HP	120	1	104	UH-7	2/8	15	20	1 .				3/4"	ŀ.	H.	H	H	30	2	DS	EC	104	-
-	25	1/2HP	120	1	104		2/9	17	20	1	2	12	12	3/4"	 	H-	- -	<u> </u>	30	2	DS	EC	106	
-	26	FRAC. HF	120	1.	106	CUH-3	1/A	19	20	3	3	12 8	12	- -	 	VFD	MC	336	-	<u> </u>	-	-		-
Н	27	7.5HP	208	3	338	RF-1	3/A	32,34,36	50	_	3			1"	<u> </u>		-	336	H	 -	-	-	H	-
1	28	10HP	205	3	336	AHU-1	3/A	38,40,42	50	3	_	6	10	3/4"	<u> </u>	VFD	MC	_	1		-		-	<u> </u>
⊦	29	11.1A	208	3	335	. ERV-1	3/A	26,28,30	30	3	3	10	10		Ŀ	VFD	MC	336	80			EC .	ROOF	2
⊢	30	36A	208	3	Roor	ACC-1 (E)	3/A	11,13,15	40	3	3	8	10	1"	-	-	-	<u> </u>		3	DS(3R)		ROOF BOS	13
1	31	1/4HP	120	1	908	SE-1	B/B	45	20	1	2	12	12	3,4"	15.	<u> </u>		•	30	2	DS(3R)	EC		
L	32	21A	208	1	223	AC-1	3/A	29,31	25	2	2	12	12	3/4"	Ŀ	<u> </u>	-	٠	30	2	DS	EC	223	1
Ĺ	33	5.0HP	208	3	ROOF	RF-2	DP/A	1,3,5	30	3	3	10	.10	3/4"		VFD	MC	234	30	3	DS(3R)	EC	ROOF	·
	34	25HP	208	3 .	234	AHU-2	DPYA	7,9,11	100	3	3	3	8	1-1/4"	٠	VFD	MC	234	٠	·	<u> </u>	-		·
	35	16.BA	208	3	234	ERV-2	DP/A	13,15,17	30	3	3	10	10	3/4"	-	VFD	MC	234	-		Ŀ	•		
Γ	36	1/8147	120	1	234	UH-2	A2/C	65	20	1	2	12	12	34*	-	·	<u> - </u>	·	30	2	DS	EC	234	-
:[37	2.0HP	208	3	901	P-5	B/B	25,27,29	15	3	3	12	12	3/4"	. 0	ÇS	EC	B01		-	-	-	<u> : </u>	
	38	FRAC, HE	120	1	B01	SCLAR PUMP (E)	B/B	43	20	1	2	12	12	3/4*	٠	·	<u> </u>		30	2	DS	EC	B01	·
Γ	39	3/4HP	120	1	108	EF-2	1/A	15	30	1	2	10	10	3/4"	-			-	30	2	DS	EC	107	٠
Γ	49	63,8W	120	1	200	DF-6	A2/C	59	20	1	2	12	12	3/4"	٠.	-		-	30	2	DS	EC	200	9
r	41	FRACHP	120	1	B01	CP-1	B/B	39	20	1	2	12	12	3/4"		-	-	-	30	2	DS	EC .	B01	•
r	42	1/3HP	120	1	B11	SP-1	B/A	11	20	1	2	12	12	3/4"	·		Ŀ	-	30	2	DS	EC	B11	10
r	43	3/4HP	120	1	203	GARBAGE DISPOSAL (E)	2/A	25	25	1	2	12	12	3/4*			-		30	2	DS	EC	215	6
t	44	1/8HP	120	1	808	UH-13	B/B	37	20	1	2	12	12	3/4"	Ŀ	-		-	30	2	DS(3R)	EC.	BOS	-
t	45	1/8HP	120	1	107	UH-9	1/A	17	20	. 1	2	12	12	3/4"	-	-	-	٠.,	30	2	DS	EC	107	-
t	45	86W	120	1	104	DF-1	2/8	19	20	1	2	12	12	3/4"	-	-	-	-	30	2	DS	EC	104	5
t	47	asw	120	1	104	DF-2	26	19	20	1.	2	12	12	3/4"			-		30	2	DS	EC	104	5
t	48	85W	120	1	104	DF-3	28	21	20	1	2	12	12	3/4"	-		-	-	30	2	DS	EC	104	5
t	49	86W	120	1	104	DF-4	2/8	21	20	1	2	12	12	3/4"			-		30	2	DS	EC	104	- 6
H	50	1/8HP	120	1.1	202	UH-41	2/8	1	20	1	2	12	12	34"	-	-	-	-	30	2	DS	EC	202	-
ŀ	51	1/8HP	120	1	201	UH-10	2/8	1	20	1	2	12	12	3/4*		-	<u> </u>	-	30	2	DS	EC	201	
+	51	1/8HP	120	1	_	UH-10			20	1	2	12	12	3/4"	1-			·	30	2	DS	EC	M110	-
H			-	1	. M110	UH-12	2/A	23	20	1	2	12	12	3/4"	-		-		30	2	DS	EC	336	
ŀ	53	1/8HP	120	<u> </u>	335	ACCU-1	3/A 3/A	29,31	25	2	2	12	12	3/4"		.	١.	-	30	2	DS (3R)	EC	ROOF	-
H	54	214	208	1	ROOF	ACCU-1 SP-2	9/B	29,31	20	1	2	12	12	3/4"	١.	-	-		30	2	DS (3R)	EC	808	13
F	56	1/3HP	120	1	B08		B/B		_	1	2	12	12	3/4"	-	<u> </u>	-	H	30	2	DS	EC	B01	6
H	55	FRAC.HP	120	1	B01	WATER HEATER (E)		39	20	1	2	12	-	3/4"		H			30	2	DS	EC	115	Ť.
F	57	FRAC.HP	120	1	115	CUR-4	1/A		20		⊢		12	3/4"	-	\vdash		i -	30	2	DS	EC	101	
F	58	FRAC.HP	120	1	101	CUH-1	1/8	24	20	1	2	12	12	3/4"		·	<u> </u>		30		_		103	Ė
Н	59	FRAC.HP	120	1	103	CUH2	1/8	24	20	1	2	12	12		<u> </u>	<u> </u>	<u> </u>	-		2	DS DS	EC	\vdash	_
Н	60	7,5HP	208	3	202	PLYMOVENT VEF (E)	2/B	3,5,7	50	3	3	8	10	1"	H		-	· .	60	3	DS	EC	202	3
L	61	22.BA	208	3	202	MAU-2	2/8	2,4,6	30	3	3	10	10	3/4"	0	cs	EC	202		-	<u> </u>	<u> </u>	· ·	•
L	B2	240W	120	1	M111	TF-1	2/A	57	20	1	2	12	12	3/4"	-	-	٠	٠	30	2	DS	EC	M111	·
	63	1/5HP	120	-	R00F	EF-3	3/A	56	20	1	2	12	12	3/4"	•	-	· .	-	30	2	DS (3R)	EC	ROOF	٠
ſ	64	2HP	208	3	ROOF	EF-4	36A	17,19,21	15	3	3	12	12	3/4"	m	cs	EC	336	30	3	DS (3R)	EC	RODF	-
Ļ	- 1			_ '								12		3/4"	œ		EC	338	30	3	DS (3R)	EC	ROOF	

- REFER TO PLANS FOR WIRING REQUIREMENTS OF FAN AND ASSOCIATED CONTROL PANEL IN APPARATUS BAY #104. E.C. TO PROVIDE POWER CONNECTIONS AND WIRING TO FAN AND ASSOCIATED SPEED CONTROLLERS.
- PROVIDE A PUSED DISCONNECT FOR ELEVATOR, PROVIDE ALL POMER WIRING FROM PANEL THROUGH DISCONNECT TO ELEVATOR CONTROL MODULE. PROVIDE A BUSSMAN POMER MODULE OR EQUIVALENT, FOR ELEVATOR RECALL.
- 5. REFER TO PLANS FOR WIRING AND INSTALLATION REQUIREMENTS OF FAN, SWITCHES, AND SPEE
- B. EXISTING UNITTO REMAIN, REFEED FROM NEW PANELS/CIRCUITS SHOWN.
 A. PROVIDE WIRING AND CONNECTION(S) TO ANY/ALL ASSOCIATED CONTROLS AND/OR CONTROL PANELS.

- 10 E.C. TO PROVIDE WIRING/CONNECTION TO CONTROL PANEL IN #811 AND TO SUMP PUMP UNIT IN ELEVATOR PIT
- 11. E.C. TO WIRE DISCONNECT AT PAN AND CONTROLLER PROVIDED BY MECHANICAL CONTRACTOR.
- 12 E.C. TO PROVIDE WIRING/CONNECTION AT FAN AND SHALL PROVIDE ANY/ALL LOW VOLTAGE WIRING/CO PROVIDE MANUAL ON-OFF CONTROLLER IN GARAGE.

CEILING MOUNTED SPEAKER COMMUNICATIONS OUTLET ROUGH IF

SYSTEMS:

EX CATY OUTLET

VOLUME CONTROL

- COMMUNICATIONS OUTLET ROUGHIN
 COMMUNICATIONS OUTLET ROUGHIN WAP WIRELESS ACCESS POINT
- D COMMUNICATIONS OUTLET ROUGH IN
- PIRE ALARM MANUAL PULLSTATION MOUNTED AT 44" AFF FIRE ALARM AUDIOMISUAL SIGNALING DEVICE - MOUNT & BELOW CEILING OR AT 6-8" AFF, WHICHEVER IS LOWER
- 30 MZ FIRE ALARM VISUAL CALLY SIGNALING DEVICE MOUNT 6" BELOW CELLING OR AT 6-6" AFF, WHICHEVER IS LOWER RIDICATES CANDELA INTENSITY
- WEATHERPROOF FIRE ALARM AUDIOMISUAL SIGNALING DEVICE
- HEAT DETECTOR RATE OF RISE
- CM FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE MM FIRE ALARM SYSTEM ADDRESSABLE MONTOR MODULE
- OS A FIRE ALARM DUST MOUNTED SMOKE DETECTOR
 DH A FIRE ALARM DOOR HOLD OPEN

 SSS BOOKIC BETTY SIGNAGE
- **→** crock

GENERAL:

ELECTRICAL PANEL

H INDICATES DESIGNATIO ELECTRICAL PANEL

SEE NEW KEYED NOTE SYMBO SEE DEMOLITION KEYED NOTE SYMBOL

EXISTING EXISTING TO BE RELOCATED EXISTING RELOCATED

LIGHTING:

SAFTCHING DEVICE. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH OR OCCUPANCY SENSOR

U = D DOUBLE DUPLEX RECEPTACLE WITH TWO/Q USB PORTS - MOUNTED 20' AFF UNLESS

DUPLEX RECEPTACLE - MOUNTED AT 42' OR 4' MOVE COUNTERTOP OR COUNTER
BACKSPLASH WHERE PRESENT. SEE PLANS FOR EXACT CUTLET TYPE SHADING INDICATES FO U DIPLEX RECEPTACLE WITH TWO (2) USB PORTS - MOUNTED AT 42" OR 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT. SEE PLANS FOR EXACT OUTLET TYPE.

GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE - MOUNTED AT 42" OR 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT. SEE PLANS FOR EXACT OUTLET TYPE.

U = DUPLEX RECEPTACLE WITH TWO (2) USB PORTS - MOUNTED 20" AFF UNLESS NOTED

DOUBLE DUPLEX RECEPTABLE - MOUNTED 20" AFF UNLESS NOTED OTHERWISE

GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE-MOUNTED 20" AFF UNLESS NOTED OTHERWISE

DOUBLE DUPLEX RECEPTACLE - MOUNTED AT 42" OR 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT. SEE PLANS FOR EXACT OUTLET TYPE.

DUPLEX RECEPTAGLE - MOUNTED FLUSH IN CEILING/SOFFIT, UNLESS NOTED

HOTEL OVERHEAD DOOR OPERATOR U DISCONNECT

POWER:

DUPLEX RECEPTACLE

MOTOR CONNECTION

FLOOR MOUNTED ELECTRICAL BOX SEE DRAWINGS FOR TYPES OF OUTLET'S REQUIRED AT EACH BOX. SEE SCHEDULE ON EOO! FOR FLOOR BOX TYPE TO BE PROVIDED.

(F) FLUSHTYPE

○ FREESTANDING FURNITURE CONNECTIONAL

MECHANICAL MOTOR CONTROL SWITCH

SYMBOLS LIST:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE N FROM FINISHED FLOOR TO CENTERLINE OF DEVICE.

CELLING MOUNTED 2X4" FLUX

(CG) CIRCLIT SWITCHED WA OCCUPANCY SENSOR (R) CIRCLIT SWITCHED WA DIWWING PANEL - CIRCUIT SAFTCHLEG NO DESIGNATION INDICATES PORTION OF CIRCUIT SAFTCHED FROM LOCAL SAFTCH OR OCCUPANCY SENSOR

☐ WALL MOUNTED LIGHT FIXTURE

CEILING MOUNTED LIGHT FIXTURE

CEILING MOUNTED LIGHT FIXTURE

CEILING MOUNTED LIGHT FIXTURE . CEILING MOUNTED LIGHT FIXTURE

FLUORESCENT SURFACE MOUNTED LIGHT

LIGHTING FIXTURE - CEILING MOUNTED

H LIGHTING FIXTURE - WALL SURFACE

EXIT LIGHT. SHADING INDICATES FACE OF EXIT

--- IN-WALL TIMER - SENSORSAITCH#PTS60 \$ PILOT LIGHT SWITCH.

49- SINGLE POLE SWITCH - TOGGLE TYPE - MOUNT AT 41" AFF, a UNLESS NOTED OTHERWISE

T . TIME CLOCK

P PHOTOCELL LIGHTING CONTROL OCCUPANCY SENSOR. WALL MOUNTED AT 44"AFF UNLESS NOTED OTHERWISE (SEE SCHEDULE SHEETS FOR TYPE)

(SEE SCHEDULE SHEETS FOR TYPE)

eppstein uhen : architects

3 3 5 Essi Chicago Sirsel Milwaukee, Wisconsin 63202 bi 414 Z71 5350 faz 414 Z717794 222 West Washigton Ave, Suite 650 Madiscon, Wisconsin 53703 bil 608 442 6350 faz 608 442 6880 PERCE ENGINEERS INE

EIDR B

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS C # DATE DESCRIPTION

KEY PLAN

В



SHEET INFORMATION

PROJECT MANAGER

PROJECT NUMBER

DATE

ELECTRICAL SHEET INDEX

E000 SYMBOLS, DETAILS AND SCHEDULES - ELECTRICAL
E001 SCHEDULES - ELECTRICAL
E002 DETAILS - ELECTRICAL
ED100 F8#1 BASEMENT DEMOLITION PLAN - ELECTRICAL

ED100 F5#1 BASEMENT DEMOLITION PLAN - ELECTRICAL
ED101 F5#1 15T FLOOR DEMOLITION PLAN - ELECTRICAL
ED102 F5#1 2ND FLOOR DEMOLITION PLAN - ELECTRICAL
ED103 F5#1 3RD FLOOR DEMOLITION PLAN - ELECTRICAL
E100L F5#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E100P F5#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E101L F5#1 15T FLR AND ADMIN GROUND FLOOR PLAN - POWERSYSTEMS
E101L F5#1 15T FLR AND ADMIN GROUND FLOOR PLAN - POWERSYSTEMS
E102L F5#1 2ND FLR AND ADMIN MEZZ PLAN - LIGHTING
E102D F5#1 2ND FLR AND ADMIN MEZZ PLAN - LIGHTING

E102L FS#1 2ND FLR AND ADMIN MEZZ PLAN - LIGHTING
F102P FS#1 2ND FLR AND ADMIN MEZZ PLAN - POWERGYSTEMS
E103L FIRE STATION #1 3RD FLOOR PLAN - LIGHTING
F103P FIRE STATION #1 3RD FLOOR PLAN - LIGHTING
E103P FIRE STATION #1 3RD FLOOR PLAN - LIGHTING

E104P ADMINISTRATION 2ND FLOOR PLAN - POWER/SYSTEMS

AND SCHEDULES -ELECTRICAL

SYMBOLS, DETAILS

E000

12149

01/09/2015

	G) MOUNTING:	1700	AL 1 8	UB 777	HOLO		INA	IKE	SCHEDULI		LENS/LOUVER:		
R	E - RECESSED	F	L - FLI	JORES	CENT						125" ACRYLIC		
	- SUSPENDED L-CEILING SURFACE			MPACT LOGEN	FLUOR	SCENT					- BLACK BAFFLE - CLEAR ALZAK		
W	L-WALL		N - INC	ANDES	CENT					6	- PARABOLIC .		
U	C-UNDER GAEINET	LE	D - 11G	HT EM	TING D					P	- FRESNEL		
	- POLE			IH PRE TAL HA	SSURE :	OD!UM					TEMPERED GLASS WALL WASHER		
F	R- FLANGED RECESSED	SM	H-SU	PER MI	ETAL HA					P	POLY CARBONATE		
000	O-OTHER (SEE DESCRIPTION)				ARTMET METAL F	AL HALE	Æ			к	K9H12 .125° ACRYLK	2	
	RC N - FLATALUMINUM					AUDE RIPTION					KSH15 . 156" ACRYLIC LOW-IRIDESCENTSP		REALIM.
FS	FLAT STEEL	, x	L - EXT	ENDE	UFE					l N	NONE		
RJ CA	A - REGRESSED ALUMINUM B - REGRESSED STEEL	XII	P - EXI	ENDE	S SPLU	CUIPUT					HIGH (LIPACT DR AC		
R	S - REGRESSED STEEL	TYP	EI RA	LLAST	,		(TYP	FI RA	LLAST;	1 0	OTHER (SEE DESCRI	HON)
FINIS		DIME	07+ LINS	MMC 3	ING BAL		E	- ELE	CTRONG BALLAST				
PAF	- PAINT AFTER FABRICATION - FINISH SELECTION BY ARCHITECT				ING BA	last Ballas			ERGENCY BATTERY/BALLAS TAL DIMMYNG BALLAST	т			
U 37	CONTRACTOR BY ARCHIECT				EL SWIT			- MU	THYOLTAGE ELECTRONIC 1	20/-27TV			
					ORMAN				AST FACTOR				
SPE	LOG NUMBER SHALL NOT BE CONSIDERED	THE CAT	LETE A TALOG	NU MA NUMB!	TEMAL I	HALL NO	THE E	DERE ACT &	D BY MANUFACTURER AND MATERIAL AND ACCESSORIE	CATALOS S TO BE	NUMBER ONLY. THE ORDERED. THE FIRST	MANU	FACTURER LISTED IS THE BASIS
DES	GK.												
REFE	IR TO SPECIFICATION SECTIONS LIGHTING	36 51 00	FOR	, como	NAL INF	DRIVANTIC	N AND F	EOUIF	TEMENTS.				
6111	AMPS FOR THES PROJECT SHALL BE FURN	HEUSEN A	Alb the		n av tu	= = 1 = c =	anat co	ATTD A	CTOO HIM EER WOTED OTHE	Divier			
LUC	RESCENT LAMP CORRELATED COLOR TEM	PERAT	JRE 41	00K. C	DLOR RE	MDERING	INDEX (CRI) A	TOR ABOVE 80, UNLESS NO	TED OT	ERWISE.		
	1	$\overline{}$	Dist	ENGIO	ile.	$\overline{}$	$\overline{}$		LAMPS	Т	BALLAST	_	T
				2010101		⋅	-		LAMES .	⊢-	BALLAS!	1	APPROVED
ITES.	DESCRIPTION	L	Vs.			A MT	TYPE		MODEL.	VOLTS	TYPE	Ln	MANUFACTURER
F1	RECESSED VOLLHETRIC LUMBAIRE.	4	72	7	-	RE	FL	2	32 WATT F32TEXLP	HV	HP: 0.89 BF GE532-WPS-N	0	DAYBRITE ATTUNE
	SYSTEM EFFICIENCY.		-						GE F32 TEXLOP X41/HLEC		057374061-046	ł	
FID	RESERVED TO EL PERSONE MINUS CO.	<u> </u>	+-	-	.	RE	и.	+-	32 WATT	IIV	DiLi16	<u> </u>	DAVEROUS ATT OF
F10	SILBLAR TO FI, PROVIDE WITH 0-10 VOLT 31: DIMMING BALLAST.	4	2	1 *	'	RE	P.L	2	F3278X1,P	"	DIL/10 GE232kIVPS-N-V03	0	DAYBRITE ATTUME
		1		1.					GE F32/TB/XL/XPX41/HLEC				
F1M	SIMILAR TO FI, PROVIDE WITH	F	+-	+	- 1	- I RE	FL	2	32 WATT	MV	HP/HL	-	DAYBRITE ATTUNE
	301/100% STEP-DIM BALLAST.	-	٦	Ι.		""	1 "	1 *	F3218XLP	1	GE232-MVPS-N-630	٦	
	1	1			1		1		GE F32/T8XL/XPX41/HLEC	}		Į	1
F2A	E UNEAR SUSPENDED INDREGTIORECT	8	E.7	5 2	-	SP	FL	4	32 WATT	120V	DITATO	0	AXIS CUBIC WIDE
	PENDANT WITH PMMA 92% TRANSMISSIVE LENS AT BOTTOM	1	}		1				F32T8XLF GE F32TRXXLXPX417HLEG	1	GE422MVPS-N-V03		1
	APERTURE, WHITE FINISH, TWO LAMPS	1			. 1		1		raz isabaranteta	1			
	PER 4" CROSS SECTION, NOMINAL 50%- UP, 40% DOWN DISTRIBUTION, MOUNT		-									ļ	
	BOTTOM OF LUMINAIRE AT 9-0" AFF.		1										*
	SUSPENSION CABLES MUST BE FIELD CUTTABLE TO ACCOUNT FOR BLOPE OF						1					1	
	THE CEILING, PROVIDE WITH 0-10 VOLT	l	1	1	-		1	1	1	1)	
	3% DIGMING BALLAST.						İ			1			
FZAF	SILILAR TO F2A, PROVIDE WITH INTEGRAL BUTTON PHOTOCELL	8	B.76	5= 2	- 1	SP	FL	4	3C WATT	120V	DX1.110	0	REFER TO F2A
	DITEGRAL BUTTON PHOTOCELL			1	- 1				F32TBXLP GE F32/TBXL/XPX41/HLEC		GE432MVPS-N-V03		SENSOR: WATTSTOPPER FD-301
				1				1	GE F32 16X1XFX41FLEC				WATISTOPPER PU-301
F2B	12 LINEAR SUSPENDED INDRECTIORECT PENDANT WITH PIAMA	12	8.7	1		SP	FL	6	32 WATT	1200	DM10 GE43241VPS-N-V03	0	REFER TO F2A
	92% TRANSMISSIVE LENS AT BOTTOM			1	- i		-		FSZTBALP GE FSS/TB/XL/NPX41/HLEC		GE232MVPS-H-V03		
	APERTURE, WHITE FINISH, TWO LAMPS PER 4' CROSS SECTION, NOMINAL 60%		1	1	- 1		1	1		1			1
	UP, 40% DOWN DISTRIBUTION, MOUNT				į		1	1					
	BOTTOM OF LUMINAIRE AT 9-0" AFF. SUSPENSION CABLES MUST BE FIELD	1					-	1					
	CUTTABLE TO ACCOUNT FOR SLOPE OF			Ì				i		1			
	THE CEILING. PROVIDE WITH 0-10 VOLT 3% DIMMING BALLAST.				İ		1	1					
				-	į					1			
F2BF	SIMILAR TO F2B, PROVIDE WITH INTEGRAL BUTTON PHOTOCELL	127	6.73	2	T	SP	FL	6	32 WATT F3278XLP	120V	DIM10 GE432MVP5-N-V05	0	REFER TO F2A SENSOR:
	The street of th		ſ	1			1	1	GE F32/T8/XL/XPX41/HLEC	ĺ	GENERAL PROPERTY OF		WATTSTOPPER FD-301
F3D	RECESSED NARROW APERTURE. 2"	4	-		.	RE	FL	-	32 WATT	HV.	DIME	-	UTHONA SONAT
FSD	LOUVERS ON 3" CENTERS, LOW	•	1 °	, *		n.c	F.	1 -	F32TBXLP	mv	GE232MVPS-N-V03		LEDALITE LYTECEL 6 .
	IRDESCENT SEMI-SPECULAR SILVER. LINEAR LUMINAIRE FOR CONTINUOUS			1			1	1	GE F32/T8/X_/APX41/HLEC				
	ROW MOUNTING: STAGGER LAMPS TO			1		-							
	PILL WIDTH, LAMP SPECIFICATION APPLIES TO 4' LENGTH, PROVIDE												
	27F17T6 AS NEEDED FOR OTHER							1					
	LENGTHS. PROVIDE WITH 0-10 VOLT 3% DIMMING BALLAST,				-					[]			
F4	6" APERTURE DOWNLIGHT, ALUHINUM	91	5.75	7.5	- 6	RE	LED	1	MAX 12 WATIS	120V	LED	C	LIGHTOLIER 5" COREPRO CP530
	SELF TRILLIANS REFLECTOR POWDER			1					MINIMUM 1000 LUMENS				LIGHTOLIER LYTEMING 1004IC
	TRANSMITTANCE LENS: 1-1.2 SPACING RATIO, HOUSING LIUST BE SEPARATE					1			BO+ CFU				
	RATIO, HOUSING LIUST BE SEPARATE FROM LED COMPONENT TO ALLOW FOR				1.		1)	-		
_	FUTURE MAINTENANCE		\perp	\perp		\perp				╙		,	
FE	F APERTURE RECESSED PAR SHALLOW CONE ADJUSTABLE	20.75	13.7	5" 11	- 6	RE	LED	1	17 WATT 17PAR38LED/E28/FL	1200	LED	0	PRESCOLITE ARCHITEKTUR 137
	DOWNLIGHT, SEMI-SPECULAR CLEAR							1	1250 LULIENS				
	ALZAK REFLECTOR					1		1	3000K TCP LED17P38V30KFL				
F6	STEP LIGHT, LONG DISTRIBUTION.	3.5*	2.6	4.6	+	RE/	LED	1	MAXE WATTS	120V	D64110	-	WINONA
	MOUNTS TO STANDARD VERTICAL SINGLE GANS BOY LOUIST IS AFF				1	WL	1	İ	76 LULIEN 2000K				LED-STEP11-RECT-L-30K/HD -DM120V-277V
	MATTE CLEAR BRUSHED ALUMINUM					1			80+ CRI				promision sorry
	FINISH, MATTE BLACK FIBBED RECESS : SURFACE, PROVIDE DIVINING			1		1	1	1			-		
_	CONTROLLER FOR 0-10V DIMMING		1	1		\perp			<u></u>				
F7	IF APERTURE SHOWER DOWNLIGHT, ALUMINUM SELF TRIUMING REFLECTOR.	9"	5.75	7.5	- 5	RE	LED	1	MAX 12 WATTS MINIMUM 1000 LLEVENS	1200	LED	0	LIGHTOLIER & COREPRO CP630 LIGHTOLIER LYTENING 1004IC
	POWDER COAT WHITE FINISH, HISH		1	1	-		1		3000K				DIRUPT CONTRACTOR TOURIS
	TRANSMITTANCE LENS. WET LOCATION LISTED. HOUSING MUST BE		1	1.					50+CRi		.		
	SEPARATE FROM LED COMPONENT TO		1	1.	1						1		
	ALLOW FOR FUTURE MAINTENANCE.		1	1	1		1						1.0
F8	UNDERCABINET LUMBIAIRE WITH	40*	2.5	1.7	÷	-	LED		MAX 16 WATTS	1200	LED	0	COLOR KINETICS
	INTEGRAL POWER SUPPLY, SWITCH AND OCCUPANCY SENSOS WHITE	-	1	1 "	1	1	1	1	MIN 755 LUMENS	",]		-	EW PROFILE MX POWERCORE
	FINISH, REVIEW WITH MILLWORK SHOP			1	ĺ	1	1		4000K	. 1			
	DRAWINGS PRIOR TO ORDERING.			1	1.		1		"	.			
		49,61	4.2*	5"	-	WL	i FL		32 WATT	MV	HP/ 0.89 BF	-	LITHONIA NARROW BAND VANIT
FP	UTILITY VANITY WALL BRACKET BESSES		1.4	"	-	1	1	ı î	F32T8)1P		GE232-MVPS-N	٠,	
F9	UTILITY VANITY WALL BRACKET, REFER TO A RO-ITECTURAL ELEVATION FOR			1	1	1	1		GE F32/TB/XL/XPX41/HLEC				
F9	UTILITY VANITY WALL BRACKET, REFER TO ARCHITECTURAL ELEVATION FOR LIQUITING HEIGHT.			1					32 WATT	ыv	HP: 1,05 BF		
	TO ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHT. RECESSED VOLKEETRIC LULINAIRE.	-	1,	5	+-	FLE	Fi					0	DAYBRITE ATTUNE
	TO ARCHITECTURAL ELEVATION FOR MICHINISHEIGHT. RECESSED VOLUMETRIC LUMINAIRE. MINISTUM 100 LUMENS PER WATT	*	T'	6	+	FEE	F1	,	FECTENLP	J	GE232-41VPS-N	0	DAYBRITE ATTUNE
F1C	TO A RO-ITECTURAL ELEVATION FOR MIDDINTING HEIGHT. RECESSED VOLUMETRIC LULINAIRE. MINISTUM 100 LUXENS PER WATT SYSTEM EFFICIENCY.	r			1		F1	ľ	F3218XLP GE F32/18/XE/XPX41/HLEC	ł	GE232-AIVPS-N		
F1C	TO ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHT. RECESSED VOLTRIETRIC LUMINAIRE. MINIMUM TOOLURENS PER WATT SYSTEM EFFICIENCY. LINEAR WALL WASH, 6,6" APERTURE	- 4	1°	4.5	1	RE	F1.	1	FECTENLP GE FECTEUX/XPX41/HLEC	iav	GE232-41VPS-N HF: 0.89 BF		DAYBRITE ATTUNE
F8 F1C	TO ARCHTECTURAL ELEVATION FOR INDUSTRIES HEIGHT. RECESSED VOLLRETRIC LIJINAIRE, IMMIRIM 100 LIRENS PER WATT SVETEM EFFICIENCY. LINEAR WALL WASH, 6.0" AFERTURE SPECIJAR PARABOLIC REFLECTOR T. BRY CUIP ON NE SIZE AND DRYWALL							1	F3218XLP GE F32/18/XE/XPX41/HLEC	iëv	GE232-AIVPS-N		
F1C	TO ARCHTECTURAL ELEVATION FOR HIGHTING HEIGHT. RECESSED VOLLAGITHE LLUNAIRE. MINISTUM 100 LURZENS PER WATT SYSTEM EPPCHACY. UNEAR WALL WASH, 6.6" APERTURE SPECULAR PARABOLIC REFLECTOR T- BAY CLUP ON ONE SIDE AND DRYWALL LUP ON THE OTHER SIDE. REFERE TO							1	FECTENLIP GE FECTEUX-UXPX41/HLEC 32 WATT FECTEULP	ŔłV	GE232-41VPS-N HF: 0.89 BF		
F1C	TO ARCHITECTURAL ELEVATION FOR INDUNTING HEIGHT CLAIMAIRE, MANURAL TO LIAISTRIC LIAINAIRE, MANURAL TO LIAISTRIC LIAINAIRE, MANURAL TO LIAISTRIC LIAINAIRE, MANURAL TO LIAISTRIC REPORT OF THE CALL OF							1	FECTENLIP GE FECTEUX-UXPX41/HLEC 32 WATT FECTEULP	iav	GE232-41VPS-N HF: 0.89 BF		
F1C	TO ARCHTECTURAL ELEVATION FOR HIGHTING HEIGHT. RECESSED VOLLAGITHE LLUNAIRE. MINISTUM 100 LURZENS PER WATT SYSTEM EPPCHACY. UNEAR WALL WASH, 6.6" APERTURE SPECULAR PARABOLIC REFLECTOR T- BAY CLUP ON ONE SIDE AND DRYWALL LUP ON THE OTHER SIDE. REFERE TO							1	FECTENLIP GE FECTEUX-UXPX41/HLEC 32 WATT FECTEULP	RV	GE232-41VPS-N HF: 0.89 BF		

E

С

						IVII	NAI	KE	SCHEDULE				
) MOUNTING;			TECHN		_					LENS/LOUVER:		
RE	- RECESSED			RESCEN							-125" ACRYLIC		
	- SUSPENDED			PACTELL	JORESC	ENT					BLACK BAFFLE		
	- CEILING SURFACE		• HALO								CLEAR ALZAK		
	- WALL			NDESCEI							FARABOLIC		
uc	- UNDER CABINET	LED	- LIGHT	EMITTIN	KS DYODS					F-	FRESNEL		
cv	- COVE	HS	- HIGH	PRESSU	RE SOD	LKD				G	TEMPERED GLASS		
	- PCLE	MH	- META	L HALLDE	₹						WALL WASHER		
	- FLANGED RECESSED			RMETAL							POLY CARBONATE		
	- OTHER (SEE DESCRIPTION)			E START							KSH12.12E ACRYLK		
											KSH12 .15E ACRYLIC		
DOOR	:	CAM	- CERA	MIC MET	AL MALI	DE							
	- FLAT ALUMINUM		- OTHE	r (see c	JESCKIP	HON					LOW INDESCENT SP	ECOLA	KALUK.
	- FLAT STEEL			NDED UP							HONE		
	- REGRESSED ALLMINUM	XLF	- EXTEN	NDED LIP	E & OUT	PUT					HIGH IMPACTOR ACI		
RS	- REGRESSED STEEL									0	OTHER (SEE DESCRI	PTION)	
			BALL				(TYPE)						
FINIS	t:	D02/07	- LINE C	DEMANDS	BALLAS	т	. EB-	ELEC	TRONG BALLAST				
	- PAINT AFTER FABRICATION			DEMARKS					RGENCY BATTERY/BALLAS	г			
CSA	FINISH SELECTION BY ARCHITECT			LOW LE					ALDIMÁNING BALLAST				
		ML	- tale Ti	HEVEL S	SWITCHI	N/3	MV-	MULT	-VOLTAGE ELECTRONIC 12	0V-277V			
				PERFOR					ASTFACTOR				
SPECI DESIG	OG NUMBER SHALL, NOT BE CONSIDERED FICATION SHALL BE COORDINATED WITH T IN. R TO SPECIFICATION SECTIONS LIGHTING S MAPS FOR THIS PROJECT SHALL BE FURNI	THE CATA	LOG NU	OMONAL	O DETE	MATION	THE EXA	CTMA	TERIAL AND ACCESSORIES	TOBE	POERED, THE FIRST	MANU	ACTURER USTED IS THE B
ELLIOF	ESCENT LAMP CORRELATED COLOR TEM	PERATUR	RE 4100	K. COLO	R REND	ERING	INDEX (C	RDAT	OR ABOVE & UNLESS NO	ED OTH	ERWISE.		T
		<u></u>	MARK	Tajuns		-			LAMES	_	BALLASI	4	APPROVED
ITEM	DESCRIPTION	l ı	w	н	DIA	MTG	TYPE	OTY	MODEL	VOLTS	TYPE	La	MANUFACTURE
F12D	EXTRUDED ALUMINUM LINEAR WALL		+ 17	+ =-	1 DIR	WL	FL	2	32 WATT	MV	HP/ 0.59 BF	12	AXIS CUBIC NARROW
1.2	MOUNT, INDIRECT/DIRECT/WITH PAMA	١ .	} •	1 -	1	***	1 ~] "	F32TextP		GE332-AVPS-N	ľ	CUBW-VL-8-T8-1-0-0-D-DS
	SZW. TRANSANSSI/IC LENS A 7 BOTTOM APERTURE, WHITE FINISH, ONE LAMP PER A" CROSS SECTION, NOMINAL 60% UP, 40% DOWN DISTRIBUTION, SHOWN MA" INCREMENTS FOR CLARITY; PROVIDE BU CONTINUOUS RUN, PROVIDE DUST SHELD, INTEGRAL, SELTTOM PROVINCE!								GE F22/TBV)2/VPX41MLEC				
F13	T APERTURE, RECESSED SHALLOW HOUSING ADJUSTABLE DOWNLIGHT. GLASS LENS. MATTE NICKEL TRAILING REFLECTOR WETLARS.	10.5	7.76	3.5*		RE	LED	1	10 WATT MR16 LED 3000K 36-DEG BEAM 420 DITTAL LUMENS MBI. SORAA VIVID2	120V	EB	0	DASAL 2020F AQUATR
F14	NOT USED				-	<u> </u>		_	MR16-50-801-12-930-35-2			⊢	-
F15	LATTICS LED MATRIX, 1,97° LED-TO-LED.			-	-	0	LED	_	3.6 WATESO FT	120:24V	LED	N	BITRO LATEOS-75
	3" SAR-YO-BAR, FLEXISLE WITH CONFORMAL COAT, IPSS, CUT INCREMENT EVERY 6 LAMPS, MINIMUM 4" "ROM LATTICE PRODUCT TO								SPIGLE SIDED LED 550DK 480 LUMENSISO FT				
	INTERIOR FACE OF PANEL TO BE BACKLIT, PROVIDE LEO DRIVERS, CONNECTORS AND MOUNTING ACCESSORIES, CONCEAL DRIVER WITHIN CABINET IN ACCESSIBLE LOCATION. COORDINATE SIZE WITH MDF LOCATION. COORDINATE SIZE WITH MDF LOCATION.												1
			-	12"	6	SP	LED	1	17 WATT	120V	LED	C	PRESCOUTE LITEFORMS
F16	6" DIA. CYLINDER PENDANT MOUNT.					1	INCAN	I	17PAR38LED:E28FL			1	1125-976
F16	EXTRUDED ALUMNUM CYLINDER, WHITE		1	i									
F16	EXTRUDED ALUMINUM CYLINDER, WHITE POWDER COAT PAINT, HANG-STRAIGHT		Ι.		1.	ļ	1.	Į	1250 LUMENS			J	
F16	EXTRUDED ALUMINUM CYLINDER, WHITE POWDER COAT PAINT, HANG-STRAIGHT CANDRY, FIELD-CUTTABLE STEMS								300000			1	1
F16	EXTRUDED ALUMINUM CYLINDER, WHITE POWDER COAT PAINT, HANG-STRAIGHT CANOPY, FIELD-CUTTABLE STEMB, PENDANT SUSPENSION +13-0" AFF TD								1250 LUMENS 3000K 1CP LED17P38Y30KFL				
	EXTRUDED ALUMINUM CYLINDER. WHITE POWDER COAT PAINT. HANG-STRAIGHT CANOPY. FIELD-CUTTABLE STEMS. PENDANT SUSPENSION +13-0" AFF TO BOTTOM OF FIXTURE ALONG NORTH								300000				
	EXTRUDED ALUMINUM CYLINDER, WHITE POWDER COAT PAINT, HANG-STRAIGHT CANOPY, FIELD-CUTTABLE STEMS. PENDANT SUSPENSION +13-0" AFF TO BOTTOM OF FIXTURE ALONG NORTH								300000				
	EXTRUDED ALUAUNUM CYLINDER, WHITE POWDER COAT PARTH, HANS-STRAIGHT CANOPY, FIELD-CUTTABLE STEMS, PENDANT SUSPENSION 413-0" AFF TD BOTTOM OF FIXTURE ALONG NORTH STAR ELEVATION, **P**O** AFF AT SOUTH START ELEVATION, **P**O** AFF AT SOUTH START ELEVATION, **REABEL SOCKETS**								300000				
	EXTRUDED ALLIANUAL CYLINDER, WHITE POWDER COAT PAINT, HANS-STRAIGHT CANDRY, FIELD-CUTTABLE STEMB, PENDANT SUSPENSION 13-0" AFF TO BOTTOM OF RYTHER ALLOW MORTH STAIR ELEVATION, 47-0" AFF AT SOUTH STAIR ELEVATION, RELABEL SOCKETS 224/ATTIANAMUM,	2.74*	3,82	7.6"		WL	LEC	2	300000	1207	LED	0	Eureka lighting scoop
	EXTRUDED ALLININAM CYLINDER, WHITE PROVIDER COAT PAINT, HANS STRAIGHT CANDRY, FIELD-CUTTABLE STEMB. PERIDANT SUSPENSION 1432-A AFF TO BOTTOM OF RITURE ALLONG NIGHTH STAR ELEVATION, PECABEL SOCKETS 299ATT HANGHINE THE SLE KERPEN ARGORITHS CANDRIAN WAS ARROWNED AND A STAR ELEVATION. RELABEL SOCKETS 299ATT HANGHINE SLE KERPEN ARGORITECTURED AND A STAR ELEVATION. PECABEL SOCKETS 2004ATT HANGHINE SLE KERPEN ARGORITECTURED AND A STAR STAR STAR STAR STAR STAR STAR ST	2.74	5.85	14'		WL	LEO	2	2000K TCP LED17P38Y30KFL 13.5 WATT 13.5 WATT 13.5 ANS LED' E26 BASE	1207	LEO	0	EUREKA UGHTING SCOOP
	EXTRUDED ALLININAS O'LINDER, WHITE POWDER COAT PARIT, HANS, STATIGHT CANDRY, FIELD-CUTTABLE STEMB. PERDART SUSPENSION 1432-A AFT TO BOTTOM OF EXTURE ALONG NORTH STAR ELEVATION, FELDAL SOCKETS STAR ELEVATION, FOR AFT A BOUTH AND AND A STATE SUSPENSION A	2.74	5.85	74'		WL	LEO	2	2000K TCP LED17P38V30KFL 13.5 WATT 13.5 WATT 13.6 A19 LED' E26 BASE 2709K	120V	LED .	0	BUREKA LIGHTING SCOOP
F ₁₇	EZRIGUED ALLIANUM CYLIADER WHITE POWOER COAT PAINT, HANG STRAIGHT CANDY, FRILL-OUTTABLE STEMS, PERIDANT SUSPENSION 4132-AFF TO BOTTON OF FRITTIER ALCONG NOTH STARE ELEVATION, FOR AFF TO STARE ELEVATION, RELABEL SOCKETS 299ANTI MACHINET SLIK SCREEN GLASS OFFUSER, ALLIANUM HOLSING, SATTO CHROMET FINA.	2.74*						2	3000K TCP LED17P38V30KFL 13.5 WATT 13.5 WATT 13.5 IVET 15.00 LEMEN				
F ₁₇	EXTRUDED ALLININAS O'LINDER, WHITE POWDER COAT PARIT, HANS, STATIGHT CANDRY, FIELD-CUTTABLE STEMB. PERDART SUSPENSION 1432-A AFT TO BOTTOM OF EXTURE ALONG NORTH STAR ELEVATION, FELDAL SOCKETS STAR ELEVATION, FOR AFT A BOUTH AND AND A STATE SUSPENSION A	2.74*	5.85	74'		WL RE	LEC FL	2	1000K TCP LED17P3BY30KFL 13.5 WATT 13.5A19 LEDF E26 BASE 2700K 1100 LLMEN 22 WATT	120V	HP/ 0,89 BF		EUREKA LIGHTING SCOOP
F ₁₇	EZRIGUED ALLIANUM CYLIADER WHITE POWOER COAT PAINT, HANG STRAIGHT CANDY, FRILL-OUTTABLE STEMS, PERIDANT SUSPENSION 4132-AFF TO BOTTON OF FRITTIER ALCONG NOTH STARE ELEVATION, FOR AFF TO STARE ELEVATION, RELABEL SOCKETS 299ANTI MACHINET SLIK SCREEN GLASS OFFUSER, ALLIANUM HOLSING, SATTO CHROMET FINA.	2.74*						2	13.5 WATT 13.5 WATT 13.5 WATT 15.5A19 LED E26 BASE 2700K 120 WATT 120 LUMEN 120 WATT 120 TOTAL				
F ₁₇	EZRIGUED ALLIANUM CYLIADER WHITE POWOER COAT PAINT, HANG STRAIGHT CANDY, FRILL-OUTTABLE STEMS, PERIDANT SUSPENSION 4132-AFF TO BOTTON OF FRITTIER ALCONG NOTH STARE ELEVATION, FOR AFF TO STARE ELEVATION, RELABEL SOCKETS 299ANTI MACHINET SLIK SCREEN GLASS OFFUSER, ALLIANUM HOLSING, SATTO CHROMET FINA.	2.76*						2	1000K TCP LED17P3BY30KFL 13.5 WATT 13.5A19 LEDF E26 BASE 2700K 1100 LLMEN 22 WATT		HP/ 0,89 BF		
F17	EXTRUGED ALLIMINAL CYLINDER WHITE PROVIDER CONT PAINT, HANGS STRAIGHT CAMOPY, FEILD-CUTTABLE STRAIG. PROBLANT SUBSESSION 4152-4 AFF TO BOTTOM OF NATURE ALLONG NOTHING STRAIGHT STRAIGH	4	2	5		RE	FL	2	13.5 WATT 13.5 WATT 13.5 ILD E20 E26 BASE 2700K 1100 LLMBEN 32 WATT F2278XLP GE F32719/JL/P/M1/HLEC	MV	HP/ 0.89 BF GE232-4/VPS-N		DAYBRITE TGS
F17	EZRIGUED ALLIANUM CYLIADER WHITE POWOER COAT PAINT, HANG STRAIGHT CANDY, FRILL-OUTTABLE STEMS, PERIDANT SUSPENSION 4132-AFF TO BOTTON OF FRITTIER ALCONG NOTH STARE ELEVATION, FOR AFF TO STARE ELEVATION, RELABEL SOCKETS 299ANTI MACHINET SLIK SCREEN GLASS OFFUSER, ALLIANUM HOLSING, SATTO CHROMET FINA.	2.74						2	13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE		HP/ 0.85 BF GE232-HV PS-N HP/ 0.89 BF		
F17	EXTRUGED ALLIMINAL CYLINDER WHITE PROVIDER CONT PAINT, HANGS STRAIGHT CAMOPY, FEILD-CUTTABLE STRAIG. PROBLANT SUBSESSION 4152-4 AFF TO BOTTOM OF NATURE ALLONG NOTHING STRAIGHT STRAIGH	4	2	5		RE	FL	2	125 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 25 WATT 26 P32TB3/J./PW164LEC 13.5 WATT 25 WATT 25 WATT	MV	HP/ 0.89 BF GE232-4/VPS-N		DAYBRITE TGS
F17	EXTRUGED ALLIMINAL CYLINDER WHITE PROVIDER CONT PAINT, HANGS STRAIGHT CAMOPY, FEILD-CUTTABLE STRAIG. PROBLANT SUBSESSION 4152-4 AFF TO BOTTOM OF NATURE ALLONG NOTHING STRAIGHT STRAIGH	4	2	5		RE	FL	2	13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE 13.6.WATE	MV	HP/ 0.85 BF GE232-HV PS-N HP/ 0.89 BF		DAYBRITE TGS
F17	EXTRUDED ALLINNUM CYLADER WHITE ONDER COAT PAINT, MANG STRAIGHT CANDY, FRILL-CUTTABLE STRAIG. DE STORM OF REVIEW ALLOWED STAR ELEVATION, FOR AFA TS GOUTH STAR ELEVATION, FEAR ALLOW GOVERN STAR ELEVATION, FEAR ALLOW COMPLAINT, WHITE SLAK SCREEN LOSS OFFUSER, ALLIANAM HOUSING, SATE OFFORE THEM. CAN LENSED TROFFER TIM LENSED TROFFER TIM LENSED TROFFER	4	1"	5"		RE	FL FL	2	1000K TOP LED 179738Y30KFL 13.5 WATT 13.5 A15 LED EX BASE 2700K 1100 LLMEN 32 WATT FATTRLP GE F327T87JJ/PX116/LEC 33 WATT G2TRLP GE F327T87JJ/PX116/LEC G2TRLP GE F327T87JJ/PX116/LEC	HV	HP/ 0.89 BF GE232-HVPS-N HP/ 0.89 BF GE232-MVPS-N	A	DAYBRITE TGS
F17	EXTRUGED ALLIMINAL CYLINDER WHITE PROVIDER CONT PAINT, HANGS STRAIGHT CAMOPY, FEILD-CUTTABLE STRAIG. PROBLANT SUBSESSION 4152-4 AFF TO BOTTOM OF NATURE ALLONG NOTHING STRAIGHT STRAIGH	4	2	5		RE	FL	2	13.5 WATT 13.5 WATT 13.5 WATT 13.5 MY LED ESS BASE 2700X 100 LEASEN 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 25.2	MV	HP/ 0.89 BF GE332-MVPS-N HP/ 0.89 BF GE332-MVPS-N		DAYBRITE TGS
F17	EXTRUDED ALLINNUM CYLADER WHITE ONDER COAT PAINT, MANG STRAIGHT CANDY, FRILL-CUTTABLE STRAIG. DE STORM OF REVIEW ALLOWED STAR ELEVATION, FOR AFA TS GOUTH STAR ELEVATION, FEAR ALLOW GOVERN STAR ELEVATION, FEAR ALLOW COMPLAINT, WHITE SLAK SCREEN LOSS OFFUSER, ALLIANAM HOUSING, SATE OFFORE THEM. CAN LENSED TROFFER TIM LENSED TROFFER TIM LENSED TROFFER	4	1"	5"		RE	FL FL	2	13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 13.5.WATT 25.WATT 25.WATT 25.WATT 25.WATT 25.WATT 25.WATT 25.WATT 25.WATT 25.WATT	HV	HP/ 0.89 BF GE232-HVPS-N HP/ 0.89 BF GE232-MVPS-N	A	DAYBRITE TGS DAYBRITE TGS
F17	EXTRUDED ALLINNUM CYLADER WHITE ONDER COAT PAINT, MANG STRAIGHT CANDY, FRILL-CUTTABLE STRAIG. DE STORM OF REVIEW ALLOWED STAR ELEVATION, FOR AFA TS GOUTH STAR ELEVATION, FEAR ALLOW GOVERN STAR ELEVATION, FEAR ALLOW COMPLAINT, WHITE SLAK SCREEN LOSS OFFUSER, ALLIANAM HOUSING, SATE OFFORE THEM. CAN LENSED TROFFER TIM LENSED TROFFER TIM LENSED TROFFER	4	1"	5"		RE	FL FL	2	13.5 WATT 13.5 WATT 13.5 WATT 13.5 MY LED ESS BASE 2700X 100 LEASEN 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 24.2 MY LED ESS BASE 25.2	HV	HP/ 0.89 BF GE332-MVPS-N HP/ 0.89 BF GE332-MVPS-N	A	DAYBRITE TGS DAYBRITE TGS
F17 F25 F26	EXTRUGED ALLINNUM CYLADER WHITE PROVIDER CONT PAINT, MANOS TRAIGHT CANOPY, PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE ALLOWS MORTH BIASE ELEVATION. PRILADE SOCIETY SHAPE THE ALLOWS AND PRILADED TO THE PRILADED THE PRI	4	1' 12"	5		RE RE	FL FL	2	13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.6 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 52 WATT 62 F32 W	MV MV	HP/ 0.89 BF GE332-MVPS-N HP/ 0.89 BF GE332-MVPS-N HP/ 0.85 BF GE332-MVPS-N	Á	DAYBRITE TOS DAYBRITE TOS DAYBRITE UCCC
F17 F25 F26	EXTRUDED ALLINNUM CYLADER WHITE ONDER COAT PAINT, MANG STRAIGHT CANDY, FRILL-CUTTABLE STRAIG. DE STORM OF REVIEW ALLOWED STAR ELEVATION, FOR AFA TS GOUTH STAR ELEVATION, FEAR ALLOW GOVERN STAR ELEVATION, FEAR ALLOW COMPLAINT, WHITE SLAK SCREEN LOSS OFFUSER, ALLIANAM HOUSING, SATE OFFORE THEM. CAN LENSED TROFFER TIM LENSED TROFFER TIM LENSED TROFFER	4	1"	5"		RE	FL FL	2	13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT	HV	HP/ 0.89 BF GE3324MVPS-N HP/ 0.89 BF GE3324MVPS-N HP/ 0.85 BF GE3324MVPS-N HP/ 0.85 BF	Á	DAYBRITE TGS DAYBRITE TGS
F17 F25 F26	EXTRUGED ALLINNUM CYLADER WHITE PROVIDER CONT PAINT, MANOS TRAIGHT CANOPY, PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE ALLOWS MORTH BIASE ELEVATION. PRILADE SOCIETY SHAPE THE ALLOWS AND PRILADED TO THE PRILADED THE PRI	4	1' 12"	5		RE RE	FL FL	2	DOOK THE LED TPP BY SOME 13.5 MATT 13.5 M LED ES BASE TOOK TOO	MV MV	HP/ 0.89 BF GE332-MVPS-N HP/ 0.89 BF GE332-MVPS-N HP/ 0.85 BF GE332-MVPS-N	Á	DAYBRITE TOS DAYBRITE TOS DAYBRITE UCCC
F17 F25 F26	EXTRUGED ALLINNUM CYLADER WHITE PROVIDER CONT PAINT, MANOS TRAIGHT CANOPY, PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE ALLOWS MORTH BIASE ELEVATION. PRILADE SOCIETY SHAPE THE ALLOWS AND PRILADED TO THE PRILADED THE PRI	4	1' 12"	5		RE RE	FL FL	2	13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT 15.5 WATT	MV MV	HP/ 0.89 BF GE3324MVPS-N HP/ 0.89 BF GE3324MVPS-N HP/ 0.85 BF GE3324MVPS-N HP/ 0.85 BF	Á	DAYBRITE TOS DAYBRITE TOS DAYBRITE UCCC
F25 F26 F26	EXTRUDED ALLININAL SYLADER WHITE OPPOSED COAT PAINT, MAINS STRAIGHT CANNOT STRAIGHT AND STRAIGHT CANNOT SELECTION OF THE STRAIGHT STATE LAND AND STATE ELEVATION, FOR AT AT SOUTH STATE ELEVATION, FOR AT AT SOUTH STATE ELEVATION, FOR A SOUTH STATE ELEVATION, FOR A SOUTH STATE ELEVATION, FOR A SOUTH STATE ELEVATION, FOR A SOUTH SELECTION SELECTION OF THE SELECTION	4	12	5"		RE CL	FL FL	2	DOOK UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLE UP LEDTPRININGLY U	MV 120	HP/ 0.85 BF GE3224/VPS-N HP/ 0.85 BP GE3224/VPS-N HP/ 0.85 BP GE3224/VPS-N HP/ 0.85 BF GE3224/VPS-N	A A	DAYBRITE TOS DAYBRITE TOS DAYBRITE UCSC DAYBRITE UCSC DAYBRITE DWARCOZ
F25 F26 F26	EXTRUGED ALLINNUM CYLADER WHITE PROVIDER CONT PAINT, MANOS TRAIGHT CANOPY, PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE-DUTTABLE STRING. RECORD TO THE PRILE ALLOWS MORTH BIASE ELEVATION. PRILADE SOCIETY SHAPE THE ALLOWS AND PRILADED TO THE PRILADED THE PRI	4	1' 12"	5		RE RE	FL FL	2	13.5 WATT 13.5 WATT 13.5 WATT 13.5 WATT 13.6 WATT 13.6 WATT 13.6 WATT 13.6 WATT 15.6 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 15.7 WATT 16.7 W	MV MV	19/ 0.89 BF GE232-41/YS-N H9/ 0.89 BF GE232-41/YS-N H9/ 0.85 BF GE232-41/YS-N H9/ 0.89 BF GE232-41/YS-N	A A	DAYBRITE TOS DAYBRITE TOS DAYBRITE UCCC
F25 F26 F26	EXTRUDED ALLININAL SYLADER WHITE OPPOSED COAT PAINT, MAINS STRAIGHT CANNOT STRAIGHT AND STRAIGHT CANNOT SELECTION OF THE STRAIGHT STATE LAND AND STATE ELEVATION, FOR AT AT SOUTH STATE ELEVATION, FOR AT AT SOUTH STATE ELEVATION, FOR A SOUTH STATE ELEVATION, FOR A SOUTH STATE ELEVATION, FOR A SOUTH STATE ELEVATION, FOR A SOUTH SELECTION SELECTION OF THE SELECTION	4	12	5"		RE CL	FL FL	2	DOOK UP LED PREVIOUS LED EX BASE TOOK LED EX BASE TO THE BASE TOOK LED EX BASE TO THE BASE TOOK LED EX BASE TO THE BASE TOOK LED EX BASE TO THE BASE TOOK LED EX BASE TO THE BASE TO	MV 120	HP/ 0.85 BF GE3224/VPS-N HP/ 0.85 BP GE3224/VPS-N HP/ 0.85 BP GE3224/VPS-N HP/ 0.85 BF GE3224/VPS-N	A A	DAYBRITE TOS DAYBRITE TOS DAYBRITE UCSC DAYBRITE UCSC DAYBRITE DWARCOZ
F17 F25 F26 F29	EXTRUDED ALLINNAM CYLOPER WHITE POWERS COAT PAINT, NAMES STRAIGHT POWERS COAT PAINT, NAMES STRAIGHT POWERS COAT PAINT, NAMES STRAIGHT STAND LE WATER BOTTON OF RETURN ALLONG MONTH STAND LE WATER STAND LE WATER STAND LE WATER STAND LE WATER MANUAL THE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL COMPLANT, WHITE SALE SCHOOL COMPLANT, WHITE SALE SCHOOL COMPLANT, WHITE COMPLANT	£	12	6°		RE DL WL	FL FL	2 2 2	DOOK TO LED TO PROPRIED TO LED TO PROPRIED TO LED T	HV 120	16/ 0.85 BF GE222-41/YS-N 16/ 0.85 BF GE222-41/YS-N 16/ 0.85 BF GE222-41/YS-N 16/ 0.85 BF GE222-41/YS-N	A A R	DAYBRITE 108 DAYBRITE 108 DAYBRITE 0.22 DAYBRITE DIVARED2 DAYBRITE DIVARED2 DAYBRITE 1232
F25 F26 F29 X	EXTRUDED ALLINING CYLOPER WHITE EXPONENCE COR I PAINT, MANG STRAIGHT CAMONY, PRILE-CUTTABLE STRAIG. EXPONENCE CORP. EXPONENCE ALLONG LOCKE EXPONENCE ALLONG LOCKE EXPONENCE ALLONG COMPLANT, WHITE SELK SCREEN CASE OFFUSER, ALLINING HOUSING SATHO CHROSE THE LEVEL OF TROPFER LIMING TROPFER EXPONENCE TROPFER EXPLORED TROPFER	4 4 4	12 12 12 2	5° 5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°		RE CL CL C	FL FL FL	2	DOOK UP LED TP289306/L UP LED TP289306/L UP LED TP289306/L UP LED ES BASE 200K LED ES BASE	HV 120 120 120	HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF	A A A A A A A A A A A A A A A A A A A	DAYBRITE TOS DAYBRITE TOS DAYBRITE U.S.S. DAYBRITE U.S.S. DAYBRITE U.S.S. DAYBRITE U.S.S. UIDHINIA (COS-5-7-5-120)
F17 F25 F26 F29	EXTRUDED ALLINNAM CYLOPER WHITE POWERS COAT PAINT, NAMES STRAIGHT POWERS COAT PAINT, NAMES STRAIGHT POWERS COAT PAINT, NAMES STRAIGHT STAND LE WATER BOTTON OF RETURN ALLONG MONTH STAND LE WATER STAND LE WATER STAND LE WATER STAND LE WATER MANUAL THE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL AND COMPLANT, WHITE SALE SCHOOL COMPLANT, WHITE SALE SCHOOL COMPLANT, WHITE SALE SCHOOL COMPLANT, WHITE COMPLANT	£	12	6°		RE DL WL	FL FL	2 2 2	DOOK TO LED TO PROPRIED TO LED TO PROPRIED TO LED T	HV 120	16/ 0.85 BF GE222-41/YS-N 16/ 0.85 BF GE222-41/YS-N 16/ 0.85 BF GE222-41/YS-N 16/ 0.85 BF GE222-41/YS-N	A A N N R	DAYBRITE TOS DAYBRITE TOS DAYBRITE ULCIC DAYBRITE ULCIC DAYBRITE ULCIC DAYBRITE ULCIC DAYBRITE ULCIC DAYBRITE ULCIC DEPORA IN GORA S.J.F. LOC
F25 F26 F26 F27 CA	EXTRUDED ALLINING CYLOPER WHITE EXPONENCE COR I PAINT, MANG STRAIGHT CAMONY, PRILE-CUTTABLE STRAIG. EXPONENCE CORP. EXPONENCE ALLONG LOCKE EXPONENCE ALLONG LOCKE EXPONENCE ALLONG COMPLANT, WHITE SELK SCREEN CASE OFFUSER, ALLINING HOUSING SATHO CHROSE THE LEVEL OF TROPFER LIMING TROPFER EXPONENCE TROPFER EXPLORED TROPFER	4 4 4	12 12 12 2	5° 5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°		RE CL CL C	FL FL FL	2 2 1 1 1 1	DOOK UP LED TP289306/L UP LED TP289306/L UP LED TP289306/L UP LED ES BASE 200K LED ES BASE	HV 120 120 120	HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF GE322-HVPS-N HP/ 0.85 BF	A A N N R	DAYBRITE TOS DAYBRITE TOS DAYBRITE ULES DAYBRITE ULES DAYBRITE ULES UTHORNA ELORA-S-R-1-200

		DCCUPANC	Y SENSOR S	CHEDULE	
TYPE	MANUFACTURER	CATALOG NUMBER	TECHNOLOGY	MOUNTING	MINIMUM COVERAGE ARE
A	SENSOR SWITCH	CMR-PDT-9-P	DUAL TECHNOLOGY	CEIUNG	200SF
В	SENSOR SWITCH	CMR-PDT-10-P	DUALTECHNOLOGY	CEIUNG	800SF
С	CRESTRON	GLS-ODT-C-CN	DUAL TECHNOLOGY	CEIUNG	2000SF
D	SENSOR SWITCH	CMR-6-P	PASSIVE INFRARED	HIGH-BAY CELLING	1000SF
E	SENSOR SWITCH	WSX-PDT	DUAL TECHNOLOGY	WALL	625SF

PROVIDE A MINIMUM OF 4'-0" OF FLEX CONDUIT/WIRING SO THAT THE SENSOR CAN BE FIELD ADJUSTED FOR PROPER COVERAGE DURING FINAL TESTING.

	PANEI	SCF	IED	ULE	=			UBS	ACH	¥	₹	EACH	1
	ABBREVIATIONS: F = FLUSH S = SURFACE	CB= 1	= MAI					NUMBER OF TUBS	CIRCUITS EACH	IZ CIRCLITS EACH	CIRCUTE EACH	CIRCUTS	
DES.	BREAKER OTY. P. AMP. OTY. F		1 POLE SPACE	LOC	MTG.	BUSSING	VOLT	ž	24 CI	45 CJ	25	20	
B/A	51 1 20	<u>; </u>	0	B06	s	100A MLO	120/208V 3Ø 4W	1			×		
в/в	55 1 20 2 3 15 4 3 50	-	0	B01	s	225A MLO	128/208V 3Ø 4W	1				×	
LS/A	21 1 20 1 3 60	-	٥	801	s	1DGA MCB	128/208V 3Ø 4W	4	x				
LS/B	24 1 20-		0	239	F	100A 60A MCB	120/208V 30:4W	1	х				
1/A	74 1 20 1 1 3 20 2 3 15	1 30	0	111	5	225A MLO	120/208V 3Ø 4W	1				×	
1/B	36 1 20 6 3 15	-	0	108	s	225A MLO	120/208V 30/4W	1			x		l
2/A	72 1 20 4 1 3 15 1 1 25	2 30	0	M110	s	225A MLO	120/208V 3Ø 4W	1				x	
2/B	48 1 20 1 3 30 1 3 50	Ħ	0	104	s	225A MI,O	120/208V 3Ø 4W	1			x		ĺ
3/A	55 1 20 1 1 2 20 2 3 3 15 1 1 3 35	3 40 3 50 2 60	0	300	F	400A MLO	120/208V 3Ø 4W	1				x	
DP/A	3 3 225 2 3 30 2 3 100		٥	234	s	BOOA MCB	120/208V 30 4W						
A2/A	84 1 20		0	266	s	225A MLO	120/206V 3Ø 4W	1				x	
A2/B	84 1 20	\blacksquare	٥	.503	F	225A MLO	120/208V 3Ø 4W	1			-	×	
A2/C	82 1 20 1 2 25		0	239	F	225A M1,D	120/208V 3Ø 4W	1				×	l
A2/D	42 1 20		0	235	s	100A MLO	120/206V 3@ 4W	1		×			

		FLOOR BOX S	CHEDULE	
TYPE	MANUFACTURER	CARPET CATALOG NUMBER	TILE CATALOG NUMBER	FEEDS
A	HUBBELL	S1SFB-S1CFCBL-SISPFFBL	S1SF8-S1TFCBL-SISPFFTBL	POWER & LOW-VOLTAG
В _	HUBBELL	S1SFB-S1CFCBL-SISP4X4	S1SFB-S1TFCBL-SISP4X4	POWER & LOW-VOLTAG
C	HUBBELL	51SFBAV-S1CFCBL-SISPFFBL	SISFBAV-SITFCBL-SISPFFTBL	POWER & LOW-VOLTAG
0	HUBBELL	S1SFB-S1CFCBL-SISPFFBL	S1SF8-S1TFCBL-SISPFFTBL	LOW-VOLTAGE
E	HUBBELL	S1SF8-S1CFCBL-SISPFFBL	S1SFB-S1TFCBL-SISPFFTBL	POWER
F	HUBBELL	S1SFBAV-S1CFCBL-SISPDUSL	S1SFBAV-S1TFCBL-SISPDUSL	POWER & LOW-VOLTAG
G	FSR	FL-540P-6 SERIES (BY G.C.	WITH ACCESSIBLE FLOOR)	POWER & LOW-VOLTAG

1. COORDINATE FLOOR BOX LOCATIONS ON SITE WITH EXISTING FLOOR OPENINGS.

2. COORDINATE ALL FLOOR BOX REQUIREMENTS WITH TECHNOLOGY CONTRACTOR.



Page 1 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 | Page 2 |



PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements)
Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS BID DOCUMENTS

C REVISIONS
DATE | DESCRIPTION

KEY PLAN

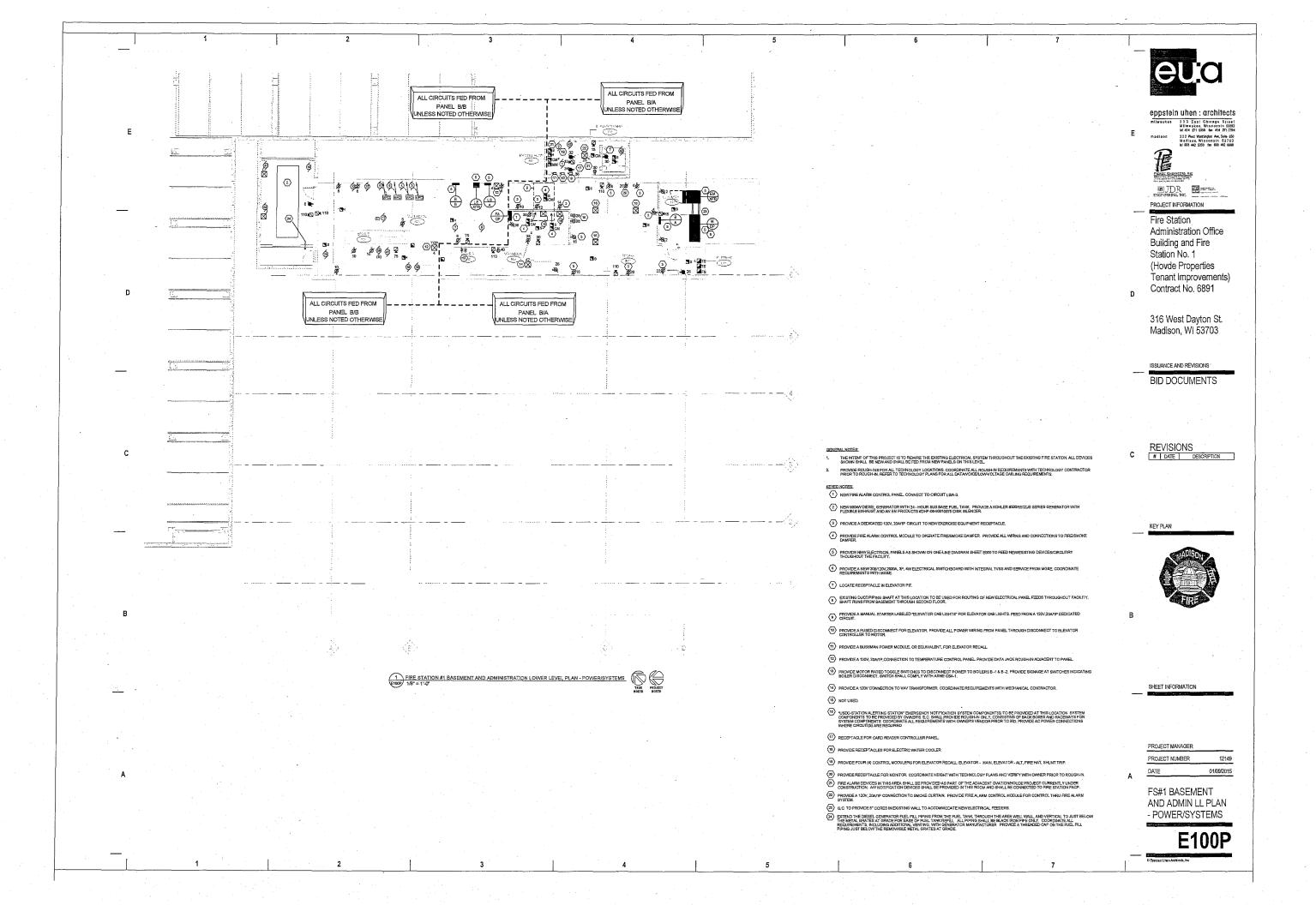


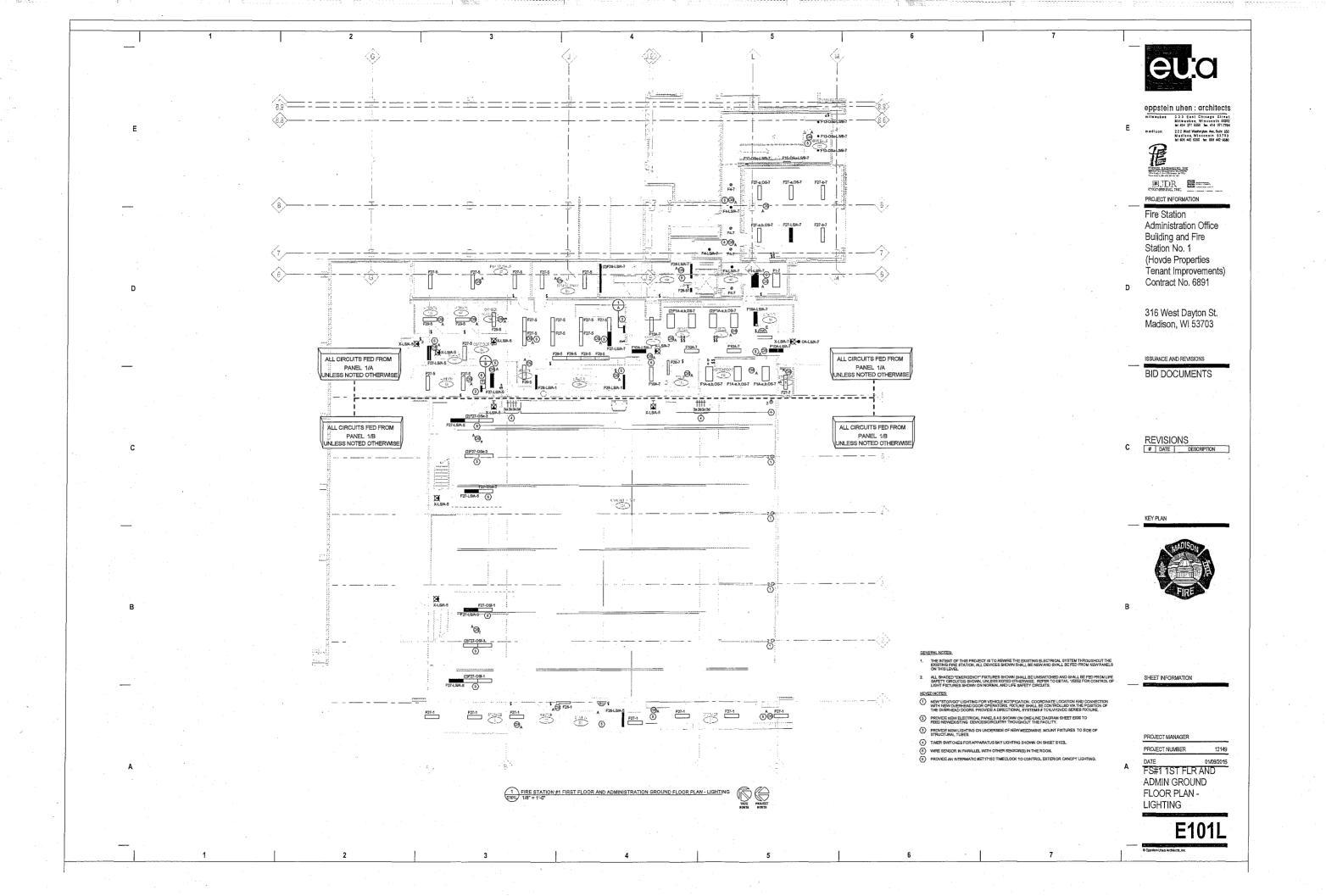
SHEET INFORMATION

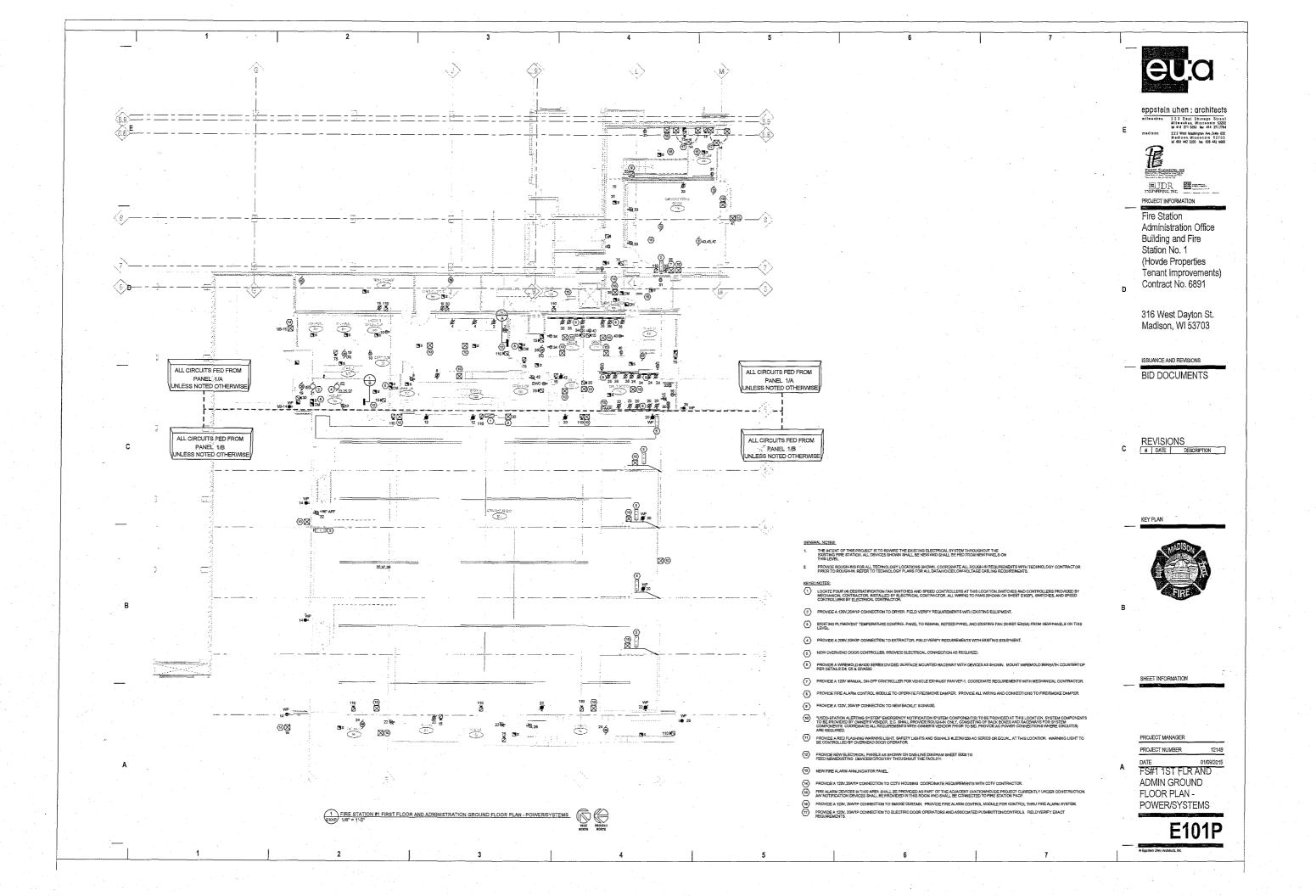
PROJECT MANAGER	
PROJECT NUMBER	121
DATE	01/09/20

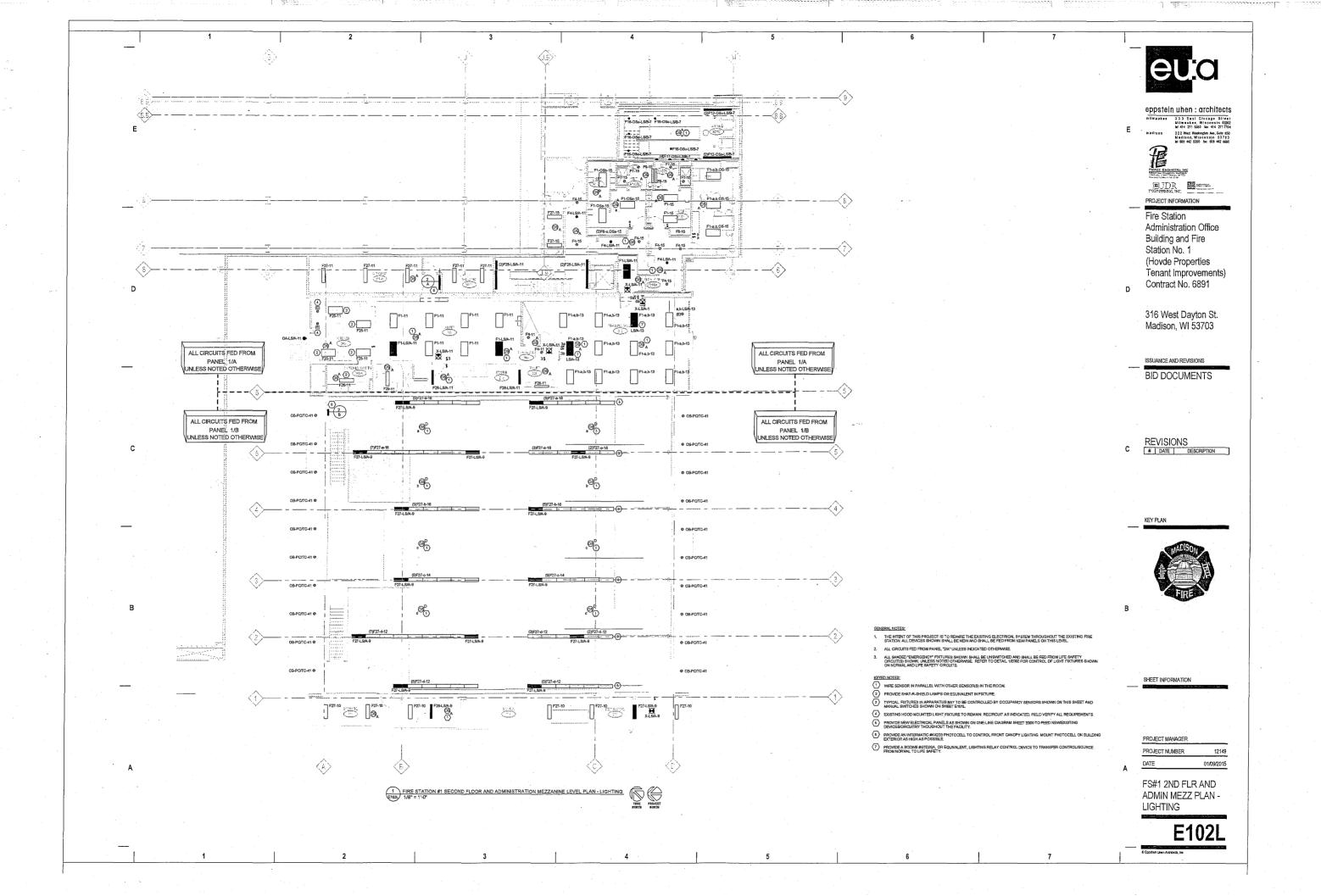
SCHEDULES -ELECTRICAL

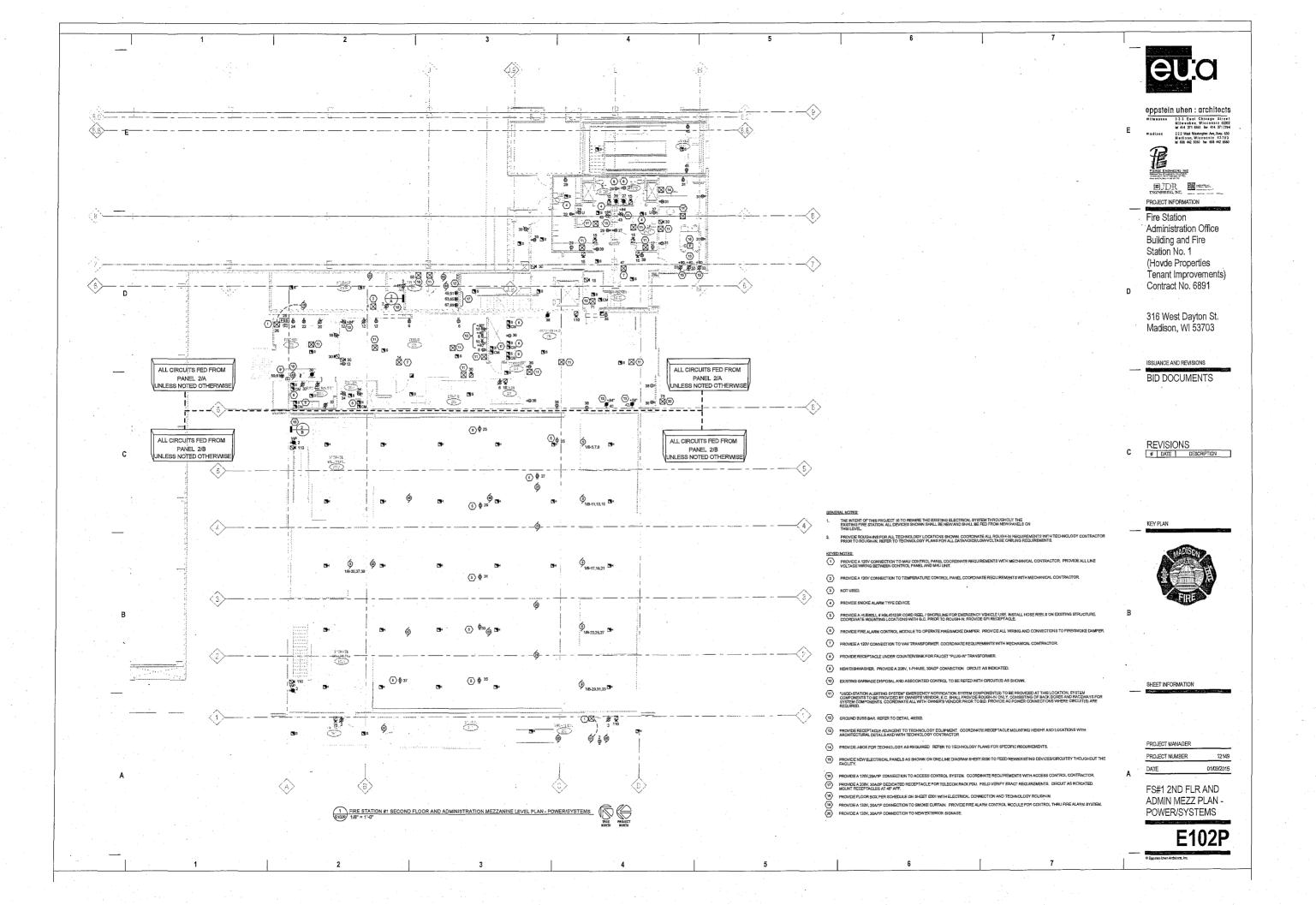
E001













3 3 3 East Chicago Street Milwaukee, Wisconsin 53002 H 414 271 5359 fax 414 2717794 222 West Washington Aw, Sule 650 Madisson, Wisconsin 53703 H 605 442 5350 fax 608 442 6680



INDIN INC. INC.

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

C REVISIONS

DATE DESCRIPTION

KEY PLAN



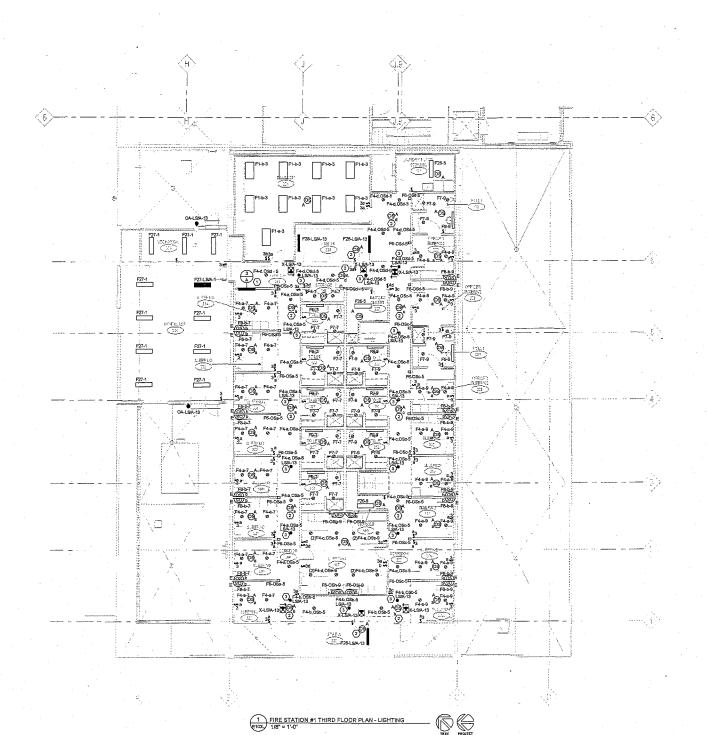
SHEET INFORMATION

PROJECT MANAGER

PROJECT NUMBER 12149 DATE 01/09/2015

FIRE STATION #1 3RD FLOOR PLAN -LIGHTING

E103L



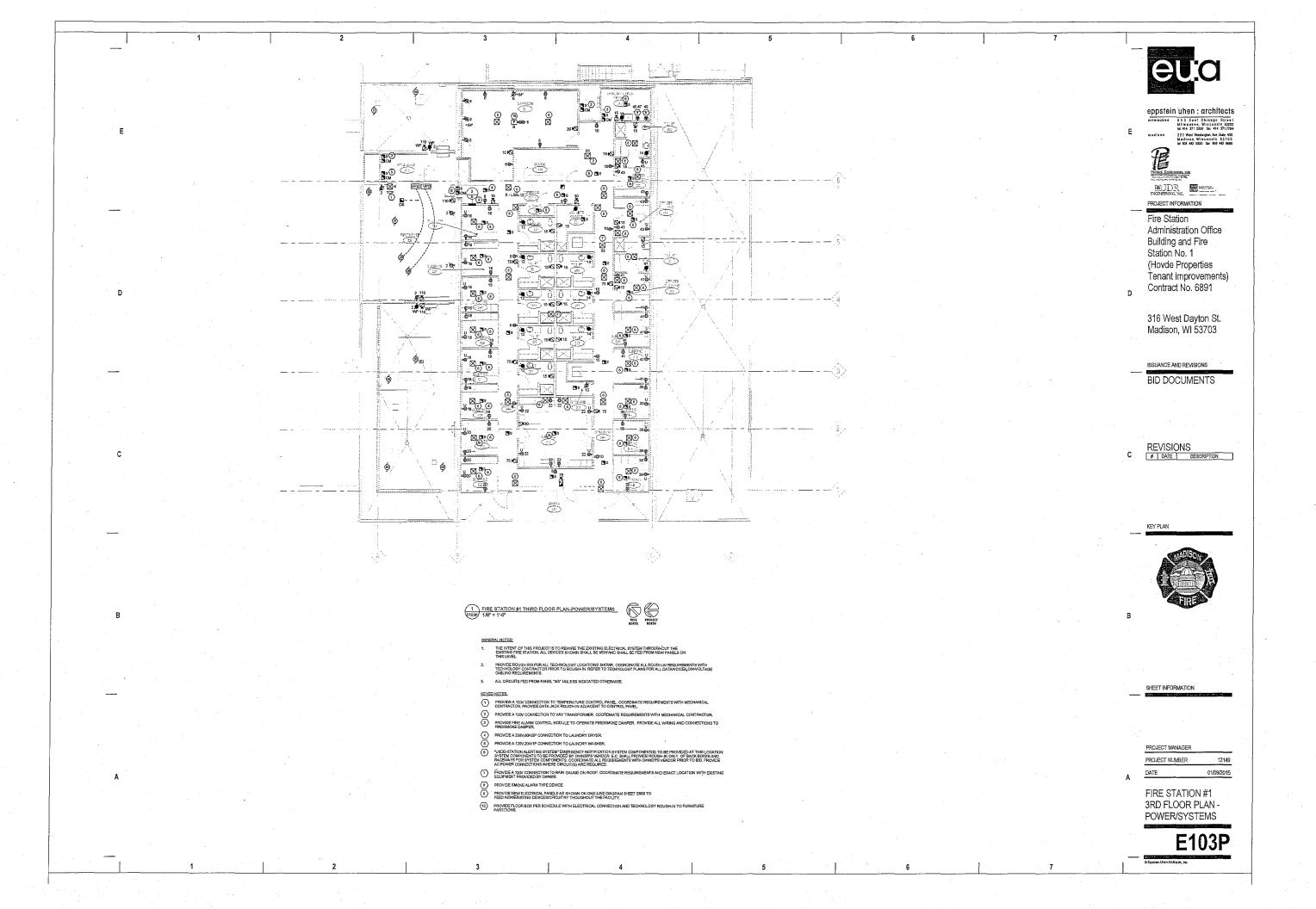
THE INTENT OP THIS PROJECT IS TO REWRE THE EXISTING ELECTRICAL SYSTEM THROUGHOUT THE EXISTING FIRE STATION, ALL DEVICES SHOWN SHALL BE NEW AND SHALL BE FED FROM NEW PANELS ON THIS LEVEL.

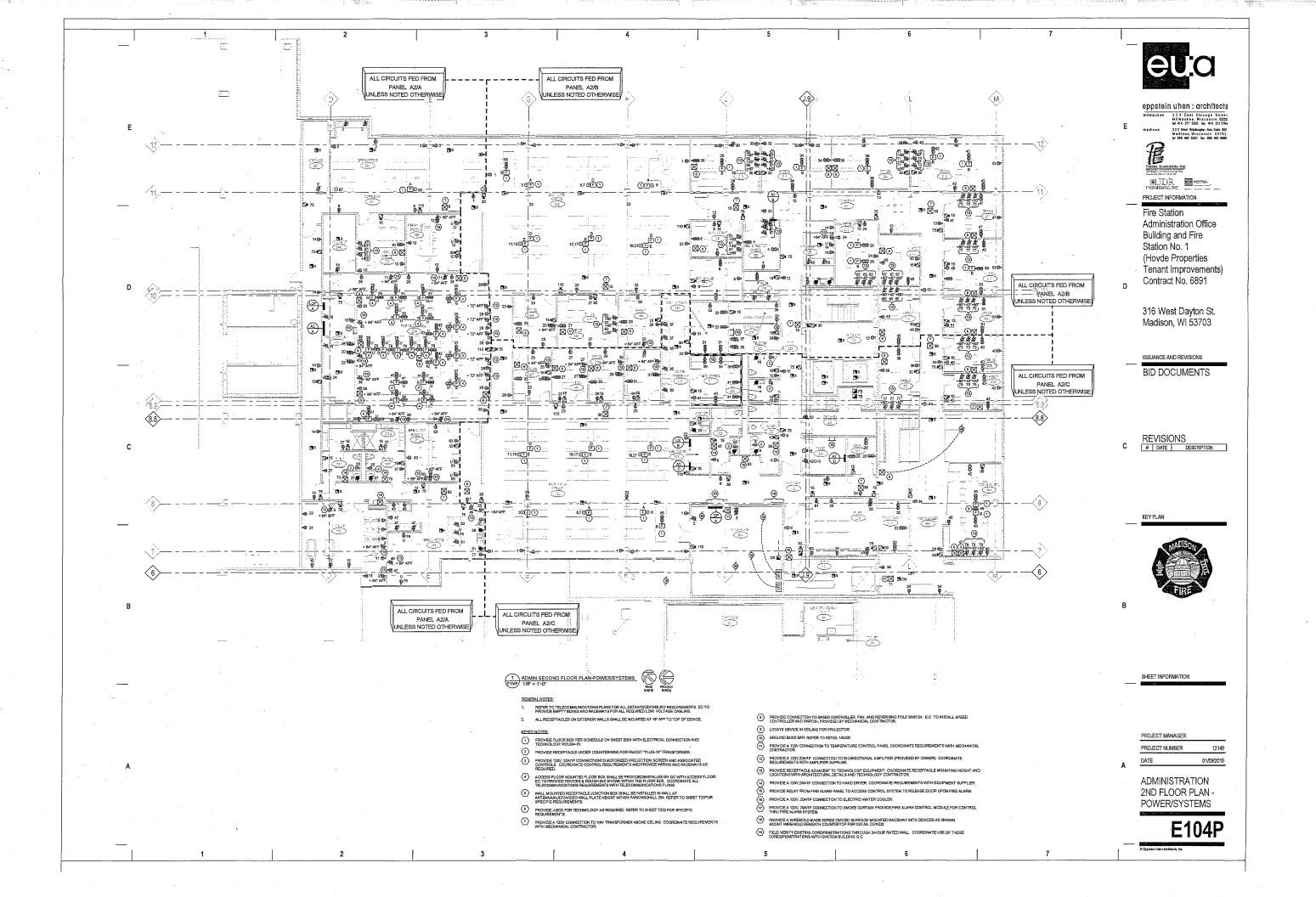
ALL SHADED "EMERGENCY" FIXTURES SHOWN SHALL BE UNSWITCHED AND SHALL BE FED FROM LIFE SAFETY CIRCUIT(S) SHOWN, UNLESS NOTED OTHERMISE. REFER/DETAIL 1(E002 FOR CONTROL, OF LIGHT FIXTURES SHOWN ON NORMAL AND LEFE SAFETY CIRCUIT

1 PROVIDE NEW ELECTRICAL PANELS AS SHOWN ON ONE-LINE DIAGRAM SHEET EDOUTO FEED NEW EXISTING DEVICES/CIRCUITRY THOUGHOUT THE FACILITY.

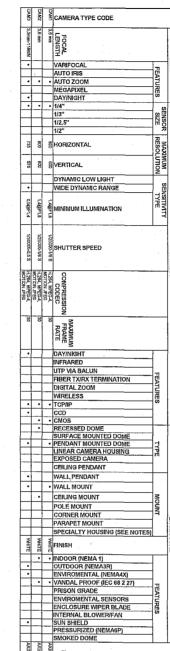
ALL CIRCUITS FED FROM PANEL "3/A" UNLESS INDICATED OTHERWISE.

2 WIRE SENSOR IN PARALLEL WITH OTHER SENSOR(S) IN THE ROOM. 3 PROVIDE A BODINE #GTD20A, OR EQUIVALENT, LIGHTING RELAY CONTROL DEVICE TO TRANSFER CONTROL/SOURCE FROM NORMAL TO LIFE SAFETY.



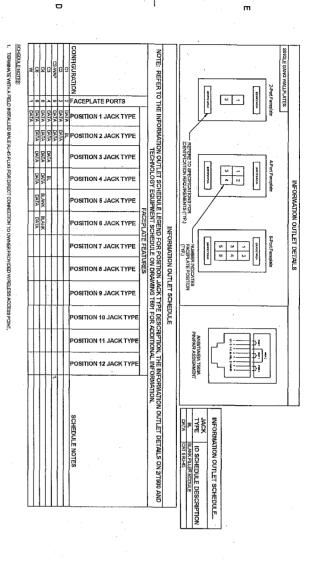


IP CAMERA STORAGE CALCULATION BASIS RESOLUTION ANDIVIDUA CAMERA (CCTV) REQUIREMENTS SCHEDULE S S DISTANCE TO TARGET INIMUM PIXELS PER FOOT ON TARGET DETAIL
REFERENC
E
201501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501
1/17501 NOTES



C

CAMERA (CCTV) TYPE SCHEDULE



1	L	İ	İ	İ												1	1	Ī	İ	İ	İ	İ	t	Ì	1	1	ROUGHIN ONLY		CONTRACTOR, REFER TO THE TEC
8	3 2	3	8	3	Š	CR1	죵	3	3	8	징	졍	3	용	3	8	8	3	3	3 5	2 5	3 5	3 5	3 5	3	8	CREDENTIAL READER TYPE	Ω	HIN
I	L	Ι	I															Ι	Ι	Ι	I	Ι	I	Ī	I		MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	READER	R
1	L	L	ľ	L												_			I	I	L				I	1	OPERATES MULTIPLE DOORS	READER	욹
1	L	L	L	L																1							WIRELESS	~}	굒
1	L	L	L	Ĺ								1							I	I	Ι		I	I	I		AUTOMATIC DOOR OPERATOR		[٣
																1	1	T	T	T	Τ	T	T	T	T	1	ELEVATOR	1	۱ª
T	T	T	T	Г		Г	7	7	٦	7	7	7	7	7	7	1	7	T	1	T	T	T	T	1	7	7	LOCKED BY EMERGENCY DURESS SEQUENCE	ĺ	直
T	Ī	T	Τ	Γ	Г		П				1	T		7	T	Ť	T	T	1	T	T	T	T	T	T	1	NFANT PROTECTION	Ē	윤
I	•	ŀ									•	•	-	٦	T	7	T	T	T	Τ	T	T	T	T	T	1	NTERCOM INTEGRATION	8	Nor
															J	1	T	T	T	Τ	T	T	T	T	T	1	NTRUSION DETECTION	INTEGRATION	189
T	Γ	Τ	Γ	Γ	Ï						٦	T					1	Ţ	ŀ	·T	T	T	T	T	T	1	REMOTE UNLOCK VIA FIRE COMMAND CENTER	z	뗦
T	Τ	T	Τ		П				٦		٦	7				Ī	T	T	T	T	T	T	T	T	Ī	1	VIDEO SURVEILLANCE	١.	HNOLOGY EQUIPME
T	Ι	Γ	Γ	Γ									,		1	T	1	T	T	T	Τ	T	T	T	1	7	WANDER PREVENTION SYSTEM		肾
·		ŀ	•	٠	•	•	•	-	•	•	•	-	-	-	-	-	-	٦.	Ţ.	.[ŀ	1	1	ŀ	·Ī	-	NTERNAL ELECTRIFIED HARDWARE CONNECTION	_	왕
Ī	I	T	Γ	Γ			П			7		T			T	1	T	Ţ	Ī	Τ	Ţ	T	Τ	T	T	1	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	REQUEST TO	EDU
T.	Τ	T	Τ	Γ	Г		٦		٦	٦	٦	T	٦	7	7	1	7	T	Ť	T	T	T	T	T	T	7	MOTION DETECTOR	EXIT	E
T	Τ	T	Τ	Γ	П				٦	٦	٦	٦		7	7	T	T	T	T	Ī.	Ī	:	T	T	T	7	REMOTE PUSH BUTTON OVERRIDE	7	NO
•	•	•	ŀ	٠	·	•	•	•	•	-	•	-		•	-	-	•	1	Ī	1	1	ŀ			ŀ	•	ELECTRONIC LOCKING HARDWARE (BY GENERAL CONTRACTOR)		18
T	T	T	Γ	Г								٦	_		1	T	T	T	Ť	T	T	T	T	T	Ī	-	MAG LOCK	3	8
Ţ	T	Ţ	T	Γ		Γ,		7		Į	7	7	7	1	7	7	1	T	Ţ	Ţ	Ţ	T	T	Ţ	7	7	LATCH STATUS DETECTION	8	등
T	Γ	Τ	Ī	Γ			П		٦	٦	٦	٦	٦			T	1	T	T	T	T	T	T	T	1	1	LOCAL ALARM HORN	포	공
T	T	T	T	Г					7	٦	1	T		1	7	1	1	T	İ	Ť	Ť	t	T	Ť	Ī		MONITOR LATCH BOLT	DOOR HARDWARE	SE
	•	1.	•	•	٠	•	•	•	7	٠	•	•	•	•	•	-	•	1			1	1	1	1	ŀ	•	MONITOR DOOR POSITION SWITCH SPDT	¥.	開
T	Ī	Ī	Ι										_	٦		T	T	T	Ť	Ţ	Ť	T	T	Ť	1		MONITOR DOOR POSITION SWITCH DPDT	m	H
T	Τ	Τ	Γ	Γ		Г					٦				1	Ī	T	T	T	T	T	Τ	T	T	Ī	T	MONITOR MAGNETIC POSITION SWITCH	1	굒
T	T	T	T	Γ	П		П				٦	7	٦		T	T	1	T	Ţ	Ť	Ť	Ť	Ť	Ť	Ť	7	DELAYED EGRESS	_	Ŕ
T	I	T	Γ	Γ						7		7	7		1	1	1	7	1	Ť	Ť	T	T	T	7	1	LOCAL 120VAC POWER SUPPLY	OTHER	급
I	Γ	I	Ι					-									T	T	T	T	Ī	Τ	T	T	Ī	1	SCHEDULE BASED LOCKING	Ä	PE
ľ			ſ	ſ										1		Ī	Ī	Ī	ŀ	T	Ī	Ī	I	T	Ī	Ī			CONTRACTOR, REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE ON DRAWING T801 FOR CREDENTIAL READER TYPE INFORMATION.
			ļ									١					١			1		١		١		ŀ			É
-			١				П															l	ı	ŀ		١	S		B
١			1														1	l	١		Į	1		1	١		NOTES		ľ

CONGLUESING MURITIMOMY PAR SEASON CONTROL OF THE SEASON CONTROL OF

T600

SCHEDULES - TECHNOLOGY

PROJECT NUMBER

REVISIONS
| DATE | DESCRIPTION

BID DOCUMENTS

316 West Dayton St. Madison, WI 53703

Fire Station
Administration Office
Building and Fire
Station No. 1
(Howde Properties
Tenant Improvements)
Contract No. 6891

TO THE STATE OF TH

eppstein uhen: architects
milvauker 333 Erst Chrasps Strai
Milvauker Wissensin S2222
madison 2227 Will Whistop Ma, Suk 80
Madison Wissensin 83713
Madison Wissensin 83713
Madison Wissensin 83713

Г	<u></u>	TECHNOLOGY EQUIPMENT SCHEDULE	
THE B	YMBOLS AND THE ONSIBLE FOR VERI	TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH O RICATION OF QUANTITIES AND SYALL PURNISH ALL MATERIAL REQUIRED, WHETHER SPECIAED OR I US SYSTEM.	ONTRACTOR SHALL BE NOT, TO PRODUCE A
CATAL MATE	LOG NUMBERS SHI RIAL SHALL BE ORI IF MAYERIAL ON TH	IN STOLEN. LA, NOT SE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH DEPEND BY MANUFACTURER AND CATALOS INJURIED ONLY. SEAR CONTRACTOR SHALL FIRST READ LICESE DRAWINGS AND SPECIFICATIONS. THE RIST MANUFACTURER LISTED IS THE BASIS OF DESIGNATION WISH AVAILABLE AT NO ADOTTIONAL CHARGE.	
ITEM NO,	TAG NAME	DESCRIPTION	APPROVED MANUFACTURERS
1	SCIDWY	INFORMATION COULTET YALL INJUST, 2.4 SPORT CONTRIVATE AS INCICATED ON DIAMMORIS, APPLY TO DIAMMORI TORON OFFI CONFIDENTIAL OFFI "#" INCICATES INFORMATION COULTED FACELY CONFIDENTIAL ON A PRICATED ON THE FLARS, REPERT OF DOMINIOT TORON OFFI ANY AFF FOR YALL MICE PROTECT PROVIDE WITH FAMPLISS STEET AND FAMPLY AND THE COMPANY OF THE PROPERTY OF THE THAT PLANS THE TRANSPORT AND THE TORON OF THE THAT PLANS THE TRANSPORT AND THE TORON OF THE THAT PLANS THE TRANSPORT AND THE TORON OF THE THAT PLANS THE TRANSPORT AND THE TORON OF THE THAT PLANS THE TRANSPORT AND THE THAT PLANS THE TRANSPORT AND THE THAT PLANS THE TRANSPORT AND THE THAT PLANS	COVERPLATE: NUBBELL IFP SERIES SYSTIMAX BELDEN ORTRONICS
		NATIOL INCOMMENDIATION FOR IT IN A TEMBER ENGINE WITH A SINGLE GAMP PLATTER WING, INSTALL A FOR COOLEMN FORMULE COORDING, CECUMA, PROVIDE REMOVABLE LUMAN, INSTALL A FOR COOLEMN FOR THE PLATE (INSTALLS, STRING, CELUMA, PROVIDE PROVIDED FOR TO INSTALL.) REFER TO 271500 FOR ROUGHHY DETAIL.	JACK: MIZBELL CATE, HAJS SERIES SYSTIMAX BELDEN ORTRONICS
z	\$0±0±0	BEFORMATION COULET, CELLIN MOUNT, 2. A L-PORT COORPELATE AS INJUCATED ON DEARWINGS, REPET DORNMAN TOOR DEAR HIS CONFIDENCIAL OF MICH CONFIDENCIAL OF THE PLANES, REPER TO DRAWNING TOOL PLANES PROPERTY CONFIDENCIAL OF THE PLANES, REPER TO DRAWNING TOOL PLANES, THE CONFIDENCIAL OF THE PLANES, REPER TO DRAWNING TOOL PLANES, THE PLANES, PROPERTY WITH A RIVING PLANES, PROPINGE REMOVEDED, AND MICH SEMENTIAL PROPINGS.	COVERPLATE: NUBBELL IFF SERIES SYSTIMAX BELDEN ORTHONICS
			JACK: HUBBELL CATE: HXJE SERIES SYSTRAX BELDEN ORTRONICS
3	SC-WAP-C	INFORMATION OUTLET FOR WIRELESS ACCESS POINT, CEILING MOUNT, TERMINATE WITH A RLAS FULL FROIT DRICT CONNECTION OWNER PROVIDED MINELESS ACCESS POINT, REFER TO DEWNING TWO FOR RIN CONFIGURATION, CONTRACTOR TO INSTALL OWNER FURNISHED WIRELESS ACCESS POINT.	
1	SCHOF	INCOMMENTATION CUTLET, FOUR-PROGRAM MOUNT, FIRE RATED, 4 HOUR RATED, TWO (2) ** EMIT COMPOSITE, TWO (2) ** EMIT COMPOSITE, TWO (2) ** COMMISSION FOR FIRE AND EASY RESIDE. 2, 4 E-PORT COMPOSITED FOR FIRE AND EMPIRED TOO PROGRAM TOO FOR HIM. **COMPOSITE FOUR AND EMPIRED TOO PROGRAM TOO FOR HIM. **PLACES, TETTER TO DISNOVING TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, TETTER TOO. **PLACES, T	HUBBELL SYSTEM ONE SIFTFIT SUBPLATE SISP SERIES SYSTIMAX BELDEN ORTRONGCS
			ORTRONGCS JACK MUSBELL CATE HOUS SERIES SYSTIMAX BELDEN ORTRONGCS
5	SCIDAW	POIS-THROUGH, FIRE MAYER, 4 HOUR RATING, TWO (2) I' EMT CONDUITS, PROVIDE WITH PURVITURE PEED PLASE.	HUBBELL SYSTEM ONE SIPTEIT FUNNITURE PLAYE SISPEF SERIES WIREMOLD
6	SC-RI-W	TECHNOLODY ROUGHIN, FLUSH MOUNT ON WALL OR AS NOTED IN PLANS, PROVIDE WITH A 4" SQUARE BACAGOS, SINGLE GANG PLANTER RING, BLANK COVERPLATE AND A 7" EMT CONCULT TO ABOVE ADDRESSIBLE CEILING.	
7	SC-ER-1	ECUIPMENT RECL. RE-HIER STANDARD TO MULTIPLES STAND, C-YMOD, EX DISE PURSONS EXPLUSIVED PASS-HIM USUDES ON PROVINCE PASS TO FOR LONG MANAGEMENT PROVIDE TWO PER RACK, MUDULAR DERIOS ON FRONT OF VERTICAL, DECAMINESS, MISTAL MINIST DOCKER PROVINCE HOW PER MICK, TO YOUR DESIR VALVES HE TO CHANGE, PARIONS FOR HOW PROVINCE (M) 1375 MOUNTING SPACES.	HUBBELL HPYBARR 19D ORTRONICS HOMACO INC. CHATSWORTH PRODUCTS
8	SC-LR-1	LADDE RACK, IT WITUBLAN STEEL CONSTRUCTION, RUST RESISTANT ENAND, FINSH, RIBIOVE SHAVE BURNS FROM LADDER RACK AND REPAINT ALL ANGAS THAT HAVE BEEN RIBLO MODRHED, OUT OR EXPOSED, ULL USTED,	HOMACO INC. TR10-18 CHATSWORTH PRODUCTS B-LINE
9	SC#D0:4	OPTICE, RESP. ESTREUTION-PAIG, RECALCIOUT, ILIENDAN, SE PRIES CAPACITY, PROVIDE WHIT CAUR AND BOOKSTORES, TO CONTROL PAIGHES, DEL CONNECTORES, COUPLINGS AND JUAPERS, RECURES (1) 1.75' MOUNTING SPACES.	HUBBELL FOR SERIES PANELS: PSF SERIES SYSTIMAX BELDEN ORTRONICS
10	<u>\$04004</u>	OPTICAL PRIER DETERMINATION PANEL, PACCALIZACIA, FOND CENERY, MANIGUAL VA FIRER CAPACTIT, PROMOBINICATION CONCENTRATION PANELS, DUPLEX LO CONNECTIONS, COUPLINGS AND JUMPERS, REQUIRES (2) LTP MILIARTING SPACES.	HUBBELL FOR SERIES PANELS: FSF SERIES SYSTIMAX BELDEN ORTHONICS
11	SC-VFP-1	VOICE PATCH PAREL WILL MOUNT, THE TIME TOURING PROVINGS WITH MOUNTING LIFES AND ACCESSIONES. SEE SPECIFICATIONS, PROVINCE WITH HELD TOWNSHATION KITS (MASSELL THREILX TOWNSHATION KITS (MASSELL THREILX TOWNSHATION KITS).	HUBBELL 1108LK1008YAL SYSTIMAX SELDEN CRTRONICS
12	SC-VPP-Z	RACK MOLATTED VOICE PATCH PAPEL. 110-TPE: TYPO (2) BRADDETS DESIGNED TO MOUNT TO BEHTAL STRUMBED OF PACK, PACL USED WITH THYO (2) SCAPAR 110-TYPE WIRING BLOCKS AND WIRING TROUGHS, PEDUIRES (2) 1,79° MOLATING SPACES.	HUBBELL 110RM14 SYSTIMAX BELDEN ORTRONICS
13	SCAPP-2	HIGHLARY PATTHERAND, AN ADQUARE RELAT TRIBUNATIONS, MOUNTS INSECTLY TO SEATH STANDARD IF SEAT AND A PORT PATT GENERAL PROVIDED WITH COURS COCKING AND LABEL HIS LORI RTS. UL. LISTED, REQUIRES (2) 1,79 MOUNTING SPACES,	HUBBELL CATE: PECHSU SYSTIMAX BELDEN ORTRONICS
14	<u>50-PS-1</u>	POWER TRIEN HORIZONTALI MIGNATIS IN A STACABIL BATTA 15" RACK, 110 IRSAN RECEPTACES, EXWADATEN, PROVINCE WITH 104" CORO_INTERNAL CRICALIT BREAMER, UL LISTED, RECURRES (1) 1.75" MOUNTING SPACE.	HUBSELL HPWPWR HONACO INC, CHATSWORTH PRODUCTS TRIPP LITE
15	SCHWIA2	HONIZONIA, WING MANAGEMINI, T.Y. TI RIGO FROM PRIVIDENS WITH INJURIE RETRETION THAS, T.Y. FE PACINE REART PRICERS RECOVABLE FROM TO COURS HAVES 10 DECERTION OF COURS. THE STATE OF THE STA	HUBBELL HC219CE1N SYSTIMAX BELDEN GRTRONICS
16	<u>5C-78</u>	JUNCTION BOX. 4 11/16" SQUARE X.2 1/2" DEEP BACKBOX, DOUBLE GANG PLASTER RING, FURNITURE YHRIP CONNECTION PLATE, TWO (2) 1 "A" CONDUITS TO ABOVE ACCESSIBLE CEILING.	
17	SC-SND-1	WALL-MOUNT GROUND BMS, 6" H X 12" L X 12" D COPPER, ELETTROALLY (SD. ATED BY MAN TO THE STATE OF	CHATSWORTH PRODUCTS 40153-012 ERICO NARGER .
18	SC-GND-2	RACK MOUNT GROUND BAR, COPPER, SHE' DIX SH'HIX, TE YY, (8) REAZ TAPPED LUS MCUATRING MCLES, (4) SHE' UNTAPPED LUSS, ULL LISTED, REFER TO ATSOC FOR ADDITIONAL INFORMATION.	CHATSWORTH PRODUCTS 10510-019 ERICO HARGER
19	SC-718-1	TELECOMMUNICATIONS TERMINAL BOARD, 4 X 5 X 34" AC GRADE FIRE-RATED PLYMODD, EXPOSED SIDE SHALL BE SMOOTH, MOUNT VERTICALLY WITH TOP OF PLYMODD AT 6F A.F.F.	•
20	<u>80-01-1</u>	ONE THAT YMERILEN TITE. I CORNOLOFFIN, IN WORK, COMPLETE WITH AL HITTIGGS AND MODIFIED WORKSHIP COMPLETE THE SECRET WITH AL HITTIGGS AND MODIFIED WORKSHIP COMPLETE THE COMPLETE OF THE CONTROL REPAIRSE, CLITING OF THE ISSET ONLE THAT SHALL BE COMPLETED SOCIETY. CORNOLORS SHAPPED AND ASSETS WERE SHALL BE USED TO THAT MODIFIED AND ADDRESS WERE CORNOLORS SHAPPED AND ASSETS WERE SHAPPED AND ADDRESS	COOPER B-LINE FLEXTRAY FT4X18x10 MDNO-SYSTEMS CABLOPIL
21	50-CT-2	CABLE TRAY, WHRE MESH TYPE, 2" LOADING DEPTH, 15" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE REQUIRED UNDERFLOOR MOUNTING HARDWARE. COLTING OF THE MESH CABLE TRAY SHALL BE COVE WITH OFFSET YOLT CUTTERS ONLY. EITHER SPILDE YASSESS OF TERMINAL CADDING SUPPORT AND JUMPER WIRE SHALL BE	PANDUIT GRIDRUNNER CIES SNAKE CANYON ACT FLOOR FLEX

	1111	CHNOLOGY EQUIPMENT SCHEDULE (CON	TINUED)
25	AC-PS-1	ACCESS CONTROL POWER SUPPLY, CONVERTS 119VAC INPUT TO 8 INDEPENDANTLY CONTROLLED 12VICO OR 2N/DC FAIL SAFE AND/OR FAIL SECURE OUTPUTS, INCLUDES BUILTIN BATTERY BACK-LIP.	ALTRONIX ALECOLACIN NO SUBSTITUTIONS
27	VS-CANLC	CCTY CAMERA, CEILING MOUNT, PROVIDE A C SQUARE BACKBOX AND A T CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING, REFER TO CAMERA (CCTY) TYPE SCHEDULE ON DRAWING TEXT FOR ADDITIONAL INFORMATION.	AXIS MS014
28	VS-CAM-W	CCTY CAMERA, WALL MOUNT, PROVIDE A 4" SQUARE BACKBOK AND A 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING, REFER TO CAMERA (CCTV) TYPE SCHEDULE ON DRAWING TOOD FOR ADDITIONAL INFORMATION.	NO SUBSTITUTIONS AXIS M5014
29	VS-CAN-1	CCTV CAMERA, PTZ, EXTERIOR, PDLE MOUNT, PGE, REFER TO CAMERA (CCTV) TYPE SCHEDULE ON DRAYNING TROP FOR ACCITIONAL INFORMATION.	NO SUBSTITUTIONS AXIS OSD-E
30	VS-PS-1	CTV CHASTA FOWER SUPPLY, INCOCR. 20042 WITH ANYWAY COTTAY. AT POWER PROSECTION OF THE OWNER OWNER OF THE CHASTA CH	NO SUBSTITUTIONS PELCO VICON PANASONIC PHUPS
31	AX-SAM-1	SPECIFICATION SECTION 28/23 00 FOR COMPLETE INFORMATION, AUDIOWIDED VIDEO CONFERENCE VIDEO CAMERA, WALL OR CEILING MOUNT, HID VIDEO, PANTILITIZOOM FUNCTIONALITY, PROVIDE WITH WALL MOUNTING SHELF ACCESSORY,	AMERICAN DYNAMICS POLYCOM EAGLE-EYE XI
32	AV-CAS-1	AVECURENCE CASINET, FLOCK BOUNT WITH FRONT DOOR, 58 DESIGN 2 VETS, EDIATING MACK, TO LE O'GACTIT, A EU VENTES DES FANCES, 46 GAUCE, FROMOSE WITH INTERRATED PART TOP PARE, AROUR 41 AVE TRANS (MODELS, MINH-GOTE, REMIVADE SENT INDOOR, OUT IN BOTTOM HAVEL, NOTATES OUT OF HOUSING AT A 50° ARSLE, INTEGRATED VARIE. MANAGEMENT.	MIDDLE ATLANTIC WR-44-32 NO SUBSTITUTIONS
23	AV-TP1-M	AUDIOMOSE SYSTEM TOUCHSCREIN CONTRO, PANE, WIRLESS, TPT ACTIVE MATRIX COLORICE, 84° DAGONIA, 45° POR. SOSSESS RESCLUTION, 500 T. CORPINAT RATIO, 18 BT UTTO STATEMENT COLORICE, STATEMENT	CRESTRON TPMC-81-GA NO SUBSTITUTIONS
34	AV-TP2-D	AUDIOM/DEO SYSTEM TOUCHSCREEN CONTROL PANEL DESKTOP, 12' ACTIVE DISPLAY, BOXXEO RESCUTTON, FULL MOTION VIDEO, INTERACTIVE ANNOTATION, EMPEDDED WINCOMS OPERATING SYSTEM, BACKLIT FUSH BUTTONS, CONTRAST BOOT, VIEWING ANGLE 4-36" HOREOTAL, 4-36-40" VERTICLE, EMPERARE TOUNNECTION.	CRESTRON V12
35	AV-TP3-W	AUDION/DEG STATEM TOUCHSCREEN CONTROL PANEL, WALL, 4,7 ACTIVE DISPLAY, EDIZAND RESOLUTION, PROGRAMMARIE, SINCLE GANG BOX, ENGRAVED BUTTON CAPS, LED BACRLIT, INSTALL AT 42, ETHERNET CONNECTION.	NO SUBSTITUTIONS CRESTRON TPNIC-4SAID
36	AV-MON-1	AGT LEDYLGD DISPLAY MONITOR.	NO SUBSTITUTIONS OWNER PROVIDED CONTRACTOR INSTALLED
37	AV-MON-2	60" PLASMA DISPLAY MONITOR	OWNER PROVIDED CONTRACTOR INSTALLED
38	AV-MORES	42' LED DISPLAY MONITOR.	OWNER PROVIDED CONTRACTOR INSTALLED
39	AV-MON-4	39" LED DISPLAY MONITOR.	CONTRACTOR INSTALLED
40	AV-SNIV-1	TOUCH SCREEN ANNOTATION MONITOR. CAPACITIVE TOUCH TECHNOLOGY, 19.5°, 16.9 ASPECT RATIO, 192X/1050 PIXEL RESOLUTION, HOXILAND LISPLATPORT INPUTS, USB CONNECTION, PROVIDE WITH SAME MANUFACTURER'S POWER SUPPLY AND DESKTOP MOUNTING KIT ACCESSORES.	CRESTRON TSD-2020 NO SUBSTITUTIONS
41	AV-ANO-1	HIGH DEFINITION DIGITAL VIDEO ANNOTATOR, CRESTNET, RS-232 CONTROL, PROVIDE WITH 4-HDM INPUT CARDS AND 4-HDMI OUTPUT CARDS.	CRESTRON DVPHD-GE NO SUBSTITUTIONS
42	AV-YP1-W	AUDIOMOED WALL PLATE, SINGLE GANG, INPUT; DM 8G+, OUTPUT; HOML RS-232, IR. WHITE DECORA STYLE PACEPLATE.	CRESTRON DM-RMC-100-C NO SUBSTITUTIONS
43	AV-IVP2-II	MADIOLOGO MALE, PARTE & TOURNESS A VED DEEP MONDOS COURS CAND A ACTITÉ RAIS, ONUT TRANSMITTÉ DOUBLE MITH, DOUR OF OUTUF L'ESSE PLOQUIS OWER AND RECURSO BLANK MODULES, WHITE PRAESPHATE, (2) ** COMOUNT TO ABOVE ACCESSIBLE CRUNG.	HUBBELL ISTATION HOW! INSERT ISFH100W 2.5mm INSERT STRUSSAW BLANK INSERT STRUSSAW FACEPLATE IMF20W
44	AV-MP2-F	AUCKOYDEC POKE-THROUGH, FIRE RATED, HOM TRAVENITTER MODULE WITH (2) CAY 6 OUTPUT, 3.5mg PC AUDIO (NPUT AND REQUIRED BLANK MODULES, WHITE PACEPLATE.	OR PRE-APPROVED EQUAL
			POCKETHROUGH SYSTEM ONE SYSTEM ONE SYSTEM ONE SYSTEM ONE SYSTEM ONE SUSPICION SUSPICION FOR INDEXT SPHIOD 3.5mm INSERT SPSSIM BLANK INSERT
		·	BLANK INSERT SPSBW FACEPLATE IMF20W OR PRE-APPROVED EQUAL
45	АКИРЭН	AUXIONIDEO WALL FLATE, 4 THIP SOLARE X,1 NZ DEEP BACKIOX, TWO SINGE GARRIS CONSECUTION, 32 CARRIS CONSECUTION, 32	FACEPLATE IMF20W
45	AUMPAN	AUCOVIDEO WALL FLATE, 4 THITE SOLAREX, 2 TAT DEEP BACKBOX, TWO SINGLE CAMB CONSISTENCE, DI CAT S FLATE, 4 THITE SOLAREX, 2 TAT DEEP BACKBOX, TWO SINGLE CAMB CONSISTENCE, DI CAT S FLATE & AUCA, AND RECURSOR BECAUSE, MAINTAINED IN ONE SINGLE CAMB FLATE CA	SP-SHY FACEPLATE IMPZOW OR PRE-APPROVED EQUAL HUBBELL ISTATION CATE ARCK SFCSW HOME INSERT ISFH100W 3.500M IMPSERT SF755.5W BLANK INSERT
	~~	AUDIONIDED POWESTHROUGH, PIPE RAYED, F. CORE, INSTAUL DIGITA, MEDIA TRANSINITIER WITH HOME, INS. 3, Mmm. AUGIO, AND USE INPUTS AND DAY 60-CUTPLE WITHEN PORE-THROUGH. AUGIONISED WILL PLANE, POPULATE WITH HOME HOME FRAUE CONNECTION IN A DECORATION WITH THROUGH WITH	SECRETATE MEZON OR PRE-APPROVED ECILAL HUBBELL GATE JACK SPCION S
45	<u>AV.YYP4F</u>	AUTOMOBED PONS-THROUGH, PIPE RATED, IF COME, INSTALL DIGITAL MEDIA TRANSMITTER WITH HOM, YAS, 30mm AUGO, AND USB INPUTS AND DM 80% OUTPUT, WITHIN PONS-THROUGH. AUGODIOGED WILL PLATE, POPULATE WITH HOME HOME FRAME CONNECTION IN A DECORATION BY THE FRAME CONNECTION IN A DECORATION BY THE FRAME USED IN AN "UPPRILOMENT CONNECTION IN A DECORATION BY THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN A DECORATION BY THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN A DECORATION BY THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN THE PRIVALE FURSION IN "UPPRILOMENT CONNECTION IN "UPPRILOMENT CONNECTION IN "UPPRILOMENT CONNECTION IN "UPPRILOMENT CONNECTION IN "UPPRILOMENT CONNECTION IN "UPPRIVALE FURSION IN "UPPRILOMENT CONNECTION IN "UPPRILOMEN	PROPRIATE INFORM
48	AVAYPLE	AUDIANDEO PANS-THROAGH, PIRE RATED, F CORE, INSTALL DIGITAL MEDA TRANSMITTER PAGE-THROAGH. AND MISS REFUTS AND DIS SK-DUTFUL WITHER PAGE-THROAGH. AUDIANDEO WALL PLATE: POPULATE WITH ONE WORS FRANCE CONSECUTION IN A DECORATION STYLE FRANCE THROUGH SEVEN WITH WITHOUT CONSECUTION IN A DECORATION STYLE FRANCE THROUGH SEVEN WITH WITHOUT CONSECUTION WITH A DECORATION STYLE FRANCE THROUGH SEVEN WITH WITHOUT CONSECUTION WITH A DECORATION FRANCE WITHOUT CONSECUTION WITH A DECORATION FRANCE WITHOUT CONSECUTION FROM WITH FROM WITHOUT CONSECUTION FROM WITHOUT CONSECUTION FROM WITH FROM WITHOUT CONSECUTION FROM WITHOUT CONSEC	PROPRIATE INFORM
47	ALMPLE	AUDIONIDEO PONSTHROUGH, PIRE RATED, F. CORE, INSTALL DIGITAL, MEDA TRANSMITTER YITH HOME ITEM. TAS ASSEMBLY AND DIRE IN CONTROLLED AS ASSEMBLY AND DIRECT	PROCENTALE MINZON OR PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL ISTATION OF PREAPPROVED EGILAL ISTATION OF PREAPPROVED EGILAL ISTATION OF PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL ISTATION OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREAPPROVED EGILAL OR PREA
45 45 49	ANAPPAN ANAPPAN ANAPPAN	AUDION/DEO PONS-THROUGH, PIRE RATED, F CORE, INSTALL DIGITAL, MEDA TRANSMITTER WITH HAM, IVA, 3 mm AUDIO, AND USE INFUTS AND DAI SH- DUTPUT WITHIN PORCH-HINDOWS. AUDION/DEO WALL PLATE, POPULATE WITH ONE HOM FEMALE CONNECTION (IN A DECORATION STILL PRANSE, THE SIGNATURE USED INAN' UPPENL OWNER CONTRIBUTION. RESTALL SALE PRANSE, THE SIGNATE USED INAN' UPPENL OWNER CONTRIBURATION. RESTALL SALE PRANSE, THE SIGNATURE DIVINITY OF LONGLIT TRANS LIMPTER SIGN. TO ABOVE ACCUSED USED INAN' UNDER DIVINITY OF LONGLIT TRANS LIMPTER SIGN. TO ABOVE ACCUSED USED INAN' DAVING DIVINITY OF LONGLIT TRANS LIMPTER SIGN. TO ABOVE ACCUSED USED INAN' DAVING DIVINITY OF LONGLIT TRANS LIMPTER SIGN. TO ABOVE ACCUSED USED INAN' DE RESTALL SIGNATURE DE L'UN CONCUSTOR L'UN SIGNATURE DE L'UN CONCUSTOR L'UN SIGNATURE DE L'UN CONCUSTOR L'UN SIGNATURE SALE NO DOUGLE SIGNATURE DE L'UN DIVINITY OR CHEVILLE PAGE PROMO DECIDITE SIGNATURE DE SALAN MODULE SIGNATURE DE L'UN DOUGLE SIGNATURE DE L'UN DIVINITY DE L'UN D	PROCEATE INFORMA
47 45 49 50	ANAPPER ANAPPER ANAPPER ANAPPER ANAPPER	AUDIONIDEO PONSTHROUGH, PIRE RATED, F. CORE, INSTALL DIGITAL, MEDA TRANSMITTER YITH HOME ITEM. TAS ASSEMBLY AND DIRE IN CONTROLLED AS ASSEMBLY AND DIRECT	PROCENTION POST TRIPOLOGY TO THE ATTOCHES AND THE ATTOCHES TO THE ATTO

54	AVHMH	AUDIOVIDEO NETWORK SWITCH, 10/100/1000BASE-T ETHERNET, 24 PDRT, RACK MOUNT, 1 RU,	cisco	
55	AV-1.04-1	USB MUS. TWO USB WPUTS, FOUR USB OUTPUTS, ACCEPTS CONTROL WARS-222.	EXTRON SYM USB PLUS NO SUBSTITUTIONS	
56	AV-AIS-1	ALEXAMPLE VINDLES LUCKOPHANE SYSTEM. NO SELECTABLE PROJUBICIOS, RADO PRECIDENT PRANCE OF ATTO NA NEW, DURA ANTERNA OVERSTIT, AUDIO FREGUENCY FREGUENCY REPORT PROGRAMMY RESPONSE OF 20% TO 1940%. THO-103%, BAUANZE AUDIO DUTPIT VA JURI CONNECTOR, RACK MONITABLE, PCC COMPUNENT AND LULSTED, PROVIDE ONE (1) SYSTEM WITH LAVALER OVERSION MONITARY PROGRAMMY PROVIDED HIS PROVIDED HIS PROGRAMMY AND PROGRAMMY PROGRAMMY PROVIDED HIS PROGRAMMY AND PROGRAMMY PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMMY PROGRAMMY AND PROGRAMY AND PROGRAMMY AND PROGRAMMY AND PROGRAMMY AND PROGRAMY	SHURE ULX-P SENNHEISER LECTROSONICS	
57	AV-PS-1	AUDIONIDED POWER STRIP, RACK MOUNT, 1 RU, TWO PULL DUT 120/ LAMPS 120/AC69H, 6 CORD 15 AMP RATING, 176 JOULES, 8 REAR MOUNTED CUTLETS, 1 FRONT OUTLET, SURGE PROTECTION, NOISE FILTRATION.	FURIMAN MBLX UR PRE-APPROVED EQU	
58	AV-SP-1	AUXOMOGO SPEAKER CEILING MIOLNT, 6.5" WOOFER 1" TWEETER 120" COVER ANALE. 9168 SENSITIVITY, 1108 @ JIN SPL. FREGUENCI 7314-37042. POWER CAPACITY 150W CONTINUOUS PROSPAKE, 75 WATTS PIPK NOISE, 8 OHN, PROVIDE WITH TILE BREIGE, GRILLE AND RECOURCE BROCK CAN.	JBL DONTROLATOIT OR PRE-APPROVED ECK	
59	AV-AMP-1	ALIDAMDED ANFIJERER, TWO CHANNEL, EACH CHANNEL, 120W@S CHINS, RPUTS BALANCED DESCRIPTION OF THE PROPERTY OF TH		
60	AV-V8P	VENTED BLANK PANEL, 2 RU.		
81	AV-MIX-1	EIGHT CHANNEL AUTOMATIC DIGITAL MARE WITH DANTE DIGITAL AUDIO, PREGUENCY RESPONSE 20/2 TO 256/2, AUDIA CONVERTIE: 24-BIT, 48/6/2, 11208 DYNAMIC RANGE, 22-BIT INTERNAL PROCESSING, DUAL PORT GIGABIT ETHERNET.	SHURE SCMB204DAN NO SUBSTITUTIONS	
62 -	AV-MC-DA	AUDIOVIDEO WIRELESS MICROPHONE ANTENNA DISTRIBUTION AMPUPIER. ONE PAIR OF UHF ANTENNAMPUTS, FOUR PAIR OF UHF ANTENNA OUTPUTS AND FOUR LOWYOUT AGE POWER OUTPUTS, PROJUCE WITH MECESSARY PATCH CABLES FOR ANTENNA AND POWER CONNECTIONS.	SHURE LIABASWE SENNHEISER LECTROSONICS	
53	AV-ANT-W	ALDIOVIDEO WIRELESS MICROPHONE SYSTEM ANTENNA, 1/2 WAVE ANTENNA, OLIN-LIRIEGITONA, PASSIVE, 50 OHM IMPEDANCE, PROVIDE COMPLETE WITH WALL MOUNTING ACCESSIONES.	SHURE UASZO SENNHEISER LECTROSONICS	
64	<u>AV-MIC-C</u>	AUDIONIDED VIDEOCOMPERENCE MICROPHONE ARRAY. CELLING MOUNT, OMN-DIRECTIONAL, FREDUENCY RESPONSE UPTO 22KHz, PROVIDE WITH CEILING MOUNT ENCLOSURE.	POLYCOM 2200-23809-001 NO SUBSTITUTIONS	
65	AV-982-1	FLAT PANCE, BACK SAX, 7,87° X 7,97° X 3,37°, TWO SHOLE GANG OPENING TWO ISTATION SHOULD SHOW OPENING. PROVIDE WITH COVER RETALL AT +66° UNLESS KOYED OTHERWISE ON FLAN.	HJBBELL NSAVEZM COYER NSAVEC OR PRE-APPROVED ECK	
56	RS-RAT-1	RADIO AMTENIA, BISERDIMEZ BAND, VERTICAL POLARIZATION WITH 48 DEGREE VERTICAL BEAMMOTH, 134 MEN HIMIO SURVIVAL 100M MAJRIUM POWER INPUT, PROVIDE LIGHTNING PROTECTION PER MANUFACTURER'S REQUIREMENTS.	CELLULAR SPECIALTIES CSI-AY/808-980011 NO SUBSTITUTIONS	
67	RS-RAT-2	VHFRADIO ANTENIA, 150-158 NHZ BAYD, HORZENTIAL OR VERTICAL POLARIZATION, 125 MPH YMD SURNIYAL, JOHN MAJIMM POWER INPUT, PROVIDE LIGHTINING PROTECTION PER MANUFACTURER'S REQUIREMENTS.	COMTELCO Y3315A-8 ND SUBSTITUTIONS	
58	RS-RAT-3	RACIO ANTENNA, SIG-AGE MAZ BAND, 360 DESPREE HORIZONTAL BANDMIDTH, 22 DEGREE VERTICAL BANDMIDTH, 100 MPH WIND SURVIVAL, 150M MAJUMUM POWER INPUT, PROVIDE LIGHTNING PROTECTION PER MANUFACTURER'S REQUIREMENTS.	PCTEL 11601165 MF8-6565 NO SUBSTITUTIONS	
59	RS-RAT-4	VHF RADIO ANTENNA 190-198 IME: BAND, VERTICAL POLARIZATION (VITH 40 DEGREE VERTICAL BEAMMOTH, 125 MPH VIND SLRVIVAL ZOW MAXIMUM POYER INFUT, PROVIDE LIGHTINING PROTECTION PER MANUFACTURIER'S REGUIREMENTS.	COMTELCO BS150XL3-B NO SUBSTITUTIONS	
70	[C-151	SIP SHABLED IP INTERCOM STATION. AUTOMATIC VOLUME ADJUSTMENT AND BACKGROUND NOISE CANCELLATION, STANLESS STEEL, FRONT PLATE WITH HORE BUTTON, SPLIG 1914 HOPEN DUPLES, MIGH, FUNDHIGTION ST. REGIOENCY PARKED STON-TOWNER, OF REALE PICE, PICE ARADIN-I COMPUNIANCE, PROVIDE WITH TA-1 TURBINE COMPACT SURFACE MOUNT BACK BOX STEPHOFORY INDIGNOSIONAL ORDER OF THE STANDARD STANLES AND S	STENTOFON TURBINE TOIS-2 OR PRE-APPROVED EQU	
71	AG-SEG-2	ACCESS CONTROL ELEVATOR CONTROL PANEL REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION AND MODEL NUMBER.		
72	BS-PF-1	RADIO SYSTEM POLYPHASER, REFER TO SPECIFICATION SECTION 27 22 43 FOR COMPLETE INFORMATION AND MODEL NUMBER.		
73	RS-PP-1	RADIO STSTEM PATCH PANEL, REQUIRES (2) 1.75° RACK MOUNTING SPACES, REFER TO SPECIFICATION SECTION 27 32 43 FOR COMPLETE INFORMATION AND MODEL NUMBER,		
74	RS-RAT-1	RADID ANTENNA, 895-855 MHZ, FIBER GLASS, OMN-DIRECTIONAL, 150 WATT UNITY GAIN, REFER TO SPECIFICATION SECTION 27 32 43 FOR MORE INFORMATION.	LAIRD TECHNOLOGIES SMARS	
75	RS-HAT-Z	RADIO ANTENNA, 139-168 MHZ VHF GROUND PLANE DMN-CARECTIONAL ANTENNA, REFER TO SPECIFICATION SECTION 27 32 43 FOR MICRE INFORMATION.	PANORAMA ANTENNAS BS-IN1796	
78	RS-RAT-3	RACIO ANTENNA, 506-695 MHZ OMNI DIRECTIONAL, 5-68 GAIN, VERTICAL POLARIZATION, REFER YO SPECIFICATION SECTION 27-32-43 FOR MORE INFORMATION.	AMPHENOL ANTENNA SOLUTIONS BCD-7504-EDIN-0	
77	RS-RAT-4	RADIO ANTENNA, 450-410 MHZ UHF DIRECTIONAL, GOLD ANDOIZED, 7.1 45 GAIN, 300 WATT, REFER TO SPECIFICATION SECTION 27 32 43 FOR MORE INFORMATION.	LAIRD TECHNOLOGIES Y4503	
78	RS-FR-1	YYALL SYNNO FRAME CABINET, 36"HA 21"W X 18"D, 16" CENTER MOUNTING, 3" DEEP RACK UPRIGHTS UNIVERSAL SPACING, OPEN EQUIPMENT ACCESS, TOLLLOAD CAPACITY, DURABLE BLACK POY/DER COATING, PROVIDES [21] 1,75" MOUNTING SPACES.	HUBBELL HPWWMR36 GREAT LAKES INC. CHATSWORTH PRODUCT	



milwauker 333 East Chicage Street
Milwauker 133 East Chicage Street
Milwauker Wisconsin 53020
Milwauker Wisconsin 53020
Milwauker Wisconsin 53020
Milwauker Wisconsin 53703
Milwauker St Mi



EJDR ENGINERING, INC.

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) D Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

C REVISIONS
DATE DESCRIPTION

KEY PLAN

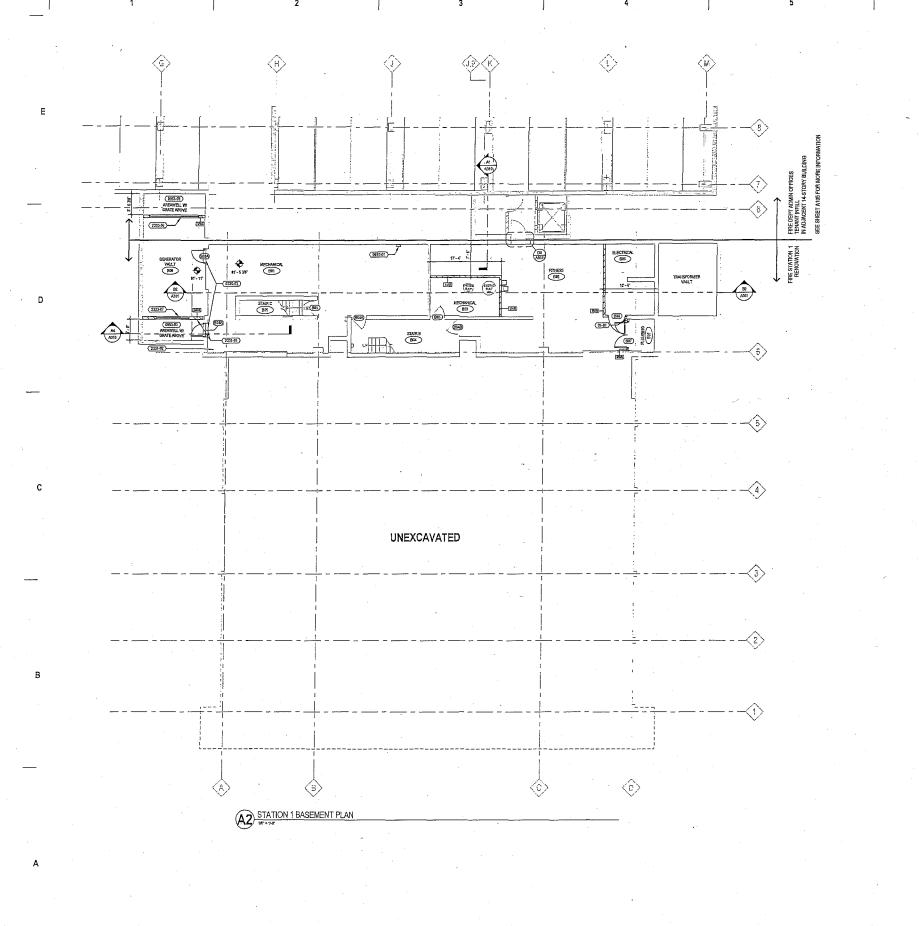


SHEET INFORMATION

PROJECT MANAGER	CG
PROJECT NUMBER	12149
DATE	01/09/2015

SCHEDULES -TECHNOLOGY

T601



KEYNOTES PER SHEET ALIGN

NEW CONCRETE THRESHOLDS & ABOVE ADJACENT GENERATOR VALLY
CONCRETE SUAS, SEE STRUCTURAL DRAYINGS FOR ADDITIONAL
MICROBIATION INFORMED GALVANIZED METAL PLOOR GRATING OVER GENERATOR VALLT RYPLTHUSE PROUNTED.

CONDINATE GENERATOR EXHAUST LOCATION AND WALL PENETRATIONS

CLEANING GENERAL NOTE

FLOOR PLAN GENERAL NOTES



eppstein uhen : architects

mileauket 133 Earl Chicago Street Mileauket Wisconsin 53202 M 444 271 5326 fax 444 271 5734 madisan 222 West Westgon Across 650 M 461 on, Wisconsin 53703 M 600 AC 2570 (a), 600 442 6660

FINGING INC.

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
DATE DESCRIPTION
1 DESCRIPTION
1 DESCRIPTION

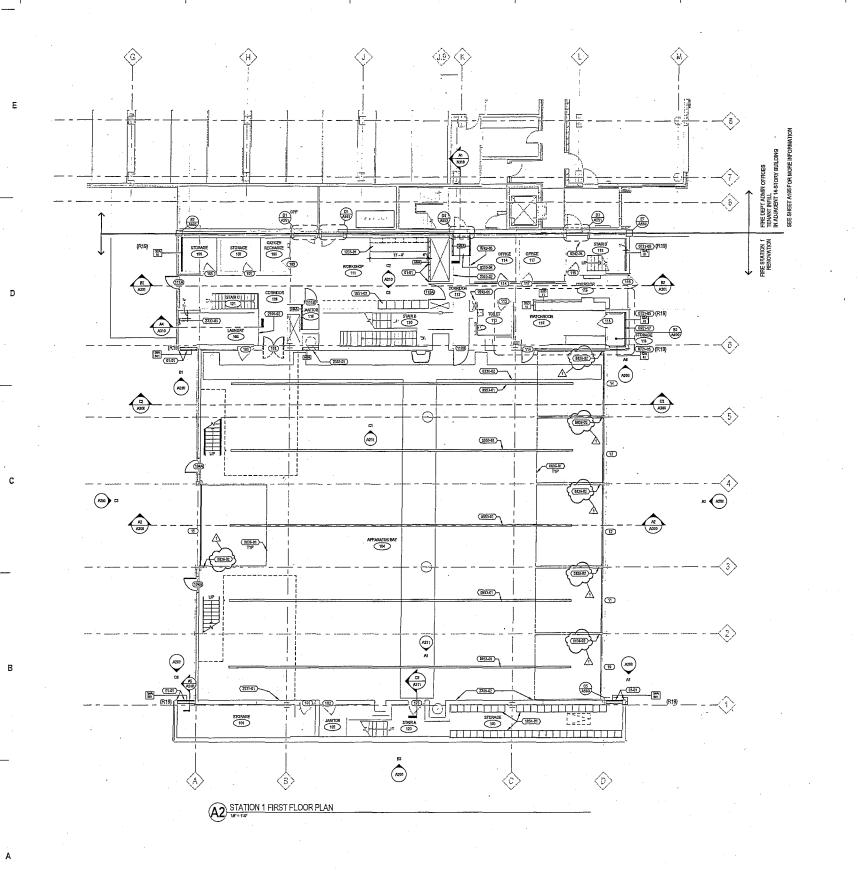
KEY PLAN

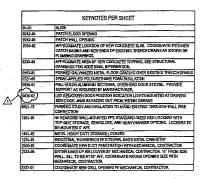


SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 DATE 01/09/2015

FIRE STATION 1 BASEMENT FLOOR





CLEANING GENERAL NOTE

ALL EXISTING FIXTURES, FITTINGS, R.COR AND YIALL SURFACES IN EVERY ROOM OSTATION FOR INCT REQUIRING NEW PAINT OR SURFACINGS SHALL BE THOROUGHLY AND, WHERE APPROPRIATE POLICIPED USING Q.EANING AGENTS AND METHODS DESIGN THE DATA IN LIVE DEM APPREABANCE.

FLOOR PLAN GENERAL NOTES

ALL CAN EXPOSED TO BODAS IN FIRE STATION AT SHALL BE STAZE BOND.
 TENETHY ACTION LIDE THE STAZE BOND STREETHY SEED AND STATEMENT SEED AND STATEMENT SEED AND STATEMENT SEED AND STATEMENT SEED AND SHALL HEN SEAL AND A PRESENT IT DOOR PARILES SHEETE ENSITING SEED AND THE SHALL HEN SEAL AND A PRESENT SEED AND THE STATEMENT SEED AND THE SHALL HEN SEED AND SHALL HEN SEED AND SHALL HEN SEED AND SHALL HEN SHALL HEN SEED AND SHALL HEN SHALL HE



1 15

eppstein uhen : architects



DIDR BEET

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS

DATE DESCRIPTION
1 PRINCEPS ADDEDUM 1

KEY PLAN

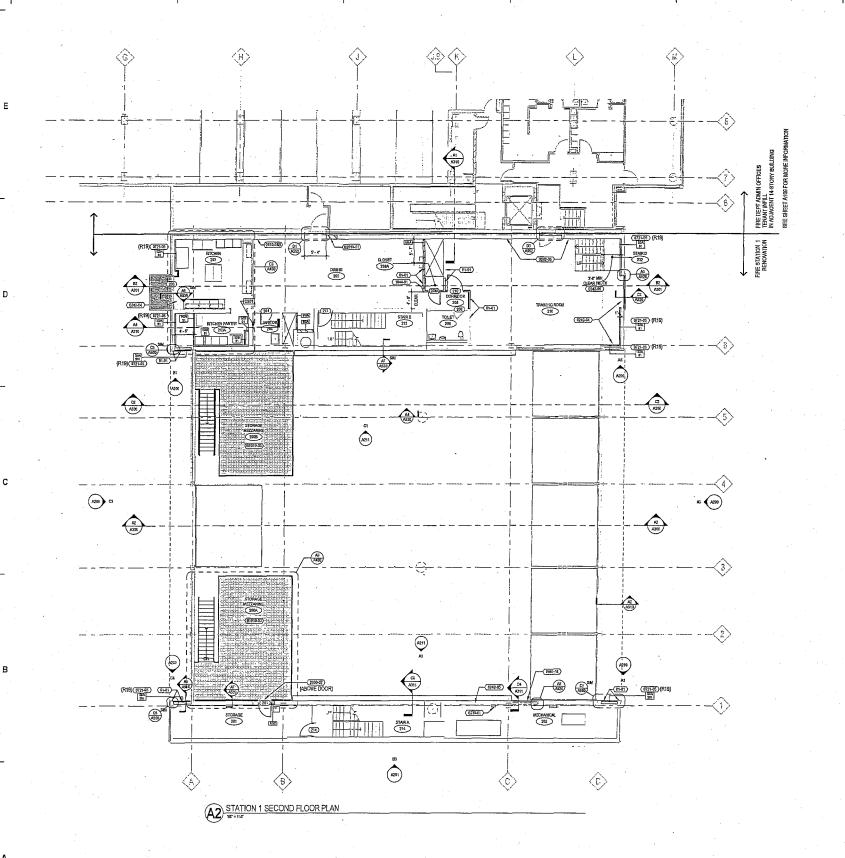
С



SHEET INFORMATION

PROJECT MANAGER CG 12149 PROJECT NUMBER

FIRE STATION 1 FIRST FLOOR PLAN





CLEANING GENERAL NOTE

ALL EXISTING FOTURES, FITURIAS, PLOOR AND WALL SURFACES IN EVERY ROOM OF STATIONIN' NOT REQUIRING NEW PAINT OR SURFACINGS SHALL BE THOROUGHLY CL AND, WHERE APPOPRIATE, POLISHED LISING CLEANING AGENTS AND METHODS RESULTING IN ALIKENEW APPEARANCE.

FLOOR PLAN GENERAL NOTES

AL CAM EPOSED TO ROMAS IN FIRE STATION IT SMALL BE STACK BOILD.
 STEMEN MACE SMALL BETTING SMAL PORTUGES BOYCH SHERIPMEN SEE WHAT THEY AGE.
 INSTALL HEN SEALANT AT PREASEST FLOOR PANELS WHERE EVISTING SEALANT WAS REMOVED BY WAYAROOUS MATERIALS CONTINUOUS.

ACCESSORY SCHEDULE			
TAG	DESCRIPTION		
SM	MOP AND BROOM HOLDER, 3-HOOK 24"		
ISW	ROBE HOOK -		
HD1	SHOWER CURTAIN ROD AND HOOKS		
YY02	24' TOWEL BAR		



eppstein uhen: architects

3.3.3 Ensi Chicago Streel
Milly Rubket, Wisconsin 52022
M 414 27: 5350 ftm 414 27:17794

Madison 222 West Published Medison, William 100 Att 5350

DIDR BEE

PROJECT INFORMATION

Fire Station
Administration Office
Building and Fire
Station No. 1
(Hovde Properties
Tenant Improvements)

Contract No. 6891
316 West Dayton St.

Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
DATE DESCRIPTION
1 01/302015 (ADDENDUM 1

KEY PLAN



SHEET INFORMATION

 PROJECT MANAGER
 CG

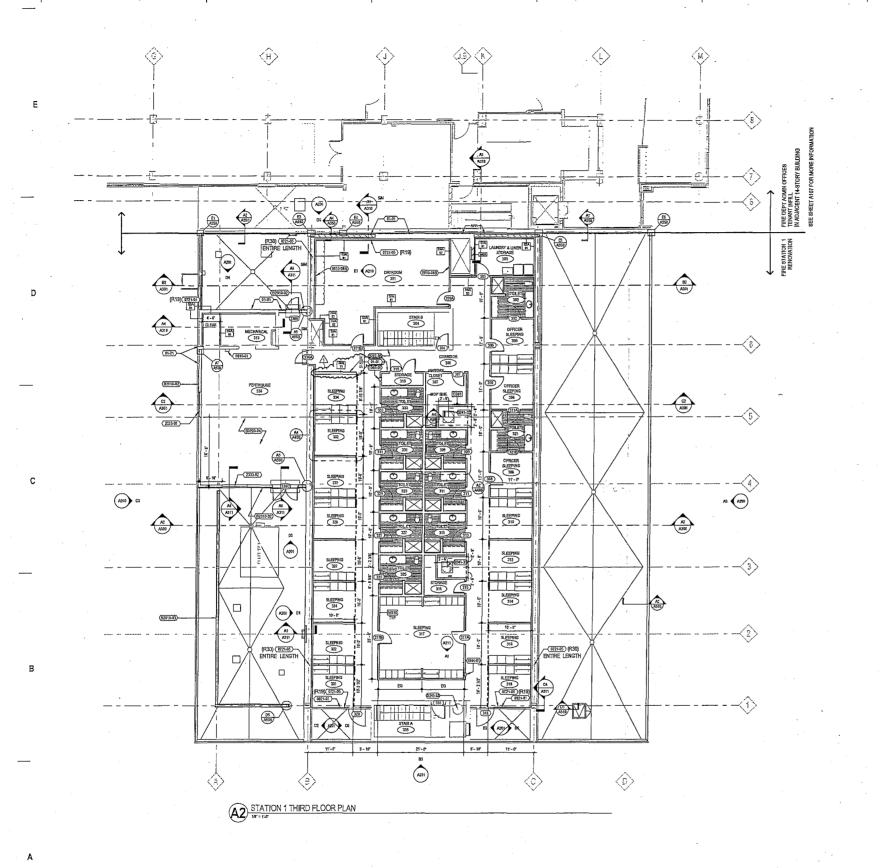
 PROJECT NUMBER
 12149

 A
 DATE
 01/09/2015

FIRE STATION 1 SECOND FLOOR PLAN

A102

© Experien Upon Architects, Inc.



KEYNOTES PER SHEET REMOVE AND REPURBISH EXISTING PLOOR HATCH, HANDRAL, & HARDWARE FOR REINSTALLATION

PATCH WALL DPENING

3N° PI YNDOO BACKING PANS. COORDINATE SEE AND LOCATION WITH ECUPAGIN' TO BE MOUNTED,

SAY PLYMOOD BLOCKING FOR WALL-MOUNTED MONTOR COORDINATE SIZE FCESSED FIRE EXTINGUISHER CABINET OF SIME.

TIPODOR HIS WITHOUTHER BY MECHANICAL CONTRACTIOR. SILL TO BE AT 10F ON THE PROJECT YES 1/2 AFF BROWE THEN D.CORT.LEYEL COORDINATE OURSE OPERATES SIZE WITH MECHANICAL CONTRACTIOR. TO THE TURN ARE DISCHARGE LOWER BY MECHANICAL CONTRACTIOR. SILL TO BE TO AFF REQUESTLY 25' ABOVE THEM DE DOOR LEYEL, COORDINATE ROUGH

CLEANING GENERAL NOTE

FLOOR PLAN GENERAL NOTES

ACCESSORY SCHEDULE DESCRIPTION MOP AND BROOM HOLDER, 3-HOOK 24" ROBE HOOK SHOWER CURTAIN ROD AND HOOKS 24 TOWN BAS



eppstein uhen : architects

DIDR EST

PROJECT INFORMATION Fire Station

Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

KEY PLAN

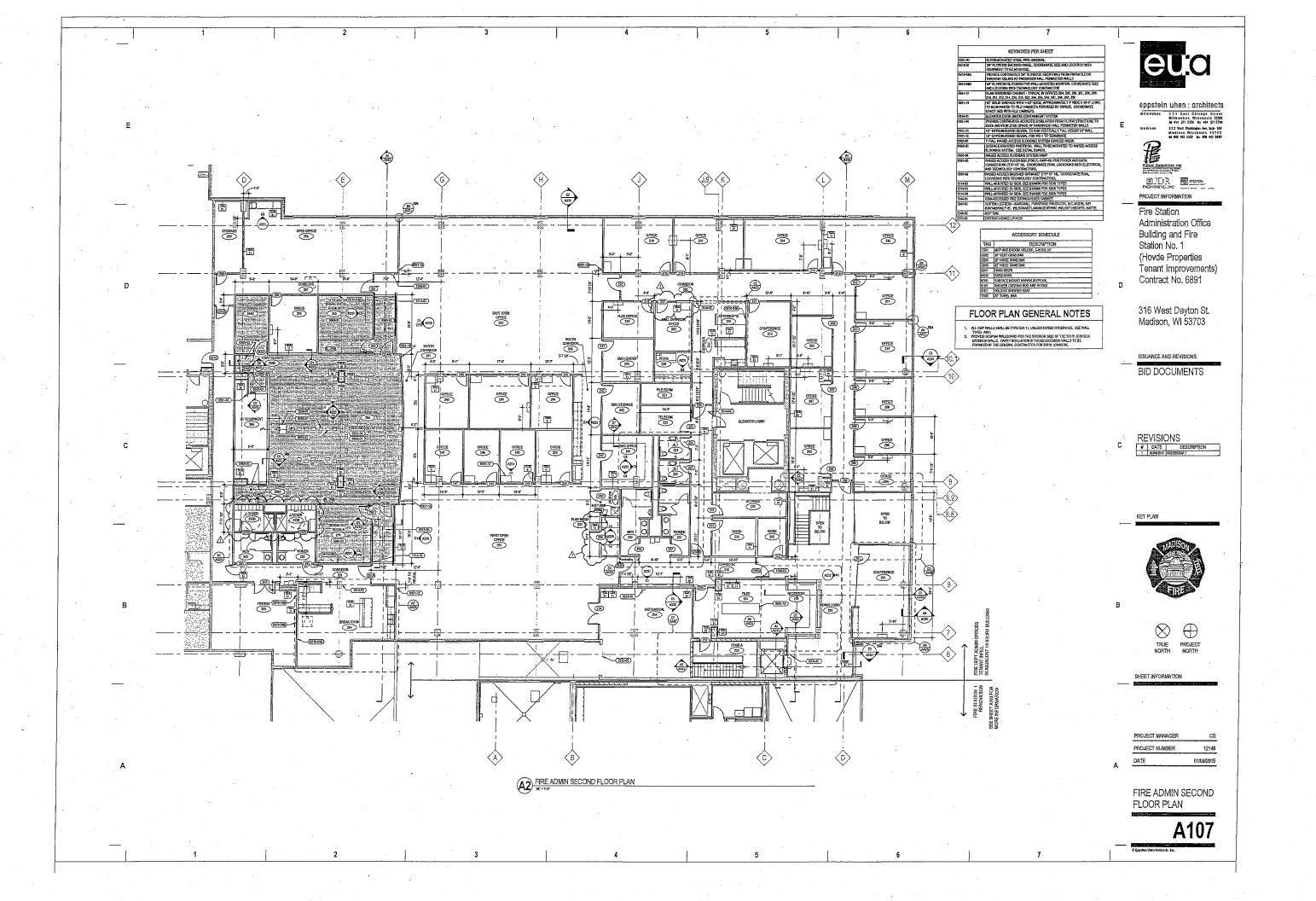
С

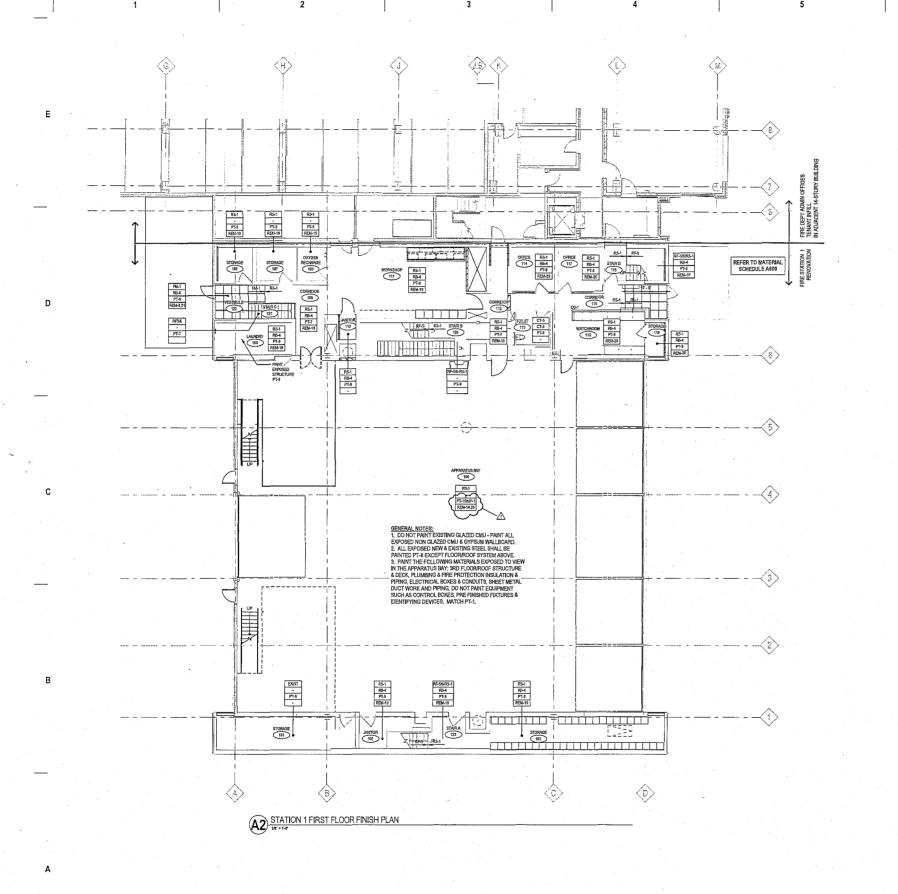


SHEET INFORMATION

PROJECT NUMBER 12149 01/09/2015

> FIRE STATION 1 THIRD FLOOR AND PENTHOUSE PLAN







CLEANING GENERAL NOTE

BDStein uhen : architects
milwaukee
33.5 East Chirage Sirest
Milbaukee, Wisconin 53000
th 44 27 535 a.4 42 21779
madison
222 West Nedengian Ave. Suis 650
Medison, Wisconin 53793
to 504 42 335 to 188 44 24 575

Ε

EJDR ESSE

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
| DATE | DESCRIPTION | 1 | DIGEORGES | ACCEMPANT |

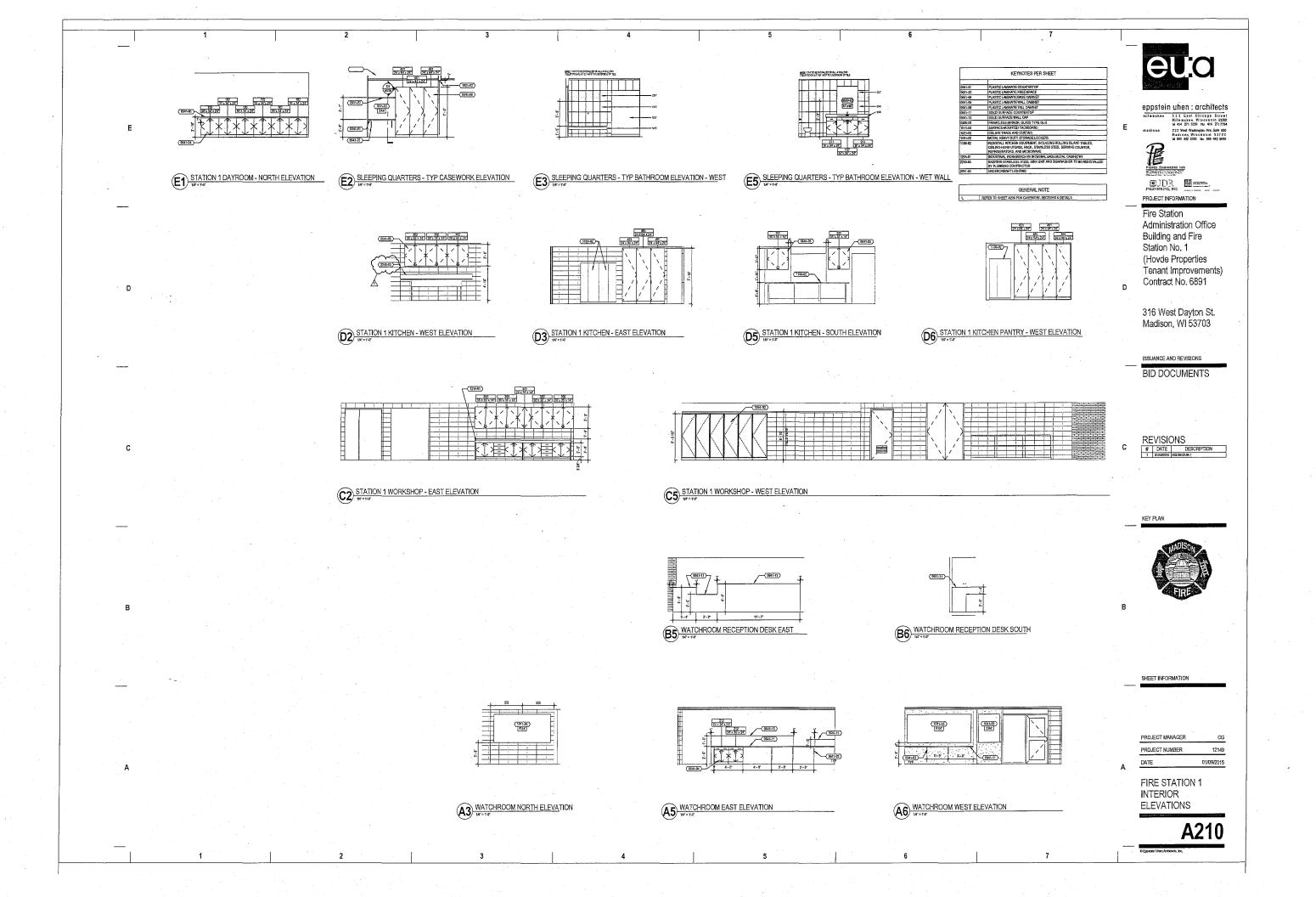
KEY PLAN

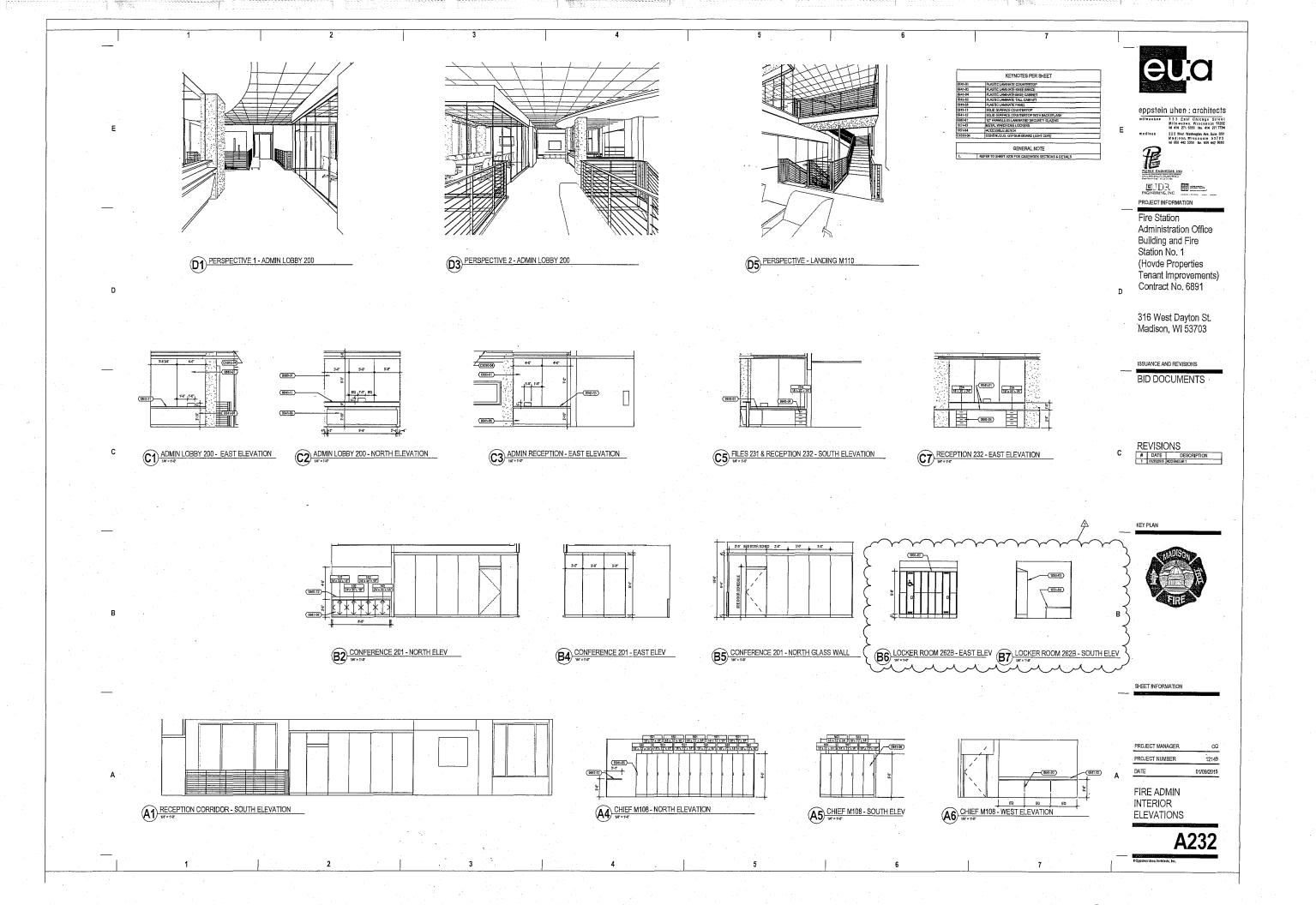


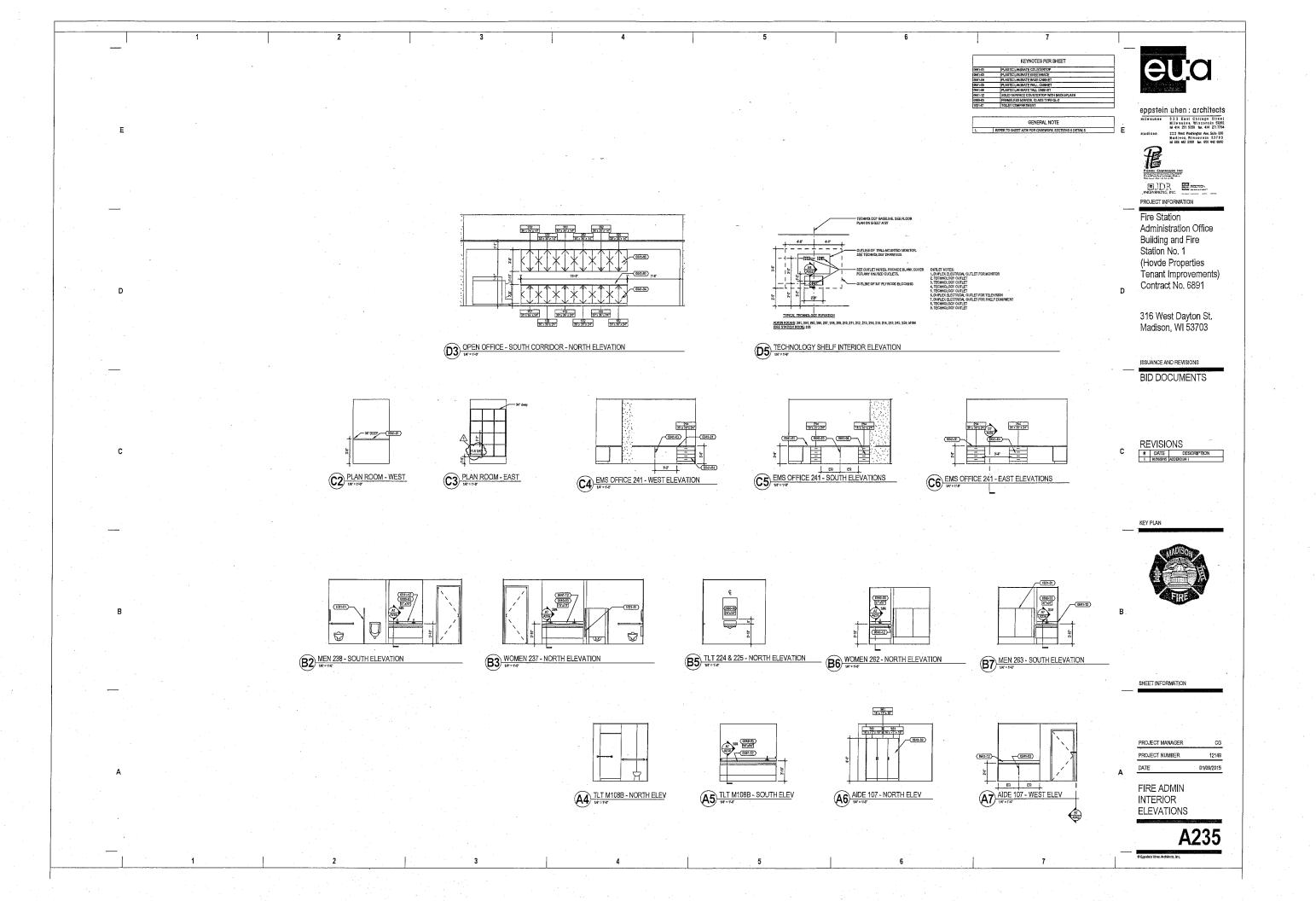
SHEET INFORMATION

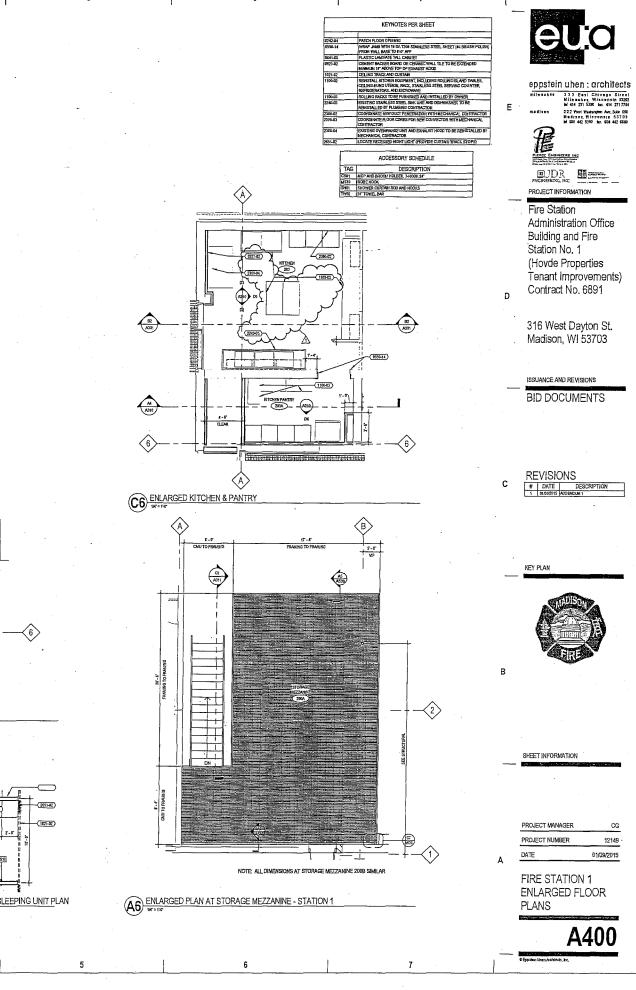
PROJECT MANAGER PROJECT NUMBER 12149 DATE 01/09/2015

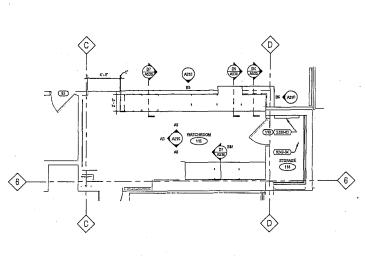
> FIRE STATION 1 FIRST FLOOR FINISH PLAN





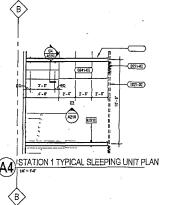




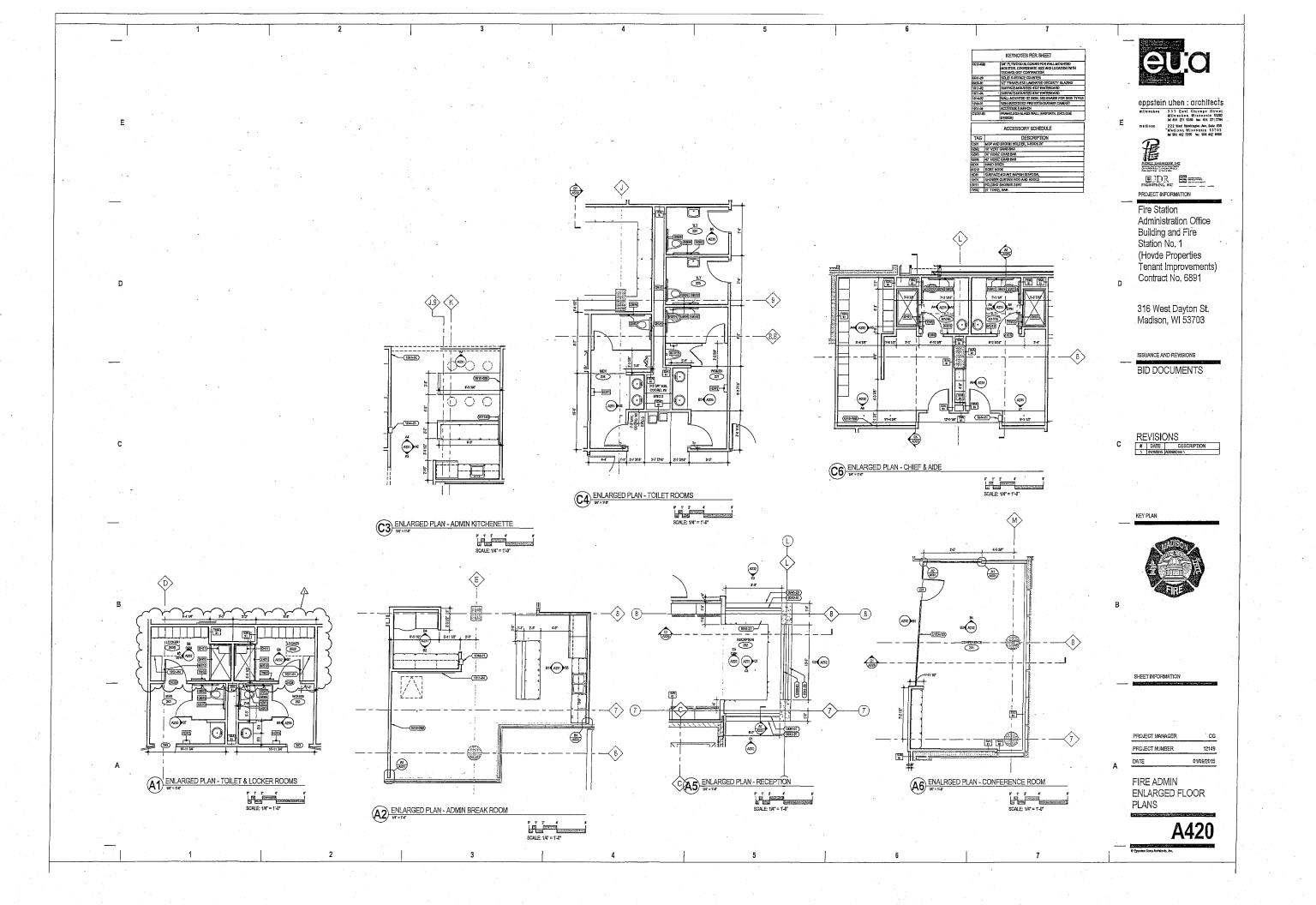


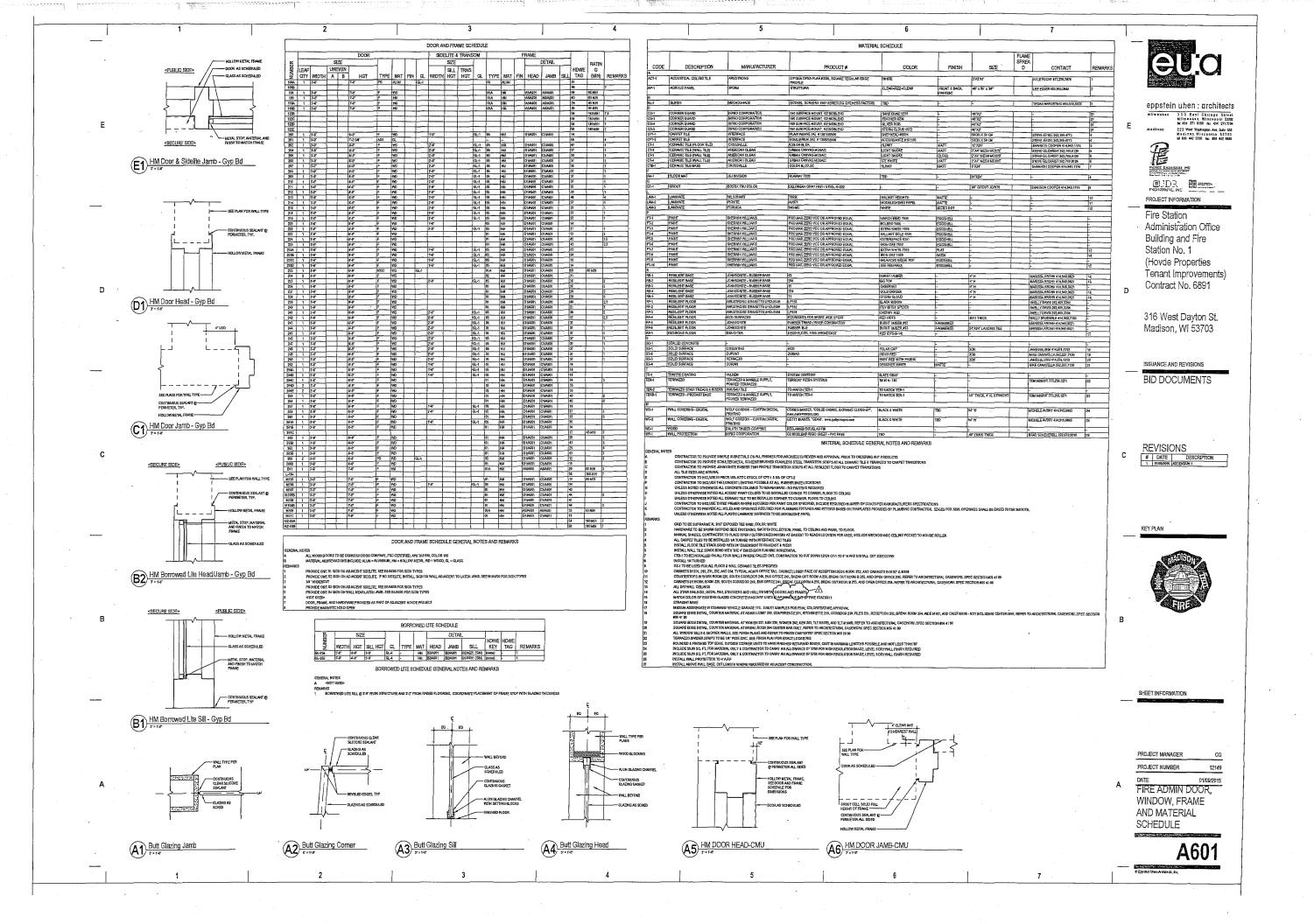
B3 ENLARGED WATCHROOM

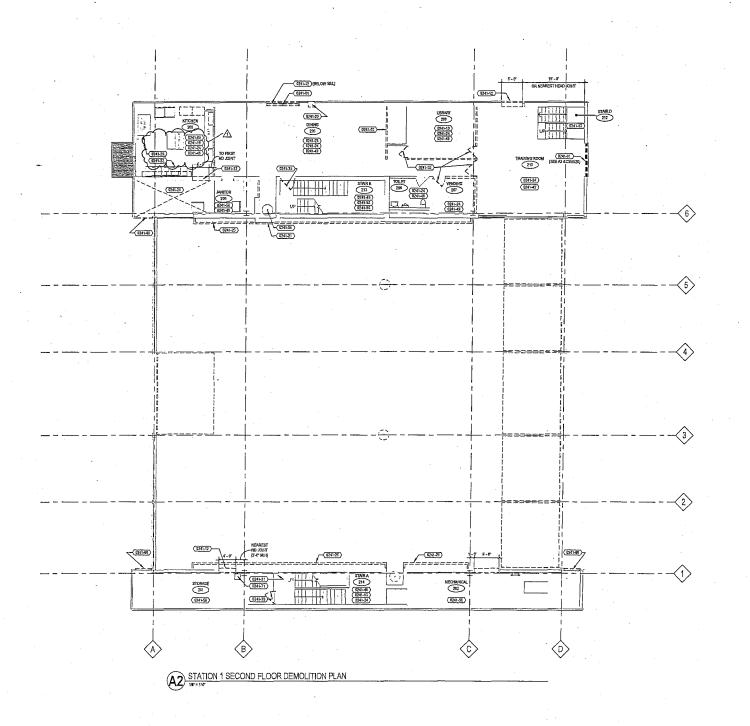


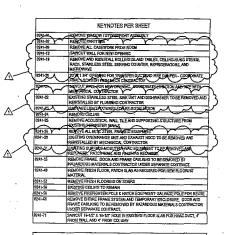


A4 ISTATION 1 TYPICAL SLEEPING UNIT PLAN









DEMOLITION GENERAL NOTES

DASHED ELEMENTS TO BE DEMOLISHED / REMOVED UNLESS NOTED OTHERWISE.
 SEÉMECH, ELECT, A FLUMB DRAWNINGS FOR ADDITIONAL DEMOLITION INFORMATION.
 ENSTING MAZARODUS MATERIALS TO BE REMOVED BY MAZARODUS MATERIALS.
 CONTRACTOR UNDER SEPARATE CONTRACT WITH THE CITY OF MANDISON.



eppstein uhen: architects
milwauhee 333 East Chicago Street
Milwauhee Wisconshi 273794
M 444 27 5356 for 416 2717794



EJDR ENGINERALIS

Fire Station
Administration Office

Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
DATE DESCRIPTION
1 DESCRIPTION
1 DESCRIPTION

KEY PLAN



SHEET INFORMATION

 PROJECT MANAGER
 CG

 PROJECT NUMBER
 12149

 DATE
 01/09/2015

FIRE STATION 1 SECOND FLOOR DEMOLITION PLAN

AD102

									M	OT	ЭR	WIF	RING	SC	HE	DU	LE							
			Α	BBRE	VIATION	S: BOL = BULT-IN OVE MAG = MAGNETIC S MAN = MANUAL STA	TARTIER	VFD RVS 25P	= VARIA = REDU = 2 SPE	BLE FRE	TAGES	TARTER	NU:	= IN UNIT = NEAR U	NIT	DS :	= DISCON	NATION STA		,	C = ME	CH. CONTE	RACTOR	
N	JML.	LOAD	VOLT	PHASE	LOC.	. DRIVER .	_	D FROM CKT		POLE	NO.		ORAD.	COND.	HEM	STA	RTER WIRL		SIZE	POLE	DISC, WIR	ING BY	LOC.	NOTE
ĘΓ	-	25%P	208	3	911	ELEVATOR -	MOP	·	100	3	3	3	8	1-1/4"	<u> -</u>	·		-	100	3	DS	EC	B11	4
L	-	265W	120	1	B11	CEF-1	8/A		20	1	2	12	12	34*	Ŀ	<u> </u>			30	2	DS	EC	B11	11
H	-	7.5HP	208	3	B01	P-1 P-2	8/8	1,3,5	50	3	3	-	10	1	ŀ	VFD	MC	BOI	-	-	 -	1	 - -	-
H	-	7.5HP 7.5HP	208	3	1901	P-2	B/B	7,9,11	50	3	3	8	10	T*	ŀ	VFD	MC	B01	-	<u> </u>	-	:-	+-	-
H	-	7.5HP	206	3	801	P4	B/B B/B	13,15,17	50 50	3	3	-	10	-	H	VFD	MC	B01	 	<u> </u>	-	+	+-	<u> </u>
H	-	134	120	1	B01	B1	8/9	41	20	1	2	12	12	347	Ι.		-	1	30	2	DS	EC	801	
Н	-	134	120	1	B01	B-2	88	2	20	+-;	2	12	12	340	-	 	+-	+	30	2	DS	EC	BOS	-
1	, 1	1.5 HP	208	3	104	OVERHEAD DOOR OPERATOR	VARIES	VARIES	15	3	3	12	12	34"	-	-	│	<u> </u>	30	3	DS	EC	104	7
١,	_	1.BHP	120	1	110	UH-1	1/A	37	20	1	2	12	12	34"	-	-	-		30	2	DS	EC	150	-
ļ,	1 1	1/2 HP	120	1	ROOF	F-1	3//A	33,35,37	20	1	2	12	12	3/4"	-	-	-	-	30	2	DS (SR)	EC	ROOF	-
1	2 .	1,5HP	208	3	B01	P-6	8/8	31,33,35	15	3	3	12	12	3/4"	-	cs	EC	901	-	•	-		-	6
1	3	1,0HP	208	3	110	VEF-1	1/A	49,51,53	15	3	3	12	12	347	æ	cs	EC	110	F-	•	-		_	12
1	٠Ĺ	21A	208	1	M111	AC-2	A2/C	51,53	25	2	2	12	12	347	-			·	30	2	DS	EC	M111	1
1	5	S.1A	208	э	M110	MAU-1	2/A	17,19,21	15	3	3	12	12	347	0	cs	EC	M110	-	٠	-	٠	-	7
1	_	21A	208	1	ROOF	ACCU-2	A2/C	51,53	25	2	2	12	12	3/4*	· ~	-	Ŀ	Ŀ	30	2	DS (3R)	EC	ROOF	<u> </u>
1	+	314A	208	3	B01	CH-1 (E)	MOP	<u> : </u>	400	3	(2)3	(2) 3/0	(2) 3	122	-	<u> </u>	·	·	400	3	DS	EC	B01	6
1	+	91/2HP	208	3	803	SP-3	B/A	13,15,17	15	3	3	12	12	34*	-	<u> </u>	-	·	30	3	DS	EC	803	13
ľ		1/3HP	120	1	B03	55-2	B/A	19	20	1	2	12	12	3/4*	-		<u> </u>	<u> - </u>	30	2	DS	EC	BCS	13
2		1/8HP	120	1	901	ина	8/8	37	20	1	2	12	12	34		<u> </u>	<u> </u>	ļ -	30	2	DS	EC	B01	
2	-	1/2HP	120	1	104	UH-4	2/8	0	20	1	2	12	12	3/	1	-	-	ļ.	30	2	DS	EC	104	<u> </u>
2		1/2HP	120	1	104	UH-5	2/8	11	20	1	2	12	12	3/4"	Ŀ	<u> </u>	<u> </u>	-	30	2	DS	EC	104	
2		1/2HP	120	1	104	UH-6	2/8	13	20	1	2	12	12	3/5	-	-	<u> </u>	ļ. <u>.</u>	30	2	DS	EC	104	<u> </u>
2		1/2HP	120	1	104	UR-7	2/8	15	20	1	2	<u> </u>		34		٠.	<u> </u>	-	30	- 2	DS	EC	104	-
2	-	1/2HP	120	1	104	UH-8	2/8	17	20	1	2	12	12	3/5	-	-	-	٠	30	2	DS	EC	104	
2	_+	AC. HP	120	1	106	CUH3	1//	19 32,34,36	20	1	3	12	10	34	-			-	30	2	DS	EC	106	-
Z	+	7.5HP	208	3	338	RF-1	3/A		50	3 -	3			1"	-	VFD	MC	336			-	<u> </u>	-	
2	-	10HP	208	3	336	AHLH	3/A	38,40,42	50	_			10	1°	_	VFD	MC	336	-		· .	<u> </u>	<u> </u>	-
2	+	11.1A	208	3	336	ERV-1	3/A	25,28,30	30	3	3	10	10		-	VFD	MC	336		<u> </u>		<u> </u>	-	-
30	+	35A 1/4HP	208	3	ROOF	ACC-1 (E)	3/A B/B	11,13,15	20	1	2		10	1" 34°	-	-	<u> </u>		. 60 30	3	DS(3R)	EC	ROOF	13
3	-	_	120	1	BOB	SE-1		-		-	_	12	12	34"	-		-	· -	30	2	DS(3R)	EC	223	
3	+	21A	205	1	223		3/A	29,31	25	3	3	12	12	34-	-		MC MC	234	50	3	DS			1
3		SOHP 25HP	208	3	ROOF 234	RF-2	DP/A	1,3,5	100	3	3	3	10	1-1/4"		VFD VFD	MC	234	-		DS(3R)	EC .	ROOF	-
35	-	684	208	3	234	ERV-2	DP/A DP/A	7,9,11	30	3	3	10	10	3/4"	-	VFD	MC	234	-	<u> </u>	-	<u> </u>		-
34	-	MHP	120	1	234	UH-2		1	20	-	2	12	12	3/4"					30	2	DS	EC	234	
\vdash		LOHEP	208	3	B01	P-S	A2/C B/B	25,27,29	15	3	3	12	12	34		CS	EC	B01	-	÷		-	-	
3/	-	AC. HP	120	1	B01	SOLAR PUMP (E)	вла	43	20	-		12	12	34"	-	-		-	30	2	DS	EC	801	-
34		MHP	120	1	108	EF-2	1/A	15	30	1	2	10	10	34	- 1	-	-	-	30	2	DS	EC	107	
46	-	3.6W	120	1	200	DES	AZIC	59	20	1	2	12	12	34		-			30	2	D\$	EC	200	
41		AC.HP	120	1	B01	GP-1	8/8	39	20	- 1	2	12	12	34	-	-		-	30	2	DS	E¢	BO1	-
40		/ЗНР	120	1	B11	SP-1	BIA	11	20	1	2	12	12	340	-	-			30	2	DS	EC	B11	10
43	+	MHP	120	1	203	GARBAGE CX5POSAL (E)	2/A	25	25	1.	2	12	12	3/4"	-	-	-	-	30	2	DS	EC	215	6
4	1	ИНР	120	1	808	UH-13	8/8	37	20	1	2	12	12	3/4"	-		-		30	2	DS(3R)	EC	B08	
45	11	ень	120	1	107	UH-9	-1/A	17	20	-1	2	12	12	3/5	-	-			30	2	DS	EC	107	
46	1	NSW	120	1	104	DF-1	2/8	19	20	1	2	12	12	34"	-	.	-	- 1	30	2	DS	EC	104	5
47	١,	NSW	120	1	104	0F-2	2/6	19	20	7	2	12	12	3/4"	•	-	-	$\overline{}$	30	2	DS	ĒC	104	5
48	١.	MSW.	120	1	104	DF-3	26	21	20	1	2	12	12	3/4"	-		-	-	30	2	DS	EC	104	5
49		NOW	120	1	104	DF-4	2/8	21	20	1	2	12	12	34"			-		30	2	DS	EC	104	5
50	1	RHP	120	1	202	UH-11	2/9	1	20	1	2	12	12	34	\cdot	-		- 1	30	2	DS	EC	202	
51	1/	анР	120	1	201	UH-10	2/9	1	20	1	2	12	12	3/4"	-]		-		30	2	DS	EC	201	-
52	1/	PEHP	120	1	M11D	UH-12	2/4	23	20	1	2	12	12	3/4"	- 1	. ·	-	•	30	2	DS	EC	M110	•
sa	1/	внр	120	1	236	UH-14	3/A	24	20	1	2	12	12	34"	•	-	•		30	2	DS	EC	336	
54] 2	25A	208	1	ROOF	ACCU-!	3/A	29,31	25	2	2	12	12	3/4"	-		-]	-	30	2	DS (3R)	EC	ROOF	•
56	1/	ане	120	1	B08	SP-2	8/8	37	20	1	2	12	12	34"	·	-	-	•	30	2	DS (3R)	EC	B08	13
56	+-		120	1	B01	WATER HEATER (E)	B/B	30	20	1	2	12	12	3/4"	-	• [-	- (360	2	DS	EC	B01	6
57	+		120	1	115	CUH4	111.	1	20	1	2	12	12	3/4"	-		-	·	30	2	DS	EC	115	
58	-RA	AC.HP	120	1	101	CUH-1	1/8	24	20	1	2	12	12	34-	-	-	•	-	30	2	DS	EC	101	-
58	FRA	AC.HP	120	1	103	CUH2	1/6	24	20	1	2	12	12	3/4"	-	-	-	-	30	2	DS	EC .	103	
80	7.5	\rightarrow	208	3	202	PLYMOVENT VEF (E)	2/8	3,5,7	50	3	3		10	. 1		-	-	-	60	3	DS ·	EC	202	3
61		-+	208	3	202	MAU-2	2/8	2.4,6	30	3	3	10	10	345	0	cs	EC	202	-	•	-	•	- 1	-
æ	24	IDW -	120	1	M111	TF-1	2/A	57	20	1	2	12	12	34	٠	-	•		30	2	DS	EC	M111	-
		GHP .	120	1	ROOF	₽3	3/A	55	20	1	2	12	12	3/4"		-	-		30	2	DS (3R)	EC	RODF	٠.
8	1.6	unr		\rightarrow																				
63 64 65	2	+	208	3	ROOF	F-4		17,19,21 23,25,27	15	3	3	12	12	-	00	CS CS	EC EC		30		DS (3R) DS (3R)	EC EC	ROOF	-

MOTOR WIRING SCHEDULE NOTES:

- 4. PROVIDE A FUSED DISCONNECT FOR ELEVATOR PROVIDE ALL POWER WIRING FROM PANEL THROUGH CONTROL MODULE. PROVIDE A BUSSIAN POWER MODULE OR ECLIVALENT, FOR ELEVATOR RECALL. 6 DEFER TO PLANS FOR WIRING AND INSTALLATION REQUIREMENTS OF FAN SWITCHES AND SPEED OF
- EXISTING UNIT TO REMAIN, REFEED FROM NEW PANELS/CIRCUITS SHOWN. OVIDE WIRING AND CONNECTION(S) TO ANYIALL ASSOCIATED CONTROLS AND/OR CONTROL PANELS

- 12. EC TO PROVIDE WIRING/CONNECTION AT FAN AND SHALL PROVIDE ANY/ALI PROVIDE MANUAL ON-OFF CONTROLLER IN GARAGE.

SYSTEMS:

- CATY OUTLET
- VOLUME CONTROL
- EMERGENCY PUSH BUTTON
- CEILING MOUNTED SPEAKER
- WALL MOUNTED SPEAKER
- COMMUNICATIONS DUTLET ROUGHIN

- D COMMUNICATIONS DUTLET ROUGHIN FIRE ALARM MANUAL PULL STATION - MOUNTED AT 44" AR
- 15DO FIRE ALARM AUDIOVISUAL SIGNALING DEVICE MOUNT & BELOW CELLING OR AT 6-5" AFF, WHICHEVER IS LOWER
- 30 DØ FIRE ALARM VISUAL DILLY SIGNALING DEVICE MOUNT & BELOW CELLING OR AT 6-5 AF, WHICHEVER IS LOWER
- WEATHERPROOF FIRE ALARM AUDIOMISUAL S SMOKE DETECTOR IPHOTO-ELECTRIC TYPE
- H HEAT DETECTOR RATE OF RISE

 CM FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE

- FIRE ALARM DUCT MOUNTED SMOKE DETECTOR

 OH

 FIRE ALARM DOOR HOLD OPEN

GENERAL:

ELECTRICAL PANEL

H INDICATES DESIGNATION

ERL ERLD

EXISTING EXISTING TO BE RELOCATED EXISTING RELOCATED

POWER:

- DUPLEX RECEPTABLE MOUNTED 20" AFF UNLESS NOTED OTHERWISE
- DOUBLE DUPLEX RECEPTACLE MOUNTED 20" APP UNLESS NOTED OTHERWISE DUBLE DURLEX RECEITACLE WITH TWOOD USE PORTS - MOUNTED 27 AF UNLES

 DUBLEX RECEITACLE - MOUNTED AT 4°C OR C A 80 VE COUNTERTOP OR COUNTER

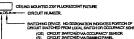
 BACKSPLASH WHOSE PRESENT SEE PLANSFOR EXACT OUTLET TYPE
- U A DUPLEX RECEPTACLE WITH TWO CI USB PORTS MOUNTED AT 42" OR # ABOVE COUNT OR COUNTER BACKSPLASH WHERE PRESENT, SEE PLANS FOR EXACT OUTLET TYPE
- GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE MOUNTED AT 47 OR 4"
 ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT.
 SEE PLANS FOR EXACT OUTLET TYPE.
- GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE-MOUNTED 20" AFF UNLESS NOTED DTHERWISE
- COURLE DUPLEX RECEPTACLE MOUNTED AT 42° OR 4" ABOVE COUNTERTOP OR COUNTE BACKSPLASH WHERE PRESENT. SEE PLANSFOR EXACT OUTLET TYPE.
- DUPLEX RECEPTACLE MOUNTED FLUSH II
- OVERHEAD DOOR OPERATOR U DISCONNECT

- (F) FLUSHTYPE
- MECHANICAL MOTOR CONTROL SWITCH

SURFACE MOUNTED RACEWA

SYMBOLS LIST:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO FROM FINISHED FLOOR TO CENTERLINE OF DEVICE. LIGHTING:



CIRCUIT SATICH(LEG IND DESIGNATION HEXCATE

SHADING INDICATES FIXTURE WIRED TO EMERI LIGHTING CIRCUIT ☐ WALL MOUNTED LIGHT FIXTURE

CELING MOUNTED LIGHT FIXTURE CELING MOUNTED LIGHT FIXTURE

CBUNG MOUNTED LIGHT FIXTURE CBLING MOUNTED LIGHT FIXTURE

FLUORESCENT SURFACE MOUNTED LIGHT LIGHTING FIXTURE - CELLING MOUNTED

TH LIGHTING FIXTURE - WALL SURFACE

EXTLIGHT, SHADING INDICATES FACE OF EXIT. --- IN-WALL TIMER - SENSORSMITCH #PTS80

\$ PILOT LIGHT SWITCH -69- SINGLE POLE SMITCH - TOGGLE TYPE - MOUNT AT 44" API 2 UNLESS NOTED OTHERWISE

TIMECLOCK

P PHOTOCELL ☐ LIGHTING CONTROL OCCUPANCY SENSOR, WALL MOUNTED AT 44"AFT UNLESS NOTED OTHERWISE, ISSE SCHEDULE SHEETS FOR TYPE

UGHTING CONTROL OCCUPANCY SENSOR, CELLING MOUNTED, (SEE SCHEDULE SHEETS FOR TYPE)



eppstein uhen : architects



EJDR E

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS # DATE DESCRIPTION
1 01/90/2015 ADDENDUM1

KEY PLAN



SHEET INFORMATION

PROJECT MANAGER

PROJECT NUMBER

SYMBOLS, DETAILS AND SCHEDULES -

12149

01/09/2015

SYMBOLS, DETAILS AND SCHEDULES - ELECTRICAL

ELECTRICAL SHEET INDEX

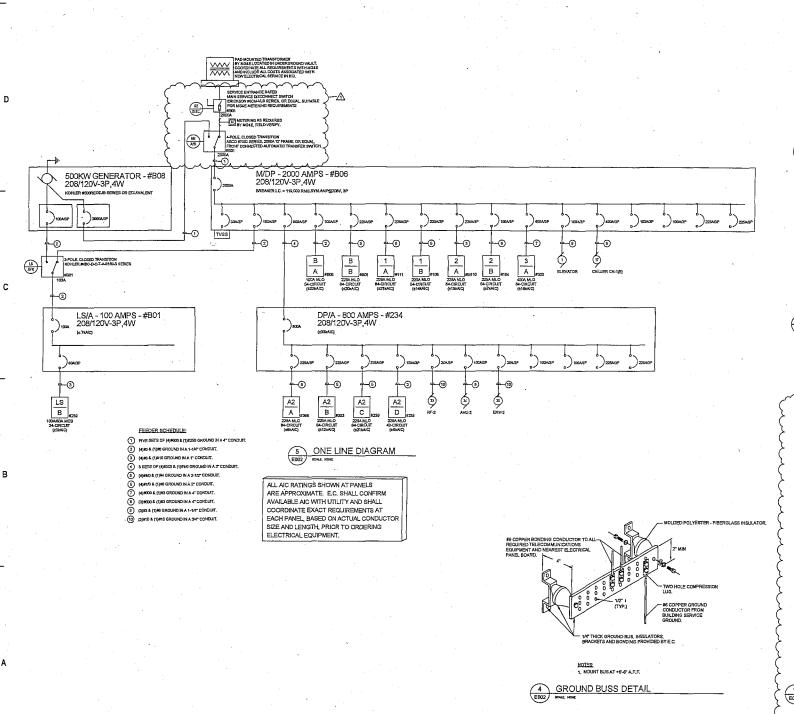
E000 SYMBOLS, DETAILS AND SCHEDULES - ELECTRICAL
E001 SCHEDULES - ELECTRICAL
E0100 FS#1 BASEMENT DEMOLITION PLAN - ELECTRICAL
E0101 FS#1 BASEMENT DEMOLITION PLAN - ELECTRICAL
E0101 FS#1 15T FLOOR DEMOLITION PLAN - ELECTRICAL
E0102 FS#1 2ND FLOOR DEMOLITION PLAN - ELECTRICAL
E0103 FS#1 3RD FLOOR DEMOLITION PLAN - ELECTRICAL
E1001 FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E1009 FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E1009 FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E1015 FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E1016 FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E1017 FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
E1018 FS#1 BASEMENT AND ADMIN CHOINE ELOR PLAN - LIGHTING
ENDER - LIGHTING ELOR PLAN - LI

E101L FS81 1ST FLR AND ADMIN GROUND FLOOR PLAN - LIGHTING
E101P FS81 1ST FLR AND ADMIN GROUND FLOOR PLAN - POWER/SYSTEMS
E102L FS81 2ND FLR AND ADMIN MEZZ PLAN - LIGHTING
E102P FS81 ZND FLR AND ADMIN MEZZ PLAN - POWER/SYSTEMS

E193L FIRE STATION #1 3RD FLOOR PLAN - LIGHTING
E193P FIRE STATION #1 3RD FLOOR PLAN - POWER/SYSTEMS
E194L ADMINISTRATION 2ND FLOOR PLAN - LIGHTING
E194P ADMINISTRATION 2ND FLOOR PLAN - POWER/SYSTEMS

E000

ELECTRICAL





eppstein uhen : architects
milwaukee 313 East Chicago Straet
Milwaukee, Wisconsin 53202
mi 414 271 5350 far 414 271 7724



EJDR E

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS # DATE DESCRIPTION
1 01/30/2015 ADDENDUM 1

KEY PLAN



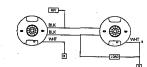
SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 01/09/2015 DATE

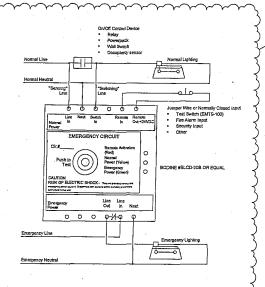
> DETAILS -ELECTRICAL

> > E002

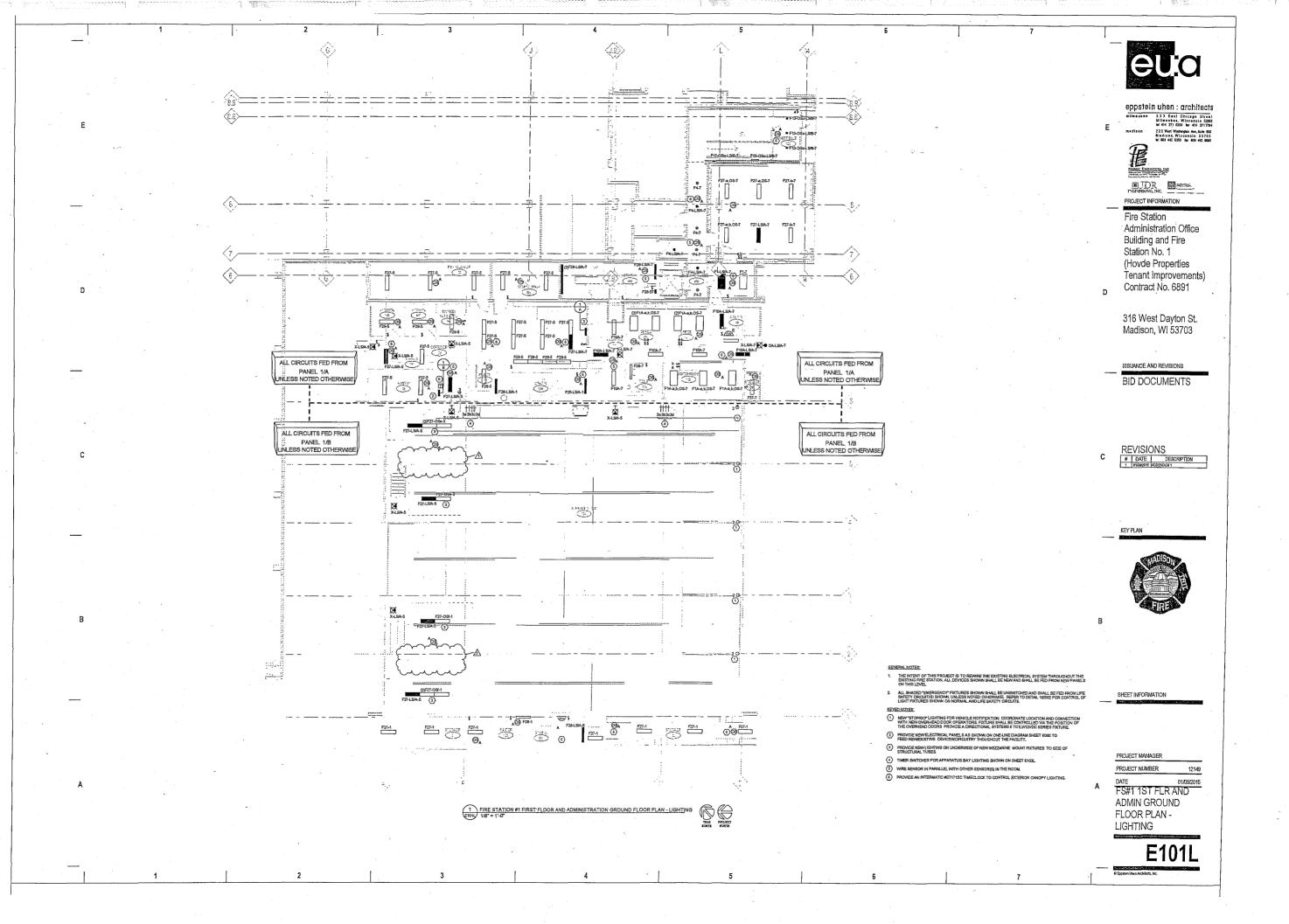
3 TYPICAL OCCUPANCY SENSOR/SWITCH WIRING DIAGRAM

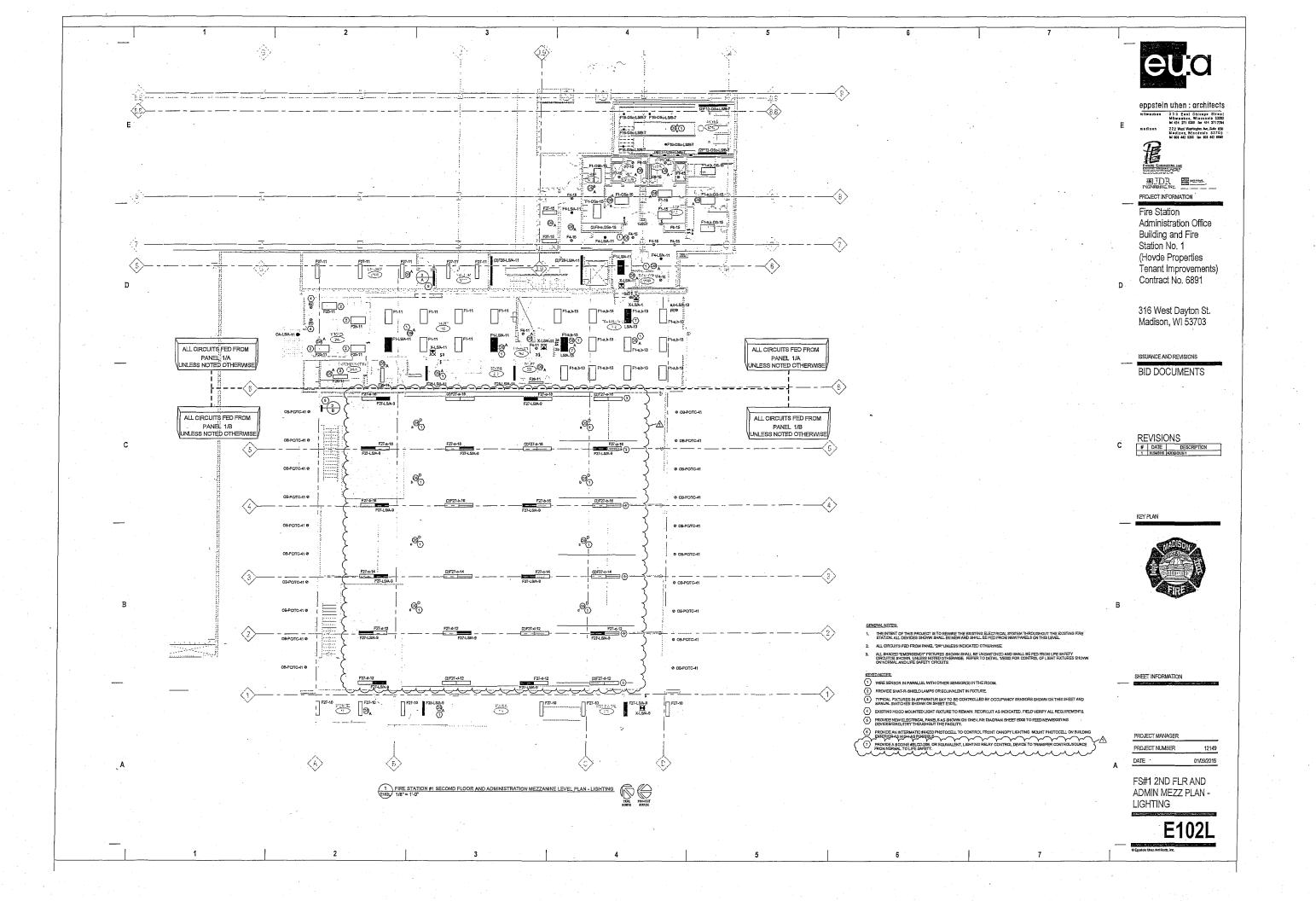


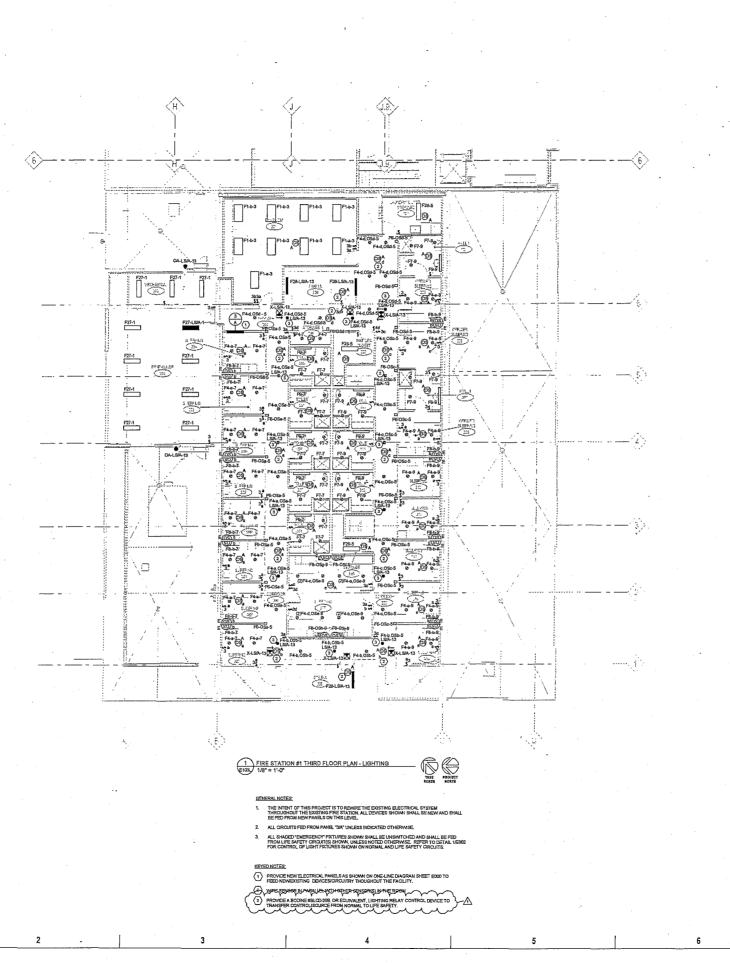
2 TYPICAL OCCUPANCY SENSOR PARALLEL WIRING DIAGRAM



1 EMERGENCY LIGHTING CONTROL UNIT WIRING









eppstein uhen : architects

3.3.3 East Chicago Street
Hilwaukee, Wisconain, 5322
444 275555 to 442 277554
medisen

222 Wall Wendpain An, Sale 850
halfation, Wisconain, 53703
ii 564 442 5350 to 661 442 6890



FIDR E

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS
DATE DESCRIPTION
1 010002015 MODERDUK1

KEY PLAN



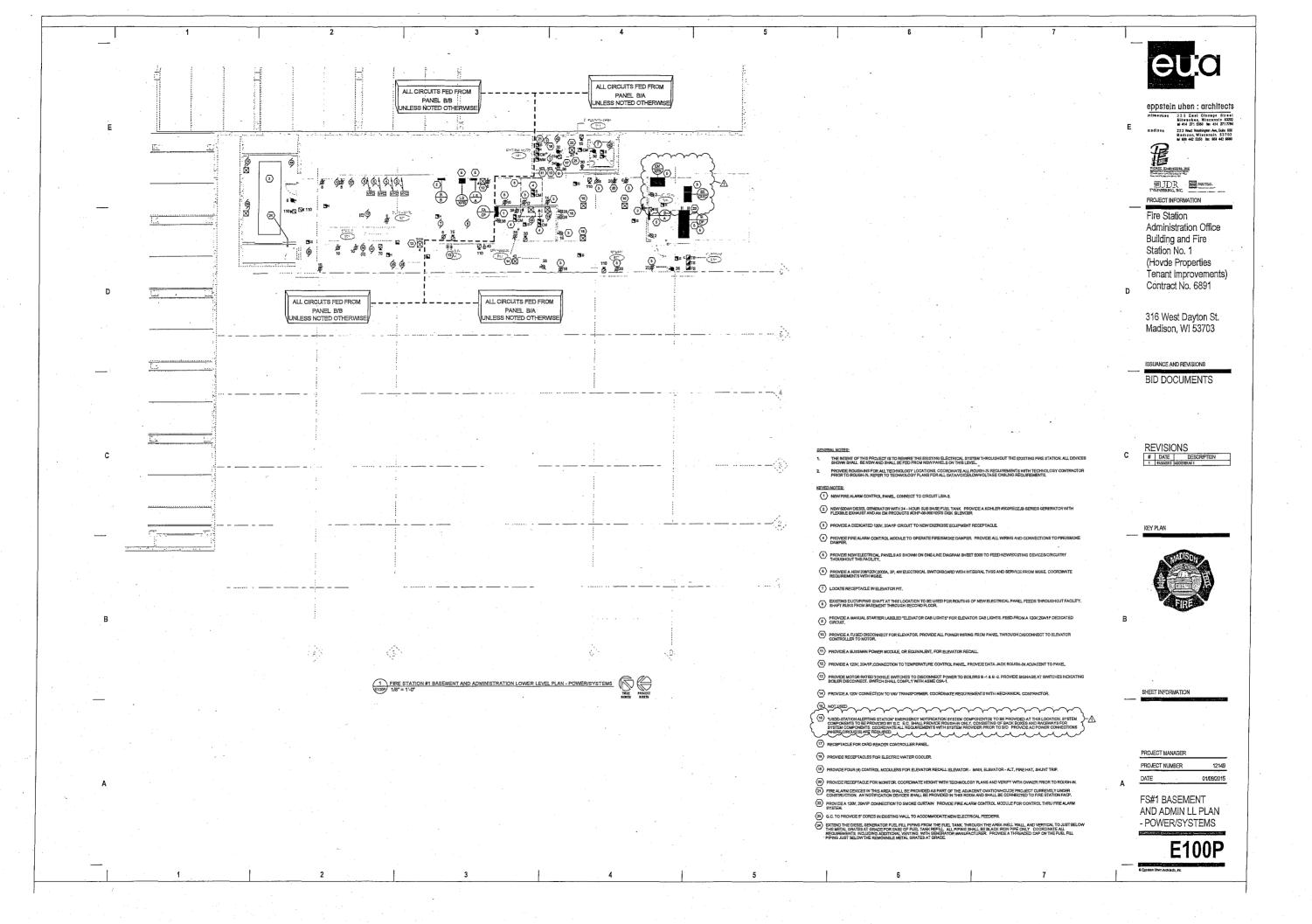
SHEET INFORMATION

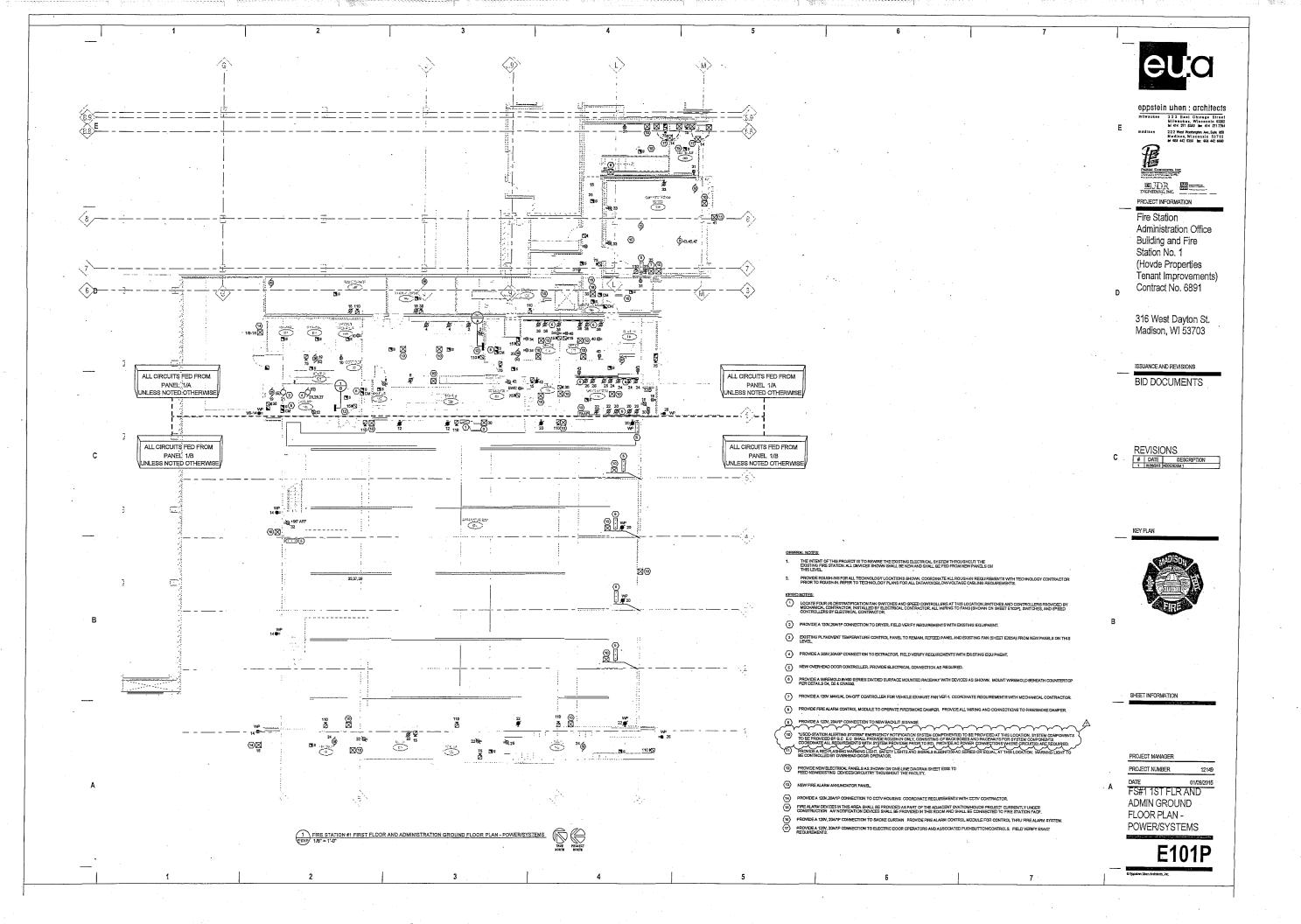
PROJECT NUMBER 12149

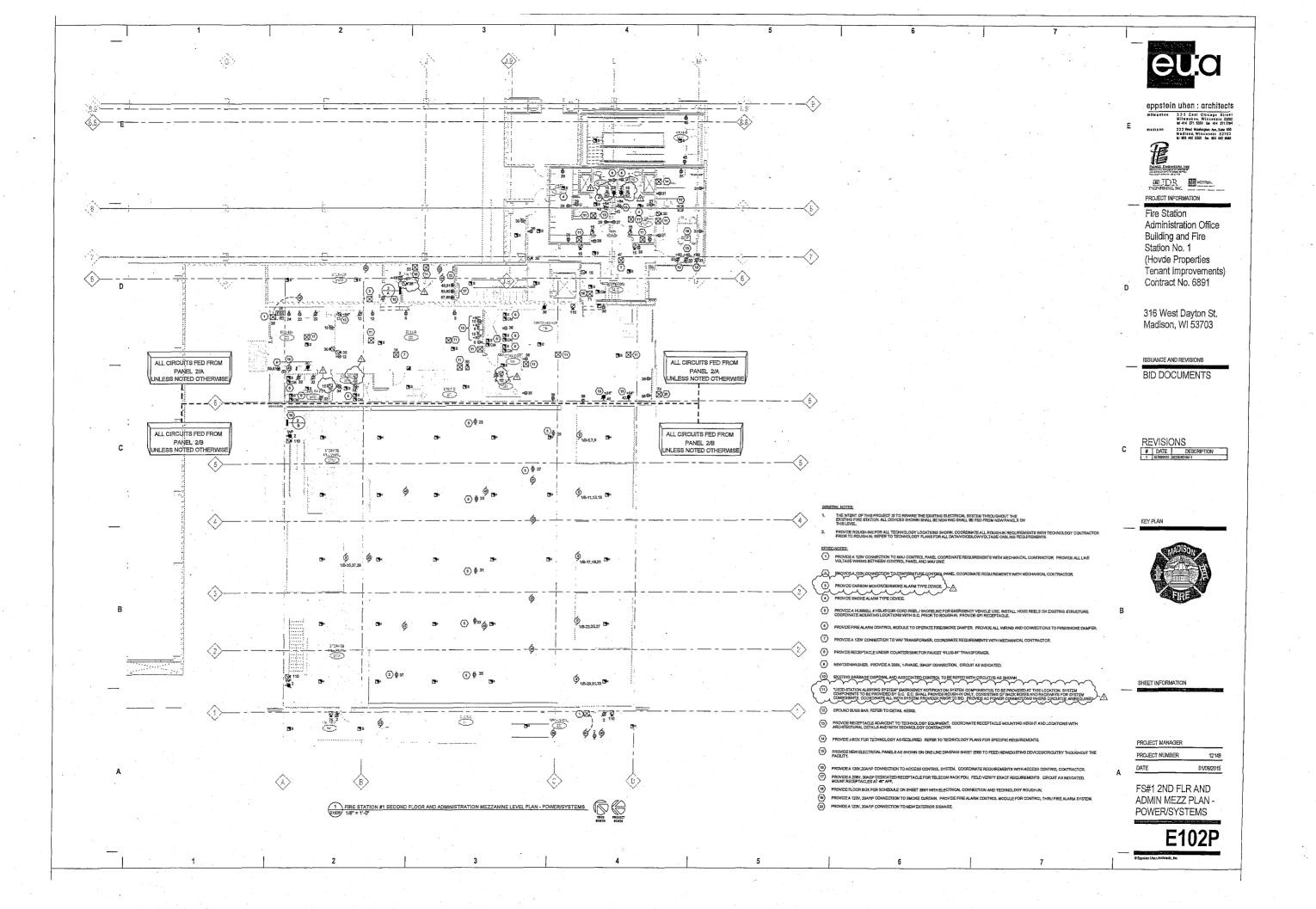
01/09/2015

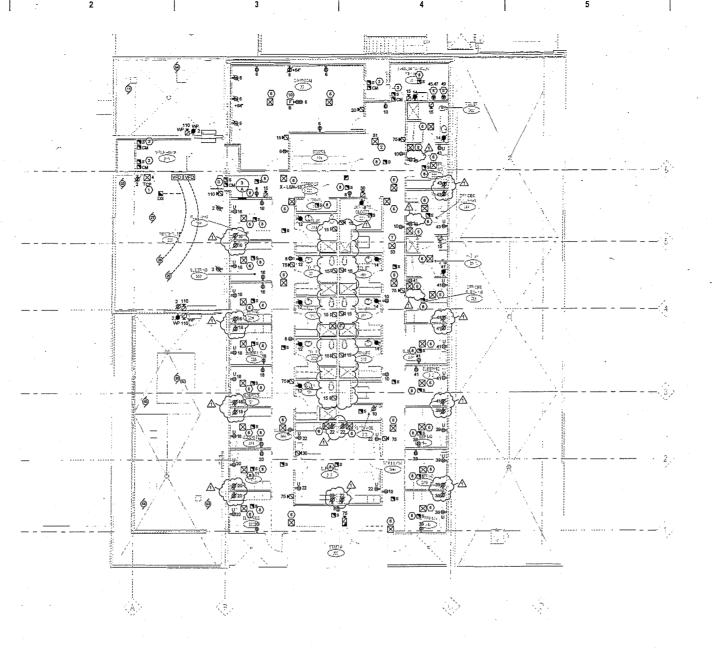
FIRE STATION #1 3RD FLOOR PLAN -LIGHTING

E103L









1) FIRE STATION #1 THIRD FLOOR PLAN-POWER/SYSTEMS

| State | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page | Page



- PROVIDE A 120V CONNECTION TO TEMPERATURE CONTROL PANEL. COORDINATE REGIL CONTRACTOR, PROVIDE DATA JACK ROUGH-IN ADJACENT TO CONTROL PANEL.
- PROVIDE A 120V CONNECTION TO VAY TRANSFORMER COORDINATE REQUIREMENTS WITH ME

- PROVIDENCY BLECTHON PANELS AND HONOR ONE LINE DIAGRAM SHEET EDOD TO FEED NEW PANEXISTING DEVICES DIRECTIFY.

PROVIDE FLOOR BOX PER SCHEDULE WITH ELECTRICAL CONNECTION AND TECHNOLOGY ROUGH IN TO PURNITURE PARTITIONS.



eppstein uhen : architects

milwaukee 3.3 East Chicago Street
Milwaukee, Wisconsin 52702
Halfson, Wisconsin 52703
Halfson, Wisconsin 63703
Halfson, Wisconsin 63703
Halfson, Wisconsin 63703



EJDR E

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

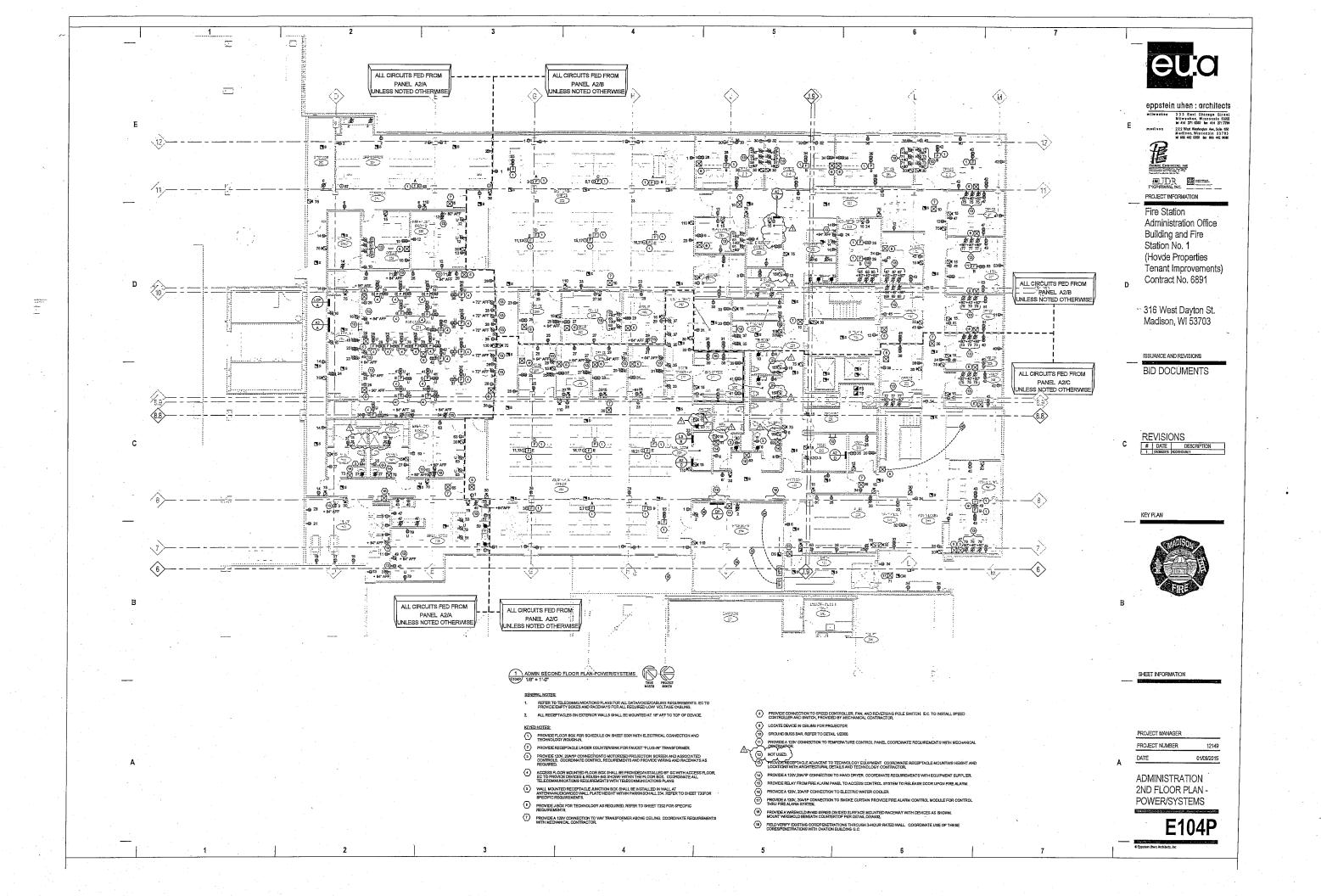


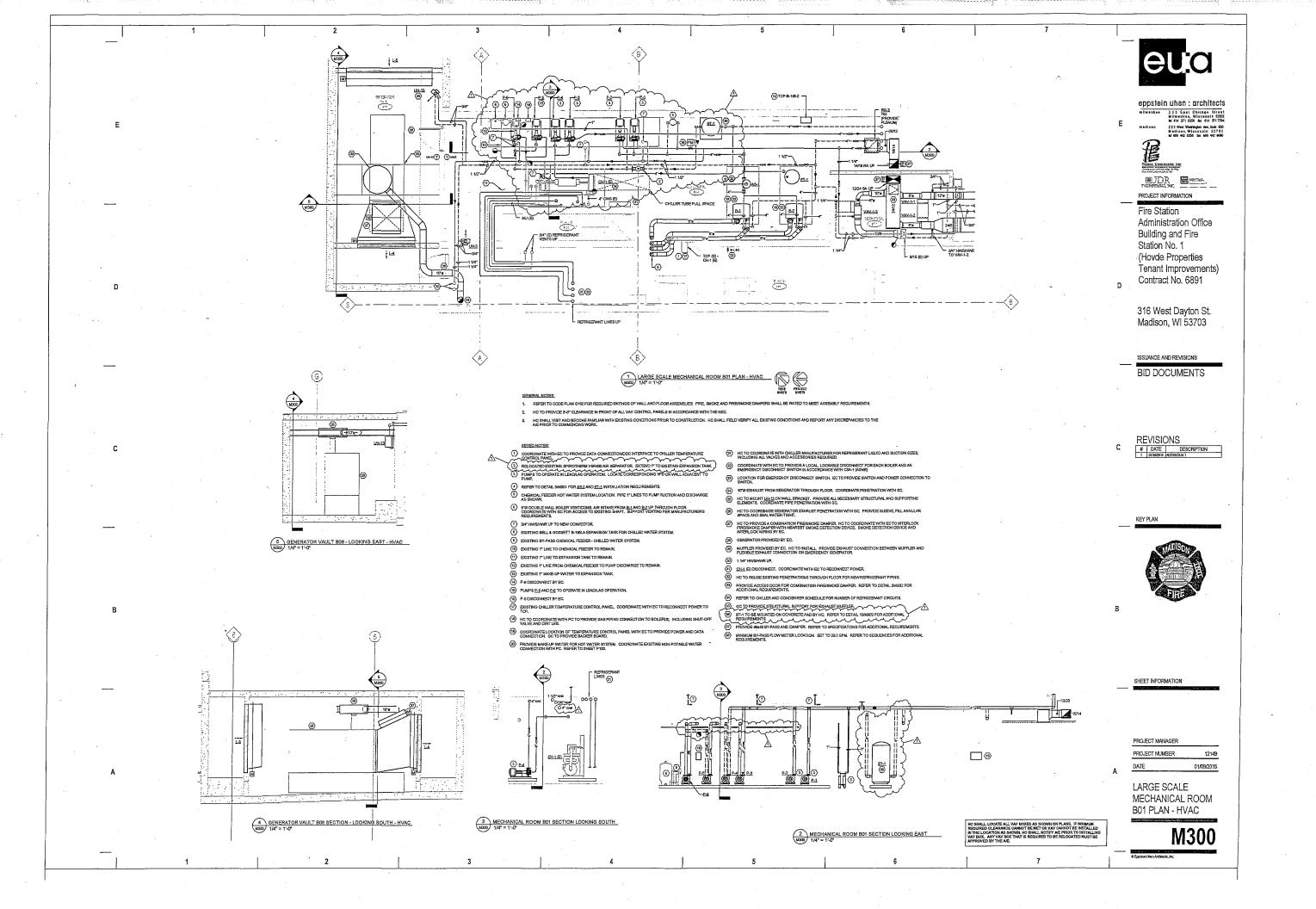
SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 01/09/2015

FIRE STATION #1 3RD FLOOR PLAN -POWER/SYSTEMS

E103P





												<u>AIR</u>	DEVI	CE S	CHE	DULE					·										
EG-1(3)	THROW (IF OTHER THAN HORMAL) UNIT NUMBER CFM	SG = SL RG = RE EG = EX	IPPLY GRILLE ETURN GRILLE KHAUST GRILLE	CO # C	NEAR DIFFUSER (5 EILING DIFFUSER (RANSFER GRULLE	SUPPLY) SUPPLYJ																									
UNIT'NO.	CD-1	CD-Z	. CD-3	CD-4	CD-S	CD-6	CD-7	CD-8	CD-9	CD-10	EG)	EG-2	EG-3	EG-4	EG-S	EG-6	RG-1	RG-2	RG-0	5G-1	5G-2	\$G-3	56-4	5G-5	86-6	5D-1	TG-1	TG-2	7G-0	764	TG-5
SERVICE	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	RETURN	RETURN	RETURN	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	SUPPLY	TRANSFER	TRANSFER	TRANSFER	TRANSFER	TRANSFER
MANUFACTURER	TITUS	TITUS	TITUS	mus	Tirus	าทบร	TITUS	mrus	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	ากบร	TITUS	TITUS	าทบร	TITUS	פעווד	THUS	TITUS
MODEL NO.	OMNI	OMNI	OMNI	OMN	TDC	TDC	TDC	PAS	TDC-AA	DMNHAA	350-FL	350-FL	350-FL	63FL	-63FL	350-FL	350-RL	350-RL	50F .	301RL	301RL	301FG_	301RL	301RL	301FG_	TBO	50₹	350-RL	350-RL	350-RL	350-FL
FACE STYLE	PLAQUE	PLACUE	PLAQUE	PLAQUE	LOUVERED	LOUVERED	LOUVERED	PERFORATED	LOUVERED	LOUVERED	SINGLE DEFLECTION	DEFLECTION	SINGLE DEFLECTION	SINGLE DEFLECTION	DEFLECTION	DEFLECTION	SINGLE DEFLECTION	DEFLECTION	EGG CRATE	DEFLECTION	DEFLECTION	DEFLECTION	DEFLECTION	DEFLECTION	DEFLECTION	SLOT DIFFUSER	EGG CRATE	DEFLECTION	DEFLECTION	DEFLECTION	SINGLE DEFLECTION
FINISH	WHITE	WHITE .	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	унпе	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
MATERIAL	STEEL	STEEL.	STEEL.	STEEL	STEEL,	STEEL .	STEEL.	STEEL	ALUM	ALUM	ALUM	ALUM	ALUM	ALUM	ALUM	ALUM	STEEL.	STEEL,	ALUM	STEEL	STEEL.	STEEL,	STEEL.	STEEL	STEEL	STEEL	ALUM	STEEL	STEEL .	. STEEL	ALUM
SIZE (FACE/NECK)	243/24/5*8	24X24/6°Ø	24X24/1018	243241519	24X24/12X12	24X24/8X9	24X24/6X6	24X24/12X12	24X24/21X21	24X2416"0	52X12/10X10	14X14/12X12	22X12/20X10	24X24/22X22	18X34/15X32	24X12/22X10	18X10/16X8	16X16/16X14	24X24/20X20	10X8/8X5	14X8/12X8	20XIV18X5	20X10/18X8	20X10/16X8	42X14/40X12	4'-0'/10'9	24X24/22X22	26X16/14X14	20X14/18X12	36X14/34X12	12X12/10X10
CFM RANGE	0-100	105-220	225-440	105-220	405-500	170-400	75-165	250-500	1,550	0-100	0-225	230-440	445-580	1,600	1,600	D-500	350	500-700	0-1,285	0-205	210-310	315-445	450-515	450-615	. 1,450	240-300	0-1,090	940	350	1,225	0-225
MOUNTING	LAY-IN	LAY-IN	LAY-IN	SURACE	LAY-IN	LAYIN	LAY-IN	LAY-IN	LAY-IN	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	LAY-IN	SURFACE	SURFACE	LAY-IN	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	LAY-IN	SEE PLANS	SURFACE	SURFACE	SURFACE	SURFACE
DAMPER .	-	-		-	-	T -	•	•	-	-	SEE PLANS	SEE PLANS		YES	YES			YES	-	-		· _	- "	YES	YES	ND	SEE PLANS	ND	NO	NO	۰

2. BRANCH DUCT SIZE
3. SEE SPECIFICATION
4. RAZBRUM STATIC F
5. MAXMIM INC LEVE
6. UNLESS THROW IS
KEYED NOTES:

(2) SLOT DIFFUSER TO HAVE 10'9 OVAL INLET, 2 SLOTS, 1" SLOT WIDTH.

-HOT	HOT WATER CABINET										
UNIT I	HEATE	R SC	HEDI	JLE.							
UNIT NO.	CUH-1	CUH-2	CUH-3	CUH4							
LOCATION	STORAGE 101	STORAGE 103	LAUNDRY 106	CORRIDOR 119							
MANUFACTURER	MODINE	MODINE	MODINE	MODINE							
MODEL NO.	CW904	DW094	CW014	C004							
CAPACITY (MBH)	24.2	24.2	42.6	24.2							
AIRFLOW (CFM)	440	440	1,430	40							
GPM	2,5	2,5	4.4	2.5							
EWT/LWT ("F)	140/120	140/120	140/120	140/120							
WPD (FT)	2.4	2,4	0.3	2.4							
EAT ("F)	55	55	55	55							
MOTOR HP	1/20	1/20	(2) 1/20	1/20							
VOLTAGE/PHASE	115/1 1	115'1	115/1	115/1							
FAN SPEED (RPM)	-	•	-								
INVERTED FLOW	ND	ND	ND	NO							
MOUNTING	CEILING	CEILING	SEMI-RECESSED	FLCOR							
RECESS (IN)	· ·	•	5*	-							
TCY SIZE	2 YYAY	2 WAY	2 WAY	2 WAY							
REMARKS	(2)	(2)	①	(2)							

KEYED NOTES:

GAS-FIRED MAKE-UP											
AIR UNI	TSC	HED	JLE								
UNIT NO.	MAU-1	MALU-2									
SERVICE	KITCHEN	APPARATUS BAY									
MANUFACTURER	GREENHECK.	GREENHECK									
MODEL NO.	DGX-108	DGX-115									
SUPPLY CFM	1,000	5,800									
DA CFM	1,000	5,800									
EXT. SP (IN WC)	0.75	0.75									
FAN DIAMETER	-	•									
FANTYPE											
ENT, AIR TEMP ("F)	-15	-15									
LEAVING AIR TEMP ("F)	70.0	70.0									
INPUT CAPACITY	5,92	578.7									
OUTPUT CAPACITY	91.6	532.4									
GAS PRESSURE	F W.C. MAX	8" W.C. MAX									
FAN (HP)	0.75	6,0									
FAN RPM	1,455	997									
FAN BHP	0,58	3,96									
MCA	5,1	22.8									
MOCP	15	30									
VOLTS/PHASE	208/3	208/3									
PUELTYPE	NATURAL GAS	NATURAL GAS									

	PUM	IP SC	HED	ULE		
UNIT NO.	. P-1	P-2	P-3	P4	P-5	P-6
LOCATION	MECH BOY	MECH BO1	MECH BO1	MECH BO1	MECH BO1	MECH 801
SERVICE	HOT WATER	HOT WATER	SYSTEM	CHILLED WATER	LOGP	PRIMARY CW
TYPE	BASE MOUNTED END SUCTION		BASE MOUNTED END SUCTION	END SUCTION		END SUCTION
MAKE	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GDSSETT	BELL AND GOSSETT
MODEL	SERJES 1510 2 BD	SERUES 1510 2 9D	SERIES 1510 2 1/2 68	SERIES 1516 2 1/2 88	SERSES 1510 2 1/2 88	SERIES 1510 2 1/2 88
CAPACITY GPM	132	132	160	160	170	170
PRESSURE HEAD (FT)	80	80	70	. 70	23	23
SHUT-OFF PRESSURE HEAD (FT)		-		-	•	. •
MIN, NPSH REQUIRED (FT)	4.δ	4.6	6,0	6,0	3,5	3.5
INLET/OUTLET (IN)	2512	2512	3125	31/25	3*12.5	3125
IMPELLER DIAMETER	8,875	8.875"	6.375	6,375"	8.5	, b.tr
MIN. EFF. %	65	6 5	65	65	55	85
RPM .	1.750	1,750	1,750	1,750	1,750	1,750
ВИР	3.9	3.9	4.1	4.1	1.4	1.4
HP	7.5	7.5	7.5	7.5	50	20
YOLTAGE/PHASE	208/3	208/3	2083	208/3	201/3	2083
VFD .	YES	YES	YES	YES	NO	NO
UNIT WEIGHT (LBS)	350	350	•	-	•	-
REMARKS	1	①	(1)	①	- ①	1

KEYED NOTES:

AIR COOLED								
C	HILLER SO	CHEC	ULE					
UNIT	NO.	CH-1(E)						
SER	NCE	-						
TOC	ATION	MECH BOI	1					
MAN	UFACTURER	YORK						
MOD	EL NO.	YCRL0084HE						
TYPE		AIR COOLED						
REFF	RIG. TYPE	R-410A						
COD	LING CAPACITY (TONS)	70						
NO, 0	OF CIRCUITS	2						
ND.	OF COMPRESSORS	4						
REF	RIGERANT CONNECTIONS	(2)						
MAX	PRESSURE (WATER PSIG)	150						
Max	PRESSURE (REFRIG PSIG)	450						
EV/T	(°F)	54						
LWT	CE)	4						
CHIL	LER WATER GPM	170						
HYPD	(IN WC)	5.5						
YAT	ER VOLUME (GAL.)	59,6						
2	VOLTS .	208						
튙.	PHASE	3						
JNIT ELECTRICAL DATA	MCA	314						
≝‴	MOCP	400						
5	COMPRESSOR FLA	(4) 73.9						
APPE	XX. WEIGHT (LBS)	3,597						
REM	ARKS	1						

KEYED NOTES: (1) EXISTING SPLIT AIR COOLED CHILLES

EXPANSION

TANK SCHEDULE

AIR COOLED CONDENSER UNIT SCHEDULE

ONI SC	1111	ノレニ
UNIT NO.	ACC-1(E)	
SERVICE	CH-1 (E)	
MANUFACTURER	YORK	
MODEL NO.	VDC-236D10	
NOMINAL CAPACITY (TONS)	80	
AMBIENT TEMP (°F)	. 95	
CONCENSER TEMP ("F)	125	
REFRIG. SUBCOOLING (F)	10	
OPERATING TEMP, DIFFERENCE ("F)	14,9	
HEAT REJECTION CAPACITY (MBH)	983.3	
AIR FLOW (CFM)	46,686	
NO. OF CONDENSER FANS	- 6	
NO, OF CIRCUITS	2	
REFRIGERANT TYPE	R-410A	
REFRIGERANT CHARGE		
REFRÉGERANT LINE SIZE	(2)	
REFRIGERANT CONNECTION	25/6	-
APPROX, WEIGHT (LBS)	2,147	
VOLTS/PHASE	208/3	
CONDENSER FAN FLA	(6) 4.8 (1 HP EA)	
FIA	28.8	
UNITIMOA	36	
UNITMOCP	40	
REMARKS	(1)	

CHILLED WATER COIL SCHEDULE

TAG	cca	CC-4
SERVICE .	ERV-2	ERV-1
LOCATION	MECH 234	PENTHOUSE 33
CFM	1,750	1,800
FACE VELOCITY (FPM)	445	475
SENSIBLE CAPACITY (MBH)	47.5	48.6
TOTAL CAPACITY (MBH)	` 67.E	72.5
GPM	16.9	18.5
# OF COILS	1	1
ROWS	5	
MAX FINS/INCH		10
EWT (*F)/LWT (*F)	44/52,0	44/51,7
EAT (*F) DB / EAT WB (*F)	79,8/66.6	79.9/66.7
LAT ("F) DB / LAT WB ("F)	54,9154,0	55,0'53,7
WPD (FT)	4.0	4,4
APD (IN WC)	0,54	0.63
TOV TYPE	2 WAY	2 WAY
REMARKS	(1)	(2)

KEYED NOTES:

PROVIDE ALUMINUM FINS, COPPER HEADER AND 50" LD, TUBES, AND STAUNLESS STEEL
 DRAIN PAN. PROVIDE Z' COL, CASING WITH ACCESS DOOR UPSTREAM OF COIL

HOT WATER UNIT HEATER SCHEDULE FAN SPEED REMARKS KEYED NOTES:

HOT WATER FIN TUBE RADIATION SCHEDULE

U	NIT NO.	WF-1	WF-Z	WF-3	WF-4	WF-5	WF-6	WF-7
М	ANUFACTURER	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL	RUNTAL
M	DDEL NO.	RF-3	RF-3	RF-3	R2F-4	R2F-6	R2F-5	R2F-7
ī	PE -	WALL MOUNT	WALL MOUNT	PEDESTAL	WALL MOUNT	WALL MOUNT	WALL MOUNT	PEDESTA
B	CLOSURE HEIGHT (IN)	8 5/8-	8 5/8*	8 5/6*	11 1/2	17 1/4"	14.3/6"	20 1/4"
E	(CLOSURE DEPTH (IN)	2	2"	z	5	5"	5	₽*
B	ICLOSURE LENGTH (FT)	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
R	ows	1	1	1	z	2	2	2
Ę	PIPE SIZE	1"	l.	7"	1"	1"	1"	1"
ENEM	FINSFT	32	32	32	32	32	32	32
딦	LENGTH (FT)	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
AY	G WATER TEMP (*F)	130,0	130.0	130,0	130.0	130,0	130.0	130,0
TC	P OF ENCL MINTING HEIGHT AFF	30"	30"	30"	30"	30"	•	30"
7	OF TIERS	3	3	3	4	-6	7	7
EΑ	T(F)	70,0	70.0	70,0	70,0	70.0	70.0	70,0
EY	/T (*F)	140,0	140.0	140,0	140,0	140.0	140.0	140,0
W	TER TEMPERATURE DROP ("F)	20	20	20	20	20	20	20
C,A	PACITY (BTU/HR)/LINEAR FT.)	375	375	375	808	1,160	1,034	1.286
TU	BE SIZE	г	۳	т	t	7-	r	1"
עו	BE MATERIAL	STEEL	STEEL	STEEL	श्यक्त	STEEL,	\$TEEL	STEEL
FIN	SIZE	•		•	-	-	-	•
F۱۱	MATERIAL.	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
FP.	P .	•		•		-		-
TC	Y	2-WAY	2-WAY	2-YYAY	2-YAY	2-IVAY	Z-WAY	2-WAY
RE	MARKS	①	(2)	(3)	①	①	①	(2)(3)

GENERAL NOTES:

HC IS RESPONSIBLE FOR KITS.

KEYED NOTES:

BUFFER TANK HOT WATER BOILER SCHEDULE SCHEDULE

	ILDULL	UNIT NO,	B-1	B-2
UNIT NO.	BT-1	LOCATION	MECH BO1	MECHBO
SERVICE	CHILLED WATER	MANUFACTURER	AERCO	AERCO
LOCATION	MECH BO1	MODEL NO.	BMK 1000	BMK 100
MANUFACTURER	WESSELS	NATURAL GAS INPUT (MBH)	1,000	1,000
ODEL NO.	CBT-209	RATED IBRIAGA OUTPUT IMBH		910
OLUME (GAL)	200	{ [EWT	110	110
			145	140
AMETER (IN)	30	HOT WATER (GPM)	145	145
EIGHT (IN)	75	VENTANTAKE DIAMETER	E76	676
ESIGN CODE	ASME	WATER CONNECTION DIA (IN)	3.13.	373
UPPORT	FLOOR MOUNT) SE VOLTS	120 t3	120
EIGHT - EMPTY (LBS.)	630) EE PHASE	1 1	13
EIGHT - FULL (LBS.)	2,300	VOLTS AMPS AMPS PHASE MGCP	20.0	20.0
EMARKS		UNIT WEIGHT (LBS)	620	820
		REMARKS	_	

AIR HANDLING

L		UNIT SC	HEDL	JLE		
. Vi	NIT	NO.	AHU-1	AHU-2		
L	004	MOIN	PENTHOUSE 336	MECH 234		
SE	RV	ICE	FS#1	ADMINISTRATION		
100	QNI.	JFACTURER	NICQUAY	MCCUAY		
М	ODE	EL NUMBER	CAHD17GDGC	CAHMOGOGO		
A	R.F	LOW (CFM)	7,770	19,070		
М	N.	DA (CFM)	1,800	1,750		
7.	ou	TSIDE AIR	22.6%	9,5%		
Г	S	FAN TYPE	CENTRIFUGAL PLENUM	CENTRIFUGAL PLENUM		
ž	ZZ.	WHEEL TYPE / DIAL (IN)	AIRFOIL/22.5	AIRFOIL/30.0		
SUPPLY FAN	PACTERIST	TSP ("WG) / ESP (WG)	4,53/2.0	4.49 / 2.0		
급	ş	DRIVE TYPE	DIRECT	DIRECT		
L	ਣ	RPM	1,800	1,750		
Г	В	HP	8.4	21,5		
[ы	P	10.0	25,0		
	Y	OLTS	205	208		
NOTOR	Ŀ	KASE	3	3		
2	[u	DCKED ROTOR CURRENT	179,3	403.6		
1	F	ULL LOAD CURRENT	25,9	63.5		
L	٧.	FD	YES	YES		
VIE	RA	TION ISOLATOR TYPE	SPRING	SPRING		
VŒ	RA	TION ISOLATOR DEFLECTION	- "	-		
C	IIU	LED WATER COOLING COIL				
EA	(1	F) DB	75,1	75,5		
EA	7 (*)	F) WB	63,5	E3,D		
IA	r	÷) £16	54,1	53,7		
LA	rei	F) WB	53.2	52,8		
# 0	FC	OILS	1	2		
MIN	LR	ows -	4	5		
MA	X.F	IN/INCK	10	10		
тот	TAL.	CAPACITY (MBH)	235,5	573,1		
SE	4SI	BLE CAPACITY (MBH)	186,9	454,3		
MA	L F	ACE VELOCITY (FPM)	464	494		
AIR	PD	(IN WC)	0,68	82,0		
MAX	۲	ATER PD (FT)	14.5	15,1		
GP	ř		48.1	115.0		
EW	r	(אי) דאגע (י	44.0/63.5	44,0/53.9		
FCV	_		2 WAY	2 WAY		
FIL	_					
PRE	FI	TER TYPE	3	①		
	_	TER EFFICIENCY	MERV 6	MERV 6		
	_	TER DEPTH (IN)	2	2		
XAM.	PF	450	450			
FINA	ĹF	LITER TYPE	•	2		

SHEET INFORMATION

12149 DATE

eppstein uhen : architects milinauker 323 East Chicago Street Milwauker, Wisconsin 53202 lei 414 271 5350 faz. 414 2717794

EJDR HE

Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

REVISIONS # DATE DESCRIPTION
1 01/30/2015 ADDENDUM 1

KEY PLAN

BID DOCUMENTS

PROJECT INFORMATION Fire Station

madison

程

SCHEDULES - HVAC

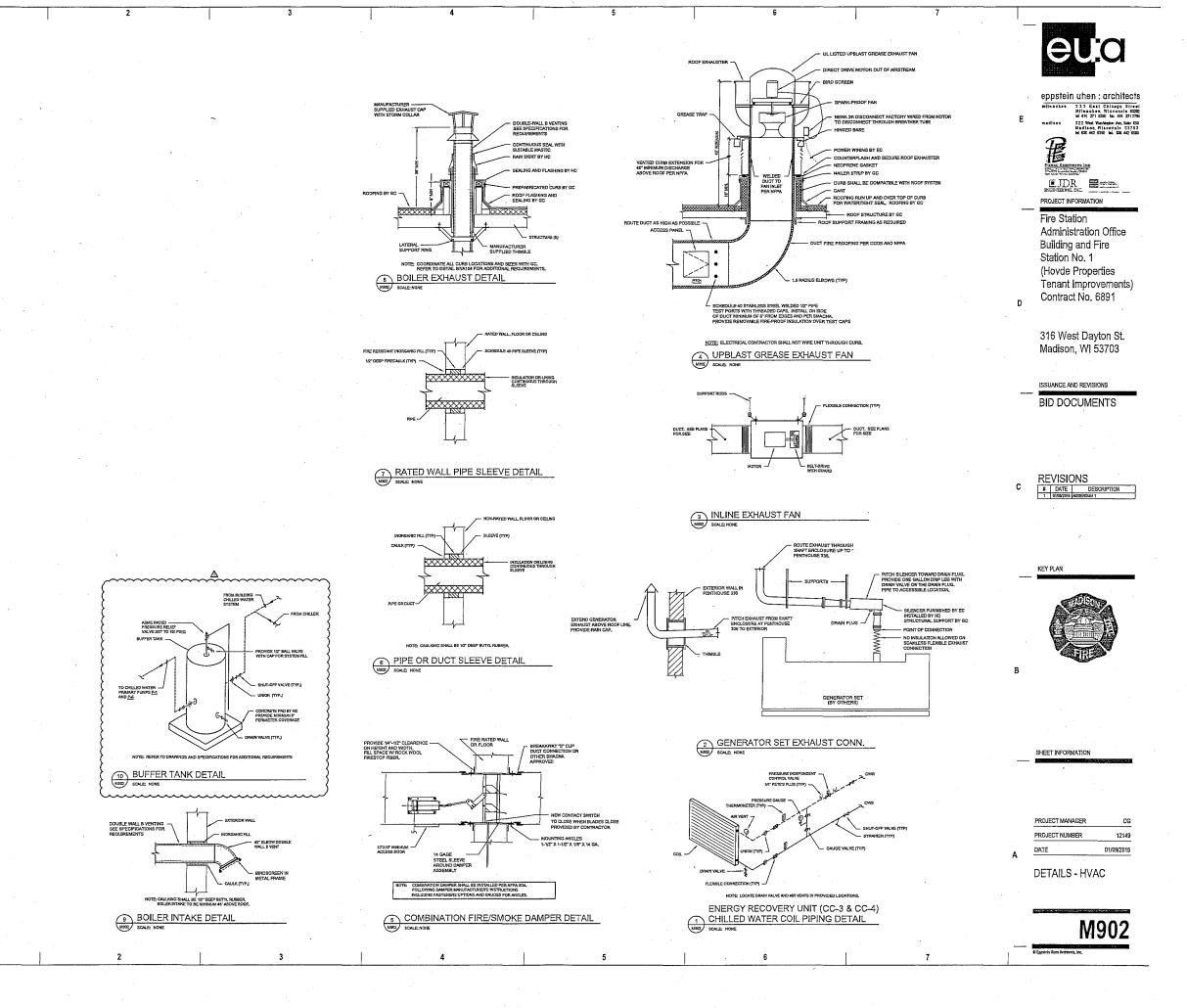
M800

KEYED NOTES:

(1) (9) ZDX24X2 AND (6) 20X20X2 PLEATED FILTERS.

(8) Z0XZ4XZ AND (6) Z9X20XZ PLEATED FILTERS, (4) (8) 20X24X12 AND (6) 20X20X12 SH CARTRIDGE FILTERS

KEYED NOTES:



										BING FIXTURE SCHEDULE	
\vdash	1	L	WAST	E	I	W	ATER	RE	T	ECIFICATION SECTION 22 40 00 FOR ACCEPTABLE EQUAL MANUFACTURERS	
ΙD	FIXTURE	DFU	TRAP	VENT	CWFL	SIZE	HWFL	HOT J SIZE	SHEET	DESCRIPTION/REMARKS	
DW-1	DISHWASHER (BY OTHERS)	1	1-1/2	1-1/2	- CWPC	SIZE	2	1/2"	+-	FIXTURE: BY OTHERS, CONNECT 1/2"HW TO UNIT WITH BALL VALVE AND WATER HAMMER ARRESTOR BEHIND UNIT, ROUTE ORAIN TO GREASE WASTE HUB DRAIN,	
DW-2	DISHWASHER (BY OTHERS)	2	1-1/2	1-1/2	-	-	1	1/2"	_	PIXTURE: BY OTHERS, CONNECT 1/2"-HY TO UNIT WITH BALL VALVE & WATER HAMMER ARRESTOR BEHIND UNIT, ROUTE DRAIN LINE TO SINK WASTE WITH AIR GAP FITTING, COORDINATE WITH GC FOR EXACT CONNECTION REQUIREMENTS.	
EWC-1	ELECTRIC WATER COOLER	0.5	1-1/4"	1-1/2	0,25	1/2"	-	-	-	FIXTURE: BLAY EXSTLAWS, WALL HING, HILD GECTRIC WATER COOLER WITH BOTTLE FILLER, STAINLESS STEEL BUSIN, SELF CLOSING PUSH BUTTON VALVE CONTROLD, SELF-CONTROLD CHILLER UNDER FIXTURE, ADA COMPILANT, COORDINATE ELECTRICAL CONNECTION WITH EC. TRAP: CHROWNE PLATED CAST BRASS F-TRAP. FIXTURE SUPPORT: SEE MANUFACTURERS WRITTEN INSTRUCTIONS FOR SUPPORT BACKING.	
EWC-2	ELECTRIC WATER CODLER	0.5	1-1/4"	1-1/2	0.25	1/2"	_		_	STOPS A SUPPLES MESURE RESTALL LODGE KEY GUARTER TURN ANGE STOPS WITH CHROME PLATED ESCUTCHEONS CHROME PLATED COPPER RISER GUPPL FIXTURE. CASIS MOR RECESSED WALL MOUNTED, HILD ELECTRIC WATER COCLER, STAINLESS STEEL FINISH, SELF-CLOSING PUSH BUTTON VALVE CONTROLS, INTERFAL FILTER SELF-CONTAINED CHILLER UNDER FIXTURE, ADA COMPLIANT. COORDINATE ELECTRICAL CONNECTION WITH EC. TRAP. CHROME PLATED CAST BRASS P-TRAP.	
			<u> </u> -							FIXTURE SUPPORT: SEE MANUFACTURERS WRITTEN INSTRUCTIONS FOR SUPPORT BACKING. STOPS & SUPPLIES: MEGIJIRE HZ16TIK, LOOSE REY OUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES RIKTURE: DASIS MISSER RECESSED WALL MICHITED, ELECTRIC WATER COOLER WITH BOTTLE FILLER, STAINLESS STEEL FINISH, SELF-CLOSING PUSH BUTTON VALVE CONTROLS, INTEGRAL FILTER, SELF-CONTAINED, CHILLER UNDER PRTURE, ADA COMPLIANT, COORDINATE ELECTRICAL CONNECTION WITH EC.	
EWC-3	ELECTRIC WATER COOLER	0.5	1-1/4	1-1/2"	0.25	1/2"	_	-	_	TRAP: CHROME PLATED CAST BRASS PLTRAP. STORE SUPPORT: SEE MANUFACTURERS WRITTEN INSTRUCTIONS FOR SUPPORT BACKING. STORE SUPPLIES. McGUIRE: KEGINE, LODSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIFIES. FIRTURE: SCHEEF PRODUCTS GE-55-PS2, HOPE MOLDED SEAMLESS CONSTRUCTION, Z' INLETIOUTLET. INLET AND GUTLET DIFFUSERS. SI GALLONS LOUID CAPACTITY AT LESS GRASE SCAPACTY. 3 GEWINMAX FOVE. INSTALL Z' WASTER FROM GENTER BASIN OF SINK IN KITCHER OF PRE STATION FLANSWASTER WASTER HUB DIV	
<u>GI-1</u>	GREASE INTERCEPTOR	_	-	-	-	-	_	-	-	AS SHOWN ON DRAWNICS. CALCULATIONS: SINK BOWL DIMENSIONS: 24" x 24" x 12" DEEP =4 CU FT =30 GALLONS x 0.76 = 22.5 GALLONS DISHMASHER: PACKS PER HOUR = 32 X BALLONS PER PACK = 0.74 x 0.5 = 11.84 GALLONS TOTAL 2.25 = 1.18 = 3.94 GBL(JONS OF LOUISH PLUDING CAPACITY MORE SHE ISS OF GREUSE HOLDING CAPACITY	
<u>HB-1</u>	HOSE BIBB	=	_	_	3	1/2"	-	<u> </u>		FIXTURE: WOUDFORD MODEL 24 ANTI-SIPHON HOSE BIBB, EXPOSED COLD WATER, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION,	
<u>HR-1</u>	HOSE REEL AND HOSE	<u> -</u>	-	-	4	34"	-	-		FIXTURE: REEL CRAFT RTSSO-OLP WALL MOUNTED RETRACTABLE HOSE REEL, STEEL CONSTRUCTION, GUIDE ARM, 50" HOSE INCLUDED, 310" ID, MEDIUM DUTY, 300 PSI MAX PRESSURE, 1/2" INLET. COORDINATE LOCATION AND MOUNTING WITH GC.	
<u>IM-1</u>	ICE MAKER WALL BOX	<u> </u>	L-	L-T	11.5	172"	L-	<u> </u>	L=_	FIXTURE: GUY GRAY W9700HA WATERTIGHT RECESSED ICE WACHINE BOX, 20 GAUGE STEEL, WHITE, COLD WATER SUPPLY WITH 1/4 TURN VALVE, SWEAT CONNECTIONS, PRE-INSTALLED WATER HAMMER ARRESTOR.	
L-T	LAVATORY (ADA COMPLIANT)	1	1-1/4*	1-1/2	0,5	1/2	0,5	1/2"	4/P800	EXTURE KOMER CAXTON K-221 OVAL LAW/SOYS BOWL, WHITE VITREDUS CHINA, UNDER-MOUNT, WITH DVERFLOW, 197 ± 157, ADA COMPLIANT, AUDICET, CHINAGO RUICETS 2029 LASTOP MANUAL RANGET, 18 GOPIA AEPRATOR, POP-UP DRAIN, SINGLE LEYER, SOLID BRASS CONSTRUCTION, CHROME FINISH, CERAMIC CARTIRUSE, MOUNTED ON 4° CENTERS, ADA COMPLIANT, TRAYS, CHROME PLATED CAST BRASS PATIVAP. TRAYS CHROME PLATED CAST BRASS PATIVAP.	
<u>L-2</u>	LAVATORY (ADA COMPLIANT)	1	1-1/4*	1-1/2"	0.5	.1/2"	0.5	1/2"	4/2800	FIXTURE: KOHLER CAXTON K-221 LOVAL LAVATON'S BOWL, WHITE VITREOUS CHIMA, WIDDER-MOUNT, WITH OVERFLOW, IS TA 15, ADA COMPLIANT, FAUCET: CHIOLOGO PULCETS I RENABLA IL ELECTRONIC PALGUECT, AS OF WARTON'R TOWN DOWN THE OWNER OF CENTERS, CHRONIC SENDED, SENDED OF WATED, ELECTRONIC POWERCE, PLUCH-IN TRANSFORMER 200.580,03 FOR SINGLE FALUET, 120VAC INPUTITZVAC OUTPUT, INCLUDE BELOW BOCK MIXING VALVE 262.15.03.1, AND CHECK VALVES ON SUPPLIES TO MONING VALVE. THAP & FORMS: CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER TO STANKE CHROME PLATED CAST BRASS FTAPP, WITH GRUS TRANSFORMER BRASS FROM TO STANKE TO STANKE THE ASSOCIATION OF STANKE TO STANKE THE ASSOCIATION OF STANKE	
_			1.	 	†		-			FIXTURE: KOHLER CHESAPEAKE K-1729 WALL MOUNTED LAVATORY SINK, WHITE VITREOUS CHINA, THIREE FAUCET HOLES ON 2" CENTERS, WITH OVERFLOW, ADA	
<u>L-3</u>	LAVATORY (ADA COMPLIANT)	1	1-1/4*	1-1/2*	0,5	1/2"	0.5	1/2*	4/2500	COMPLIANT. FAUGET: GRIGADO PAUGETS 118,708,86; ELECTRONIC FALUCET, US GPM ABRATOR, TWO MOUNTING BOLTS ON A" CENTERS, CHROME FINISH, SENEGA OPERATED, ELECTRONIC POWERED, PLUS-IN TRANSFORMER 740,683,00.1 FOR SINGLE FALUET, 120MC NEVITIZANC OUTFUT, INCLINDE BELOW DECK MIXING VALVE ARL 163,00.1, AND CHICK VALVES ON SUPPLIES TO MIXING VALVE ARL 163,00.1, AND CHICK VALVES ON SUPPLIES TO MIXING VALVE ARL 163,00.1, AND CHICK VALVES ON SUPPLIES TO MIXING VALVE ARL 163,00.1, AND CHICK STATED CAST ERASS FTARE, WITH OFFSET P-TRAP, PIPE WRAP GUARD, AND CRID STRAINER DRAW. STORS & SUPPLIES MOGURE REVIEW, LOOSE KEY CUARTER TURN AND ESTORS WITH OFFSET PATE OF STORS WITH OFFSET PATE OFFSET OF STORS WITH OFFSET STORS WITH OFFSET PATE OFFSET OFFS	
<u>LT-1</u>	LAUNDRY TRAY	2	1-1/2"	1-1/2	1	1/2"	1	1/2"	-	FORTURE: MUSTER 12 UTILATUR, FLOOR STANDING TUB ON FOUR LEGS, 34" x 10" x 23-12" TUB SIZE, ONE PIECE MOLDED CONSTRUCTION. FAUCET: CHICAGO FAUCETS 1991 MANUAL, FAUCET, 22 GRM AERAYOR, SOLID BRASS CONSTRUCTION, CHROME PIANSH, MOUNTED ON 4" CENTERS. TRAP & DRAM: CHROME PLATED CAST BRASS P-TRAP, WITH GRID STRAMER DRAM. STOR'S ESUPPLIES. MICHIER MEGITAL LODGE KEY CHARTER TURKH ANGLE STOR'S WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIE	
<u>MB-1</u>	MOP BASIN	3	3°	1-1/2*	2	1/2*	2	1/2*	-	FIXTHER: MUSTEE 689 \$59.4710" HIGH BASIN, ONE PIECE MOLDED DURASTONE, INTERPAL MOLDEN IN DRAIN, 3 TORAIN CONNECTION, FAUCET: CHICAGO PALICETS SERVICE SINK FAUCET 165-ROY WITH ROUGH CHROME FINISH, 34" MALE HOSE THREADED OUTLET, PAL HOOK, ADJUSTABLE SUPPLY ARMS WITH HITEGRAL SERVICE STOPS AND LEVER HANGLES, PROVIDE WATTS MODEL BAD NON-REMOVABLE CHROME VACUUM BREAKER, TRAP & DRAIN: INTERPAL, DRAIN AND PVC 7-TAPS. TRAP & DRAIN: INTERPAL, DRAIN AND PVC 7-TAPS. ACCESSIONIES HOOS HOOSE A 5005 HOUGH EXTO 0.4 MOP HANGER 65.500.	
<u>s-1</u>	SINK (BREAK ROOM SINK)	2	1-1/2"	1-1/2	1.5	112	1,5	112"	-	EXTRICE ELVAY COURSECT ELLINDISTRIPO, IS CAUGE TYPE SIG STANLESS STEEL, SINGLE BOYL. LINGERWOUT, 15.5 -, 15 -, 2, 37T CREE, ADA COMPLAYT, COORDINATE WITH GOT THE SINK CUTOUT DIMENSIONS AND LOCATION FOR THREE FAVORT HOLES ON 4" CRITTERS IN SOLID SUPFACE COLUMNS TON. FAVORE FAVOR SIGNATOR COLUMNS TON. FAVOR	
<u>5-2</u>	SINK	2	1-1/2	1-1/2*	1.5	1/2"	1.5	1/2"	1	STOPS & SUPPLIES: MIGGINE PCINED, LOOSE KEY CHARTER TURK ANGLE STOPS WITH CHROME PLATED ESCUTCHEORS & CHROME PLATED COPPER RISER SUPPLIES TRYTHE: ELEKY COURMET ELUHADZIR, 16 GAUGE TYPE SM STANLESS STEEL, DOUBLE BOWL, UNDERNAUT, 3,7% 1,8% 1,5% DEEP, AND COMPLIANT, COORDINATE WITH GC THE SINK CUTOUT DIMENSIONS AND LOCATION FOR THREE PAUCET HOLES ON Y CENTERS AND ONE SIDES SPRAY HOLE O'TO RIGHT IN SOLD SURFACE COUNTER TOP. TRUCTET: CHICAGO FAUCETS 1102-317CP, MANUAL FAUCET WITH SIDE SPRAY, BRASS CONSTRUCTION, 2.2 GPM AERATOR, POLISHED CHROME FINSH, 8' CAST BRASS SWING SPOUT, TWO 4' WRISTELADE HANDLES, THREE HOLE MOUNTING ON 4' CENTERS WITH FOURTH HOLE O'TO RIGHT FOR SIDE SPRAY, DECK MOUNTED, ADA COMPLIANT.	
SH-1	SHOWER	2	2	1-1/2	2	1/2*	2	1/2*		TRAP. CHROME FLATED CAST BRASS P-TRAPS WITH BASKET STRAINER DRAINS. STOPS & SUPPLIES: M-GUIRE HZ16TI.L LOOSE KEY GUARTER TURK ANGLE STOPS WITH CHROME FLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES SHOWER BASS: ACORN SIGH-BUSS-TACOD ONE FICE PRECOST TERRAZZO COMPOSED OF MARBLE CHIPS, 4P x 30° SIZE, GROUND SMOOTH AND SEALED, 2" INTEGRAL DRAIN WITH STAINLESS STEEL GRID STRAINER, PROVIDE MANUFACTURERS WATERTIGHT DRAIN GASKET OPTION (-KDS2). SHOWER WALLS SHALL BE FIELD BUILT BY GC.	
<u>on•:</u>	SHURER	_		1-112	_	u2	2	112	_	FIXTURE: SYMMONS 1591-CYL-X-2.D SHOWER SYSTEM, ONOFF MIXING VALVE, FIXED SHOWER HEAD, 2.0 GPM FLOW RATE, ALL CHROME PLATED, DRAIN: MYTEGRAL DRAIN IN SHOWER BASE. SHOWER BASE, SHOWS BRADA, 483-FAVICE ONE PIECE PRECAST TERRAZZO COMPOSED OF MARBLE CHIPS, 58" a 35" INSIDE DIMENSION, GROUND SMOOTH AND SEALED, 2" MYTEGRAL DRAIN WITH STANLESS STEEL CRID STRAINER, PROVIDE MANUFACTURERS WATERTIGHT DRAIN GASHET OPTION (KOGZ), ROLL-IN TYPE, ADA COMPLIANT, SHOWER WALLS SHALL BE FIDE DUILL IF DR.	
SH-Z	SHOWER (ADA COMPLIANT)		r	1-1/2	2	1/2*	2	1/2"		FIXTURE: SYMMONS 3564-1127-ACYL-X-2.6 SHOWER SYSTEM, ONOFF MIXING VALVE, DIVERTER VALVE, RIXED SHOWER HEAD, HAND HELD SHOWER HEAD HITH 90° HOSSE IN HUND SHOWER, 2.3 GPM HLOW RATE, ALL CHROME PLATED, ADA COMPLIANT, DRAINE HITERRAL DRAINE H	
UR-1	URINAL (ADA HEIGHT)	2	2	1-1/2"	2	3/4"	-	-	-	FILISH YAU'E ZURN ZIGGAN-EWS URINAL FLUSH VALVE, DIAPHRAGM TYPE, 94° VACUUM BREAVER, EXPOSED MANUAL OPERATION, 94° TOP SPUD, CHROME FINISH, ADA COMPLIANT, SUPPORT: COMMERCIAL GRADE, WALL HUNG URINAL SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR, FIXTURE, KORLER HIGHOREST K-4902, WHITE VITREOUS CHINA, FLOOR MOUNTED, 1-12° TOP SPUD, 2.25° PASSAGEWAY, 1,6 GPF, ADA COMPLIANT,	
<u> </u>	WATER CLOSET (ADA HEIGHT)	6	r	z .	6,5	1-1/2"	-	-		FLUSH YAVE ZURN ZERRIAVNS-LOF WATER CLOSET DUAL FLUSH VALVE, DIAPRICASH TYPE, 1" VACULUM BREAKER, EXPOSED MANUAL OPERATION, PUSH UP FOR 1.1 GFF FURSH DOWN FOR 1.5 GFF, 1.1" TO SPUD, CHRONE PLATED, NICLIDE OPERATION SIGNAT OF REAL PROPERTY OF STATEMENT	
WC-2	WATER CLOSET (STANDARD HEIGHT)	6	۴	τ	6.5	1-1/2	-	-		FLUSH VALVE: ZUMY ZBORGA-VYSI-DF WATER CLOSET DUAL FLUSH VALVE. DIAPHRAGM TYPE, 1" VACUUM BREAKSF, EXPOSED IMMUAL OPERATION, PUSH UP FOR 1.1 OPF / PUSH DOWN FOR 1.6 GPF, 1-10" ("DO "SADO, CHROME PLATER). INCLUDE O'PERATION SIGNACE. SEAT, KOHLER KUSTRA K-46PC-A, O'PEN FRONT TOLIET SEAT, INJECTION MOLDED, WITH ANTH-MICROBIAL AGENT. SUPPORT: COMMERCIAL GRADE, WALL HUNG WATER CLOSET SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR.	
NC3	WATER CLOSET (ADA HEIGHT)	6	4	2	6,5	1-1/2*	-	-		SAME AS WC-2, MOUNTED AT ADA HEIGHT.	
NF-1	WASH FOUNTAIN	2	1-1/Z*	1-1/2	1.5	r	1,5	ſ	-	FIXTURE BROULEY WESSON-STOP-RISD-GRANITO-THA SENI-CIRCULAR WASH FOUNTAIN, 54" SEMI-CIRCULAR TERRAZZO BOWL, 3 GPM SPRAY, FOOT RAIL OPERATED, INCLUDE BELOW DECK THERMOSTATIO MIXING VALVE (TIMA). TEMP & DRAINE CHROME PRATED CAST BRASS PATROP, WITH OFFSET P-TRAP, PIPE WRAP GUARD, AND GRID STRAINER DRAIN. STOPS & SUPPLIES: BALL VALVES UNDER UNIT WITH CHROME PLATED ESCUTCHEONS AND COPPER CONNECTIONS TO UNIT.	
<u>NM-1</u>	WASHING MACHINE WALL BOX	4	r	1-1/Z	2	3/4"	2	3/4*	5/2800	FIXTURE: GUY GRAY T200TFCP/VCNA WASHING MACHINE RECESSED WALL BOX, WHITE POWDER COATED FINISH, 1/2" QUARTER TURN HOT & COLD VALVES, INTEGRAL WATER HAMMER ARRESTORS, 2" DRAIN OUTLET.	
	PLUMBING DRAIN & CLEANOUT SCHEDULE										
ID	FIXTURE		VASTE	0	ETAIL/	DESCRIPT	non/RE	MARKS		·	
	Į DF	-∪ j T	RAP V	241	. ~ - 1					22222222222	

						F	PLUMBING DRAIN & CLEANOUT SCHEDULE
	ID	FIXTURE	DFU	WASTE	VENT	DETAIL/ SHEET	DESCRIPTION/REMARKS
	CB-1	CATCH BASIN	4		2^	9/P80D	CONCRETE CATCH BASIN WITH FRAME AND GRATE BASIN SHALL CONFORM TO ASTM 478) REFER TO DETAIL
A	<u>FD-1</u>	FLOOR DRAIN	3 4	2° 3° 4°	1-1/2 1-1/2 2	7/P800	FIXTURE: ZURN ZNA15-S, CAST IRON BODY, 6" DIAMETER NICKEL BRONZE "TYPE 8" STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR.
	FD-2	FLOOR DRAIN	4	4"	z	7/12800	FIXTURE: ZURN ZN508, CAST IRON BODY, 9" DIAMETER NICKEL BRONZE TOP, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP & FRAME, AND HEAVY DUTY DEEP FLANGE SLOTTED GRATE.
	<u>RD-1</u>	RDOF DRAIN	-	_	-	-	FIXTURE: ZURN ZC100-C-EA-R ROOF DRAIN, CAST IRON BODY, 15" DIA, COMBINATION MEMBRANE FLASHING CLAMPIGRAVEL GUARD, UNDERDECK CLAMP; ADJUSTABLE EXTENSION, ROOF SUMP RECEIVER, AND CAST IRON STRAINER.
	<u>HD-1</u>	HUB DRAIN-ABOVE GRADE	3 4 6	Z' 3' 4'	1-1/2" 1-1/2" 2"	71P800	FIXTURE: ZURN Z415 LESS STRAINER WITH ZURN Z4004 ADJUSTABLE STRAINER EXTENSION, CAST IRON BODY WITH SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP, EXTEND HUB 2" AFF [MIN], INSTALL PIPE INCREASER ONE PIPE SIZE LARGER.
			T				FINISHED AREAS WITH HARD FLOORS; ZURN ZN1400-BP, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP & BRONZE PLUG.
	FCO	FLOOR CLEANOUT	-	-	-	-	FINISHED AREAS WITH CARPETED FLOORS; ZURN ZN1400-BP-CM, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP & BRONZE PLUG, WITH CARPET MARKER.
							UNFINISHED AREAS: ZURN 2N1474-N, CAST IRON BODY, HEAVY DUTY CLEANOUT HOUSING, WITH NICKEL BRONZE TOP & INTERNAL CLEANOUT.
	WCO	WALL CLEANOUT	- 1	_	_	_	FIXTURE: ZURN ZS1488, POLISHED STAINLESS STEEL, ROUND ACCESS COVER, SECURING SCREW & BRONZE RAISED HEX HEAD PLUG, VERIFY LENGTH OF SCREW REQUIRED WITH WALL CONSTRUCTION.

		_			
MATER CALCILIATION MODE	CLIEET	PLUMBING	LEGEND		
WATER CALCULATION WORK	OHEEL		EXISTING PIPING TO BE REMOVED/DEMOLISHED	ABB	REVIATIONS
			EXISTING PIPING (SERVICE DESIGNATED)		COMPRESSED AIR
WATER CALCULATION WORKSHEET FOR FIRE STATION #1 & NEW ADMIN OFFICES / 316 W. DAYT	DN ST. MADISON, YI		SANITARY DRAIN, WASTE OR SEWER (SAN)	AC AD	AIR COMPRESSOR AREA DRAIN
NAME/ADDRESS OF PROJECT			STORM DRAIN CONDUCTOR OR SEWER	ΑF	AROVE FINISHED FLOOR
INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE			OVERFLOW DRAIN	AD	AIR OUTLET
1. DEMAND OF BUILDING IN GALLONS PER MINUTE. WSFU's × 272.5	(GPM) 105		GREASY WASTE	BYYY	BACKWATER VALVE
2. DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.	Heet) -10		CLEAR WATER WASTE	CB.	CATCH BASIN
3. SIZE OF THE WATER METER. MIKEN APPLICABLE!	(inches) 1-1/2"		WASTE UNDER FLOOR SLAB	CD CP	CLEANOUT CIRCULATION PUMP
4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.	(leet) Scr		VENT (V)	CS	COLD SOFT WATER
5. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK.	(oslg) 75	····	CLEAR WATER VENT	CWW	COLD WATER CLEARWATER WASTE
The state of the s	10211		COLD WATER	CWV	CLEARWATER VENT
CALCULATE WATER SERVICE PRESSURE LOSS			HOT WATER	DFU	DRAINAGE FIXTURE UNIT
IL LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK, (VALUE OF #5 ABOVE)			HOT WATER RECIRCULATION	DW	DISHWASHER
F COLL LAST ONE ALL WARRING DATE OF EXPENSE OF THE PARTY OF THE STATE OF A STATE OF THE STATE OF	75,00		NON-POTABLE COLD WATER .	E	EXISTING
T. WATER SERVICE DIAMETER IS & MATERIAL IS DUSTILE BROW PRESSURED			COLD SOFT WATER	EC	ELECTRICAL CONTRACTOR ELECTRIC WATER COOLER
			COMPRESSED AIR		
PER 100 FT = 0.2 PSIX 0.5 DECIMAL EQUIVALENT OF SERVICE LENGTH, LE; 66F			NATURAL GAS	FCO	FIRE PROTECTION WATER SERVICE FLOOR CLEANOUT
(SUSTRACT LINE 7, FROM LINE 6.)	SUSTOTAL T4.50		DOMESTIC WATER SERVICE	FPC FT	FIRE PROTECTION CONTRACTOR FEET
			TEE (BRANCH TO SIDE)		
II. DETERMINE PRESSURE GAIN OR LOSS DUE TO ELEVATION.		-=-	TEE (BRANCH DOWN)	GC GC	NATURAL GAS GENERAL CONTRACTOR
(MULTPLY.THE VALUE OF #2 ABOVE BY ,434)	ALUE OF TO 4.34		RISER UP	GI	GREASE INTERCEPTOR/TRAP
			RISER DOWN		GREASY WASTE
 AVAILABLE PRESSURE AFTER THE BLDG, CONTROL VALYE. 		l	CLEANOUT (CD)	HB	HOSE BIBB HVAC CONTRACTOR
(SUBTRACT OR ADD LINE 6, ENTER IN "R".)	SUBTOTAL 19.24	OR ,	WALL CLEANOUT (WCD)	HD	HUB DRAIN
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")			FLOOR CLEANOUT (FCO) YARD CLEANOUT (FCO)	HR	HOSE REPL HOT WATER
B. AVAILABLE PRESSURE AFTER THE BLDG, CONTROL VALVE. (FROM "S" ABOVE)	ALUE OF BT 75.24		UNION	HWR	HOT WATER RECIRCULATION
			FLANGE	ΙE	INVERT ELEVATION
C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED OR INSTALLED)	ALUE OF "C"		FLOW	IM	ICE MAKER WALL BOX
INSURTRACT LINE C. FROM LINE B.)	SUBTOTAL 71.24		CHECK VALVE	Ł	LAVATORY
D. PRESSURE AT CONTROLLING FOTURE.	ALUE OF *D* 25.00		HOSE BIBS (HB) OR WALL HYDRANT (WH)	ĹŦ	LAUNDRY TRAY
(CONTROLLING FATURE IS SHOWER ON THIRD FLE ADMIN)		EXISTING (NEW	POINT OF CONNECTION (POC)	M MB	METER
(SUBTRACT THE VALUE OF D.)	SUSTOTAL 4524		CAP		MOP BASIN
, , , , , , , , , , , , , , , , , , ,		б	BALANCING VALVE	NC NPC	NORMALLY CLOSED NON-POTABLE COLD WATER
E. DIFFERENCE IN ELEVATION BETIYEEN THE BUILDING CONTROL VALVE		₩	SHUT-OFF VALVE		
	LUE OF 15:19		PIPE STRAINER	PC PS(PLUMBING CONTRACTOR POUNDS PER SQUARE INCH
- The state of the	SUBTOTAL 31.05	—×	FIXTURE STOP	RPSP	REDUCED PRESSURE ZONE BACKFLOW
(anations inc table of E)	SUBIUIAL 31.05	o +	VALVE IN RISER	M. Die	PREVENTER
F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER		D	THERMOMETER	s	SINK
HEATERS AND BACKFLOW PREVENTERS WHICH SERVE THE CONTROLLING FIXTURE		(စ်	PRESSURE GAUGE	SAN	SANITARY
	LUE OF T 1S			SE SH	SANITARY EJECTOR SHOWER
THE TOTAL CONTRACT OF THE TOTAL CONTRACT OF		T	WATER HAMMER ARRESTOR	SP ST	SUMP PUMP STORM
(SUBTRACT THE VALUE OF FIT	SUBTOTAL 19.05	م	RELIEF VALVE		
G. DEVELOPED LENGTH FROM SUILDING CONTROL VALVE TO CONTROLLING		-wi\\\\\\-	RPBP - REDUCED PRESSURE ZONE	סד	TRENCH DRAIN
				UR	URINAL
	LUE 0F*6" 840.00	መ		y	VENT
	SUBTOTAL 0.0191	ŏ	HUE DRAIN (HD)	VTR	VENT THRU ROOF
MYATER DISTRIBUTION PIPING MATERIAL IS TYPE 1' COPPER		0		w	DOMESTIC WATER SERVICE
	JETTPLY BY 100			WC0	WATER CLOSET WALL CLEAN OUT
A. PRESSURE AVAILABLE FOR UNIFORM LOSS VA	LUE OF "A" 1.91	Ø		WM WH	WASHING MACHINE WALL BOX WALL HYDRANT
		€	HEN THORNELED HOLE	WHA	WATER HAMMER ARRESTOR
FORMULA: A= B-(C+D-E+F) X 100		A		WHR WS	WATER HEATER WATER SOFTENER
G X,100		(A)		WSFU	WATER SUPPLY FIXTURE UNIT
				YCO	YARD CLEANOUT

					Е	JE	EC	TO	RS	3 A	ND	SUMP PUMPS SCHEDULE
ID	MANUFACTURER MODEL #	HP		TRICAL		RPM		IARGE		SIN .	DETAIL/ SHEET	DESCRIPTION/REMARKS
	MODELF	HP	AMPS	VOLTS	PHASE		GPM	HDFT	DIA	DEPTH		
												FLOOR MOUNTED EJECTOR, STAINLESS STEEL CASE, PPO IMPELLER, 304 STAINLESS STEEL STRAINER AND HARDWARE, SINGLE SEAL MOTOR, AIR FILLED SHAFT, 1-IM* DISCHARGE, 20 FT POWER CORD, OVERLOAD PROTECTION.
<u>SE-1</u>	BAG SCS21	1/4	25	115	1	3450	10	12	24*	24"	7	CONTROLS: ALDERON VERSALARM 7001 TANK ALARM. HIGH WATER ALARM AND PANEL, HIGH WATER ALARM FLOAT. PROVIDE ALL MOUNTING ACCESSORIES.
												BASIN & COVER: EJECTOR BASIN INSTALLED BY HOVDE BUILDING CONTRACT. PC SHALL PROVIDE BOLTED LID TO MATCH BASIN BOLT) PATTERN, WITH GROMMETS FOR PIPE AND CONDUIT.
						-					'	FLOOR MOUNTED EJECTOR, CAST IRON CASE, BRONZE IMPELLER, 314 STAINLESS STEEL STRAINER & HARDWAYE, SINGLE SEAL MOYOR. DOUBLE SEALED BEAVINGS, AIR FILLED HERMETICALLY SEALED SHAFT, 1-14" DISCHARGE, 15 FT POWER CORD, OVERLOAD PROTECTION.
SE-2	WEIL 1408	1/3	7.2	115	1	1750	15	18	24*	60*	- 1	CONTROLS: WELL BY IS FACTORY WIRED WALL MOUNTED SIMPLEX CONTROL, PANEL, STEEL CONSTRUCTION, SINGLE PHASE, PIRMA 1 ENCLOSINE, MANUAL DISCONNECT NOM DOTCO RIGHT PROTECTION. THROUGH THE DOOR RESET, RUNNING PLOT LIGHT, HIGH WATER AZAM LIGHT AND BUZZER WITH DISABLING SWITCH. INCLIDE WELL 829K1004G PLOAT SWITCHES: OFF (HST), ON (+187), AND HIGH WATER AZAM LIGHT AND BUZZER WITH DISABLING SWITCH.
												BASIN & COVER: EXISTING TO REMAIN,
												FLOOR MOUNTED EJECTOR, CAST IRON CASE, BRONZE IMPELLER, 304 STAINLESS STEEL STRAINER AND HARDWARE, SINGLE SEAL MOTE DUBLE SEALED BEARINGS, AIR FILLED HERMETICALLY SEALED SHAFT, 1-14* DISCHARGE, 15 FT POWER CORD, OVERLOAD PROTECTION.
SP-1	WEIL 1408	1/3	7.2	115	1	1750	30	21	18*	24"	EVP-000	CONTROLS: WELL 8116 FACTORY WINED WALL MOUNTED SIMPLEX CONTROL PANEL, STEEL CONSTRUCTION, SINGLE PINES, FROM 1 ENCLOSURE, MANUAL DISCONNECT AND MOTOR CRECITY FROTERIOR. THROUGH THE DOOR REST, RUNNING PLOT LIGHT, HIGH WATER AARM LIGHT & BUZZER WITH DISABLING SWITCH, INCLUDE WELL 8220 TETHER POLE WITH THREE PRESSURE DIAPHRAGM SWITCHES: OFF, OR, & HIGH WATER AARM.
			•									BASIN & COVER: BASIN INSTALLED BY HOVDE BUILDING CONTRACTOR, PC SHALL PROVIDE PERFORATED LID.
- 1	٠. ا			İ				- 1				TWO (2) FLOOR MOUNTED EJECTORS, STAINLESS STEEL CASE, PPO IMPELLER, 304 STAINLESS STEEL STRAINER AND HARDWARE, SINGLE SEAL MOTOR, AIR FILLED SHAFT, 1-1/4" DISCHARGE, 20 FT POWER CORD, OVERLOAD PROTECTION.
SP-2	B&G SCS31M (DUPLEX)	1/3	4.5	115	,	3545	30	10	36"	30*	-	CONTROLS: CENTRIPRO DIOBONI FACTORY WIRED WALL MOLINED DUPLEX CONTROL, PANEL STEEL CONSTRUCTION, SINCE PHASE, NEMA I ENCOLORIE, MANUAL DISCONNECT AND MOTO CIRCUIT PROTECTION, HIGH WATER ALARIL LIGHT AND BUZZER WITH DISABLING SWITCH. INCLIDE FOUR (I) CENTRIPRO ACROSS FLOAT SWITCHES: OFF (42"), ON (40"), STANDBY (412), AND HIGH WATER ALARIN (44).
						i				.		BASIN & COVER: TOP INDUSTRIES DOUBLE WALL FIBERGLASS BASIN MOUNTED ON EMERGENCY GENERATOR VAULT FLOOR, PROVIDE BOLTED LID WITH GROMMETS FOR PIPE & CONCUIT, AND 2" VENT IN COVER AND GOOSENECK 12" ABOVE COVER.
Ì									T		- 1:	THO (2) FLOOR MOUNTED EJECTORS (DUPLEX), CAST IRON CASE, BRONZE IMPELLER, 304 STAINLESS STEEL STRAINER AND HARDWARE, SINGLE SEAL MOTOR, DOUBLE SEALED BEARINGS, AIR FILLED HERMETICALLY SEALED SHAFT, 2" DISCHARGE, 18 FT POWER CORD, OVERLOAD PROTECTION.
SP-3	WEIL 1411 (DUPLEX)	1/2	2.9	206	з	3450	35	20	36*	60*	-	CONTROLS, WELL HAS RACTORY WINED WALL MOUNTED DUBLES CONTROL PANEL, STEE, CONSTRUCTION, SINGLE PHASE, RUBA 1 RACK OUSUME, MANUAL DISCONNECT AND MOTOR CIRCUIT PROTECTION, 1-RHOGGIN THE DOOR RESET, RUNNING BLOT LIGHT, HIGH WATER ALAMA LIGHT AND BUZZER WITH DISABLING SWITCH, INCLUDE WELL EZSKLINGIG FLOAT SWITCHES: OFF (+6), ON (+187), STANGET (+27), AND HIGH WATER ALAMA (497).
		1										SASIN & COVER: EXISTING TO REMAIN. ADD 2" VENT IN COVER AND GOOSENECK 12" AFF.

								W	ATE	RS	SOF	- T E	ΞNE	ER SCHEDULE
ID	MANUFACTURE	MODE	. #	GPM	M. PRI		GRAINS APACITY/	RESIN	TANK SIZE	9	ALT STORA	/GE	DETAIL/	DESCRIPTION/REMARKS
			CC	NT PE	EAK DR		LBS SALT	DIA	HEIGHT	DIA	HEIGHT	LBS	SHEET	DESCRIPTION CENTRAL
WS-1	HELLENBR H200M-15		7	2 !	94 1	5 1	40,000/50	21	52	24	50	750	10/P600	TWO (2) UNITS, TWIN ALTERNATING SYSTEM, 2" INLET/OUTLET, 2" METER, FULLY PROGRAMMABLE LCD DISPLAY, 5 CUBIC FEET OF MINERAL AND BRINE TANK. 120 VOLT PLUG CONNECTION.
Ŀ							С	ΊR	CUI	LA	TIO	ΝΙ	PUI	MP SCHEDULE
ID .	MANUFACTURER MODEL #	HP		TRICAL	PHASE	RPM	GPM		DETAIL/ DETAIL/ DETAIL/	DESCRIP	TION/REM	ARKS		
CP-1	B&G NBF-36	FRAC	2.3	120	1	3300	-	25	1/mans 1	N-LINE C	IRCULATO SET TIME	R LUBF	CATED, I	CERAMIC SHAFT, CARBON BEARINGS, LEAD-FREE BRONZE BODY, BUILT-IN THERMAL PROTECTION. INCLUDE TIMER ITION OFFICE BUILDING (TOURS OF 7AM-7PM (ADJ), PUMP TO OPERATE DURING BUILDING OCCUPIED HOURS.

_								-
					BUILT-IN THERMAL F			R
318	VATION OFFICE BU	ALDINE HOURS I	r ram-rem (AU.), PUMP TO OPE	OATE DURING BUILD	ING OCCUPIE	D HOURS,	

PLUMB	ING SHEET INDEX	
P000	SYMBOLS, ABBREVIATIONS AND SCHEDULES - PLUMBING	_
PD100 ~	FS#1 BASEMENT DEMOLITION PLAN - PLUMBING	
PD101	FS#1 1ST FLOOR DEMOLITION PLAN - PLUMBING	
PD102	FS#1 2ND FLOOR DEMOLITION PLAN - PLUMBING	
PD103	FS#1 3RD FLOOR DEMOLITION PLAN - PLUMBING	
P100	FS#1 BASEMENT AND ADMIN LOWER LEVEL PLAN - PLUMBING	
P101	FS#1 1ST FLR AND ADMIN GROUND FLOOR PLAN - PLUMBING	
P102	FS#1 2ND FLOOR AND ADMIN MEZZANINE PLAN - PLUMBING	
P103	FIRE STATION #1 3RD FLOOR PLAN - PLUMBING	
P104	ADMINISTRATION 2ND FLOOR PLAN - PLUMBING	
P300	RISER DIAGRAMS - PLUMBING	
P301	RISER DIAGRAMS - PLUMBING	
P302	RISER DIAGRAMS - PLUMBING	
P303	RISER DIAGRAMS - PLUMBING	
P304	RISER DIAGRAMS - PLUMBING	
P800	DETAILS - PLUMRING	



eppstein Uhen: architects
miliauher
333 East Caleage Street,
Miliauher, Wisconelle Schre
444 271 SSS Ca. 444 271748
madian
222 Worl Walden Arc. Sale 55
Madison, Wisconelle S3703
M 505 442 SSS Ca. 656 442 6560



EJDR HINGE

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS

DATE DESCRIPTION
1 01/30/2015 ADDENDUM 1

KEY PLAN

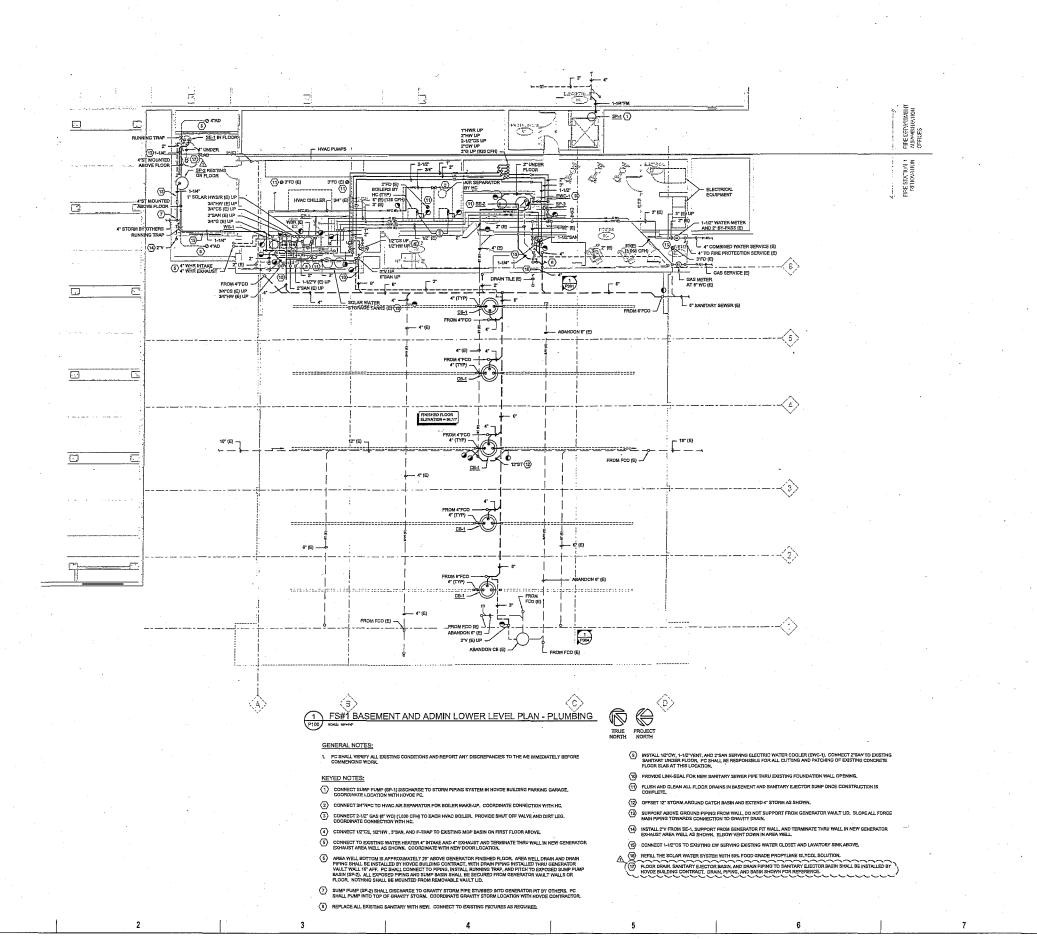


SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 01/09/2015 DATE

SYMBLS, ABBREV. AND SCHEDS - PLUMBING

P000





eppstein uhen : architects

madison 22 West Washington Are.
Madison, Wisconsin let 656 442 5350 tax 656 4

Proper Engineers in

PROJECT INFORMATION

Fire Station
Administration Office
Building and Fire
Station No. 1
(Hovde Properties
Tenant Improvements)
Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

C REVISIONS

DATE DESCRIPTION
1 EUROZOUS JADIENDUNI

KEY PLAN



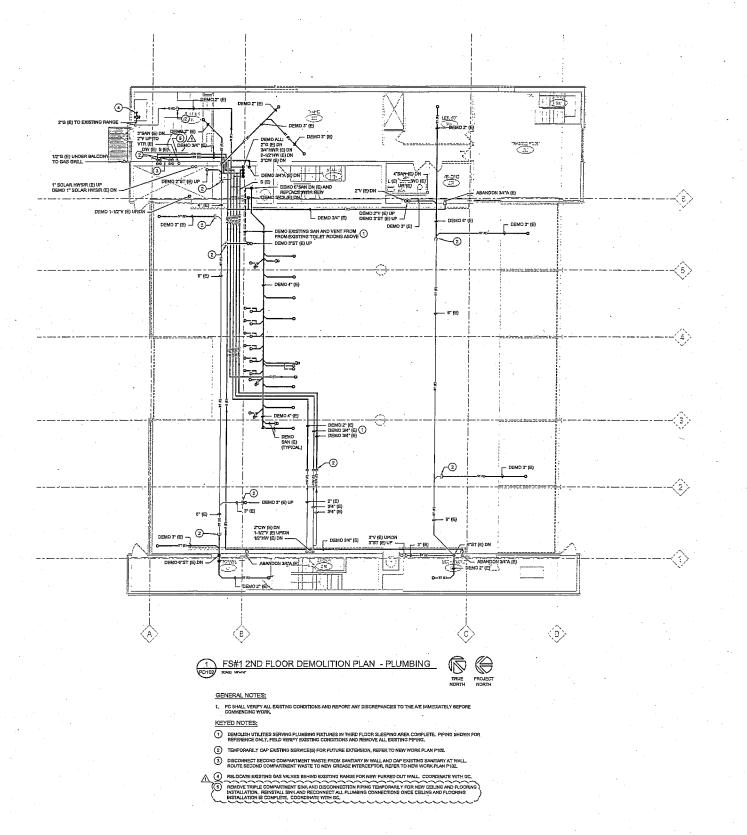
SHEET INFORMATION

PROJECT MANAGER	C
PROJECT NUMBER	1214
DATE	01/09/201

FS#1 BASEMENT AND ADMIN'LOWER LEVEL PLAN - PLUMBING

P100

© Francisia Ultera Architecto for



С



eppstein uhen : architects
milwaukas 3.3.3 East Chicaga Street
Milwaukas Niconalia S202
Mad 27 ISSO 6.4 42 27174
madison 22.2 Well Woldgate Ans Sabe 50
Mad 650 A Wilson in 53703
Mad 654 42 SSS 1A 504 42 500



IN JDR

PROJECT INFORMATION

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS

DATE DESCRIPTION
1 01/38/20/15 ADDENDUM 1 C

KEY PLAN

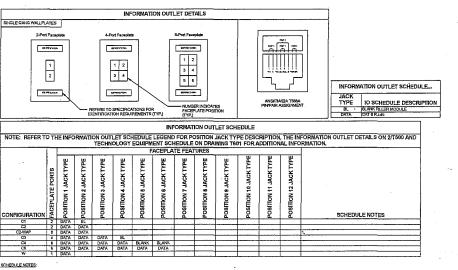


SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 DATE

> FS#1 2ND FLOOR DEMOLITION PLAN -PLUMBING

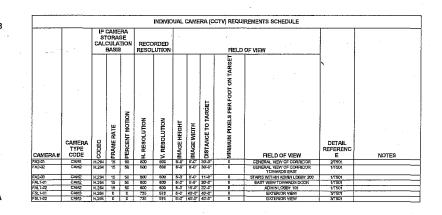
> > PD102



CAMERA (CCTV) TYPE SCHEDULE

										С	ONT	ROL	LED	SEC	URN	Y SC	HEN	Æ (C	:55)	TYP	ESC	HED	ULE								
ELEC	TRO	NIC I	XXXI	R H/ OR.	RDV REF	VARI ER T	SU O TH	CH A	S EL	ECT	RIC	STR	IKES IPMI	, ELI	ECTI SCH	EDU	ATC E O	H RE	TRA	CTIC	ON, E 601	TC.	CRE	L BI	PR TIAL	OVID REA	ED /	AND YY	INS PE!	TALLED BY GENERAL NFORMATION.	
	Г		EDI			Г									R	EQU		TO	Г						_		T .				
		<u> </u>	REA	DER	_		_	_	NTE	GRA	TJO	1				E)	(T		_		DOO	R HA	RDV	VAR	Ε		-	THE	R		
DOOR#	ROUGHAN ONLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	WIRELESS	AUTOMATIC DOOR OPERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	INFANT PROTECTION	NTERCOMINTEGRATION	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	WANDER PREVENTION SYSTEM	INTERNAL ELECTRIFIED HARDWARE CONNECTION	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	REMOTE PUSH BUTTON OVERRIDE	ELECTRONIC LOCKING HARDWARE (BY GENERAL CONTRACTOR)	MAGLOCK	LATCH STATUS DETECTION	LOCAL ALARM HORN	MONITOR LATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR MAGNETIC POSITION SWITCH	DELAYED EGRESS	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	NOTES	
M105	_	CRI	_		_	_	1	_	_	_	_	_			•	Ĺ	-	_	•	_			_	•		1		L	-		
MZ-05		CRI							_						٠				·					·							
261C 2658	_	CR1			_	\vdash		-	├	\vdash	_			-	•	_			:	-			-	÷	-		-		-		
254A	-	CRI		_	_	\vdash	_	_	├-	Н				-	÷	-		-	÷	-	_		-	÷	_				-		
254B	-	CRI	-	-	-	-		_	-					_	÷	-			÷	-	-		-		-						
233		CR1						-	_						•	$\overline{}$		-	•	-	-		-	•							
235		CR1		-	-			-	1							$\overline{}$	-		•	-				•			_	_			
223		CR1		-	$\overline{}$	$\overline{}$		_	1	7.7					٠		$\overline{}$	·						-							
200		CR1						1							٠			1	•	Ψ.				·							
252		CR1													٠				•					•							
2618		CR1						L							·				•					•							
257		CR1													•				•	_				·				_	L		
115		CR1							<u> </u>	•					١				•	_				·	L		_		_		
104A	\vdash	CR1						_	_	•	_	_	_	\vdash	•	_			·	_		L		•			_		L		
104B	_	CR1	\Box		_	\vdash		_	<u></u>			_	_	\vdash	٠	_		<u> </u>	·	_	_	_	_	•		-					
101	_	CR1	\Box		-	\vdash		<u> </u>		_		_	_	\vdash	٠	_	<u> </u>	_	•	-	_	_	_	•							
100B		CR1			_			-	_					L	•	-	-	_	•	_	_		-	·		_	\vdash	_	-		
110		CR1	L		L			_	⊢	ш				L	٠	_	_		•	_				•	_			_	-		
104	_	CR1							-	-			_		٠				•	_	_	_	_	•		_	_		-		
M111		CR1												L	٠				•	_	_	_	_	•	<u></u>			L	ļ		
105	L	CRI				L			ـــــ	\vdash		\perp		L	٠				•	_	_		Ь	•				<u> </u>	-		
242	<u> </u>	CR1	\perp						┞	L				-	٠	_	_	_	·					•	\vdash	-			-		
ELEY	⊢	CR1	\vdash	-		-	٠		ļ					-	٠	<u> </u>	_	<u> </u>	•			<u> </u>		•	_	-			-		
201A	Ь.	CR1	\Box			\vdash			┞	٠			-	-	٠	<u> </u>	_		•	L		⊢	_	•	_		_		-		
201B	<u> </u>	CR1							⊢	٠	\Box	-	_	<u> </u>	•	-	-	_	٠	_	ـــــــــــــــــــــــــــــــــــــ			·	-		_	\vdash	-		
230D																															

ENCLOSURE MOUNT PEATURES ON STATE OF THE PROPERTY OF THE PROPE



C



eppstein uhen: architects
milweuker 3.33 East Chicago Street
Milwauker, Witscanio S7077
id 44 27 1350 e. 44 27 1750
madisan 22 Weet Nobengien Ave, Salv. 80
Madisen 17 1 con 16 57 30 160 44 25 500



画JDR 盟sores

PROJECT INFORMATION

Fire Station
Administration Office
Building and Fire
Station No. 1
(Hovde Properties
Tenant Improvements)
Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS

BID DOCUMENTS

REVISIONS

DATE DESCRIPTION
1 STARBORDS ADDIBITION

KEY PLAN



SHEET INFORMATION

SER CG
R 12149
01/30/2015



SCHEDULES -TECHNOLOGY

T600

sion Uhan Architects, Inc.

RESPO	MANUE FOR VER	TECHNOLOGY EDMINIENT SICHERALE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. FACH FIRCATION OF GUANTITIES AND SHALL PURMENHALL MAYERIAL RECURRED, YMETHER SPECIFED OR NO SYSTEM.	CONTRACTOR SHALL BE NOT, TO PRODUCE A
CATAL MATER OF THE		NG SYSTEM. ALL NOT SE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AND THE CONTRACTOR IN THE SEAR GUEED OF MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST REAC RESS CONTRACES AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGNED AND AREACTER TO A CONTRACTOR OF DESIGNED AND AREACTER OF A CONTRACTOR OF DESIGNED AND AREACTER OF A CONTRACTOR OF DESIGNED AND AREACTER OF A CONTRACTOR OF DESIGNED AND AREACTER OF THE PROPERTY OF DESIGNED AND AREACTER OF THE PROPERTY OF THE PROP	CH FOR MATERIAL NO THE COMPLETE DESCRIPTION R. "STANDARD COLOR"
_		y	,
MEM NO.	TAS NAME	DESCRIPTION	APPROVED MANUFACTURERS
1.	2C-10-M	INFORMATION DUTLET, YALL MOUNT, 2.4, S-PORT COVERPLATE AS INDICATED ON DRAWINGS, REFER TO DRAWING TIME FOR PIN CONFIGURATION.	COVERPLATE: HU68E21
		"#" INDICATES INFORMATION DUTLET FACEFLATE CONFIGURATION AS INDICATED ON THE PLANS, REPER TO DRAWING 7600,	FP SERIES SYSTMAX
		"Y" PROVIDE III RA45 JACK FOR VOICE AT 44" AFF FOR WALL HANG PHONE PROVIDE YITH STANLESS STEEL FACEPLATE, MATING LUGS, (HUSSELL HELDSASTIC JE.	BELDEN ORTRONICS
			JACK:
		INSTALL RIFORMATION DUTLET IN A 4" SQUARE BACKBOX VITTH A SINGLE GANG PLASTER RING, INSTALLA 1" FEMT CONDUIT TO ABOVE ACCESSBILE CRITISIO, PROVIDE REMOVABLE BLANK INSERTS FOR UNEXED PORTS PUBBLELL STORING.	HURBELL CATE: HAUG GERLES
		REFER TO 2/T500 FOR ROUGHAY DETAIL	STSTRIAX BELDEN ORTRONICS
2	5040-0	INFORMATION OUTLET, CEILING MOUNT, 2.4. CPORT COVERPLATE AS INDICATED ON DRAYMAGE, REPER TO DRAYMAGE TROUGH PILCOLHEDURATION.	COVERPLATE:
		DRIVINGS, REPER TO DRIVING TWO FOR PTI CONHIGURATION AS INDICATED ON THE PLANS, REPER TO DRIVING FOUL	HUBBELL IFP SERIES
			SYSTEMAX BELDEN CRTRONICS
		NISTALL NEORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SNIGLE GANG PLASTER, RNG, NISTALL A 1" EAST COMBUTE IN BRYOND BOX, AND TEXNANATE WITH A NYLON BUSHING, RNGUE REMOVINGEE BACK, NISBUTS FOR UNUSED PORTS BY BRIDGLES, 1881 18,	
		-	JACK: HUBBELL CATS: HALK SERIES
			SYSTEMAX BELDEN
3	SCHWAR-C	INFORMATION OUTLET FOR WIRELESS ACCESS POINT, CEILING MOUNT, TERMINATE WITH A	ORTRONICS
		INFORMATION OUTLIET FOR WRITELESS ACCESS FORT, CEILING MOUNT, TERMINATE WITH A RUS PLUS FOR DRECT CONNECTION TO OWNER PROVIDED WHITELESS ACCESS FORT, REFER TO DRAWNIS TOST (OR PIN CONFICURATION, CONTRACTOR TO INSTALL OWNER: PURMISHED WIRELESS ACCESS PORT.	
1	SCHOP	INFORMATION CUTLET, POKE-THROUGH MOUNT, FIRE RATED, 4 HOUR RATING, TWO [2] IT ENT	HUESELL
ļ		PROMOTION OF THE PROPERTY OF T	SYSTEM ONE SIFTHI SUBPLATE
-		"#" INDICATES INFORMATION DUTLET FACENTATE CONFIGURATION AS INDICATED ON THE PLANS, REFER TO DRAWNO TED.	S1SP SEMES
		PLANS, REFER TO DRAWING TEDS.	SYSTIMAX BELDEN ORTHONICS
		1	ACK:
			CATE: HAJE SERVES
ĺ			STSTMAX BELCEN ORTRONICS
5	SC-IO-EW	POXE-THROUGH, FREE RATED, 4 HOUR PATING, TWO (2) IT BATT CONDUITS, PROVIDE WITH PURITURES FEED FLATE.	HYDERELL
		PURVITURE FEED FLAYE.	SYSTEM ONE SIPTETT
			FURNITURE PLATE SISPFF SERIES
	SC-RI-W	TECHNOLOGY ROUGHIN, FLUSH MOUNT ON WALL OR AS NOTED IN PLANS PRINCIPS WORLD	WINEHOLD .
1		TECHNOLOGY ROUGHM, FLUSH MOUNT ON WALL OR AS NOTED IN PLANS, PROVIDE WITH A C'SOUARE BACKOL STOLE GAME PLASTER RING, BLANK, COVERPLATE MID A YEM! CONCURS TO ARVIE ACCESSIBLE CELLING.	
.7	SC-ER-1	PROMENT FACE, A "BIRE, TAYADARD OF MINITAD SPACE, C" MISS, AT DESP VENIGATE POTUSING PAST-PROMENT PROMEST FROM THE STATE OF CASE MANASHER FROM THE TYPO THE RACK, MIDILAGE ADMINISTRATION OF VENTUAL DISSANCIARS, MICHAEL HISTORY DOORS PROMEST OF SER SACK, FONDER CONTENS MANASHER, LETAN, HISTORY DOORS PROMEST OF SER SACK, FONDER CONT FRISH, MICET'S SHA-TIDE REDUREMENT, PROVIDER NOT, DURBALL SEACK FONDER CONT FRISH, MICET'S SHA-TIDE REDUREMENT, PROVIDER NOT, TO MONITOR TO MONITOR THE SEACK FONDER CONT.	HURSELL HPWWWRRR190
		TWO FER RACK MIDDILAR DHINGS ON FRONT OF VERTICAL DREAMCERS, METALHINGED DOORS PROVIDE TWO FER RACK, TOP CENTER WATERFALL TOP CHANNEL SHAMAY FOR LADGE RACK, DURABLE BLACK POWDER COAT FINISH, MEETS EM-104-E REQUIREMENT.	ORTRONICS HOMACO NG.
			CHATSWORTH PRODUCTS
٠ ا	SC-18-1	LADDER RACK, 16" W TUBULAR, STEEL, CONSTRUCTION, RUST RESISTANT ENWIEL, FINISH, RENDYE SHARP BURRS FROM LADDER IN CK. AND REPART ALL AREAS THAT HAVE BEEN FIELD MOOTHED, CUT OR EXPOSED, LUL LUSTED.	HOMACO NC. TRIDIS
- 1		1 to the second of the second	CHATSWORTH PRODUCTS 8-LINE
,	SC-FDC-1	OFTICAL FRISE DISTRIBUTION PANEL RACK MOUNT, METRIAM 24 FIRER CAPACITY, PROVIDE WITH CLAMP AND BROUNDING RT, COUPLING PANELS, DUPLEX LG CONNECTIONS, COUPLING TAND AND AND AND AND AND AND AND AND AND	HUBBELL FCR SERIES
		COUPLINGS AND JUMPERS, RECLIRES (1) 1,75" JUNIONITY OF SPACES.	I
			PANELS: FSP SERIES STSTMAX
		, t	BELDEN DRIRONICS
10	SC-FDC-2	OPTICAL FISER DISTRIBUTION PANEL, MACK MOUNT, HIGH DENSITY, MINIALM 144 FIBER DAYACTY, PROVIDE WITH CLAMP AND GROUNDINS NY, COUPLING PANELS, DUPLES, LO CHANCE TO COUPLING SAND LAMPERS, REGULARIE QL.) TO MOUNTING SANDES,	HUBBELL FOR SERIES
		CONNECTORS, COUPLINGS AND AIMPERS, REQUIRES (2: 1.75" MOUNTING SPACES.	PANELS: FSP SERIES
			SYSTEMAX
			DELDEN ONTRONICS
11	2CARRY	VOICE PATCH PANEL WALL MOUNT, 110-TYPE, 100-PAIR, PROVIDE WITH HOUNTING LEGS AND ALL ACCESSIONES, SEE SPECIFICATIONS. PROVIDE WITH FIELD TERMINATION KITS (HUBBELL, 1188-K100-FTKM).	HUSSELL 1106LK1006WL
- 1		(Institute) 1449	SYSTEMAX BELDEN
_	SC-VPR-2		CRITRONICS
12	31-21-22	RACK MOUNTED VOICE PATCH PANEL. 110-TYPE TWO (2) BRACKETS DESIGNED TO MOUNT TO EINTH STANDARD IF RACK, INCLUDED WITH TWO Q: SO-PAIR 110-TYPE WIRING SLOCKS AND WIRNOT TROUGHS, REQUIRES (2) 1.57 MOUNTING STACES.	HUBBELL 1109M14
- 1			SYSTEMAX BELDEN CRITRONICS
13	SC-MPP-Z	MODULAR PATCH PANEL 45 MODULAR RI-16 TERMINATIONS, MOUNTS DIRECTLY TO EATTA	HUBBELL
	_	MICHAR PATCH PAYEL 45 MODULAR RUHS TERMINATIONS, MICHATS DIRECTLY TO ENTIAL STANDARD 19 RELAY RUCK, PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR COLDNS AND LASEL HOLDER KITS, ULL LISTED, REQUIRES (2) 1,75' MOUNTING SPACES.	CAY 6: P6E480
- 1			SYSTIMAX BELDEN
14	SC#8-1	POWER STRP, HOREONTALLY MOURTS IN A STANDARD EIATUR 12" RACK, FIGUREAR	ORTRONICS
^		POWER STRP, HOREONTALLY MUNITIS IN A STANDARD EINTIA 15" RACK, (10) REAK RECEPTACIES, 129/A01094, PROVINCE WITH 10-0" CORD, INTERMAL CRICUIF BREAKER, U.L. USTED, RECOVERS (1) 1.15" ROUNTING SWAPE,	HURRELL
			HOMACO MC, CHATSWORTH PRODUCTS TRIPP LITE
15	SCHYM-2	HORIZONTAL WIRE MANAGEMENT, 5' X 5' RIGID FRONT FINGERS WITH FLEXIBLE RETENTION TARS 2' X 5' FLEXIBLE REAR FINGERS BOUNDARING COUNT COURT AND THE RESERVENCE.	HUSSELL HC219CEIN
- 1	٠. ا	HORIZORTAL WIRE IMPAGEMENT, 5' X 3' RIGID FRONT FINGERS WITH PLEASE RETEXTION TASS, 2' X 5' FLEXIBLE REAR FINGERS, REMOVABLE FRONT COVER HINGS 160 DEGREES UP OR DOWN, THEORIAL SHOULD SCHTROL, PASS THROUGH HOLES ALLOW FRONT TO REAR CABLING, REQUIRES (b) 1,15' MOLITING SPACES.	SYSTEMAX
- 1		•	BELOBI ORTHONICS
	SCAR	JUNCTION BOX, 4 1976' SQUARE X2 1/2' DEEP BACKBOX, DOUBLE GAMS PLASTER HAIS. PRIVITURE WHIP CONNECTION PLATE, TWO (2) 1 14" CONDUITS TO ABOVE ACCESSIBLE CEN ING.	
16		CEG-W.	
4	tracina.		
4	25-8154 -	WALLMANN SHEERAL TO MOUNTING BRACKETS. PROVIDE HAT CONFIGURED WITH INSULATORS INTEGRAL TO MOUNTING BRACKETS. PROVIDE HAT CONFIGURED WITH SEXTERN (18) SETS OF M'16" HOLES SPACED 58" ON CRITER TO ACCOMMIDISTE'X" SPACED	CHATSWORTH PRODUCTS 40(53-0)2
10	25-8154	MALLACION FORCINO MAY, 4"H X 7"C, X HO" COUPPIN, ELECTRICAL TO SOLVED IN MISULATORS STEERAL TO MOLINIOR SMACKETS. PROVIDE UNIT CONTRICIOND WITH SATERI HIS SETS OF HIS HOURS SPACED BY ON CONTRICT A CACCAMPOINT ET SPACED TWO-HOUR COMPRESSION LIGS AND THREE IN SETS OF THE HOURS STACED IT ON CONTRICT TO ACCOMMODITE TO SPACED TYCH-LIG COMPRESSION LIGS. ANSTRUMTH-WITH MIST COMPLANT, USE SETE REFER TO MISS AND STACED AND READ HOURS AND COMPLANT, USE SETE REFER TO MISS AND STACED AND READ HOURS.	EMICO HARGER
17	SE-SIGN	COMPLIANT, ULLUSTED, REFER TO 1/T900 AND 27/400 FOR ADDITIONAL INFORMATION.	EMICO HARGER
17		MULINARIA MULINION DAL "PINTI" IL NEVI DIVENI LE LELLI MOLLUT ESALVIDERI SERVIZIONI DI CONTROLLI PINTI DI CONTROLLI L'INTI DI CONTROLLI PINTI DI	ERICO NARGER CHATSWORTH PRODUCTS 10010-010
12	SC-GND-2	RACK MOUNT GRÖUND DAR, COPPER, SHI''D X, SHI''N X, SHIPAN TAPPED LUG MOUNTHIN HOLES, HI SHIF UNTAPPED LUGS, U.L. LISTED, KOPER TO 4/TSQCFOR ADQITIONAL BIFORMATION.	ERICO HARGER CHATSWORTH PRODUCTS 10010-018 ERICO HARGER
10	SC-GND-2	ACL MOUT GROUND DAY, COPPE, THE O X SY K X TY W, SIN SAT TAYING US MULLIFIED, MOUTENHAULD, M, OFF WHITHAPPED LING U. LISTED, MEPER TO ATTOC PRACOCITIONS, STOCKHOLD, M, OFF WHITHAPPED LING U. LISTED, MEPER TO ATTOC PRACOCITIONS, STOCKHOLD, M, OFF WHITHAPPED LING U. A X F X Y A Y COUNTY FIRST CONTINUED AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH OF THE MO	ERICO MARGER CHATSWORTH PRODUCTS 10510-018 ERICO MARGER
10	SC-GND-2	ACL MOUT GROUND DAY, COPPE, THE O X SY K X TY W, SIN SAT TAYING US MULLIFIED, MOUTENHAULD, M, OFF WHITHAPPED LING U. LISTED, MEPER TO ATTOC PRACOCITIONS, STOCKHOLD, M, OFF WHITHAPPED LING U. LISTED, MEPER TO ATTOC PRACOCITIONS, STOCKHOLD, M, OFF WHITHAPPED LING U. A X F X Y A Y COUNTY FIRST CONTINUED AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH OF THE MO	ERICO MATSWORTH PRODUCTS 16919-019 ERICO MATSWORTH PRODUCTS 16919-019 ERICO MATSGER COOPER B-LINE FLECTRAIT FF4/16/10
10	SC-GND-2	ACL MOUT GROUND DAY, COPPE, THE O X SY K X TY W, SIN SAT TAYING US MULLIFIED, MOUTENHAULD, M, OFF WHITHAPPED LING U. LISTED, MEPER TO ATTOC PRACOCITIONS, STOCKHOLD, M, OFF WHITHAPPED LING U. LISTED, MEPER TO ATTOC PRACOCITIONS, STOCKHOLD, M, OFF WHITHAPPED LING U. A X F X Y A Y COUNTY FIRST CONTINUED AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH, TO STOCKHOLD AT THE ASSETTION OF THE MOUTH OF THE MO	ERICO MARGER CHATSWORTH PRODUCTS 10510-018 ERICO MARGER
19	50-5ND-2 50-7TE-1 50-7T-1	MCALISACH GRÜNEN JAB. COPPER, NEF D. AF K. A SPF. K. BAPAT THYPED LIGH MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE OFFICE AND ACTION MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE ATTENDANCE OF MCANTER HOLES, HI WAS HEAVING JULE LUTTER HOLES OF A SPF. A S	BEIGG ONUTSWORTH PRODUCTS 10710-918 ENDO NARGER COOPER NARE FECTRAL FECTRAL FECTRAL IONIO-3-157EMS CAS.CFE.
19	SC-GND-2	MCALISACH GRÜNEN JAB. COPPER, NEF D. AF K. A SPF. K. BAPAT THYPED LIGH MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE OFFICE AND ACTION MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE ATTENDANCE OF MCANTER HOLES, HI WAS HEAVING JULE LUTTER HOLES OF A SPF. A S	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES
4	50-5ND-2 50-7TE-1 50-7T-1	MCALISACH GRÜNEN JAB. COPPER, NEF D. AF K. A SPF. K. BAPAT THYPED LIGH MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE OFFICE AND ACTION MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE ATTENDANCE OF MCANTER HOLES, HI WAS HEAVING JULE LUTTER HOLES OF A SPF. A S	BEIGG ONUTSWORTH PRODUCTS 10710-918 ENDO NARGER COOPER NARE FECTRAL FECTRAL FECTRAL IONIO-3-157EMS CAS.CFE.
19	50-5ND-2 50-7TE-1 50-7T-1	MCAL MOUTH GRAND PAY, COPPER THE PAY ARE NOT WE REPAIR THE PROTEIN THE PAY THAT DEAD MONTHMEN MALE HE HE WAS THAT PAY DUTIES. WHERE HE THAT PAY DO NOT HE HE WAS THAT THAT THAT THAT THAT THE TOWN AND AND THAT THE THAT THAT THAT THE TOWN AND THAT THAT THAT THE TOWN AND THAT THAT THAT THE TOWN AND THAT THAT THAT THE TOWN AND THAT THAT THAT THAT THE TOWN AND THAT THAT THAT THAT THAT THE TOWN AND THAT THAT THAT THAT THAT THAT THAT THA	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES
19	50-5ND-2 50-7TE-1 50-7T-1	MACK MOUTH GRAND PAIL COPPER THE PLAY AT KIN THE MENT THE PROTECTION OF MACKET AND THE PROTECTION OF T	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES
119	SCHIEL SECTE	MCALISACH GRÜNEN JAB. COPPER, NEF D. AF K. A SPF. K. BAPAT THYPED LIGH MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE OFFICE AND ACTION MCANTER HOLES, HI WAS HEAVING JULE LUTTER, REPERT THE ATTENDANCE OF MCANTER HOLES, HI WAS HEAVING JULE LUTTER HOLES OF A SPF. A S	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES
17 III	SCHIEL SECTE	BACK MORT GROWING PAL COPPER, THE PLAY THE REPORT THE TOTAL CHANGE AND THE TOTAL CONTINUES AND THE TOTAL CHANGE AN	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES
17 III	SCOTTLE SECTED S	MACK MOUTH GRAND PAIL COPPER THE PLAY AT KIN THE MENT THE PROTECTION OF MACKET AND THE PROTECTION OF T	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES
119	SCOTTLE SECTED S	BACK MORT GROWING PAL COPPER, THE PLAY THE REPORT THE TOTAL CHANGE AND THE TOTAL CONTINUES AND THE TOTAL CHANGE AN	ENDO ONTSWORTH PRODUCTS 10010018 ENDO NWOORR COOPER NAME FLUTORAT FEATANT INDICATENS CARLOFE PANDALT GRIDILINES

	TEC	CHNOLOGY EQUIPMENT SCHEDULE (CON	TINUED)
20	AC-PS-1	ACCESS CONTROL POTTER SUPPLY, CONTENTS 150/AC MPUT TO A NO EPENDAMENT CONTROLLED 17/07 OF A WIND FAIL SAFE MICROR FAIL SEQUINE OUTFLYS, NOLLIDES BUILTAN BUT ENT BARAND.	ALTRONIA ALBOOULACE NO SUBSTITUTIONS
27	XECANE.	CCTV CAMERA, CELING MOUNT, PROVIDE A 4" SOURCE BUCKSOK AND A 1" CONDUIT TO ABOVE NEAREST ACCESSBLE CRILING, REPER TO CAMERA (CCTV) TYPE SCHEDULE ON DRAYPING TOO FOR ADOTTONAL INFORMATION.	OWNER FUNNISHED CONTRACTOR INSTALLS
21	RECORDS	CCTY CAMERA, WALL MOUNT, PROVIDE A 4" SQUARE BACKBOXANDA TYCONDUST TO ABOVE NEAREST ACCESSIBLE CEILING, REFER TO CAMERA (CCTV) TYPE SCHEDULE ON DRAYING TWO FOR ADDITIONAL BY DIMATION.	OWNER FUNDEMED CONTRACTOR MISTALLS
29	YS-CEM-1	CCTY CAMBRA, PTZ, EXTENSION, REFER TO CAMBRA (CCTY) TYPE SCHEDULE ON GRAWING THEE FOR ADDITIONAL INFORMATION.	OWNER FURNISHED CONTRACTOR INSTALLS
7 20	¥3451	CCTV CAMERA FORES SUPPLY, RODOR, 120/AC VENT, 262/AC CUTFAT, AC FORMS NICKATOR WITH MASTER DECORPS SPIRICA, INFORMAL CUTFAT STIM CREATE REALING PROTECTION, POWER SUPPLY SEED AS RESOURCED FOR ALL CAMERAS, PTOTECTION, POWER SUPPLY SEED AS RESOURCED FOR ALL CAMERAS, PTO SEPTIMENT, MAINTERSEMPHEN MANUAL MASCELLA MEDICA ACCORDING SEE AND RESOURCE SERVICE SEED AS RESOURCED FOR A SECRETARY SECRETARY SERVICES AND RESOURCED FOR A SECRETARY SERVICES.	PELCO VICON PANASONIC PHLIPS AMERICAN DYNAMICS
31	AV-CAIM1	SPECH CONTRACTOR (\$2.00 MFCH, CONTRACTOR CONTRACTOR) AUGONIDED VINED CONFERENCE YORK CAMERA, WALL OR CELING MOUNT, HO VIDEO, PRINTING COMPARTITIONALITY, PROVIDE WITH WALL MOUNTING SHELF ACCESSORY,	POLYCON FAGLE-EYE II
32	AV-CAS-1	AN EQUIPMENT CARRET, PLORI MICHAY WITH FRONT DOOR, AN YEN'S 22 TETS, ROTATING MICH. TO BLO DAMACTY, AN IN VENTES DEEP PARKET, IT IS USED. HOWEVER WITH HYTHEAM FED PART FOR PARKET, AND INFA SET PART FOR MICHAY BOTH PART FOR MICHAY FOR MICHAY BOTH PART FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR MICHAY FOR FOR FOR MICHAY FOR MICHAY FOR FOR FOR MICHAY FOR MICHAY FOR MICHAY FOR FOR FOR FOR FOR F	NO SUBSTITUTIONS MIDDLE ATLANTIC W8-44-32 NO SUBSTITUTIONS
33	ANTPHE	ACIDITY DED SYSTEM TO ACCOUNT OF CONTROL PARKE SPECIES, TH ACT OF MATER ACCOUNTS OF CONCOUNTS OF CONTROL PARKETS OF CONTROL PAR	CRESTRON TPMO-84-GA NO SUBSTITUTIONS
×	AN-TP2-D	AUGICAVERIO SYSTEM TONICHS CREEN CONTROL FAMEL GEOGREP, 12 ACTIVE DISPLAY, 400800 RESOLUTION, PULL MOTION VIDEO, INTERACTIVE AMERICATION, CHREEDED YRBODING OPERATING SYSTEM, MACHINE AMERICATION, COMPANS COST, VIETNIC ANGLE —44 HORIZONTAL, 144547 WITCHALL, 1415478 WITCHALL STREAMS CONNECTION.	CRESTRON Y12 NO SUSSTITUTIONS
35	AN-TPS-W	AUDIOVIDED SYSTEM TOUCHSCREEN CONTROL PAND, YEAR 4.7 ACTIVE DISPLAY, BOCKMOR RESOLUTION PROGRAMMELE, SNGLE GANG BOX, ENGRY 1910 BUTTON CAPS, LED BUCKLIT, BUSKLALL AT 407, ETHERNET CONNECTION.	CRESTRON TPMC-45MD NO SUBSTITUTIONS
36	AV-MORES	AC LEDICO DISPLAY MONITOR.	ONNER PROVIDED CONTRACTOR INSTALLS
327	8Y-MSH-2	60" PLASIAN DISPLAY MONGTON.	DVINER PROVIDED CONTRACTOR INSTALLED
34	WANGER	AT LED DISPLAY MONETOR.	CONTRACTOR BISTALLES
39	BE-MON-4	36 LED DISPLAY MONITOR.	OWNER PROVIDED CONTRACTOR SYSTALLES
40	AV-ANIL1	TOUCH SCREEN ANDITATION MONITOR, CAPPOTITIE TO JOH TECHNOLOGY, 19.5°, 19.2 ASPECT ANTIC SECULIAR PLAE RESOLUTION, HOW AND DEPLAYDOIT REVITA, USE CONNECTION, PHONDE WITH SAME MANUFACTURERS POWER SUPPLY AND DESIGNOP MOUNTING NT ACCESSORES.	CRESTRON TSD-2020 NO SUBSTITUTIONS
41	AY-ANG-1	High Definition Digital Yidid Ainstrator, Chestnet, RS-ZIZ Control, PROVIDENTH 440M, INPUT CARDS AND 4410M DUTPUT CARDS.	CRESTRON DVPHD-QS NO SUBSTITUTIONS
42	8/-WPI-W	AUDIOVIDED WALL PLATE, SHIGLE GAVIG, INFUT: OM 65+, CUTIVIT: HDM, RS-222, IR, YMITE DECORA STYLE PACEPLATE.	CRESTRON ON-RNC-100-C NO SUBSTITUTIONS
49	AV-WP2-N	ASSESSMENT WHAT ILL PROMISE TO SEE PROGRAM, COMES CHAPT PASTER SHEEL WHAT THAT SHEET AND THAT SHEET SHEET AND THAT SHEET	HUBBELL ISTATION HOMENSERT ISHHOOW JOHN PROENT SPHOOW BANK NOENT SPORT FACEPLATE OR PREAPPROVED EDAN OR PREAPPROVED EDAN
4	AN-VIEW	AUSIOYMEEO POKS-THRIOUGH, FIRE FATES, HOM TRANSMITTEN MODALE WITH IZ: CAT 8 CUTPUT, 1,5mm PC AUGIO WHUT AND REQUIRED BLANK MODULES, WHITE FACEPLATE.	HUBBELL POWETHINGUIGH STSTEM ONE SIPTINI SUBJUNTE SUSJUNTES
			STATION HOMINISERT ISHNOO J.Son PUSERT STASSIN BLANK INSERT SFASSIN FACEPLATE MYZUN OR INSEAPPHONED SOLUTION OR INSEAPPHO
45	EN-MESON.	RESPONDENCE WAS A THE THE PROMPET IN THE SEASON, THO THESE SEASON THOUSAND SEASON THE SEASON THOUSAND SEASON T	NUBBELL STATION CATE MCA. SPORT HOM NUBBEL ISTATION 2 Mem NUBBEL ISTATION 2 Mem NUBBEL ISTATION PROSPET SPINSOR BUNK NUBBEL FRESPATE COMPANY FRESPATE COMPANY FRESPATE COMPANY
41	AFNPE	AUDOWED PORE-THIOUSE FIRE INCED, IF COME, RESTALL BOTH, MODE TAMADENTER PORE-THIOUSE AND AUGUST AND USE ROUTS AND DIM ISS-OUTFUT TITTING TO SECTION TO SECTION TO SECTION TO SECTION TO SECTION TO SECTION TO SECTION TO SEC	POKETHROUSE WREMOLD PLATE: CRESTRON DM-TX-200-C-2G
47	AULINDIAN	AUGUNICE O WALL PLATE POPULATE WITH ONE PROME PERMIT CONCENTION IN A DECORATION STATE STANDARD PROMICE HELD IN AN APPEAR OFFER CONFIDENTIAN. REVIEW TO SHAVE DESIGNED PROMISSION. REVIEW TO A PROMISSION STANDARD PROMISSION STANDARD PROMISSION OF 111 STANDARD PROMISSION STANDARD PROMIS	NO SUBSTITUTIONS HUBBELL NOSM STSTWAN BELL STSTWAN BELL BOTTONICS
41	AV-WPSE	ADDITIONAL PROPERTIES OF THE ATTER IT COME, MAY THE STATE AS, CONTROL OF THE STATE AS, CONTROL ON THE MAY THE ATTER AS A CONTROL ON THE ATTER AS A CONTROL OF THE ATTER AS A C	PORE THROUGH NIREMOLD PLATE HUBBELL ISTATION CATE SPCOM BLUNK INSERT SPCOM PACEPLATE MACEPLATE
49	AV-AVP7-M	AUDINDRO WALL PLATE, 4" SOUARE X2 VI" DEEP BACKSON, SINCLE GHAS PLASTER WING, ONE (1) "CONDUIT TO ABOVE ACCESSIBLE CELLING, ONE (1) JUANALE CONNECTOR, STANLESS SIBLE, ANDERVICE.	DR PREAPPROVED EDUA ROL DSJURTM
50	AV-DT244	DEFINATION PROMOTED, INSTANTOR TAILS BY SECONDORS WIND SHOLD	BTX FINELCRAFTERS CRESTRON DN-TX-401-C
51	AV-DRZ-1	SAFFORT SUB EXTENSIVATION IN OUR SEZECUTION, SERVICE OFFICIAL INFO, PROVIDE COMPLETE WITH SAFFORT SUB-CONTROL SERVICE OFFICIAL INFO, PROVIDE COMPLETE WITH SAFF IMMANDATURERS PROMISED AND SERVICE SERVICE. DIGITAL MEDIA RECEIVED. DAMAS - INPUT. HOME DISTANCE UNISOTHER UNISOTHER DISTANCE OFFICIAL CONTROL CONTROL SAFFORT SUB-CONTROL SAFFORT SUB-CONTROL SAFFORT CONTROL CONTROL CONTROL SAFFORT SUB-CONTROL SAFFORT SAFFORT SUB-CONTROL SAFFORT SUB-CONTROL SAFFORT SAFFOR	NO SUBSTITUTIONS CRESTRON DIVENDO CO
	AV.DIT 4	- 1	NO SUBSTITUTIONS
52	AV-RVE1	ASSOCIATION NATION STATEMENT AND RESPONSE THE PAPER OF SECURITY AND ASSOCIATION OF THE PAPER OF	CRESTRON DIMMO SECUL INPUT CARDS: DMCJCAT DMCJ
53	AY-CIL-1	AUDIONIDEO CONTROL STSTEM. 32 BT PROCESSOR, ETHERNET CAPABLITIES, QUAL BUS ARCHITECTURE, CRESNET PORT, SIX COM PORTO, EIGHT PROGRAF, FORT, GONT FO PORTS, ERGH RELAT PORTS, CONTROL CARD EXPANSION SLOTS, FROM LCD DISPLAY NTERNAL POWER SUPPLY.	CRESTRON PRO2 NO SUBSTITUTIONS

54	AV-MY-1	AUDIOWIDEO NETWORK SWITCH, 19/10/10/08ASS-T ETHERNET, 24 PORT, RACK MOUNT, 1 RU.	cisco
55	KATAFI	USB HUS. TWO USB INPUTS, FOUR USB OUTPUTS, ACCEPTS CONTROL VIA RS-212.	EXTRON SYM USB PLUS
56	AV##3=1	AUDONIDEO WIRELESS MICROPHONE SYSTEM, 1400 SELECTABLE FREOUDNICES, RADIO FREQUENCY RANGE OF 4'N TO 855MB, DAIL ANTENNA DIVERSITY, AND FREQUENCY ESSONATES RESIDENT SHAPE TO BE AND THE WARREST AND THE TIME IT OF THE TIME IT	NO SUBSTITUTIONS SHURE UUSHP
		AUCOVIDED WIRELESS MECHANICS, SYSTEM LANGE ESTABLE PROJECTION, 6 NO. PRODUISTO WARDOO OF RET DE MESSAGE, DALA NETIMES WE PROSIDENT AUGO PROSPECT RESPONSE OF 250-10 1990-1, THOMOST, MAINTEN AUGO OFFICE THE AUGO PROSPECT RESPONSE OF 250-10 1990-1, THOMOST, MAINTEN AUGO DOUTHET WAS AUGO PROSPECT RESPONSE OF 250-10 1990-1, THOMOST, MAINTEN AUGO DOUTHET WAS AUGO PROSPECT RESPONSE OF 250-10 1990-1, THOMOST AUGO PROSPECT RESPONSE OF	SEMNHOSEK LECTROSONICS
র	AN-PS-1	AUDION/DED POWER STRP, RACKMOUNT, 1 RU, TYLO PULL OUT 120Y LAMPS, 120YAC 65Hz, 6 CORD 15 AMP RATING, ITE JOUESS, 8 REAR MOUNTED OUTLETS, 1 FRONT OUTLET, SURGE PROTECTION, NOISE FILTRATION.	PURINAN HMLX DR PRE-APPROYED EQUAL
Si	AV-S0-1	ALDIONIDED SPEAKER, CELIND MOUNT, BETWOOPER, 11 TWEETER, 127 COVER AND LE 5145 SENSINITY, THERE OF MIST'S PRECIDENCY TOWNTONE, POWER CAPACITY 150N CONTRINCUS PRICERAN, 75 WATTS PINK NOISE, B OHA PROVIDE WITH YILE BRIDGE GRALE AND REQUIRED BACK COV.	JBL CONTROL 47C/T OR PRE-APPROVED EQUAL
29	AY-AMP-1	ALDIONIDED AMPLIFIER, TWO DIAMNEL, EACH CHANNEL, 120YORS DHAIS, HPUTS BALANDED OR INNEALANCED LINEL SINE, SIX RATIO-10MB, A WEIGHTED, CROSSTALA-PIOS & 15N-2 246 GAIL, NPUT 20:3 PM 1,5mm 1286894L, BLOCKS, OUTPUT (2) 4 PM 1,62 mm 16A 15RM NVL BLOCKS, MCK MOURT, 1 RU.	CRESTRON AMP-2210T ND SUBSTITUTIONS
50	AV-VBP	VENTED BLANK PANEL 2 RU,	1.
31	AV-MIZ-1	BIGHT CHANNEL AUTOMATIC DIGITAL MADER WITH DAVITE DIGITAL AUDIO, FREOUBNICY RESPONSE 200C TO 2004Z, ADIOA COMPONIES: 24-RIT, 48-NC, 11306 D'INVARIO RANGE, 22-RIT, INTERNAL PROCESTRIA, DIAL PORT DISABIT ETMEANET,	SHIRE SOMESHAN NO SUBSTITUTIONS
82	AVARCOA	AUDITION WHELESO MEROPHONE ANTENNA DISTRIBUTION ANY LIFER, ONE PARK OF UHF ANTENNA RIPUTS. FOUR PARK OF UHF INTENNA OUTPUTS AND FOUR LOTHYOLTAGE POWER OUTPUTS. PROVIDE WITH NECESSART PATCH CABLES FOR ANTENNA AND POWER CONNECTION.	SAURE UNSHASYR SENNERSER
			LECTROSONICS
20	ANANTAY	ALDIONIDEO WIRELESS MCROPHONE SYSTEM ANTONIX, 12 YAVE ANTONIX ONNO ORECTSONAL PASSIVE SO CHAIM PREDANCE, PROVIDE COMPLETE VITITI YALL MOURTING ACCESSORIES.	SHURE UASES SENHEISER LECTROSONICS
84	NAMES	AUDIOVIDED VIDEDCONTERDICE INDROPHONE ARRAY, CIBLING ISOUNT, OWN-HARRESTOWN, FREOUDROY RESPONSE UPTO 22/04, PROVIDE WITH CRUNG ISOUNT BRICQ DATE.	POLYCOM 200-23409-001
8	AV-98X-1	FLAT FAMEL BACK BOX, Y.KT. X7.52" X E37", THIS SINGLE GANG OPDINING, THIS ISTATION SINGLE GANG OPDINING, THIS ISTATION OF MEMORY OF MARK.	NO SUBSTITUTIONS HUSBERT NSAYWOM COWER
			NSAVIC OR PRE-APPROVED EQUAL
*	RS-RAT-1	RADIO ANTENNA, 806-910 INCE BAND, VENTICAL POLARIZATION WITH 45 DEGREE VENTICAL BEAMMENTH, 134 MIPH WIND SURVIVAL, 150M INACEMIA POWER INPUT, PROVIDE LIGHTNING PROTECTION PER IMPAURACTURERS REQUIREMENTS.	CELLULAR SPECIALTIES CSHAY/805-95011 NO SUBSTITUTIONS
e7	B1-B4T-2	VI-F RACIO ANTENNA, 150-155 MIC BAND, HOREONIAL OR VERTICAL POLAREATION, 125 MIN WIND SURVINAL, 320M MAZZADIA POWER INPUT, PROVIDE LIGHTINING MIDTECTION PER MANUFACTURER'S REQUIREMENTS.	COMPELCO YZZISA-B NO SUBSYTTUTIONS
*	RS-R#T-3	RADIO AUTERIA, ISSAIRI MAZ BAND, 360 DECREE HORIZONTAL BANDNICTH, 22 DECREE VERTICAL BANDWICTH, 100 MPH WIND SURNIVAL, 1939/ NAVELAGA POWER NINUT, PROVIDE LIGHTNING PROTECTION PER MANUFACTURER'S REQUIREMENTS.	PCTEL 11801165 MF91-4585 NO SUBSTITUTIONS
89	<u> 15401-4</u>	VHF RADIO ANTENIX, 150-156 MED BMID, VERTICAL POLARIZATION FYTH 40 DEGREE VERTICAL BEAMMOTH, 126 MM WIND DURWIN, 250M MAJIKUM POWER REUT, PROVIDE LEGITING PROTECTION PER MANUFACTURERS RECURRIMENTS.	COMMELCO BS150023-8 NO SUBSTITUTIONS
OT	END	SO PIMALED IP INTERCOM STATION, AUTOMATIC VOLUME ADJUSTMENT AND BACKGROUND MOSS CONCELLATION, STATISESS STEES, PROOFF PLATE WITH ONE BUTTON, SPLÉDIEM NOPEN DUFLES THAN, THONGROUND THAN ES BOOK-TOOL, CORE 1867, PIE. [1988] AND IN-18 COMPUNIOE, PROVIDE WITH TA-1 TURRING COMPACT SURPLE BOUNT BACK, DOX (STEINDFOR) SOCIALISTICS.	STENTOFON TURSNETOS2 OR PRE-APPROVED EXAM
71	AC-SEC-2	ACCESS CONTROL ELEVATOR CONTROL PANEL REFER TO SPECIFICATION SECTION 28 13-96 FOR COMPLETE INFORMATION AND MODEL NUMBER.	· .
12	<u>RS-P6-1</u>	RADIO SYSTEM POLYPHASER, REPERTIO SPECIFICATION SECTION 27/32/43 FOR COMPLETE INFORMATION AND MODEL NUMBER.	
73	RSPR-1	RADIO STSTEM PATICH PANEL, REDURES (2) LTF PACK MOUNTING SPACES, REPER TO SPECIFICATION SECTION 27 32 45 FOR COMPLETE BIFURNACTION AND MODEL NUMBER.	
74	BS-BAT-1	RADIO ANTENNA, SOFERS MAZ, FIBER GLASS, CUMI-DIRECTIONAL 150 YEATT UNITY GAIN, REFER TO SPECIFICATION SECTION 27 32 43 FOR MORE INFORMATION.	LAIRD TECHNOLOGIES SADIOS
75	RS-RAT-2	INCID ANTENNA, 135-185 SMC WHF GROUND PLANE ORNH-DIRECTIONAL ANTENNAL REFER TO SPECIFICATION SECTION 27-32 45 FOR MORE INFORMATION.	PANDRAMA ANTENNAS BS-IN1766
74	RS-RAY-3	RYGIO ANTENIA, BOHAMENE ONNI DRECTIONAL, 6 dE GARL VERTICAL POLARZATION, REFER TO SPECIFICATION SECTION 27 32 43 FOR MORE INFORMATION,	AMPHENOLANTENNA SOLUTIONS SCEPTION-EXTHO
77	REPRETA	RADIO ANTENNA, 456-476 INCLUHF DIRECTIONAL, BOLD ANODEED, 7,1 49 GAN, 320 WATT, REFER TO SPECIFICATION SECTION 27 32 43 FOR MORE INFORMATION.	LAURD TECHNOLOGIES Yesto
78	35-ER-1	WALL SWANG FRAME CABRIET, 36% A 21°W A 1870, 18° CENTER MOUNTING, 3° DEEP RACK UPRIGHTS, WAYDERS, SACENG, OPEN EQUIPMENT ACCESS, TRUE (CAD CAPACITY, DURASLE SLACK POWDER COATING. PROVIDES (21) L'15° MOUNTING SPACES.	HUBBELL HPYMYHR35 GREAT LAKES NC.
- 1	1		DIATSWORTH PRODUCTS



eppstein uhen: architects

allivesive 27 East Chresgs Street

id 44 FT 1555 to 44 FT 2757 E8

E madisso Matters Wiscopis 53775 to 160 44 FT 2757 to 160 44 FT 2757 to 160 44 FT 275 to 160 44 FT

IN SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITION OF SECURITIES.

Fire Station Administration Office Building and Fire Station No. 1 (Hovde Properties Tenant Improvements) Contract No. 6891

316 West Dayton St. Madison, WI 53703

ISSUANCE AND REVISIONS
BID DOCUMENTS

C REVISIONS

DATE DESCRIPTION
1 015962015 (ADDBIDUAN)

KEY PLAN



SHEET INFORMATION

PROJECT MANAGER PROJECT NUMBER 12149 DATE

7

SCHEDULES -TECHNOLOGY

T601



February 3, 2015

Department of Public Works

Engineering Division

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

City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4751
Fax: (608) 264-9275
engineering@cityofmadison.com
www.cityofmadison.com/engineering

Assistant City Engineer

Michael R. Dailey, P.E.

Principal Engineer 2 Gregory T. Fries, P.E.

Principal Engineer 1 Christina M. Bachmann, P.E. Eric L. Dundee, P.E. John S. Fahrney, P.E.

Christopher J. Petykowski, P.E.

Facilities & Sustainability
Jeanne E. Hoffman, Manager

Operations Manager Kathleen M. Cryan

Mapping Section Manager Eric T. Pederson, P.S.

> Financial Manager Steven B. Danner-Rivers

NOTICE OF ADDENDUM ADDENDUM NO. 2

CONTRACT NO. 6891, PROJECT NO. 53W1434 FIRE STATION ADMIN OFFICE BUILDING and FIRE STATION 1

Revise and amend the contract document(s) for the above project as stated below, otherwise the original document and Addendum 1 shall remain in effect.

A. Specification 07 53 23, Section 2.1: modify the following subsection as follows:

i. Page 07 53 23-3, subparagraph A: EPDM Membrane Roofing: ASTM D4637, Type
 1; WHITE, non-reinforced, 90-mil 60-mil EPDM...

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at https://www.bidexpress.com/

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

For questions regarding this bid, contact:

Randy Wiesner City of Madison Engineering

Phone: 608-267-8679 Fax: 608-264-9275

Email: rwiesner@cityofmadison.com

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

					1
					1
					1
					1
					1
					1

SECTION E: BIDDERS ACKNOWLEDGEMENT

CONTRACT TITLE FIRE STATION ADMIN OFFICE BLDG & FIRE STATION 1

CONTRACT NO. 6891

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 2014 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. 1 through 2 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).

	CITY. FAILURE TO DO SO MAY RESULT IN	REJECTION	OF THE B	ID).		
5.	I hereby certify that all statements herein are				ff & Son	Inc.
	(name of corporation submitting bid) a corporation	ation organiz	ed and exis	ting under	the laws	of the
	State of Wisconsin a partnership consist	sting of			\	;
	an individual trading as			; of	the City	of
	State of		-	·	_; that I	
	examined and carefully prepared this Propo					
	checked the same in detail before submitting					
	such statements and submit this Proposal in (it	s, their) behal	f; and that t	ne said sta	itements ar	e true
	and correct.					
, ,	1. 7.00					
7	Rice Sel al	·				
SIGNATU	URE /					
n n		-		IIIIIII	11///	
Dave B	Beck-Engel, President	 .		"1" A 2(CHAMIL	
,			, i	4		, .
Sworn	and subscribed to before methis Sixth day of Fe	hruary 2015	33	7	ARV	
DWOIII	and sposorrood to octors iniginis onath day of 1x	<u>,01441 y</u> , 20 <u>15</u> .		170		ता ता ता
	mus Am		=	PHE	ILIC /	=
	y Public or other officer authorized to administer	oaths)				5
My Con	mnassion Expires 8-/7-/8		7	WE OF	WISC W	
Bidders	s shall not add any conditions or qualifying state	ments to this	Proposal.	THUN	AA 10.111	

SECTION F: DISCLOSURE OF OWNERSHIP & BEST VALUE CONTRACTING

FIRE STATION ADMIN OFFICE BLDG & FIRE STATION 1 CONTRACT NO. 6891

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

Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d) and 103.49(7)(d), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes.

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

Other Con	struction Busin	iess			
Not Applicable ⊠		·			
Name of Business NONE					
Street Address or P O Box		City		State	Zip Code
Name of Business					
Street Address or P O Box		City		State	Zip Code
Name of Business					
Street Address or P O Box		City		State	Zip Code
I hereby state under penalty of perjury that the information my knowledge and belief.	on, contained in	this document, is true	and ac	curate a	cording to
Print the Name of Authorized Officer Dave Beck-Engel, President					
Signature of Authorized Officer	Date Signed 2/6/15				
Name of Corporation, Partnership of Sole Proprietorship J.H. Findorff & Son Inc.					
Street Address or P O Box 300 S. Bedford St.		City Madison		State WI	Zip Code 53703

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

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

FIRE STATION ADMIN OFFICE BUILDING AND FIRE STATION 1 CONTRACT NO. 6891

Best Value Contracting

1.	The	Contractor shall indicate the non-apprenticeable trades used on this contract.
	M******	
2.	activ	lison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the reapprentice requirement. Apprenticeable trades are those trades considered apprenticeable he 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.	on 1 33.0 appr ager	Contractor shall indicate on the following section which apprenticeable trades are to be used his contract. Compliance with active apprenticeship, to the extent required by M.G.O. 7(7), shall be satisfied by documentation from an applicable trade training body; an enticeship contract with the Wisconsin Department of Workforce Development or a similar ncy in another state; or the U.S Department of Labor. This documentation is required prior to 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
X	CARPENTER
	CEMENT MASON / CONCRETE FINISHER
	CEMENT MASON (HEAVY HIGHWAY)
X	CONSTRUCTION CRAFT LABORER
	DATA COMMUNICATION INSTALLER
X	ELECTRICIAN
	ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
	GLAZIER
	HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
	INSULATION WORKER (HEAT & FROST)
X	IRON WORKER
	IRON WORKER (ASSEMBLER, METAL BLDGS)
	PAINTER & DECORATOR
	PLASTERER
	PLUMBER
	RESIDENTIAL ELECTRICIAN
	ROOFER & WATER PROOFER
	SHEET METAL WORKER
	SPRINKLER FITTER
	STEAMFITTER
	STEAMFITTER (REFRIGERATION)
	STEAMFITTER (SERVICE)
	TAPER & FINISHER
	TELECOMMUNICATIONS (VOICE, DATA & VIDEO) INSTALLER-TECHNICIAN
	TILE SETTER

FIRE STATION ADMIN OFFICE BUILDING AND FIRE STATION 1 CONTRACT NO. 6891

Small Business Enterprise Compliance Report

This information may be submitted electronically through Bid Express or submitted with bid in sealed envelope.

Cover Sheet

Prime Bidder Information	
Company: J.H. Findorff & Son Inc	
Address: 300 S. Bedford St., Madis	on, WI 53703
Telephone Number: (608) 257-5321	Fax Number: (608) 257-5306
Contact Person/Title: Philip Voo, Chief	Estimator
Prime Bidder Certification	
I, Dave Beck-Engel	
Name	Title
J.H. Findorff & Son Inc. Company	certify that the information
contained in this SBE Compliance Report is true and	correct to the best of my knowledge and belief.
Linda Sei	Dan Berl Eil
Witness' Signature	Bidder's Signature
2/6/2015 Date	

FIRE STATION ADMIN OFFICE BUILDING AND FIRE STATION 1 CONTRACT NO. 6891

Small Business Enterprise Compliance Report

Summary Sheet

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
URban_	Tanina	/,5 %
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
Subtotal SBE who are NOT suppliers:		15 - pa-%
SBE Subcontractors Who Are Suppliers		•
Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
Name(s) of SDEs officed	Type of Work	% of Total Bid Amount
		// 6
		%
	<u> </u>	
		——————————————————————————————————————
Subtatal Continuations who are assemble	15 600 % x 0.6 = C	
Subtotal Contractors who are suppliers:	ORE	% (discounted to 60%)
Total Percentage of SBE Utilization:	5 %.	

J. H. Findorff & Son Inc.

Contract No.: 6891

Title: Fire Station Admin Office Building & Fire Station 1

Section B: Proposal Page

Revision Item ID 50825

Item Code 90001 Description Base Bid

3

Quantity Units 1 Lump Sum Unit Price 8, 383,000

				1	
				1 1 1 1 1 1	
				1	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
				1 1 1	
				1 1 1	
				1	1
					1
					,



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. Fahrney, 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 ett, P.G

Nanager s, R.L.S.

Officer r-Rivers

		Joseph L. DeMor
T. H. Die Leeff C. C. T.		GIS I David A. Davi
J. H. Findorff & Son, Inc.		Financia
(a corporation of the State of Wisconsin		Steven B. Danne
(individual), (partnership), (hereinafter referred to as the "Principal") and	•	
Travelers Casualty and Surety Company of Amer	ica	?
a corporation of the State of CT (hereinafter referred to as the "Su	rety") and li	censed to do
business in the State of Wisconsin, are held and firmly bound unto the C	• '	
(hereinafter referred to as the "City"), in the sum equal to the individual pro-	•	-
the total bid or bids of the Principal herein accepted by the City, for the payr	•	•
		•
and the Surety hereby jointly and severally bind ourselves, our heirs,	executors, ac	immistrators,
successors and assigns.		
The state of the thirty is decided by the testing the table of the testing to the testing of the		
The condition of this obligation is that the Principal has submitted to the Ci	•	s for projects
from the time period of February 1, 2014 through Januar	y 31, 2016	
If the Principal is awarded the contract(s) by the City and, within the time a	nd manner rec	quired by law
after the prescribed forms are presented for its signature, the Principal enters	into (a) writte	en contract(s)
in accordance with the bid(s), and files with the City its bond(s) guaranteein	g faithful perf	formance and
payment for all labor and materials, as required by law, or if the City rej		
described, then this obligation shall be null and void; otherwise, it shall rem		
described, then this obligation shall be fluit and void, otherwise, it shall tem	am m tun tore	e and enect.

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.

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

This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 AGENT John W. Walsh	PRINCIPAL	
By: SIGNATURE AND TITLE TIME J. Stock limen, Secretary TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA COMPANY NAME By: SIGNATURE AND TITLE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 DATE December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	J. H. FINDORFF & SON, INC.	December 30, 2013
SURETY TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA COMPANY NAME By: SIGNATURE AND HITLE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 DATE December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	COMPANY NAME AFFIX SEAL	DATE
SURETY TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA COMPANY NAME By: SIGNATURE AND TITLE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014 and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	CICHATURE AND THE	
SURETY TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA COMPANY NAME By: SIGNATURE AND TITLE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014 and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	Tim J. Stradelman Secretary	
SURETY COMPANY OF AMERICA COMPANY NAME AFFIX SEAL December 30, 2013 DATE By: SIGNAFORE AND HILE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 AGENI John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704		
By: SIGNAFORE AND HITLE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 DATE December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	TRAVELERS CASUALTY AND	
By: SIGNAFURE AND TITLE John W. Walsh, Attorney-in-Fact This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	SURETY COMPANY OF AMERICA	December 30, 2013
This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under License No. 168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013 DATE December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	COMPANY NAME AFFIX SEAL	DATE
168955 for the year 2014, and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked. December 30, 2013	SIGNATURE AND TITLE John W. Walsh,	
December 30, 2013 December 30, 2013 AGENT John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	-	
December 30, 2013 AGEN John W. Walsh c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704		
c/o Cobb Strecker Dunphy & Zimmermann, Inc 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704		power of attorney has not been revoked.
c/o Cobb Strecker Dunphy & Zimmermann, Inc. 4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704		AGENT Tohn H. Halah
4726 East Towne Blvd, Ste 230 ADDRESS Madison, WI 53704	DATE	John W. Walsh
ADDRESS Madison, WI 53704		c/o Cobb Strecker Dunphy & Zimmermann, Inc
Madison, WI 53704		4726 East Towne Blvd, Ste 230
		ADDRESS
		Madison, WI 53704

Note to Surety and Principal: Any bid submitted which this bond guarantees may be rejected if the Power of Attorney form showing that the Agent of Surety is currently authorized to execute bonds on behalf of Surety is not attached to this bond.

608-242-2550 TELEPHONE NUMBER

CERTIFICATE OF BIENNIAL BID BOND

TIME PERIOD - VALID (FROM/TO)

February 1, 2014 - January 31, 2016

NAME OF SURETY

Travelers Casualty and Surety Company of America

NAME OF CONTRACTOR

J. H. Findorff & Son, Inc.

CERTIFICATE HOLDER

City of Madison, Wisconsin

This is to certify that a biennial bid bond issued by the above-named Surety is currently on file with the City of Madison.

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

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

SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE

(3<u>(30</u>



POWER OF ATTORNEY

Farmington Casualty Company Fidelity and Guaranty Insurance Company Fidelity and Guaranty Insurance Underwriters, Inc. St. Paul Fire and Marine Insurance Company St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company Travelers Casualty and Surety Company Travelers Casualty and Surety Company of America **United States Fidelity and Guaranty Company**

Attorney-In Fact No.

223953

Certificate No. 005004941

KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Maryland, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

John W. Walsh, Betsy K. Wright, and Tina L. Domask

of the City of	Madison		. State of	Wisconsin		their true and la	wful Attorney(s)-in-Fact,
each in their sepa other writings ob	arate capacity if n oligatory in the n		d above, to sign, exect of the Companies in	ite, seal and acknowl their business of gr	edge any and all bo paranteeing the fide	onds, recognizances, con- elity of persons, guarante	ditional undertakings and eeing the performance of
							20th
IN WITNESS W day of	VHEREOF, the Cast	Companies have cause 2012	d this instrument to b	e signed and their co	rporate seals to be l	hereto affixed, this	
		Fidelity and Guara St. Paul Fire and M	ity Company nty Insurance Comp nty Insurance Under larine Insurance Con Insurance Company	writers, Inc.	Travelers Ca Travelers Ca	cury Insurance Compa asualty and Surety Con asualty and Surety Con as Fidelity and Guarant	npany npany of America
CASUA 1982 1982 1000 1000 1000 1000 1000 1000 1000 10	1977)	MCORPORATED STATES	(AME)	SEAL S	TASUGATOR TO THE PART OF THE P	FORD, CONN.	HICCOCOUNTED TO THE PARTY AND
State of Connect City of Hartford				Ву:	George	W Thompson, Senior Vice	President
himself to be the Inc., St. Paul Fit Company, Travel	re and Marine In lers Casualty and	surance Company, S Surety Company of	t. Paul Guardian Insu America, and United	idelity and Guaranty trance Company, St. States Fidelity and (Insurance Compan Paul Mercury Insuranty Company	ny, Fidelity and Guaranty urance Company, Trave	oson, who acknowledged Insurance Underwriters, lers Casualty and Surety eing authorized so to do, officer.
		set my hand and offici day of June, 2016.	al seal.		Υ	Marie C. Tetreauit,	Jatreault Notary Public

58440-6-11Printed in U.S.A.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States. Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Second Vice President, any Vice President, and Vi President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 30th day of December



















To verify the authenticity of this Power of Attorney, cail 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

			*
			٠

SECTION H: AGREEMENT

THIS AGREEMENT made this _______ day of ________ in the year Two Thousand and Fifteen between <u>J. H. FINDORFF & SON, INC.</u> 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 <u>MARCH 3, 2015</u>, 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:

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:

FIRE STATION ADMINISTRATION OFFICE BUILDING AND FIRE STATION NO. 1 – (HOVDE PROPERTY TENANT IMPROVEMENTS) CONTRACT NO. 6891

- 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 <u>SEE SPECIAL PROVISIONS</u>, 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 <u>EIGHT MILLION THREE HUNDRED</u> <u>EIGHTY-THREE THOUSAND</u> (\$8,383,000.00) 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 unless otherwise noted in Section D: Special Provisions, Subsection 102.10 – Minimum Rate of Wage Scale.

"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, gender identity, 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, sexual orientation, gender identity 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, sexual orientation, gender identity 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, sexual orientation, gender identity 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 Affirmative Action Division Manager.

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. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

FIRE STATION ADMINISTRATION OFFICE BUILDING AND FIRE STATION NO. 1 – (HOVDE PROPERTIES TENANT IMPROVEMENTS)

CONTRACT NO. 6891

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:	J.H. FINDORFF & SON, INC.
Form Largent 3/04/15	Company Name Sul E 2 3/2/15
Witness Date	President Date 3/2/25
W M M 3/2/15	Madema
Witness Date	Secretary Date /
CITY OF MADISON, WISCONSIN	
Provisions have been made to pay the liability that will accrue under this contract.	Approved as to form:
Finance Director Signed this 2 4 m day of	City Attorney
Ann son	Jan 3-24-15
Witness	Mayor Date
Witness Witness	Maibeth Witzel-Behl 3-10-2015 City Clerk Date
	-n,

			1
			!
			!
			1

SECTION 1: PAYMENT AND PERFORMANCE BOND

ANOVY ALL MEN DI THESE PRESENTS, MAN WE STA	
as principal, and TRAVELERS CASUALTY AND Company of	SURETY COMPANY OF AMERICA
Madison, Wisconsin, in the sum of EIGHT MILLI (\$8,383,000.00); Dollars, lawful money of the United S Madison, we hereby bind ourselves and our respectives.	states, for the payment of which sum to the City of
The condition of this Bond is such that if the above perform all of the terms of the Contract entered into be construction of:	
FIRE STATION ADMINISTRATION STATION NO. 1 – (HOVDE PROPER CONTRACT	RTIES TENANT IMPROVEMENTS)
in Madison, Wisconsin, and shall pay all claims fo prosecution of said work, and save the City harmless f in the prosecution of said work, and shall save harmle (under Chapter 102, Wisconsin Statutes) of employees to be void, otherwise of full force, virtue and effect.	rom all claims for damages because of negligence ess the said City from all claims for compensation
Signed and sealed thisday ofday of	March, 2015
Countersigned:	J.H. FINDORFF & SON, INC.
	Company Name (Principal)
and Mh	a h. B.CO
Witness Secretary Secretary	President Seal
Approved as to form:	RAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
/ oll P / M	Surety Seal Salary Employee Commission
	By John Walk
City Attorney .	Attorhey-in-Fact John W. Walsh
This certifies that I have been duly licensed as an acticense No. 168955 for the year 20 authority to execute this payment and performance bond	15, and appointed as attorney-in-fact with
March 4 2015	Ore Wall
March 4, 2015 Date	Agent Signature John W. Walsh

					* **
			*		
				•	

TRAVELERS

POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company Travelers Casualty and Surety Company Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

Attorney-In Fact No.

228043

Certificate No. 005933778

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

John W. Walsh, Betsy K. Wright, Tina L. Domask, and Ross S. Squires

of the City ofMadisor	1	, State of	Wisconsin	, t	heir true and lawful	Attorney(s)-in-Fact,
each in their separate capacity other writings obligatory in the contracts and executing or gua	ne nature thereof on behalf	of the Companies in the	eir business of guaranteei	ing the fidelity of p	ersons, guaranteein	
						2-1
IN WITNESS WHEREOF, day of	the Companies have caused, 2014	this instrument to be s	gned and their corporate s	eals to be hereto aff	fixed, this	2nd
	Fidelity and Guaran	ty Insurance Compan ty Insurance Underwi nrine Insurance Comp	y Tr iters, Inc. Tr	avelers Casualty a	surance Company nd Surety Compan nd Surety Compan y and Guaranty Co	y of America
1982 1982 1977	MINISTRATE OF THE PROPERTY OF	THE STANCES OF STANCES	PORATE SEAL S	WARTFORD, CONN.	HARTFORD S	HISTORIAN AND AND AND AND AND AND AND AND AND A
State of Connecticut City of Hartford ss.			Ву:	Robert L. Ran	ey, Senior Vice Preside	nt
On this the 2nd	day of June	,	. before me persona	lly appeared Robert	L. Ranev, who ack	nowledged himself to

In Witness Whereof, I hereunto set my hand and official seal. My Commission expires the 30th day of June, 2016.



instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

Marie C. Tetreault, Notary Public

58440-8-12 Printed in U.S.A.

be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, and Vi President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, and Vi any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 4th day of March ,2015.



















To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

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: 1/7/2015

Issued On: 1/7/2015 **DETERMINATION NUMBER:** 201500014 **EXPIRATION DATE:** Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2015. If NOT, You MUST Reapply. ALL PUBLIC WORKS PROJECTS UNDER SEC. 66.0903, STATS-CITY OF MADISON PROJECT NAME: 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: Time and one-half must be paid for all hours worked: 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 - 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. 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. A DOT Premium (discussed below) may supersede this time and one-half requirement. When a specific trade or occupation requires a future increase, you MUST add the full hourly increase **FUTURE 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, whevenever such pay is applicable. This premium only applies to highway and bridge projects owned by the Wisconsin Department of DOT PREMIUM: 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. Pay apprentices a percentage of the applicable journeyperson's hourly basic rate of pay and hourly APPRENTICES: 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			
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE <u>OF PAY</u> \$	HOURLY FRINGE BENEFITS \$	TOTAL
101	Acoustic Ceiling Tile Installer Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
102	Boilermaker Future Increase(s): Add \$1.50/hr. on 01/01/2016	33.35	28.24	61.59
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$1.40 on 06/01/2015; Add \$1.45 on 06/06/2016 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.	32.82	18.66	51.48
104	Cabinet Installer Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016. 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.	32.72	16.00	48.72
106	Carpet Layer or Soft Floor Coverer Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
107	Cement Finisher	31.98	12.04	44.02
108	Drywall Taper or Finisher	26.05	18.23	44.28
109	Electrician Future Increase(s): Add \$1.20/hr on 6/1/15; Add \$1.25/hr on 6/1/16. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.82	19.67	54.49
110	Elevator Constructor	43.84	27.09	70.93

CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL \$
111 -	Fence Erector	18.00	6.09	24.09
112	Fire Sprinkler Fitter	36.79	18.81	55.60
113	Glazier Future Increase(s): Add \$.75/hr eff. 06/01/2015; Add \$.90/hr eff. 06/01/2016	37.07	14.42	51.49
114	Heat or Frost Insulator	33.43	25.81	59.24
115	Insulator (Batt or Blown) Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016.	32.72	16.00	48.72
116	Ironworker	31.50	20.01	51.51
117	Lather	31.40	15.90	47.30
118	Line Constructor (Electrical)	39.50	17.73	57.23
119	Marble Finisher	16.25	2.32	18.57
120	Marble Mason	32.09	18.04	50.13
121	Metal Building Erector	19.05	8.08	27.13
122	Millwright Future Increase(s): Add \$1.47/hr on 6/1/2015; Add \$1.47/hr on 6/1/2016.	34.44	16.07	50.51
123	Overhead Door Installer	27.46	1.98	29.44
124	Painter	25.75	16.60	42.35
125	Pavement Marking Operator	30.10	17.34	47.44
126	Piledriver Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.60/hr on 6/1/2016. Premium Increase(s): Add \$.65/hr for Piledriver Loftsman; Add \$.75/hr for Sheet Piling Loftsman. DOT PREMIUM: Pay two times	30.11	26.51	56.62
-	the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
127	Pipeline Fuser or Welder (Gas or Utility)	30.83	20.89	51.72
129	Plasterer Future Increase(s): Add \$1.56 on 06/01/2015; Add \$1.61 on 06/01/2016; Add\$1.66 on 06/01/2017	32.65	19.36	52.01
130	Plumber Future Increase(s): Add \$1.80 on 6/1/15	37.57	17.47	55.04

201

203

Single Axle or Two Axle

Three or More Axle

	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY	HOURLY	
CODE	TRADE OR OCCUPATION	BASIC RATE OF PAY \$	FRINGE BENEFITS \$	TOTAL \$
132	Refrigeration Mechanic Future Increase(s): Add \$1.80 on 6/1/15	44.20	18.26	62.46
133	Roofer or Waterproofer	29.40	11.31	40.71
134	Sheet Metal Worker	34.45	22.54	56.99
135	Steamfitter Future Increase(s): Add \$1.80/hr on 6/1/15.	44.20	18.26	62.46
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.	22.50	12.74	35.24
138	Temperature Control Installer	42.95	15.04	57.99
39	Terrazzo Finisher	16.25	2.32	18.57
40	Terrazzo Mechanic	31.18	17.35	48.53
41	Tile Finisher	23.85	17.18	41.03
142	Tile Setter	29.81	17.18	46.99
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
44	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
46	Well Driller or Pump Installer	25.32	15.65	40.97
47	Siding Installer	36.17	19.44	55.61
50	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	30.16	15.11	45.27
51	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	26.76	58.36
52	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	14.49	42.14
53	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.83	15.01	42.84
54	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.90	9.83	31.73
	TRUCK DRIVERS			
ODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL \$

32.89

18.00

18.96

21.99

51.85

39.99

Z _{1-y}	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY	HOURLY	
CODE	TRADE OR OCCUPATION	BASIC RATE OF PAY \$	FRINGE BENEFITS \$	TOTAL \$
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	18.00	21.99	39.99
	LABORERS		-	
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	<u>TOTAL</u>
· · ·		\$	\$	\$
301	General Laborer Future Increase(s): Add \$1.35/hr eff. 06/01/2015; Add \$1.25/hr eff. 06/06/2016	24.97	15.12	40.09
	Premium Increase(s): Add \$1.00/hr for certified welder; Add \$.25/hr for mason tender			
302	Asbestos Abatement Worker	18.00	9.58	27.58
303	Landscaper	18.75	10.26	29.01
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	21.55	14.14	35.69
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.	18.82	14.16	32.98
314	Railroad Track Laborer	14.50	5.29	19.79
315	Final Construction Clean-Up Worker Future Increase(s): Add \$1.35/hr eff. 06/01/2015; Add \$1.25/hr eff. 06/06/2016	24.97	15.12	40.09

HEAVY EQUIPMENT OPERATORS SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY

	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY \$	<u>BENEFITS</u> \$	<u>TOTAL</u> \$
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	33.69	19.78	53.47
	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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.			
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under).	33.69	19.78	53.47
~	Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	· · · · · · · · · · · · · · · · · · ·		
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor	31.62	19.78	51.40
	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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.			
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Premium Increase(s):	41.65	21.71	63.36
	Add \$.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).			

à	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	•
CODE	TRADE OR OCCUPATION	OF PAY \$	BENEFITS \$	TOTAL \$
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.	35.72	17.85	53.57
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.		20.40	55.86
	HEAVY EQUIPMENT OPERATORS EXCLUDING SITE PREPARATION, UTILITY, PAVING LA		VORK	
	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY	HOURLY	
CODE	TRADE OR OCCUPATION	BASIC RATE OF PAY \$	FRINGE BENEFITS \$	TOTAL \$
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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016. Premium Increase(s): Add \$.50/hr for >200 Ton; Add \$1/hr at 300 Ton; Add \$1.50/hr at 400 Ton; Add \$2/hr at 500 Ton & Over.	36.67	19.78	56.45
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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016. Premium Increase(s): Add \$.25/hr for all >45 Ton lifting capacity cranes.	35.42	19.78	55.20
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). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	34.22	19.78	54.00

	Fringe Benefits Must Be Paid On All Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY \$	BENEFITS \$	TOTAL \$
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	33.69	19.78	53.47
	(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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.			
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor	31.62	19.78	51.40
	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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.			
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work	30.99	19.78	50.77
	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 \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.			
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$1/hr on 6/1/2015; Add \$1/hr on 5/30/2016.	36.34	22.14	58.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add \$1.65/hr on 6/1/2015.	33.12	19.35	52.47
516	Fiber Optic Cable Equipment	28.89	17.95	46.84

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			
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked <u>TRADE OR OCCUPATION</u>	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL \$
103	Bricklayer, Blocklayer or Stonemason	32.09	18.04	50.13
105	Carpenter Future Increase(s): Add \$1.50/hr on 6/1/2015; Add \$1.65/hr on 6/1/2016. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	34.13	20.61	54.74
107	Cement Finisher Future Increase(s): 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.	35.18	16.78	51.96
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.	33.93	22.77	56.70
111	Fence Erector	18.00	6.09	24.09
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	39.50	17.73	57.23
125	Pavement Marking Operator	30.10	17.34	47.44
126	Piledriver	29.56	25.71	55.27
130	Plumber	21.50	0.00	21.50
135	Steamfitter	42.95	17.81	60.76
137	Teledata Technician or Installer	22.25	12.24	34.49
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30

CODE TRADE OR OCCUPATION OF PAY \$ BENE \$ 146 Well Driller or Pump Installer 25.32 1 150 Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION 35.55 1 151 Light Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY 31.60 1 152 Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY 27.65 1 153 Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY 25.68 1 154 Groundman - ELECTRICAL LINE CONSTRUCTION ONLY 21.75 1 TRUCK DRIVERS Fringe Benefits Must Be Paid On All Hours Worked HOURLY BASIC RATE OF PAY \$ FRING OF PAY \$ 201 Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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. 19.50 203 Three or More Axle 19.50 204 Articulated, Euclid, Dumptor, Off Road Material Hauler 32.89 11 205 Pavement Marking Vehicle 20.85 1	### TOT ### ### ### ### ### ### ### ###	\$ \$ 15.65 40 15.57 51 15.19 46 13.44 41 13.28 38 12.97 34 HOURLY FRINGE BENEFITS \$ \$ \$
150	15.57 51 15.19 46 13.44 41 13.28 38 12.97 34 RLY GE FITS TOT \$	15.57 51 15.19 46 13.44 41 13.28 38 12.97 34 HOURLY FRINGE BENEFITS TOTS \$
151	15.19 46 13.44 41 13.28 38 12.97 34 RLY GE FITS TOT \$	15.19 46 13.44 41 13.28 38 12.97 34 HOURLY FRINGE BENEFITS TOTS \$
152 Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY 27.65 1 153 Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY 25.68 1 154 Groundman - ELECTRICAL LINE CONSTRUCTION ONLY 21.75 1	3.44 41 3.28 38 2.97 34 RLY GE FITS TOT \$	13.44 41 13.28 38 12.97 34 HOURLY FRINGE BENEFITS \$
153 Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY 25.68 1 154 Groundman - ELECTRICAL LINE CONSTRUCTION ONLY 21.75 1	13.28 38 12.97 34 RLY GE FITS TOT	13.28 38 12.97 34 HOURLY FRINGE BENEFITS \$
TRUCK DRIVERS Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015, 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. 203 Three or More Axle 204 Articulated, Euclid, Dumptor, Off Road Material Hauler 205 Pavement Marking Vehicle 21.75 HOURLY BASIC RATE FRINC OF PAY \$ \$ 25.18 11 25.18 12 25.18 13 26 27 28 29 20 20 20 20 20 20 20 20 20	RLY GE FITS TOT	HOURLY FRINGE BENEFITS TOTS
TRUCK DRIVERS Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION Single Axle or Two Axle Future Increase(s): Add \$1.15/hr of 6/1/2015. 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. Three or More Axle Articulated, Euclid, Dumptor, Off Road Material Hauler 205 Pavement Marking Vehicle Truck Mechanic TRUCK DRIVERS HOURLY BASIC RATE FRINC BENET \$ 25.18 13 25.18 14 25.18 15 25.18 16 25.18 17 25.18 17 26 27 Truck Mechanic	RLY GE FITS TOT \$	HOURLY FRINGE BENEFITS TOT
Fringe Benefits Must Be Paid On All Hours Worked CODE TRADE OR OCCUPATION Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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. Three or More Axle Articulated, Euclid, Dumptor, Off Road Material Hauler 205 Pavement Marking Vehicle Truck Mechanic HOURLY BASIC RATE FRINCE FRINCE BENEIL 25.18 10 25.18 11 25.18 12 25.18 12 25.18 13 26 27 19.50 48 28 19.50 48 29 19.50	GE FITS TOT \$	FRINGE BENEFITS TOT \$
CODETRADE OR OCCUPATIONBASIC RATE OF PAY \$FRINC BENET \$201Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.19.50203Three or More Axle19.50204Articulated, Euclid, Dumptor, Off Road Material Hauler32.8913.2.89205Pavement Marking Vehicle20.8511.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	GE FITS TOT \$	FRINGE BENEFITS TOT \$
Future Increase(s): Add \$1.15/hr on 6/1/2015. 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. 203 Three or More Axle 204 Articulated, Euclid, Dumptor, Off Road Material Hauler 205 Pavement Marking Vehicle 207 Truck Mechanic 19.50	8.31 43	18.31 43
204 Articulated, Euclid, Dumptor, Off Road Material Hauler 32.89 12 205 Pavement Marking Vehicle 20.85 12 207 Truck Mechanic 19.50		
205 Pavement Marking Vehicle 20.85 12 207 Truck Mechanic 19.50	4.97 24.	4.97 24
207 Truck Mechanic 19.50	8.96 51.	18.96 51
	1.02 31.	11.02 31
LABORERS	4.97 24.	4.97 24
BASIC RATE FRING	GE	
	5.13 41.	
over 30 lbs. compressed air.	0.00 39.	0.00 39

CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked <u>TRADE OR OCCUPATION</u>	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL
304	Flagperson or Traffic Control Person	31.95	0.00	31.95
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
314	Railroad Track Laborer	14.50	5.29	19.79
	HEAVY EQUIPMENT OPERATORS SEWER, WATER OR TUNNEL WOR			
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	<u>TOTAL</u>
		\$	\$	\$
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. of 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.		20.10	57.34
	Future Increase(s): Add \$1.55/hr on 6/1/2015. Premium Increase(s): Add \$.25/hr for operating tower crane.			
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; Skick Rig; Telehandler; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.		19.78	54.00
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):		19.78	53.47

, cope	Fringe Benefits Must Be Paid On All Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	TOTAL
CODE	TRADE OR OCCUPATION	OF PAY	<u>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	30.82	18.96	49.78
	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.			
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	30.69	18.46	49.15
	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.)		
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	30.19	18.96	49.15
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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.	41.65	21.71	63.36
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000	35.72	17.85	53.57
	Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.			,
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.	35.46	20.40	55.86

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						
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	<u>TOTAL</u> \$		
103	Bricklayer, Blocklayer or Stonemason	32.09	18.04	50.13		
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016. 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.	32.72	16.00	48.72		
107	Cement Finisher Future Increase(s): 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 &	35.18	16.78	51.96		
	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.					
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.	33.93	22.77	56.70		
111	Fence Erector	18.00	6.09	24.09		
16	Ironworker	31.50	20.01	51.51		
18	Line Constructor (Electrical)	39.50	17.73	57.23		
24	Painter	26.65	13.10	39.75		
25	Pavement Marking Operator	29.22	25.90	55.12		
26	Piledriver Future Increase(s): Add \$1.44/hr on 6/1/2015; Add \$1.44/hr on 6/1/2016. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.24	16.00	49.24		
33	Roofer or Waterproofer	29.40	11.31	40.71		

CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked <u>TRADE OR OCCUPATION</u>	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE <u>BENEFITS</u> \$	TOTAL
137	Teledata Technician or Installer	22.25	12.24	34.49
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.29	46.89
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	12.83	38.51
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.73	12.17	33.90
	TRUCK DRIVERS			
<u>CODE</u>	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS	TOTAL \$
201	Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.	25.18	18.31	43.49
203	Three or More Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. 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.	25.28	18.31	43.59
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. 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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/busine ss/civilrights/laborwages/pwc.htm.	30.27	21.15	51.42
205	Pavement Marking Vehicle	23.16	21.13	44.29
206	Shadow or Pilot Vehicle	24.37	17.77	42.14

207	Truck Mechanic	• •	24.52	17.77	42.29
.	LABORERS	•			•
_	LABORERO		-	· · · · · · · · · · · · · · · · · · ·	· ·
	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		URLY SIC RATE	HOURLY FRINGE	
ODE	TRADE OR OCCUPATION		PAY	BENEFITS \$	TOTAL \$
		Ψ	+		* '
01	General Laborer		30.41	15.14	45.55
	Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff.				
	06/01/2016; Add \$1.00/hr eff. 06/01/2017				
4	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).				
02	Asbestos Abatement Worker		10.00	0.50	07.50
02	Aspestos Abatement Worker		18.00	9.58	27.58
03	Landscaper		30.41	15.14	45.55
	Future Increase(s):				
	Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff.				
	06/01/2016; Add \$1.00/hr eff. 06/01/2017				
	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).				
)4	Flagperson or Traffic Control Person		26.76	15 14	44.00
J4 1	Future Increase(s):		26.76	15.14	41.90
	Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff.				
	06/01/2016; Add \$1.00/hr eff. 06/01/2017				

2 - 3	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS	TOTAL
ing the second 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.	<u>.</u>		
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
314	Railroad Track Laborer	14.50	5.29	19.79
	HEAVY EQUIPMENT OPERATORS AIRPORT PAVEMENT OR STATE HIGHWAY CO			
	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS	TOTAL
	Over Town Orang Barbart Town on Barbart Will Barbart Start	\$	\$	\$
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 Ove 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type).	37.72 r	21.15	58.87
	Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.			
	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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.			
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		21.15	58.37
	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	. 	4 · · · · · · · · · · · · · · · · · · ·	
	Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.			
	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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of			,
	this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.			

	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS .	TOTAL
		\$	\$	\$
533	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster;	36.72	21.15	57.87

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.

Future Increase(s):

Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.

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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.

}	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY	HOURLY	
CODE	TRADE OR OCCUPATION	BASIC RATE OF PAY \$	FRINGE BENEFITS \$	<u>TOTAL</u> \$
534	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,	36.46	21.15	57.61
	Automatic); Jeep Digger; Joint Sawer (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. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.			
	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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of			
	this night work premium at: http://www.dot.wi.gov/busine ss/civilrights/laborwages/pwc.htm.			
535	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	36.17	21.15	57.32
	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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.			
	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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.			
536	Fiber Optic Cable Equipment.	28.89	17.95	46.84
537	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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.	41.65	21.71	63.36

	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	e e e e e e e e e e e e e e e e e e e
CODE	TRADE OR OCCUPATION	OF PAY \$	BENEFITS \$	TOTAL \$
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.	35.72	17.85	53.57
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.	35.46	20.40	55.86

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION

Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

	SKILLED TRADES			
<u>CODE</u>	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	<u>TOTAL</u> \$
103	Bricklayer, Blocklayer or Stonemason	32.09	18.04	50.13
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2015; Add \$1.42/hr on 6/1/2016. 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.	32.72	16.00	48.72
107	Cement Finisher Future Increase(s): Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16.	35.18	16.78	51.96
	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.			
109	Electrician	35.72	19.17	54.89
111	Fence Erector	18.00	6.09	24.09
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	39.50	17.73	57.23
124	Painter	25.75	16.60	42.35
125	Pavement Marking Operator	30.10	17.34	47.44
126	Piledriver	29.56	25.71	55.27
133	Roofer or Waterproofer	29.40	11.31	40.71
137	Teledata Technician or Installer	22.25	12.24	34.49
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12

	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS \$	TOTAL \$
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.19	46.79
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	13.28	38.96
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72
	TRUCK DRIVERS	· 		
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	<u>TOTAL</u>
		\$	\$	\$
201	Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015.	25.18	18.31	43.49
	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.			
203	Three or More Axle	16.00	0.00	16.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.	33.69	19.78	53.47
205	Pavement Marking Vehicle	20.85	11.02	31.87
206	Shadow or Pilot Vehicle	24.37	17.77	42.14
207	Truck Mechanic	16.00	0.00	16.00
	LABORERS			
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL \$
301	General Laborer	29.32	12.44	41.76
303	Landscaper Future Increase(s): Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff.	30.13	15.14	45.27

Add \$1.05/hr eff. 06/01/2015; Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Increase(s):

ka	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	•
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS	<u>TOTAL</u>
4	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).			
304	Flagperson or Traffic Control Person	19.06	14.29	33.35
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
314	Railroad Track Laborer	14.50	5.29	19.79
	HEAVY EQUIPMENT OPERATOR CONCRETE PAVEMENT OR BRIDGE			
	Fringe Benefits Must Be Paid On All Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS	TOTAL
	·	\$	\$	\$
541	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without	37.72	21.15	58.87
	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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016;			
	Add \$1.25/hr on 6/1/2017. 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 \$1.50/hr night work premium.			
	See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/busine			

this night work premium at: http://www.dot.wi.gov/busine ss/civilrights/laborwages/pwc.htm.

A-Frames.

Defett	lination No. 201500014			age 25 01 32
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL
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		21.15	58.37
	Lbs. & Under, Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under;			
	Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver.			
	Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.			
	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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.			
543	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s	35.72	17.85	53.57
	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 &

J. 1	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	<u>OF PAY</u>	<u>BENEFITS</u>	TOTAL
		\$	\$	\$
544	Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawer (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		21.15	57.61
	Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. 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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/busine			
	ss/civilrights/laborwages/pwc.htm.			
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.	35.17	20.40	55.57
546	Fiber Optic Cable Equipment.	28.89	17.95	46.84
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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.	41.65	21.71	63.36
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000	35.72	17.85	53.57
	Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.			
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.	35.46	20.40	55.86

HEAVY EQUIPMENT OPERATORS ASPHALT PAVEMENT OR OTHER WORK

CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE <u>BENEFITS</u> \$	TOTAL \$
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.	36.72	20.40	57.12
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. Future Increase(s):	37.22	21.15	58.37
	Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. 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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/busine ss/civilrights/laborwages/pwc.htm.			
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.	33.69	19.78	53.47

Ļ∴.ja	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY \$	BENEFITS \$	TOTAL \$
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 Sawer (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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.	36.17	20.80	56.97
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 \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. 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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/busine ss/civilrights/laborwages/pwc.htm.	36.17	21.15	57.32
556	Fiber Optic Cable Equipment.	27.89	17.20	45.09

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			
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE <u>BENEFITS</u> \$	TOTAL \$
101	Acoustic Ceiling Tile Installer	33.07	16.07	49.14
102	Boilermaker	32.05	28.04	60.09
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$1.40 on 06/01/2015; Add \$1.45 on 06/06/2016 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.	32.82	18.66	51.48
104	Cabinet Installer	34.42	0.00	34.42
105	Carpenter	31.40	2.01	33.41
106	Carpet Layer or Soft Floor Coverer	30.00	0.00	30.00
107	Cement Finisher	24.08	0.00	24.08
108	Drywall Taper or Finisher	8.50	0.00	8.50
109	Electrician	20.00	6.62	26.62
110	Elevator Constructor	23.26	0.00	23.26
111	Fence Erector	16.00	3.76	19.76
112	Fire Sprinkler Fitter	39.00	18.00	57.00
113	Glazier Future Increase(s): Add \$.75/hr eff. 06/01/2015; Add \$.90/hr eff. 06/01/2016	37.07	14.42	51.49
114	Heat or Frost Insulator	33.43	25.81	59.24
115	Insulator (Batt or Blown)	23.00	10.55	33.55
116	Ironworker	31.50	20.01	51.51
117	Lather	31.40	2.01	33.41
119	Marble Finisher	16.25	2.32	18.57
120	Marble Mason	32.09	18.04	50.13

201

203

205

207

Single Axle or Two Axle

Pavement Marking Vehicle

Three or More Axle

Truck Mechanic

16.50

20.44

31.87

20.44

0.00

2.44

11.02

2.44

16.50

18.00

20.85

18.00

L 118	Fringe Benefits Must Be Paid On All Hours Worked	HOURLY	HOURLY	-
<u>CODE</u>	TRADE OR OCCUPATION	BASIC RATE <u>OF PAY</u> \$	FRINGE <u>BENEFITS</u> \$	TOTAL \$
121	Metal Building Erector	18.00	5.88	23.88
123	Overhead Door Installer	16.65	1.03	17.68
124	Painter	25.75	8.94	34.69
125	Pavement Marking Operator	18.75	2.47	21.22
129	Plasterer	25.00	10.45	35.45
130	Plumber	30.00	10.44	40.44
132	Refrigeration Mechanic	17.00	13.56	30.56
133	Roofer or Waterproofer	15.00	1.37	16.37
134	Sheet Metal Worker	22.54	5.20	27.74
135	Steamfitter	23.62	16.12	39.74
137	Teledata Technician or Installer	18.00	28.48	46.48
138	Temperature Control Installer	22.00	1.62	23.62
139	Terrazzo Finisher	16.25	2.32	18.57
140	Terrazzo Mechanic	30.71	16.52	47.23
141	Tile Finisher	23.85	17.18	41.03
142	Tile Setter Future Increase(s): Add \$1.40/hr on 6/01/2015; Add \$1.45/hr on 6/06/2016.	31.55	18.26	49.81
143	Tuckpointer, Caulker or Cleaner	14.00	8.75	22.75
146	Well Driller or Pump Installer	12.75	9.50	22.25
147	Siding Installer	17.25	0.00	17.25
	TRUCK DRIVERS			
CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE <u>OF PAY</u> \$	HOURLY FRINGE BENEFITS	TOTAL \$

ΙΔ	BO	RF	RS

CODE	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE <u>OF PAY</u> \$	HOURLY FRINGE BENEFITS \$	TOTAL
301	General Laborer	24.21	8.02	32.23
302	Asbestos Abatement Worker	16.50	8.21	24.71
303	Landscaper	12.00	0.00	12.00
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.33	13.65	31.98
315	Final Construction Clean-Up Worker	10.00	3.47	13.47
	HEAVY EQUIDMENT OBEDA	TORC		

HEAVY EQUIPMENT OPERATORS RESIDENTIAL OR AGRICULTURAL CONSTRUCTION

	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked	HOURLY BASIC RATE	HOURLY FRINGE	
CODE	TRADE OR OCCUPATION	OF PAY	BENEFITS	<u>TOTAL</u>
		\$	\$	\$
557	Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type); Backhoe (Mini, 15,000 Lbs. & Under);	34.22	19.78	54.00

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, Tlmbco, 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.

Future Increase(s):

Add \$1.60/hr on 6/2/2015; Add \$1.60/hr on 6/3/2016.

553

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.

Future Increase(s):

Add \$1.25/hr on 6/1/2015; Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.

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 \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http://www.dot.wi.gov/business/civilrights/laborwages/pwc.htm.

36.72 21.15

57.87

