# IOWA DEPARTMENT OF NATURAL RESOURCES LAND & WATERS BUREAU WALLACE STATE OFFICE BUILDING

LAKE WAPELLO STATE PARK
OFFICE AND STORAGE BUILDING
DAVIS COUNTY, IOWA
PROJECT NUMBER: 23-05-26-01

April 13, 2023

This Addendum is issued to modify, explain or correct the original Drawings and Specifications, and is hereby made a part of the Contract Documents. Please attach this Addendum to the Project Manual in your possession. Insert the number and issue date of this Addendum in the blank space provided on the Proposal Form.

#### **Substitutions:**

- 1. Alumination Plank System 6" aluminum soffit panels are an approved substitution to the specified decorative soffit under the overhang canopy. Color to be Wood Grain Douglas Fir.
- Please review the attached addendum, prepared by KCL Engineering, for more information.



218 1/2 5th Street West Des Moines, IA 50265 515.724.7938 IDNR Lake Wapello State Park Office & Storage Building Addendum #3 April 14, 2023

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications.

#### Mechanical – Approved Manufacturers:

#### **CONSULTING ENGINEERS**

Electrical
Lighting
Mechanical
Plumbing

Spec SectionItemManufacturer15855Diffusers, Registers & GrillesAnemostat

#### **Electrical Drawings:**

- 1. Drawing E-400 ELECTRICAL SCHEDULES:
  - a. Clarify the lighting fixture schedule.
  - b. Clarify load for circuit 3 on Panel A.

#### <u>Electrical – Approved Manufacturers:</u>

The following shall be added to specifications as approved manufacturers:

<u>Light Fixture Type</u>	<u> Manufacturer</u>
F3	METALUX
F4	METALUX

Drawings Attached: E-400.

End of Electrical Addendum.

www.kdengineering.com Page 1 of 1

- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
- 2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
- 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
- 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
- 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

										DESIGNED	BY: DEB
TYPE	<b>MANUFACTURER</b>	<u>MODEL</u>	<u>DESCRIPTION</u>	<u>FINISH</u>	<u>LUMENS</u>	<u>CRI</u>	DRIVER TYPE	SOURCE-CCT	<b>VOLTAGE</b>	LOAD-VA	APPROVED EQUALS
E1	LITHONIA LIGHTING	ELM2L-120/347-SDRT	EMERGENCY UNIT, WALL OR CEILING MOUNTED, 2 LED ADJUSTABLE LAMP HEADS, MAINTENANCE FREE BATTERY	WHITE	EM	N/A	N/A	LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
E1-W	LITHONIA LIGHTING	ELM2L-UVOLT-SDRT / ELAWG1	EMERGENCY UNIT, WALL OR CEILING MOUNTED, 2 LED ADJUSTABLE LAMP HEADS, MAINTENANCE FREE BATTERY, WIRE GUARD	WHITE	EM	N/A	N/A	LED	120 V	2VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
F1	LITHONIA LIGHTING	CLX-L48-5000LM-HEF-FDL-WD-120-GZ10-LUGR-40K-80C	CORD SET INSTALLATION, CHAIN HUNG 4' UTILITY STRIPLIGHT, FLAT ACRYLIC LENS, GENERAL DISTRIBUTION, GLARE REFLECTOR ACCESSORY. DAMP LISTED. PROVIDE AN ALLOWANCE FOR PLUG-READY LUMINAIRE. CONTRACTOR TO VERIFY OR PROVIDE SO CORD IF NOT INCLUDED WITH LUMINIARE. CONTRACTOR TO INSTALL IN FIELD.	WHITE	5000	80	0-10V DIMMING TO 10%	LED-4000K	120 V	32 VA	AS APPROVED BY ENGINEER
F2	LITHONIA LIGHTING	L4/13LM40K-120-G480CRFZXTXWPR-CSSWET	RECESSED 4"ROUND DOWNLIGHT, PARABOLIC REFLECTOR, WIDE DISTRIBUTION, DAMP LOCATION	SEMI-SPECULAR	1300	80	0-10V DIMMING TO 10%	LED - 4000K	120 V	12 VA	ALPHABET LIGHTING, COOPER HALO OR AS APPROVED BY ENGINEER
F3	CREE LIGHTING	ZR-22-30L-840-105-UNV	RECESSED 2x2 TROFFER, SMOOTH ACRYLIC LENS, DAMP LOCATION RATED	WHITE	3400	80	0-10V DIMMING TO 10%	LED-4000K	120 V	≥ 26 VA	WILLIAMS, COLUMBIA, OR AS APPROVED BY ENGINEER
F4	LITHONIA LIGHTING	CLX-L48-3600LM-HEF-FQL-WD-126-QZ10-40K-80CRI	CHÂN HUNG 4 UTILITY STRIPLIGHT, FLAT ACRYLIC LENS, GENERAL DISTRIBUTION	WHITE	3000	80	0-10V DIMMING TO 10%	LED-4000K	120 V	25 VA	∠ AS APPROVED BY ENGINEER
W1	HUBBELL LIGHTING	TRP1-24L-15-3K8-4W-UNV-DBT-PC-EH	BUILDING MOUNTED WALL PACK, TYPE 4 DISTRIBUTION, -30 DEGREE RATED EMERGENCY BATTERY PACK	BRONZE	1700	80	NON-DIMMING	LED-3000K	120 V	15 VA	LITHONIA LIGHTING, COOPER MCGRAW-EDISON, OR AS APPROVED BY ENGINEER
X1	LITHONIA LIGHTING	LQM-S-W-3-R-MVOLT-EL-N-SD	BACK MOUNTED EXIT SIGN, SINGLE FACE, THERMOPLASTIC HOUSING, SELF-DIAGNOSTICS	WHITE	N/A	N/A	N/A	RED LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
X1-W	LITHONIA LIGHTING	LQM-S-W-3-R-MVOLT-EL-N-SD/ELAWG1	BACK MOUNTED EXIT SIGN, SINGLE FACE, THERMOPLASTIC HOUSING, SELF-DIAGNOSTICS, WIRE GUARD	WHITE	N/A	N/A	N/A	RED LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
				•		•					

LOCATION: SUPPLY FROM: MOUNTING: SU ENCLOSURE: TY		VOLTAGE: PHASES: WIRES:	1	SINGLE	SCCR RATING: 25,000 A MAINS TYPE: MCB MAINS RATING: 225 A MCB RATING: 225 A									
TEGRAL SURGE PROTECTION DEVIC	E P		AMP	CKT NO		Α	1	В	CKT NO	AMP	Р	CIR	CUIT DESCRIPTION	
SHOP LIGHTING	1		20 A	1	551	360			2	20 A	1	Oliv	CORD REELS	
OFFICE LIGHTING	1		20 A	3			460	360	4	20 A	1		CORD REELS	
RCPT OFFICE	1		20 A	5	1080	30		) 333	6	20 A	1	F	EXTERIOR LIGHTING	
RCPT SHOP	1		20 A	7	1000		1080	1270	8	20 A	1		F-1	
RCPT SHOP  RCPT SHOP	1			9	1080	100	1000	1270		20 A	1		EF-1	
	1		20 A		1080	100	020	1100	10		1			
DOOR OPENER			20 A	11		4500	920	1100	12	20 A			EF-2	
DOOR OPENER	1		20 A	13	920	4500			14	20 A	1		CP-1	
DOOR OPENER	1		20 A	15			920	0	16	20 A	1		SPARE	
RCPT EXTERIOR	1		20 A	17	720	290			18	20 A	1		UH-1	
FUEL PUMP/EMERGENCY SHUT OFF	1		20 A	19			1500	290	20	20 A	1		UH-2	
RCPT BREAK ROOM	1		20 A	21	1080	290			22	20 A	1		UH-3	
MICROWAVE	1		20 A	23			800	600	24	20 A	2		AIR COMPRESSOR	
WASHER	1	G	20 A	25	1200	600			26	2071	_			
RCPT LAUNDRY, MECH	1		20 A	27			900	1750	28	50 A	2		DRYER	
REFRIGERATOR	1	G	20 A	29	1200	1750			30	50 A			DRTER	
DISPOSAL	1		20 A	31			800	2080	32	00.4				
				33	3250	2080			34	30 A	2	CU-1		
WELDER	2		50 A	35			3250	2250	36					
GAS DETECTION	1		20 A	37	920	2250			38	30 A	2		WH-1	
SPARE	1		20 A	39			0	0	40	20 A	1		SPARE	
SPARE	1		20 A	41	0	0			42	20 A	1		SPARE	
				L		4251 VA	203	30 VA			.		<del>-</del>	
				l		202 A		69 A						
GEND: " INDICATES GFCI TYPE BREAKER														
OAD CLASSIFICATION				CTED L	OAD	DEMAND FA		ESTIMA				PANEL	TOTALS	
GHTING				041 VA		125.00		1301		TOT		ONN LOAD	44504 \/4	
OWER ECEPTACLE				400 VA 140 VA	-	100.00° 73.65%		22400 15570				ONN. LOAD: T. DEMAND:		
			۷.	110 VA		70.007	-	10070	V7.1			TAL CONN.:		
										тот		T. DEMAND:		

## LIGHTING CONTROLS SCHEDULE

- 1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED.
- 2 ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY.
- 3. PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. MANUFACTURER OR MANUFACTURERS REP TO PROVIDE DEVICE QUANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE DIMMING TYPE.
- 4. WHERE WIRELESS LIGHTING CONTROLS ARE PROVIDED. POWERPACKS SHALL BE PROVIDED AND INSTALLED WITHIN MANUFACTURER RECOMENDED DISTANCES TO ENSURE CONTROLLER OPERATION.
- 5. INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS.
- 6. PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT.
- 7. WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECCESARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
- 8. ETD'S AND ALL EMERGENCY LIGHTING CONTROLS COMPONENTS SHALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WITH NORMAL LIGHTING CONTROLS IN ALL AREAS.
- 9. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:
- CORRIDORS, VESTIBULES, COMMON SPACES:

  SENSORS PROGRAMMED FOR OCCUPANCY MODE, AUTOMATIC ON/OFF OPERATION, 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.
- ALL OTHER SPACES SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.

INT INTEGRAL WITH EQUIPMENT FROM FACTORY

NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY

MMS MANUAL MOTOR STARTER WITH FUSES

RSR RUN STATUS RELAY, NORMALLY OPEN

SSP START/STOP PUSHBUTTON WITH PILOT

RD RETURN AIR DUCT DETECTOR

SD SUPPLY AIR DUCT DETECTOR

SS START/STOP PUSHBUTTON

TS TOGGLE SWITCH WITH PLUG FUSE

TOR TIME DELAY OFF RELAY

ST SHUNT TRIP

					D	ESIGNED BY: DEB
<u>TYPE</u>	DESCRIPTION	ELECTRICAL	MOUNTING	SENSOR TYPE	COVERAGE	APPROVED MANUFACTURERS
OS 1	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS.	120V	WALL SWITCH / SINGLE GANG	PASSIVE INFRARED	DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.
OS 2	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. WHITE FINISH. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER		CEILING / 8'-12' MH	PASSIVE INFRARED		HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, AS APPROVED BY ENGINEER.

## **EQUIPMENT CONNECTION SCHEDULE**

1. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

### **ABBREVIATIONS:** NEMA 1 ENCLOSURE

**GENERAL NOTES:** 

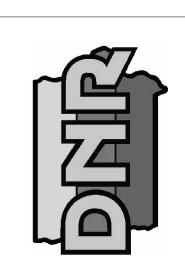
- 3R NEMA 3R ENCLOSURE
- NEMA 4 ENCLOSURE
- 4X NEMA 4X ENCLOSURE BO PROVIDED BY OTHERS
- CB CIRCUIT BREAKER IN PANEL CSD COMBINATION STARTER/DISCONNECT
- CP CORD AND PLUG PROVIDED WITH UNIT
- ECB ENCLOSED CIRCUIT BREAKER
- FDS FUSED DISCONNECT SWITCH, HEAVY DUTY

SETTINGS. INDOOR USE.

- GF GROUND FAULT CIRCUIT INTERRUPTION
- FAR FIRE ALARM SHUTDOWN RELAY
  - VFD VARIABLE FREQUENCY DRIVE
- HOA HAND-OFF-AUTO

		ELECTRICAL	<b>CHARACTERIS</b>	<u> </u>			DISC	CONNECT		
<u>TAG</u>	<u>VOLTAGE</u>	PHASE	MOTOR HP	<u>KW</u>	MCA	<u>TYPE</u>	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	REMARKS
CP-1	120 V	1		0.08		СВ				
CU-1	240 V	1			12	NFD	30	3R		PROVIDE AND INSTALL DISCONNECT
EF-1	120 V	1	FHP			INT				CONNECT TO LOCAL OCCUPANCY SENSOR WITH LIGHTS IN SPACE.
EF-2	120 V	1	1/4			HOA	20	1		POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH FAN. INSTALL PROVIDED HOA.
F-1	120 V	1	FHP			СВ				
MOD-1	120 V	1								POWER MOTORIZED LOUVER TO OPEN/CLOSE WITH FAN.
MOD-2	120 V	1								POWER MOTORIZED LOUVER TO OPEN/CLOSE WITH FAN.
UH-1	120 V	1			2.4					
UH-2	120 V	1			2.4					
UH-3	120 V	1			2.4					
WH-1	240 V	1		4.5		СВ				

RESOURCES



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NO. REVISION ADDENDUM 1 DRAWN BY: PROJECT NUMBER: DEB 23-05-26-01

CHK'D BY: DATE: JTL 03.21.2023

E-400