JOHNSON COUNTY COURTHOUSE **CLERK OF COURTS RENOVATION** 417 S. CLINTON ST., IOWA CITY, IOWA 52240



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- T-501.3 LOW VOLTAGE DETAILS T-502.3 LOW VOLTAGE DETAILS

SITE LOCATION 417 S CLINTON ST IOWA CITY, IA 52240

CODE INFORMATION:
THIS PROJECT INCLUDES RENOVATIONS WITHIN EXISTING SPACES WITHIN THE COURTHOUSE. THE WORK SCOPE INCLUDES DEMOLITION AND RENOVATIONS.
THE BUILDING IS LISTED ON THE NATIONAL REGISTER OF HISTORICAL PLACES.
OCCUPANCY:

B - OFFICE (SAME AS EXISTING OCCUPANCY) A3 - COURTROOMS (SECOND AND THIRD LEVELS ABOVE)

NON-SEPARATED OCCUPANCIES

FLOOR/CEILING ABOVE; MAINTAIN 1HR OCCUPANCY SEPARATION SEPARATE LOBBY AND OFFICE WITH SMOKE RATED CURTAIN ASSUMED BUILDING CONSTRUCTION TYPE: 3B BUILDING IS NON-SPRINKLERED

COMMON PATH OF EGRESS B OCCUPANCY = 100 FT

LIST OF ABBREVIATIONS

MECH

SF

MECHANICAL

ΔΤ

AC	ACOUSTICAL COMPONENT
ACST	ACOUSTICAL
ADJ	ADJACENT OR ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AI	ALUMINUM
ANOD	
APCC	ARCHITECTURAL PRECAST CONCRETE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATC	ACOUSTICAL THE CEILING
AVV	
BD	BOARD
BEJ	BRICK EXPANSION JOINT
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BBC	
DING	
CG	CORNER GUARD
CIPC	CAST-IN-PLACE CONCRETE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	
CONT	CONTINUOUS
CPT	CARPETING / CARPET TILE
CW	CURTAIN WALL
DBL	DOUBLE
DEMO	DEMOLITION / DEMOLISH
DN	DOWN
DR	DOOR
DWG	DRAWING(S)
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
F.J	EXPANSION JOINT
ELEC	
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
FX	EXPOSED
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF	
FEC	
FIN	FINISH
FLEX	FLEXIBLE
FLR	FLOOR
FTG	FOOTING
FURN	ELIRNITURE/ELIRNISHINGS
C	
GA	
GALV	GALVANIZED
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HM	HOLLOW METAL
HORI7	HORIZONTAL
HT	HEIGHT
ID	
INSUL	
INT	INTERIOR
JT	JOINT
MAS	MASONRY
MAX	MAXIMUM

MFR	MANUFACTURER
MIN	MINIMUM
MIRR	
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER OR DIMENSION
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED, OWNER INSTALLED
	OPENING
PCC	
PCONC	POLISHED CONCRETE
PEF	POURED EPOXY FLOORING
PL	PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNT	PAINT(ED)
PR	PAIR
K DD	
RD RCD	RESILIENT BASE REELECTED CEILING PLAN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCE OR REINFORCING
REQD	REQUIRE(D)
RF	RESILIENT FLOORING
RM	ROOM
RO	ROUGH OPENING
RST	REINFORCING STEEL
SAIC	SUSPENDED ACOUSTICAL TILE CEILING
SCONC	
SE	SOLIARE FOOT OR FEET
SHT	SHEFT
SHTHG	SHEATHING
SIM	SIMILAR
SIPS	STRUCTURAL INSULATED PANELS
SLNT	SEALANT
SLNT/BR	SEALANT AND BACKER ROD
SOG	SLAB-ON-GRADE
SSI	
STE	STANDARD
STI	STEFI
STRUCT	STRUCTURAL
SUSP	SUSPENDED
Т	TREAD OR TILE
T&B	TOP AND BOTTOM
TAC	TACKBOARD
TELECOM	TELECOMMUNICATION(S)
TOB	
	TOP OF CONCRETE/COUNTER
TOM	
TOS	TOP OF SLAB OR STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VERT	VERTICAL
VIF	
W/	
w/R	
WC.	WALL COVERING
WD	WOOD
WDP	WOOD PANEL
VVDP	WOOD PANEL

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed Architect under the laws of the State of lowa.

Date

Signature License renewal date

Pages or sheets covered by this seal: .

REFERENCE INDICATIONS

DETAIL SECTION



DETAIL IDENTIFICATION SHEET WHERE SHOWN



ELEVATION IDENTIFICATION

SHEET WHERE SHOWN

WALL SECTION SECTION IDENTIFICATION

A-101 SHEET WHERE SHOWN

BUILDING SECTION



WALL TYPE G1 _____ DOOR NUMBE 1132 A WINDOW TAG (10) **ROOF TAG** R1 FLOOR TAG F1 ADDENDUM TAG ELEVATIONS Name Elevation

ROOM IDENTIFICATIO Room name ROOM NAM

ROOM NUMBE **CASEWORK ELEVATION TAG** AWS SERIE

- HEIGHT WIDTH HEIGHT IS TO TOP OF COUNTER

MATERIAL SYMBOLS

GENERAL FILL		STEEL
BATT INSULATION		PLYWOOD
RIGID INSULATION		GYPSUM BOARD
FOAM-IN-PLACE INSULATION	to and and and and an early and the first for the first for the first standard the first for the first for the first for the first for the first	GROUT
GRANULAR DRAINAGE FILL		BRICK
CONCRETE		CONCRETE MASONRY UNIT
WOOD BLOCKING		WOOD SHIM

hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

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PROJECT NAME **JOHNSON** COUNTY **COURTHOUSE CLERK OF** COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

ISSUE DESCRIPTION DATE 02.03.2022 BIDDING DOCUMEN

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SHEET NAME **TITLE SHEET AND DRAWING INDEX**

SHEET NUMBER	





A2 CLERK OF COURTS - RCP DEMOLITION

DEMOLITION LEGEND

EXISTING WALLS

DOOR TO BE REMOVED

DEMOLITION KEYNOTES KEY VALUE KEYNOTE TEXT

- GYP. HEADWALL TO REMAIN REMOVE DOOR, FRAME, AND CASINGS; SALVAGE FOR REUSE REMOVE UPPER AND LOWER CASEWORK
- REMOVE STUD WALL REMOVE PORTION OF MASONRY WALL FOR NEW OPENING, SEE
- A-SHEETS FOR SIZE AND DETAILS. INSTALL LINTEL AND INFILL FLOOR
- REMOVE CEILING AND GRID REMOVE SOFFIT, INCLUDING ALL FRAMING AND GYP BD OR PLASTER
- REMOVE INTERIOR WINDOW AND FRAME
- REMOVE TILE AND MORTAR REMOVE CARPET TILE
- D15 D21

D1

D2

D3

D4

D5

D7

D11

D12

D13

D23

D25

D29

D30

D31

D32

- REMOVE MARBLE BASE AND PLINTH BLOCKS; SALVAGE FOR REUSE, TYP. REMOVE WOOD BASE; SALVAGE FOR REUSE, TYP.
- REMOVE BOOKSHELVES
- EXIST. SOFFIT TO REMAIN REMOVE AND REPLACE CONCRETE FLOOR SLAB FOR PLUMBING
- WORK REMOVE MINI BLINDS AT ALL EXTERIOR WINDOWS; PATCH FASTENER
- HOLES, TYP. REMOVE GYPSUM BOARD AND PLASTER







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GENERAL DEMOLITION NOTES

- 1. REMOVE ALL MEPT SYSTEM COMPONENTS WITHIN AREAS OF THE WORK OF THIS CONTRACT THAT ARE NOTED AS ABANDONED OR TO BE ABANDONED BY THE WORK OF THIS CONTRACT.
- 2. REFER TO THE UNDERSLAB MEP PIPING PLANS FOR ADDITIONAL AREAS OF SAWCUTTING CONCRETE FLOORS FOR UNDERSLAB PIPING AND CONDUIT NOT SHOWN ON THE ARCHITECTURAL PLANS.
- 3. WHERE NEW OPENINGS ARE CUT INTO THE EXISTING BRICK VENEER AND/OR CMU, TOOTH-IN SOLID END BRICK OR CMU AT JAMBS. 4. REMOVE AND SALVAGE ALL VISUAL DISPLAY BOARDS INCLUDING MARKERBOARDS,
- CHALKBOARDS, TACKBOARDS, AND TACKSTRIPS ON WALLS TO BE REMOVED REFER TO MECHANICAL PLANS FOR LOCATIONS OF ADDITIONAL OPENINGS TO BE
- CUT IN EXISTING WALLS FOR NEW DUCTWORK AND PIPING. 6. CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE REUSED.
- 7. REMOVE CARPET THROUGHOUT WORK AREA; REMOVE ADHESIVE FROM SLAB COMPLETELY.
- 8. FOR AREAS OF SAW CUTTING AND PATCHING CONCRETE FLOORS FOR UNDERSLAB PIPING, REFER TO PIPING PLAN. 9. REPAIR AND PATCH WALLS AND CONCRETE FLOOR SLAB WHERE DAMAGED OR
- UNFINISHED RESULTING FROM REMOVAL OF CASEWORK, WALL, FIXTURES, OR ANY OTHER ITEMS REQUIRED TO BE REMOVED BY THIS CONTRACT. 10. WHERE REMOVAL OF ITEMS REQUIRED BY THIS CONTRACT, INCLUDING PLUMBING, MECHANICAL, ELECTRICAL, AND TELECOM ITEMS, LEAVES HOLES IN THE FLOORING, FLOOR SLAB, WALLS OR ROOF, THE CONTRACTOR SHALL PATCH ALL HOLES LEFT
- FROM REMOVAL OF THESE ITEMS TO MATCH ADJACENT ASSEMBLY AND FINISH. 11. WHEREVER DEMOLISHED WALLS ABUT WALLS TO REMAIN, PATCH AND FINISH TO MATCH ADJACENT SURFACE. INFILL WOOD TRIM. 12. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR SIZE OF NEW
- OPENINGS TO BE CUT IN EXISTING WALLS. 13. REMOVE THE EXISTING TILE AND GRID TO INSTALL NEW TILE AND GRID IN ALL AREAS INDICATED TO RECEIVE NEW CEILING TILE/GRID ON THE RCP AND/OR ROOM FINISH
- SCHEDULE. 14. REMOVE AND CATALOG ALL WOOD TRIM FROM WALLS TO REMAIN AND WALLS TO BE REMOVED, INCLUDING WOOD FRAMES AND CASINGS, WOOD BASEBOARDS AND SHOES, AND SILL/EDGE TRIM. PROTECT AND REINSTALL ALL TRIM. MINIMUM LENGTH OF REINSTALLED TRIM SHALL BE 6'-0".

DEMOLITION PLAN

SHEET NUMBER

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SHEET NAME

AD101.3

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PROJECT NO. 18.112

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PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

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A2 CLERK OF COURTS - RCP

A4 CLERK OF COURTS - FLOOR PLAN



INFILL/RECONSTRUCT HEADWALL/SOFFIT WITH FRAMING AND

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1. ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNLESS OTHERWISE NOTED. WALLS TO BE TYPE L4.3, UNLESS OTHERWISE NOTED.
 REPAIR AND PATCH CONCRETE FLOOR WHERE DAMAGED OR

GENERAL FLOOR PLAN NOTES

- UNFINISHED RESULTING FROM DEMOLITION WORK. 4. WHEREVER DEMOLITION OF WALLS, CEILINGS, FLOORS, CASEWORK, OR OTHER ITEMS RESULTS IN EXPOSED, UNFINISHED EDGES, PLANES, OR FACES OF ADJOINING WALLS, CEILINGS, FLOORS, ETC., THESE UNFINISHED ELEMENTS SHALL BE REPAIRED, PATCHED AND FINISHED WITH LIKE/COMPATIBLE MATERIALS AS REQUIRED TO MATCH ADJACENT SURFACE. UNLESS OTHERWISE NOTED IN THE DOCUMENTS. 5. WHERE REMOVAL OF ITEMS REQUIRED BY THIS CONTRACT, INCLUDING PLUMBING, MECHANICAL, ELECTRICAL, AND TELECOM ITEMS, LEAVES HOLES IN THE EXISTING WALLS, FLOORING, FLOOR SLAB, CEILINGS, AND/OR ROOF DECK, CONTRACTOR SHALL PATCH ALL HOLES LEFT FROM REMOVAL OF THESE ITEMS TO MATCH ADJACENT ASSEMBLY AND SURFACE PRIOR TO REFINISHING.
- EXTEND WALL FRAMING AND GYPSUM BOARD TO BOTTOM OF CONCRETE DECK ABOVE, UNLESS NOTED OTHERWISE. REINSTALL AND REFINISH ALL SALVAGED WOOD TRIM AT EXISTING AND NEW WALLS, INCLUDING WOOD DOOR FRAMES AND CASINGS, WOOD BASEBOARDS AND SHOES, CHAIR RAIL, AND SILL/LEDGE TRIM. INFILL TRIM AT ALL LOCATIONS WHERE WALLS HAVE BEEN REMOVED. MINIMUM LENGTH OF REINSTALLED TRIM SHALL BE 6'-0".

SHEET NUMBER A-101.3

SHEET NAME **FIRST LEVEL** FLOOR PLAN AND RCP

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D3 SECT DTL, TYP. 1 1/2" = 1'-0"



A4 CLERK OF COURTS - PLASTER CEILING RCP

GENERAL PLASTER CEILING NOTES

1. THIS PLAN SHOWS THE EXTENT OF EXISTING PLASTER AND METAL LATH CEILINGS. THE PLASTER CEILING IS A COMPONENT OF THE EXISTING 1-HR FIRE-RESISTIVE RATED FLOOR/CEILING ASSEMBLY. INFILL METAL LATH AND PLASTER TO ACHIEVE 1-HR FIRE-RESISTIVE RATING.

3. FIRESTOP ALL NEW PENETRATIONS TO ACHIEVE 1-HR FIRE-RESISTIVE RATING.

PLASTER KEYNOTES

KEYNOTE TEXT KEY EXISTING 1" CEMENTITIOUS PLASTER OVER METAL LATH P1 EXISTING STEEL BEAMS ABOVE PLASTER CEILING P2 APPROXIMATE AREA OF PLASTER AND LATH INFILL; REFER TO SPECIFICATION SECTION 09 2400 P3

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PROJECT NAME

COUNTY

COURTS

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

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ISSUE DATE

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JOHNSON COURTHOUSE **CLERK OF** RENOVATION

SHEET NUMBER

SHEET NAME FIRST LEVEL -PLASTER CEILING RCP

A-102.3

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D1 PARTIAL PLAN - SECOND LEVEL SOUTH



C1 PARTIAL CEILING PLAN - SECOND LEVEL NORTH















A3 CASHIER 012A/012B



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SHEET NUMBER A-401.3

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

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ENLARGED PLANS

PROJECT NO. 18.112

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SHEET NAME

OWNER

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PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

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B1 <u>1/4" = 1'-0"</u> CLERK'S OFFICE 012I - WEST B2 PRIVATE ROOM 012C - NORTH B2 1/4" = 1'-0"



C3 SUPERVISOR 012H - SOUTH

C4 SUPERVISOR 012H WEST

SCG SCG

09 2400; PLASTER AND LATH





INTERIOR **ELEVATIONS**

A-411.3

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SHEET NAME

A4 CLERK OF COURTS 012 - ADA COUNTER

06 2000; WD BASE

C1

A-501.3

-

- 09 2116; GYP BD

06 2000; WD TRIM



06 2000; WD TRIM - 08 8000; GLAZING





D2 PLAN DTL @ WINDOW JAMB



C1 PLAN DTL @ SERVICE COUNTER TRIM



INSTALL STACKED MARBLE BASE - 06 1000; WD BLOCKING - 06 2000; WD TRIM 07 9200; SEALANT REMOVE EXIST.
 MARBLE BASE REINSTALL SALVAGED WD BASE EXIST. WD BASE EXIST. PLASTER





B2 PLAN DTL @ DOOR JAMB, TYP.

















B3 SECT. DTL @ LINTEL





06 2000; WD TRIM

06 2000; WD TRIM

06 1000; WD BLOCKING

- EXIST. MASONRY

- EXIST. PLASTER

EXIST. GYP BD

06 1000; PLYWOOD

06 2000; VENEER PLYWOOD

07 9200; CAULK, TYP.





08 8000; GLAZING - 06 2000; WD TRIM - 06 1000; WD BLOCKING



D3 PLAN DTL @ CORNER JAMB

06 2000; WD TRIM - 06 1000; WD BLOCKING 08 8000; GLAZING



8'-8"

7'-10"

7'-4"

A4 SECT. DTL @ WALL DEMO

EXIST. MASONRY

- EXIST. CONC SLAB

- 03 3000; CIP CONC

3/4" THROUGH BOLT @ 12 O.C.

MAX, PROVIDE END BOLT 2" FROM ANGLE END, TYP., FILL VOIDS W/ 6,000 PSI NON-

LENGTH = OPENING WIDTH - 1 (1/2" CLEAR @ EA. END) WIDTH = MASONRY WALL THICKNESS, V.I.F.

SHRINK GROUT

3/8" CLOSURE PLATE

(2) L8X6X1/2 (LLV) W/ 12"

BÉARING ON EACH END

09 2116; 2'-1/2"

LIGHT GAUGE MTL STUD

09 2116; GYP BD

OPENING LENGTH 3'-8" V.I.F.

REPAIR EXIST. MASONRY @

REPLACE DAMAGED BRICKS

NEW CUTS, SALVAGE &

TUCKPOINT DAMAGED MORTAR JOINTS IN BRICK JAMBS (3) SIDES FOR "MIN,

BRG" ARÉA @ HEADER

NOTE: A36 STEEL FOR ANGLES & PLATES, PRIME

PAINT FINISH

FRAMING

COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

ISSUE DATE

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

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A-501.3

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SHEET NAME

DETAILS

SHEET NUMBER

PROJECT NAME JOHNSON

D4 PLAN DTL @ CASHIER WINDOW

1'-4" to 1'-8" FIELD VERIFY

- 06 1000; WD BLOCKING

O S / 0

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L1.X METAL STUD ASSEMBLIES W/ 1 LAYER GYP BD

Stud Assembly UL Design Mark Size Width Rating Comments L1.3 3 5/8" 4 1/4"

D1 L1.X WALL ASSEMBLY









FLOOR/CEILING STRUCTURE ABOVE L4.X METAL STUD ASSEMBLIES W/ 1 LAYER GYP BD EACH SIDE AND ACOUSTIC INSULATION Stud Assembly UL Design Width Rating Size Comments Mark L4.3 3 5/8" 4 7/8"





INSUL

09 2116; GYP BD

09 2116; ACOUSTIC BATT

09 2116; GYP BD

FINISH 09 0190; REFINISH EXIST. WINDOW SILL AND TRIM; **REPLACE WHERE** DAMAGED OR MISSING

D3 SECT. DTL @ FOUNDATION LEDGE

09 0190; EXIST. WALL RESTORE TO ORIGINAL













PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

ISSUE

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JOHNSON COUNTY

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DOOR PANEL TYPES





GLAZING TYPES:

= TRANSPARENT GLASS PG = PATTERNED GLASS

NOTES:
1. NEW DOOR SIZE SHALL FIT WITHIN REUSED FRAMES
2. IT IS THE DESIGN INTENT TO REUSE EXISTING WOOD DOOF
FRAMES AND CASINGS

0121	SUPERVISOR	3-0	7-0	Б	
0121	CLERK'S OFFICE	3'-0"	7'-0"	В	
012K	DEPARTMENT WEST	3'-0"	7'-0"	A	
012L	SUPERVISOR	3'-0"	7'-0"	A	
012M	CLERK'S OFFICE	3'-0"	7'-0"	A	
012N	TELECOM	3'-0"	7'-0"	A	

	DOOR SCHEDULE PROJECT 3														
		DOO	R SIZE		DOOR		FRA	ME							
No.	ROOM	WIDTH	HEIGHT	TYPE	MAT	GLAZE	TYPE	MAT	FIRE RATING	NOTES					
012	STOR.	3'-0"	7'-0"	В	WD	-	WD-1	WD							
012AA	WEST HALLWAY	4'-0"	7'-0"	В	WD	-	WD-1	WD		PAIR OF DRS					
012B	CASHIER	3'-0"	7'-0"	A	WD	TG	WD-1	WD							
012BB	WEST HALLWAY	4'-0"	7'-0"	В	WD	-	WD-1	WD		PAIR OF DRS					
012C	CASHIER	3'-0"	3'-0" 7'-0" E		WD	TG	WD-1 WD								
012D	PRIVATE ROOM	3'-0"	7'-0"	В	WD	TG	WD-1 WD								
012DD	PRIVATE ROOM	3'-0"	7'-0"	В	WD	PG	WD-1 WD								
012F	PUBLIC ROOM	3'-0"	7'-0"	В	WD	TG	WD-1 WD								
012FF	PUBLIC ROOM	3'-0"	7'-0"	В	WD	PG	WD-1	WD							
012G	DEPARTMENT EAST	3'-0"	7'-0"	A	WD	TG	WD-1	WD							
012H	SUPERVISOR	3'-0"	7'-0"	В	WD	TG	WD-1	WD							
0121	CLERK'S OFFICE	3'-0"	7'-0"	В	WD	PG	WD-1	WD							
012K	DEPARTMENT WEST	3'-0"	7'-0"	A	WD	TG	WD-1	WD							
012L	SUPERVISOR	3'-0"	7'-0" A		WD	TG	WD-1	WD							
012M	CLERK'S OFFICE	3'-0"	7'-0"	A	WD	PG	WD-1	WD							
012N	TELECOM	3'-0"	7'-0"	A	WD	-	WD-1	WD							

	ROOM FINISH SCHEDULE - CLERK OF COURTS														
	ROOM				WAL	LS									
No.	No. NAME		BASE	NORTH	SOUTH	EAST	WEST	NOTES							
012	STOR.	-	-	PNT-1	PNT-1	PNT-1	PNT-1								
012A	WEST HALLWAY	T-1, T-2, T-3	WD	PNT-1	PNT-1	PNT-1	PNT-1								
012B	CASHIER	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012C	CASHIER	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012D	PRIVATE ROOM	CPT-1	WD	PNT-3	PNT-3	PNT-3	PNT-3								
012E	EAST HALLWAY	T-1, T-2, T-3	WD	PNT-1	PNT-1	PNT-1	PNT-1								
012F	PUBLIC ROOM	CPT-1	WD	PNT-3	PNT-3	PNT-3	PNT-3								
012G	DEPARTMENT EAST	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012H	SUPERVISOR	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
0121	CLERK'S OFFICE	CPT-1	WD	PNT-3	PNT-3	PNT-3	PNT-3								
012J	MENTAL HEALTH	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012K	DEPARTMENT WEST	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012L	SUPERVISOR	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012M	CLERK'S OFFICE	CPT-1	WD	PNT-3	PNT-3	PNT-3	PNT-3								
012N	TELECOM	-	-	PNT-1	PNT-1	PNT-1	PNT-1	4							
0120	MENTAL HEALTH	CPT-1	WD	PNT-2	PNT-2	PNT-2	PNT-2								
012P	LOBBY	T-1,T-2,T-3	MARBLE	PNT-1	PNT-1	PNT-1	PNT-1	1,2,3							

SCG = SOUND CONTROL GLASS TRANSPARENT

ROOM FINISH SCHEDULE GENERAL NOTES:

ALL EXISTING WOOD TRIM SHALL BE REUSED, INCLUDING BASE, AND DOOR CASINGS; REFINISH REINSTALLED TRIM FOR UNIFORM APPEARANCE

SALVAGED MARBLE BASE SHALL BE REINSTALLED AND POLISHED

FILL AND PATCH ALL DENTS, AND OTHER IMPERFECTIONS IN EXISTING AND NEW GYPSUM BOARD AND PLASTER SURFACES PRIOR TO PAINTING

ROOM FINISH SCHEDULE SPECIFIC NOTES:

1. PAINT NEW AND EXISTING WALL, CEILING, AND SOFFIT SURFACES; ADD PLASTER FINISH ON NORTH WALL AND COLUMN, NORTH OF ELEVATOR

2. FABRICATE AND INSTALL SALVAGED MARBLE BASE ON NORTH WALL

3. POLISH EXISTING MARBLE BASE AND PLINTH BLOCKS AT THE PERIMETER OF LOBBY

	INTERIOR FINISHES													
KEY	MATERIAL	MANUF.	DESC.	COMMENTS										
PLAM-1	06 4100- PLASTIC LAMINATE	FENIX	J0748 BEIGE ARIZONA, COLORCORE	VERTICAL CASEWORK										
SSM-1	06 4100- SOLID SURFACE	FORMICA	744 CREMA TERRAZZO, 1/2" THICKNESS	COUNTERTOPS THROUGHOUT										
T-1	09 3000- TILE	DATILE	KEYSTON,E 1" HEXAGON, COLOR: ARTIC WHITE	FIELD TILE AND CENTER OF FLORAL ACCENT										
T-2	09 3000- TILE	DATILE	KEYSTON,E 1" HEXAGON, COLOR: EMERALD	FLORAL ACCENT										
Т-3	09 3000- TILE	DATILE	KEYSTONE, 1" HEXAGON, COLOR: BROWNBERRY	MATCH BORDER OF EXIST. TILE										
CPT-1	09 6813- CARPET TILE	SHAW CONTRACT	UNCOVER TILE 5T150, COLOR: PEWTER 50515, 9" X 36" PLANK, INSTALLATION: BRICK	LOCATIONS NOTED ON FINISH PLAN										
PNT-1	09 9000- PAINT	SHERWIN WILLIAMS	SW 7105 PAPER WHITE	VERIFY; MATCH 3B WALL COLOR										
PNT-2	09 9000- PAINT	SHERWIN WILLIAMS	SW 7637 OYSTER WHITE	GENERAL										
PNT-3	09 9000- PAINT	SHERWIN WILLIAMS	SW 7036 ACCESSIBLE BEIGE	AT LOCATIONS SCHEDULED										
SHD-1	12 2400- ROLLERSHADE	SWF CONTRACT	DOUBLE-TAKE T300, COLOR: BONE GREY, OPENNESS: 3%	WINDOW TREATMENT ALL THROUGHOUT										

A3 SECT DTL @ TILE/CPT TRANSITION



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PROJECT NAME

OWNER

ISSUE

DATE

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

DESCRIPTION

02.03.2022 BIDDING DOCUMEN

PROJECT NO. 18.112

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JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

DOOR AND FINISH

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SHEET NAME

SHEET NUMBER

SCHEDULE

A-601.3

MECHANICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT

SHEET METAL

	SQUARE CEILING DIFFUSER WITH ROUND NECK
	SQUARE CEILING RETURN AIR GRILLE
	SQUARE CEILING EXHAUST OR RELIEF AIR GRILLE
	LINEAR SLOT DIFFUSER
	FLOOR REGISTER OR GRILLE
-	SIDEWALL REGISTER OR GRILLE
8Ø +++++	FLEX DUCT WITH SIZE
18x12	DUCT SIZE: HORIZONTAL WIDTH x VERTICAL HEIGHT (NET OUTSIDE SHEET METAL DIMENSION)
	RECTANGULAR ELBOW WITH TURNING VANES
	CONCENTRIC DUCT REDUCER
	ECCENTRIC DUCT REDUCER
г — ¬ L _ J	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO REMAIN
	SUPPLY AIR DUCT SECTION UP OR TOWARDS
	RETURN AIR DUCT SECTION UP OR TOWARDS
	EXHAUST AIR DUCT SECTION UP OR TOWARDS
	OUTSIDE AIR DUCT SECTION UP OR TOWARDS
	SUPPLY AIR DUCT SECTION DOWN OR AWAY
	RETURN AIR DUCT SECTION DOWN OR AWAY
M	EXHAUST AIR DUCT SECTION DOWN OR AWAY
	OUTSIDE AIR DUCT SECTION DOWN OR AWAY
-√- - ??? ◆	DIRECTIONAL FLOW ARROW HORIZONTAL DAMPER FSD = FIRE/SMOKE DAMPER, FD = FIRE DAMPER, SD = SMOKE DAMPE CD = CONTROL DAMPER
L	VOLUME CONTROL DAMPER
-	GRILLE/DIFFUSER TAG WITH TYPE NUMBER AND CFM QUANTITY S = SUPPLY, R = RETURN, E = EXHAUST
-	GRILLE/DIFFUSER TAG WITH TYPE NUMBER AND CFM QUANTITY S = SUPPLY, R = RETURN, E = EXHAUST
VAV ?	VARIABLE AIR VOLUME (VAV) BOX WITH TYPE NUMBER
T	THERMOSTAT
(\mathbf{H})	HUMIDISTAT
R	DUCT RISE
	DUCT DROP
	FLEXIBLE DUCT CONNECTOR
	CONED TAKEOFF WITH DAMPER
A	AUTOMATIC MOTORIZED CONTROL DAMPER

<u>PLUMBING</u>

	DOMESTIC COLD WATER LINE - CW
	DOMESTIC HOT WATER LINE - HW
	DOMESTIC HOT WATER CIRCULATING LINE - HWC
——————————————————————————————————————	TEMPERED WATER LINE
SW	SOFT COLD WATER LINE
SW	SOFT HOT WATER LINE
SS	SANITARY SEWER LINE
GSS	GREASE SANITARY SEWER LINE
ST	STORM SEWER LINE
OFD	STORM SEWER OVERFLOW LINE
AW	ACID WASTE LINE BELOW FLOOR SLAB
V	PLUMBING VENT LINE
AV	ACID PLUMBING VENT LINE
CD	CONDENSATE DRAIN LINE
G	NATURAL GAS LINE
LP	LIQUEFIED PETROLEUM GAS LINE
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE
———— HG ————	REFRIGERANT HOT GAS BYPASS LINE
PD	PUMPED DISCHARGE LINE
WW	WELL WATER LINE
C.O. O	CLEANOUT IN FLOOR
C.O. II	CLEANOUT AT OR ABOVE CEILING
c.o. I⊢−O	CLEANOUT IN WALL
•	SHOWERHEAD
0	FLOOR DRAIN
\bigcirc	ROOF DRAIN
DIDING SDECIAL	TIES
I II ING JELUA	
O PIPE RISER	

HYDRONIC PIPING

———— HPS ————	HIGH
— — — HPR— — —	HIGH
MPS	MED
— — — MPR — — —	MED
LPS	LOW
— — — LPR — — —	LOW
PC	PUM
———— HWS ————	HEAT
— — —HWR— — —	HEAT
CHWS	CHIL
— — — CHWR— — —	CHIL
CWS	CHIL
— — —CWR— — —	CHIL
CDS	CON
— — — CDR— — —	CON
СТВ	COO
HPS	HEAT
— — — HPR— — —	HEAT
SMS	SNO\
— — — SMR— — —	SNO\
OF	OIL F
OS	OIL S
OR	OIL F
OG	OIL
OV	OIL \
WO	WAS
WOV	WAS

G-PIPE DROP PIPE CAP BFP BACKFLOW PREVENTER FLOAT & THERMOSTATIC TRAP STRAINER W/DRAIN VALVE v AIR VENT EXPANSION JOINT GLOBE VALVE BUTTERFLY VALVE BALL VALVE LUBRICATED PLUG VALVE GATE VALVE 3WAY CONTROL VALVE 2WAY CONTROL VALVE CALIBRATED BALANCE VALVE SWING CHECK VALVE BALANCING VALVE TRIPLE DUTY VALVE HB HOSE BIBB THERMOMETER TEMPERATURE WELL + P/T PORT CURB STOP

21-163 JOHNSON CO COURTHOUSE REMODEL

MISCELLANEOUS

EX ER

EXR

EXISTING LINE TO REMAIN

EXISTING LINE TO BE REMOVED

POINT OF NEW CONNECTION

EXISTING TO REMAIN

EXISTING TO BE REMOVED

EXISTING TO BE RELOCATED

H PRESSURE STEAM SUPPLY LINE (51-125 PSIG) PRESSURE CONDENSATE RETURN LINE IUM PRESSURE STEAM SUPPLY LINE (16-50 PSIG) IUM PRESSURE CONDENSATE RETURN LINE PRESSURE STEAM SUPPLY LINE (0-15 PSIG) PRESSURE CONDENSATE RETURN LINE IPED CONDENSATE RETURN LINE

- TING HOT WATER SUPPLY LINE TING HOT WATER RETURN LINE LED/HOT WATER SUPPLY LINE
- LED/HOT WATER RETURN LINE
- LED WATER SUPPLY LINE LED WATER RETURN LINE
- DENSER WATER SUPPLY LINE DENSER WATER RETURN LINE
- LING TOWER BLOWDOWN LINE T PUMP SUPPLY LINE
- T PUMP RETURN LINE W MELTING SYSTEM SUPPLY
- W MELTING SYSTEM RETURN
- FILL LINE SUCTION LINE
- RETURN LINE GAUGE LINE
- VENT LINE ASTE OIL LINE
- WASTE OIL VENT LINE

ELECTRICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT

WIRING DEVICES

- DUPLEX WALL RECEPTACLE
- DUPLEX WALL RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED

\Rightarrow DUPLEX TAMPER-RESISTANT RECEPTACLE

- $\underset{\mathsf{GFI}}{\longrightarrow} \mathsf{WP}$ duplex weatherproof ground fault circuit interrupter receptacle with cover
- \Rightarrow_U DUPLEX RECEPTACLE WITH USB CHARGER PORT
- \Rightarrow DUPLEX RECEPTACLE INSTALLED HORIZONTALLY
- \Rightarrow_{E} DUPLEX RECEPTACLE ON BACKUP POWER
- \oplus QUADRUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED
- DUPLEX CEILING RECEPTACLE
- J JUNCTION BOX

- DUPLEX WALL RECEPTACLE FOR 208V, VERIFY POWER NEEDS
- HAND DRYER (BY OTHERS)
- AUTOMATIC FAUCET/VALVE
- EPO EMERGENCY PUSH BUTTON (GENERATORS/BOILERS)
- H
 ADA PUSH BUTTON (BY OTHERS)

EQUIPMENT WIRING

- DISCONNECTING MEANS
- \square^{J} WP WEATHERPROOF DISCONNECTING MEANS
- F FUSED DISCONNECTING MEANS
- MS MOTOR STARTER SWITCH WITH RED RUN PILOT LIGHT
- VFD VARIABLE FREQUENCY DRIVE W/INTEGRAL DISCONNECT

SWITCHES - LOW VOLTAGE (DIGITAL) (REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORM

- W WALL SWITCH/STATION
- OCCUPANCY SENSOR WALL SWITCH
- CEILING MOUNT OCCUPANCY SENSOR
- DAYLIGHT PHOTOSENSOR
- PC EXTERIOR PHOTOCELL

SWITCHES - LINE VOLTAGE (120/277V) (REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION

- \$ SINGLE POLE
- DIMMING SWITCH
- S-
- SINGLE POLE KEYED SWITCH
- SK3 3-WAY KEYED SWITCH
- MOMENTARY LIGHT SWITCH
- S CEILING MOUNT OCCUPANCY SENSOR

DISTRIBUTION

- SURFACE-MOUNT PANEL
- TRANSFORMER
- C/T CABINET
- M METER

COMMUNICATIONS SYSTEMS

COUNTY DATA OUTLET IN WALLW/ # OF JACKS

- COUNTY DATA ABOVE COUNTER BACKSPLASH
- COUNTY DATA OUTLET IN CEILING
- $\triangleleft_{\rm W}$ State outlet for wall mounted telephone
- # STATE DATA OUTLET IN WALL W/ # OF JACKS STATE DATA OUTLET ABOVE COUNTER BACKSPLASH
- STATE DATA OUTLET IN CEILING
- COUNTY WIRELESS ACCESS POINT
- COMBINATION COUNTY/STATE OUTLET IN WALL 4 COMBINATION COUNTY/STATE OUTLET ABOVE COUNTER
- WALL HORN INDICATOR ⊢∕s
- CEILING SPEAKER
- [-EZ] EZ PASS WALL PENETRATION
- [#"] CONDUIT WALL PENETRATION

FIRE ALARM & DETECTION

- DUCT SMOKE DETECTOR SMOKE DETECTOR - CEILING MOUNTED SMOKE DETECTOR WITH SOUNDER BASE $\left\langle \downarrow \right\rangle_{r}$ HEAT DETECTOR - FIXED TEMPERATURE ⊢ F FIRE ALARM PULL STATION FIRE ALARM HORN/STROBE - WALL MOUNTED C FIRE ALARM HORN/STROBE - CEILING MOUNTED FIRE ALARM STROBE LIGHT - WALL MOUNTED FIRE ALARM STROBE LIGHT - CEILING MOUNTED R FIRE ALARM RELAY DH FIRE ALARM HOLD OPEN CONNECTION FIRE/SMOKE DAMPER CONNECTION FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL

ACCESS CONTROL

- DC DOOR CONTACT
- CR PROXIMITY CARD READER
- CM MULLION MOUNT CARD READER
- PB PUSHBUTTON (DOOR RELEASE)
- DB PANIC/DURESS BUTTON
- SECURITY CAMERA

- S PILOT LIGHT SWITCH
- OCCUPANCY SENSOR WALL SWITCH

3-WAY SWITCH 4-WAY SWITCH

- FLUSH-MOUNT PANEL

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<u>LUMINAIRES</u>

- 1'x4' RECESSED TROFFER FIXTURE W/TYPE NUMBER
- 2'x2' RECESSED TROFFER FIXTURE W/TYPE NUMBER 2'x4' RECESSED TROFFER FIXTURE W/TYPE NUMBER
- RECESSED LINEAR FIXTURE W/TYPE NUMBER 2'x2' SURFACE MOUNT TROFFER FIXTURE W/TYPE NUMBER
- 2'x4' SURFACE MOUNT TROFFER FIXTURE W/TYPE NUMBER
- SURFACE MOUNT LINEAR FIXTURE W/TYPE NUMBER WALL MOUNT LINEAR FIXTURE W/TYPE NUMBER
- SURFACE/CEILING MOUNT STRIP FIXTURE W/TYPE NUMBER
- SUSPENDED MOUNT STRIP FIXTURE W/TYPE NUMBER COVE LIGHT FIXTURE W/TYPE NUMBER
- SURFACE MOUNT FIXTURE W/TYPE NUMBER \bigcirc
- RECESSED DOWNLIGHT FIXTURE W/TYPE NUMBER \bigcirc
- PENDANT MOUNT FIXTURE W/TYPE NUMBER WALL MOUNT FIXTURE W/TYPE NUMBER
- □
 □
 □
 TRACK MOUNT FIXTURE W/TYPE NUMBER
- 0 INGROUND FIXTURE W/TYPE NUMBER
- POLE MOUNT FIXTURE W/TYPE NUMBER
- \Box GROUND MOUNT FLOOD LIGHT FIXTURE W/TYPE NUMBER TREE UPLIGHT FIXTURE W/TYPE NUMBER

EXIT & EMERGENCY

- SINGLE FACE CEILING MOUNTED EXIT SIGN W/ILLUMINATED FACE AND DIRECTION
- DOUBLE FACE CEILING MOUNTED EXIT SIGN W/ILLUMINATED FACE(S) AND DIRECTION INDICATED
- HX T WALL MOUNTED EXIT SIGN W/DIRECTION INDICATED
- EDGE MOUNTED EXIT SIGN W/ILLUMINATED FACE(S) AND DIRECTION INDICATED НX
- EMERGENCY BATTERY PACK
- ROUND CEILING MOUNT EMERGENCY LIGHT FIXTURE W/ TYPE AND CIRCUIT INDICATED ON PLANS (FULL SHADE)
- RECTANGULAR CEILING MOUNT EMERGENCY LIGHT FIXTURE W/ TYPE AND CIRCUIT INDICATED ON PLANS (FULL SHADE)

MISCELLANEOUS

- EX EXISTING TO REMAIN EXR EXISTING - TO BE RELOCATED
- ER EXISTING TO BE REMOVED CONDUIT
- ------ SWITCH-LEG IN CONDUIT
- EC EMPTY CONDUIT
- POINT OF NEW CONNECTION
- WP WEATHERPROOF AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISH GRADE
- WM DEVICE ON WIREMOLD
- WG WIRE GUARD [FS] FIRE STOP
- EZ PASS-THROUGH

PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

ISSUE

DATE	DESCRIPTION
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SHEET NAME **COVER SHEET**



SHEET INDEX

ME-001.3 COVER SHEET MECHANICAL DEMOLITION PLAN MD-101.3 M-101.3 HVAC PLAN M-201.3 PIPING PLAN MECHANICAL DETAILS M-501.3 M-601.3 MECHANICAL SCHEDULES FIRST LEVEL ELECTRICAL DEMOLITION PLAN ED-101.3 FIRST LEVEL ELECTRICAL PLAN E-101.3 SECOND LEVEL ELECTRICAL PLAN E-102.3 E-103.3 THIRD LEVEL ELECTRICAL PLAN E-104.3 ANNEX AND ATTIC ELECTRICAL PLANS E-301.3 ELECTRICAL ONE-LINE DIAGRAMS ELECTRICAL SCHEDULES E-601.3 ELECTRICAL SCHEDULES E-602.3 ELECTRICAL SCHEDULES E-603.3 ELECTRICAL SCHEDULES E-604.3 TD-101.3 FIRST LEVEL LOW VOLTAGE DEMOLITION PLAN TD-102.3 SECOND LEVEL LOW VOLTAGE DEMOLITION PLAN TD-103.3 THIRD LEVEL LOW VOLTAGE DEMOLITION PLAN T-101.3 FIRST LEVEL LOW VOLTAGE PLAN SECOND LEVEL LOW VOLTAGE PLAN T-102.3 T-103.3 THIRD LEVEL LOW VOLTAGE PLAN T-104.3 ATTIC LOW VOLTAGE PLAN T-501.3 LOW VOLTAGE DETAILS T-502.3 LOW VOLTAGE DETAILS

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TREVOR CONRAD ELECTRICAL ENGINEER ANDREW WEBER



EX 3/4" HW EX 1" CW-FROM BELOW RAISED FLOOR





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- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

<u>REFERENCED NOTES:</u> $\langle \# \rangle$

- REMOVE FCU OR PIPING ENCLOSURE. REMOVE ALL PIPING FROM WITHIN PIPING ENCLOSURE.
- REMOVE EXISTING DUCTWORK OR PIPING BACK TO THIS POINT AND PREPARE FOR NEW CONNECTION.
- REMOVE EXISTING VAV BOX AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS. FULLY REMOVE ASSOCIATED SUPPLY AND RETURN/EXHAUST DUCTWORK AND DIFFUSERS SERVING THIS SPACE.
- REMOVE EXISTING HEATING WATER PUMPS. REMOVE PIPING AS REQUIRED FOR INSTALLATION OF NEW PUMPS. REMOVE WIRING AND CONDUIT BACK TO ELECTRICAL PANEL.
- REMOVE AHU. REMOVE PIPING AND DUCTWORK AS SHOWN, REMOVE ALL PNEUMATIC CONTROLS. MODIFY EXISTING PAD/SUPPORTS AS REQUIRED FOR INSTALLATION OF NEW AHU.
- TAB CONTRACTOR TO VERIFY ASU AIRFLOW PRIOR TO ANY WORK TAKING PLACE. SUBMIT RESULTS TO DESIGN TEAM.
- TAB CONTRACTOR TO VERIFY AIRFLOW OF ALL REMAINING BRANCHES
- TAB CONTRACTOR TO VERIFY CHILLED AND HEATING WATER PUMP FLOW RATES PRIOR TO ANY WORK TAKING PLACE. SUBMIT RESULTS TO DESIGN

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS

RENOVATION

OWNER

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

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SHEET NAME MECHANICAL **DEMOLITION PLAN**







DCJ OFFICE (KEPROS) _____ SMALL COURTROOM 03C FD LOCATED AT CEILING-



N 2 LEVEL 3 MECHANICAL PLAN 1/8" = 1'-0"



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MENTAL HEALTH 0120

- LAYOUT AND ROUTING SHOWN IS DIAGRAMMATIC AND SCHEMATIC IN NATURE. NOT ALL OFFSETS MAY BE SHOWN. CONTRACTOR SHALL VERIFY EXACT ROUTING REQUIRED AND NUMBER OF OFFSETS AND TRANSITIONS.
- COORDINATE THERMOSTAT LOCATIONS WITH CASEWORK, WALL TYPES, AND FURNISHINGS PRIOR TO ROUGH-IN.
- COORDINATE SUPPLY, RETURN, AND EXHAUST GRILLE/DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ALL TRADES.
- COORDINATE DUCT ROUTING IN LOCATIONS WITH EXISTING CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ROUGH-IN.

<u>REFERENCED NOTES:</u> (#)

- COORDINATE ROUTING OF DUCTWORK WITH EXISTING UTILITEIS.
- MOUNT NEW FMS PANEL IN TELECOM 012N. COORDINATE POWER & DATA LOCATIONS WITH ELECTRICAL CONTRACTOR. MOUNT NEW FMS PANEL IN TELECOM 012N. COORDINATE POWER & DATA LOCATIONS WITH ELECTRICAL CONTRACTOR.
- COORDINATE ALL WORK IN THIS AREA WITH ELECTRICAL CONTRACTOR FOR PHASING OF ELECTRICAL SERVICE REWORK.

MEPT

PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

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SHEET NAME HVAC PLAN

SHEET NUMBER **M-101.3**



ANNEX - LOWER LEVEL MECHANICAL PIPING PLAN 1/8" = 1'-0"

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EX WH EX 1-1/4" CWR EX 1-1/4" CWS EX 1-1/4" HWR EX 1-1/4" HWS EX 4" SS UP 2" V UP ₩3/4" CW UP 🚽 1/2" HW UP 4. MENTAL HEALTH 012J EX 2" CWR EX 1" CWS EX 1-1/4" HWR EX 1" HWS 11. T HI EX WH

EX CHILLER (OUTDOORS)

 $\langle 3 \rangle$

GENERAL NOTES:

- LAYOUT AND ROUTING SHOWN IS DIAGRAMMATIC AND SCHEMATIC IN Α. NATURE. NOT ALL OFFSETS MAY BE SHOWN. CONTRACTOR SHALL VERIFY EXACT ROUTING REQUIRED AND NUMBER OF OFFSETS AND TRANSITIONS.
- MAINTAIN SERVICE CLEARANCE IN FRONT OF AND ABOVE ELECTRICAL В. EQUIPMENT AND ACCESS ZONES. REFER TO ELECTRICAL EQUIPMENT INSTALLATION AND INSTRUCTIONS. DO NOT INSTALL PIPING IN CLEARANCE SPACE OF ELECTRICAL OR MECHANICAL EQUIPMENT.
- COORDINATE ALL PIPING ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCES AND FLOW REQUIREMENTS.
- VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK. FIELD VERIFY ALL NEW AND EXISTING PIPE ROUTING WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN. MAKE NECESSARY OFFSETS AS REQUIRED.
- ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" COPPER WITH INSULATION UNLESS NOTED OTHERWISE.
- SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR FIXTURE CONNECTION SIZES.

REFERENCED NOTES: (#)

- CONTRACTOR SHALL MAKE LEAD/LAG CONTROLLER IN BOILERS FUNCTIONAL. COORDINATE WITH BOILER REPRESENTATIVE (CH MCGUINESS) TO PERFORM THIS WORK. COORDINATE WITH FMS CONTRACTOR TO CONNECT BOILERS TO FMS SYSTEM.
- INSTALL NEW PUMPS ON EXISTING PADS. MODIFY PADS AS REOUIRED. MODIFY AND EXTEND PIPING AS REQUIRED TO CONNECT TO PUMPS.
- PROVIDE INTEGRATION CARD FOR EXISTING CHILLER (CARRIER #30RB) FROM CHILLER MANUFACTURER. CHILLER IS CARRIER #30RB. MODIFY CHILLER CONTROLS TO PROVIDE FUNCTIONALITY SPECIFIED. REFER TO SPEC SECTION 23 0993 FOR ADDITIONAL INFORMATION.
- INSTALL PRESSURE SENSOR IN PNEUMATIC CONTROLS LINE. SENSOR PROVIDED BY FMS CONTRACTOR.
- INSTALL VFD ON EXISTING CHILLED WATER PUMPS. INSTALL SHAFT GROUNDING RINGS ON PUMP MOTORS. EXISTING PUMPS ARE 5 HP.
- INSTALL TEMPERATURE SENSORS IN THE CHILLED WATER SUPPLY AND RETURN PIPING. REFER TO SPEC SECTION 23 0993 FOR ADDITIONAL INFORMATION.
- INSTALL TEMPERATURE SENSORS IN THE HEATING WATER SUPPLY AND 7. 0993 FOR ADDITIONAL INFORMATION.
- RETURN PIPING ON THE SECONDARY PIPING. REFER TO SPEC SECTION 23
- 0993 FOR ADDITIONAL INFORMATION.

- 8.

VALVES UPSTREAM OF CONNECTIONS.

SYSTEM NEAR EX SOUTH AHU.

INFORMATION.

10

- 9.

INSTALL HEATING WATER DIFFERENTIAL PRESSURE SENSOR FOR FMS

INSTALL ELECTROMAGNETIC FLOW METER ON EX 4" CHILLED WATER

SUPPLY PIPING. REFER TO SPEC SECTION 23 0993 FOR ADDITIONAL

RETURN PIPING ON THE PRIMARY PIPING. REFER TO SPEC SECTION 23 INSTALL CHILLED WATER DIFFERENTIAL PRESSURE SENSOR AND BYPASS

INSTALL TEMPERATURE SENSORS IN THE HEATING WATER SUPPLY AND

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DATE DESCRIPTION 02.03.2022 BIDDING DOCUMENTS

PROJECT NO. 18.112

ISSUE

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

PROJECT NAME

SHEET NUMBER **M-201.3**

ARCHITECT OF RECORD Neumann Monson Architects

MINIMUN

1/4" MINIMUN

AUTOMATIC FLOW CONTROL VALVE SIZE FOR PUMP FLOW RATE

No Scale

1 45 BRANCH CONNECTION DETAIL No Scale

DUCT MAIN-

-QUADRANT LOCKING DAMPER

-SHEETMETAL CONNECTORS, INC.,

RETAINING ANGLES-

2 BASE MOUNTED PUMP DETAIL No Scale

6 FAN COIL (FCU) PIPING DETAIL No Scale

ARCHITECT OF RECORD

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 $\frac{R}{W} = 1.0$ a = W(0.364)

AUTOMATIC FLOW CONTROL VALVE

-BRANCH LINE DRAIN (TYP)

 \bigcirc S 0

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street

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SHEET NAME MECHANICAL DETAILS

16	
Version	
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	FAN COIL UNIT SCHEDULE																														
					FILT	ER			FAN				CHILLED WATER COIL							HOT WATER COIL								ELECT	RICAL		
UNIT TAG	MANUFACTURE	R MODEL	DIMENSIONS (LxWxH)	WEIGHT	DEPTH (IN)) MERV	CFM	ESP (IN)	MOTOR TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING DB/WB	LEAVING DB/WB	EWT/LWT	GPM	FLUID PD (FT)	ROWS	FLUID	TOTAL CAPACITY (MBH)	ENTERING DB	LEAVING DB	EWT/LWT	GPM	FLUID PD (FT)	ROWS	FLUID	MCA	моср	VOLTAGE/PHASE	CHILLED WATER SUPPLY/RETURN (IN)	HEATING WATER SUPPLY/RETRUN (IN)
FCU-00	EMI RETROAIRE	CAW_08A8	24x24x14	70	-	-	300	-	-	5.20	5.20	72.0/60.1	55.9/53.6	44.0/54.0	1.0	1.6	-	WATER	10.0	70.0	98.9	180.0/140.0	0.5	0.5	1	WATER	1.2	15	120/1	3/4	3/4
FCU-02	DAIKIN	FCHH202	17.3x30.5x12.4	56	1"	8	150	0.5	MODULATING ECM	4.19	3.43	72.0/61.0	51.1/51.0	44.0/54.0	1.0	0.34	4	WATER	5.9	68.0	104.5	180.0/139.6	0.5	0.27	1	WATER	3.1	5.6	120/1	3/4	3/4
FCU-04	DAIKIN	FCHH204	17.3x36.0x12.4	76	1"	8	300	0.5	MODULATING ECM	7.36	6.39	72.0/61.0	52.5/52.3	44.0/54.0	1.5	1.04	4	WATER	10.5	68.0	100.1	180.0/140.1	0.5	0.87	1	WATER	5.3	9.6	120/1	3/4	3/4
FCU-08	DAIKIN	FCHH208	17.3x53.0x12.4	114	1"	8	600	0.5	MODULATING ECM	15.72	12.91	72.0/61.0	52.3/51.7	44.0/54.0	3.0	5.50	4	WATER	20.0	68.0	98.6	180.0/140.0	1.0	3.75	1	WATER	5.3	9.6	120/1	3/4	3/4
FCU-12	DAIKIN	FCHH212	17.3x72.5x12.4	155	1"	8	1000	0.5	MODULATING ECM	28.29	22.17	72.0/61.0	51.7/50.9	44.0/54.0	6.0	9.74	4	WATER	34.4	68.0	99.5	180.0/140.0	1.5	13.32	1	WATER	10.6	13.8	120/1	3/4	3/4

NOTES: 1. FAN COIL UNITS ARE TAGGED AS: FCU-(NOMINAL CAPACITY)-(UNIQUE ID). 2. PROVIDE WITH FACTORY MOUNTED FUSED DISCONNECT. 3. UNITS SHALL BE PROVIDED WITH CONDENSATE OVERFLOW SWITCH. 4. PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO UNIT, FILTER, VALVES, AND CONTROLS. COORDINATE WITH ARCHITECT. 5. ALL UNITS SHALL BE PROVIDED WITH A CONDENSATE PUMP POWERED THROUGH THE UNIT.

	ENERGY RECOVERY VENTILATOR SCHEDULE																																						
				SUPPLY	FANS			EXHAUS	T FANS					ENERGY F	ECOVERY							CHILLED WA	FER COIL							HOT WAT	ER COIL				MAIN UNI	ELECTRICAL	E	LECTRIC PREHEAT COIL	-
											TOTAL EFFEC	TIVENESS %	b	SUMMER			WINTER			TOTAL								TOTACL						OUTSIDE					
						MOTOR				MOTOR			RETURN AIR	OUTSIDE AIR		RETURN AIR	OUTSIDE AIR			CAPACITY	ENTERING	LEAVING		FLUID	D			CAPACITY	ENTERING	LEAVING		FLUID	PD	RETURN A	R		CAPACITY		МОСР
UNIT TAG MA	NUFACTURE	R MODEL	CFM	ESP MOTOR H	BHP QU	UANTITY C	FM ESP	MOTOR H	IP BHP	QUANTITY	SUMMER	WINTER	EDB/EWB	EDB/EWB	LDB/LWB	EAT	EAT	LAT	UNIT TAG	(MBH)	DB/WB	DB/WB	EWT/LWT	GPM (FT)	ROWS	FLUID U	UNIT TAG	(MBH)	DB	DB	EWT/LWT	GPM (FT)	ROWS FL	JID FILTERS	VOLTAGE/PHAS	E MCA MOC	P (kW)	VOLTAGE/PHASE FL	_A (A)
ERV-1	OXYGEN-8	C40IN	4000	1.5 2.0 kW	2.9 kW	2 40	000 1.5	1.0 kW	2.8 kW	2	52.5	62.2	75.0/63.0	95.0/78.0	82.0/70.7	70.0	-12.0	41.5	CWC-1	235.4	82.0/70.7	51.9/51.8	44.0/54.0	47 17.4	5	WATER	HWC-1	142	41.5	75.1	180/150	10 8.0	1 WA	TER MERV8	208V/3PH	27.33 35	11.1	208V/3PH 30.	.8 40

NOTES:

1. PROVIDE ELECTRIC PREHEAT. 2. HOT WATER COIL SHALL BE PREHEAT. 3. CHILLED WATER COIL SHALL BE POST-COOLING.

UNIT TYPE MANUFAC S-1 SINK ELKA

UNIT TYPE MANU SF-1 SINK FAUCET I

	GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE													
UNIT TAG	MANUFACTURER	MODEL	MATERIAL	SYSTEM TYPE	NECK SIZE	FACE SIZE	MAX N.C.	NOTE						
S-1	PRICE	SPD	STEEL	SUPPLY	SEE PLANS	24"x24"	25							
S-2	PRICE	SDS	STEEL	SUPPLY	SEE PLANS	48"	25	LINEAR, 1" SLOT, (3) SLOT						
R-1	PRICE	80	STEEL	RETURN	SEE PLANS	24"x24"	25							
E-1	PRICE	SPD	STEEL	EXHAUST	SEE PLANS	24"x24"	25							
E-2	PRICE	530	STEEL	EXHAUST	SEE PLANS	12"x8"	25							

	INLINE PUMP SCHEDULE												
UNIT TAG	MANUFACTURER	MODEL	SYSTEM	FLOWRATE (GPM)	TOTAL HEAD (FT)	CONNECTION SIZE	MOTOR NOL HP	MOTOR HP	VOLTAGE/PHASE				
CP-1	TACO	1935	HOT WATER	50	25	2"	0.66	3/4	208V/3PH				

	BASE MOUNTED PUMP SCHEDULE												
UNIT TAG	MANUFACTURER	MODEL	SYSTEM	FLOWRATE (GPM)	TOTAL HEAD (FT)	CONNECTION SIZE	MOTOR NOL HP	MOTOR HP	VOLTAGE/PHASE				
HWP-1	TACO	CI2007	HOT WATER	125	50	2-1/2"x2"	2.9	3	208V/3PH				
HWP-2	TACO	CI2007	HOT WATER	125	50	2-1/2"x2"	2.9	3	208V/3PH				

	PLUMBING FIXTURE SCHEDULE											
ACTURER	ER MODEL MATERIAL COLOR ADA			ADA	FIXTURE DESCRIPTION	MISCELLANEOUS	TRIM	APPROVED EQUALS				
KAY	LR-1918	STAINLESS STEEL	STEEL SEE ARCH. 16"x11-1/2"x7-1/2" DEEP SINGLE BOWL, 304SS, 18 GA, SELF R		16"x11-1/2"x7-1/2" DEEP SINGLE BOWL, 304SS, 18 GA, SELF RIM, UNDERCOATED, 3 HOLES	COORDINATE WITH CASEWORK DIMENSIONS. SEE ARCHITECTURAL DRAWINGS.	SF-1	JUST, ENGINEER APPROVED EQUAL				
					PLUMBING FIXTURE TRIM SCHEDULE							
NUFACTURER	MODEL	COLOR			FIXTURE DESCRIPTION	MISCELLANEOUS		APPROVED EQUALS				
DELTA	26C3942	CHROME		6" RADIUS S	NIVEL GOOSENECK, 1.5 GPM, AERATOR, 8" CENTERSET, 4" WRIST BLADES	DEARBORN BRASS 16 GRID STRAINER, 17 GA 1-1/2" CHROME PLATED P-TRAP W/ CLEANOUT, 1/4 TURN	LOOSE KEY STOPS	ENGINEER APPROVED EQUAL				

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PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

JOHNSON COUNTY 913 South Dubuque Street Iowa City, Iowa 52240

PROJECT NO. 18.112

ISSUE

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SHEET NAME MECHANICAL SCHEDULES

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS Α. AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE В. REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS. C.
- EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING ³. D. REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING E. AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

ELECTRICAL DEMO REFERENCED NOTES: (#)

- (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET) REMOVE ALL LIGHTING, RECEPTACLES AND OTHER ELECTRICAL DEVICES UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE SCOPE OF REMODELING. REMOVE ASSOCIATED CONDUCTORS AND RACEWAY COMPLETELY.
- DISCONNECT POWER TO PUMP. PULL BACK CONDUCTORS AND RACEWAY TO NEAREST JUNCTION BOX, PROVIDE NEW AS NEEDED. PREPARE TO MODIFY/EXTEND CIRCUIT. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- EXISTING CIRCUITS TO REMAIN FROM SWITCHBOARD SHALL BE EXTENDED TO AND BACKFED FROM NEW MAIN DISTRIBUTION PANEL. PROVIDE SPLICE BOXES AS NEEDED. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS.
- PANEL SHALL BE BACKFED FROM NEW MDP LOCATION AND REMOVED AFTER CIRCUITS HAVE BEEN TRANSFERRED TO NEW PANEL. SEE NEW WORK PLAN AND ONE-LINE DIAGRAM FOR ADDITIONAL DETAILS. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS.
- LOCATION OF EXISTING STEEL BEAM RUNNING EAST/ WEST ABOVE CEILING. ALL ELECTRICAL RACEWAY AND BOXES SHALL BE REMOVED FROM BEAM AND BE REFED IF SERVING AREAS OUTSIDE OF PROJECT SCOPE.

5.

N 2 LEVEL 1 ELECTRICAL DEMOLITION PLAN - PHASE 2

SHEET NUMBER ED-101.3

SHEET NAME FIRST LEVEL ELECTRICAL **DEMOLITION PLAN**

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PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

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GENERAL POWER NOTES:

- COORDINATE ALL CHANNELING, CUTTING, AND PATCHING WITH GENERAL CONTRACTOR.
- ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE в MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.
- MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
- SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS. F.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% FILL.
- PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL Η. CASEWORK ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.
- IN ROOMS WHERE MULTIPLE COUNTER HEIGHTS EXIST, ALL ABOVE-COUNTER RECEPTACLE SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE FLOOR. COORDINATE WITH DESIGN TEAM DURING CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE TAMPER RESISTANT RECEPTACLES PER NEC 406.12 AND 517.18 (C).
- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING K PLANS FOR SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND RCP'S SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO ROUGH-IN. IF A DEVICE IS REQUIRED PER SPECIFICATION, REQUIRED FOR OPERATION, OR IS DIFFERENT IN CONFIGURATION THAN SHOWN ON ELEVATIONS AND RCP'S, CLARIFICATION AND DIRECTION MUST BE GIVEN BY THE ARCHITECT BEFORE ROUGH-IN. DEVIATIONS OR ADDITIONAL DEVICES NOT APPROVED PRIOR TO INSTALLATION SHALL BE CORRECTED AT CONTRACTORS EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO THERMOSTATS, CONTROL SYSTEM SENSORS, ELECTRICAL DEVICES, SWITCHES, DIMMERS, TECHNOLOGY DEVICES, A/V DEVICES, SPEAKERS, FIRE ALARM DEVICES, ETC.

TELECOM 012N

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MDP

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20V-1P/20/

1P2-6

REFERENCED POWER NOTES: (E#) (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

E1. DEVICE LOCATED IN FURNITURE. COORDINATE POWER WITH FURNITURE FEED LOCATION. CIRCUIT DEVICES AS SHOWN.

- PROVIDE 120V POWER TO MOTORIZED SHADES DRIVE-CONTROL. E2. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH SHADES PROVIDED. LOCATED SHADE CONTROL NEAR LIGHTING CONTROL IN ROOM. SHADES SHALL BE CONTROLLED IN GROUPS OF 2 AND 4 WITH ALL ADJACENT SHADES ON THE SAME WALL. REFER TO SPECIFICATIONS SECTION 12 2400 FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO SMOKE E3. CURTAIN CONTROL PANEL. ELECTRICAL CONTRACTOR SHALL WIRE PUSH BUTTON CONTROL STATION AND ALARM SIGNAL TO CONTROL PANEL. PUSH BUTTON SHALL BE LOCATED IN CASHIER STATION. COORDINATE LOCATION DURING CONSTRUCTION.
- TRANSFER ALL EXISTING CIRCUITS FROM BACKFED PANELS IN ROOM E4. TO NEW PANEL. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS. SEE DEMO PLAN FOR ADDITIONAL DETAILS.
- ELECTRICAL CONTRACTOR SHALL CHANNEL OUT EXISTING WALL TO E5. ROUTE POWER TO FURNITURE FEED. COORDINATE FEED LOCATION AND CHANNELING WITH FURNITURE.
- ELECTRICAL CONTRACTOR SHALL ROUTE POWER DOWN NEAR DOOR E6. ROUGH-IN AND CHANNEL HORIZONTALLY TO NORTH WALL. PROVIDE LEGRAND 2000 SERIES WIREMOLD FOR SURFACE MOUNT RACEWAY ON NORTH WALL. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON DOOR ROUGH-IN.
- F7. RACEWAY AND DEVICES IN ROOM SHALL BE SURFACE MOUNTED. COORDINATE EXACT DEVICE LOCATIONS WITH EQUIPMENT.
- LOCATION OF SMOKE CURTAIN CONTROL SWITCH. E8.
- ROUTE POWER FOR DEVICES IN THIS ROOM DOWN CHASE IN WOOD E9. BLOCKING AT THE DOOR. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
- E10. ELECTRICAL CONTRACTOR SHALL CHANNEL EXISTING WALL TO GET RACEWAY DOWN TO DEVICES.
- PROVIDE 120V POWER TO MOTORIZED SHADES DRIVE-CONTROL. E11. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH SHADES PROVIDED. LOCATED SHADE CONTROL NEAR LIGHTING CONTROL IN ROOM. SHADES SHALL BE CONTROLLED IN GROUPS OF 2 ALL ADJACENT SHADES ON THE SAME WALL. REFER TO SPECIFICATIONS SECTION 12 2400 FOR ADDITIONAL INFORMATION.
- E12. APPROXIMATE LOCATION OF UTILITY POWER POLE WHERE SECONDARY CONDUCTORS GO UNDERGROUND.

WOMEN'S RR

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LOCATION OF CONTRACTOR FURNISHED AND INSTALLED CT E13. CABINET. PROVIDE METER SOCKET PER UTILITIES REQUIREMENTS. REFER TO SHEET E-301.3 FOR ADDITIONAL INFORMATION.

SECURITY ENTRANCE

011

 $20V-1P/15A \rightarrow -012M$

/1P1-4

MEN'S RR

<u>INV-1</u> 120V-1P/20A

1P1-50

<u>SMOKE CURTAI</u> 20V-1P/20A

_ _ _ _ _ _ _ _

_ _ _ _ _ .

FCU 120V-1P/15A

EAST HALLW

012E

-1P1-7

1P1-38

120V-1P/15A

_1P1-42

1P1-43

1P1-25

E14. CONDUITS FROM UTILTIY POWER POLE TO NEW METER LOCATION SHALL BE BORED CONDUIT TYPE. BORING LOCATION IS SHOWN SCHEMATICALLY ONLY. COORDINATE LOCATION CLOSELY WITH EXISTING UNDERGROUND LINES.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

DESCRIPTION	DEVICES
LIGHTING CONTROL SHALL OPERATE AUTO ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH MANUAL OVERRIDE.	 SINGLE ZONE WALL SWITCH(ES) - ON/OFF DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF
LIGHTING CONTROL SHALL OPERATE MANUAL ON/MANUAL OFF.	SINGLE ZONE WALL SWITCH(ES) - ON/OFF
LIGHTING CONTROL SHALL OPERATE MANUAL ON/MANUAL OFF VIA DIMMING CONTROL(S).	SINGLE ZONE WALL SWITCH(ES) - DIMMING
LIGHTING CONTROL SHALL OPERATE MANUAL ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH DIMMING CONTROL(S).	 SINGLE ZONE WALL SWITCH(ES) - ON/OFF/DIMMING DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF
ZONE A SHALL OPERATE MANUAL ON/ MANUAL OFF WITH DIMMING CONTROLS. ZONE B SHALL OPERATE AUTO ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH DIMMING CONTROL AND MANUAL OVERRIDE.	MULTI ZONE WALL STATION(S) - ON/OFF/DIMMING DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF
	DESCRIPTION LIGHTING CONTROL SHALL OPERATE AUTO ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH MANUAL OVERRIDE. LIGHTING CONTROL SHALL OPERATE MANUAL ON/MANUAL OFF. LIGHTING CONTROL SHALL OPERATE MANUAL ON/MANUAL OFF VIA DIMMING CONTROL(S). LIGHTING CONTROL SHALL OPERATE MANUAL ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH DIMMING CONTROL SHALL OPERATE MANUAL ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH DIMMING CONTROL(S). ZONE A SHALL OPERATE MANUAL ON/ MANUAL OFF WITH DIMMING CONTROLS. ZONE B SHALL OPERATE AUTO ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WITH DIMMING CONTROL AND MANUAL OVERRIDE.

REFER TO SPECIFICATION 26 0943 FOR FURTHER INFORMATION. OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR A 30 MINUTE TIME DELAY.

- D.

- L1.
- 13.

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C

ELECTRICAL PLAN

E-101.3

FIRST LEVEL

SHEET NAME

SHEET NUMBER

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DESCRIPTION

02.03.2022 BIDDING DOCUMENTS

PROJECT NO. 18.112 ISSUE

DATE

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

OWNER

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

PROJECT NAME

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS Α. AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE Β.
- DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- C. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING D. REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING F. AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

ELECTRICAL DEMO REFERENCED NOTES: (#)

D1.

PANEL SHALL BE BACKFED FROM NEW MDP LOCATION AND REMOVED AFTER CIRCUITS HAVE BEEN TRANSFERRED TO NEW PANEL. PULL BACK CIRCUITS TO NEAREST JUNCTION BOXES AND EXTEND TO NEW PANEL LOCATION. PROVIDE SPLICE BOXES AS NEEDED. SEE NEW WORK PLAN AND ONE-LINE DIAGRAM FOR ADDITIONAL DETAILS. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS.

N 2 LEVEL 2 ELECTRICAL DEMOLITION PLAN

GENERAL POWER NOTES:

- ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE Α. MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.
- MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & В. ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
- C. SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS. D. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE
- SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER. PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING F. ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% FILL.
- PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL G. CASEWORK ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

REFERENCED POWER NOTES: (#) (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

- TRANSFER ALL EXISTING CIRCUITS FROM BACKFED PANELS IN ROOM E1. TO NEW PANEL. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS. SEE DEMO PLAN FOR ADDITIONAL DETAILS. TRANSFER CIRCUITS FEEDING NORTH TO PANEL 1 IN ROOM AND CIRCUITS FEEDING SOUTH TO PANEL 2 IN ROOM. MODIFY AND EXTEND EXISTING CIRCUIT TO WIRE TO VFD. EXTEND E2. CIRCUIT FROM VFD TO PUMP LOCATION.
- MODIFY POWER TO EACH EXISTING BOILER PRIMARY PUMP. E3. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND FMS CONTRACTOR.

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CONSULTANTS

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MEPT 118 East College St lowa City, lowa 52240 319.248.4600

PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

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SHEET NAME SECOND LEVEL ELECTRICAL PLAN

SHEET NUMBER E-102.3

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS D1. Α. AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE В. DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS. C.
- EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING D. REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING Ε. AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

ELECTRICAL DEMO REFERENCED NOTES: (#)

PANEL SHALL BE BACKFED FROM NEW MDP LOCATION AND REMOVED AFTER CIRCUITS HAVE BEEN TRANSFERRED TO NEW PANEL. PULL BACK CIRCUITS TO NEAREST JUNCTION BOXES AND EXTEND TO NEW PANEL LOCATION. PROVIDE SPLICE BOXES AS NEEDED. SEE NEW WORK PLAN AND ONE-LINE DIAGRAM FOR ADDITIONAL DETAILS. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS.

GENERAL POWER NOTES:

ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.

- MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
- SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS C. WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS. D.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING F ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% FILL.
- PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL CASEWORK ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

<u>REFERENCED POWER NOTES:</u> (#) (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

- TRANSFER ALL EXISTING CIRCUITS FROM BACKFED PANELS IN ROOM E1. TO NEW PANEL. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS. SEE DEMO PLAN FOR ADDITIONAL DETAILS. TRANSFER CIRCUITS FEEDING NORTH TO PANEL 1 IN ROOM AND CIRCUITS FEEDING SOUTH TO PANEL 2 IN ROOM. MODIFY AND EXTEND EXISTING CIRCUIT TO WIRE TO VFD. EXTEND E2. CIRCUIT FROM VFD TO PUMP LOCATION.
- MODIFY POWER TO EACH EXISTING BOILER PRIMARY PUMP. F3. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND FMS CONTRACTOR.

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COUNTY **CLERK OF** COURTS RENOVATION

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

DESCRIPTION

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02.03.2022 BIDDING DOCUMENTS

PROJECT NO. 18.112

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PROJECT NAME

OWNER

ISSUE DATE

JOHNSON COURTHOUSE

SHEET NUMBER

SHEET NAME

THIRD LEVEL

ELECTRICAL PLAN

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD Α. VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE B. D2. DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING D. REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

ELECTRICAL DEMO REFERENCED NOTES: (#)

- (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET) DISCONNECT POWER FROM ASU. REMOVE ALL ASSOCIATED DISCONNECTS, D1. RACEWAY, AND CONDUCTORS BACK TO PANEL. BREAKER SHALL REMAIN IN PANEL AS SPARE.
 - DISCONNECT POWER FROM EXHAUST FAN. REMOVE ALL ASSOCIATED DISCONNECTS, RACEWAY, AND CONDUCTORS BACK TO PANEL. BREAKER SHALL REMAIN IN PANEL AS SPARE.

ATTIC ELECTRICAL DEMOLITION PLAN 1/8" = 1'-0"

N 2 ANNEX - LOWER LEVEL ELECTRICAL DEMOLITION PLAN 1/8" = 1'-0"

GENERAL POWER NOTES:

- ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE Α. EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.
- MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & Β. ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
- SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- D. ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE E. SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- F PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% FILL.
- PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL G. CASEWORK ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

HAC TH ₫___#

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· ++ -- ++

(# - - #i

- - # 4 - -

N 3 ATTIC ELECTRICAL PLAN 1/8" = 1'-0"

REFERENCED POWER NOTES: (#)

TRANSFER ALL EXISTING CIRCUITS FROM BACKFED PANELS IN ROOM TO NEW PANEL. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS. SEE DEMO PLAN FOR ADDITIONAL DETAILS. TRANSFER CIRCUITS FEEDING NORTH TO PANEL 1 IN ROOM AND CIRCUITS FEEDING SOUTH TO

MODIFY AND EXTEND EXISTING CIRCUIT TO WIRE TO VFD. EXTEND CIRCUIT FROM VFD TO PUMP LOCATION.

MODIFY POWER TO EACH EXISTING BOILER PRIMARY PUMP. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND FMS CONTRACTOR.

> <u>CP-1</u> 208V-3P/20A 3P2-2,4,6

> > <u>ERV-1</u> 208V-3P/35A

3P2-7,9,11

PREHEAT COIL 208V-3P/40A 3P2-1,3,5

ERV-1-012BB

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PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street

PROJECT NO. 18.112

lowa City, lowa 52240

ISSUE

DATE	DESCRIPTION
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SHEET NAME **ANNEX AND ATTIC** ELECTRICAL PLANS

SHEET NUMBER

EX CHILLER (OUTDOORS)

GENERAL DEMOLITION NOTES:

- ELECTRICAL POWER OUTAGES, IF REQUIRED, SHOULD BE Α. STRATEGICALLY MINIMIZED AND SCHEDULED CLOSELY WITH OWNER. CHANGEOVERS COULD BE REQUIRED TO OCCUR AT ANY HOUR.
- MAINTAIN ALL SERVICE CLEARANCES REQUIRED BY THE UTILITY AND В. NEC. COORDINATE INSTALLATION WITH UTILITY REQUIREMENTS PRIOR TO ROUGH-IN.
- C. UTILITY CONTACT: MIDAMERICAN ENERY
- D. ELECTRICAL OUTAGES SHALL BE STRATEGICALLY MINIMIZED AND SCHEDULED CLOSELY WITH OWNER.

REFERENCED NOTES:

- DEMOLISH EXISTING SERVICE ENTRANCE CABLES BACK TO UTILITY D1. POWER POLE. PROVIDE A PULLBOX IN ORDER TO SPLICE CONDUCTORS AND CONDUIT AS NEEDED. COORDINATE LOCAL UTILITY. SEE NEW ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL DETAILS. MINIMIZE AND COORDINATE ALL REQUIRED DOWNTIME WITH OWNER.
- REMOVE EXISTING CT CABINET AND METER SOCKET. COORDINATE D2. REMOVAL OF METER WITH LOCAL UTILITY. FOLLOW ALL LOCAL UTILITY REQUIREMENTS AND CODES.
- D3. PROVIDE A JUNCTION BOX IN ORDER TO SPLICE CONDUIT AS NEEDED. PREPARE TO EXTEND CIRCUIT TO NEW MDP LOCATION. CONDUCTORS AND CONDUIT MAY BE REUSED WHERE IN GOOD CONDITION AND SIZED APPROPRIATELY. ALL CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS.
- DO NOT REMOVE PANEL UNTIL EXISTING LOADS TO REMAIN HAVE D4. BEEN TRANSFERRED TO NEW PANEL(S). SEE NEW ONE-LINE FOR ADDITIONAL DETAILS.

1 ELECTRICAL ONE-LINE DIAGRAM - EXISTING No Scale

GENERAL NOTES:

DEVICES AND EQUIPMENT IN THIS DETAIL MAY NOT REFLECT HEIGHT REQUIREMENTS OF ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES). ADJUST HEIGHTS TO MEET ADAAG WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS.

GENERAL NOTES:

- ELECTRICAL POWER OUTAGES, IF REQUIRED, SHOULD BE STRATEGICALLY MINIMIZED AND SCHEDULED CLOSELY WITH OWNER. CHANGEOVERS COULD BE REQUIRED TO OCCUR AT ANY HOUR.
- MAINTAIN ALL SERVICE CLEARANCES REQUIRED BY THE UTILITY AND В. NEC. COORDINATE INSTALLATION WITH UTILITY REQUIREMENTS PRIOR TO ROUGH-IN.
- UTILITY CONTACT: MIDAMERICAN ENERGY C.
- D. REFER TO SITE PLAN ON SHEET ME-XXX FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.
- HARDER ALUMINUM WITH 90 DEGREE RATING IS ACCEPTABLE FOR E. USE WHERE INDICATED IN THE CONDUCTOR AND CONDUIT SIZING CHART
- INSTALL ALL CONDUCTORS AS PER MANUFACTURER'S F. RECOMMENDATIONS.
- G. ELECTRICAL SERVICE ENTRANCE LAYOUT MAY VARY FROM WHAT IS SHOWN ON PLANS BASED ON MANUFACTURER PROVIDING THE SYSTEM. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FITTING SYSTEM PROVIDED IN THE SPACE SHOWN ON PLANS.
- EXTERNAL MOUNTED SURGE PROTECTION DEVICES SHALL BE Н. INSTALLED PER MANUFACTURER'S GUIDELINES. MINIMIZE DISTANCE FROM EQUIPMENT.

REFERENCED NOTES: (#)

- REFER TO SCHEDULES FOR ADDITIONAL BREAKERS AND PANEL INFORMATION.
- EXTEND EXISTING CIRCUIT TO NEW MDP LOCATION. TEMPORARILY BACKFEED EXISTING PANELS FROM NEW MDP UNTIL NEW PANELS ARE INSTALLED AND LOADS CAN BE TRANSFERRED. ALL

NEW MDP

800A, 120/208V, 3P, 4W

3. CHANGEOVERS AND DOWNTIME SHALL BE MINIMIZED AND OCCUR AFTER HOURS OR ON WEEKENDS.

- EX BOILER HOUSE PANEL - **- - - - - - -** - ,__ ER W. 2ND FLOOR PANEL ER E. 2ND FLOOR PANEL
- ER 1ST FLOOR PANEL
- - **F----**
 - EX ELEVATOR

COND SIZIN	UCTOR ANI G CHART) cond	UIT
	CONDUC	TORS (THW	N-2)

	CONDUC	TORS (THW	N-2)	CON	DUIT	PARALLEL	
	PHASE	NEUTRAL	GROUND	EMT	SCH 40	RUNS	
15/3	(3) #12 AWG	-	#12 AWG	3/4"	3/4"	1	
20/3	(3) #12 AWG	-	#12 AWG	3/4"	3/4"	1	
25/3	(3) #10 AWG	-	#10 AWG	3/4"	3/4"	1	
30/3	(3) #10 AWG	-	#10 AWG	3/4"	3/4"	1	
35/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1	
40/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1	
45/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1	
50/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1	
60/3	(3) #6 AWG	-	#10 AWG	3/4"	3/4"	1	
70/3	(3) #4 AWG	-	#8 AWG	1"	1"	1	
80/3	(3) #4 AWG	-	#8 AWG	1"	1"	1	
90/3	(3) #3 AWG	-	#8 AWG	1-1/4"	1-1/4"	1	
100/3	(3) #3 AWG	-	#8 AWG	1-1/4"	1-1/4"	1	
110/3	(3) #2 AWG	-	#6 AWG	1-1/4"	1-1/4"	1	
125/3	(3) #1 AWG	-	#6 AWG	1-1/4"	1-1/4"	1	
150/3	(3) 1/0 AWG	-	#6 AWG	1-1/2"	1-1/2"	1	
175/3	(3) 2/0 AWG	-	#6 AWG	2"	2"	1	
200/3	(3) 3/0 AWG	-	#6 AWG	2"	2"	1	
225/3	(3) 4/0 AWG	-	#4 AWG	2"	2"	1	
		1	1	1	1	1	

CONDUCTOR AND CONDUIT SIZING CHART

	CONDUC	CTORS (THW	N-2)	CON
	PHASE	NEUTRAL	GROUND	EMT
15/4	(3) #12 AWG	#12 AWG	#12 AWG	3/4"
20/4	(3) #12 AWG	#12 AWG	#12 AWG	3/4"
25/4	(3) #10 AWG	#10 AWG	#10 AWG	3/4"
30/4	(3) #10 AWG	#10 AWG	#10 AWG	3/4"
35/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"
40/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"
45/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"
50/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"
60/4	(3) #6 AWG	#6 AWG	#10 AWG	1"
70/4	(3) #4 AWG	#4 AWG	#8 AWG	1-1/4"
80/4	(3) #4 AWG	#4 AWG	#8 AWG	1-1/4"
90/4	(3) #3 AWG	#3 AWG	#8 AWG	1-1/4"
100/4	(3) #3 AWG	#3 AWG	#8 AWG	1-1/4"
110/4	(3) #2 AWG	#2 AWG	#6 AWG	1-1/4"
125/4	(3) #1 AWG	#1 AWG	#6 AWG	1-1/2"
150/4	(3) 1/0 AWG	1/0 AWG	#6 AWG	2"
175/4	(3) 2/0 AWG	2/0 AWG	#6 AWG	2"
200/4	(3) 3/0 AWG	3/0 AWG	#6 AWG	2"
225/4	(3) 4/0 AWG	4/0 AWG	#4 AWG	2-1/2"

2 ELECTRICAL ONE-LINE DIAGRAM - NEW No Scale

ARCHITECT OF RECORD

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SERVICE ENTRANCE CONDUCTOR AND CONDUIT SIZING CHART

		CONDUC	TORS (THWI	N-2)	CON	DUIT	PARALLEL
		PHASE	NEUTRAL	GROUND	RMC	SCH 40	RUNS
800)/N	(3) 600 MCM	600 MCM	-	3-1/2"	4"	2

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

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SHEET NAME ELECTRICAL **ONE-LINE** DIAGRAMS

E-301.3

NDUIT PARALLEL SCH 40 RUNS 3/4" 1 3/4" 1 3/4" 1 3/4" 1 3/4" 1 3/4" 1 3/4" 1 3/4" 1 1" 1 1-1/4" 1 1-1/4" 1 1-1/4" 1 1-1/4" 1 1-1/4" 1 1-1/2" 1 2" 1 2" 1 2" 1

2-1/2" 1

			LIGHTING FIXTURE SCHEDULE							
ТҮРЕ	BOD MANUFACTURER	MODEL NUMBER	DESCRIPTION	MOUNTING	CONTROL	LED/CCT/CRI	DELIVERED LUMENS	WATTAGE	VOLTAGE	APPROVED EQUALS
DA	PRESCOLITE	LTR-4RD-H-ML-20L-DM1-LTR-4RD-ML-35K-8-WD-SS-WT	4" RECESSED LED DOWNLIGHT. WIDE, 59 DEG BEAM DISTRIBUTION. SEMI-SPECULAR REFLECTOR FINISH. WHITE FLANGE.	CEILING-RECESSED	0-10V	LED/3500K/80	2059	22.5	UNV	LITHONIA, HALO
DB	PRESCOLITE	LTR-3RD-H-SL-06L-DM1-LTR-3RD-T-SL-35K-8-MD-SS-WT	3" RECESSED LED RDOWNLIGHT. MEDIUM, 53 DEG BEAM DISTRIBUTION. SEMI-SPECULAR REFLECTOR FINISH. WHITE FLANGE.	CEILNG-RECESSED.	0-10V	LED/3500K/80	744	7.8	UNV	LITHONIA, HALO
EA	DUAL LITE	LEC-D-R-N-E	EMERGENCY EDGE-LIT LED EXIT SIGN. DOUBLE FACE, RED LETTERS. SATIN ALUMINUM FINISH.	CEILING	N/A	LED/RED	N/A	4.5	UNV	LITHONIA, LIGHTALARMS, EMERGI-LITE
EB	DUAL LITE	PGW	EMERGENCY ARCHITECTURAL LED WALL PACK. WHITE FINISH.	WALL	N/A	LED	405	2.8	UNV	ENGINEER APPROVED
FA	WILLIAMS	76R-4-L30-835-DIM-UNV	INDUSTRIAL ROUND STRIP FIXTURE. PROVIDE ACCESSORIES REQUIRED FOR COMPLETE AND FUNCTIONAL SURFACE MOUNT INSTALLATION.	SURFACE-CEILING	NONE	LED/3500K	3067	20	UNV	COLUMBIA, METALUX, LITHONIA, DAY-BRITE
PA	OCL	SC1-P1AA-14-WG-ORB-LED1-35K-UNV-21"-DM1	SCHOOLHOUSE PENDANT. 21" OVERALL FIXTURE HEIGHT. OIL RUBBED BRONZED FINISH. WHITE GLASS DIFFUSER.	PENDANT	0-10V	LED/3500K	1480	20	UNV	SCOTT ARCHITECTURAL, BASELIGHT
RA	COLUMBIA	LCAT22-35-HLG-ED-U	2X2 LED RECESSED ARCHITECTURAL TROFFER. ROUND FROSTED CENTER DIFFUSER.	CEILING - GRID	0-10V	LED/3500K/80	4239	33	UNV	FINELITE, LITHONIA, METALUX
RB	COLUMBIA	LCAT22-35-MLG-EDU	2X2 LED RECESSED ARCHITECTURAL TROFFER. ROUND FROSTED CENTER DIFFUSER.	CEILING- GRID	0-10V	LED/3500K/80	3494	26	UNV	FINELITE, LITHONIA, METALUX
UA	AIREY-THOMPSON	13L-N-35K-18-2-0-SWD	18" LED UNDERCABINET LIGHT. FROSTED LENS. SATIN FINISH. ON/OFF ROCKER SWITCH.	UNDERCABINET	NON	LED/3500K	800	7	UNV	LITHONIA, METALUX

NOTES:

- 1. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- CONTRACTOR SHALL INSTALL ALL FIXTURES PER MANUFACTURER 2.
- RECOMMENDATIONS IN LOCATIONS SHOWN ON DRAWINGS.
- AND ARCHITECT PRIOR TO ROUGH-IN.
- 4. ARCHITECT SHALL SELECT ALL FINISH/COLORS AT TIME OF SUBMITTAL.
- 5. COORDINATE ALL DRIVER WITH CONTROLS FOR COMPATIBILITY.
- VERIFY ALL FINAL CEILING TYPES AND MOUNTING CONFIGURATIONS PRIOR TO RELEASE OF FIXTURES. 6.

LIGHT FIXTURE SCHEDULE BY: ANDREW WEBER, AWEBER@MODUS-ENG.COM, (319) 248-4605.

	BRANCH 1F	י1					Valta	400/000 \	A.L				Detin			
	Location: Supply From: MDF Mounting: Surf: Enclosure: Type	o ace e 1					Volts: Phases: Wires:	120/208 \ 3 4	Vye		:	S.C.C.R Mai Mains MCE	8. Rating ns Type s Rating 3 Rating	g: 10,000 A e: MCB g: 400 A g: 400 A		
	Available Isc:												SPI	D: NONF		
Notes:	Available 190.												011	. NONE		
						^		B		<u> </u>						
скт	Circuit Description Ty	ype 1	Trip	Poles		`					Poles	Trip	Туре	Circuit D	escription	СКТ
1P1-1	CLERK'S OFFICE WEST	2	20 A	1	900	900					1	20 A		DEPARTMEN	IT WEST	1P1-2
1P1-3	DEPARTMENT WEST	2	20 A	1			1080	720			1	20 A		DEPARTMEN	IT WEST	1P1-4
1P1-5	SUPERVISOR WEST	2	20 A	1					900	900	1	20 A		CLERK'S OF	FICE EAST	1P1-6
1P1-7	DEPARTMENT EAST	2	20 A	1	900	720	-				1	20 A		DEPARTMEN	IT EAST	1P1-8
1P1-9	PRIVATE ROOM	2	20 A	1			720	180			1	20 A	G	REFRIGERA	TOR	1P1-10
1P1-11	MICROWAVE	2	20 A	1					180	180	1	20 A		COFFEE MA	KER	1P1-12
1P1-13	PRINTER	2	20 A	1	360	360					1	20 A		PRINTER		1P1-14
1P1-15	MENTAL HEALTH WEST	2	20 A	1			720	720			1	20 A		MENTAL HEA	ALTH EAST	1P1-16
1P1-17	PUBLIC ROOM	2	20 A	1					360	1260	1	20 A		PUBLIC ROC	M	1P1-18
1P1-19	CASHIER EAST	2	20 A	1	540	540					1	20 A		CASHIER WE	ST	1P1-20
1P1-21	CASHIER WEST	2	20 A	1			360	360			1	20 A		CASHIER EA	ST	1P1-22
1P1-23	DEPARTMENT EAST	2	20 A	1					1080	900	1	20 A		SUPERVISO	R EAST	1P1-24
1P1-25	LOBBY	2	20 A	1	540	1268					1	20 A		Lighting		1P1-26
1P1-27	Lighting	2	20 A	1			1054	40			1	20 A		Lighting		1P1-28
1P1-29	PRINTER - WEST	2	20 A	1					360	360	1	20 A		PRINTER - W	'EST	1P1-30
1P1-31	PRINTER - M. HEALTH	2	20 A	1	360	360					1	20 A		PRINTER - M	. HEALTH	1P1-32
1P1-33	PRINTER - EAST	2	20 A	1			360	360			1	20 A		PRINTER - E	AST	1P1-34
1P1-35	FCU	1	15 A	1					0	0	1	15 A		FCU		1P1-36
1P1-37	FCU	1	15 A	1	0	0					1	15 A		FCU		1P1-38
1P1-39	FCU	1	15 A	1		-	0	0			1	15 A		FCU		1P1-40
1P1-41	FCU	1	15 A	1			-	-	0	0	1	15 A		FCU		1P1-42
1P1-43	SMOKE CURTAIN	2	20 A	1	0	0					1	15 A		FCU		1P1-44
1P1-45	MOTORIZED SHADES	2	20 A	1			0	0			1	20 A		MOTORIZED	SHADES	1P1-46
1P1_47											· ·	2071				1P1_48
1P1-49	SMOKE DAMPERS	2	20 A	1	0	0					1	20 A		INV-1		1P1-50
1P1-51			20 A	1	<u> </u>	0	0	0			1	20 A		SPARE		1P1-52
1P1_53	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE		1P1_54
101 55	SPACE		20 7	1					0	0	1	20 A				101 56
101 57	SPACE			1			-				1			SPACE		101 50
101 50	SPACE			1							1			SPACE		101.60
101.64				ו ס	0	0					2	105 ^		3D1		101.00
101.62	2F1	1.	125 A	3	0	0	0	0			3	125 A		381		101.64
1P1-03							U	0	0	0						1P1-04
101-05									U	U						101-00
101-67				1							1					121-68
1P1-69	NOBUS			1							1			NOBUS		1P1-70
1P1-/1	NOBUS			1							1			NOBUS		1P1-72
			Tota	I Load:	774	B VA	667	4 VA	648	D VA						
Type Lea	and:		Iota	Amps:	65	A	56	δA	54	A			-			
N=NORM/	AL G=GFI M=MOTORIZED E=E	XISTIN	NG S	T=SHUN	t trip A	A=ARC FA	AULT H=H	ANDLE LC	OCK							
l oad Clar	sification		<u> </u>	nnoctod	Load	Dema	nd Factor	Ect	imated D	mand				Panal Total	2	
	osincation		00	185/0 1/				ESI	18540 1/						•	
				2362 \/	Δ	10	5 00%		2052 \//	<u>~</u>			Total C	onn Load	20 Q M	Δ
				2002 07	~	12	0.00 /0		2933 VF	1		т	otal Fe	t Demand	20.9 KV	Λ Ά
													tal Con	n. Current	21.3 KV 58 Δ	
1											То	tal Fst	Demar	nd Current	50 A 60 Δ	
													_ 01101		50 A	
Notoo											1			I		

oles:

3. VERIFY ALL WALL MOUNTED FIXTURE LOCATIONS WITH THE LIGHTING DESIGNER

	BRANCH	1P3													
Notes:	Location: Supply From: Mounting: S Enclosure: T Available Isc:	MDP Surface Гуре 1					Volts: Phases: Wires:	120/208 \ 3 4	Vye		:	S.C.C.R Mai Main MCB	8. Rating ins Type s Rating 3 Rating SPI	g: 22,000 A e: MLO g: 225 A g: NONE D: NONE	
СКТ	Circuit Description	Туре	Trip	Poles		A		B	(C	Poles	Trip	Туре	Circuit Description	СКТ
1P2-1			20 A	1	360	360	720	0			1	20 A			1P2-2
1P2-3	TELECOWIGEN. RECEPTS		20 A	1			720	0	190	0	1	20 A			1P2-4
1P2-0			20 A	1	0	0			180	0	1	20 A			1P2-0
1P2-7			20 A	1	0	0	0	0			1	20 A		SPARE	1P2-0
1P2-9	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-10
1P2-11	SPARE		20 A	1	0	0			0	0	1	20 A		SPARE	1P2-12
1P2-13	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	1P2-14
1P2-15	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-10
102-17	SPARE		20 A	1	0	0			0	0	1	20 A		SPARE	1P2-10
102-19	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	1P2-20
1P2-21	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-22
1P2-23	SPARE		20 A	1		0			0	0	1	20 A		SPARE	1P2-24
1P2-25	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	1P2-20
1P2-27	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-28
1P2-29	SPARE		20 A	1		0			0	0	1	20 A		SPARE	1P2-30
1P2-31	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	1P2-32
1P2-33	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-34
1P2-35	SPARE		20 A	1					0	0	1	20 A		SPARE	1P2-36
1P2-37	SPARE		20 A	1	0	0		0			1	20 A		SPARE	1P2-38
1P2-39	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-40
1P2-41	SPARE		20 A	1		0			0	0	1	20 A		SPARE	1P2-42
1P2-43	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	1P2-44
1P2-45	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-46
1P2-47	SPARE		20 A	1		0			0	0	1	20 A		SPARE	1P2-48
1P2-49	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	1P2-50
1P2-51	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	1P2-52
1P2-53	SPARE		20 A	1		0			0	0	1	20 A		SPARE	1P2-54
1P2-55	SPARE		20 A	1	0	0		0			1	20 A		SPARE	1P2-56
1P2-57	SPARE		20 A	1			0	0			1	20 A		SPARE	1P2-58
1P2-59	SPARE		20 A	1		-			0	0	1	20 A		SPARE	1P2-60
1P2-61	SPARE		20 A	1	0	0		0			1	20 A		SPARE	1P2-62
1P2-63	SPARE		20 A	1			0	0		0	1	20 A		SPARE	1P2-64
1P2-65	SPARE		20 A	1					0	0	1	20 A		SPARE	1P2-66
1P2-67	SPARE		20 A	1	U	U	0	0			1	20 A		SPARE	1P2-68
1P2-69	SPARE		20 A	1			0	0			1	20 A		SPARE	1P2-70
1P2-/1	SPACE										1			SPACE	1P2-72
1P2-73	SPACE			1							1			SPACE	12-74
1P2-75	SPACE			1							1			SPACE	12-76
1P2-//	SPACE			1							1			SPACE	12-78
1P2-79	SPACE			1							1			SPACE	1P2-80
1P2-81	SPACE			1							1			SPACE	1P2-82
1P2-83	SPACE		 	1	701		701				1			SPACE	1P2-84
			Tota	al Load:	/20		/20		180						
			Iota	I Amps:	7	А	7	А	2	А					

Type Legend: N=NORMAL G=GFI M=MOTORIZED E=EXISTING ST=SHUNT TRIP A=ARC FAULT H=HANDLE LOCK

Connected Load	Demand Factor	Estimated
1620 VA	100.00%	1620
0 VA	0.00%	0 V
	Connected Load 1620 VA 0 VA	Connected Load Demand Factor 1620 VA 100.00% 0 VA 0.00%

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CONSULTANTS

MODUS Engineering

MEPT 118 East College St lowa City, lowa 52240 319.248.4600

PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

ISSUE

DATE	DESCRIPTION
02.03.2022	BIDDING DOCUMENTS

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SHEET NAME ELECTRICAL SCHEDULES

imated Demand 1620 VA

0 VA

Total Conn. Load: Total Est. Demand:

Total Est. Demand Current:

Total Conn. Current:

Panel Totals

1.6 kVA 1.6 kVA 4 A 4 A

BRANCH 2P1

Location: Supply From: 1P1 Mounting: Surface

Enclosure: Type 1 Available lsc:

Notes: TRANSFER LOADS FROM EXISTING PANELS. VERIFY EXISTING LOADS AND BREAKERS BEFORE TRANSFERRING.

СКТ	Circuit Description	Туре	Trip	Poles		A	В			с	Poles	Trip	Туре	Circuit Description	скт
2P1-1	SPARE		20 A	2	0	0					3	15 A		SPARE	2P1-2
2P1-3							0	0							2P1-4
2P1-5	SPARE		30 A	3					0	0					2P1-6
2P1-7					0	0					1	30 A		SPARE	2P1-8
2P1-9							0	0			1	20 A		SPARE	2P1-10
2P1-11	SPARE		20 A	1					0	0	1	20 A		SPARE	2P1-12
2P1-13	SPARE		20 A	1	0	0					1	20 A		SPARE	2P1-14
2P1-15	SPARE		20 A	1			0	0			1	20 A		SPARE	2P1-16
2P1-17	SPARE		20 A	1				-	0	0	1	20 A		SPARE	2P1-18
2P1-19	SPARE		20 A	1	0	0				-	1	20 A		SPARE	2P1-20
2P1-21	SPARE		20 A	1			0	0			1	20 A		SPARE	2P1-22
2P1-23	SPARE		20 A	1			-	-	0	0	1	20 A		SPARE	2P1-24
2P1-25	SPARE		20 A	1	0	0					1	20 A		SPARE	2P1-2f
2P1-27	SPARE		20 A	1		-	0	0			1	20 A		SPARE	2P1-28
2P1_29	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	2P1-30
2P1_31	SPARE		20 A	1	0	0					1	20 A		SPARE	2P1-30
201 33	SDARE		20 A	1	0	0	0	0			1	20 A			2013/
201 25	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	2F 1-34
2P1-00	SPARE		20 A	1	0	0			0	0	1	20 A		SPARE	2P 1-30
2P1-37	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE	2P 1-36
2P1-39	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE	2P1-40
2P1-41	SPARE		20 A		0	0			0	0	1	20 A		SPARE	2P1-42
2P1-43	SPARE		20 A	1	0	0	-				1	20 A		SPARE	2P1-44
2P1-45	SPARE		20 A	1			0	0		-	1	20 A		SPARE	2P1-46
2P1-47	SPARE		20 A	1					0	0	1	20 A		SPARE	2P1-48
2P1-49	SPARE		20 A	1	0	0	-	_			1	20 A		SPARE	2P1-50
2P1-51	SPARE	_	20 A	1			0	0	_		1	20 A		SPARE	2P1-52
2P1-53	SPACE			1							1			SPACE	2P1-54
2P1-55	SPACE			1							1			SPACE	2P1-56
2P1-57	SPACE			1							1			SPACE	2P1-58
2P1-59	SPACE			1							1			SPACE	2P1-60
2P1-61	SPACE			1							1			SPACE	2P1-62
2P1-63	SPACE			1							1			SPACE	2P1-64
2P1-65	SPACE			1							1			SPACE	2P1-66
2P1-67	SPACE			1							1			SPACE	2P1-68
2P1-69	SPACE			1							1			SPACE	2P1-70
2P1-71	SPACE			1							1			SPACE	2P1-72
			Tota	al Load:	0	VA	0 V.	4	0	VA					
Type Lege N=NORM/	end: AL G=GFI M=MOTORIZED	E=EXIST	Tota	I Amps : T=SHUN		A=ARC FA	0 A ULT H=HAI		0 0CK	A					
Load Clas	sification		Со	nnected	Load	Dema	nd Factor	Est	imated D	emand				Panel Totals	
													Total Co	onn. Load: 0.0) kVA
												Т	otal Est	. Demand: 0.0) kVA
			1									To	tal Con	n. Current:	0 A
											То	tal Est.	Deman	d Current:	A C
Na4															
NOTES:															

Volts: 120/208 Wye Phases: 3 Wires: 4

S.C.C.R. Rating: 10,000 A Mains Type: MCB Mains Rating: 225 A MCB Rating: 125 A SPD: NONE

BRANCH 2P2

Location: Supply From: 1P2 Mounting: Surface

Enclosure: Type 1 Available lsc:

Notes: TRANSFER LOADS FROM EXISTING PANELS.. VERIFY EXISTING LOADS AND BREAKERS BEFORE TRANSFERRING.

СКТ	Circuit Description	Type	Trin	Poles		A	E	5		С	Poles	Trin	Type Circ	uit Description	CI
-1	SPARE	Туре	20 A	1	0	0					1	20 A	SPARE		
-3	SPARE		20 A	1	-		0	0			1	20 A	SPARE		_
-5	SPARE		20 A	1				-	0	0	1	20 A	SPARE		-
-7	SPARE		20 A	1	0	0					1	20 A	SPARE		-
-9	SPARE		20 A	1	•		0	0			1	20 A	SPARE		
_11	SPARE		20 A	1					0	0	1	20 A	SPARE		<u> </u>
-13	SPARE		20 A	1	0	0				0	1	20 A	SPARE		+
-15	SPARE		20 A	1	0	Ū	0	0			1	20 A	SPARE		+ _
_17	SPARE		20 A	1			•	0	0	0	1	20 A	SPARE		+ _
_10	SPARE		20 A	1	0	0				0	1	20 A	SPARE		+
-13	SPARE		20 A	1	0	U	0	0			1	20 A			<u> </u>
-21	SPARL		20 A	1			0	0	0	0	1	20 A	SPARE		
-23			20 A	1	0	0			0	0	1	20 A	SPARE		
-20			20 A	1	0	0	0	0			1	20 A	SPARE		
-21	SPARE		20 A	1			U	U	0	0	1	20 A			
-29	SPARE		20 A	1	0	0			U	U	1	20 A	OPARE		-
-31	SPARE		20 A	1	0	0	0	0			1	20 A	SPARE		
-33	SPARE		20 A	1			0	0	0	0	1	20 A	SPARE		
-35	SPARE		20 A	1					0	0	1	20 A	SPARE		
-37	SPARE		20 A	1	0	0	-				1	20 A	SPARE		
-39	SPARE		20 A	1			0	0	-		1	20 A	SPARE		-
-41	SPARE		20 A	1					0	0	1	20 A	SPARE		
-43	SPARE		20 A	1	0	0					1	20 A	SPARE		
-45	SPARE		20 A	1			0	0			1	20 A	SPARE		
-47	SPARE		20 A	1					0	0	1	20 A	SPARE		
-49	SPARE		20 A	1	0	0					1	20 A	SPARE		
-51	SPARE		20 A	1			0	0			1	20 A	SPARE		
-53	SPACE			1							1		SPACE		
-55	SPACE			1							1		SPACE		
-57	SPACE			1							1		SPACE		-
-59	SPACE			1							1		SPACE		-
-61	SPACE			1							1		SPACE		-
-63	SPACE			1							1		SPACE		-
-65	SPACE			1							1		SPACE		-
-67	SPACE			1							1		SPACE		-
-69	SPACE			1							1		SPACE		-
-71	SPACE			1							1		SPACE		-
			Tota	al Load:	0	VA	0 \	/Α	0	VA					
			Tota	I Amps:	0	А	0	A	(AC					
e Leg NORM	end: AL G=GFI M=MOTORIZED	E=EXIST	TING S	T=SHUN ⁻	T TRIP A	A=ARC FA	AULT H=HA	NDLE L	ОСК						
ad Clas	ssification		Co	nnected	Load	Dema	nd Factor	Es	timated D	emand			Panel 7	Γotals	
			1			<u> </u>						•	Total Conn. Loa	d: 0.0 kV	/A
												Т	otal Est. Deman	d: 0.0 kV	/A
												To	tal Conn. Curren		
											То	tal Est.	Demand Curren		

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MODUS Engineering

MEPT 118 East College St lowa City, Iowa 52240 319.248.4600

S

Volts: 120/208 Wye Phases: 3 Wires: 4

S.C.C.R. Rating: 10,000 A Mains Type: MCB Mains Rating: 225 A MCB Rating: 125 A SPD: NONE

PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

ISSUE

DATE	DESCRIPTION
02.03.2022	BIDDING DOCUMENTS

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SHEET NAME ELECTRICAL SCHEDULES

BRANCH 3P1

Location: Supply From: 1P1

Mounting: Surface Enclosure: Type 1

Available lsc:

Notes: TRANSFER LOADS FROM EXISTING PANELS. VERIFY EXISTING LOADS AND BREAKERS BEFORE TRANSFERRING.

СКТ	Circuit Description	Туре	Trip	Poles		Α		В		С	Poles	Trip	Туре	Circuit Descr	iption	Ск
3P1-1	SPARE		20 A	2	0	0					2	20 A		SPARE	_	3P1
3P1-3							0	0								3P1
3P1-5	SPARE		20 A	2					0	0	2	20 A		SPARE		3P1
3P1-7					0	0										3P1
3P1-9	SPARE		30 A	2			0	0			2	20 A		SPARE		3P1-
3P1-11									0	0						3P1
3P1-13	SPARE		20 A	2	0	0			_		2	20 A		SPARE		3P1
3P1-15							0	0								3P1
3P1-17	SPARE		20 A	1			_		0	0	1	20 A		SPARE		3P1
3P1-19	SPARE		20 A	1	0	0					1	20 A		SPARE		3P1
3P1-21	SPARE		20 A	1			0	0			1	20 A		SPARE		3P1
3P1-23	SPARE		20 A	1					0	0	1	20 A		SPARE		3P1
3P1-25	SPARE		20 A	1	0	0				-	1	20 A		SPARE		3P1
3P1-27	SPARE		20 A	1	•		0	0			1	20 A		SPARE		3P1
3P1-29	SPARE		20 A	1					0	0	1	20 A		SPARE		3P1
3P1-31	SPARE		20 A	1	0	0			Ū		1	20 A		SPARE		3P1
3P1-33	SPARE		20 A	1	Ū		0	0			1	20 A		SPARE		3P1
3P1-35	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE		3P1
3P1_37	SPARE		20 A	1	0	0			0		1	20 A		SPARE		3P1
301_30	SPARE		20 A	1	0		0	0			1	20 A		SPARE		301
201 /1			20 A	1			0	0	0	0	1	20 A				301
3D1 /3	SPARE		20 A	1	0	0			0	0	1	20 A		SPARE		301
201 /5			20 A	1	0	0	0	0			1	20 A				201
2D1 47	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE		201
2D1 40	SPARE		20 A	1	0	0			0	0	1	20 A		SPARE		201
2D1 51	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE		201
0P1-01	SPARE		20 A	1			0	0			1	20 A		SPARE		201
3P1-53	SPACE			1							1			SPACE		
3P1-55	SPACE			1			-				1			SPACE		3P1
3P1-57	SPACE			1					-		1			SPACE		3P1
3P1-59	SPACE			1							1			SPACE		3P1
3P1-61	SPACE			1							1			SPACE		3P1
3P1-63	SPACE			1							1			SPACE		3P1
3P1-65	SPACE			1							1			SPACE		3P1
3P1-67	SPACE			1							1			SPACE		3P1
3P1-69	SPACE			1					-		1			SPACE		3P1
3P1-71	SPACE			1							1			SPACE		3P1
			Tota	al Load:	0	VA	0	VA	0	VA						
			Tota	I Amps:	C	A (0	A	0	A						
/pe Lege =NORM/	end: Al G=GFI M=MOTORIZED	E=EXIS	Tota	T=SHUN		A=ARC F	O O AULT H=H,	A A ANDLE LC	о оск	A						
oad Clas	sification		Co	nnected	Load	Dema	nd Factor	Est	imated D	emand				Panel Totals		
												1	Total Co	onn. Load:	0.0 kV/	A
												Т	otal Est	. Demand:	0.0 kV/	Ā
												То	tal Con	n. Current:	0 A	
			1			1		1			1	-		1		

Volts: 120/208 Wye Phases: 3 Wires: 4

S.C.C.R. Rating: 10,000 A Mains Type: MCB Mains Rating: 225 A MCB Rating: 125 A SPD: NONE

BRANCH 3P2

Location: Supply From:

Mounting: Surface Enclosure: Type 1

Available lsc: Notes: TRANSFER LOADS FROM EXISTING PANELS. VERIFY EXISTING LOADS AND BREAKERS BEFORE TRANSFERRING.

СКТ	Circuit Description Type	' Trip د	Poles	/	Α	,	В	(C	Poles	Trip	Type	Circuit Description	СКТ
3P2-1	PREHEAT COII	40 A	3	0	333					3	20 A	- 17~~	CP-1	3P2-2
3P2-3			+ <u>-</u>			0	333	1						3P2-4
3P2-5	+	'	+'					0	333	+	+	+		3P2-6
2D2_7				3150		4			000	- 1		+		3P2-8
202_9						3150	0	4		<u> </u>	207. 20 A	+		3P2-1
ວ⊏∠-⊽ 			+			3100		3150	-	<u> </u>	207. 20 Δ			2D2-11
<u>۲∠-۱،</u>			+			4		3100		1 1	207. 20 A			3P2-1/
3F2-10 2D2-15							-	4		1 <u>1</u>	207. 20 A			3P2-16
3P2-10 2P2-17		20 Λ 20 Δ	<u> '</u>			U			-	<u> </u>	20 Λ - 20 Δ			3P2-10
382-17		20 Λ 20 Δ	<u> '</u>	0	-	4				1 1	20 Λ 20 Δ			202-20
3P2-15	SPAKE			U			-	4		1	20 7			
3P2-21	SPARE	20 A	<u> </u>		4	U	U				20 A			342-22
342-20	SPARE	20 A	<u> </u>			4		U	U		20 A		SPARE	372-24
3P2-25	SPARE	20 A	1	U	U			4'		1	20 A		SPARE	3P2-20
3P2-27	SPARE	20 A	<u> 1</u>		4	U	U			1	20 A		SPARE	3P2-20
3P2-29	SPARE	20 A	1			4	4	U	U		20 A		SPARE	3P2-30
3P2-31	SPARE	20 A	<u>1</u>	0	0			4'		1	20 A		SPARE	3P2-32
3P2-33	SPARE	20 A	<u> 1</u>			0	0			1	20 A	<u> </u>	SPARE	3P2-34
3P2-35	SPARE	20 A	<u> 1</u>			4		0 '	0	1	20 A		SPARE	3P2-36
3P2-37	SPARE	20 A	1	0	0			4		1	20 A		SPARE	3P2-38
3P2-39	SPARE	20 A	1			0	0			1	20 A		SPARE	3P2-40
3P2-41	SPARE	20 A	1					0	0	1	20 A		SPARE	3P2-42
3P2-43	SPARE	20 A	1	0	0					3	20 A		SPARE	3P2-44
3P2-45	SPARE	20 A	′			0	0			_				3P2-46
3P2-47	SPARE	20 A	3					0	0					3P2-48
3P2-49		'		0	0					2	20 A		SPARE	3P2-50
3P2-51		'	'			0	0			<u> </u>				3P2-52
3P2-53	SPARE	60 A	2					0	0	2	60 A		SPARE	3P2-54
3P2-55		'		0	0					<u> </u>	·			3P2-56
3P2-57	SPACE	'	1			'		· · · · · · · · · · · · · · · · · · ·		1			SPACE	3P2-58
3P2-59	SPACE	'	1					· '		1			SPACE	3P2-60
3P2-61	SPACE	· '	1					/		1			SPACE	3P2-62
3P2-63	SPACE	· '	1			'		· · · · · · · · · · · · · · · · · · ·		1	†		SPACE	3P2-64
3P2-65	SPACE	· '	1_'					'		1_			SPACE	3P2-66
3P2-67	SPACE		1							1			SPACE	3P2-68
3P2-69	SPACE		1			'		,		1			SPACE	3P2-70
3P2-71	SPACE		1					'		1			SPACE	3P2-72
	,	Tot	al Load:	348	J3 VA	348	3 VA	348'	J3 VA	+		I		
		Tot <i>r</i>	al Amps:	29	9 A	<u></u> 2'	9 A	<u>2ç</u>	9 A					
Type Leg	end.		<u>··· .</u>				· -							
N=NORM	AL G=GFI M=MOTORIZED E=EXIS	STING S	ST=SHUN	JT TRIP /	A=ARC F/	AULT H=H		JCK						
• • •		••••	• -	• -	•••			0.1						

Load Classification	
HVAC	
Power	
Notes:	

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CONSULTANTS

MODUS Engineering

MEPT 118 East College St lowa City, Iowa 52240 319.248.4600

う

Volts: 120/208 Wye Phases: 3 Wires: 4

S.C.C.R. Rating: 10,000A Mains Type: MCB Mains Rating: 250 A MCB Rating: 225 A SPD: NONE

100.00% 100.00%

1000 VA

9450 VA

Connected Load Demand Factor Estimated Demand 1000 VA 9450 VA

Total Conn. Load: Total Est. Demand: Total Conn. Current:

Total Est. Demand Current:

10.5 kVA 10.5 kVA

29 A 29 A

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

ISSUE

DATE	DESCRIPTION
02.03.2022	BIDDING DOCUMENTS

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SHEET NAME ELECTRICAL SCHEDULES

BRANCH 1P2

Location: Supply From:

Mounting: Surface Enclosure: Type 1

Available lsc:

Notes: TRANSFER LOADS FROM EXISTING PANELS. VERIFY EXISTING LOADS AND BREAKERS BEFORE TRANSFERRING.

скт	Circuit Description	Type	Trin	Poles		A	В			С	Poles	Trip	Type	Circuit Des	scription	CK
-1	SPARE	Туре	25 A	2	0	0					2	20 A	Турс	SPARE	Scription	-2
-3					•	Ū	0	0								-4
-5	SPARE		20 A	2				0	0	0	3	20 A		SPARE		_
-7					0	0				Ŭ						
-7	SPARE		30 4		0	0	0	0								
-5			20 A	1				0	0	0	1	20 4		SDADE		-1
-11			20 A	1	0	0			0	0	1	20 A		SPARE		-1
-15	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE		- 1
-10	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE		-
-17	SPARE		20 A	1	0	0			0	0	1	20 A		SPARE		-
-19	SPARE		20 A	1	0	0	0	0			1	20 A		SPARE		-4
-21	SPARE		20 A	1			0	0	0	0	1	20 A		SPARE		-2
-23	SPARE		20 A	1		0			0	0	1	20 A		SPARE		-2
-25	SPARE	_	20 A	1	0	0					1	20 A		SPARE		-2
-27	SPARE		20 A	1			0	0			1	20 A		SPARE		-2
-29	SPARE		20 A	1					0	0	1	20 A		SPARE		-3
-31	SPARE	_	20 A	1	0	0					1	20 A		SPARE		-:
-33	SPARE		20 A	1			0	0	-		1	20 A		SPARE		
-35	SPARE		20 A	1					0	0	1	20 A		SPARE		-:
-37	SPARE		20 A	1	0	0					1	20 A		SPARE		-:
-39	SPARE		20 A	1			0	0	-		1	20 A		SPARE		-4
-41	SPARE		20 A	1					0	0	1	20 A		SPARE		-4
-43	SPARE		20 A	1	0	0					1	20 A		SPARE		-4
-45	SPARE		20 A	1			0	0			1	20 A		SPARE		-4
-47	SPARE		20 A	1					0	0	1	20 A		SPARE		-4
-49	SPARE		20 A	1	0	0					1	20 A		SPARE		
-51	SPARE		20 A	1			0	0			1	20 A		SPARE		-{
-53	SPACE			1						0	1	20 A		SPARE		-{
-55	SPACE			1							1			SPACE		-{
-57	SPACE			1							1			SPACE		-{
-59	SPACE			1							1			SPACE		-6
-61	SPACE			1							1			SPACE		-6
-63	SPACE			1							1			SPACE		-6
-65	SPACE			1							1			SPACE		-6
-67	2P2		125 A	3	0						1			SPACE		-6
-69							0				1			SPACE		
-71							- U		0		1			SPACE		
			Tota	al l oad.	0		0.V	Δ	0		•			OF / IOL		
			Tota	I Amne:	0		0.4	<u></u>	0							
pe Leg NORM ad Cla	end: AL G=GFI M=MOTORIZED ssification	E=EXIST	TING S	T=SHUN	T TRIP A	A=ARC FA	AULT H=HA	NDLE LO	OCK imated De	emand				Panel Totals		
								_								
													Total Co	onn. Load:	0.0 kV	A
												Т	otal Est	. Demand:	0.0 kV	A
								_				To	tal Coni	n. Current:	0 A	
											То	tal Est.	Deman	d Current:	0 A	
								_								
tes:																

ARCHITECT OF RECORD

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CONSULTANTS

MODUS Engineering

MEPT 118 East College St Iowa City, Iowa 52240 319.248.4600

Volts: 120/208 Wye Phases: 3 Wires: 4

S.C.C.R. Rating: 10,000 A Mains Type: MCB Mains Rating: 225 A MCB Rating: 225 A SPD: NONE

PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

JOHNSON COUNTY 913 South Dubuque Street Iowa City, Iowa 52240

PROJECT NO. 18.112

ISSUE

DATE	DESCRIPTION
02.03.2022	BIDDING DOCUMENTS

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SHEET NAME ELECTRICAL SCHEDULES

DEMO GENERAL NOTES:

- Α. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE B. DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

DEMO REFERENCED NOTES: (#) (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

- LOCATION OF EXISTING COUNTY NETWORK SWITCHES AND CABLE. 1 PROTECT EXISTING DEVICES AND CABLE UNTIL NEW SERVICES ARE ESTABLISHED.
- LOCATION OF EXISTING STATE NETWORK RACK AND CONNECTIONS. PROTECT EXISTING DEVICES AND CABLE UNTIL NEW SERVICES ARE ESTABLISHED. LOCATION OF INCOMING FIBER AND COPPER TELECOM SERVICES. PROTECT EXISTING FIBER FROM DAMAGE DURING CONSTRUCTION. EXISTING SPLICE
- BOX SHALL BE RELOCATED AS PART OF NEW WORK.
- LOCATION OF EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED. EXTEND CONDUCTORS FOR EXISTING PANEL TO NEW LOCATION.
- EXISTING CARD READERS AND MILLENNIUM CONTROL BOARDS OVER TO COUNTY FOR ATTIC STORAGE. ALL CABLING SHALL BE DEMOLISHED.
- 6. SERVER. SERVER SHALL BE RELOCATED TO NEW RACK LOCATION BY OWNER.
- LOCATION OF STATE PHONE SYSTEM. PROTECT EXISTING RACK AND PHONE 7. CONNECTIONS UNTIL NEW SERVICES ARE ESTABLISHED. COORDINATE WITH TECHNICOM COMMUNICATION SYSTEMS (319-364-3800) ON RELOCATION OF PHONE SYSTEMS.
- EXISTING NETWORK DEVICES (DATA OUTLETS, WAP'S, SECURITY CAMERAS) LOCATIONS TO BE CUT OVER. OLD NETWORK CABLE SHALL BE DEMOLISHED AFTER NEW TELECOM RACK CONNECTION IS ESTABLISHED AND BEFORE OLD TELECOM LOCATION IS DEMOLISHED. COORDINATE SYSTEM CUT OVER TO MINIMIZE DOWN TIME.

ARCHITECT OF RECORD

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MODUS Engineering

MEPT 118 East College St lowa City, lowa 52240 319.248.4600

10.

11.

12.

- LOCATION OF EXISTING CARD ACCESS SYSTEM. TURN ASSOCIATED
- LOCATION OF EXISTING VIDEO RECORDING SERVER. PROTECT EXISTING

DEMO REFERENCED NOTES: $\langle \# \rangle$ (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET

9. EXISTING CARD ACCESS LOCATIONS TO BE MAINTAINED. OLD CARD ACCESS CABLE SHALL BE DEMOLISHED WITH NEW INSTALLED BACK TO TELECOM ROOM. COORDINATE CONTROL BOX RELOCATION TO MINIMIZE DOWN TIME.

- PAGING SPEAKER TO BE RELOCATED TO COORDINATE SYSTEM CABLING BACK TO NEW TELECOM CLOSET.
- ALARM PANEL TO BE RELOCATED. REFER TO NEW WORK FOR NEW LOCATION. COORDINATE RELOCATION TO MINIMIZE DOWN TIME.
- LOCATION OF ANALOG CABLING. ANALOG PHONE CABLING EXPOSED AS PART OF RENOVATIONS SHALL BE DEMOLISHED COMPLETELY. ANALOG PHONE CABLE SERVING OTHER LOCATIONS SHALL BE REMOVED AS NEW CABLE IS INSTALLED.

SHEET NAME **FIRST LEVEL LOW** VOLTAGE **DEMOLITION PLAN**

TD-101.3

SHEET NUMBER

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PROJECT NO. 18.112

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

DEMO GENERAL NOTES:

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS Α. AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE B. DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

DEMO REFERENCED NOTES: (#) (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

- LOCATION OF EXISTING COUNTY NETWORK SWITCHES AND CABLE. 1 PROTECT EXISTING DEVICES AND CABLE UNTIL NEW SERVICES ARE ESTABLISHED.
- LOCATION OF EXISTING STATE NETWORK RACK AND CONNECTIONS. PROTECT EXISTING DEVICES AND CABLE UNTIL NEW SERVICES ARE ESTABLISHED.
- LOCATION OF INCOMING FIBER AND COPPER TELECOM SERVICES. PROTECT EXISTING FIBER FROM DAMAGE DURING CONSTRUCTION. EXISTING SPLICE BOX SHALL BE RELOCATED AS PART OF NEW WORK.
- LOCATION OF EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED. EXTEND CONDUCTORS FOR EXISTING PANEL TO NEW LOCATION.
- EXISTING CARD READERS AND MILLENNIUM CONTROL BOARDS OVER TO COUNTY FOR ATTIC STORAGE. ALL CABLING SHALL BE DEMOLISHED. 6.
- SERVER. SERVER SHALL BE RELOCATED TO NEW RACK LOCATION BY OWNER.
- 7. CONNECTIONS UNTIL NEW SERVICES ARE ESTABLISHED. COORDINATE WITH TECHNICOM COMMUNICATION SYSTEMS (319-364-3800) ON RELOCATION OF PHONE SYSTEMS.
- LOCATIONS TO BE CUT OVER. OLD NETWORK CABLE SHALL BE DEMOLISHED AFTER NEW TELECOM RACK CONNECTION IS ESTABLISHED AND BEFORE OLD TELECOM LOCATION IS DEMOLISHED. COORDINATE SYSTEM CUT OVER TO MINIMIZE DOWN TIME.

ARCHITECT OF RECORD

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CONSULTANTS

MODUS Engineering

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- LOCATION OF EXISTING CARD ACCESS SYSTEM. TURN ASSOCIATED
- LOCATION OF EXISTING VIDEO RECORDING SERVER. PROTECT EXISTING
- LOCATION OF STATE PHONE SYSTEM. PROTECT EXISTING RACK AND PHONE
- EXISTING NETWORK DEVICES (DATA OUTLETS, WAP'S, SECURITY CAMERAS)

DEMO REFERENCED NOTES: $\langle \# \rangle$ (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET

10.

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12.

- 9. EXISTING CARD ACCESS LOCATIONS TO BE MAINTAINED. OLD CARD ACCESS CABLE SHALL BE DEMOLISHED WITH NEW INSTALLED BACK TO TELECOM ROOM. COORDINATE CONTROL BOX RELOCATION TO MINIMIZE DOWN TIME.
 - PAGING SPEAKER TO BE RELOCATED TO COORDINATE SYSTEM CABLING BACK TO NEW TELECOM CLOSET.
 - ALARM PANEL TO BE RELOCATED. REFER TO NEW WORK FOR NEW LOCATION. COORDINATE RELOCATION TO MINIMIZE DOWN TIME.
- LOCATION OF ANALOG CABLING. ANALOG PHONE CABLING EXPOSED AS PART OF RENOVATIONS SHALL BE DEMOLISHED COMPLETELY. ANALOG PHONE CABLE SERVING OTHER LOCATIONS SHALL BE REMOVED AS NEW CABLE IS INSTALLED.

SHEET NAME SECOND LEVEL LOW VOLTAGE **DEMOLITION PLAN**

TD-102.3

SHEET NUMBER

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PROJECT NO. 18.112

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

DEMO GENERAL NOTES:

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS Α. AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE B. DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

DEMO REFERENCED NOTES: (#) (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

- LOCATION OF EXISTING COUNTY NETWORK SWITCHES AND CABLE. 1 PROTECT EXISTING DEVICES AND CABLE UNTIL NEW SERVICES ARE ESTABLISHED.
- LOCATION OF EXISTING STATE NETWORK RACK AND CONNECTIONS. PROTECT EXISTING DEVICES AND CABLE UNTIL NEW SERVICES ARE ESTABLISHED.
- LOCATION OF INCOMING FIBER AND COPPER TELECOM SERVICES. PROTECT EXISTING FIBER FROM DAMAGE DURING CONSTRUCTION. EXISTING SPLICE BOX SHALL BE RELOCATED AS PART OF NEW WORK.
- LOCATION OF EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED. EXTEND CONDUCTORS FOR EXISTING PANEL TO NEW LOCATION. LOCATION OF EXISTING CARD ACCESS SYSTEM. TURN ASSOCIATED EXISTING CARD READERS AND MILLENNIUM CONTROL BOARDS OVER TO
- LOCATION OF EXISTING VIDEO RECORDING SERVER. PROTECT EXISTING 6.

OWNER.

- LOCATION OF STATE PHONE SYSTEM. PROTECT EXISTING RACK AND PHONE 7. CONNECTIONS UNTIL NEW SERVICES ARE ESTABLISHED. COORDINATE WITH TECHNICOM COMMUNICATION SYSTEMS (319-364-3800) ON RELOCATION OF PHONE SYSTEMS.
- EXISTING NETWORK DEVICES (DATA OUTLETS, WAP'S, SECURITY CAMERAS) LOCATIONS TO BE CUT OVER. OLD NETWORK CABLE SHALL BE DEMOLISHED AFTER NEW TELECOM RACK CONNECTION IS ESTABLISHED AND BEFORE OLD TELECOM LOCATION IS DEMOLISHED. COORDINATE SYSTEM CUT OVER TO MINIMIZE DOWN TIME.

ARCHITECT OF RECORD

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111 East Grand Avenue | Suite 105 Des Moines, Iowa 50309 515.339.7800

CONSULTANTS

MODUS Engineering

MEPT 118 East College St lowa City, lowa 52240 319.248.4600

PROJECT NAME

JOHNSON

COURTHOUSE

RENOVATION

JOHNSON COUNTY

DESCRIPTION

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THIRD LEVEL LOW

DEMOLITION PLAN

02.03.2022 BIDDING DOCUMENTS

913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

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SHEET NAME

VOLTAGE

COUNTY

CLERK OF

COURTS

OWNER

ISSUE

DATE

- COUNTY FOR ATTIC STORAGE. ALL CABLING SHALL BE DEMOLISHED.
- SERVER. SERVER SHALL BE RELOCATED TO NEW RACK LOCATION BY

DEMO REFERENCED NOTES: $\langle \# \rangle$ (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET

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11.

12.

- 9. EXISTING CARD ACCESS LOCATIONS TO BE MAINTAINED. OLD CARD ACCESS CABLE SHALL BE DEMOLISHED WITH NEW INSTALLED BACK TO TELECOM ROOM. COORDINATE CONTROL BOX RELOCATION TO MINIMIZE DOWN TIME.
 - PAGING SPEAKER TO BE RELOCATED TO COORDINATE SYSTEM CABLING BACK TO NEW TELECOM CLOSET.
 - ALARM PANEL TO BE RELOCATED. REFER TO NEW WORK FOR NEW LOCATION. COORDINATE RELOCATION TO MINIMIZE DOWN TIME.
- LOCATION OF ANALOG CABLING. ANALOG PHONE CABLING EXPOSED AS PART OF RENOVATIONS SHALL BE DEMOLISHED COMPLETELY. ANALOG PHONE CABLE SERVING OTHER LOCATIONS SHALL BE REMOVED AS NEW CABLE IS INSTALLED.

SHEET NUMBER TD-103.3

			C	AMERA SCHEDU	JLE	
LABEI	MANUFACTURER	MODEL	DESCRIPTION	ROUGH-IN	LENS	RESOLUTION
C1	AXIS	P3245-LV	INDOOR POE DOME CAMERA	SINGLE GANG BOX	VARIFOCAL	2MP

SINGLE GANG BOX

INDOOR/OUTDOOR PoE MULTI-SENSOR

GENERAL NOTES: A. COORDINATE WITH OWNER ON FINAL CAMERA VIEW.

C2 AXIS

B. PROVIDE ALL ACCESSORIES AND HARDWARE FOR CORNER MOUNTED CAMERAS. C. TILE MOUNTED CAMERAS SHALL BE SUPPORTED BY BACKBOX CONNECTED TO SPANNING BAR.

P3719-PLE

CABLE TRAY SCHEDULE							
LABEL	TYPE	PART #	DIMENSIONS	HOSTED CABLING	MAX CATEGORY 6A (.275)		
CT-1	WIRE BASKET	CABLOFIL CF	12" x 4"	STATE / COUNTY NETWORK	220		

VARIFOCAL (x4)

15MP

360

GENERAL NOTES: A. PROVIDE DROP OUT KIT FOR ALL TRASIITIONS INTO RACKS AND TO VERTICAL TRAY RUNS.

GENERAL NOTES:

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- ALL CABLE TRAY ROUTING IS FOR SCHEMATIC PURPOSES ONLY. В. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUTING OF CABLE TRAY WITH OTHER TRADES, AND WHEN NECESSARY TRANSITION TO AVOID OBSTRUCTIONS.
- PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING C ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR F. CONTRACTOR PRIOR TO INSTALLATION.
- COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS, F CASEWORK SUBMITTALS, & OWNER PROVIDED EQUIPMENT.
- ALL DEVICES CALLED OUT TO BE INSTALLED AT NON-STANDARD G. HEIGHTS SHALL BE VERIFIED WITH DESIGN TEAM PRIOR TO ROUGH-IN.
- ALL NEW WORK INDICATED IN EXISTING WALLS SHALL BE Н. INSTALLED WITH CONCEALED WIRING AND FLUSH-MOUNTED DEVICES. CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR.
- FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED I. WITHIN 36 INCHES HORIZONTALLY FROM FORCED AIR HVAC DIFFUSERS OR THE END OF CEILING FAN BLADES.
- WIRELESS ACCESS POINTS (WAP) SHALL BE OWNER FURNISHED, 1. CONTRACTOR INSTALLED. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE (2) CATEGORY 6 CABLES TERMINATED ABOVE CEILING TO A BISCUIT JACK. PROVIDE FINAL PATCH CABLES FOR OWNER TO PATCH TO FIELD DEVICE. ALLOW FOR A 20FT SERVICE LOOP AT ACCESSIBLE CEILINGS.
- SECURITY CAMERA LOW VOLTAGE CONTRACTOR SHALL PROVIDE К. CATEGORY 6 TERMINATED ON A BISCUIT JACK ABOVE CEILING TO COUNTY POE NETWORK SWITCH IN THE TELECOM ROOM. SECURITY CAMERAS SHALL BE INSTALLED AND CONNECTED BY SECURITY CONTRACTOR.
- CORRIDOR SMOKE DETECTION SHALL BE USED TO ACTIVATE FIRE SMOKE DAMPER RELAY. ALL SMOKE DAMPERS SHALL BE WIRED TO CLOSE WHEN THE FIRE ALARM IS IN "ALARM" AND BE OPEN ON CLEAR AND TROUBLE SIGNAL.

<u>REFERENCED NOTES:</u> $\langle \# \rangle$ NOT ALL NOTES MAY BE APPLICABLE TO

- RELOCATE FIRE ALARM CONTROL PANEL FIRE ALARM TRUNK LINES SHALL BE RELOCATED TO NEW FIRE ALARM PANEL LOCATION.
- ACCESS CONTROL LOCATION. REFER TO LOW VOLTAGE DETAILS AND ARCHITECTURAL SPECIFICATION SECTION 08-7100 FOR OPERATION AND FURTHER ROUGH-IN/BIDDING INFORMATION. COORDINATE ALL DOORHOLDS, CARD READERS, ADA PUSHBUTTONS, AND OTHER ACCESSORIES WITH ARCHITECT AND DESIGN TEAM PRIOR TO ROUGH-IN.
- RELOCATE FIRST LEVEL CARD ACCESS SYSTEM HEAD END -3. EXISTING DOOR ACCESS FOR LEVEL ONE SHALL HAVE NEW CABLE PULLED TO NEW LOCATION.
- SHARED TELECOM ROOM. ALL LOW VOLTAGE CABLE SHALL BE 4. SERVED FROM THIS LOCATION. REFER TO ENLARGED TELECOM PLAN FOR ADDITIONAL INFORMATION.
- FIRE ALARM CONTRACTOR SHALL PROVIDE RELAY FOR ACTIVATION 5. OF SMOKE CURTAIN ON ALARM. FIRE ALARM CONTRACTOR SHALL COORDINATE WITH FIRE CURTAIN CONTRACTOR FOR INTEGRATION.
- LOCATION OF INCOMING FIBER AND COPPER TELECOM SERVICES. 6. PROTECT EXISTING FIBER FROM DAMAGE DURING CONSTRUCTION. EXISTING SPLICE BOX SHALL BE RELOCATED AS PART OF NEW WORK. PROVIDE 4X4 SHEET OF PLYWOOD FOR MOUNTING HARDWARE IN UPPER PORTION OF CLOSET.
- PROVIDE (2) NEW 72 STRAND SINGLE MODE FIBER AND (1) 25 PAIR 7. CATEGORY 3 BACK BONE FROM FIBER ENTRANCE CLOSET TO TELECOM ROOM. PROVIDE LC TERMINATIONS FOR FIRST 24 STRANDS ON EACH FIBER AND WALL BLOCK COPPER TERMINATIONS AT BOTH ENDS.
- SECURITY PANEL FOR DURESS BUTTON SYSTEM SHALL BE 8. RELOCATED TO THIS LOCATION. EXTEND EXISTING CABLING AS REQUIRED. REFER TO LOW VOLTAGE DETAILS FOR SYSTEM PHOTOS.
- ELEVATOR PHONE SHALL BE RELOCATED TO THIS LOCATION. COORDINATE SYSTEM RELOCATION WITH ELEVATOR CONTRACTOR 9. TO MINIMIZE OUTAGES.

VIEW ANGLE	POWER	NOTES
100°-36°	10.7W	1,2,3,4
360°	25.5W	1,2,3
	FEATURE NOTES: 1. REMOTE FOCU 2. LOW LIGHT FU 3. BUILT IN IR 4. TWO WAY AUE	S NCTIONALITY DIO

ARCHITECT OF RECORD

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11.	REMOTE UNLOCK PANEL. CONTRACTOR SHALL PROVIDE 2 GANG 4 BUTTON DESKTOP CONTROL PANEL WITH LIGHT FEEDBACK FOR REMOTE UNLOCK, ALARM CONTROLS CP-24AB OR APPROVED EQUIVALENT. COORDINATE MOUNTING WITH ARCHITECT AND OWNER. REFER TO LOW VOLTAGE DETAILS FOR FURTHER INFORMATION.
12.	PAGING SPEAKER HEAD END SHALL BE RELOCATED TO THIS LOCATION. RECONNECT ALL EXISTING PAGING SPEAKERS. EXTEND SYSTEM WIRING AS NEEDED.
13.	PROVIDE NEW NETWORK CABLING FOR ALL LOCATIONS INDICATED. COORDINATE PATHWAY WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. CABLE SHALL BE PULLED, TERMINATED, AND TESTED PRIOR TO DISCONNECT OF EXISTING NETWORK DROP. COORDINATE WITH OWNER TO MINIMIZE OUTAGES.
14.	COORDINATE INSTALLATION OF VERTICAL LOW VOLTAGE RISER IN EXISTING SHAFT SPACE. PROVIDE CONDUIT SLEEVES FOR NEW CABLE AND RETRO FIT 44 SERIES EZ PATH FOR EXISTING CABLE AS NECESSARY TO ACCOMMODATE CABLE QUANTITIES.
15.	HVAC UNIT ABOVE 2000 CFM. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTION ON THE SUPPLY AND RETURN SIDE OF THIS UNIT. CONNECT EACH DUCT SMOKE DETECTOR TO A FAN SHUTDOWN RELAY. COORDINATE PROGRAMMING AND SHUT DOWN SEQUENCE WITH MECHANICAL CONTRACTOR. FOLLOW NFPA 72 AND MANUFACTURER RECOMMENDATIONS FOR INSTALLATION.
16.	DATA SHALL BE FED VIA FURNITURE FEED. COORDINATE WALL CHANNEL LOCATIONS WITH ELECTRICAL CONTRACTOR.
17.	ELECTRICAL CONTRACTOR SHALL COORDINATE WIREMOLD AND FLOOR RUNNERS FOR DATA IN THIS LOCATION.

PROVIDE NEW HOLD UP STYLE DURESS BUTTON, ALARM CONTROLS

TS-18 OR APPROVED EQUIVALENT, MOUNTED UNDER COUNTER

<u>REFERENCED NOTES:</u> (#)

AND TIED BACK TO ALARM PANEL.

10.

SHEET NAME **FIRST LEVEL LOW VOLTAGE PLAN**

T-101.3

SHEET NUMBER

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ISSUE DATE DESCRIPTION 02.03.2022 BIDDING DOCUMENTS

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

GENERAL NOTES:

- SURFACE RACEWAY IS NOT TO BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
- ALL CABLE TRAY ROUTING IS FOR SCHEMATIC PURPOSES ONLY. B. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUTING OF CABLE TRAY WITH OTHER TRADES, AND WHEN NECESSARY TRANSITION TO AVOID OBSTRUCTIONS.
- PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING C ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.
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PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

JOHNSON COUNTY

DESCRIPTION

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SECOND LEVEL

LOW VOLTAGE

T-102.3

BIDDING DOCUMENTS

913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

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SHEET NAME

PLAN

SHEET NUMBER

OWNER

ISSUE

DATE

02.03.2022

G

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TS-18 OR APPROVED EQUIVALENT, MOUNTED UNDER COUNTER

<u>REFERENCED NOTES:</u> (#)

AND TIED BACK TO ALARM PANEL.

10.

PROJECT NAME JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER

ISSUE DATE

02.03.2022

JOHNSON COUNTY

DESCRIPTION

BIDDING DOCUMENTS

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THIRD LEVEL LOW

VOLTAGE PLAN

913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

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SHEET NAME

SHEET NUMBER **T-103.3**

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H EX

ARCHITECT OF RECORD

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11. REMOTE UNLOCK PANEL. CONTRACTOR SHALL PROVIDE 2 GANG 4 BUTTON DESKTOP CONTROL PANEL WITH LIGHT FEEDBACK FOR REMOTE UNLOCK, ALARM CONTROLS CP-24AB OR APPROVED EQUIVALENT. COORDINATE MOUNTING WITH ARCHITECT AND OWNER. REFER TO LOW VOLTAGE DETAILS FOR FURTHER INFORMATION. 12. PAGING SPEAKER HEAD END SHALL BE RELOCATED TO THIS LOCATION. RECONNECT ALL EXISTING PAGING SPEAKERS. EXTEND SYSTEM WIRING AS NEEDED. 13. PROVIDE NEW NETWORK CABLING FOR ALL LOCATIONS INDICATED. COORDINATE PATHWAY WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. CABLE SHALL BE PULLED, TERMINATED, AND TESTED PRIOR TO DISCONNECT OF EXISTING NETWORK DROP. COORDINATE WITH OWNER TO MINIMIZE OUTAGES. 14. COORDINATE INSTALLATION OF VERTICAL LOW VOLTAGE RISER IN EXISTING SHAFT SPACE. PROVIDE CONDUIT SLEEVES FOR NEW CABLE AND RETRO FIT 44 SERIES EZ PATH FOR EXISTING CABLE AS NECESSARY TO ACCOMMODATE CABLE QUANTITIES. 15. HVAC UNIT ABOVE 2000 CFM. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTION ON THE SUPPLY AND RETURN SIDE OF THIS UNIT. CONNECT EACH DUCT SMOKE DETECTOR TO A FAN SHUTDOWN RELAY. COORDINATE PROGRAMMING AND SHUT DOWN SEQUENCE WITH MECHANICAL CONTRACTOR. FOLLOW NFPA 72 AND MANUFACTURER RECOMMENDATIONS FOR INSTALLATION. DATA SHALL BE FED VIA FURNITURE FEED. COORDINATE WALL 16. CHANNEL LOCATIONS WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL COORDINATE WIREMOLD AND 17. FLOOR RUNNERS FOR DATA IN THIS LOCATION.

10. PROVIDE NEW HOLD UP STYLE DURESS BUTTON, ALARM CONTROLS

TS-18 OR APPROVED EQUIVALENT, MOUNTED UNDER COUNTER

<u>REFERENCED NOTES:</u> $\langle \# \rangle$

AND TIED BACK TO ALARM PANEL.

(NOT ALL NOTES MAY BE APPLICABLE TO

PROJECT NAME JOHNSON COUNTY COURTHOUSE CLERK OF COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street Iowa City, Iowa 52240

PROJECT NO. 18.112

ISSUE

DATE	DESCRIPTION
02.03.2022	BIDDING DOCUMENTS

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SHEET NAME ATTIC LOW VOLTAGE PLAN

T-104.3

- 1 FIRE ALARM MOUNTING DETAILS No Scale

-

5 TELECOM DEVICE DETAIL No Scale

J-HOOK PATHWAY GENERAL NOTES:

- THIS DETAIL ILLUSTRATES ACCEPTABLE INSTALLATION PRACTICES IN ACCESSIBLE CEILING AREAS. IN Α. EXPOSED CEILING LOCATIONS, CABLING SHALL BE CONCEALED IN CONDUIT.
- J-HOOKS SHALL BE SPACED AT A MAXIMUM OF NO MORE THAN 5 FEET APART. LOOSELY BUNDLE CABLE AND MANAGE В. UTILIZING VELCRO STRIPS.
- KEEP ALL DATA CABLING ISOLATED FROM OTHER SYSTEMS. J-HOOK SYSTEM SHALL ALLOW OTHER HOOKS TO ATTACH IN A C. STACKING METHOD. KEEP FIRE ALARM CABLING IN ITS OWN HOOK PATHWAY.
- WHEN CABLING IS ROUTED TO A CEILING DEVICE, CABLING SHALL BE SUPPORTED AND CABLING KEPT OFF OF ALL CEILING D. TILES AND ABOVE CEILING EQUIPMENT.

6 J-HOOK PATHWAY DETAIL No Scale

2 LOW VOLTAGE GROUNDING DIAGRAM No Scale

- GROUND BAR NOTES:
- INSTALL A 1/4" X 4" X 24" SOLID COPPER GROUND BAR WITH INSULATORS AND BRACKETS EQUAL TO ERITECH "EGBA" SERIES GROUND BAR ADJACENT TO EACH SERVICE ENTRANCE. GROUND BAR SHALL HAVE A MINIMUM AMPACITY EQUIVALENT
- TO THE MINIMUM SIZE OF THE GROUNDING ELECTRODE CONDUCTOR ALLOWED BY NEC TABLE 250.66
- GROUND BAR SHALL HAVE 50% OF ITS OPENINGS UNUSED.

- NOTES: MINIMUM CONDUIT SIZE FOR LOW VOLTAGE WIRING SHALL BE Α. 1". REFER TO SPECIFICATIONS FOR DETAILS.
- ALL STANDARD WORK AREA OUTLETS SHALL BE PROVIDED WITH Β. TWO (2) CATEGORY 6 CABLES.
- DETAILS ARE DRAWN BASED ON STUD TYPE CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) 4-11/16" BACKBOX FOR ALL LOW VOLTAGE OUTLETS WITH A SINGLE GANG OPENING. IF OUTLET IS LOCATED INSIDE A CONCRETE WALL, ELECTRICAL CONTRACTOR SHALL UTILIZE A SINGLE GANG DEEP MASONRY BOX FOR ROUGH-IN PURPOSES.
- STRUCTURED CABLING SUBCONTRACTOR SHALL PROVIDE 4-PORT FACEPLATE AS SHOWN. PROVIDE BLANKS FOR ANY UNUSED OPENINGS. REFER TO SPECIFICATION 27 1005 FOR FURTHER DETAIL.
- ALL STATE WORK AREA OUTLET TERMINATIONS SHALL BE GREEN IN COLOR.
- ALL COUNTY WORK AREA OUTLET TERMINATIONS SHALL BE ORANGE IN COLOR.

Ε.

F.

7 LOW VOLTAGE CEILING ROUGH-IN DETAIL No Scale

1/4" = 1'-0"

MANUFACTURER	
MODEL	
HEIGHT (RU)	
WIDTH	
DEPTH	
TYPE	
MOUNTING	
CABLE MANAGEMENT	
POWER DISTRIBUTION	
POWER CIRCUITS	
LOCATION	

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_	Α.	NEATLY BUNDLE AND MANAGE ALL CABLING IN GROUPS OF 24. SUPPORT WITH VELCRO STRAPS AS NECESSARY. PROVIDE APPROPRIATE ACCESSORIES AND TRANSITIONS TO MANAGE CABLING WHILE MAINTAINING MANUFACTURER RECOMMENDED BEND RADII.
_	TELECOM	ROOM REFERENCE NOTES:
	1.	WALL SHALL BE LINED (6" AFF) WITH 4' X 8' SHEETS OF 3/4" AC GRADE FIRE RETARDANT PLYWOOD PAINTED WHITE WITH FIRE RETARDANT PAINT. LEAVE FIRE RATED WOOD STAMP VISIBLE FOR INSPECTION. PLYWOOD SHOULD BE CONTINUOUS INTO ALL CORNERS.
	2.	DEDICATED WALL SPACE TO HOST DOOR ACCESS HEAD END COMPONENTS.
	3.	CONTRACTOR SHALL INSTALL OWNER (COUNTY) FURNISHED 2-POST RACK CHATSWORTH 15217-703.
	4.	CONTRACTOR SHALL PROVIDE AND INSTALL A 2-POST RACK MATCHING COUNTY PROVIDED RACK CHATSWORTH 15217-703. PROVIDE DOUBLE SIDED CABLE MANAGEMENT ON BOTH SIDES OF THE RACK AS ILLUSTRATED.
	5.	LOCATION OF 110 BLOCK WALL FIELD FOR COPPER BACKBONE CROSS CONNECT.
	6.	ALL NEW FIBER OPTIC CABLING SHALL HAVE A 20' SERVICE LOOP PLACED AND NEATLY MANAGED IN A COIL BELOW THE TRAY.
	7.	PROVIDE TELECOMMUNICATION GROUNDING BUSBAR MOUNTED BELOW THE BASKET TRAY. GROUND AND BOND ALL EQUIPMENT AS IDENTIFIED IN THE TELECOMMUNICATIONS GROUNDING AND BONDING DETAIL.
	8.	PROVIDE (6) 4-INCH EX-PATH SERIES 44 FIRE RATED SLEEVES. (4) SHALL SERVE ALL CATEGORY 6 CABLING, (1) SHALL SERVE SECURITY , AND (1) SHALL BE RESERVED FOR FUTURE. COORDINATE INSTALLATION WITH CORRIDOR CEILING HEIGHT AND CABLE TRAY INSTALLATION.
	9.	CONTRACTOR SHALL COORDINATE WITH TECHNICOM COMMUNICATION SYSTEMS (319-364-3800) ON RELOCATION OF PHONE SYSTEMS.

TELECOM ROOM GENERAL NOTES:

4 LEVEL 1 LOW VOLTAGE PLAN - TELECOM ROOM

HORIZONTAL AND VERTICAL

VERTICAL

ONE (1) 20 AMP

BLANK
FUTURE FIBER CONNECTIONS
BLANK
48 PORT SWITCH
PATCH PANNEL
HORIZONTAL MANAGEMENT
48 PORT SWITCH
PATCH PANNEL
HORIZONTAL MANAGEMENT
48 PORT SWITCH
PATCH PANNEL
HORIZONTAL MANAGEMENT
48 PORT SWITCH
PATCH PANNEL
HORIZONTAL MANAGEMENT
BLANK
RESERVED FOR OWNER PROVIDED PHONE SYSTEM
BLANK
BLANK
BLANK
BLANK
RESERVED FOR UPS
STATE TELECOM RACK CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CHATSWORTH - CONTRACTRO FURNIHSED
15217-703
72" (44 RU)

22"

2 POST

FLOOR HORIZONTAL AND VERTICAL

VERTICAL

ONE (1) 20 AMP

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PROJECT NAME

JOHNSON COUNTY COURTHOUSE **CLERK OF** COURTS RENOVATION

OWNER JOHNSON COUNTY 913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

ISSUE

ISSUE			
DATE	ATE DESCRIPTION		
02.03.2022	2 BIDDING DOCUMENTS		

T-501.3

2 MATRIX OF RESPONSIBLITY FOR ACCESS CONTROL No Scale

- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PULLING THE HARDWARE • CABLING THROUGH THE FRAME AND SHALL EITHER COORDINATE WITH THE HARDWARE INSTALLER OR THEIR ACCESS CONTROL SUB TO ENSURE THAT THIS GETS DONE APPROPRIATELY DURING ROUGH-IN AND FRAME INSTALLATION AND/OR RETROFITTING OF EXISTING DOORS.
- DOOR OPERATORS AND ANY CENTRALIZED POWER SUPPLIES AT THE ACCESS CONTROL HEAD END. COORDINATE WITH INSTALLING CONTRACTORS FOR THE ACCESS CONTROL SYSTEM, AUTOMATIC DOOR OPERATORS AND DOOR HARDWARE PROVIDERS ON SPECIFIC NEEDS. REFER TO POWER PLANS FOR PROXIMITY READERS WITH TH CIRCUITING INFORMATION. COMPATIBILITY, OPERATION, A
- ALL REQUIRED ROUGH-IN AND JUNCTION BOXES FOR ACCESS CONTROL SYSTEM'S • PROXIMITY CARD READERS, AUTOMATIC DOOR OPENER ACTUATORS, AUXILIARY ALARM DEVICES AND J-BOX WIRING POINTS AS SHOWN IN THE DETAILS.

ALL 110VAC CIRCUITS FOR ACCESS CONTROL POWER SUPPLIES, AUTOMATIC

- ALL CONDUIT PATHWAYS AS IT IS REQUIRED FOR THE AUTOMATIC DOOR • OPERATORS AND ACTUATORS.
- APPROPRIATE FIRE STOPPING REQUIRED. ALL CONDUIT PATHWAYS FROM EACH RESPECTIVE DOOR'S JUNCTION BOX OR • ACCESS CONTROL ENCLOSURE TO THE FRAME OF THE DOOR FOR EACH REQUIRED
- CONDUIT PATHWAYS, SLEEVES AND PENETRATIONS FROM ACCESS CONTROL • HEAD END LOCATION TO EACH DOOR'S RESPECTIVE JUNCTION BOX. TREAT EACH THROUGH PENETRATION AS A ONE HOUR RATED WALL AND PROVIDE

ELECTRICAL CONTRACTOR (SPECIFICATION SECTION 26) ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

THE ELECTRIFIED HARDWARE COORDINATE ALL INTEGRATED

- SEALS, WALL STOPS, GASKET AND INSTALLED BY THE DOOR DOOR HARDWARE SUPPLIER NEEDED TO CONTROL AND HA
- ALL OTHER MECHANICAL AND INCLUDING BUT NOT LIMITED
- INSTALLED ONLY BY A CERTIFI CONNECTION SHALL BE PROVI
- ALL ELECTRIFIED LOCKSETS, READER/MAGSTRIPE LOCKSET HARDWARE CONTRACTOR.

DOOR HARDWARE CONTRACTOR (SP DOOR HARDWARE CONTRACTOR SHALL AS IT RELATES TO THE ACCESS CONTROL

1 ACCESS CONTROL DETAIL No Scale

DEVICE.

(4) SECURITY DEVICE DETAIL No Scale

ACCESS CONTROL GENERAL NOTES:

MATRIX OF RESPONSIBILITIES FOR DOOR HARDWARE

MATRIX OF RESTONSIBLETTIES FOR DOOR HARDWARE					
ARDWARE CONTRACTOR (SPECIFICATION SECTION 08 7100)	DOOR ACCESS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES				
ALL ELECTRIFIED LOCKSETS, STRIKES, PANIC BARS AND INTEGRATED PROXIMITY READER/MAGSTRIPE LOCKSETS, STRIKES, PANIC BARS AND INTEGRATED PROXIMITY READER/MAGSTRIPE LOCKSETS SHALL BE PROVIDED AND INSTALLED BY DOOR HARDWARE CONTRACTOR. ADA OPERATORS SHALL BE PROVIDED BY DOOR HARDWARE CONTRACTOR AND INSTALLED ONLY BY A CERTIFIED AUTO OPERATOR INSTALLER. FINAL POWER CONNECTION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.	 THIS CONTRACTOR SHALL AT BID TIME, COORDINATE ALL COMPONENTS/DEVICES AS SPECIFIED IN 087100. LOOK FOR DOOR POSITION SWITCHES, INTEGRAL OR SPECIAL CARD READERS, AND POWER SUPPLY DISCREPANCIES THAT MAY EFFECT COUNTS OR BID. ALL CONCERNS SHALL BE BROUGHT TO ENGINEER FOR CLARIFICATION DURING ADDENDA PHASE. COORDINATE FRAME PREP REQUIREMENTS WITH DOOR FRAME CONTRACTOR. ACCESS CONTROL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF PULLING AND TERMINATION OF ALL LOW VOLTAGE CONNECTIONS TO THE CARD ACCESS SYSTEM FOR OPERATION 	 ARE COMPONENTS: SOFTWARE PROGRAMMING FOR EACH INDIVIDUAL OPENING. COORDINATE ALL UNLOCK/LOCK DOOR SCHEDULES AND DOOR LABELING SCHEME WITH OWNER PRIOR TO PROGRAMMING. ACCESS CONTROL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR AND AUTOMATIC OPERATOR CONTRACTOR WITH LOCATIONS HAVING BOTH AUTOMATIC DOOR OPERATORS AND ACCESS CONTROL. ACCESS CONTROL CONTRACTOR SHALL PROVIDE FREE EGRESS FUNCTIONALITY. UPON PRESSING THE INTERIOR ACTUATOR, THE DOOR SHALL BOTH SIMULATIONS IN UNCENANT OF THE DOOR SHALL BOTH 			
ALL OTHER MECHANICAL AND NON-ELECTRIFIED DOOR HARDWARE COMPONENTS INCLUDING BUT NOT LIMITED TO, LOCKSETS, CYLINDERS, HINGES, KICKPLATES, SEALS, WALL STOPS, GASKETS, CLOSERS AND PUSHPLATES SHALL ALL BE PROVIDED AND INSTALLED BY THE DOOR HARDWARE CONTRACTOR. DOOR HARDWARE SUPPLIER SHALL SUPPLY ALL APPROPRIATE POWER SUPPLIES NEEDED TO CONTROL AND HANDLE THE APPROPRIATE POWER REQUIREMENTS OF THE ELECTRIFIED HARDWARE THEY ARE PROVIDING.	 MOTION DETECTORS SHALL BE INSTALLED WHERE NOTED TO SHUNT ALARMS ON THE ACCESS SYSTEM WHILE ALLOWING EGRESS. STANDALONE PROXIMITY READERS SHALL BE INSTALLED AT LOCATIONS IDENTIFIED ON THE FLOOR PLANS. 	 SIMULTANEOUSLY UNLOCK AND OPEN. PROVIDE ALL WIRING AND RELAY INTERFACES WITH THE DOOR OPERATOR TO CREATE THIS FUNCTIONALITY. ACCESS CONTROL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EACH OPENING'S NEED FOR FUNCTIONALITY DURING THE EVENT OF A FIRE. COORDINATE SPECIFIC CABLE DROP AND/OR FIRE ALARM RELAY NEEDS WITH FIRE ALARM CONTRACTOR. 			
COORDINATE ALL INTEGRATED ACCESS CONTROL DEVICES SUCH AS INTEGRATED PROXIMITY READERS WITH THE ACCESS CONTROL CONTRACTORS FOR COMPATIBILITY, OPERATION, AND SEAMLESS INTEGRATION.	 ALL HEAD END SERVERS, ENCLOSURES, CONTROLLERS, READERS, INPUT/OUTPUT BOARDS AND LOCAL POWER SUPPLIES REQUIRED TO CREATE A FULLY FUNCTIONAL EXTENSION OF THE EXISTING ACCESS CONTROL SYSTEM. ACCESS CONTROL CABLING AND TERMINATIONS FOR ALL ACCESS CONTROL RELATED DOOR HARDWARE COMPONENTS AT BOTH THE HEAD END LOCATION AND AT EACH DOOR LOCATION. DATA CABLE AND POWER OVER ETHERNET SWITCH SHALL BE OWNER PROVIDED. 	 FINAL PERFORMANCE TESTING OF EACH LOCATION SHALL BE PROVIDED BY THE ACCESS CONTROL CONTRACTOR. INTEGRATE WITH ALL AUXILIARY INPUTS AND OUTSIDE SYSTEM INFLUENCES SUCH AS, BUT NOT LIMITED TO, VIDEO SURVEILLANCE , AUXILIARY LOCK DOWN OR DOOR RELEASE BUTTONS, FIRE ALARM, BURGLAR SYSTEMS, ETC. 			

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PROJECT NAME

JOHNSON

CLERK OF

COURTS

OWNER

ISSUE DATE

COURTHOUSE

RENOVATION

JOHNSON COUNTY

913 South Dubuque Street lowa City, lowa 52240

PROJECT NO. 18.112

COUNTY

HONEYWELL ADEMCO VISTA-20P

GENERAL NOTES:

- A. PROVIDE ENGRAVED LABELS FOR ALL BUTTONS, LABELING SHALL BE COORDINATED WITH OWNER PRIOR TO ORDERING. BUTTON PRESS SHALL ACTIVATE A MOMENTARY CONTACT В. CLOSURE.
- C. BUTTON SHALL ILLUMINATE ON ALL CONTROL PANELS WHEN DOOR IS UNLOCKED.
- COORDINATE ALL SYSTEM PROGRAMING AND UNLOCK D. TIMINGS WITH OWNER PRIOR TO PROGRAMMING.

ADDITIONAL OWNER/SPECIFICATION SECTION 27 ITEMS

OWNER/SECTION 27 CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

ALL CATEGORY 6 OR 6A CABLING TO A WORK AREA OUTLET FOR EACH COORDINATED •

ACCESS CONTROL PANEL LOCATION.

- FINAL PATCH CORD TO EQUIPMENT.
- POWER OVER ETHERNET SWITCHES FOR THE ACCESS CONTROL PANELS AND
- ELECTRIC STRIKES.

IP ADDRESS SCHEME FOR ALL IP DEVICES. ACCESS CONTROL CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OWNER FOR THIS INFORMATION.

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DESCRIPTION

02.03.2022 BIDDING DOCUMENTS

SHEET NAME LOW VOLTAGE DETAILS

T-502.3

SHEET NUMBER

ORDINATE ALL WITH OWNER PRIOR ATING WITH THE CTOR WITH ACCESS CONTROL.