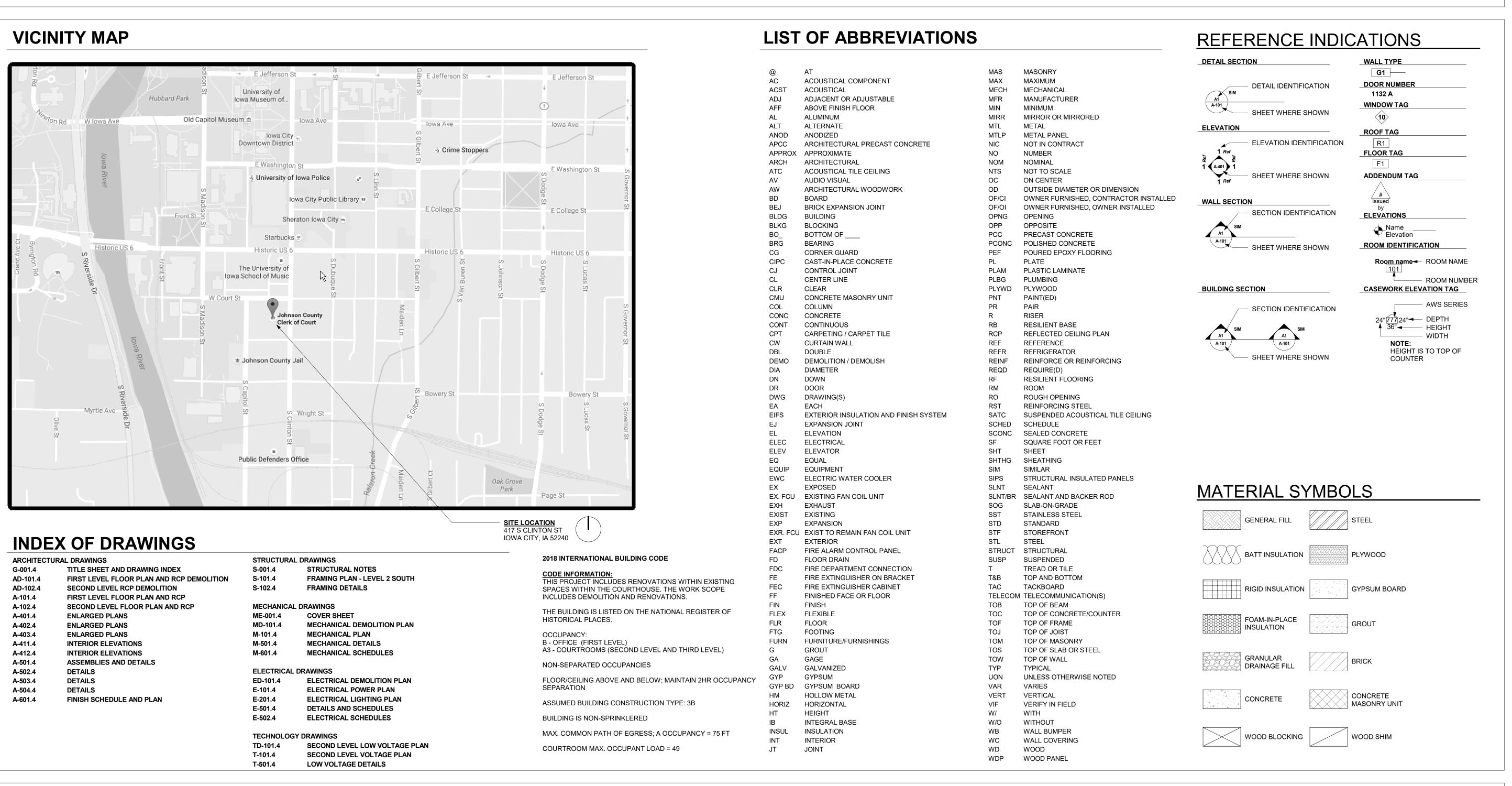
### JOHNSON COUNTY COURTHOUSE SECOND LEVEL COURTROOM RENOVATION

417 S. CLINTON ST., IOWA CITY, IOWA 52240



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 Iowa.

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Pages or sheets covered by this seal: \_

I hereby certify that this engineering document was

prepared by me or under my direct supervision

and that I am a duly licensed Professional

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lowa City, lowa 52240

319 248 4600

319.333.7850

Raker Rhodes Engineering
Structural Engineer
112 East Washington St | Unit B
lowa City, lowa 52240

**PROJECT NAME** 

JOHNSON
COUNTY
COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION

OWNER

JOHNSON COUNTY

913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

DATE	DESCRIPTION
09/23/2022	BIDDING DOCUMENTS
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**DRAWING INDEX** 

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and that I am a duly licensed Professional

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Engineer under the laws of the State of lowa.

HEET NUMBER

G-001.4

### **DEMOLITION KEYNOTES** KEYNOTE TEXT

**KEY VALUE** 

REMOVE PORTION OF WALL FOR NEW OPENING, SEE A-SHEETS FOR SIZE AND DETAILS. INSTALL LINTEL, JAMB, FRAMING, AND INFILL FLOOR

REMOVE CEILING GRID AND TILE D39 REMOVE SUSPENDED GRID AND TILE CEILING AND

PLASTER AND LATH CEILING REMOVE PORTIONS OF WALLS FOR BEAM INSTALLATION

REMOVE AND REINSTALL CEILING TILE AND GRID TO ACHIEVE THE WORK. REPLACE CEILING TILE AND GRID DAMAGED DURING CONSTRUCTION

EXIST. 1" CEMENTITIOUS PLASTER OVER METAL LATH EXIST. STEEL BEAMS ABOVE PLASTER CEILING

### FIRST LEVEL 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. CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SALVAGED.

3. 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. 4. INSTALL DUST PARTITIONS TO CONTAIN DUST BETWEEN WORK AREAS AND ADJACENT OCCUPIED AREAS.

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ARCHITECT OF RECORD

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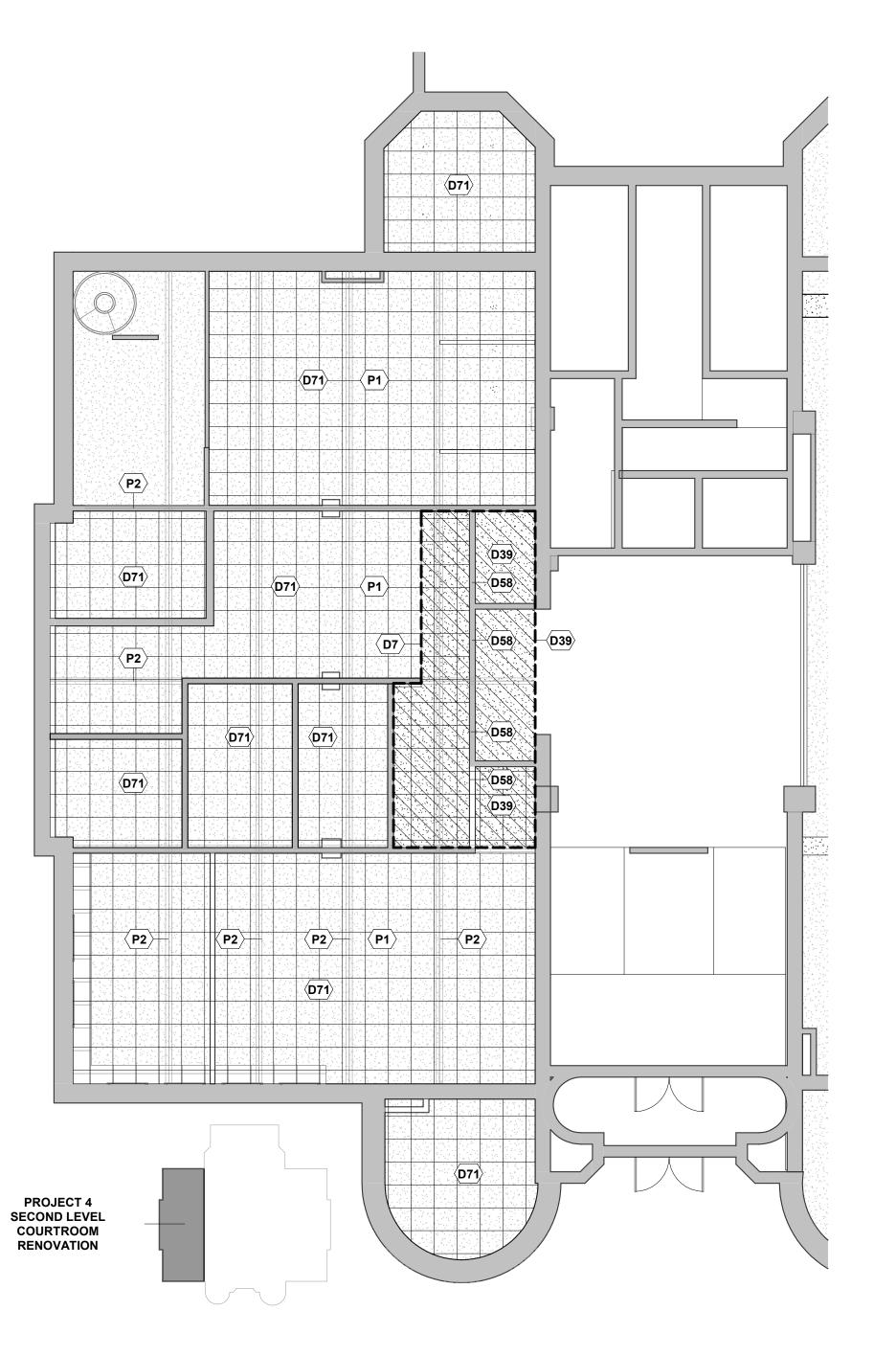
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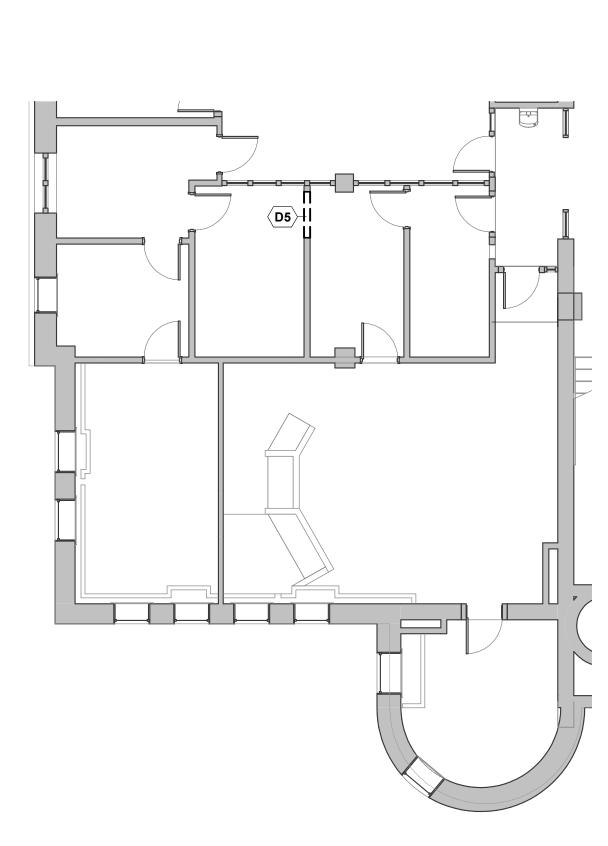
319.248.4600 Raker Rhodes Engineering

Structural Engineer 112 East Washington St | Unit B lowa City, Iowa 52240 319.333.7850









PROJECT NAME

**JOHNSON** 

COURTHOUSE

COURTROOM

**RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street Iowa City, Iowa 52240

DESCRIPTION

PROJECT NO. 18.112

**SECOND LEVEL** 

COUNTY

SHEET NAME

**FIRST LEVEL FLOOR PLAN AND** RCP DEMOLITION

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AD-101.4

**KEY VALUE** 

REMOVE DOOR, FRAME, CASINGS, HARDWARE, AND REMOVE UPPER AND LOWER CASEWORK REMOVE STUD WALL

REMOVE CEILING GRID AND TILE D9 REMOVE FLOOR ASSEMBLY; PROTECT PLASTER CEILING BELOW REMOVE DOOR DURING CONSTRUCTION; INSTALL PLYWOOD D10 CONSTRUCTION DOOR. REMOVE AND SALVAGE CASINGS AND FRAMES FOR REINSTALLATION. INSTALL PROTECTIVE COVERING OVER TRIM TO REMAIN.

D13 REMOVE TILE AND MORTAR REMOVE CARPET AND ADHESIVE AND PAD AND TACK STRIPS D15 D23 REMOVE WOOD BASE AND SHOE; SALVAGE FOR REUSE, TYP.

REMOVE MINI BLINDS AT ALL EXTERIOR WINDOWS; PATCH D31 FASTENER HOLES, TYP. D46 REMOVE PARTITION WALL; SALVAGE

REMOVE CEMENTITIOUS TERRAZZO AND CONCRETE TO DEPTH D48

D50 REMOVE SINK, BACKSPLASH, AND SIDESPLASH D54 REMOVE TERRAZZO BASE

D57 REMOVE AND DISPOSE OF FURNITURE D67 REMOVE HEADWALL, INCLUDING ALL FRAMING AND GYP BD OR

D73 REMOVE PORTION OF HEADWALL FOR INSTALLATION OF NEW

D78 REMOVE DOOR. REMOVE, REFINISH, AND REINSTALL FRAMES AND CASINGS.

SECOND LEVEL GENERAL DEMOLITION NOTES

1. 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.

2. INSTALL DUST PARTITIONS TO CONTAIN DUST BETWEEN WORK AREAS AND ADJACENT OCCUPIED AREAS. 3. 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. 4. CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SALVAGED. 5. 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. 6. REMOVE AND DISPOSE OF ALL FURNITURE. CAREFULLY REMOVE ALL WOOD TRIM NOTED TO BE SALVAGED, AND CATALOG LOCATION. CAREFULLY REMOVE FASTENERS FROM WOOD. STORE TRIM IN OWNER

DESIGNATED ON-SITE LOCATION. REFINISH AND REINSTALL WOOD TRIM. 8. INSTALL DUST PARTITIONS TO CONTAIN DUST BETWEEN WORK AREAS AND

9. PROTECT EXISTING WOOD TRIM TO REMAIN

ADJACENT OCCUPIED AREAS.

**√D23** D23 | + D57 | | | D57  $\langle \overline{D3} \rangle \langle \overline{D57} \rangle$ **D31** D57 **√D23**>+ **∄ D57** EXIST. CONCRETE FLOOR TO REMAIN, SEE STRUCTURAL PROJECT 4 SECOND LEVEL COURTROOM **RENOVATION** 

A4 SECOND LEVEL DEMOLITION PLAN

1/8" = 1'-0"

ARCHITECT OF RECORD

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PROJECT NAME

**JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street lowa City, Iowa 52240

**PROJECT NO.** 18.112

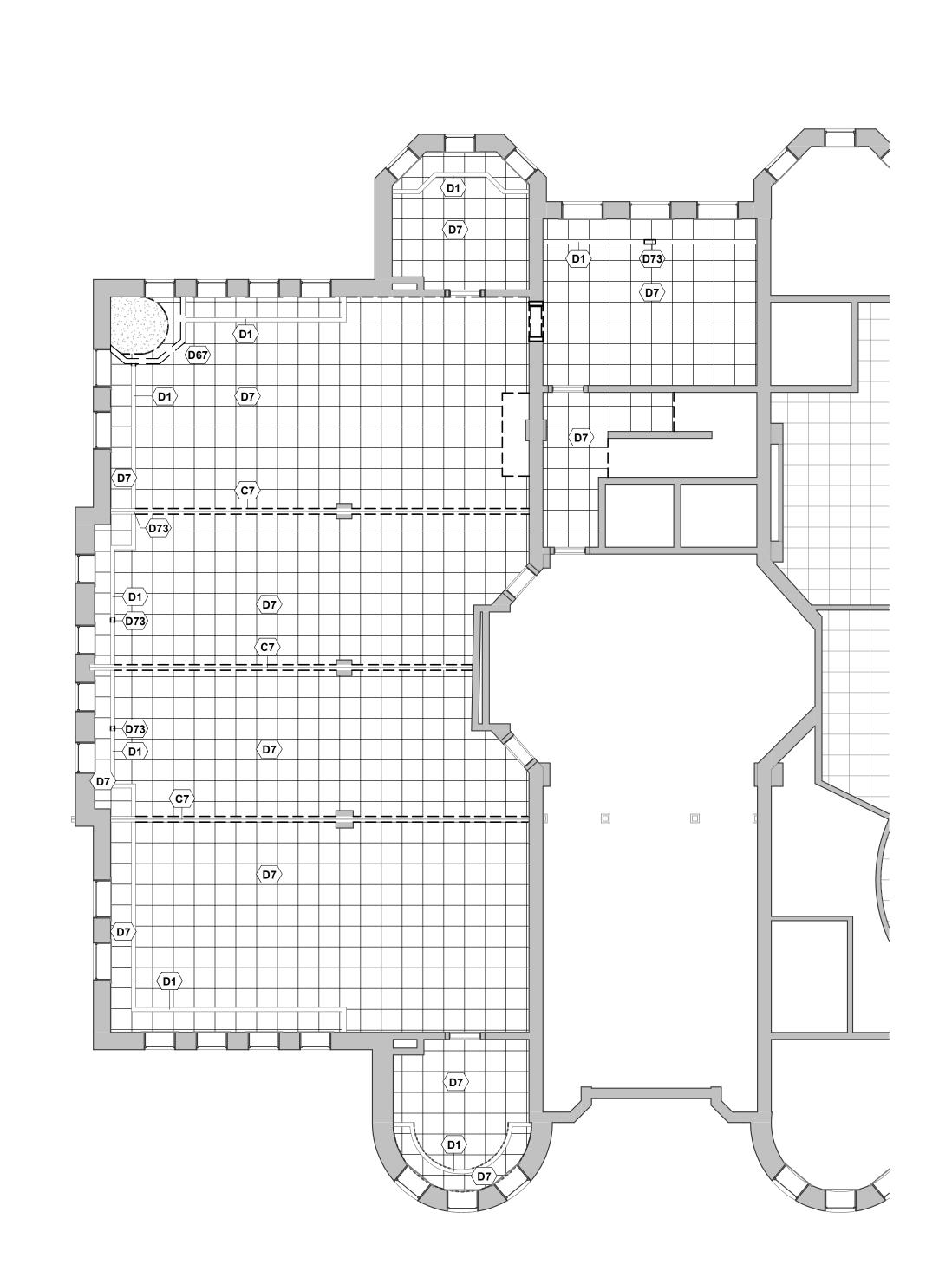
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ΓE	DESCRIPTION
23/2022	BIDDING DOCUMENTS

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SHEET NAME SECOND LEVEL **RCP DEMOLITION** 

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**AD-102.4** 



A2 SECOND LEVEL RCP DEMOLITION

CEILING GRID AND TILE

### **GENERAL CEILING NOTES**

- 1. THIS PLAN SHOWS THE EXTENT OF EXISTING PLASTER AND METAL LATH CEILINGS. THE PLASTER CEILING IS A COMPONENT OF THE EXISTING 2-HR
- FIRE-RESISTIVE RATED FLOOR/CEILING ASSEMBLY.
- 2. INFILL METAL LATH AND PLASTER TO ACHIEVE 2-HR FIRE-RESISTIVE RATING. 3. FIRESTOP ALL NEW PENETRATIONS TO ACHIEVE 2-HR FIRE-RESISTIVE RATING.

PROJECT NAME

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**JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

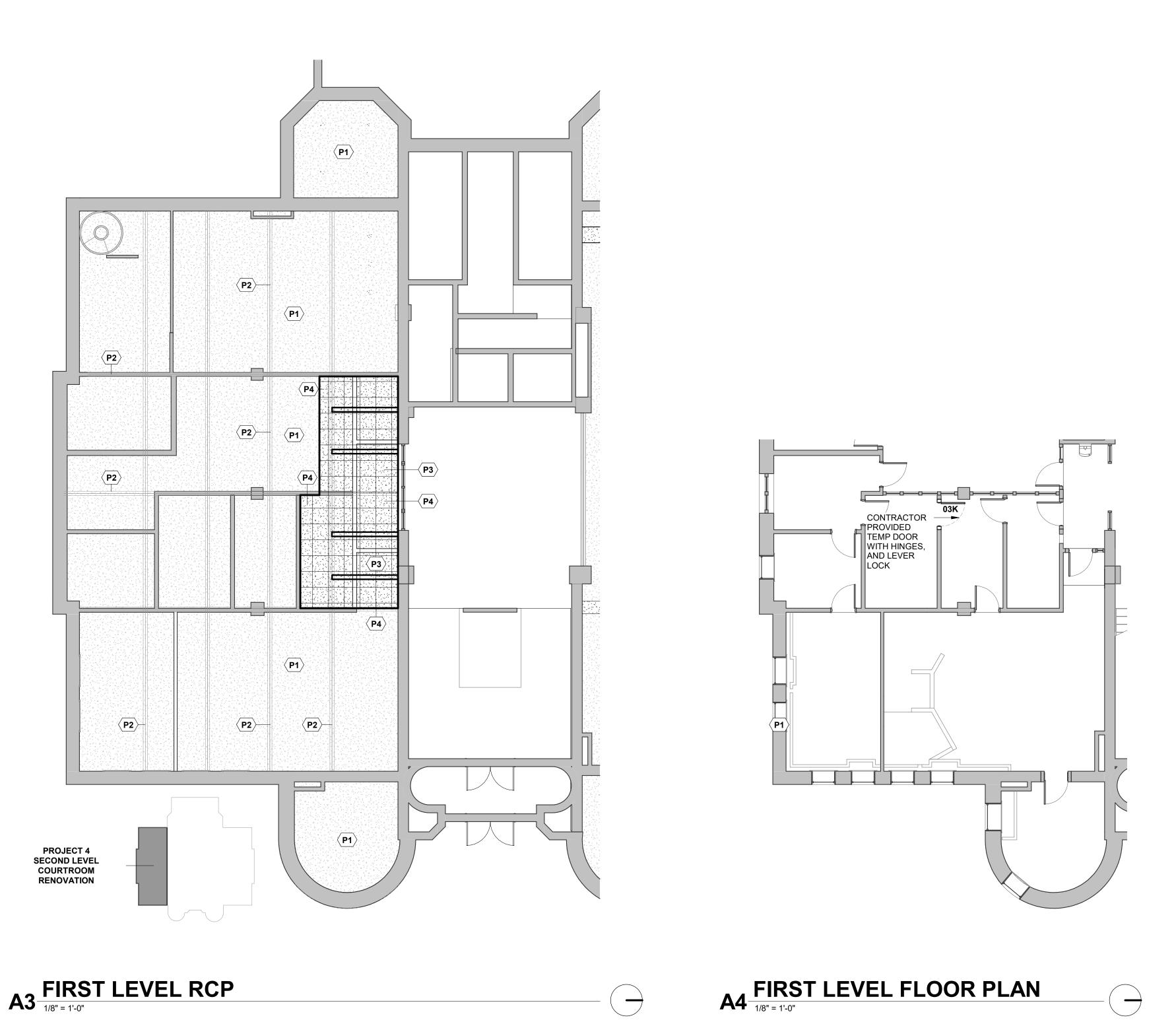
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SHEET NAME

FIRST LEVEL **FLOOR PLAN AND** RCP

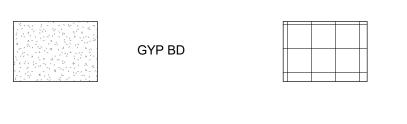
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### RCP GENERAL NOTES

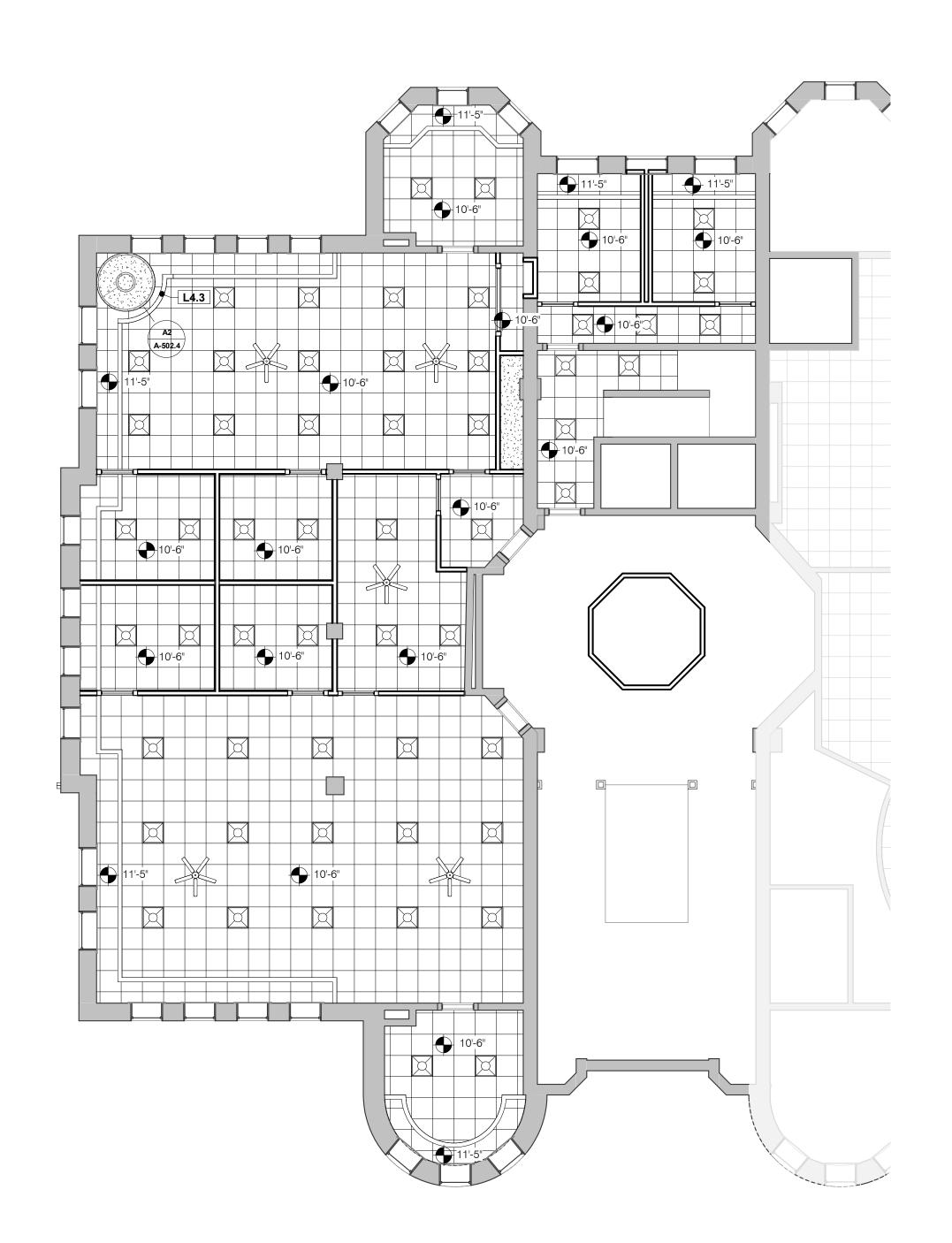
- 1. CONTRACTOR TO REVIEW CEILING LAYOUT AS SHOWN AND NOTIFY DESIGN PROFESSIONAL OF ANY CONFLICTS WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, OR FIRE PROTECTION SYSTEMS, ETC. BEFORE PROCEEDING WITH CONSTRUCTION.
- 2. LOCATE DOWNLIGHTS AND WALL WASHERS IN CENTER OF CEILING TILE. IF CONFLICT OCCURS, NOTIFY DESIGN PROFESSIONAL PRIOR TO PROCEEDING.
- 3. ALL EXPOSED CEILING EDGES SHALL BE FINISHED. 4. CEILINGS SHALL BE CENTERED WITHIN ROOM IN EACH DIRECTION, UNLESS NOTED OTHERWISE.
- 5. CEILING ELEVATIONS ARE REFERENCED FROM THE FINISHED FLOOR OF THE ROOM IN WHICH IT IS INSTALLED, UNLESS NOTED
- 6. FOR CLARITY PURPOSES ONLY CEILING MOUNTED DEVICES, THE LOCATION OF WHICH ARE CRITICAL FOR ARCHITECTURAL COORDINATION PURPOSES, ARE SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF ALL OTHER CEILING MOUNTED DEVICES AS SHOWN ON OTHER DRAWINGS.
- 7. IT IS THE DESIGN INTENT TO INSTALL NEW CEILING TILE AND GRID AT THE SAME ELEVATION AS THE EXISTING, REPAIR ALL GYP BD OR PLASTER WALL SURFACES AFTER DEMOLITION OF EXISTING GRID

### **CEILING LEGEND**



CAN LIGHT SUPPLY DIFFUSER RETURN DIFFUSER 2x2 TROFFER

**CEILING FAN** 

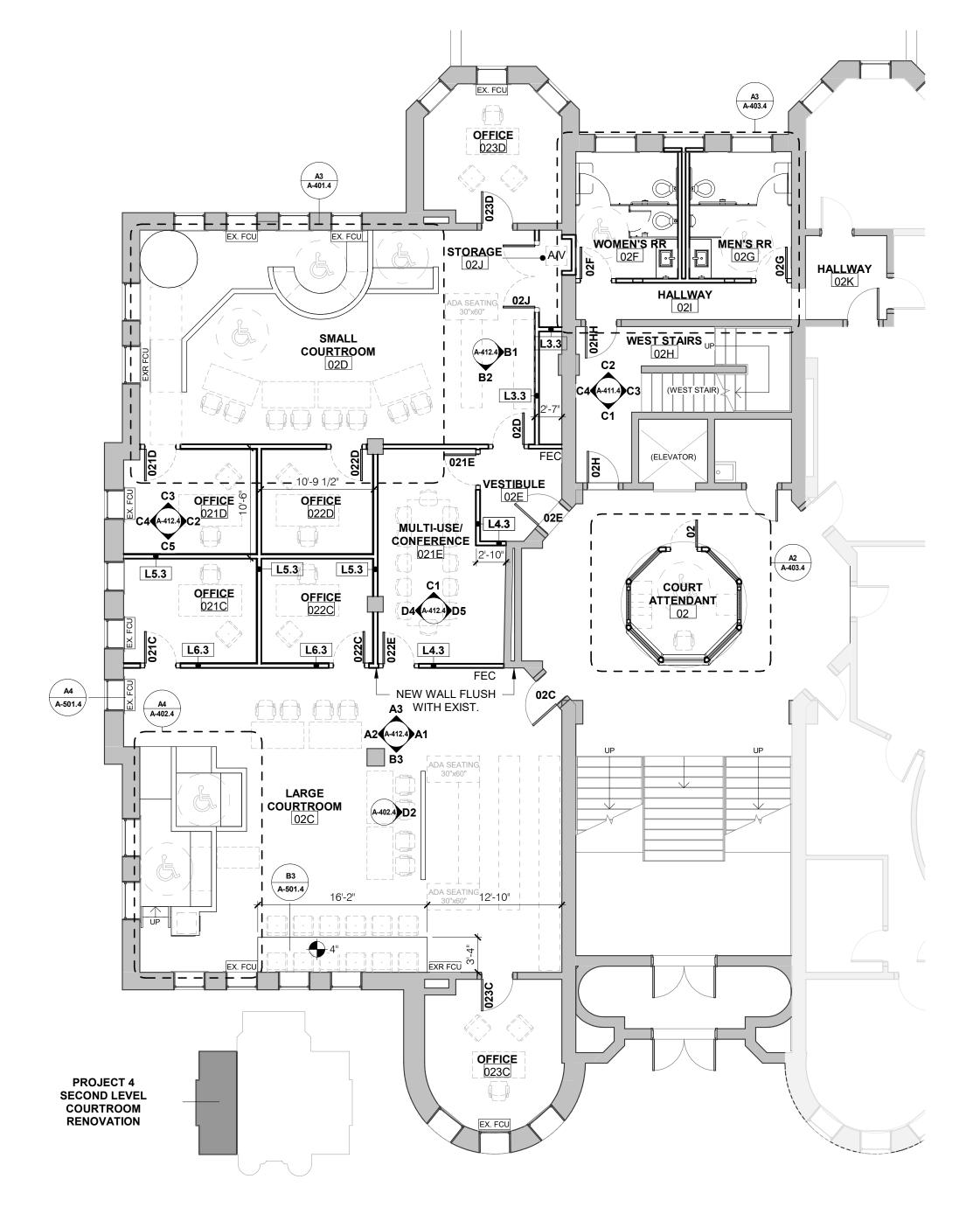


### A1 SECOND LEVEL RCP 1/8" = 1'-0"



### GENERAL FLOOR PLAN NOTES

- 1. ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNLESS OTHERWISE NOTED.
- WALLS TO BE TYPE L4.3, UNLESS OTHERWISE NOTED.
- 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 TO MATCH ADJACENT SURFACE, UNLESS OTHERWISE NOTED IN THE DOCUMENTS.
- 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.
- 5. EXTEND WALL FRAMING AND GYPSUM BOARD TO BOTTOM OF CONCRETE DECK ABOVE, UNLESS NOTED OTHERWISE.
- REFINISH AND REINSTALL EXISTING AND SALVAGED WOOD TRIM AT
- EXISTING AND NEW WALLS AND COLUMNS, INCLUDING WOOD DOOR FRAMES AND CASINGS, WOOD BASEBOARDS AND SHOES, CHAIR RAIL, PICTURE RAIL, AND SILL/LEDGE TRIM. INFILL TRIM AT ALL LOCATIONS WHERE WALLS HAVE BEEN REMOVED.



A4 SECOND LEVEL FLOOR PLAN

1/8" = 1'-0"

 $\rightarrow$ 

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Structural Engineer 112 East Washington St | Unit B lowa City, Iowa 52240 319.333.7850

PROJECT NAME

**JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

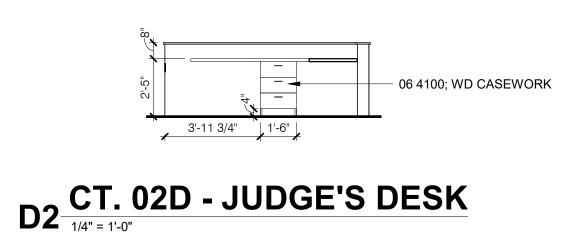
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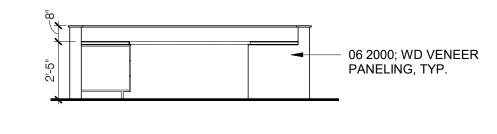
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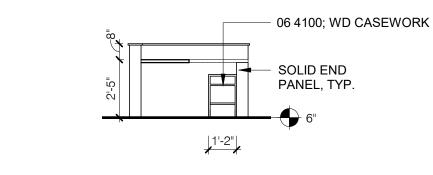
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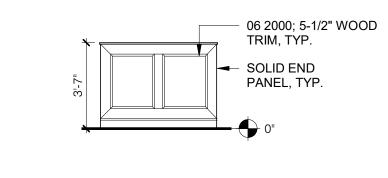
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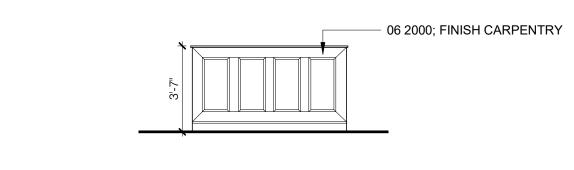


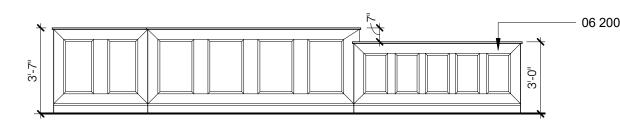


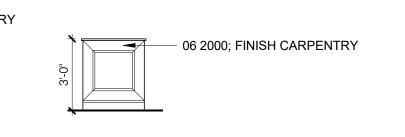
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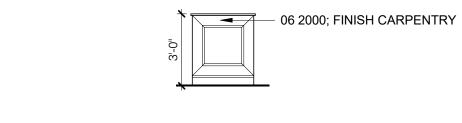
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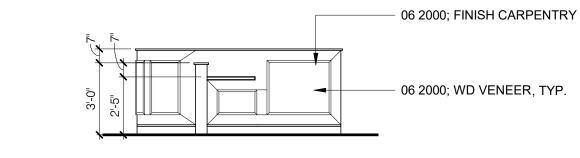
D5 CT. 02D - RAMP









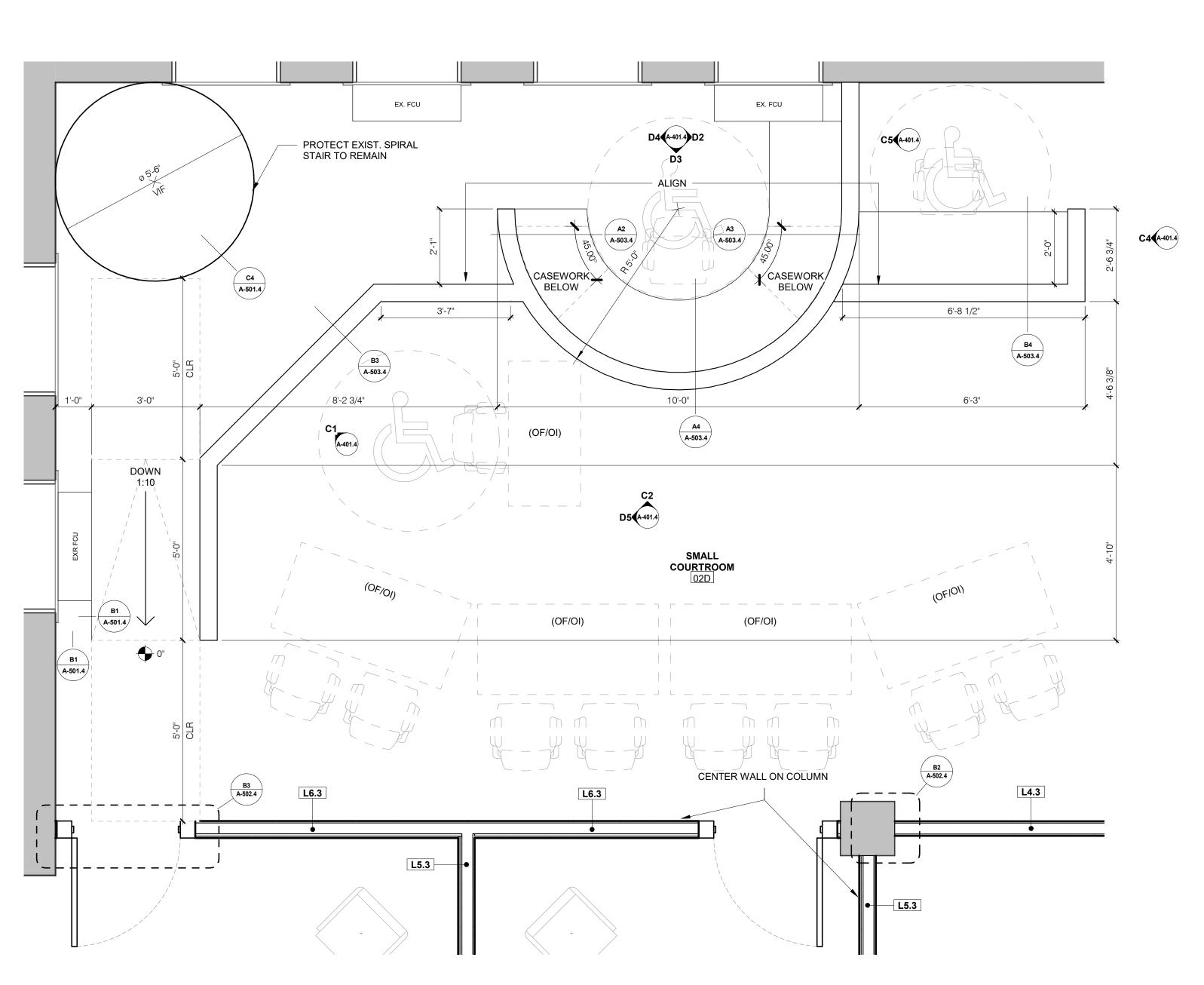


C1 CT. 02D - JUDGE'S STAND

C2 CT. 02D - JUDGE'S STAND

C3 CT. 02D - WITNESS STAND

C4 CT. 02D - WITNESS STAND C5 CT. 02D - WITNESS STAND



A3 ENLARGED PLAN @ JUDGE'S STAND 02D

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PROJECT NAME

**JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street lowa City, Iowa 52240

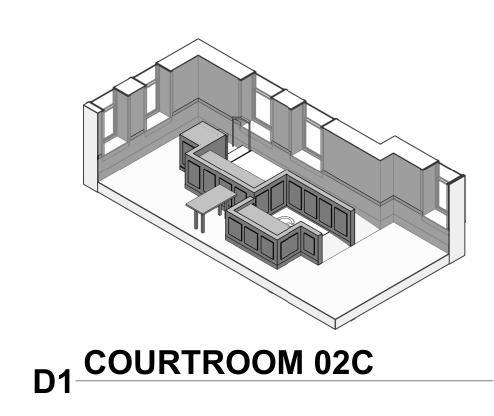
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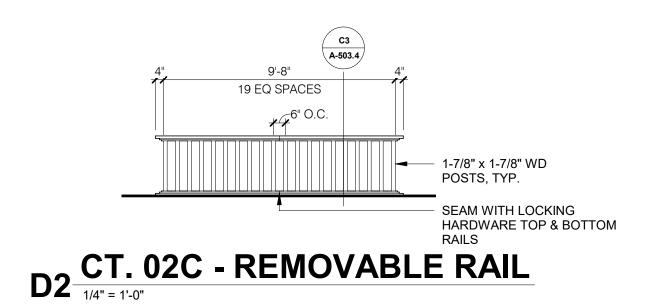
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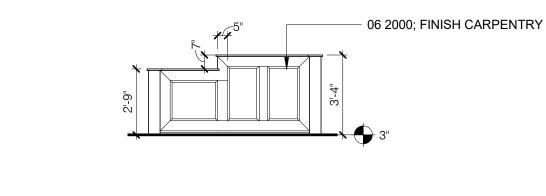
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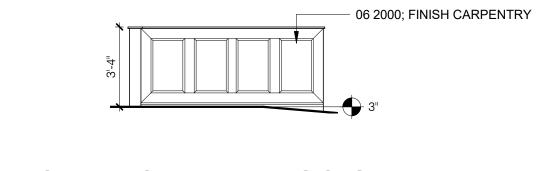
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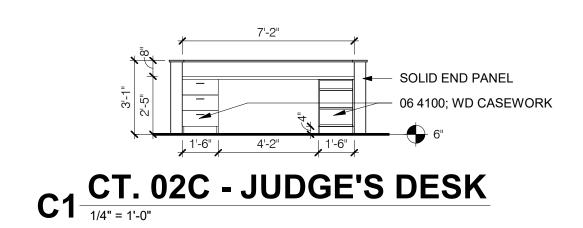


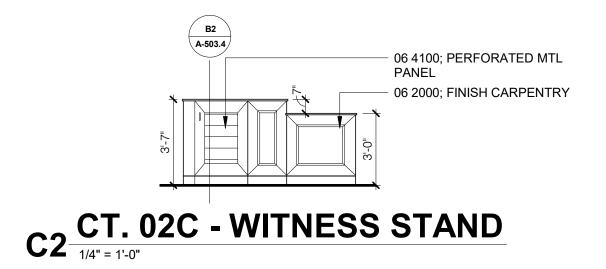


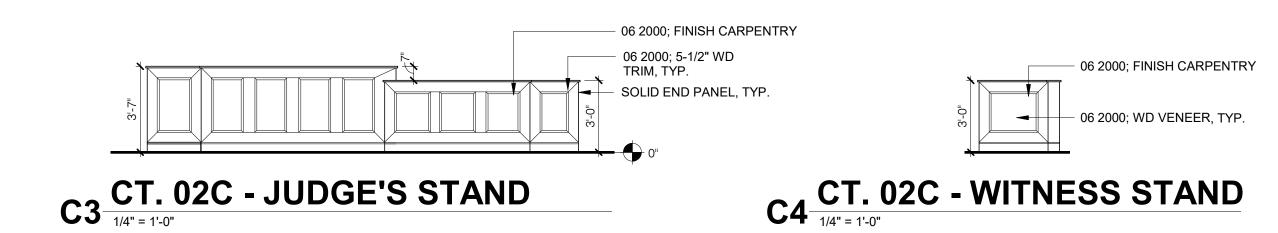


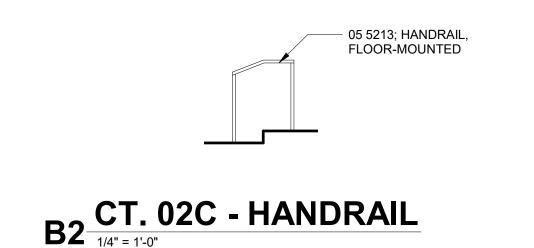


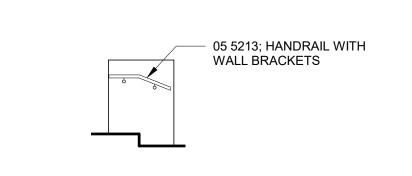




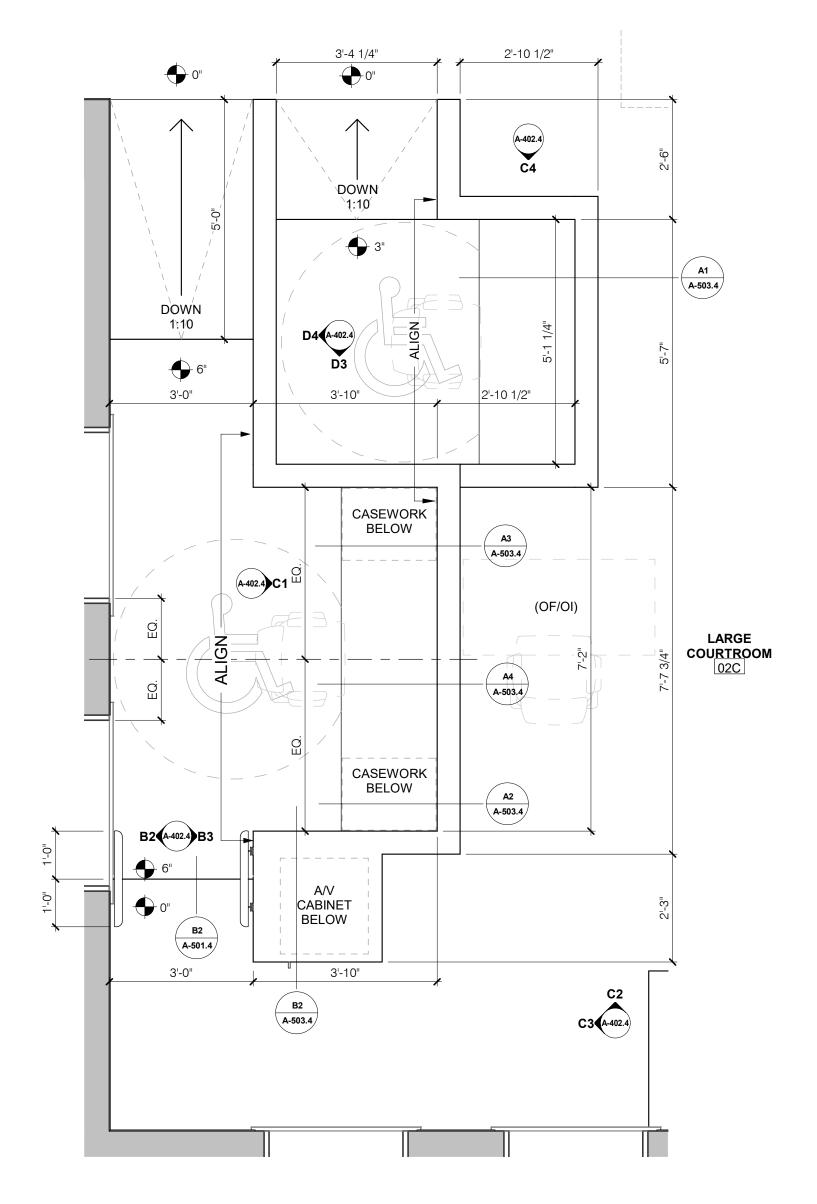








**B3** CT. 02C - HANDRAIL





Structural Engineer 112 East Washington St | Unit B

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PROJECT NAME **JOHNSON** COUNTY COURTHOUSE SECOND LEVEL

COURTROOM **RENOVATION** 

JOHNSON COUNTY

913 South Dubuque Street

Iowa City, Iowa 52240

**PROJECT NO.** 18.112

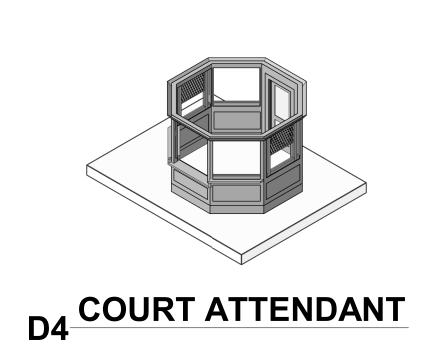
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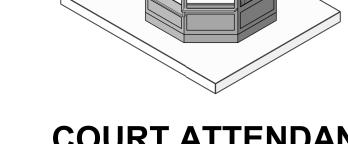
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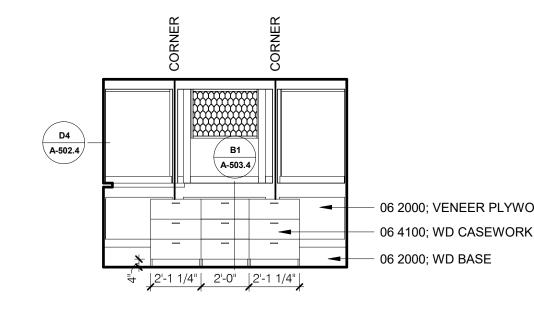
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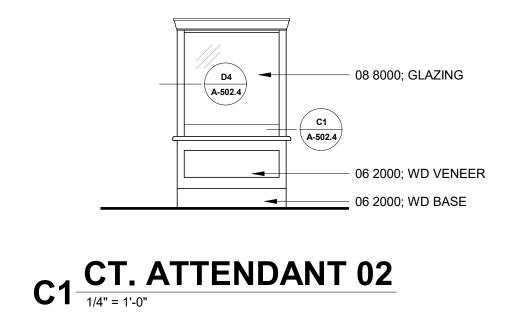
**Neumann Monson Architects** 

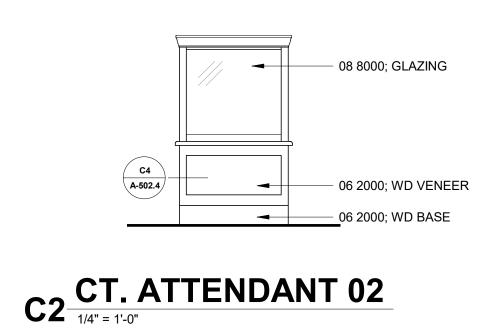


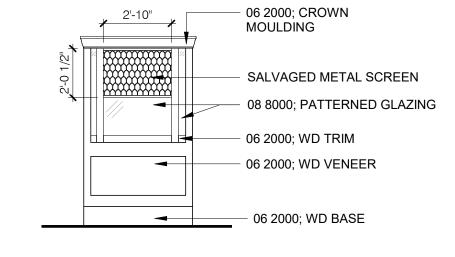


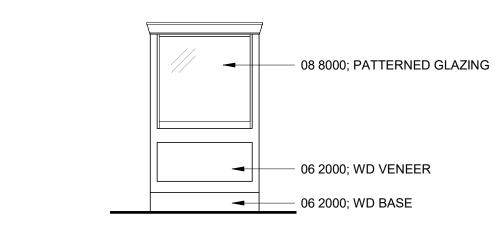


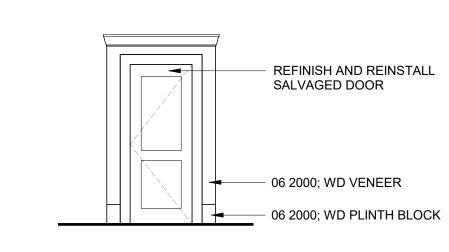
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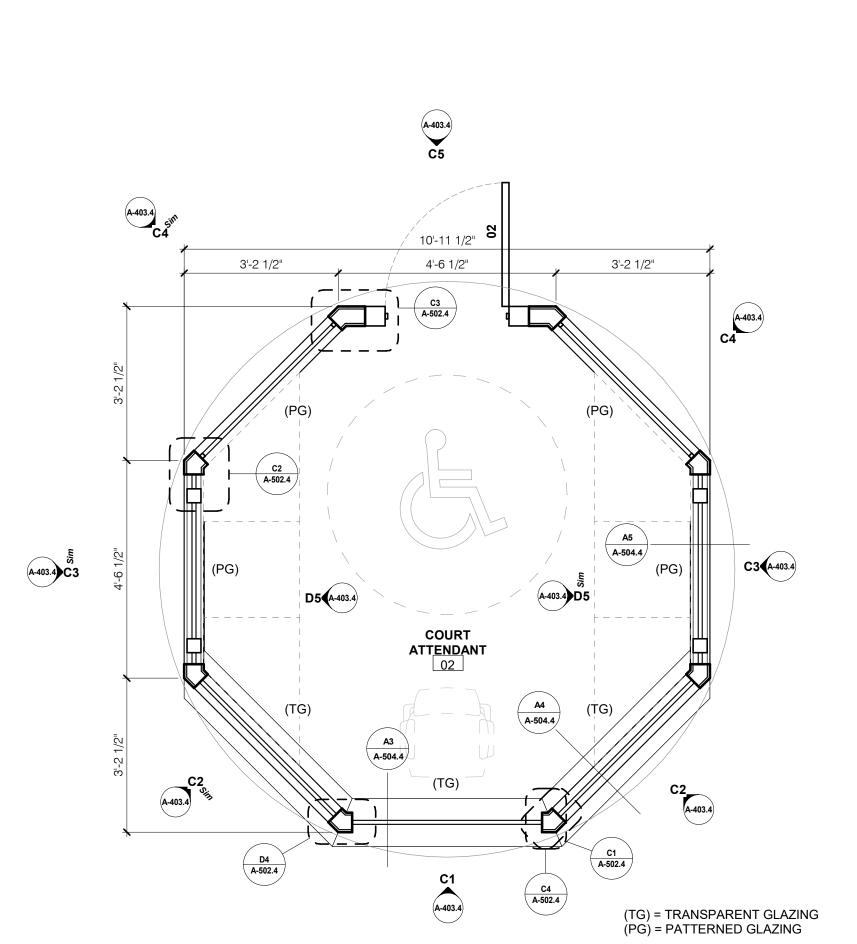


C3 CT. ATTENDANT 02

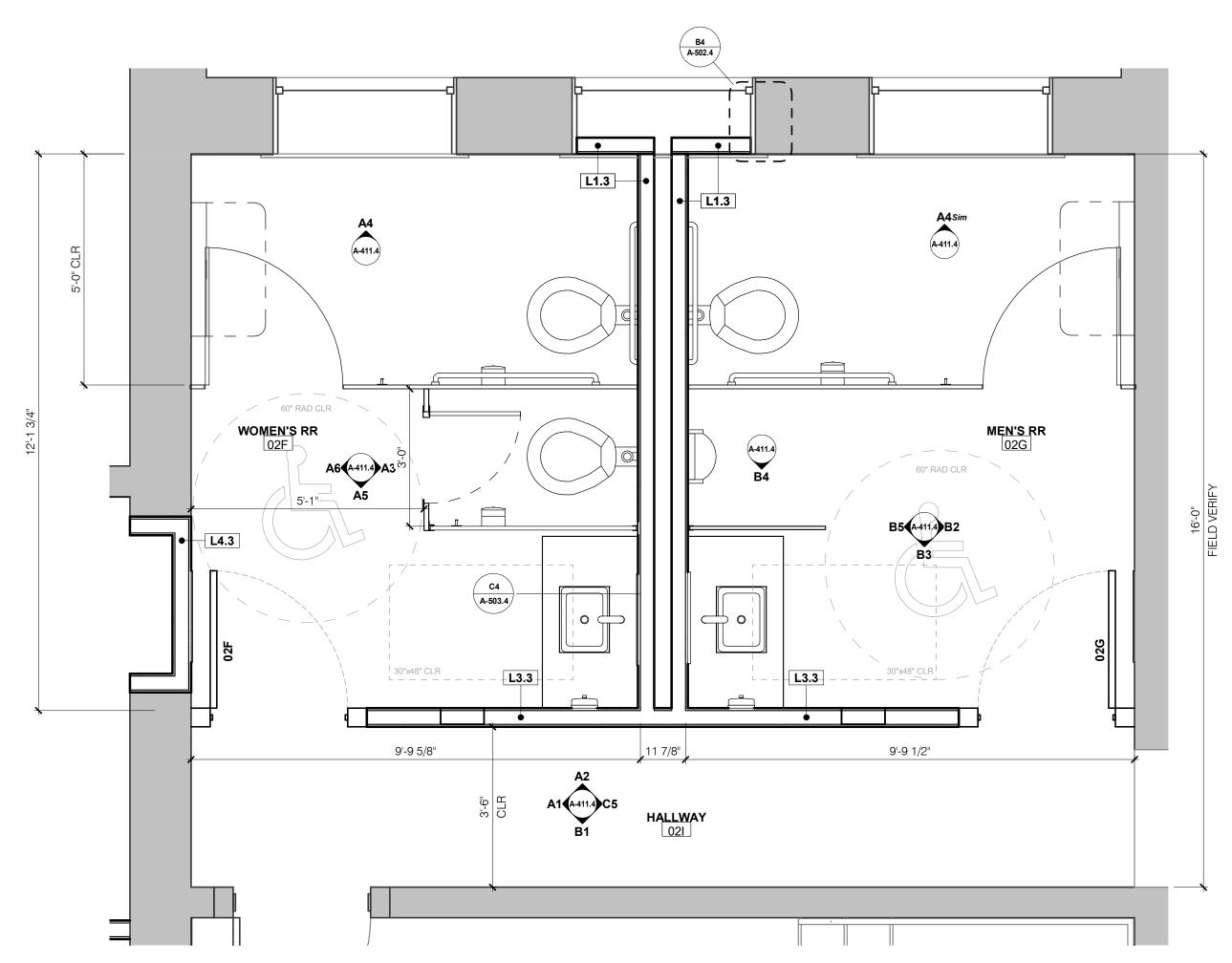
C4 CT. ATTENDANT 02

A3 ENLARGED PLAN @ RR

C5 CT. ATTENDANT 02



A2 ENLARGED PLAN @ COURT ATTENDANT 02



PROJECT NAME

JOHNSON COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

ISSUE				
DATE	DESCRIPTION			
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**ENLARGED PLANS** 

A-403.4

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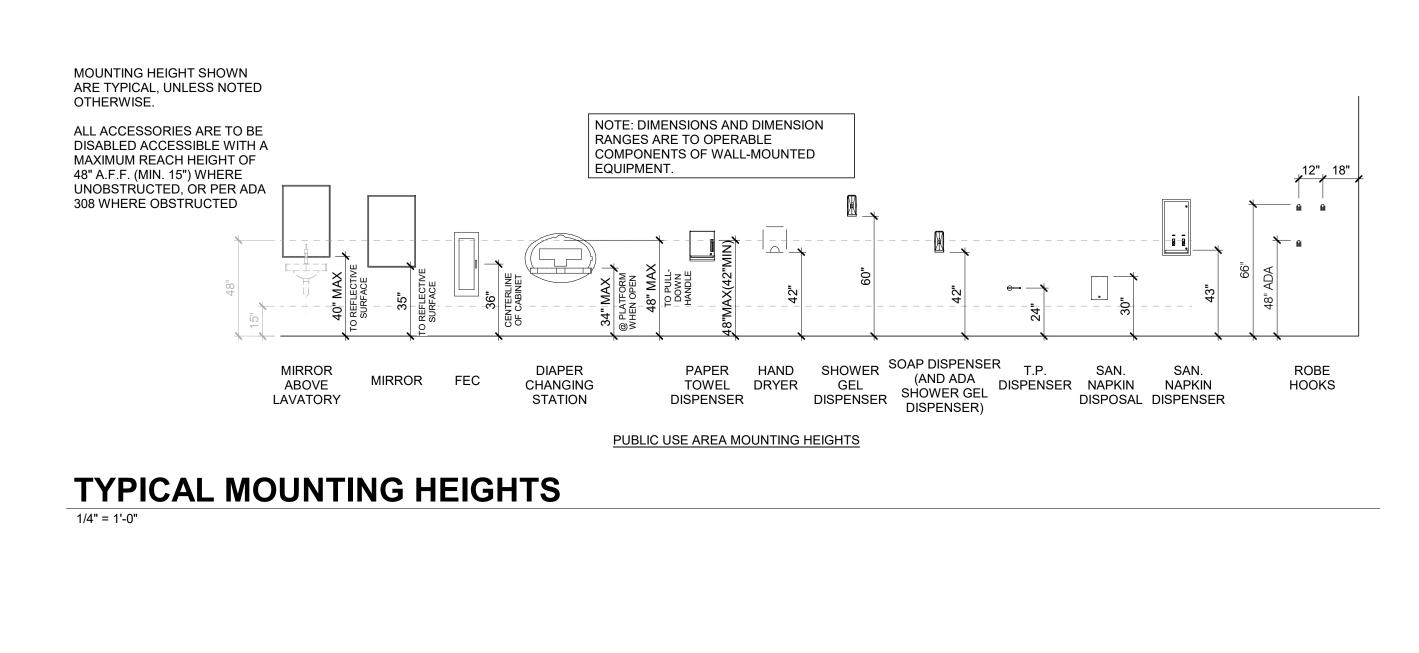
118 East College St lowa City, Iowa 52240 319.248.4600

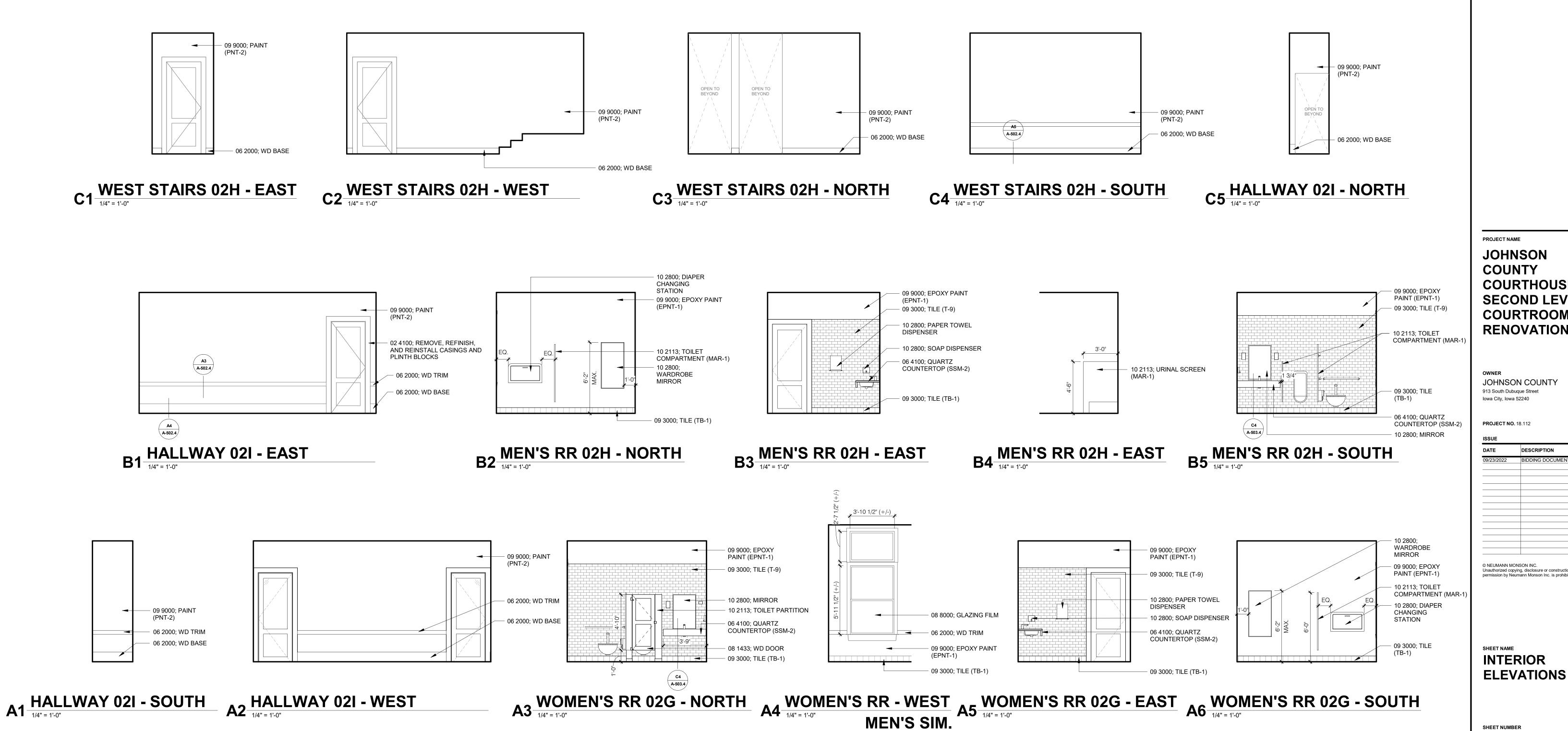
Raker Rhodes Engineering Structural Engineer

lowa City, Iowa 52240

319.333.7850

**Neumann Monson Architects** 221 East College Street | Suite 303



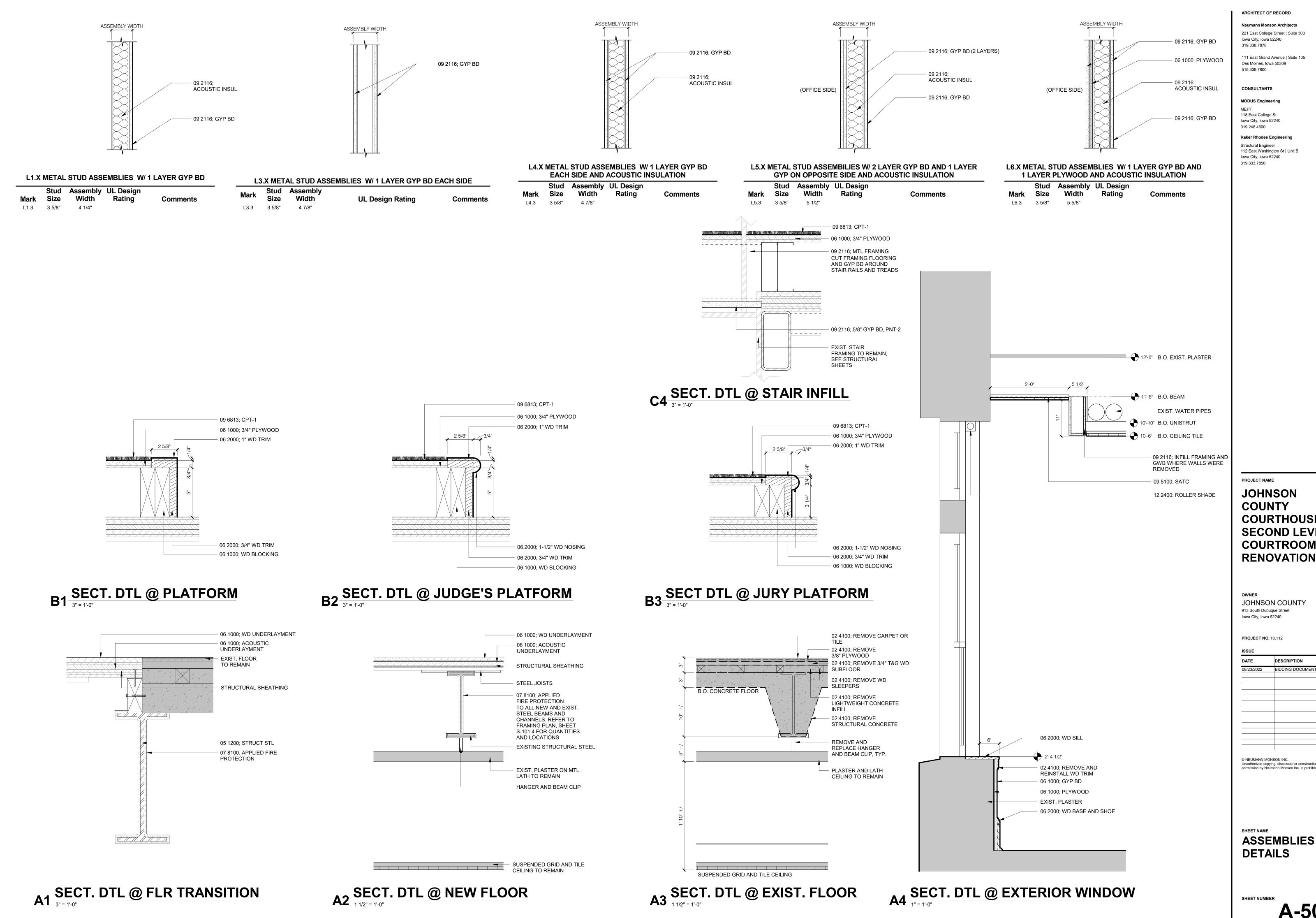


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**Neumann Monson Architects** 221 East College Street | Suite 303 Iowa City, Iowa 52240

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**JOHNSON** COURTHOUSE **SECOND LEVEL** COURTROOM

JOHNSON COUNTY

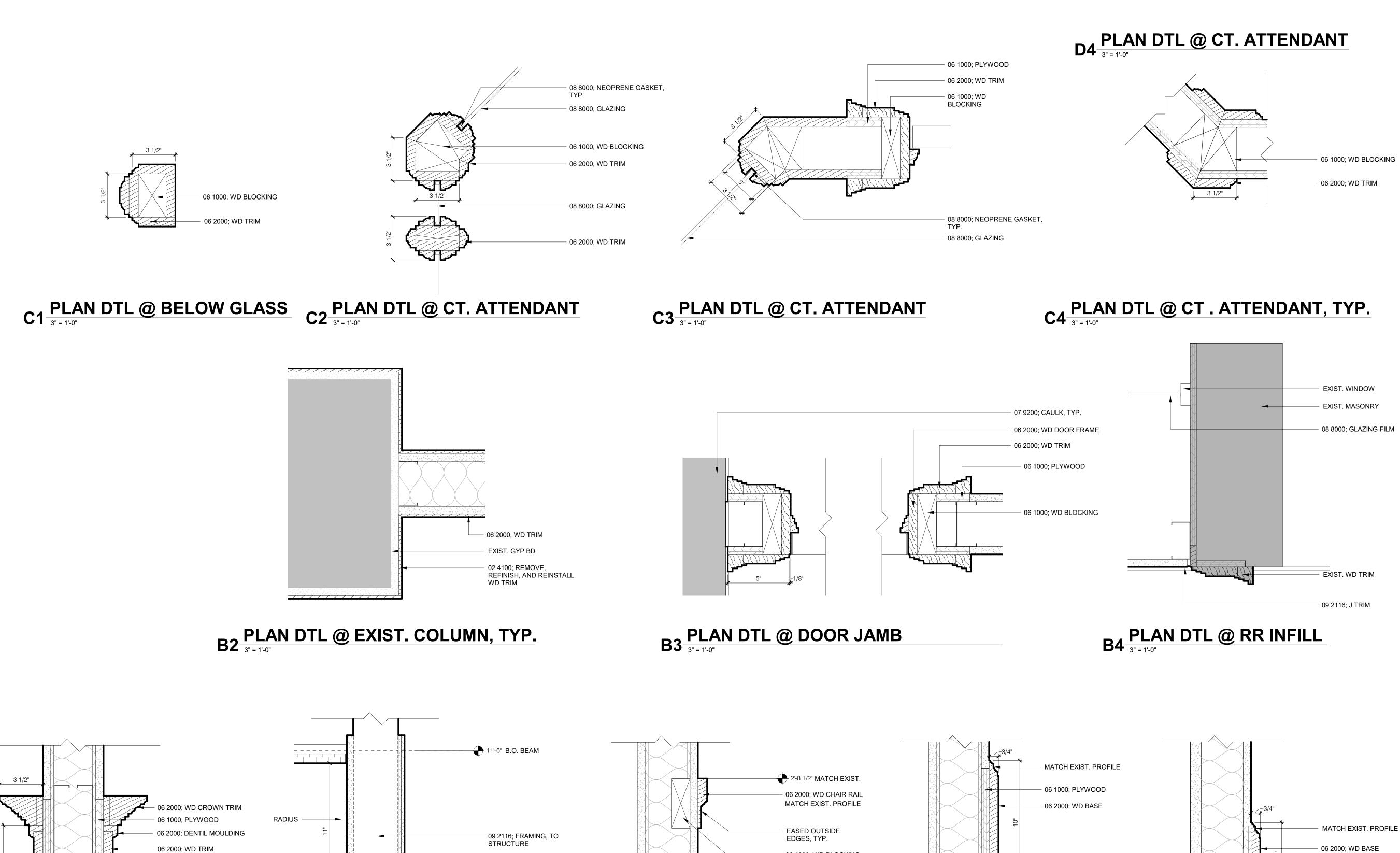
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**ASSEMBLIES AND** 

**DETAILS** 

A-501.4



- 09 2116; GYP BD

10'-6" B.O. CEILING TILE

MATCH WIDTH

A2 SECT. DTL @ HEADWALL

06 1000; WD BLOCKING

A1 SECT. DTL @ DOOR HEAD, TYP.

06 1000; WD BLOCKING

A3 SECT. DTL @ WD RAIL, TYP.

A4 SECT. DTL @ WD BASE, TYP.

A5 SECT. DTL @ WD BASE

3" = 1'-0"

A5 SECT. DTL @ WD BASE

ARCHITECT OF RECORD

Neumann Monson Architects

221 East College Street | Suite 303

lowa City, Iowa 52240

319.338.7878

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

Raker Rhodes Engineering
Structural Engineer
112 East Washington St | Unit B lowa City, lowa 52240
319.333.7850

PROJECT NAME

JOHNSON
COUNTY
COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION

OWNER
JOHNSON COUNTY
913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

ISSUE				
DATE	DESCRIPTION			
09/23/2022	BIDDING DOCUMENTS			

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SHEET NAME

DETAILS

SHEET NUMBER

- 06 1000; PLYWOOD

06 2000; 1/4" ROUND WD TRIM

- 06 2000; 1/4" ROUND WD TRIM

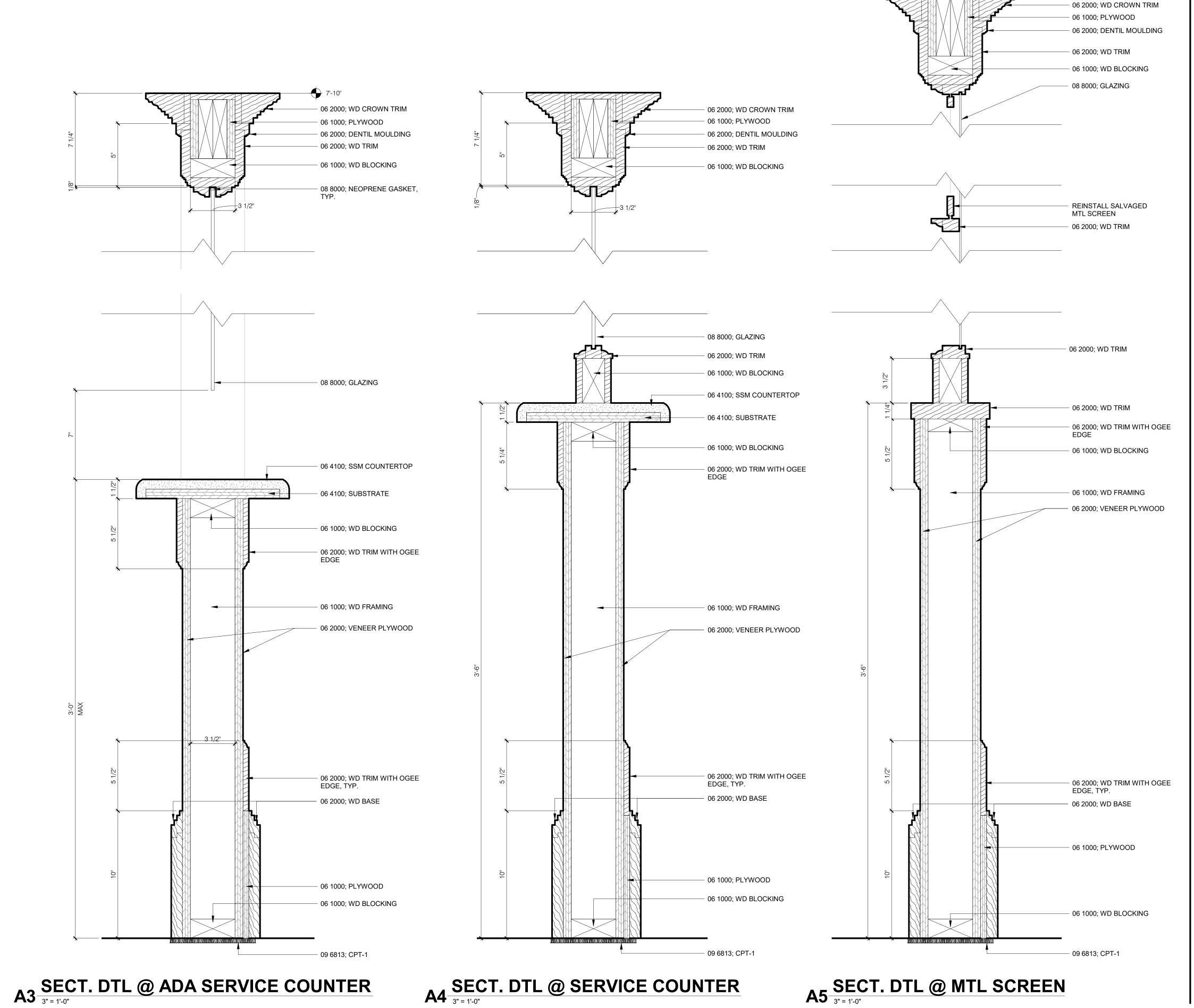
A-502.4

A3 SECT. DTL @ JUDGE'S DESK

A-503.4

ARCHITECT OF RECORD

**Neumann Monson Architects** 



Neumann Monson Architects

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\_\_\_\_

JOHNSON
COUNTY
COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION

OWNER
JOHNSON COUNTY
913 South Dubuque Street

**PROJECT NO.** 18.112

Iowa City, Iowa 52240

	DESCRIPTION
23/2022	BIDDING DOCUMENTS
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SHEET NAME

DETAILS

SHEET NUMBER

A-504.4

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Raker Rhodes Engineering

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221 East College Street | Suite 303

111 East Grand Avenue | Suite 105

ROOM FINISH SCHEDULE PROJECT 4							
ROOM		ROOM			SPECIALTY		
No.	NAME	FLOOR	BASE	WALL	WALL FINISH	CEILING	NOTES
02	COURT ATTENDANT	EXIST.	WD				REFER TO NOTE 6
02C	LARGE COURTROOM	CPT-2	WD	PNT-2		SATC	REFER TO NOTES 1,2,3,4
02D	SMALL COURTROOM	CPT-2	WD	PNT-2		SATC	REFER TO NOTES 1,2,3,4
02E	VESTIBULE	CPT-2	WD	PNT-2		SATC	REFER TO NOTES 1,2,3
02F	WOMEN'S RR	T-1, T-5, T-6, T-7, T-8	TB-1	EPNT-1	T-4	SATC	SEE ELEVATIONS FOR EXTER OF T-9, SEE NOTE 1,4,5
02G	MEN'S RR	T-1, T-5, T-6, T-7, T-8	TB-1	EPNT-1	T-4	SATC	SEE ELEVATIONS FOR EXTER OF T-9, SEE NOTE 1,4,5
02H	WEST STAIRS	T-1, T-3, T-4	WD	PNT-2		SATC	REFER TO NOTES 1
021	HALLWAY	T-1, T-3, T-4	WD	PNT-2		SATC	REFER TO NOTES 1,2,3
02J	STORAGE	CPT-2	WD	PNT-2		SATC	
02K	HALLWAY	EXIST.	EXIST.	PNT-2		EXIST.	
021C	OFFICE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 1,2,3,4
021D	OFFICE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 1,2,3,4
021E	MULTI-USE/ CONFERENCE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 1,2,3
022C	OFFICE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 3
022D	OFFICE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 3
023C	OFFICE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 1,2,4
023D	OFFICE	CPT-2	WD	PNT-3		SATC	REFER TO NOTES 1,2,4

### **ROOM FINISH SCHEDULE GENERAL NOTES:**

A. ALL EXISTING WOOD TRIM SHALL BE REUSED, INCLUDING BASE, RUNNING TRIM, AND DOOR CASINGS; REFINISH ALL WOOD TRIM TO MATCH APPROVED STAIN COLOR. CONTRACTOR'S OPTION TO PROVIDE AND INSTALL NEW TO MATCH HISTORIC PROFILES; FINISH TO MATCH APPROVED STAIN COLOR.

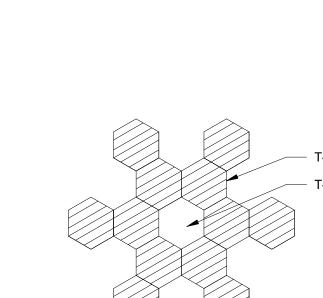
B. FILL AND PATCH ALL DENTS, AND OTHER IMPERFECTIONS IN EXISTING AND NEW GYPSUM BOARD AND PLASTER SURFACES PRIOR TO PAINTING.

C. REMOVE AND REINSTALL ALL ITEMS FROM WALLS FOR PLASTER REFINISHING AND PAINTING, INCLUDING COVER PLATES, VISUAL BOARDS, ETC.

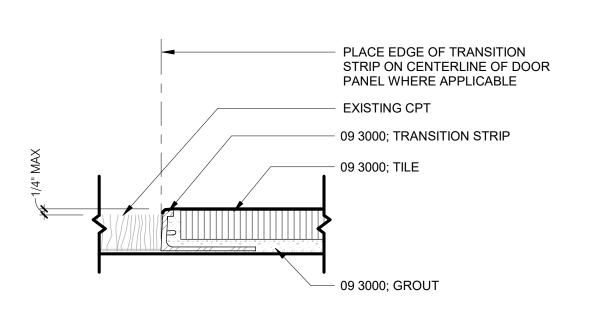
D. REFINISH ALL EXISTING WOOD TRIM TO MATCH APPROVED STAIN COLOR AND FOR UNIFORM APPEARANCE: REMOVE AND REINSTALL ALL HARDWARE, ETC. TO ACHIEVE THE WORK.

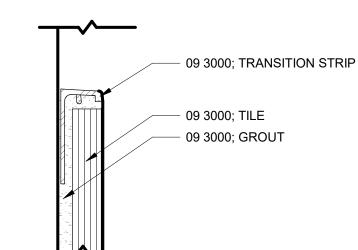
### **ROOM FINISH SCHEDULE SPECIFIC NOTES:**

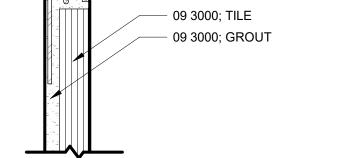
- 1. REPAIR AND PATCH ALL DENTS, CHIPS, AND CRACKS IN EXISTING PLASTER WALL SURFACES AND INSTALL SKIM COAT, MIN. 3MM, FOR UNIFORM APPEARANCE. REMOVE AND REINSTALL ALL PLATES, DEVICES, AND FIXTURES TO ACHIEVE THE WORK. 2.REFINISH ALL WOOD TRIM TO MATCH ARCHITECT APPROVED SAMPLE FOR UNIFORM APPEARANCE; REMOVE AND REINSTALL ALL
- HARDWARE, ETC. TO ACHIEVE THE WORK 3. PROVIDE AND INSTALL WOOD RUNNING TRIM AT NEW WALLS TO MATCH EXISTING PROFILES
- 4. PAINT EXPOSED SIDES OF GYPSUM HEADWALL
- 5. ADD GLAZING FILM OVER ALL EXTERIOR WINDOW GLAZING SEE SECTION 08 8000
- 6. INSTALL CARPET STRIPS UNDER ALL WALLS AND CASEWORK.



C1 FLORAL ACCENT @ RESTROOMS C2 FLORAL ACCENT @ HALLWAY & WEST STAIRS

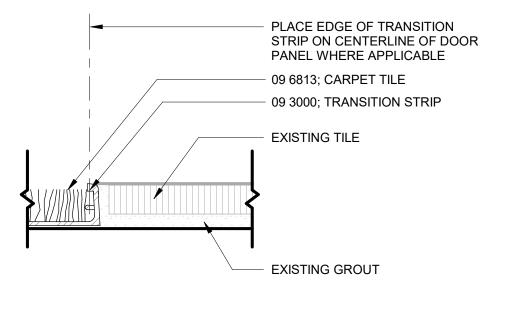


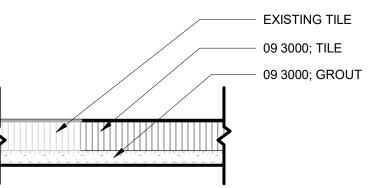








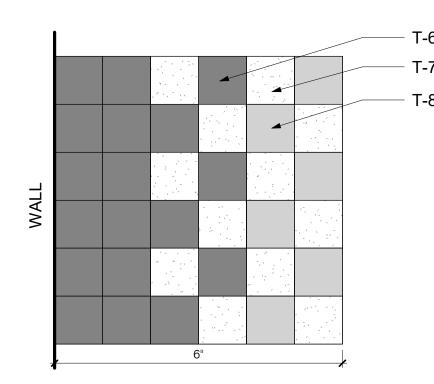




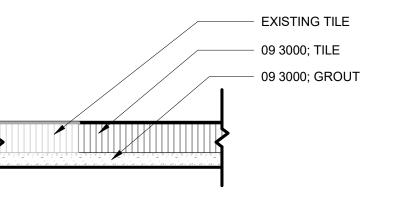
### **DOOR SCHEDULE PROJECT 4 DOOR SIZE DOOR FRAME** WIDTH HEIGHT TYPE MAT GLAZE **TYPE NOTES** MAT No. **COURT ATTENDANT** WD-1 LARGE COURTROOM 3'-0" WD WD-1 WD SMALL COURTROOM 3'-0" 8'-0" WD-1 WD WD-1 **VESTIBULE** WD WOMEN'S RR 3'-0" 8'-0" WD WD-1 WD WD-1 MEN'S RR 3'-0" **WEST STAIRS** 3'-0" WD-1 02H WD 02HH **WEST STAIRS** 3'-0" WD-1 WD STORAGE 6'-0" WD-1 WD 8'-0" 021C OFFICE 3'-0" WD-1 021D OFFICE 3'-0" WD WD-1 WD MULTI-USE/ 3'-0" WD-1 021E WD CONFERENCE 022C WD-1 OFFICE WD 022D OFFICE MULTI-USE/ 3'-0" 022E WD-1 WD CONFERENCE 023C OFFICE OFFICE 3'-0" 023D 8'-0" 2.3

	INTERIOR FINISHES - PROJECT 4						
KEY	MATERIAL	MANUF.	DESC.	COMMENTS			
SSM-2	06 4100- QUARTZ COUNTERTOP	DIRESCO	SUPREME WHITE S100, FINISH: POLISHED, THICKNESS: 3CM	COUNTERTOP IN RESTROOMS			
T-1	09 3000- TILE	DALTILE	KEYSTONE, 1" HEXAGON MOSAIC, COLOR: ALMOND	FIELD TILE AND CENTER OF FLORAL ACCENTS			
T-3	09 3000- TILE	DALTILE	KEYSTONE, 1" HEXAGON MOSAIC, COLOR: BROWNBERRY	9" BORDER AT HALLWAY, WEST STAIRS			
T-4	09 3000- TILE	DALTILE	KEYSTONE, 1" HEXAGON MOSAIC, COLOR: CYPRESS	ACCENT TILE IN FLORAL ACCENT AT HALLWAY, WEST STAIRS			
T-5	09 3000- TILE	DALTILE	KEYSTONE, 1" HEXAGON MOSAIC, COLOR: URBAN PUTTY	ACCENT TILE IN FLORAL DETAIL AT RESTROOMS			
T-6	09 3000- TILE	DALTILE	KEYSTONE, 1"X1" MOSAIC, COLOR: BROWNBERRY	ACCENT TILE IN BORDER DETAIL AT RESTROOMS, THRESHOLD BORDER AT WEST STAIRS			
T-7	09 3000- TILE	DALTILE	KEYSTONE, 1"X1" MOSAIC, COLOR: ALMOND	ACCENT TILE IN BORDER DETAIL AT RESTROOMS			
T-8	09 3000- TILE	DALTILE	KEYSTONE, 1"X1" MOSAIC, COLOR: URBAN PUTTY	ACCENT TILE IN BORDER DETAIL AT RESTROOMS			
T-9	09 3000- TILE	DALTILE	COLOR WHEEL, 3'X6", COLOR: ARCTIC WHITE, MATTE	SPECIALTY WALL FINISH AT RESTROOMS			
TB-1	09 3000-TILE	DALTILE	COLOR WHEEL, 6'X6" COVE BASE, COLOR: ARCTIC WHITE, MATTE	BASE AT RESTROOMS			
CPT-2	09 6813- CARPET TILE	MANNINGTON COMMERCIAL	VARIATIONS 4, COLOR: WIRED 12202, 18"X36", INSTALLATION: BRICK	LOCATIONS NOTED ON FINISH PLAN			
PNT-2	09 9000- PAINT	SHERWIN WILLIAMS	SW 7637 OYSTER WHITE	AT LOCATIONS SCHEDULED			
PNT-3	09 9000- PAINT	SHERWIN WILLIAMS	SW 7036 ACCESSIBLE BEIGE	AT LOCATIONS SCHEDULED			
EPNT-1	09 9000- PAINT	SHERWIN WILLIAMS	EPOXY, SW 7637 OYSTER WHITE	AT LOCATIONS SCHEDULED			
MAR-1	10 2113- TOILET COMPARTMENT	MIDWEST TILE, STONE, & GRANITE	MARBLE, SHADOW STORM	TOILET PARTITIONS			
SHD-1	12 2400- ROLLERSHADE	SWF CONTRACT	CROSSHATCH A300, COLOR: BONE/PLATINUM F305, OPENNESS: 3%	WINDOW TREATMENT ALL THROUGHOUT			

### **FLOOR FINISH LEGEND** 09 6813; CARPET TILE (CPT-2) - 09 3000; TILE (T-1) - 09 3000; TILE (T-3) 09 3000; TILE (T-6)



### BORDER DETAIL @ RESTROOMS



### DOOR SCHEDULE NOTES:

1. NEW DOOR IN EXISTING METAL FRAME. PAINT FRAME 2. REINSTALL SALVAGED DOOR, FRAME, CASINGS AND HARDWARE, INSTALL NEW LEVER HARDWARE 3. REFINISH EXISTING DOOR, FRAME, TRANSOM, AND CASINGS TO MATCH ARCHITECT APPROVED STAIN

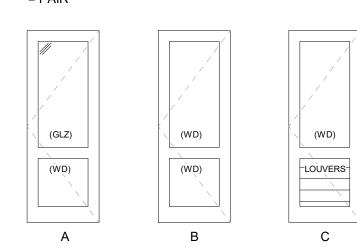
4. PROVIDE STILE AND RAIL WOOD DOORS AT RESTROOM

COMPARTMENTS, PANEL TYPE B

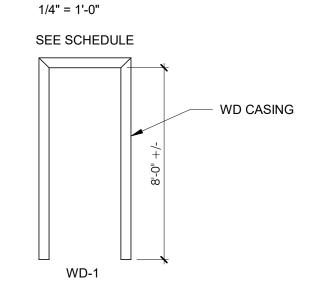
### **GLAZING TYPES:**

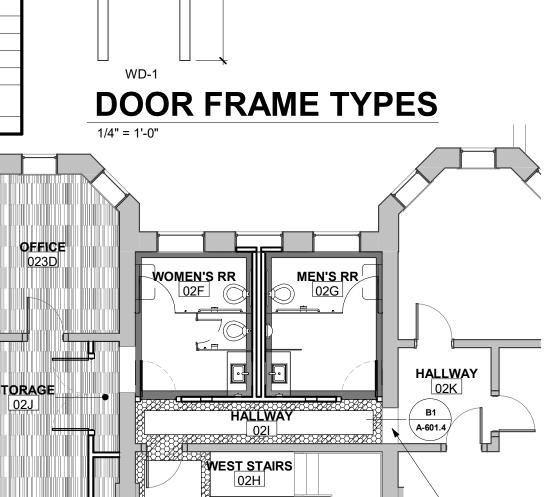
TG = TRANSPARENT GLASS PG = PATTERNED GLASS

SCG = SOUND CONTROL GLASS TRANSPARENT



### **DOOR PANEL TYPES**





A-601.4

ATT<u>END</u>ANT-

PROJECT NAME

**EXISTING** 

**FLOORING** 

 $\rightarrow$ 

**JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

lowa City, Iowa 52240

**PROJECT NO.** 18.112

DESCRIPTION
BIDDING DOCUMENTS

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**FINISH SCHEDULE AND PLAN** 

A3 SECOND LEVEL - FLOOR FINISH PLAN

LARGE COURTROOM

COURTROOM

**OFFICE** 021C

CONFERENCE

GENERAL PARAMETERS
STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.

 $\frac{\text{SPECIAL INSPECTION}}{\text{SPECIAL INSPECTION PROGRAM SHALL CONFORM TO CHAPTER 17 OF THE IBC.}}$ 

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM THE REQUIRED

TESTS AND SPECIAL INSPECTIONS WITH QUALIFICATIONS DESCRIBED PER IBC

SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL,

DWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR.

SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE

STRUCTURAL WORK WAS. TO THE BEST OF THE SPECIAL INSPECTOR'S

KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION

<u>PROGRAM FOOTNOTES</u>

1. THE ITEMS INDICATED ABOVE SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF

OF ALL STRUCTURAL TESTING & INSPECTION REPORTS DIRECTLY TO THE ARCHITECT,

THE IBC BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR

MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS

STRUCTURAL ENGINEER, CONTRACTOR, & BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO

THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER

MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF

2. CONT. - CONTINUOUS SPECIAL INSPECTION. SPECIAL INSPECTOR IS PRESENT CONTINUOUSLY

PERIODIC - PERIODIC SPECIAL INSPECTION. SPECIAL INSPECTOR IS INTERMITTENTLY PRESENT

WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. (IBC SECTION 202)

DPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS (AISC 360 SECTION N5).

5. PERFORM - SPECIAL INSPECTOR SHALL PERFORM THESE TASKS FOR EACH JOINT, CONNECTION,

6. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR

9. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL

USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE

REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION

WHEN & WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. (IBC SECTION 202).

OBSERVE - SPECIAL INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS.

8. CJP WELDS SHALL BE TESTED ULTRASONICALLY OR BY SIMILAR APPROVED METHOD.

& THE SPECIFIC STRUCTURAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES

CHAPTER 17 AND THE PROJECT SPECIFICATIONS.

SP5 SPECIAL INSPECTION PROGRAM:

DESIGNED COMPONENTS.

(IBC SECTION 1704.2.5).

ELEMENT OR MEMBER (AISC 360 SECTION N5).

7. ALL WELDS SHALL BE VISUALLY INSPECTED.

AND FURNISHES EVIDENCE OF COMPLIANCE.

- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF ANY ITEMS.
- DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL OPENINGS, ELECTRICAL COMPONENTS, FLOOR DEPRESSIONS, ETC. NOT SHOWN ON DRAWINGS. COORDINATE LOCATION, SIZE AND REINFORCEMENT OF ALL OPENINGS WITH RESPECTIVE TRADES BEFORE FABRICATION, REPORT ANY DISCREPANCIES AND/OR INTERFERENCE PROBLEMS TO THE ARCHITECT AND STRUCTURAL
- THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE PROVIDED, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS. FRAMING SHEAR WALLS, X-BRACING, AND EXTERIOR WALLS ARE COMPLETE AND HAVE ACHIEVED FINAL DESIGN STRENGTH. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY OVERALL AND TO ALL PORTIONS OF THE BUILDING DURING DEMOLITION, ERECTION AND CONSTRUCTION. TEMPORARY GRAVITY AND LATERAL FORCE BRACING SYSTEMS THAT MAY BE REQUIRED WILL BE DESIGNED BY, AND AT THE EXPENSE OF, THE CONTRACTOR. STRUCTURAL DRAWINGS DO NOT NECESSARILY INDICATE ANY OR ALL REQUIRED TEMPORARY SUPPORT SYSTEMS. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE OR CONTRACTOR DEEMS THE AREA UNDER CONSIDERATION TO BE STABLE.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- RETAINING WALLS AND BASEMENT WALLS WHICH TIE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL DESIGN STRENGTH, UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.
- AS USED IN GENERAL NOTES AND THROUGHOUT STRUCTURAL DRAWINGS, THE TERM "CONTRACTOR" IS DEFINED TO INCLUDE ANY OR ALL OF THE FOLLOWING GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS. CONSTRUCTION MANAGER AND THEIR SUBCONTRACTORS, FABRICATORS, INSTALLERS, DELEGATED DESIGNERS/ENGINEERS AND ERECTORS.
- THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE ICC

	INTERNATIONAL BOILDING CODE, 2010 EDITION.	
DP2	UNIFORM LIVE LOADS: SECOND FLOOR (OFFICE w/ PARTITIONS) CORRIDORS ABOVE 1ST FLOOR STAIRS AND OTHER EXITS TYPICAL HANDRAIL	100 PSF 100 PSF 100 PSF 50 PLF
	00110511504550450	

- CONCENTRATED LIVE LOADS TYPICAL STAIRS (OVER 2 IN. x 2 IN.) TYPICAL HANDRAIL 200 LB ALLOWABLE WALL DEFLECTIONS EXTERIOR (CLADDING DESIGN)
- ALLOWABLE FRAMING VERTICAL DEFLECTIONS U.N.O. FLOOR LIVE LOAD (SEE JOIST LOADING DIAGRAMS FOR ADDITIONAL DEFLECTION CRITERIA)

L/600 ≤ 0.3"

NONE

ASSUMED FUTURE CONSTRUCTION: VERTICAL HORIZONTAL

(BRICK VENEER DESIGN)

- <u>SUBMITTALS</u> GENERAL CONTRACTOR TO PROVIDE A SHOP DRAWING SUBMITTAL LOG ITEMIZING
- SU2 ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. SHOP DRAWING REVIEW BY ENGINEER IS LIMITED TO VERIFYING GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE CONTRACT DOCUMENTS, DIMENSIONAL ERRORS, COORDINATION ERRORS, OR OMISSIONS IN

ALL PROPOSED SUBMITTALS FOR APPROVAL BY STRUCTURAL ENGINEER OF

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING

### • EMBEDDED STEEL ITEMS • STRUCTURAL STEEL

STEEL JOISTS

- SHOP DRAWINGS SHALL INCLUDE CONNECTIONS AS WELL AS SIZE, SPACING, AND GRADE OF ALL MEMBERS. PLANS AND ANY DETAILING NECESSARY FOR
- SU5 IF SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY THE CONTRACTOR. INCLUDING:
  - STRUCTURAL STEEL CONNECTIONS TEMPORARY SHORING
  - SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION, CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS.
- ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BE DESIGNED TO RESIST THE LIVE LOADS INDICATED IN STRUCTURAL NOTES, DEAD LOAD, SELF WEIGHT ANY ADDITIONAL LOADING INDICATED ON PLANS AND DETAILS, SNOW DRIFT, AND A
- ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL INCLUDE ANY RELEVANT TECHNICAL LITERATURE FROM MANUFACTURER, ALSO PROVIDE A CERTIFICATION FROM THE MANUFACTURER SHOWING THE PRODUCT IS IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS
- THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE ANY CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7. CHAPTER 13 AND SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE APPROPRIATE STATE, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR
- SU10 FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

### TYPICAL STRUCTURAL ABBREVIATIONS (PERIODS w/ ABBREVIATIONS MAY BE OMITTED WITHOUT CHANGING MEANING)

&	AND	DET.	DETAIL	L	ANGLE	P.P.	PARTIAL PENETRATION
@	AT	DIA. or Φ	DIAMETER	L.L	LIVE LOAD	P.S.I.	POUNDS PER SQUARE INCH
Ä.B.	ANCHOR BOLT	DIAG.	DIAGONAL	L.L.H.	LONG LEG HORIZONTAL	P.S.F.	POUNDS PER SQUARE FOOT
A.C.I.	AMERICAN CONCRETE INSTITUTE	DIM.	DIMENSION	L.L.V.	LONG LEG VERTICAL	P.C.F.	POUNDS PER CUBIC FOOT
A.E.S.S.	ARCHITECTURALLY EXPOSED	DN.	DOWN	L.P.	LOW POINT	PL	PLATE
7 t.L.O.O.	STRUCTURAL STEEL	DWGS.	DRAWINGS	LB.	POUND	PLBG.	PLUMBING
A.I.S.C.	AMERICAN INSTITUTE OF STEEL	DVV 00.	DI WINGO	L.S.H.	LONG SIDE HORIZONTAL	i LBO.	LOMBING
A.I.O.O.	CONSTRUCTION	(E)	EXISTING, V.I.F.	L.S.V.	LONG SIDE VERTICAL	QTY.	QUANTITY
A.S.T.M.	AMERICAN SOCIETY FOR	E.F.	EACH FACE	LONG.	LONGITUDINAL	QII.	QUANTITI
A.S. I .IVI.	TESTING AND MATERIALS	E.F. E.J.	EXPANSION JOINT	LT. GA.	LIGHT GAGE	R or RAD.	DADILIC
4 D.D.				LI. GA.	LIGHT GAGE		REFERENCE
ADD.	ADDENDUM	E.W.	EACH WAY	MED	MEGUANIGAL ELECTRICAL	REF.	
ADD'L.	ADDITIONAL	EA.	EACH	M.E.P.	MECHANICAL, ELECTRICAL,	REINF.	REINFORCING
ALT.	ALTERNATE	EL.	ELEVATION		PLUMBING	REQ'D.	REQUIRED
	APPROXIMATELY	ELEC.	ELECTRICAL	M.S.J.C.	MASONRY STANDARDS JOINT	REV.	REVISION
ARCH.	ARCHITECTURAL	EQ.	EQUAL		COMMITTEE	RRE	RAKER RHODES ENGINEERING
		EXT.	EXTERIOR	MAX.	MAXIMUM		
B.P.	BASE PLATE			MECH.	MECHANICAL	S.D.I.	STEEL DECK INSTITUTE
B/	BOTTOM OF	F.S.	FAR SIDE	MFR.	MANUFACTURER	S.J.I.	STEEL JOIST INSTITUTE
BLDG.	BUILDING	FIN.	FINISH	MIN.	MINIMUM	S.O.G.	SLAB ON GRADE
BRG.	BEARING	FM	FOUNDATION MISCELLANEOUS	MISC.	MISCELLANEOUS	SCHED.	SCHEDULE
		FNDN.	FOUNDATION	MTL.	METAL	SIM.	SIMILAR
C.I.P.	CAST IN PLACE	FT	FOOT/FEET			SPA.	SPACING/SPACES
C.J.	CONSTRUCTION JOINT			N.D.S.	NATIONAL DESIGN	SPECS.	SPECIFICATIONS
C.M.U.	CONCRETE MASONRY UNIT	GA.	GAGE		SPECIFICATION	STD.	STANDARD
C.P.	COMPLETE PENETRATION	GALV.	GALVANIZED	N.I.C.	NOT IN CONTRACT	STRUC.	STRUCTURAL
CL	CENTERLINE	GC.	GENERAL CONTRACTOR	N.S.	NEAR SIDE		
CLG.	CEILING	<b>.</b>	OLIVEI O GIVINO I GIV	N.T.S.	NOT TO SCALE	T/	TOP OF
CLR.	CLEAR	H.P.	HIGH POINT	11.1.0.	NOT TO COMEL	TYP.	TYPICAL
CONC.	CONCRETE	HORIZ.	HORIZONTAL	O.C.	ON CENTER	U.N.O.	UNLESS NOTED OTHERWISE
CONN.	CONNECTION	HT.	HEIGHT	O.S.H.A.	OCCUPATIONAL SAFETY AND	0.14.0.	ONLEGO NOTED OTHERWISE
CONST.	CONSTRUCTION	111.	TILIGITI	O.S.11.A.	HEALTH ADMINISTRATION	VERT.	VERTICAL
CONST.	CONTINUOUS	I.B.C.	INTERNATIONAL BUILDING CODE	O.W.J.	OPEN WEB JOIST	VLKT. V.I.F.	VERIFY IN FIELD (FIELD VERIFY)
CONT.	CONTINUOUS		INCH/INCHES	O.W.J. OPNG.	OPEN WEB JOIST OPENING	V.I.F.	VERIFT IN FIELD (FIELD VERIFT)
CONTR.	CONTRACTOR	IN.				/	WITH
CONTR.	CONTRACTOR	INT.	INTERIOR	OPP.	OPPOSITE	w/	
D D 4	DEFORMED DAD ANOLIOD	14	KID	D 0 1		w/o	WITHOUT
D.B.A.	DEFORMED BAR ANCHOR	K or k	KIP	P.C.I.	PRECAST/PRESTRESSED	W.F.	WIDE FLANGE
D.L.	DEAD LOAD				CONCRETE INSTITUTE	W.P.	WORKPOINT
						W.W.F.	WELDED WIRE FABRIC

VERIFICATION AND INSPECTION	/ TASK
STEEL & DECKING - CONFORM TO AISC 360 REQUIREMENTS  1. VERIFY COMPLIANCE OF DECK & ALL DECK ACCESSORIES WITH CONSTRUCTION	PERFO
DOCUMENTS, INCLUDING PROFILES, PROPERTIES & THICKNESS.	PERFO
2. INSPECTION TASKS PRIOR TO WELDING:	
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	PERFOR
B. MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	
C. MATERIAL IDENTIFICATION (TYPE/GRADE).	OBSER
D. WELDER IDENTIFICATION SYSTEM.  E. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):	OBSER'
• JOINT PREPARATION	OBSER
<ul> <li>DIMS. (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> </ul>	
TACKING (TACK WELD QUALITY & LOCATION)     BACKING TYPE & FIT (IF APPLICABLE)	
F. CONFIGURATION & FINISH OF ACCESS HOLES.	OBSER'
G. FIT-UP OF FILLET WELDS:	OBSER'
• DIMS. (ALIGNMENT, GAPS AT ROOT)	OBSER
<ul> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY &amp; LOCATION)</li> </ul>	
3. INSPECTION TASKS DURING WELDING:	
A. STRUCTURAL STEEL & COLD-FORMED STEEL DECK:	
1) COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	PERFO
2) MULTIPASS FILLET WELDS.	PERFO
3) SINGLE-PASS FILLET WELDS > 5/16".	PERFO
4) PLUG & SLOT WELDS.	PERFO
5) SINGLE-PASS FILLET WELDS ≤ 5/16".	OBSER'
6) FLOOR & ROOF DECK WELDS.	OBSER'
B. USE OF QUALIFIED WELDERS.	OBSER'
C. CONTROL & HANDLING OF WELDING CONSUMABLES: • EXPOSURE CONTROL • PACKAGING	OBSER'
D. NO WELDING OVER CRACKED TACK WELDS.	OBSER'
E. ENVIRONMENTAL CONDITIONS:	OBSER'
• WIND SPEED WITHIN LIMITS • PRECIPITATION & TEMP.	
F. WPS FOLLOWED: • SETTINGS ON WELDING EQPT. • TRAVEL SPEED	OBSER'
SELECTED WELDING MATERIALS     PREHEAT APPLIED	
• SHIELDING GAS TYPE/FLOW RATE • PROPER POSITION (F, V, H, OH) • INTERPASS TEMP. MAINTAINED (MIN / MAX)	
G. WELDING TECHNIQUES:	OBSER'
INTERPASS & FINAL CLEANING	
<ul> <li>EACH PASS WITHIN PROFILE LIMITATIONS</li> <li>EACH PASS MEETS QUALITY REQUIREMENTS</li> </ul>	
4. INSPECTION TASKS AFTER WELDING.	
A. WELDS CLEANED.	OBSER
B. SIZE, LENGTH, & LOCATION OF WELDS.	PERFOR
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA:	PERFOR
CRACK PROHIBITION     WELD SIZE     WELD / BASE-METAL FUSION     UNDERCUT	
CRATER CROSS SECTION     POROSITY     WELD PROFILES	
D. ULTRASONIC TESTING TO BE PERFORMED ON COMPLETE JOINT	PERFOR
PENETRATION WELDS PER AWS D1.1-2010.	
E. ARC STRIKES.	PERFOR
F. K-AREA.	PERFOR
G. BACKING & WELD TABS REMOVED (IF REQ'D.).	PERFOR
H. REPAIR ACTIVITIES.	PERFOR
I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.      INSPECTION TASKS PRIOR TO BOLTING:	PERFOR
A. MFR. CERTS. AVAILABLE FOR FASTENER MATERIALS.	PERFOR
B. FASTENERS MARKED IN ACCORDANCE W/ ASTM RQMTS.	OBSER
C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE,	OBSER
BOLT LENGTH, EXCLUDED THREADS).	
D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	OBSER
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE RQMTS.	OBSER
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION	OBSER
PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLIES & METHODS USED.	
G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS & OTHER	OBSER
FASTENER COMPONENTS.	OBOLIN
6. INSPECTION TASKS DURING BOLTING:	
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES & WASHERS (IF REQ'D) ARE POSITIONED AS REQ'D.	OBSER
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE	OBSER
PRETENSIONING OPERATION.	
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	OBSER
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE w/ THE RCSC	OBSER
SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	
7. INSPECTION TASKS AFTER BOLTING:	OBSER
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNS.	PERFOR
9. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING OF DECK/SHEATHING	
A. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE.	OBSER
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.	OBSER
C. PROPER STORAGE FOR MECHANICAL FASTENERS.	OBSER
10. INSPECTION TASKS DURING MECHANICAL FASTENING OF DECK/SHEATHING	
A. FASTENERS ARE POSITIONED AS REQUIRED.	OBSER\
B. FASTENERS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RQMTS.	OBSER\
11.INSPECTION TASKS AFTER MECHANICAL FASTENING OF DECK/SHEATHING:	
A. CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT, SIDELAP &	PERFOR
PERIMETER FASTENERS.  B. VEDIEV DEDAIDS & DOCUMENT ACCEPTANCE/DE JECTION OF FASTENERS	DEDES
B. VERIFY REPAIRS & DOCUMENT ACCEPTANCE/REJECTION OF FASTENERS.  OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	PERFOR
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:	
A. END CONNECTIONS - WELDING OR BOLTED	DEDIOD
	PERIOD
B. BRIDGING - HORIZONTAL OR DIAGONAL.  SPRAYED FIRE-RESISTANT MATERIALS	PERIOD
1. PHYSICAL AND VISUAL TESTS  A CONDITION OF SUBSTDATES	DEDICE
A. CONDITION OF SUBSTRATES	PERIOD
B. THICKNESS OF APPLICATION	PERIOD
C. DENSITY IN POUNDS PER CUBIC FOOT	PERIOD
D. BOND STRENGTH ADHESION/COHESION	PERIOD
	B==
E. CONDITION OF FINISHED APPLICATION	PERIO

VERIFICATION AND INSPECTION

 $\frac{\text{STEEL FRAMING NOTES}}{\text{STEEL FRAMING WORK SHALL COMPLY WITH CHAPTER 22 OF THE IBC.}}$ 

STEEL FRAMING MATERIALS: W-SECTIONS, CHANNELS

ASTM A992 FY=50,000 PSI SF2.2 TUBULAR STEEL ASTM A500 GR FY=50,000 PSI SF2.3 ANGLES, PLATES FY=50,000 PSI SF2.4 PIPES ASTM A53 GR B FY=35,000 PSI SF2.5 HEADED ANCHOR SHEAR STUDS ASTM A108, GR C-1010 THRU C-1020

MIN. YIELD STRENGTH FY=65,000 PSI SF2.6 STEEL JOIST SJI K-LH SERIES WELDING ELECTRODES

STEEL ERECTION SHALL COMPLY WITH ALL OSHA, STATE, LOCAL, AND INDUSTRY STANDARD REGULATIONS. IN ADDITION, AT THE END OF THE WORK DAY, ALL COLUMNS MUST BE FRAMED WITH BEAMS AND/OR GIRDERS IN TWO DIRECTIONS, OR ADEQUATELY GUYED OR BRACED IN BOTH DIRECTIONS. TEMPORARY GUYING/BRACING IS THE RESPONSIBILITY OF THE ERECTOR (DESIGN AND

MIN. TENSILE STRENGTH FY=65,000 PSI

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC STEEL CONSTRUCTION MANUAL, AISC 360-16 INCLUDING COMMENTARY, AND THE

ALL BOLTS FOR STEEL CONNECTIONS TO BE INSTALLED PER AISC 360 AND RCSC. SF5.1 ALL BOLTS TO BE ASTM A325-N U.N.O. BOLTS USED IN STEEL JOIST CONSTRUCTION MAY BE ASTM A307 ALL BOLTS SHALL BE INSTALLED SNUG-TIGHT U.N.O. SF5.4 ALL BOLTS IN BRACED FRAME CONNECTIONS TO BE PRETENSIONED U.N.O. STEEL FRAMING NOTES

**FREQUENCY** 

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDED PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.

WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM, U.N.O. ALL WELDING FOR STRUCTURAL STEEL CONNECTIONS TO BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1

FOR COMPLETE JOINT PENETRATION WELDS, WELDS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 40° F.

WELDING TO JOIST WEB MEMBERS IS PROHIBITED. WELDING TO JOIST BOTTOM CHORDS IS PROHIBITED WITHOUT THE APPROVAL OF THE ENGINEER. WITH THE SOLE EXCEPTION OF JOIST BRIDGING. WALL PANEL BRACING, GIRDER BRACING AND ALL OTHER WELDED ATTACHMENTS SHALL BE MADE TO JOIST TOP CHORDS ATTACHMENTS MADE TO JOIST TOP CHORD SHALL BE MADE ONLY AT JOIST PANEL

SF10 ALL STEEL BEAMS, COLUMNS AND BRACING SHALL RECEIVE A SINGLE COAT OF SHOP APPLIED PRIMER, WITH THE FOLLOWING EXCEPTIONS SF10.1 TOP FLANGE OF BEAMS RECEIVING HEADED STUDS SHALL NOT BE SF10.2 GALVANIZED BEAMS SHALL NOT BE PRIMED.

SF10.3 STEEL THAT IS TO RECEIVE SPRAY-APPLIED FIREPROOFING (SEE ARCH. FOR LOCATIONS) SHALL NOT BE PRIMED OR SHALL BE PRIMED IN ACCORDANCE w/ ASTM E736 AND UL 263.

SF11 HOT-DIP GALVANIZE STEEL FOR THE FOLLOWING CONDITIONS: SF11.1 STEEL ELEMENTS PERMANENTLY EXPOSED TO WEATHER. SF11.2 STEEL ELEMENTS LOCATED IN UNCONDITIONED SPACES.

SF11.3 STEEL ELEMENTS LOCATED OUTSIDE THE BUILDING THERMAL ENVELOPE. SF11.4 STEEL ELEMENTS LOCATED IN AREAS WITH HIGH HUMIDITY SE11.5 ALL LINTEL ASSEMBLIES LOCATED IN EXTERIOR WALLS SF11.6 WHERE PIECES REQUIRING GALVANIZATION ARE PART OF A LARGER ASSEMBLY, THE HOT-DIPPING PROCESS IS TO OCCUR AFTER COMPLETE FABRICATION OF THE ASSEMBLY.

SF12 CONNECTIONS: SF12.1 WHERE CONNECTIONS ARE NOT SHOWN. THE CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE REQUIREMENTS OF AISC SPECIFICATIONS FOR THE SHEAR CAPACITIES SHOWN BELOW:

	MINIMUM SHEAR CAPACITIES (SERVICE LOADS)						
SHAPE	SHEAR CAPACITY	SHAPE	SHEAR CAPACITY				
W8	16 KIPS	W14	28 KIPS				
W10	16 KIPS	W16	41 KIPS				
W12	28 KIPS	W18	53 KIPS				
,		•					

SF12.2 ANY CONNECTION REACTIONS EXCEEDING THE ABOVE MINIMUM SHEAR CAPACITIES ARE NOTED, IN KIPS, AT EITHER END OF THE MEMBER ON THE STRUCTURAL FRAMING PLANS. NO CONNECTION SHALL USE LESS THAN 2 ROWS OF BOLTS.

SF12.4 ALL CONNECTIONS SHALL SATISFY THE REQUIREMENTS OF AISC AND SF12.5 MOMENT CONNECTIONS ARE INDICATED ON DRAWINGS BY A DARKENED TRIANGLE ON THE END OF THE MEMBER TO BE MOMENT CONNECTED. IF THE BEAM END MOMENT IS NOT SHOWN, DEVELOP PLASTIC MOMENT CAPACITY OF MEMBER ABOUT MAJOR AXIS. WHERE POSSIBLE, USE SHEAR TAB WEB CONNECTION WITH MOMENT CONNECTION. SF12.6 U.N.O., POCKET BEAMS 8" MIN, INTO MASONRY AND BEAR ON 3/4" GROUT.

MIN. ANCHOR WITH (2) 3/4" A x 1'-4" HEADED ANCHOR BOLTS. SLOT HOLES IN BEAM FLANGE 2" PARALLEL TO BEAM SPAN. GROUT POCKETS SOLID. SF12.7 AT STEEL CONNECTIONS WITH POST INSTALLED ANCHORS, TH CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE HOLE DIAMETERS COMPLY WITH THE MANUFACTURER'S RECOMMENDED DRILL BIT DIAMETER

SF13.1 STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO RESIST THE LOADS INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE (SJI) STANDARDS. THE STEEL JOIST MANUFACTURER SHALL BE APPROVED BY THE SJI. JOIST MANUFACTURER SHALL VERIFY THAT CONNECTION METHODS CONFORM TO THE JOIST DESIGN.

SF13.2 ALL JOISTS SHALL BE CAPABLE OF SUPPORTING A 250 POUND CONCENTRATED LOAD FROM THE TOP OR BOTTOM CHORD WITHIN A CHORD PANEL WITHOUT THE ADDITION OF A TRANSFER STRUT. SF13.3 ROOF JOISTS SHALL BE DESIGNED FOR A MAXIMUM NET UPLIFT AS SHOWN IN STRUCTURAL NOTES. SF13.4 STRUCTURAL ENGINEER OF RECORD TO BE NOTIFIED OF ANY BENT OR DAMAGED MEMBERS OF BAR JOISTS. SF13.5 FIELD WELD ALL JOISTS, INCLUDING BOLTED JOISTS, TO SUPPORTS WITH

A MINIMUM OF (2) 1/8" FILLET WELDS, 2-1/2" LONG. BOLTED JOISTS SHALL USE STANDARD WASHERS UNDER BOTH HEAD AND NUT. SE13.6 PROVIDE BRIDGING IN CONFORMANCE WITH SJI STANDARDS SF13.7 DOUBLE DIAGONAL BRIDGING TO BE FIELD WELDED TO TOP AND BOTTOM CHORD OF ADJACENT JOIST. SINGLE DIAGONAL BRIDGING TO BE FIELD WELDED TO BOTTOM OF CHORD OF EXTERIOR JOIST AND TO TOP OF CHORD OF ADJACENT JOIST. HORIZONTAL BRIDGING TO BE FIELD WELDED LONG TOP & BOTTOM CHORDS OF ADJACENT JOISTS SF13.8 WHERE JOIST BRIDGING INTERFERES WITH DUCTWORK, OPENINGS, ETC.

RELOCATE & ADD BRIDGING TO EACH SIDE OF OBSTRUCTION. SF13.9 CONTRACTOR TO PROVIDE STEEL SHIM STACK AS REQ'D TO ACHIEVE FULL BEARING CONTACT FOR JOISTS BEARING ON SLOPED SURFACES. SF13.10 JOISTS AT OR NEAR COLUMNS ARE NOT DESIGNED TO SATISFY OSHA 29 CER 1926 757 (a) (3) JOISTS HAVE NOT BEEN DESIGNED FOR STABILITY OR TO SUPPORT WEIGHT WITHOUT BRIDGING INSTALLED. DO NOT WALK, STAND, OR ALLOW LOADS ON JOISTS UNTIL ADEQUATELY STABILIZED. ALWAYS STABILIZE JOISTS AT OR NEAR COLUMN LINES BEFORE RELEASING HOISTING CABLES USING APPROVED ERECTION METHODS.

SEE JOIST SHOP DRAWINGS FOR ADDITIONAL INFORMATION ON BRIDGING

AND STABILIZING REQUIREMENTS. SF14 WHERE OPENINGS FOR DUCTS, MECHANICAL EQUIPMENT, ETC., OCCUR IN FLOOR SLAB, PROVIDE BOX-OUTS ON TOP OF METAL DECKING PRIOR TO PLACING CONCRETE SLAB. AFTER INSTALLATION OF MECHANICAL DUCTS & ETC. (THRU BOX-OUTS). PLACE REMAINDER OF CONCRETE FLOOR.

CAPACITY OF THE STUDS

<u>COLD-FORMED STEEL STUDS</u> COLD-FORMED STEEL WORK SHALL CONFORM WITH CHAPTER 22 OF THE IBC. COLD-FORMED STEEL STUDS SHALL BE C-SHAPED STUDS FORMED FROM STRUCTURAL QUALITY STEEL HAVING A MINIMUM YIELD STRENGTH OF 33 KSI FOR 18 AND 20 GA, AND 50 KSI FOR 12, 14, AND 16 GA, AND CONFORM TO THE REQUIREMENTS OF ASTM A568 AND A1008. STUDS SHALL BE OF THE SIZE, GA., AND SPACING SHOWN ON THE DRAWINGS

ALL COLD-FORMED STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653, G-60 GALVANIZED FINISH. VERTICAL DEFLECTION OF COLD FORMED FLOOR JOISTS SHALL NOT EXCEED L/360

OR 1/4", WHICHEVER IS LESS. LOAD BEARING STUDS SHALL HAVE HORIZONTAL STRAPPING ON BOTH FACES AT 4'-0" O.C. PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ADEQUATE FOR DEVELOPMENT OF THE FULL MOMENT

FOR LOAD BEARING STUDS, STUDS SHALL BE FULLY SEATED IN TRACK. TRACK SHALL BE OVERSIZED TO PROVIDE FULL STUD BEARING

SCREWS SHALL BE ELCO DRIL-FLEX, HILTI KWIK-FLEX, OR AN APPROVED

COLD-FORMED STEEL WELDING SHALL CONFORM WITH AWS D1.3. COLD-FORMED SIZES SHOWN ARE FOR PRICING PURPOSES ONLY. FINAL DESIGN AND CONNECTIONS BY COLD-FORMED DESIGNER.

U.N.O., PROVIDE (1) 0.157" DIA. PAF @16" O.C. (1 1/4" EMBED) @ BOTTOM WALL TRACKS FOR WALLS ≤ 6". PROVIDE (2) 0.157" DIA. PAFS @ 16" O.C. (1 1/4" EMBED) @ BOTTOM WALL TRACKS FOR WALLS > 6".

 $\frac{\text{WOOD FRAMING NOTES}}{\text{WOOD FRAMING WORK SHALL COMPLY WITH CHAPTER 23 OF THE IBC.}}$ 

THE QUALITY OF WOOD PRODUCTS AND FASTENERS, AND THE DESIGN OF LOAD-SUPPORTING MEMBERS AND CONNECTIONS, SHALL CONFORM TO THE STANDARDS SPECIFIED IN THE <u>AWC NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION</u> AND ITS SUPPLEMENT <u>DESIGN VALUES FOR WOOD</u>

COORDINATE WOOD NAILERS AND BLOCKING LOCATIONS WITH NEED AND REQUIREMENTS OF OTHER WORK INVOLVED

PROVIDE SOLID BLOCKING BETWEEN SAWN JOISTS AT ALL SUPPORTS AND AT MIDSPAN OF JOISTS EXCEEDING 8 FEET (8FEET ON-CENTER MAXIMUM

CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO IBC SECTIONS 2308.5.9.

SALVAGED LUMBER SHALL BE GRADED BY AN APPROVED GRADING AGENCY PRIOR TO USE AND SHALL MEET THE MINIMUM STRESSES SHOWN BELOW. WOOD FRAMING MATERIALS (MINIMUM DESIGN VALUES):

 $\begin{array}{ll} \underline{\text{WF8.1}} & \underline{\text{SAWN LUMBER:}} \\ \text{WF8.1b} & \text{FRAMING MEMBERS (BEAMS, JOISTS, BLOCKING, ETC.)} \end{array}$ DOUGLAS FIR-LARCH NO. 2 Fb = 900 PSI Ft = 575 PSIFv = 180 PSI Fcp = 625 PSI E = 1,600,000 PSI

WOOD STRUCTURAL PANELS WF8.1 WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF U.S. PRODUCT STANDARD PS1 FOF CONSTRUCTION AND INDUSTRIAL PLYWOOD, U.S. PRODUCT STANDARD PS2 PERFORMANCE STANDARD FOR WOOD-BASED

STRUCTURAL-USE PANELS, OR APA PRP-108 PERFORMANCE WF8.2 WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER. WF8.3 FLOOR SHEATHING (SEE DIAPHRAGM SCHEDULE):

3/4" OSB OR CDX, APA RATED SHEATHING, 48/24, EXP. I WOOD STRUCTURAL PANELS USED AS SUBFLOOR, ROOF, OR WALL SHEATHING SHALL BE FASTENED TO FRAMING MEMBERS AS FOLLOWS, U.N.O. 10D COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES, 12" O.C. AT INTERMEDIATE SUPPORTS. WF8.5 ALL ROOF SHEATHING AND SUB-FLOORING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, U.N.O. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. WHEN ROOF SHEATHING IS

NAILED DIRECTLY TO BLOCKING THE BLOCKING SHALL BE NAILED TO SUPPORT MEMBERS WITH A MINIMUM OF 16d NAILS AT 4" O.C. SUB-FLOORING SHEATHING SHALL BE UNBLOCKED, U.N.O. WF8.6 SUB-FLOOR PANELS SHALL BE TONGUE-AND-GROOVE AND FIELD GLUED TO THE FRAMING USING ADHESIVES MEETING APA SPECIFICATION AFG-01 OR ASTM D3498. PANELS SHALL ALSO BE GLUED AT THE TONGUE-AND-GROOVE JOINT. NAILING NOT SHOWN

SHALL BE AS INDICATED IN IBC TABLE 2304.10.1. NAIL HEADS SHALL BE DRIVEN FLUSH WITH SHEATHING. DO NOT PENETRATE SURFACE PLY WITH NAIL HEADS IF NAIL HEADS ARE NOT FLUSH, NOTIFY STRUCTURAL ENGINEER OF RECORD. NAILS AND STAPLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1667.

FASTENER TYPES AND SPACINGS SHALL BE AS INDICATED IN IBC TABLE

2304.10.1 OR ESR-1539, U.N.O. ALL FRAMING NAILS SHALL BE OF THE SIZE AND NUMBER INDICATED IN THE DRAWINGS AND CONFORM TO ASTM F1667 AND ESR-1539. NAILS SHALL BE IDENTIFIED BY LABELS (ATTACHED TO THEIR CONTAINERS) THAT SHOW THE MANUFACTURER'S NAME, NES REPORT NUMBER, NAIL SHÁNK DIAMETER, AND LENGTH. THIS INFORMATION ALSO SHALL BE SUBMITTED TO THE STRUCTURAL FNGINEER OF RECORD PRIOR TO FRAMING. NAILING NOT SHOWN SHALL BE AS INDICATED IN IBC TABLE 2304.10.1 OR ESR-1539. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MIN. DIMENSIONS INDICATED IN THE TABLE BELOW:

CC	COMMON NAIL SCHEDULE						
PENNYWEIGHT	LENGTH (IN.)	DIAMETER (IN.)					
6d	2.00	0.113					
8d	2.50	0.131					
10d	3.00	0.148					
16d	3.50	0.162					
20d	4.00	0.192					

BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. BOLT HOLES SHALL BE A MINIMUM OF 1/32" AND NO MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER, ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED. WITH STANDARD CUT WASHERS ALL A307 BOLTS SHALL HAVE CUT THREADS

WF12 METAL FRAMING CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE CO. ALL SPECIFIED FASTENERS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BEFORE SUBSTITUTING ANOTHER BRAND. CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA OR CALCULATIONS. THE ENGINEER OF RECORD SHALL EVALUATE AND GIVE WRITTEN APPROVAL FOR SUBSTITUTION PRIOR TO INSTALLATION. HANGERS NOT SHOWN SHALL BE SIMPSON U-TYPE OR B-TYPE OF SIZE RECOMMENDED FOR THE MEMBER

WF13 ALL INTERIOR METAL FRAMING CONNECTORS SHALL RECEIVE G90 ZINC COATING, UNO. ALL METAL FRAMING CONNECTORS AND FASTENERS INSTALLED IN EXTERIOR CONDITIONS SHALL RECEIVE G185 (SIMPSON ZMAX) COATING OR APPROVED EQUIVALENT. ALL METAL FRAMING CONNECTORS AND FASTENERS SHALL BE COMPATIBLE WITH THE APPLIED WOOD TREATMENT

WOOD FASTENER SCHEDULE									
NUMBER OR SPACING OF FASTENERS REQUIRED PER CONNECTION									
CONNECTION/LOCATION	minimum nominal nail length (inches) x minimum nominal nail shank diameter (inches)								
CONNECTION/LOCATION	3 1/2 x 0.162	3 x 0.148	3 1/4 x 0.131	3 x 0.131	2 1/2 x 0.131	3 1/4 x 0.120	3 x 0.120	2 3/8 x 0.113	2 x 0.113
Joist to band joist / face nail	3	5	5	5	N/A	6	6	N/A	N/A
Ledger strip / face nail	3	4	4	4	6	4	4	N/A	N/A
Joist to sill or girder / toe-nail	3	3	3	4	3	4	4	N/A	N/A
Blocking between joist or rafter to top plate / toe-nail	3	3	3	4	3	4	4	N/A	N/A
Bridging to joist / toe-nail each end	N/A	N/A	N/A	N/A	2	3	3	3	4
Rim joist to top plate / toe-nail	8" o.c.	6" o.c.	6" o.c.	6" o.c.	6" o.c.	6" o.c.	4" o.c.	6" o.c.	3" o.c.
Built-up girders and beams / face nail at top and bot. staggered each side of each layer	24" o.c. (3 ea. end and splice)	24" o.c. (3 ea. end and splice)	24" o.c. (3 ea. end and splice)	24" o.c. (3 ea. end and splice)	16" o.c. (4 ea. end and splice)	16" o.c. (3 ea. end and splice)	16" o.c. (3 ea. end and splice)	N/A	N/A
Ceiling joist to plate / toe-nail	3	4	5	5	5	5	5	6	N/A
Ceiling joists laps over partitions / face nail	3	4	4	4	6	4	4	N/A	N/A
Ceiling joist to parallel rafter / face nail	3	4	4	4	6	4	4	N/A	N/A
Collar tie to rafter / face nail	3	3	4	4	5	4	4	N/A	N/A
Jack rafter to hip / toe-nail	3	3	4	4	5	4	4	N/A	N/A
Jack rafter to hip / face nail	2	3	3	3	3	4	4	N/A	N/A
Roof rafter to plate / toe nail	3	3	3	3	3	4	4	5	5
Roof rafter to 2x ridge beam / face nail through beam into end of rafter	2	3	3	3	N/A	4	4	N/A	N/A
Roof rafter to 2x ridge beam / toe-nail	2	3	3	3	3	4	4	N/A	N/A
Top or sole plate to stud / end nail	2	3	3	3	5	4	4	N/A	N/A
Stud to top or sole plate / toe-nail	3	4	4	4	4	4	4	5	5
Top plate laps and intersections / face nail each side of lap	2	3	3	3	4	3	3	N/A	N/A
Diagonal bracing / face nail each stud	2	2	2	2	2	3	3	3	4
Sole plate to joist or blocking / face nail	16" o.c.	8" o.c.	8" o.c.	8" o.c.	6" o.c.	8" o.c.	8" o.c.	N/A	N/A
Sole plate to joist or blocking at braced wall panel / face nail (number per 16" joist space)	2	3	3	4	N/A	4	4	N/A	N/A
Double top plate / face nail	16" o.c.	16" o.c.	12" o.c.	12" o.c.	8" o.c.	12" o.c.	12" o.c.	N/A	N/A

16" o.c. 16" o.c. 16" o.c.

N/A - Fastener not applicable to connection

Double stude

/ face nail

ARCHITECT OF RECORD

Neumann Monson Architects 221 East College Street | Suite 303 Iowa City, Iowa 52240

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CONSULTANTS

319.333.7850

**MODUS Engineering** 118 East College St lowa City, Iowa 52240 319.248.4600

Raker Rhodes Engineering Structural Engineer 112 East Washington St | Unit B lowa City, lowa 52240

PROJECT NAME **JOHNSON** 

**COUNTY COURTHOUSE SECOND LEVEL COURTROOM** RENOVATION

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

Iowa City, Iowa 52240

DATE DESCRIPTION 09.23.2022 BIDDING DOCUMENTS

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SHEET NAME STRUCTURAL **NOTES** 

SHEET NUMBER

ARCHITECT OF RECORD Neumann Monson Architects

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MODUS Engineering

118 East College St Iowa City, Iowa 52240

Structural Engineer 112 East Washington St | Unit B Iowa City, Iowa 52240

PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** 

**JOHNSON COUNTY** 

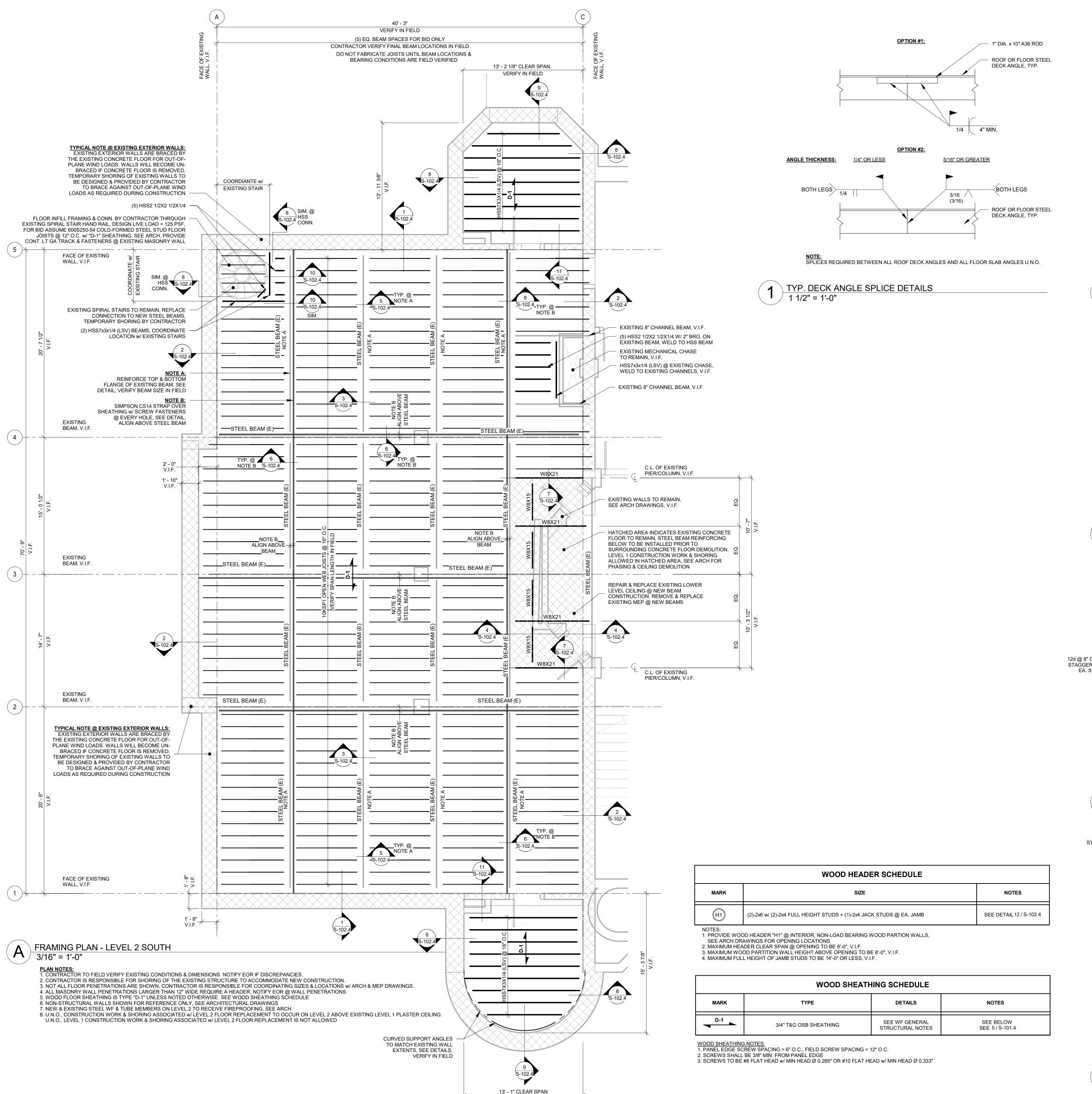
**PROJECT NO.** 18.112

DATE	DESCRIPTION
09.23.2022	BIDDING DOCUMENTS

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FRAMING PLAN -

S-101.4



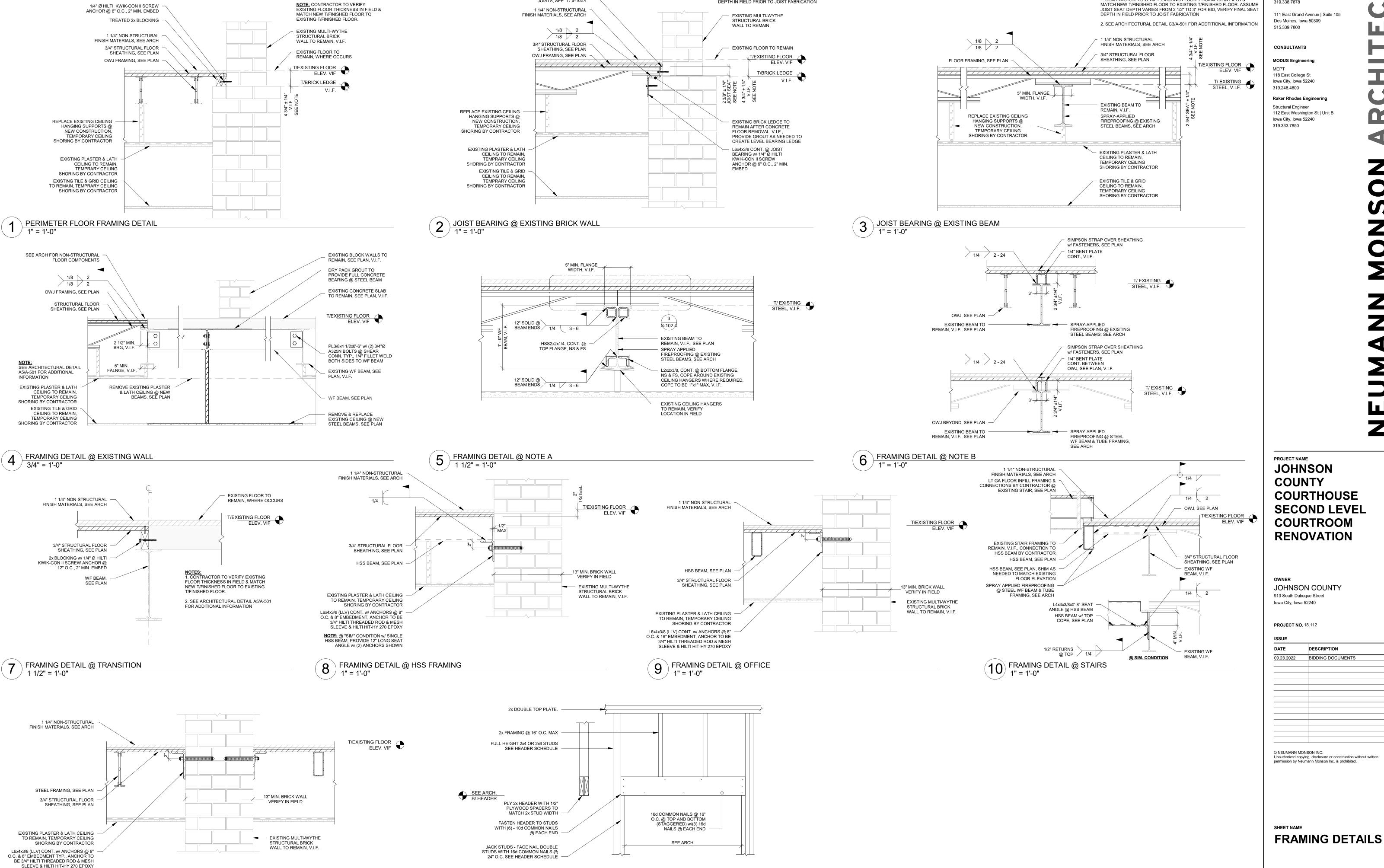
VERIFY IN FIELD

NOTES:

1. CONTRACTOR TO VERIFY EXISTING FLOOR THICKNESS IN FIELD &

MATCH NEW T/FINISHED FLOOR TO EXISTING T/FINISHED FLOOR. ASSUME

JOIST SEAT DEPTH VARIES FROM 2 1/2" TO 3" FOR BID, VERIFY FINAL SEAT



2x TREATED BLOCKING w/

JOISTS, SEE 1/S-102.4

SCREW ANCHORS BETWEEN

12 TYPICAL HEADER DETAIL 3/4" = 1'-0"

1/4" Ø HILTI KWIK-CON II SCREW

1 1 FRAMING DETAIL @ OFFICE

NOTE: CONTRACTOR TO VERIFY EXISTING FLOOR THICKNESS IN FIELD & MATCH NEW T/FINISHED FLOOR TO

EXISTING T/FINISHED FLOOR. ASSUME JOIST SEAT DEPTH

VARIES FROM 2 1/8" TO 2 5/8" FOR BID, VERIFY FINAL SEAT

DEPTH IN FIELD PRIOR TO JOIST FABRICATION

**S-102.4** 

SHEET NUMBER

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### 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
	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
	EXHAUST AIR DUCT SECTION DOWN OR AWAY
	OUTSIDE AIR DUCT SECTION DOWN OR AWAY
<b>√</b>	DIRECTIONAL FLOW ARROW
??? ♦	HORIZONTAL DAMPER  FSD = FIRE/SMOKE DAMPER, FD = FIRE DAMPER, SD = SMOKE DAMP
1	CD = CONTROL DAMPER
	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
(H)	HUMIDISTAT
_ <del></del>	DUCT RISE
	DUCT DROP
	FLEXIBLE DUCT CONNECTOR

### **MISCELLANEOUS**

----- EXISTING LINE TO REMAIN EXISTING LINE TO BE REMOVED POINT OF NEW CONNECTION EXISTING TO REMAIN EXISTING TO BE REMOVED EXR EXISTING TO BE RELOCATED

CONED TAKEOFF WITH DAMPER

AUTOMATIC MOTORIZED CONTROL DAMPER

### PLLIMRING

——⊢ UNION

PIPE CAP

BFP BACKFLOW PREVENTER

FLEXIBLE PIPE CONNECTOR

───────── THERMOSTATIC TRAP

STRAINER W/DRAIN VALVE

AIR VENT

—— PRESSURE GAUGE

EXPANSION JOINT

──¥ LUBRICATED PLUG VALVE

3WAY CONTROL VALVE

2WAY CONTROL VALVE

SWING CHECK VALVE

——

→

BALANCING VALVE TRIPLE DUTY VALVE

── HB HOSE BIBB

── | WH WALL HYDRANT

☐☐── THERMOMETER TEMPERATURE WELL

SPRINKLER POST INDICATOR VALVE

CALIBRATED BALANCE VALVE

GLOBE VALVE

GATE VALVE

F/T FLOAT & THERMOSTATIC TRAP

PLUMBING	
	DOMESTIC COLD WATER LINE - CW
	DOMESTIC HOT WATER LINE - HW
	DOMESTIC HOT WATER CIRCULATING LINE - HWC
TW	
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
——————————————————————————————————————	REFRIGERANT HOT GAS BYPASS LINE
PD	PUMPED DISCHARGE LINE
ww	WELL WATER LINE
C.O. O	CLEANOUT IN FLOOR
C.O. I	CLEANOUT AT OR ABOVE CEILING
c.o. I⊢⊙	CLEANOUT IN WALL
4	SHOWERHEAD
0	FLOOR DRAIN
	ROOF DRAIN
PIPING SPECIA	<u>LTIES</u>
O—————————————————————————————————————	

### HYDRONIC PIPING

———— HPS ———	HIGH PRESSURE STEAM SUPPLY LINE (51-125 PSIG)
	— HIGH PRESSURE CONDENSATE RETURN LINE
MPS	MEDIUM PRESSURE STEAM SUPPLY LINE (16-50 PSIG
— — —MPR— —	— MEDIUM PRESSURE CONDENSATE RETURN LINE
LPS	LOW PRESSURE STEAM SUPPLY LINE (0-15 PSIG)
LPR $$	<ul> <li>LOW PRESSURE CONDENSATE RETURN LINE</li> </ul>
———РС ———	PUMPED CONDENSATE RETURN LINE
	HEATING HOT WATER SUPPLY LINE
	— HEATING HOT WATER RETURN LINE
CHWS	CHILLED/HOT WATER SUPPLY LINE
— — <del>-</del> СНWR— —	— CHILLED/HOT WATER RETURN LINE
CWS	CHILLED WATER SUPPLY LINE
— — — CWR— —	— CHILLED WATER RETURN LINE
CDS	CONDENSER WATER SUPPLY LINE
— — — CDR— —	CONDENSER WATER RETURN LINE
——— СТВ ———	COOLING TOWER BLOWDOWN LINE
———— HPS ———	HEAT PUMP SUPPLY LINE
— — —HPR— —	HEAT PUMP RETURN LINE
SMS	SNOW MELTING SYSTEM SUPPLY
	— SNOW MELTING SYSTEM RETURN
OF	OIL FILL LINE
os	OIL SUCTION LINE
OR	OIL RETURN LINE
OG	OIL GAUGE LINE
OV	OIL VENT LINE
wo	WASTE OIL LINE
wov	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

OUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE  $\rightleftharpoons_\mathsf{T}$  DUPLEX TAMPER-RESISTANT RECEPTACLE

WP DUPLEX WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH COVER

UDUPLEX RECEPTACLE WITH USB CHARGER PORT

 $\Longrightarrow_{\mathsf{H}}$  Duplex receptacle installed horizontally

DUPLEX RECEPTACLE ON BACKUP POWER

QUADRUPLEX RECEPTACLE QUADRUPLEX RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED

DUPLEX CEILING RECEPTACLE

① ⊕ ▼ WIREMOLD/PLUGMOLD W/ENTRANCE FITTING AS SPECIFIED AND RECEPTACLES & DEVICES AS INDICATED

DUPLEX WALL RECEPTACLE FOR 208V, VERIFY POWER NEEDS HAND DRYER (BY OTHERS)

AUTOMATIC FAUCET/VALVE

EPO EMERGENCY PUSH BUTTON (GENERATORS/BOILERS) ADA PUSH BUTTON (BY OTHERS)

### **EQUIPMENT WIRING**

DISCONNECTING MEANS

WP WEATHERPROOF DISCONNECTING MEANS F FUSED DISCONNECTING MEANS

MS MOTOR STARTER - REFER TO SPECIFICATIONS 26 28 16, AUTOMATIC CONTROLLERS

VFD VARIABLE FREQUENCY DRIVE W/INTEGRAL DISCONNECT

### \$<sup>MS</sup> MOTOR RATED SWITCH

### **SWITCHES - LOW VOLTAGE (DIGITAL)**

W WALL SWITCH/STATION

S 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

3-WAY SWITCH

4-WAY SWITCH SINGLE POLE KEYED SWITCH

S<sub>K3</sub> 3-WAY KEYED SWITCH

S<sub>P</sub> PILOT LIGHT SWITCH

S<sub>M</sub> MOMENTARY LIGHT SWITCH

S OCCUPANCY SENSOR WALL SWITCH

S CEILING MOUNT OCCUPANCY SENSOR

### **DISTRIBUTION**

SURFACE-MOUNT PANEL

FLUSH-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

STATE OUTLET FOR WALL MOUNTED TELEPHONE

 $\mathrel{\triangleleft}$  # STATE DATA OUTLET IN WALL W/ # OF JACKS STATE DATA OUTLET ABOVE COUNTER BACKSPLASH

STATE DATA OUTLET IN CEILING WAP COUNTY WIRELESS ACCESS POINT

COMBINATION COUNTY/STATE OUTLET IN WALL COMBINATION COUNTY/STATE OUTLET ABOVE COUNTER

⊬S WALL HORN INDICATOR 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

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

DC DOOR CONTACT

CR PROXIMITY CARD READER CM MULLION MOUNT CARD READER

ACCESS CONTROL

PB PUSHBUTTON (DOOR RELEASE)

DB PANIC/DURESS BUTTON

SECURITY CAMERA

**LUMINAIRES** 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

 ▼▼ TRACK MOUNT FIXTURE W/TYPE NUMBER ☐ INGROUND FIXTURE W/TYPE NUMBER

POLE MOUNT FIXTURE W/TYPE NUMBER GROUND MOUNT FLOOD LIGHT FIXTURE W/TYPE NUMBER TREE UPLIGHT FIXTURE W/TYPE NUMBER

EDGE MOUNTED EXIT SIGN W/ILLUMINATED FACE(S) AND DIRECTION INDICATED

ROUND CEILING MOUNT EMERGENCY LIGHT FIXTURE W/ TYPE AND CIRCUIT INDICATED ON PLANS

### **MISCELLANEOUS** EX EXISTING - TO REMAIN

EXR EXISTING - TO BE RELOCATED

ER EXISTING - TO BE REMOVED ----- CONDUIT SWITCH-LEG IN CONDUIT — UC— UNDER GROUND 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

### **EXIT & EMERGENCY**

† OUBLE FACE CEILING MOUNTED EXIT SIGN W/ILLUMINATED FACE(S) AND DIRECTION INDICATED

→ † WALL MOUNTED EXIT SIGN W/DIRECTION INDICATED

EMERGENCY BATTERY PACK

RECTANGULAR CEILING MOUNT EMERGENCY LIGHT FIXTURE W/ TYPE AND CIRCUIT INDICATED ON PLANS (FULL SHADE)

### EZ PASS-THROUGH

PROJECT NAME **JOHNSON** COUNTY **COURTHOUSE SECOND LEVEL COURTROOM RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

DESCRIPTION 09.23.2022 BIDDING DOCUMENTS

### **SHEET INDEX PHASE 4**

- ME-001.4 COVER SHEET MECHANICAL DEMOLITION PLAN MD-101.4 MECHANICAL PLAN M-101.4 M-501.4 MECHANICAL DETAILS
- M-601.4 MECHANICAL SCHEDULES ED-101.4 ELECTRICAL DEMOLITION PLAN E-101.4 ELECTRICAL POWER PLAN
- E-201.4 ELECTRICAL LIGHTING PLAN E-501.4 DETAILS & SCHEDULES E-502.4 ELECTRICAL SCHEDULES

TD-101.4 SECOND LEVEL LOW VOLTAGE DEMOLITION PLAN T-101.4 SECOND LEVEL LOW VOLTAGE PLAN

T-501.4 LOW VOLTAGE DETAILS

PROJECT MANAGER TCONRAD@MODUS-ENG.COM **MECHANICAL ENGINEER** 

TCONRAD@MODUS-ENG.COM **ELECTRICAL ENGINEER** AWEBER@MODUS-ENG.COM

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> > SHEET NAME **COVER SHEET**

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**MECHANICAL DEMO GENERAL NOTES:** 

DEMOLITION IN THE BID.

DEMOLITION REQUIREMENTS.

REFERENCED NOTES: (D#)

FLOOR REPLACEMENT IS ONGOING.

PLACE. SUBMIT RESULTS TO DESIGN TEAM.

REMOVE EXISTING PNEUMATIC CONTROLS.

POWER. REMOVE PIPING BACK TO MAINS AND CAP.

STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

PREPARE FOR NEW CONNECTION.

FOR INSTALLATION OF NEW AHU.

LOCATION.

INFORMATION.

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

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

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.

REMOVE FAN COIL UNIT FOR FLOOR REPLACEMENT. REMOVE MOUNTING

HARDWARE AS REQUIRED. SAVE ALL EQUIPMENT FOR REINSTALLATION
AFTER NEW FLOORING SYSTEM IS INSTALLED. REMOVE EXISTING

COVER OVER EXISTING DIFFUSERS WITH PROTECTIVE PLASTIC WHILE

REMOVE FIXTURE AND ALL ASSOCIATED PIPING. CAP PIPING AT MAINS. REMOVE SANITARY PIPING TO BELOW FLOOR & CAP. CUT & PATCH FLOOR

REMOVE LOW RETURN GRILLE AND DUCT DROP IN WALL. PATCH DUCT AT

TAB CONTRACTOR TO VERIFY AHU AIRFLOW PRIOR TO ANY WORK TAKING

REMOVE AHU. REMOVE PIPING AND DUCTWORK AS SHOWN. REMOVE ALL PNEUMATIC CONTROLS. MODIFY EXISTING PAD/SUPPORTS AS REQUIRED

REMOVE FAN COIL UNIT AND ASSOCIATED PNEUMATIC CONTROLS AND

REMOVE FAN COIL UNIT FOR FLOOR REPLACEMENT AND ASSOCIATED

REMOVE AND REINSTALL EXISTING DUCT AS REQUIRED FOR FLOOR STRUCTURE REPLACEMENT. SEE STRUCTURAL PLANS FOR ADDITIONAL

TEMPORARILY SUPPORT ALL MECHANICAL AND PLUMBING SYSTEMS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF FLOOR SYSTEM ABOVE. RESUPPORT EXISTING SYSTEMS AS REQUIRED. SEE ARCHITECTURAL AND

REMOVE EXISTING DUCTWORK OR PIPING BACK TO THIS POINT AND

PNEUMATIC CONTROLS. PIPING AND WIRING SHALL BE EXTENDED TO NEW

REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL

lowa City, Iowa 52240

9.23.2022 BIDDING DOCUME	IENTS

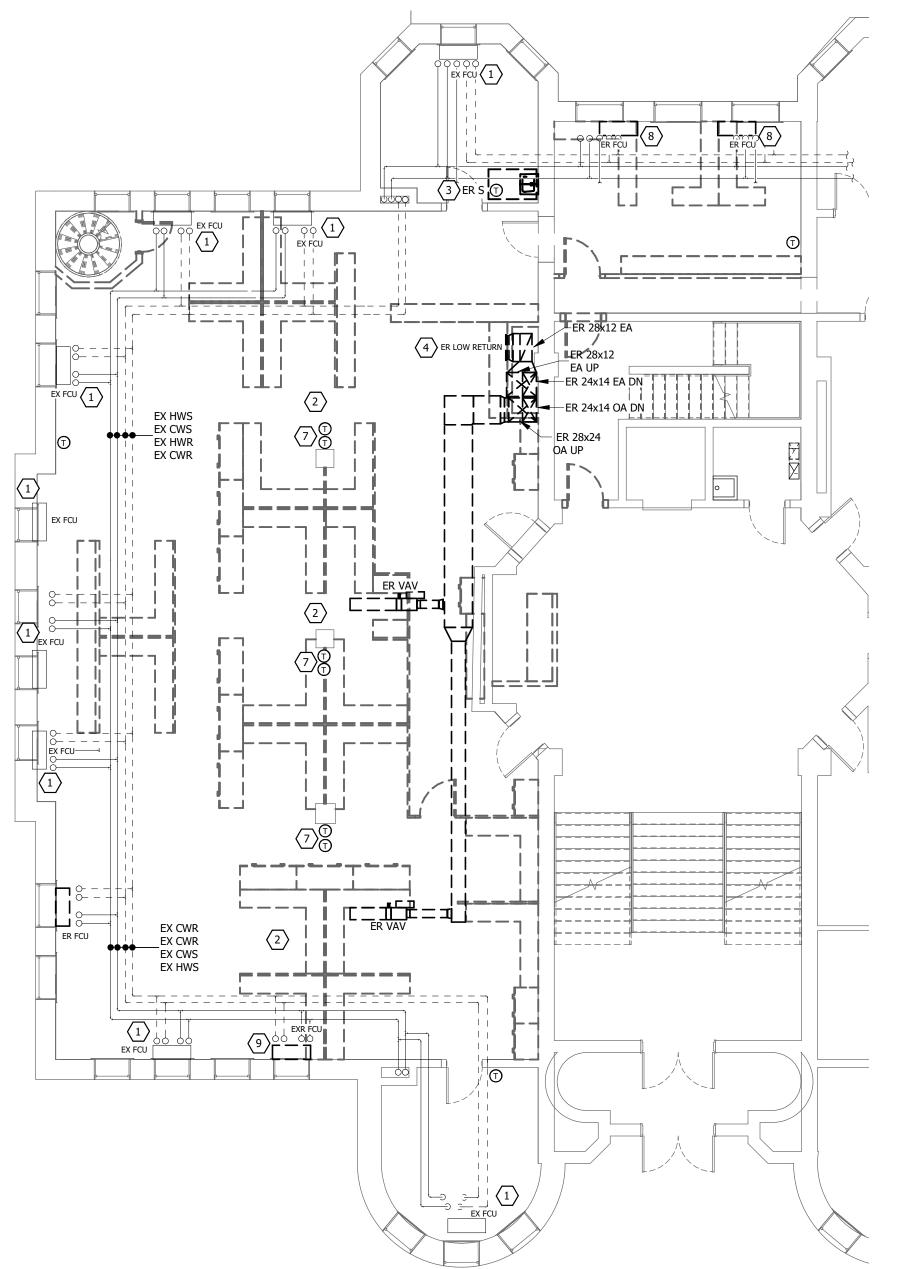
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SHEET NAME **MECHANICAL** 

**DEMOLITION PLAN** 

MD-101.4



N 3 LEVEL 2 MECHANICAL DEMOLITON PLAN PHASE 4

EX EA DN

EX 12"x18" EA

+er damper

EX LOUVER

EX LOUVER

ER 24"x30"

EX 16"x12" EA

ER 24"x28"

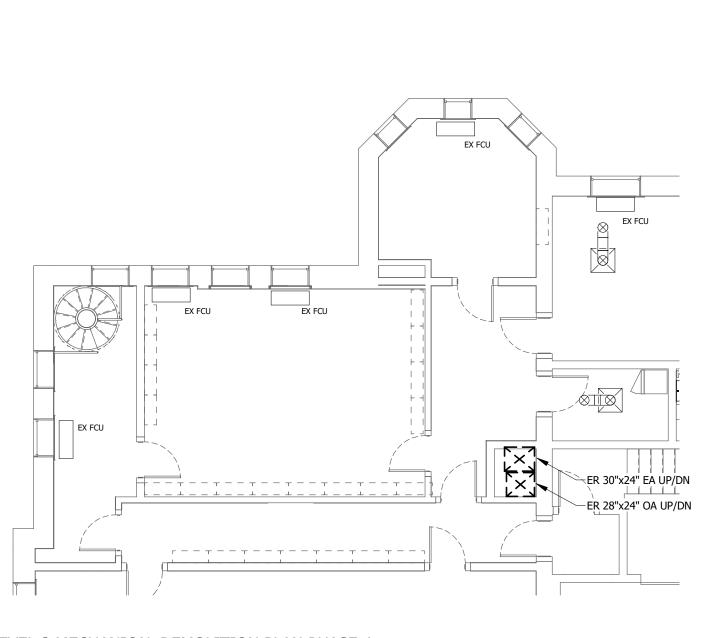
| 12"x12" OA | 12 | EX 1-1/2" HWS | EX 1-1/2" HWR | EX 2" CWS | EX 2" CWS | EX 2" CWR | EX

ER 1-1/2" HWR ER 2" CWS

ER 24"x28"

—ER 30"x24" EA DN

EX ERV



EX 3/4" HWS EX 2-1/2" HWR

EX 3/4" CWS

—EX 1-1/4" CD—

EX 30"x10"

EX 16"x12"

\_\_\_\_ -----

---------

\_\_\_\_\_ -----

EX 3" CWR

EX FCU EX FCU

EX FCU

EX 1" CD

EX 2-1/2" HWR

EX 3/4" HWS UP/DN

EX 1" HWS

EX 3/4" CWS UP/DN EX 3/4" HWR UP/DN EX 3/4" CWR UP/DN

**♦♦♦♦ EX 1-1/4" CWS** 

EX 2-1/2" HWR

EX 3" CWR

EX 1" HWS

EX 1-1/4" CWS

EX 3" CWR 🗸

1" CWS

DROP TO PIPE

**ENCLOSURE** 

6" HWS/R DN 6" CWS/R DN

PNEUMATIC AND

HEATING WATER

CONTROL PANELS

EX 3/4" HW EX 1" CW —

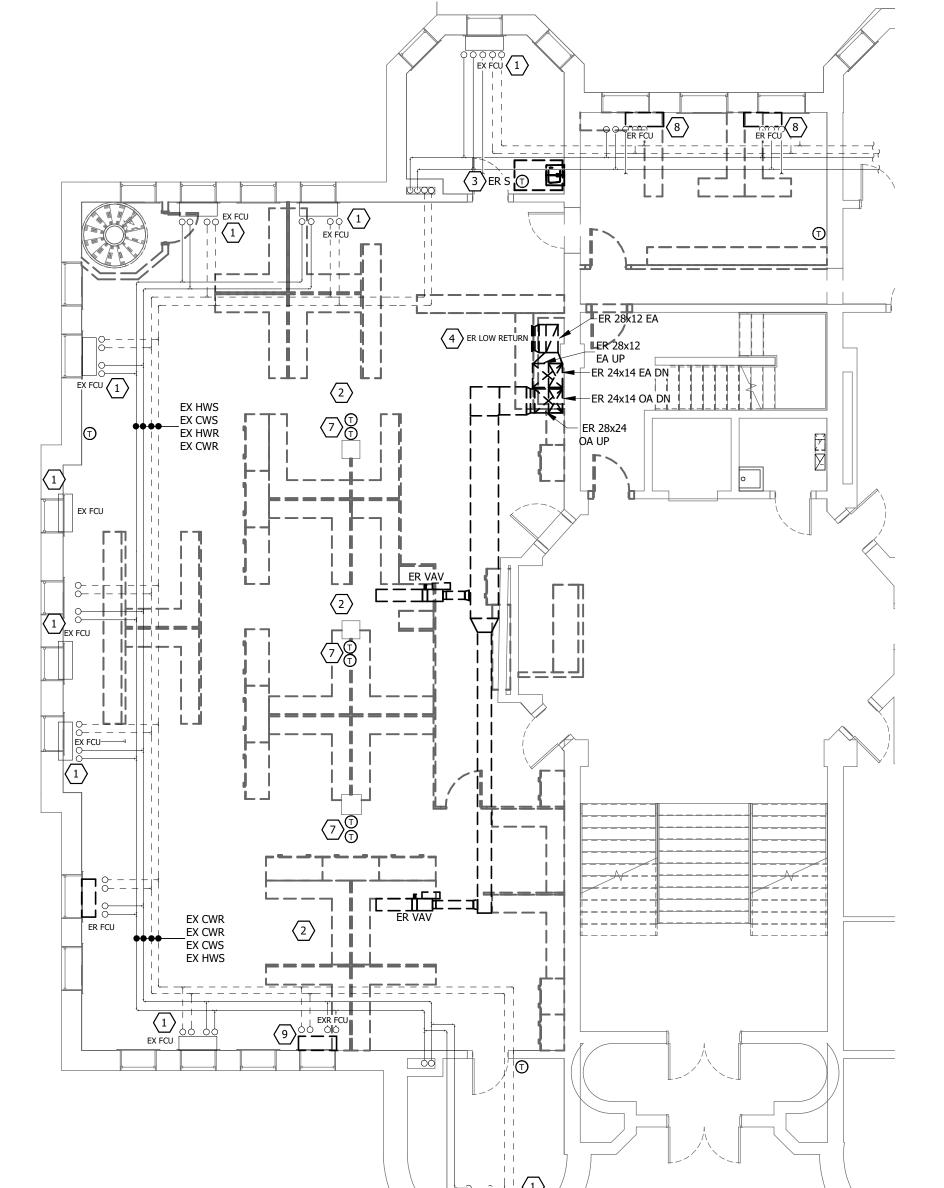
FROM BELOW RAISED FLOOR

TO REMAIN

N 4 LEVEL 1 MECHANICAL DEMOLITION PLAN PHASE 4

21-163 JOHNSON CO COURTHOUSE REMODEL





EX 1-1/2" HWR

EX 2" CWR

18"x12" EA

VESTIBULE

\_CONFERENCE 021E

EX 1 1/4" CD

+<u>FD</u> AT FLOOR ABOVE

28x18 EA UP

18x12 OA DN 9

—28x18 OA UP

+<u>FD</u> at floor above

COURT ATTENDANT

-----

ex 2-1/2" HWR UP/DN

EX 3" CWR UP/DN EX 2-1/2" HWR UP/DN

EX 3/4" CWS
EX 1" HWR
EX 2" CWR

EX 1 1/4" CWS EX 1 1/4" HWR EX 1 1/4" CWR

EX 1" HWS EX 1 1/4" CWS ● ◆◆◆● EX 1" HWR 

EX 1 1/4" CD

EX 1 1/4" CWS

EX 1" HWR

EX 1 1/4" CWR

EX 1 1/2" HWS EX 1 1/4" HWS EX 1 1/2" CWS EX 1 1/2" CWS

EX 1" CWR

EX 1-1/2" HWS DN\_\_\_/ | EX 1 1/2" CD | | 🗽

0FFICE | 023C| | 1

EX 1" HWR

EX 1" CWR

EX 2" CWS DN

EX 1 1/4" CD

EX 1 1/4" CD

12"x8" OA

EX FCU

EX 1" CWS

EX 1 1/4" HWR EX 1 1/2" CWR

N 1 LEVEL 2 MECHANICAL PLAN PHASE 4

### **GENERAL NOTES:**

<u>ECP-1</u> | \EX 1 1/2" CD

- 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.

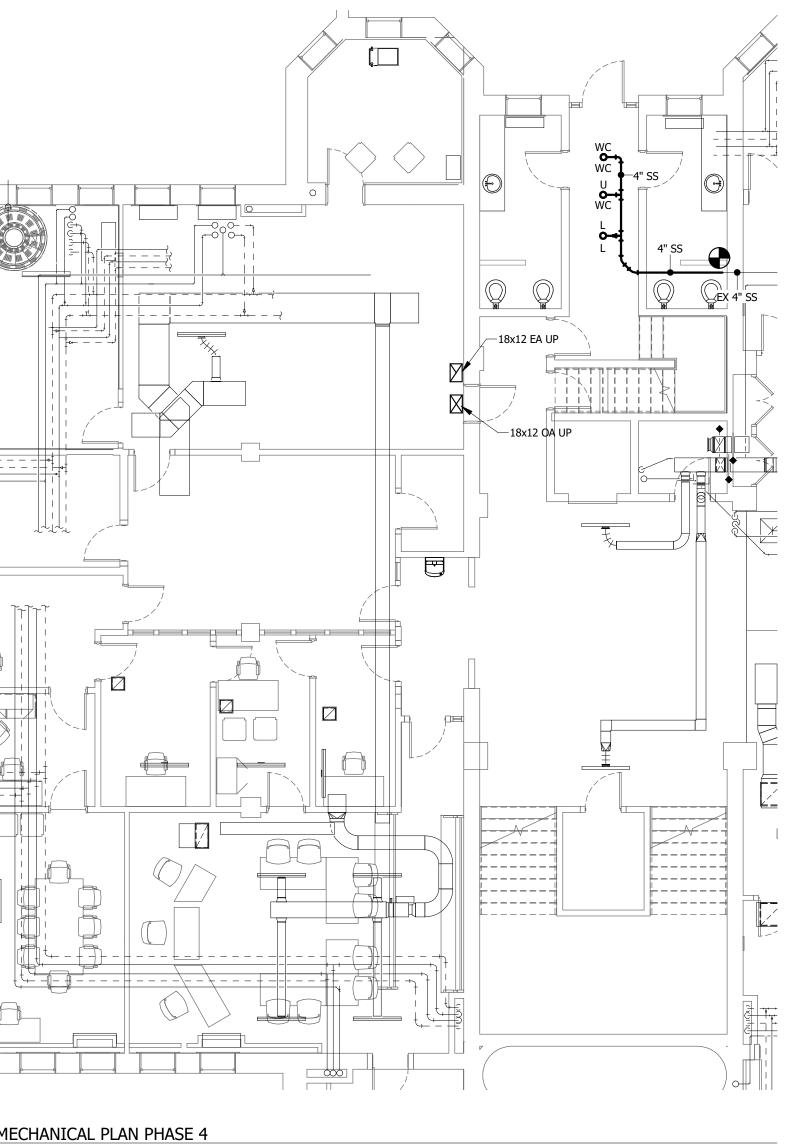
- ROUTE DOMESTIC WATER LINES DOWN THRU CHASE. ROUTE TO NEAREST
- ROUTE VENT LINE TO NEAREST EXISTING AND CONNECT.
- REINSTALL RELOCATED FCU. COORDINATE INSTALLATION WITH JURY
- EXTEND PIPING AND WIRING AS REQUIRED TO REACH NEW EXR FCU

- ACCESS TO THE ATTIC IS LIMITED TO THE STAIRWAY FROM 3RD FLOOR
- ROUTE DUCT DOWN THROUGH FLOOR TO 2ND FLOOR CEILING AND CAP.

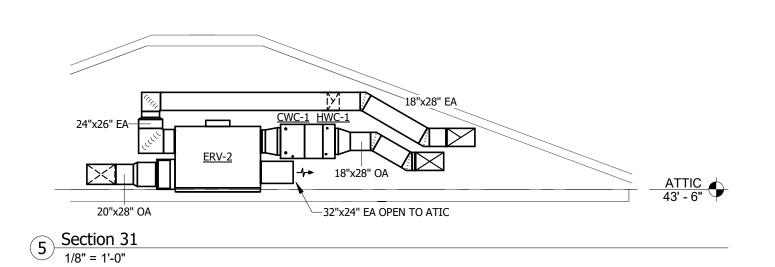
### REFERENCED NOTES: #

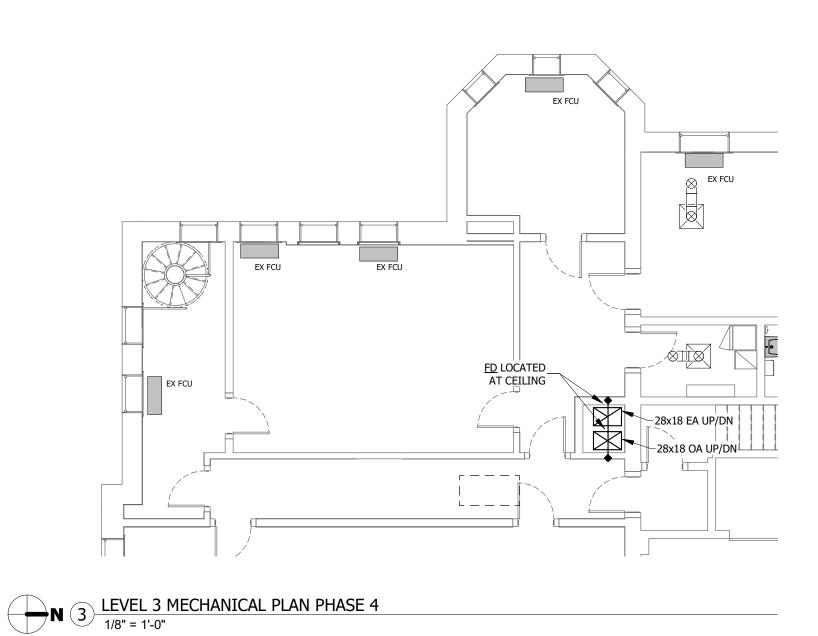
- REINSTALL EXISTING FCU.
- EXISTING BRANCH LINES AND CONNECT TO EXISTING.

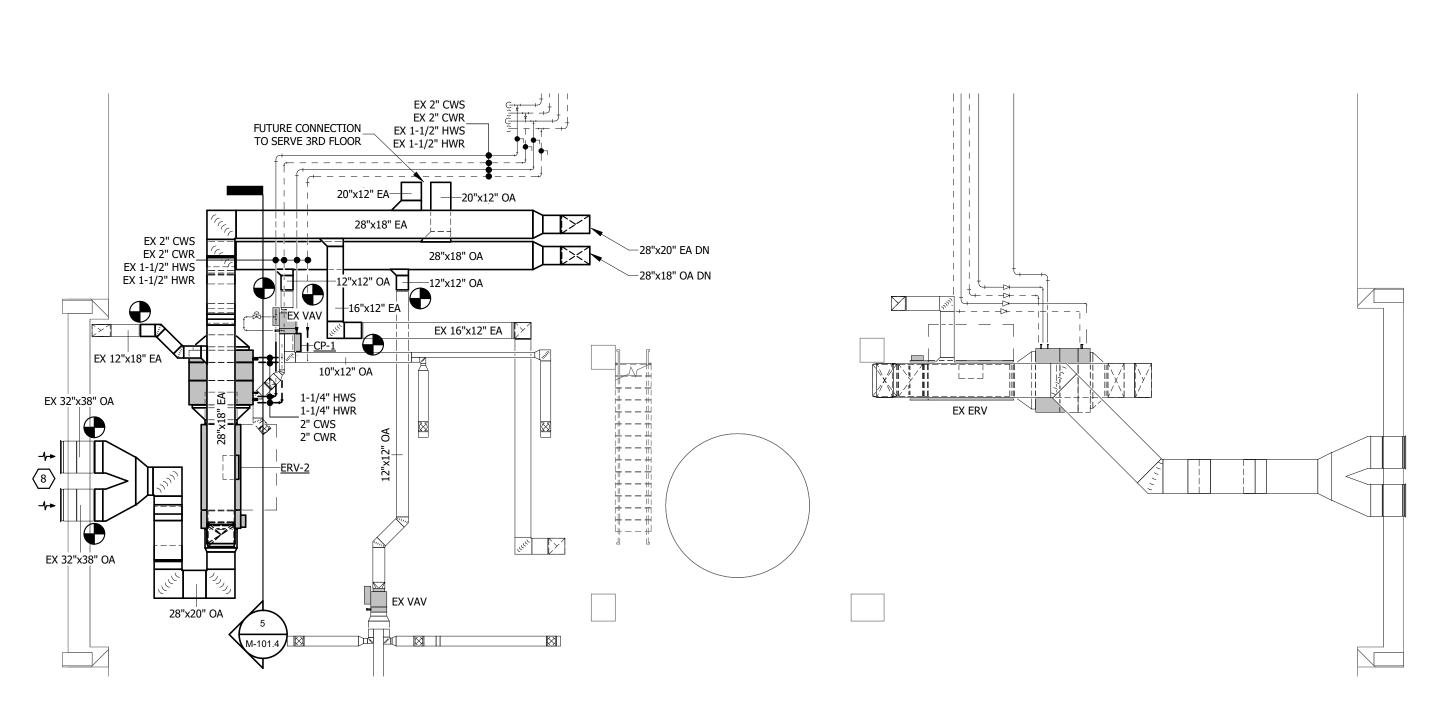
- REPLACE EXISTING PNEUMATIC CONTROLS WITH NEW DIGITAL TEMPERATURE CONTROLS.
- 3/4" CD DOWN IN WALL. CONNECT TO EXISTING CD IN 1ST FLOOR CEILING.
- AND THE EXISTING LOUVERS.



N 4 LEVEL 1 MECHANICAL PLAN PHASE 4







ATTIC HVAC PLAN PHASE 4

PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

ARCHITECT OF RECORD

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**PROJECT NO.** 18.112

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SHEET NAME **MECHANICAL** 

**PLAN** 

M-101.4

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MEPT

a = W(0.364)

**←** a →

No Scale

AUTOMATIC FLOW CONTROL VALVE

——CWS——→

+- P&T PLUG (TYP)

THERMOMETER (TYP)

—BRANCH LINE DRAIN (TYP)

→ STRAINER

5 ELBOW AND WYE WITH VANE DETAIL

PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

PROJECT NO. 18.112

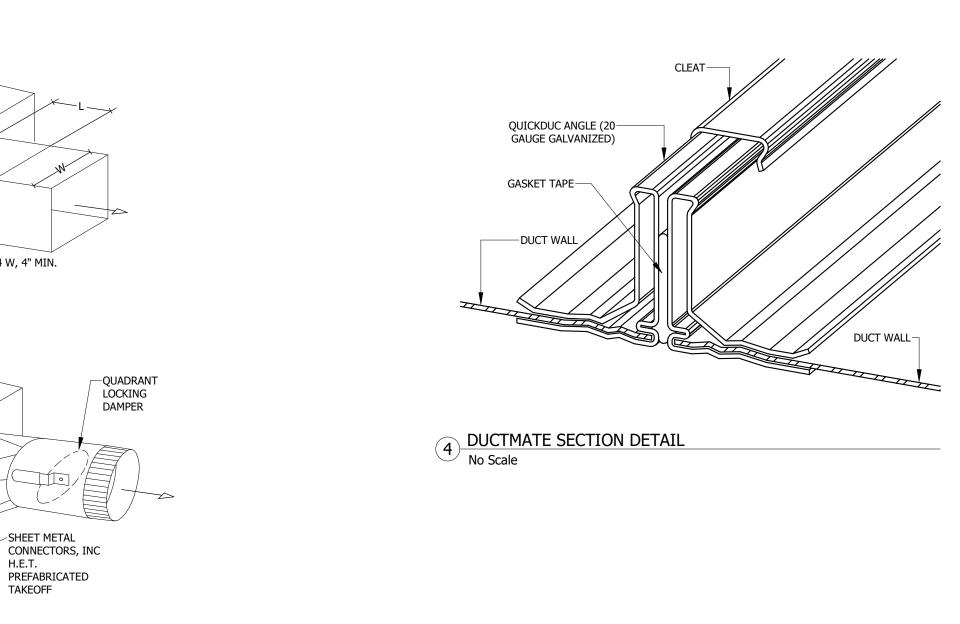
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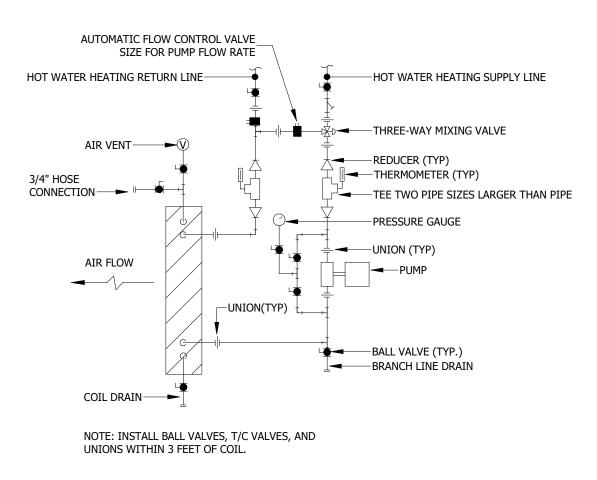
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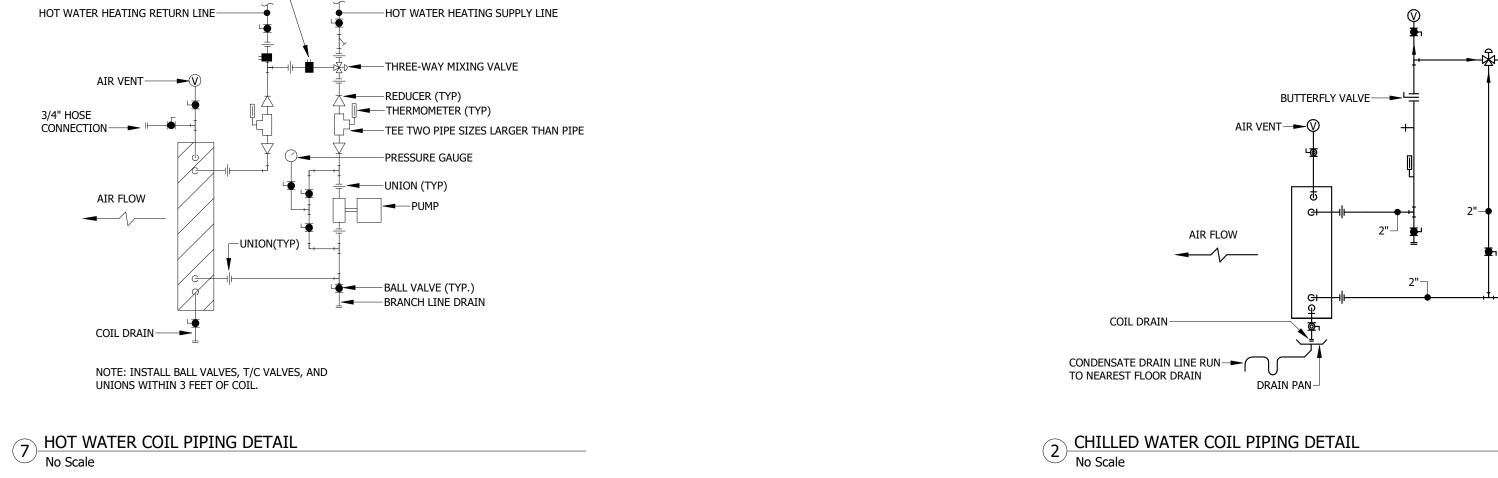
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SHEET NAME **MECHANICAL DETAILS** 

M-501.4







NOTE: REFER TO SPECIFICATIONS FOR 360

CORNERS

8 INSULATED PIPE HANGER DETAIL

ARE CLIPPED

FLARED\_ EDGES

No Scale

SPECIFIED

INSULATION

PIPE HANGER

PIPE SADDLE WITH FLARED

-EDGES NOTCHED TO FIT PIPE

SPECIFIED

INSULATION

HANGER, TO SPAN 180°

—LENGTH = 12"— ►

360 DEGREE

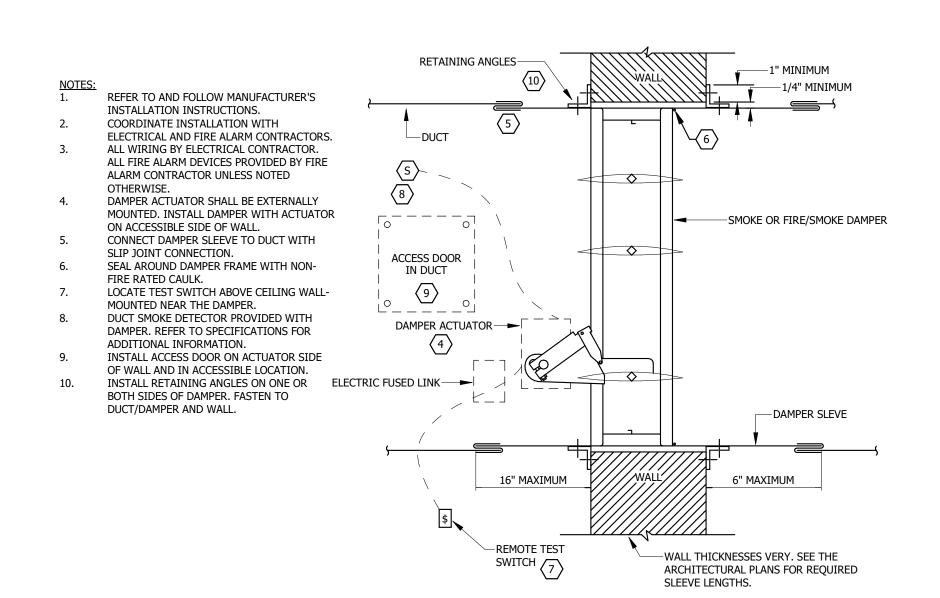
INSERT (SEE SPEC)

(SEE SPECS)

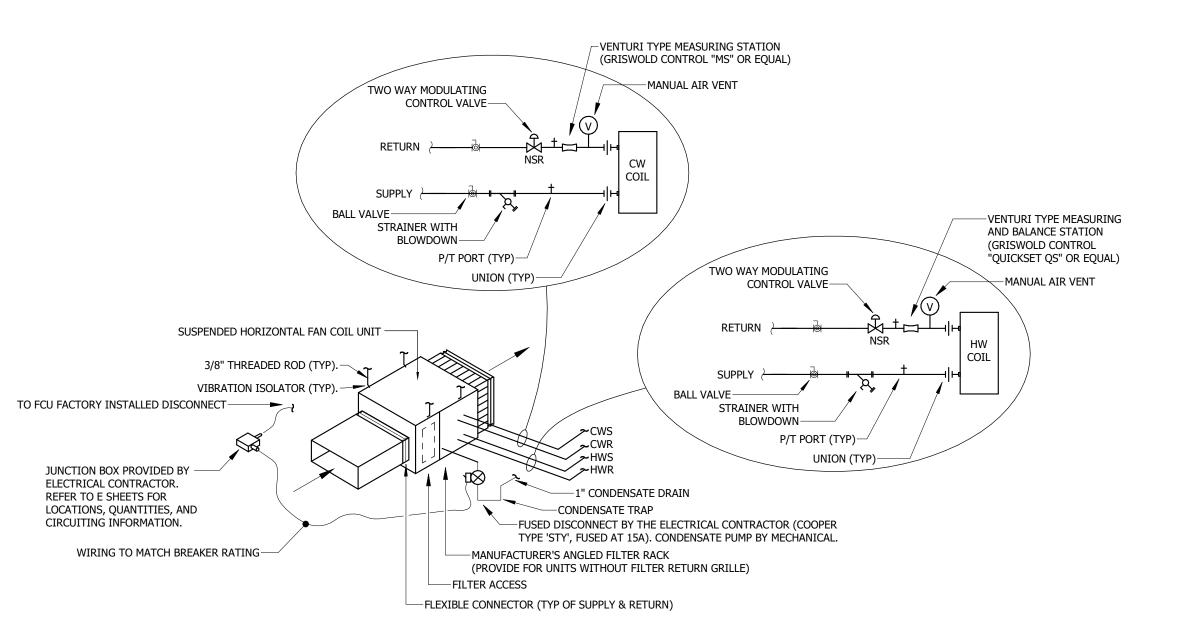
ALL INSULATION SHALL PASS UNBROKEN—

THROUGH HANGER

DEGREE INSERT INFORMATION.







6 FAN COIL (FCU) PIPING DETAIL No Scale

DUCT MAIN-

DUCT MAIN-

DUCT MAIN-

1 45 BRANCH CONNECTION DETAIL No Scale

L=1/4 W, 4" MIN.

SHEET METAL

-QUADRANT

LOCKING

-SHEETMETAL CONNECTORS, INC., SPIN-IN BELLMOUTH CONNECTOR,

PREFABRICATED TAKE-OFF

H.E.T.

OPENING AT

															ENERGY	Y RECO	VERY VE	ENTILAT	TOR SCHE	DULE - P	ROJECT	4																
		SUPPLY FAN	S		E	HAUST FAN	S					ENERGY RI	ECOVERY							CHILLED W	ATER COIL							HOT WAT	TER COIL					MAIN UNIT	ELECTRICAL		ELECTRIC PREHE	AT COIL
								T	OTAL EFFECTIV	VENESS %		SUMMER	·		WINTER			TOTAL								TOTACL							OUTSIDE 8	ź.				
			MOTOR					MOTOR			RETURN AIR	OUTSIDE AIR	1	RETURN AIR	OUTSIDE AIR	1			ENTERING	LEAVING		FLU	JID PD				ENTERING	<b>LEAVING</b>		FLU	UID PD		RETURN AI	R		CAPACIT		
UNIT TAG   MANUFACTURE	R MODEL CFM	ESP MOTOR HP B	HP QUANTIT	Y CFM I	ESP MO	TOR HP	BHP Q	VTITMAU	SUMMER	WINTER	EDB/EWB	EDB/EWB	LDB/LWB	EAT	EAT	LAT	UNIT TAG	(MBH)	DB/WB	DB/WB	EWT/LWT	GPM (	(FT) ROV	WS FLUID	UNIT TAG	(MBH)	DB	DB	EWT/LWT	GPM	(FT) RO	WS   FLUID	FILTERS	VOLTAGE/PHASE	i MCA MO	P (kW)	VOLTAGE/PH	ASE FLA
ERV-2 OXYGEN-8	C40IN 4000	1.5 2.0 kW 2.9	9 kW 2	4000	1.5	.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 1	17.4 5	WATER	HWC-1	142	41.5	75.1	180/150	10	8.0	L WATER	R MERV8	208V/3PH	27.33 35	11.1	208V/3PH	30.8
NOTEC:																																						

NOTES: 1. PROVIDE ELECTRIC PREHEAT. 2. HOT WATER COIL SHALL BE PREHEAT.

3. CHILLED WATER COIL SHALL BE POST-COOLING.

<sup>4.</sup> DUE TO LIMITED ACCESS TO ATTIC, ERV SHALL BE CAPABLE OF BEING BROKEN DOWN INTO COMPONENTS SMALL ENOUGH TO FIT UP ACCESS STAIRS. COORDINATE WITH EQUIPMENT MANUFACTURER.

													FAN (	COIL UNIT	SCHEI	DULE - PRO	JECT 4	ļ											
					FILTE	R		F	AN				CHILLED WATER COIL							HOT WATER C	OIL						ELECTRICAL		
			DIMENSIONS							TOTAL CAPACITY	SENSIBLE CAPACITY					FLUID PD							FLUID PD					CHILLED WATER	HEATING WATER
UNIT TAG	MANUFACTURE	MODEL	(LxWxH)	WEIGHT	DEPTH (IN)	MERV	CFM	ESP (IN)	MOTOR TYPE	(MBH)	(MBH)	ENTERING DB/WB	LEAVING DB/WB	EWT/LWT	GPM	(FT) RO	WS F	LUID TOTAL CAPACITY (MBH)	ENTERING DB	LEAVING DB	EWT/LWT	GPM	(FT)	ROWS	FLUID	MCA I	10CP VOLTAGE/PHAS	E SUPPLY/RETURN (IN)	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	- V	/ATER 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-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 V	/ATER 10.5	68.0	104.5	180.0/139.6	0.5	0.27	1	WATER	3.1	5.6 120/1	3/4	3/4

1. PROVIDE WITH FACTORY MOUNTED FUSED DISCONNECT.

1. PROVIDE WITH FACTOR MODIFIED 1 32LD DISCOMMENT.
2. UNITS SHALL BE PROVIDED WITH CONDENSATE OVERFLOW SWITCH.
3. PROVIDE ACCESS PANELS WHERE REGUIRED TO ALLOW ACCESS TO UNIT, FILTER, VALVES, AND CONTROLS. COORDINATE WITH ARCHITECT.

3. PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO UNIT, FILTER, VALVES, AND CONTROLS. COORDINATE WITE
4. ALL UNITS SHALL BE PROVIDED WITH A CONDENSATE PUMP POWERED THROUGH THE UNIT.

			INL	INE PUMP S	SCHEDULE -	PROJECT 4			
UNIT TAG	MANUFACTURER	MODEL	SYSTEM	FLOWRATE (GPM)	TOTAL HEAD (FT)	CONNECTION SIZE	MOTOR NOL HP	MOTOR HP	VOLTAGE/PHAS
CP-1	GRUNDFOS	UPS 43-100 F	HOT WATER	10	25	1 1/2"	-	-	115V/1PH

		GRILLES	, REGISTER	S, AND DIFFUS	ERS SCHEDU	JLE - PROJE	CT 4	
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	
R-1	PRICE	80	STEEL	RETURN	SEE PLANS	24"x24"	25	
E-1	PRICE	SPD	STEEL	EXHAUST	SEE PLANS	24"x24"	25	

	ELECTR	RIC RADIA	NT CEILING	PANEL SCHE	DULE - PRO	JECT 4	
						VOLTAGE/PHAS	
<b>UNIT TAG</b>	MANUFACTURER	MODEL	WIDTH (IN)	LENGTH (IN)	CAPACITY (kW)	E	F
ECP-1	INDEECO	AS2448	24	48	0.5	120/1Ø	4

NOTES:
1. PROVIDE WITH REMOTE ROOM THERMOSTAT.

							PLUMBING FIXTURE SCHEDULE - PROJECT 4			
UNIT	TYPE	MANUFACTURER	MODEL	MATERIAL	COLOR	ADA	FIXTURE DESCRIPTION	MISCELLANEOUS	TRIM	APPROVED EQUALS
L-1	LAVATORY	KOHLER	KATHRYN K-2330	VITREOUS CHINA	WHITE	SEE ARCH.	23-7/8" x 15-5/8" x 6-1/4" RECTANGULAR UNDERMOUNT LAVATORY	COORDINATE WITH CASEWORK DIMENSIONS. SEE ARCHITECTURAL DRAWINGS.	LF-1	AMERICAN STANDARD, SLOAN
U-1	URINAL	KOHLER	BARDON K-4991-ET-0	VITREOUS CHINA	WHITE	SEE ARCH.	0.125 GPF, WALL HUNG, HIGH EFFICIENCY WASHOUT FLUSHING ACTION, INTEGRAL TRAP, VANDAL RESISTANT OUTLET STRAINER, 3/4 INCH TOP SPUD, TWO INCH THREADED OUTLET	-	UFV-1	AMERICAN STANDARD, SLOAN
WC-1	WATER CLOSET	KOHLER	KINGSTON K-4325-0	VITREOUS CHINA	WHITE	YES	1.28 GPF, WALL MOUNTED, SIPHON JET, 1-1/2" TOP SPUD. CHINA BOLT CAPS, ADA CAPABLE,	COORDINATE FLUSH VALVE STYLE WITH GRAB BARS, CONTROLS FOR FLUSH VALVES MOUNT ON THE WIDE SIDE OF THE TOILET, VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	WCFV-1	AMERICAN STANDARD, SLOAN
WC-2	WATER CLOSET	KOHLER	KINGSTON K-4325-0	VITREOUS CHINA	WHITE	NO	1.28 GPF, WALL MOUNTED, SIPHON JET, 1-1/2" TOP SPUD. CHINA BOLT CAPS, ADA CAPABLE,	CONTROLS FOR FLUSH VALVES MOUNT ON THE WIDE SIDE OF THE TOILET, VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	WCFV-1	AMERICAN STANDARD, SLOAN

					PLUMBING FIXTURE TRIM SCHEDULE - PROJECT 4		
UNIT	TYPE	MANUFACTURER	MODEL	COLOR	FIXTURE DESCRIPTION	MISCELLANEOUS	APPROVED EQUALS
LF-1	LAVATORY FAUCET	KOHLER	K-103K36	CHROME	SENSOR OPERATED CENTER SET ELECTRONIC HAND WASHING FAUCET, 0.5 GPM LAMINAR FLOW VANDAL-RESISTANT AERATOR, HARD WIRED 120 VAC INPUT 24 VAC TRANFORMER, 24V WIRING. 24V WIRING SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR.	SLOAN #BDT THERMOSTATIC MIXING VALVE OR EQUAL, METAL GRID STRAINER WITH 1-1/2" 17 GA CHROME PLATED P-TRAP, OFFSET TAILPIECE AS REQUIRED, TRU-BRO LAV GUARD, 1/4 TURN LOOSE KEY STOPS	ENGINEER APPROVED EQUAL
UFV-1	URINAL FLUSH VALVE	SLOAN	ECOS 8186-0.125	CHROME	0.125 GPF, FLEX TUBE DIAPHRAGM, BATTERY OPERATED SENSOR (4 AA BATTERIES), SEAT SOLDER ADAPTER, INTEGRAL SCREW DRIVER ANGLE STOP, FIXED METERING BYPASS, VANDAL RESISTANT STOP CAP AND VACUUM BREAKER	-	NO APPROVED EQUAL
WCFV-1	WATER CLOSET FLUSH VALVE	SLOAN	G2 OPTIMA PLUS 8111-1.28	CHROME	1.28 GPF, DIAPHRAGM TYPE BATTERY OPERATED SENSOR, RANGE ADJUSTMET SCREW, SEAT SOLDER ADAPTER, FREE SPINNING VANDAL RESISTANT STOP CAP AND VACUUM BREAKER	-	NO APPROVED EQUAL

PLUMBIN	IG FIXTURE CONI	NECTION S	CHEDULE	
	WASTE	VENT	WATE	R SIZE
ITEM	SIZE	SIZE	HOT	COLD
WATER CLOSET(FLUSH VALVE)	4"	2"	-	1-1/2"
URINALS	2"	1-1/2"	-	1"
LAVATORIES	1-1/2"	1-1/2"	1/2"	1/2"
DRINKING FOUNTAIN	1-1/2"	1-1/2"	-	1/2"
FLOOR DRAINS/FLOOR SINKS	3"	1-1/2"	-	-
JANITORS SINK	3"	1-1/2"	3/4"	3/4"
TYPICAL WASTE STACK	4"	-	-	-
TYPICAL VENT STACK	-	3"	-	-

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PROJECT NAME JOHNSON COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street lowa City, Iowa 52240

PROJECT NO. 18.112

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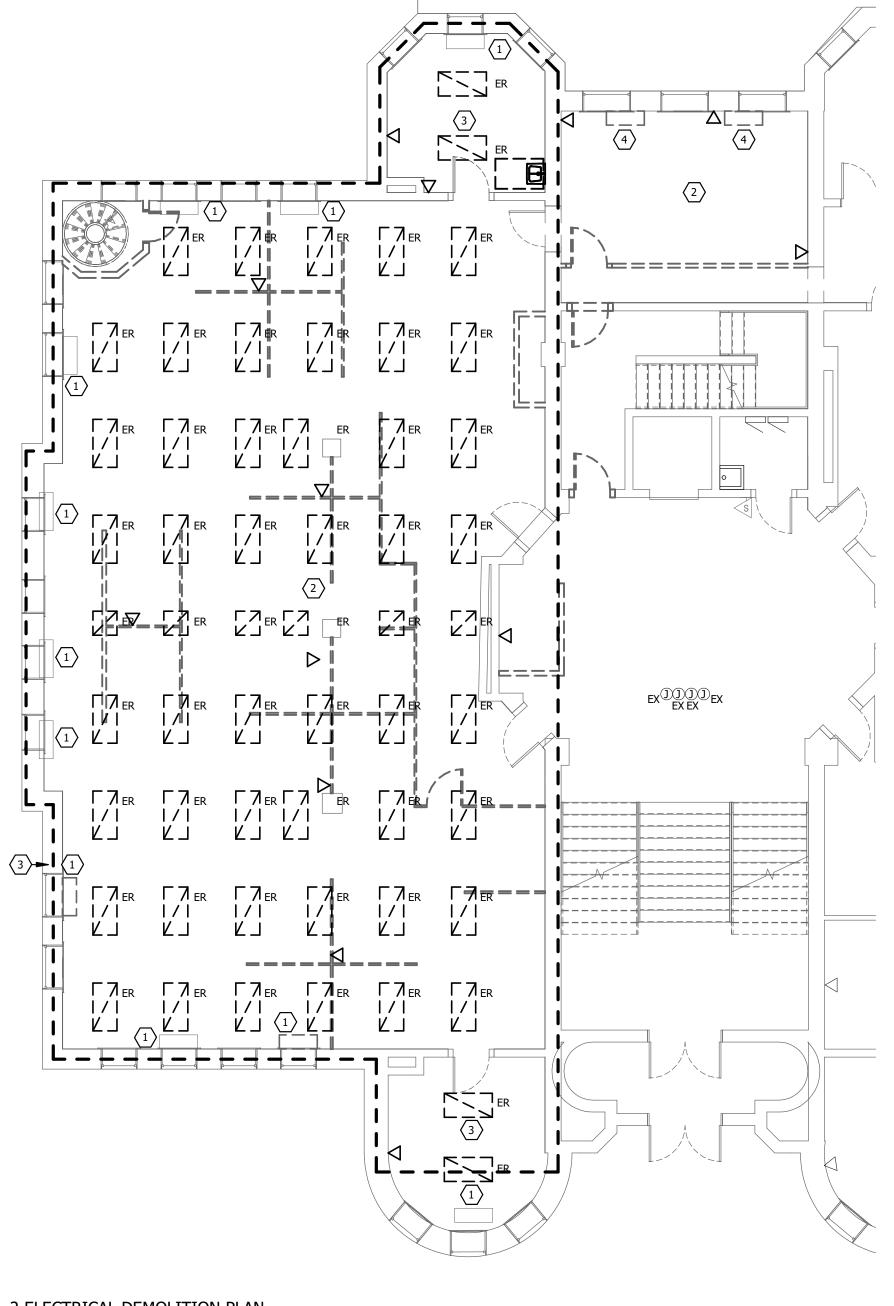
**MECHANICAL SCHEDULES** 

SHEET NUMBER

ALL SANITARY SEWER BELOW GRADE SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED.
 ALL VENT BELOW GRADE SHALL BE A MINIMUM OF 2" UNLESS OTHERWISE NOTED.
 NOT ALL FIXTURES ON THIS SCHEDULE MAY BE USED.

### **DEMO GENERAL NOTES:**

- AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD
- TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- DEMOLITION REQUIREMENTS.
- REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- DISCONNECT POWER TO FAN COIL UNIT TO BE REMOVED WITH FLOOR REPLACEMENT. PREPARE CIRCUITS TO BE RECONNECTED TO UNITS.
- REMOVE ALL LIGHTING, RECEPTACLES AND OTHER ELECTRICAL DEVICES UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE THE SCOPE OF REMODELING. REMOVE ASSOCIATED
- TEMPORARILY SUPPORT ALL ELECTRICAL SYSTEMS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF FLOOR SYSTEM. RESUPPORT EXISTING SYSTEMS AS REQUIRED. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.



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

- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS 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
- REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL
- ALL MECHANICAL EQUIPMENT TO BE REMOVED.
- EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING 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.

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

- CONDUCTORS AND RACEWAY COMPLETELY.
- DISCONNECT POWER TO MECHANICAL EOUIPMENT, REMOVE ALL ASSOCIATED RACEWAY AND CONDUCTORS BACK TO PANEL. BREAKER SHALL REMAIN IN PANEL AND BE LABELLED AS SPARE.

### PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION**

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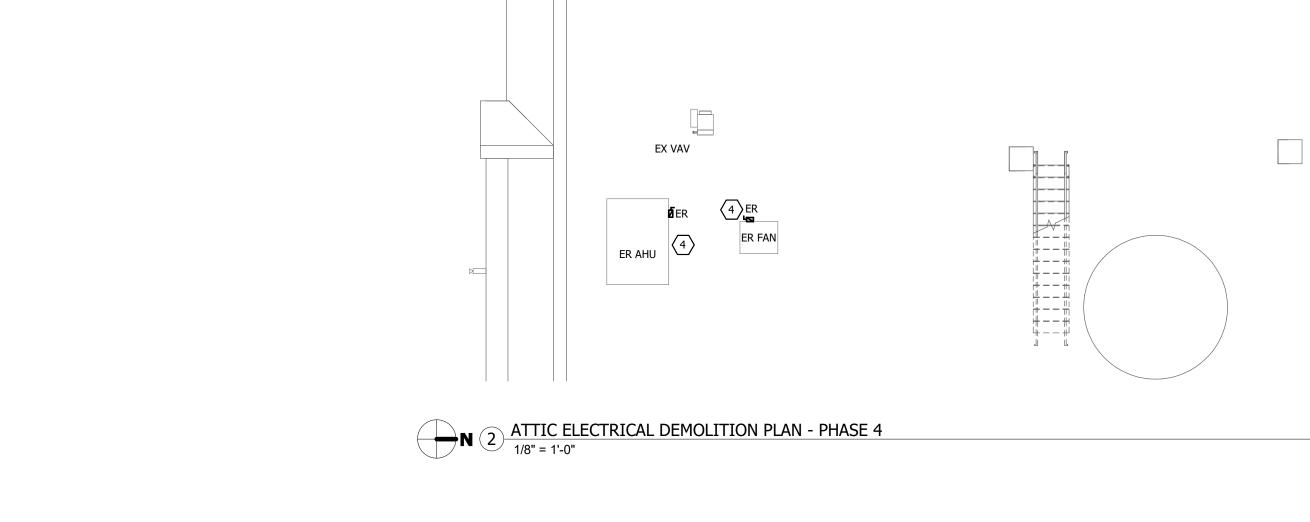
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SHEET NAME

**ELECTRICAL DEMOLITION PLAN** 

ED-101.4



21-163 JOHNSON CO COURTHOUSE REMODEL

## 1P3-15 STORAGE 1P3-14 1P3-15 STORAGE 1P3-16 1P3-16 1P3-16 1P3-16 1P3-17 1P3-17 1P3-17 1P3-17 1P3-18 1P3-19 1P3-

# ## PB-1 | FB-1 |

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

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₩-----

### **GENERAL NOTES:**

- A. 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.
- B. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & 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.
- D. ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS.
- E. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE 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.
- G. 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.
- ENGINEER.

  ALL FLOOR BOXES SHALL HAVE THEIR EXACT ROUGH-IN LOCATION DETERMINED BY DESIGN TEAM THROUGH DIMENSIONED DRAWINGS SIGNED BY OWNER PRIOR TO ROUGH-IN. LOCATIONS
- I. 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.

SHOWN ARE FOR BIDDING PURPOSES ONLY.

- J. REFER TO T-SHEETS FOR ADDITIONAL ROUGH-IN INFORMATION.
  ALL AUDIO INPUTS SHALL BE ROUGHED IN ADJACENT TO
  RECEPTACLES SHOWN ON THIS PLAN UNLESS NOTED OTHERWISE.
- K. PROVIDE ALL NEW ELECTRICAL DEVICES AND FACEPLATES FOR EXISTING (EX) DEVICES SHOWN.
- L. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING 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.
- M. CEILING CONTRACTOR SHALL PROVIDE AND INSTALL CEILING ACCESS PANELS FOR ACCESSIBILITY TO ELECTRICAL JUNCTION BOXES, PLUMBING VALVES, BALANCING DAMPERS, CIRCUIT SETTERS, ETC. WHERE ABSOLUTELY NECESSARY. LOCATIONS WILL NEED TO BE APPROVED AND COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.

### REFERENCED NOTES: (#)

- 1. CONNECT TO EXISTING SPARE BREAKER IN PANEL 2P2.
- 2. CONNECT TO EXISTING SPARE BREAKER IN PANEL 1P2.
- 3. UTILIZE EXISTING PATHWAYS STUBBED UP FROM FIRST FLOOR TO FEED POWER AND LOW VOLTAGE INTO COURT ATTENDANT DESK.
- 4. RECONNECT POWER TO FAN COIL UNIT. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

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MODUS Engineering

### JOHNSON COUNTY COURTHOUSE SECOND LEVEL COURTROOM RENOVATION

OWNER
JOHNSON COUNTY
913 South Dubuque Street

lowa City, Iowa 52240

**PROJECT NO.** 18.112

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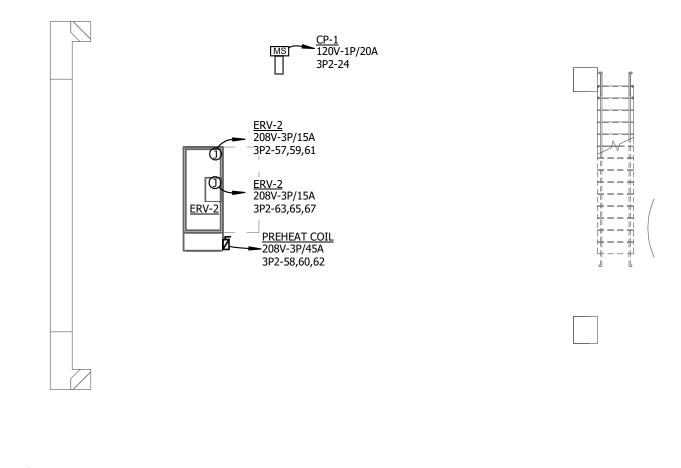
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SHEET NAME

ELECTRICAL POWER PLAN

SHEET NUM

E-101.4



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

CONSULTANTS

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### **GENERAL NOTES:**

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LIGHTING CONTROL SHALL OPERATE AUTO ON/AUTO OFF

LIGHTING CONTROL SHALL OPERATE MANUAL ON/MANUAL OFF.

WITH DIMMING CONTROL(S). LIGHTING ZONES SHALL BE AS SHOWN.

LIGHTING CONTROL SHALL OPERATE MANUAL ON/MANUAL OFF VIA DIMMING CONTROL(S).

LIGHTING CONTROL SHALL OPERATE MANUAL ON/AUTO OFF VIA OCCUPANCY SENSOR(S)

LIGHTING CONTROL SHALL OPERATE MANUAL ON/AUTO OFF VIA OCCUPANCY SENSOR(S)

LIGHTING CONTROL SHALL OPERATE AUTO ON TO 100% VIA OCCUPANCY SENSOR(S),

DIMMING TO 50% AFTER 30 MINUTES OF NO OCCUPANCY DETECTED AND TURNING OFF

EXACT DEVICE AND POWER PACK QUANTITIES SHALL BE DETERMINED DURING CONSTRUCTION BY THE LIGHTING CONTROLS MANUFACTURER.

N 1 LEVEL 2 - LIGHTING PLAN PHASE 5

VIA OCCUPANCY SENSOR(S) WITH MANUAL OVERRIDE.

**DEVICES** 

SINGLE ZONE WALL SWITCH(ES) - ON/OFF

SINGLE ZONE WALL SWITCH(ES) - ON/OFF/DIMMING

MULTI ZONE WALL STATION(S) - ON/OFF/DIMMING

SINGLE ZONE WALL SWITCH(ES) - ON/OFF

SINGLE ZONE WALL SWITCH(ES) - DIMMING

DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF

DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF

DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF

2P2 2P1

DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR(S) - 360 DEG/2000 SF

**DESCRIPTION** 

WITH DIMMING CONTROL(S).

REFER TO SPECIFICATION 26 0943 FOR FURTHER INFORMATION.

OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR A 30 MINUTE TIME DELAY.

PROVIDE PROPER NUMBER OF POWER PACKS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

SEQUENCE

- WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- SAME WALL ARE WITHIN 6" OF EACH OTHER.
- OCCUPANCY AND DAYLIGHT SENSORS SHALL BE LOCATED PER MANUFACTURER'S RECOMMENDATIONS. IN EVENT OF CONFLICT OF
- ASSOCIATED WITH THE LIGHTING CONTROLS. EACH AREA OF CONTROL SHALL HAVE A DEDICATED POWER PACK WITH ALL DEVICES SHOWN ON PLANS OPERATING TOGETHER.
- ALL LIGHTING FIXTURES SHALL BE INSTALLED IN SUCH WAY THAT DRIVERS ARE ACCESSIBLE WITHOUT CUTTING OF CEILING. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF AREAS WHERE THIS IS NOT
- DETERMINED BY DESIGN TEAM PRIOR TO ROUGH-IN.
- SIGNS REQUIRED FOR EMERGENCY EGRESS OPERATION. THE
- UNLESS NOTED OTHERWISE BY DESIGNATED "LIGHTING CONTROL ZONES",
- DURING COMMISSIONING. APPROVED BY THE ARCHITECT PRIOR TO ROUGH-IN. IF A DEVICE IS REQUIRED PER SPECIFICATION, REQUIRED FOR OPERATION, OR IS CLARIFICATION AND DIRECTION MUST BE GIVEN BY THE ARCHITECT PRIOR TO INSTALLATION SHALL BE CORRECTED AT CONTRACTORS EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO THERMOSTATS,
- PANELS FOR ACCESSIBILITY TO ELECTRICAL JUNCTION BOXES, PLUMBING VALVES, BALANCING DAMPERS, CIRCUIT SETTERS, ETC. WHERE ABSOLUTELY NECESSARY. LOCATIONS WILL NEED TO BE APPROVED AND COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.

### REFERENCED NOTES: (#)

- PROVIDE WALL SWITCH CONTROL FOR FAN SPEED.

- 1. CONNECT TO EXISTING SPARE BREAKER IN PANEL 2P2.
- CONNECT CEILING FAN TO LIGHTING CIRCUIT. FAN SHALL BE REJUVENATION HERON #A6821 CEILING FAN WITH AGED BRONZE FINISH AND OAK BLADES. ARCHITECT SHALL VERIFY FINISH DURING SUBMITTAL

### PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION**

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

<u> </u>	
ΓE	DESCRIPTION
3.2022	BIDDING DOCUMENTS

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SHEET NAME

**ELECTRICAL LIGHTING PLAN** 

E-201.4

21-163 JOHNSON CO COURTHOUSE REMODEL

- SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF
- COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS AND CASEWORK
- DESIGNED DRAWINGS AND MANUFACTURER RECOMMENDATIONS, ENGINEER SHALL BE NOTIFIED IMMEDIATELY. REFER TO SPECIFICATION SECTION 26 0943 FOR ADDITIONAL DETAILS
- ALL WALL-MOUNTED FIXTURES SHALL HAVE EXACT ROUGH-IN LOCATION
- THE ELECTRICAL CONTRACTOR SHALL EXTEND AN "UNSWITCHED" HOT CONDUCTOR FROM THE NEAREST NORMAL LIGHTING CIRCUIT TO EVERY UL924 LISTED EMERGENCY POWER PACK/TRANSFER DEVICE AND EXIT "UNSWITCHED" HOT CONDUCTOR SHALL BE USED FOR SENSING PURPOSES
- SWITCHES SHOWN WILL CONTROL ALL FIXTURES IN THE ROOM SHOWN.
- PROGRAMMABLE DEVICES SHALL BE CONFIGURED WITH THE CONTROL ZONES SHOWN ON THE PLANS AND SCENES PER CLIENT DIRECTION
- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND RCP'S SHALL BE REVIEWED AND DIFFERENT IN CONFIGURATION THAN SHOWN ON ELEVATIONS AND RCP'S, BEFORE ROUGH-IN. DEVIATIONS OR ADDITIONAL DEVICES NOT APPROVED CONTROL SYSTEM SENSORS, ELECTRICAL DEVICES, SWITCHES, DIMMERS, TECHNOLOGY DEVICES, A/V DEVICES, SPEAKERS, FIRE ALARM DEVICES,
- CEILING CONTRACTOR SHALL PROVIDE AND INSTALL CEILING ACCESS

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

Type Legend:

	LIGHTING FIXTURE SCHEDULE - PROJECT 5												
TYPE	BOD MANUFACTURER	MODEL NUMBER	DESCRIPTION	MOUNTING	CONTROL	LED/CCT/CRI	DELIVERED LUMENS	WATTAGE	VOLTAGE	APPROVED EQUALS			
EA	DUAL-LITE	EVCURW	LED COMBINATION EXIT/EMERGENCY LIGHT. WHITE FINISH. LITHIUM IRON PHOSPHATE BATTERY WITH ADJUSTABLE LED EMERGENCY LIGHTS.	CEILING	N/A	LED/RED	176	2.2	UNV	LITHONIA, MULE LIGHTING, LIGHTALARN EMERGI-LITE			
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, DAY-BRITE LITHONIA, METALUX			
WA	OCL	SC1-S1SC-07-WG-ORB-LED1-35K-UNV-DM1	SCHOOLHOUSE WALL SCONCE. 7" WHITE GLASS GLOBE. OIL RUBBED BRONZE FINISH. MOUNT +72" ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURE.	WALL	0-10V	LED/3500K/80	950	15	UNV	ENGINEER APPROVED			

- PROVIDE ALL PARTS AND PIECES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. CONTRACTOR SHALL INSTALL ALL FIXTURES PER MANUFACTURER RECOMMENDATIONS IN LOCATIONS SHOWN ON DRAWINGS. VERIFY ALL WALL MOUNTED FIXTURE LOCATIONS WITH THE LIGHTING DESIGNER AND ARCHITECT PRIOR TO ROUGH-IN.
- ARCHITECT SHALL SELECT ALL FINISH/COLORS AT TIME OF SUBMITTAL.

**S.C.C.R. Rating:** 10,000 A Mains Type: MCB

Mains Rating: 225 A MCB Rating: 125 A

COORDINATE ALL DRIVER WITH CONTROLS FOR COMPATIBILITY. VERIFY ALL FINAL CEILING TYPES AND MOUNTING CONFIGURATIONS PRIOR TO RELEASE OF FIXTURES.

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

	FLOOR BOX SCHEDULE											
	BOD											
TYPE	MANUFACTURER	MODEL	DIMENSION	DEVICES	DESCRIPTION							
FB-1	LEGRAND	EFB6S	13.75"W x 16.13"D x 4.13"H	6-GANG: (2) DUPLEX. SEE PLANS FOR DATA AND	STANDARD ACCESS FLOOR SERVICE BOX FOR POWER ANDLOW VOLTAGE							
				COMMUNICATION DEVICES AND CONNETIONS	APPLICATIONS. DESIGNED FOR INSTALLATION IN WOOD FLOORING. COORDINA							
					COVER WITH FLOOR COVERING.							

PROVIDE ALL COMPONENTS FOR A COMPLETE FLOOR BOX SYSTEM APPROPRIATE FOR FLOOR TYPE AND COVERING AT INSTALLATION LOCATION.

PROVIDE COLOR OPTIONS, EXACT FINISH AND COLOR SHALL BE DETERMINED DURING SUBMITTAL REVIEW BY ARCHITECT. ALL FLOOR BOXES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. VERIFY NUMBER OF RECEPTACLES AND LOW VOLTAGE CONNECTIONS ON DRAWINGS WITH ENGINEER PRIOR TO ORDERING.

TYPICAL DEVICE ELEVATION DETAIL

1/8" = 1'-0"

**BRANCH 2P2** Location: Volts: 120/208 Wye Supply From: 1P2 Mounting: Surface Enclosure: Type 1

SPD: NONE Notes: BREAKERS LABELLED "E" ARE EXISTING BREAKERS. VERIFY EXISTING LOADS AND BREAKERS PRIOR TO ANY DEMOLITION OR NEW WORK IN PANEL.

						A	В			С					
CKT	Circuit Description	Туре	Trip	Poles		1					Poles	Trip	Type	Circuit Description	CKT
2P2-1	ECP-1	Н	20 A	1	1008	0					1	20 A	E	SPARE	2P2-2
2P2-3	SPARE	E	20 A	1			0	0			1	20 A	E	SPARE	2P2-4
2P2-5	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	2P2-6
2P2-7	SPARE	E	20 A	1	0	0					1	20 A	E	SPARE	2P2-8
2P2-9	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	2P2-10
2P2-11	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	2P2-12
2P2-13	SPARE	E	20 A	1	0	0					1	20 A	E	SPARE	2P2-14
2P2-15	SPARE	E	20 A	1			0	0			1	20 A	E	SPARE	2P2-16
2P2-17	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	2P2-18
2P2-19	SPARE	E	20 A	1	0	0					1	20 A	E	SPARE	2P2-20
2P2-21	SPARE	E	20 A	1			0	0			1	20 A	E	SPARE	2P2-22
2P2-23	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	2P2-24
2P2-25	SPARE	E	20 A	1	0	0					1	20 A	Е	SPARE	2P2-26
2P2-27	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	2P2-28
2P2-29	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	2P2-30
2P2-31	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	2P2-32
2P2-33	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	2P2-34
2P2-35	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	2P2-36
2P2-37	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	2P2-38
2P2-39	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	2P2-40
2P2-41	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	2P2-42
2P2-43	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	2P2-44
2P2-45	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	2P2-46
2P2-47	SPARE	E	20 A	1					0	0	1	20 A	Е	SPARE	2P2-48
2P2-49	SPARE	E	20 A	1	0	0					1	20 A	Е	SPARE	2P2-50
2P2-51	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	2P2-52
2P2-53	SPACE	Е		1							1		Е	SPACE	2P2-54
2P2-55	SPACE	E		1							1		Е	SPACE	2P2-56
2P2-57	SPACE	E		1							1		Е	SPACE	2P2-58
2P2-59	SPACE	E		1							1		Е	SPACE	2P2-60
2P2-61	SPACE	E		1							1		Е	SPACE	2P2-62
2P2-63	SPACE	E		1							1		E	SPACE	2P2-64
2P2-65	SPACE	E		1							1		E	SPACE	2P2-66
2P2-67	SPACE	E		1							1		E	SPACE	2P2-68
2P2-69	SPACE	E		1							1		E	SPACE	2P2-70
2P2-71	SPACE	E		1							1		E	SPACE	2P2-72
-· - · ·				al Load:	100	8 VA	0	VA		VA					
1			- 4								_				

Load Classification Power	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
	1008 VA	100.00%	1008 VA		
				Total Conn. Load:	1.0 kVA
				Total Est. Demand:	1.0 kVA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

**BRANCH 1P3** Volts: 120/208 Wye **S.C.C.R. Rating:** 22,000 A Mains Type: MLO Supply From: MDP Mounting: Surface Mains Rating: 225 A Enclosure: Type 1 MCB Rating: NONE SPD: NONE Notes: BREAKERS LABELLED "E" ARE EXISTING BREAKERS. VERIFY EXISTING LOADS AND BREAKERS PRIOR TO ANY DEMOLITION OR NEW WORK IN PANEL.

01/=		A B C		С			_								
CKT	Circuit Description	Type E	Trip	Poles							Poles	Trip	Type	Circuit Description	СКТ
1P3-1			20 A	1	360	360					1	20 A	E	IT RACK	1P3-
1P3-3	TELECOM GEN. RECEPTS	E	20 A	1			1080	0			1	20 A	E	TELECOM LIGHTING	1P3-
1P3-5	FMS PANEL	E	20 A	1					180	0	1	20 A	E	FACP	1P3-
1P3-7	ACCESS CONTROL	E	20 A	1	0	180					1	20 A	E	EX FMS PANEL	1P3-
1P3-9	FCU	Е	20 A	1			0	180			1	20 A	E	COURTROOM COUNSEL	1P3-
1P3-11	COURTROOM IT	Е	20 A	1					360	1440	1	20 A	E	COURTROOM JUDGE	1P3-
1P3-13	COURTROOM COUNSEL	E	20 A	1	0	360					1	20 A	E	COURTROOM IT	1P3-
1P3-15	COURTROOM JUDGE	Ε	20 A	1			1440	0			1	20 A	E	COURTROOM COUNSEL	1P3-
1P3-17	COURTROOM COUNSEL	Е	20 A	1					0	0	1	20 A	Е	SPARE	1P3-
1P3-19	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	1P3-
1P3-21	SPARE	Е	20 A	1			0	0			1	20 A	E	SPARE	1P3-
1P3-23	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	1P3-
1P3-25	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	1P3-
1P3-27	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	1P3-
1P3-29	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	1P3-
1P3-31	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	1P3-
1P3-33	SPARE	E	20 A	1			0	0			1	20 A	E	SPARE	1P3-
1P3-35	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	1P3-
1P3-37	SPARE	 	20 A	1	0	0					1	20 A	 	SPARE	1P3-
1P3-39	SPARE	 E	20 A	1			0	0			1	20 A	 E	SPARE	1P3-
1P3-41	SPARE	E	20 A	1				0	0	0	1	20 A	 E	SPARE	1P3-
1P3-43	SPARE	 E	20 A	1	0	0			0	U	1	20 A	 E	SPARE	1P3-
1P3-45	SPARE	 E	20 A	1	U		0	0			1	20 A	<u>_</u>	SPARE	1P3-
1P3-47	SPARE	E	20 A	1			0	U	0	0	1	20 A	 	SPARE	1P3-
1P3-47	SPARE	E	20 A	1	0	0			-	0	1	20 A	 	SPARE	1P3-
1P3-49 1P3-51	SPARE	E	20 A	1	U	0	0	0			1	20 A	E	SPARE	1P3-
				-			U	U	0	0	1				
1P3-53	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	1P3-
1P3-55	SPARE	E	20 A	1	0	0		0			1	20 A	E	SPARE	1P3-
1P3-57	SPARE	E	20 A	1			0	0			1	20 A	E	SPARE	1P3-
1P3-59	SPARE	E	20 A	1					0	0	1	20 A	<u>E</u>	SPARE	1P3-
1P3-61	SPARE	Е	20 A	1	0	0					1	20 A	E	SPARE	1P3-
1P3-63	SPARE	Е	20 A	1			0	0			1	20 A	E	SPARE	1P3-
1P3-65	SPARE	E	20 A	1					0	0	1	20 A	E	SPARE	1P3-
1P3-67	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	1P3-
1P3-69	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	1P3-
1P3-71	SPACE	Ε		1							1		Ε	SPACE	1P3-
1P3-73	SPACE	Е		1							1		Е	SPACE	1P3-
1P3-75	SPACE	Ε		1							1		Е	SPACE	1P3-
1P3-77	SPACE	Ε		1							1		Ε	SPACE	1P3-
1P3-79	SPACE	Е		1							1		Е	SPACE	1P3-
1P3-81	SPACE	Е		1							1		Е	SPACE	1P3-
1P3-83	SPACE	E		1							1		Е	SPACE	1P3-

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

Total Amps:

11 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Power	5940 VA	100.00%	5940 VA	Total Conn. Load:	5.9 kVA
ighting	0 VA	0.00%	0 VA	Total Est. Demand:	5.9 kVA
				Total Conn. Current:	16 A
ower ghting				Total Est. Demand Current:	16 A
Notes:	1			-	

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PROJECT NAME **JOHNSON** COUNTY COURTHOUSE SECOND LEVEL COURTROOM **RENOVATION** 

JOHNSON COUNTY 913 South Dubuque Street

**PROJECT NO.** 18.112

lowa City, Iowa 52240

ISSUE						
DATE	DESCRIPTION					
09.23.2022	BIDDING DOCUMENTS					

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SHEET NAME

**DETAILS & SCHEDULES** 

SHEET NUMBER

lowa City, lowa 52240 319.338.7878

Des Moines, Iowa 50309 515.339.7800

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Neumann Monson Architects

221 East College Street | Suite 303

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PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM

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

**RENOVATION** 

**PROJECT NO.** 18.112

ISSUE		
DATE	DESCRIPTION	
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SHEET NAME **ELECTRICAL** 

**SCHEDULES** 

	BRANCH	3P2													
Notes: BF	Location: Supply From: Mounting: Enclosure: Available Isc: REAKERS LABELLED "E" A	Volts: 120/208 Wye Phases: 3 Wires: 4  NG BREAKERS. VERIFY EXISTING LOADS AND BREAKERS PRIOR T								S.C.C.R. Rating: 10,000A  Mains Type: MCB  Mains Rating: 250 A  MCB Rating: 225 A  SPD: NONE  TO ANY DEMOLITION OR NEW WORK IN PANEL.					
					,	<b>A</b>	ı	В		· · · · · · · · · · · · · · · · · · ·					
СКТ	Circuit Description	Туре	Trip	Poles							Poles	Trip	Туре	Circuit Description	СКТ
3P2-1	PREHEAT COIL	E	45 A	3	0	0					1	20 A	E	CP-1	3P2-2
3P2-3							0	360			1	20 A	Е	IT RACK	3P2-4
3P2-5		_							0	1260	1	20 A	E	OFFICE - 03Q	3P2-6
3P2-7	ERV-1	E	15 A	3	3150	0					3	15 A	Е	ERV-1	3P2-8
3P2-9							3150	0	0.450	0					3P2-10
3P2-11	 OFFICE 02D				000	000			3150	0				 OFFICE 020	3P2-12
3P2-13	OFFICE - 03P OFFICE - 03N	E E	20 A	1	900	900	1000	900			1	20 A	E	OFFICE - 030 MULTI-USE - 3R	3P2-14 3P2-16
3P2-15 3P2-17	BREAK/RR 03S/03T	E	20 A 20 A	1			1080	900	720	180	1	20 A 20 A	E G	FRIDGE	3P2-16 3P2-18
3P2-17	LIGHTING OFFICES	E	20 A	1	1265	0			120	100	1	15 A	E	FCU	3P2-10
3P2-19	FCU	E	15 A	1	1203	U	0	0			1	15 A	E	FCU	3P2-20
3P2-23	SPARE	E	20 A	1			0	U	0	0	1	20 A	E	CP-1	3P2-24
3P2-25	SPARE	E	20 A	1	0	0			-	0	1	20 A	E	SPARE	3P2-26
3P2-27	SPARE	E	20 A	1	U	0	0	0			1	20 A	E	SPARE	3P2-28
3P2-29	SPARE	E	20 A	1			U	U	0	0	1	20 A	E	SPARE	3P2-30
3P2-31	SPARE	E	20 A	1	0	0			-	U	1	20 A	E	SPARE	3P2-32
3P2-33	SPARE	E	20 A	1	U	0	0	0			1	20 A	E	SPARE	3P2-34
3P2-35	SPARE	E	20 A	1				0	0	0	1	20 A	E	SPARE	3P2-36
3P2-37	SPARE	E	20 A	1	0	0				0	1	20 A	E	SPARE	3P2-38
3P2-39	SPARE	E	20 A	1	-		0	0			1	20 A	E	SPARE	3P2-40
3P2-41	SPARE	E	20 A	1				- C	0	0	1	20 A	E	SPARE	3P2-42
3P2-43	SPARE	E	20 A	1	0	0					3	20 A	E	SPARE	3P2-44
3P2-45	SPARE	E	20 A	1		-	0	0					_		3P2-46
3P2-47	SPARE	E	20 A	3					0	0					3P2-48
3P2-49					0	0					2	20 A	E	SPARE	3P2-50
3P2-51							0	0							3P2-52
3P2-53	SPARE	E	60 A	2					0	0	2	60 A	Е	SPARE	3P2-54
3P2-55					0	0									3P2-56
3P2-57	ERV-2		15 A	3			0	0			3	45 A		PREHEAT COIL	3P2-58
3P2-59									0	0					3P2-60
3P2-61					0	0									3P2-62
3P2-63	ERV-2		15 A	3			0				1			SPACE	3P2-64
3P2-65									0		1			SPACE	3P2-66
3P2-67					0						1			SPACE	3P2-68
3P2-69	SPACE			1							1			SPACE	3P2-70
3P2-71	SPACE			1							1			SPACE	3P2-72
				al Load:	621	5 VA	549	0 VA		) VA					
Total Amps:						2 A	46	6 A	44	Α					
<b>Type Leg</b> e N=NORM/	end: AL G=GFI M=MOTORIZED	E=EXIS	TING S	T=SHUN	T TRIP A	A=ARC FA	AULT H=H	ANDLE LO	OCK						
Load Classification				nnected	Load		nd Factor	Est	imated De	mand				Panel Totals	
HVAC				0 VA		0	.00%	1	0 VA		l				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel To	tals
HVAC	0 VA	0.00%	0 VA		
Other	0 VA	0.00%	0 VA	Total Conn. Load:	17.0 kVA
Power	15750 VA	100.00%	15750 VA	Total Est. Demand:	17.3 kVA
Lighting	1265 VA	125.00%	1581 VA	Total Conn. Current:	47 A
				Total Est. Demand Current:	48 A

### **BRANCH 1P2**

Location: Volts: 120/208 Wye Supply From: Phases: 3 Mounting: Surface Wires: 4 Enclosure: Type 1

### Notes: BREAKERS LABELLED "E" ARE EXISTING BREAKERS. VERIFY EXISTING LOADS AND BREAKERS PRIOR TO ANY DEMOLITION OR NEW WORK IN PANEL.

						Α		В		C					
CKT	Circuit Description	Type	Trip	Poles							Poles	Trip	Туре	Circuit Description	СКТ
-1	SPARE	Е	25 A	2	0	0					2	20 A	Е	SPARE	-2
-3							0	0							-4
-5	SPARE	Е	20 A	2					0	0	3	20 A	Е	SPARE	-6
-7					0	0									-8
-9	SPARE	E	30 A	1			0	0							-10
-11	SPARE	E	20 A	1					0	0	1	20 A	Е	SPARE	-12
-13	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	-14
-15	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	-16
-17	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	-18
-19	SPARE	Е	20 A	1	0	0					1	20 A	E	SPARE	-20
-21	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	-22
-23	SPARE	E	20 A	1					0	0	1	20 A	Е	SPARE	-24
-25	SPARE	E	20 A	1	0	0					1	20 A	E	SPARE	-26
-27	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	-28
-29	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	-30
-31	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	-32
-33	SPARE	Е	20 A	1			0	0			1	20 A	Е	SPARE	-34
-35	SPARE	E	20 A	1					0	0	1	20 A	Е	SPARE	-36
-37	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	-38
-39	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	-40
-41	SPARE	Е	20 A	1					0	0	1	20 A	Е	SPARE	-42
-43	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	-44
-45	SPARE	Е	20 A	1			0	0			1	20 A	E	SPARE	-46
-47	SPARE	E	20 A	1					0	0	1	20 A	Е	SPARE	-48
-49	SPARE	Е	20 A	1	0	0					1	20 A	Е	SPARE	-50
-51	SPARE	E	20 A	1			0	0			1	20 A	Е	SPARE	-52
-53	SPACE	E		1						0	1	20 A	E	SPARE	-54
-55	SPACE	Е		1							1		Е	SPACE	-56
-57	SPACE	Е		1							1		Е	SPACE	-58
-59	SPACE	Е		1							1		Е	SPACE	-60
-61	SPACE	Е		1							1		Е	SPACE	-62
-63	SPACE	Е		1							1		E	SPACE	-64
-65	SPACE	Е		1							1		Е	SPACE	-66
-67	2P2	Е	125 A	3	1008						1		Е	SPACE	-68
-69							0				1		Е	SPACE	-70
-71									0		1		Е	SPACE	-72
			Tota	al Load:	100	8 VA	0	VA	0 '	VA					
			Total	l Amps:	8	Α	(	) A	0	Α					

		10	nai Ailips.	0 A	UA
Type Legend:					
N=NORMAL G=GFI	M=MOTORIZED	E=EXISTING	ST=SHUNT TRIP	A=ARC FAULT H=	HANDLE LOCK

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	1008 VA	100.00%	1008 VA		
				Total Conn. Load:	1.0 kVA
				Total Est. Demand:	1.0 kVA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Mains Type: MCB Mains Rating: 225 A

MCB Rating: 225 A SPD: NONE

S.C.C.R. Rating: 10,000 A

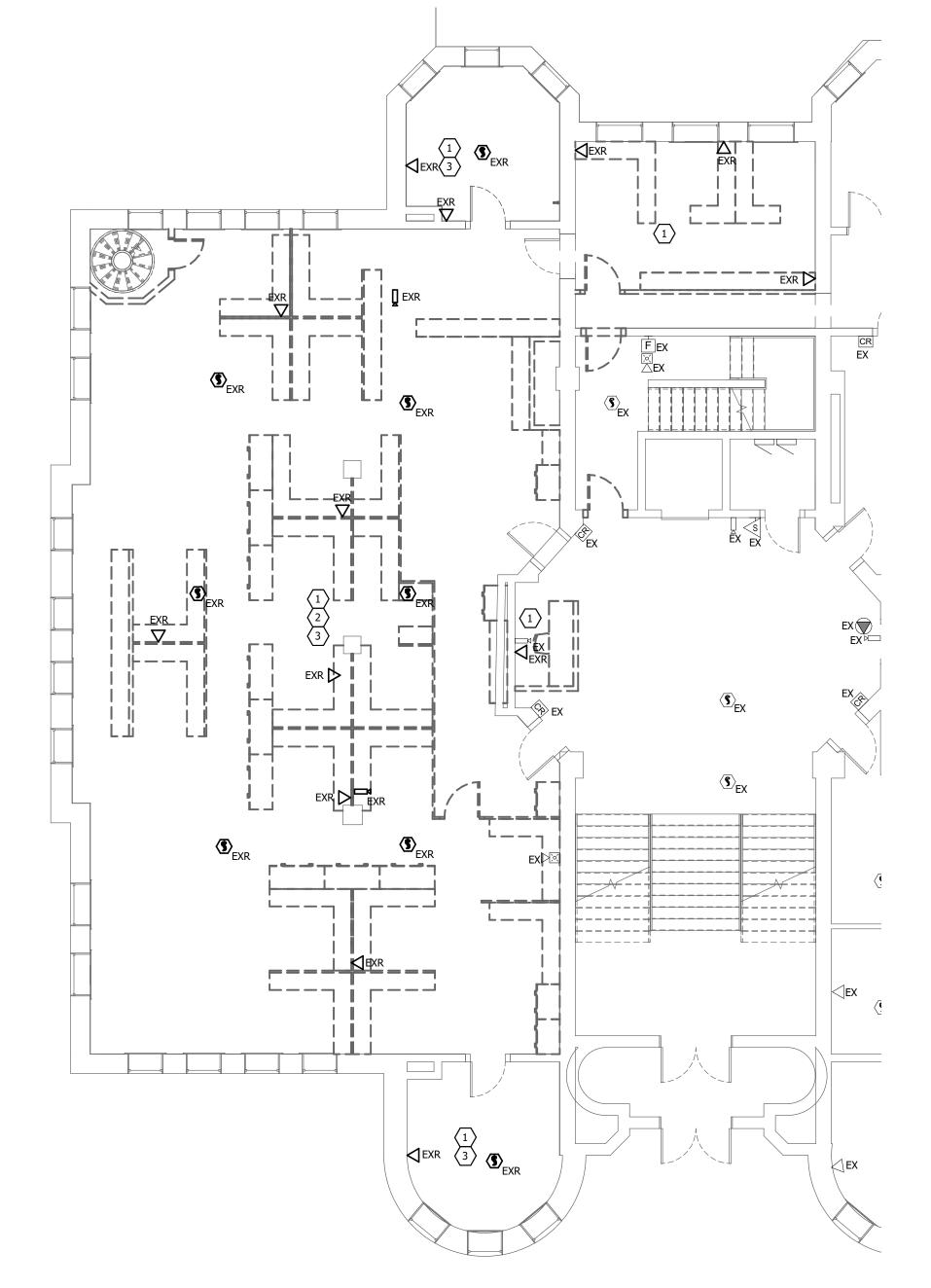
TB Version

### **DEMO GENERAL NOTES:**

- A. 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.
  - B. 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
- C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- D. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- E. 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: (#)

- TEMPORARILY SUPPORT ALL LOW VOLTAGE SYSTEMS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF FLOOR SYSTEM. RESUPPORT EXISTING SYSTEMS AS REQUIRED. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
- SE 2. CATEGORY CABLE INSTALLED AS PART OF CLERK OF COURTS PROJECT MAY
  BE BE PULLED BACK AND COILED ABOVE CEILING FOR REUSE WHERE
- 3. CEILING DEVICES SHALL BE REMOVED AND RELOCATED AS PART OF THE COURTROOM BUILD OUT.
  - FIRE ALARM DEVICES SHALL BE TAKEN DOWN STORED, CLEANED, AND REINSTALLED AT NEW LOCATIONS.
     SECURITY CAMERAS SHALL BE TAKEN DOWN, CLEANED AND TURNED OVER TO OWNER.



N 1 LEVEL 2 LOW VOLTAGE DEMOLITION PLAN
1/8" = 1'-0"

ARCHITECT OF RECORD

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PROJECT NAME
JOHNSON
COUNTY
COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION

OWNER
JOHNSON COUNTY
913 South Dubuque Street

PROJECT NO. 18.112

lowa City, Iowa 52240

SUE	
ATE	DESCRIPTION
.23.2022	BIDDING DOCUMENTS

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SECOND LEVEL
LOW VOLTAGE
DEMOLITION PLAN

SHEET NUMBER

TD-101.4

### PROJECT NAME **JOHNSON** COUNTY COURTHOUSE **SECOND LEVEL** COURTROOM **RENOVATION**

ARCHITECT OF RECORD

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JOHNSON COUNTY

PROJECT NO. 18.112

lowa City, Iowa 52240

913 South Dubuque Street

UE	
TE	DESCRIPTION
23.2022	BIDDING DOCUMENTS

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SHEET NAME

**SECOND LEVEL LOW VOLTAGE PLAN** 

SHEET NUMBER

T-101.4

### **GENERAL NOTES:**

- WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
- TO AVOID OBSTRUCTIONS.
- ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE
- COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR
- CONTRACTOR PRIOR TO INSTALLATION. COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS,
- CASEWORK SUBMITTALS, & OWNER PROVIDED EQUIPMENT. ALL DEVICES CALLED OUT TO BE INSTALLED AT NON-STANDARD HEIGHTS SHALL BE VERIFIED WITH DESIGN TEAM PRIOR TO
- ALL NEW WORK INDICATED IN EXISTING WALLS SHALL BE INSTALLED WITH CONCEALED WIRING AND FLUSH-MOUNTED DEVICES. CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR.
- FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED WITHIN 36 INCHES HORIZONTALLY FROM FORCED AIR HVAC DIFFUSERS OR THE END OF CEILING FAN BLADES.
- WIRELESS ACCESS POINTS (WAP) SHALL BE OWNER FURNISHED, 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 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.

- SURFACE RACEWAY IS NOT TO BE USED IN ANY FINISHED AREAS
- ALL CABLE TRAY ROUTING IS FOR SCHEMATIC PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUTING OF CABLE TRAY WITH OTHER TRADES, AND WHEN NECESSARY TRANSITION
  - PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING PUSHBUTTONS, AND OTHER ACCESSORIES WITH ARCHITECT AND DESIGN TEAM PRIOR TO ROUGH-IN. PROVIDE NEW HOLD UP STYLE DURESS BUTTON, ALARM CONTROLS
  - SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER. TS-18 OR APPROVED EQUIVALENT, MOUNTED UNDER COUNTER AND TIED BACK TO ALARM PANEL.
    - COORDINATE LOCATION OF 18"X18"X6" CONSOLIDATION BOX FOR

REFERENCED NOTES: (#)

NEEDS AND LOCATIONS.

AV SYSTEMS SHALL BE PROVIDED BY OWNER'S CONTRACTOR.

ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT ROUGH-IN

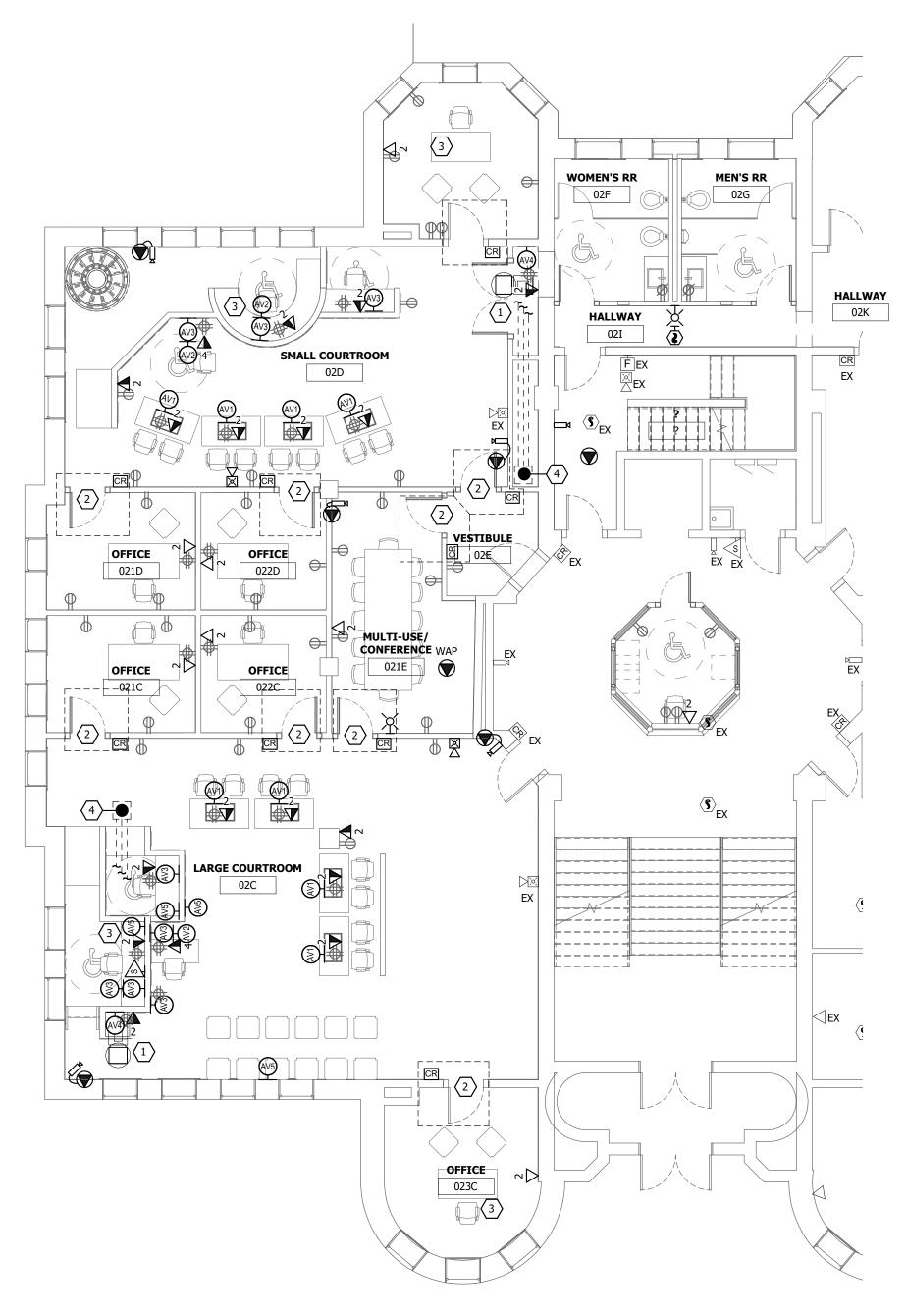
ACCESS CONTROL LOCATION. REFER TO LOW VOLTAGE DETAILS

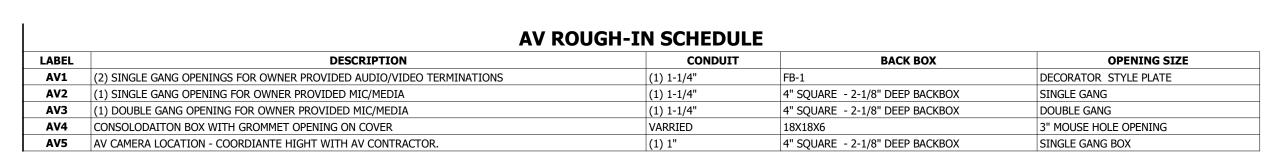
AND ARCHITECTURAL SPECIFICATION SECTION 08-7100 FOR

COORDINATE ALL DOORHOLDS, CARD READERS, ADA

OPERATION AND FURTHER ROUGH-IN/BIDDING INFORMATION.

AV CABLING. LOCATION SHALL BE IN FUTURE HALLWAY TO ENSURE UNINTERPED ACCESS. PROVIDE (3) 2" CONDUITS TO "AV4" IN ASSOCIATED COURT ROOM.



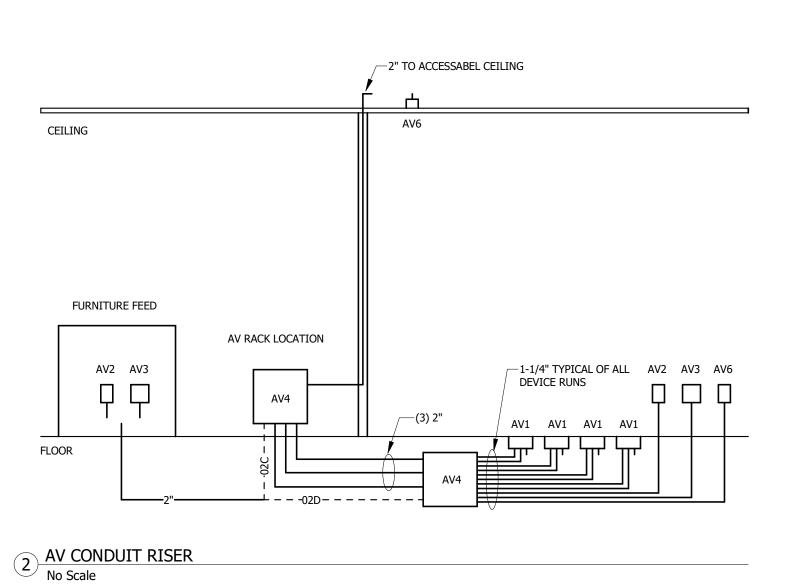


**GENERAL NOTES:** 

A. COORDINATE WITH AV CONTRACTOR ON EXACT ROUGH IN HEIGHT AND LOCATION.

B. ALL BACKBOXES AND CONDUIT SHALL BE PROVIDED BY THE ELETRICAL CONTACTOR UNLESS OTHERWISE SPECIFIED.

C. AV CONTRACOR IS RESPONSIBLE FOR ALL CABLING AND DEVICES.



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lowa City, lowa 52240

PROJECT NAME

**JOHNSON** 

**COURTHOUSE** 

SECOND LEVEL

**COURTROOM** 

**RENOVATION** 

JOHNSON COUNTY

DESCRIPTION

BIDDING DOCUMENTS

913 South Dubuque Street lowa City, Iowa 52240

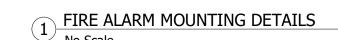
**PROJECT NO.** 18.112

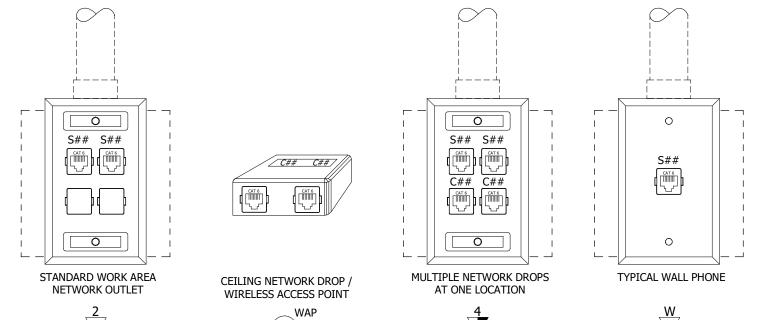
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COUNTY

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MINIMUM CONDUIT SIZE FOR LOW VOLTAGE WIRING SHALL BE 1". REFER TO SPECIFICATIONS FOR DETAILS.

ALL STANDARD WORK AREA OUTLETS SHALL BE PROVIDED WITH 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

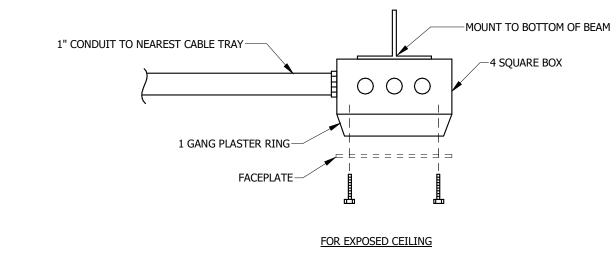
ALL STATE WORK AREA OUTLET TERMINATIONS SHALL BE GREEN IN COLOR.

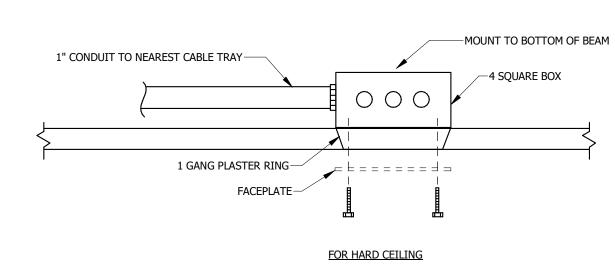
ALL COUNTY WORK AREA OUTLET TERMINATIONS SHALL BE

### **J-HOOK PATHWAY GENERAL NOTES:**

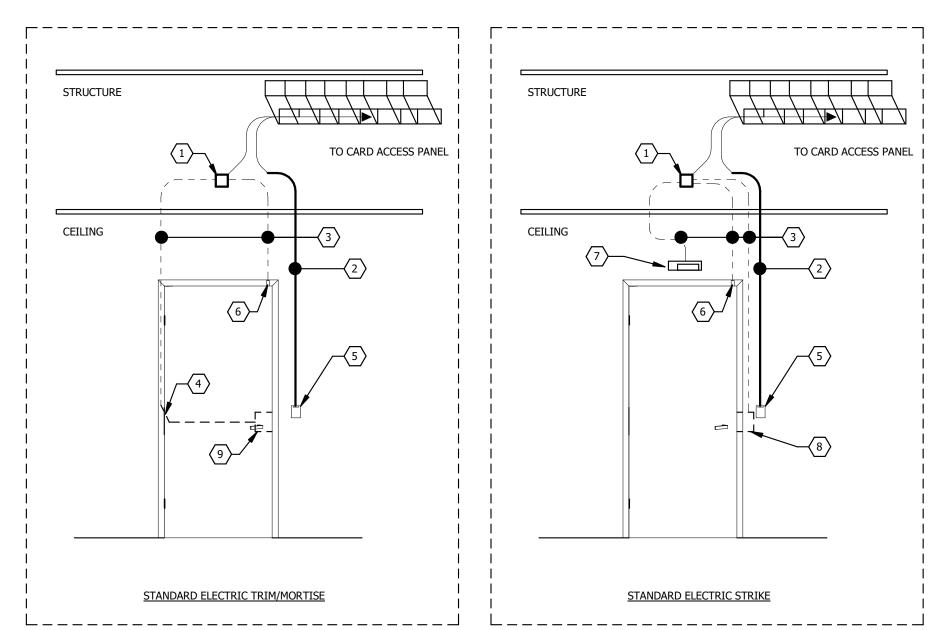
- THIS DETAIL ILLUSTRATES ACCEPTABLE INSTALLATION PRACTICES IN ACCESSIBLE CEILING AREAS. IN **EXPOSED CEILING LOCATIONS, CABLING SHALL BE CONCEALED IN CONDUIT.**
- J-HOOKS SHALL BE SPACED AT A MAXIMUM OF NO MORE THAN 5 FEET APART. LOOSELY BUNDLE CABLE AND MANAGE UTILIZING VELCRO STRIPS.
- KEEP ALL DATA CABLING ISOLATED FROM OTHER SYSTEMS. J-HOOK SYSTEM SHALL ALLOW OTHER HOOKS TO ATTACH IN A 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 TILES AND ABOVE CEILING EQUIPMENT.

2 J-HOOK PATHWAY DETAIL ✓ No Scale





3 LOW VOLTAGE CEILING ROUGH-IN DETAIL



\_\_\_\_\_\_\_\_\_\_ STRUCTURE TO CARD ACCESS PANEL CEILING STANDARD ELECTRIC STRIKE

**ACCESS CONTROL GENERAL NOTES:** 

- DETAIL DRAWINGS ARE INTENDED TO REFLECT ACCEPTABLE INSTALLATION PRACTICES. INDIVIDUAL DOOR OPENINGS ARE NOT SHOWN AND WILL NEED TO BE COORDINATED WITH DIV 08 7100 SPECIFICATION. FINAL ROUGH IN DRAWINGS FOR INDIVIDUAL DOORS SHALL BE PROVIDED BY SECURITY CONTRACTOR.
- COORDINATE FIRE ALARM DOOR RELEASE CONNECTIONS WITH FIRE ALARM CONTRACTOR.
- COORDINATE EXACT LOCATIONS OF PUSH BUTTONS, CARD READERS, AND DURESS BUTTONS WITH OWNER.

### ACCESS CONTROL REFERENCED NOTES:

- 4 SQ JUNCTION BOX PROVIDED BY ELECTRICAL CONTRACTOR IN ACCESSIBLE CEILING SPACE ON SECURE SIDE OF DOOR.
- 3/4" CONDUIT RACEWAY WITH STRING PROVIDED BY ELECTRICAL CONTRACTOR
- 1/2" FLEX RACEWAY WITH STRING PROVIDED BY ELECTRICAL CONTRACTOR
- POWER TRANSFER HINGE PROVIDED BY DOOR HARDWARE CONTRACTOR COORDINATE WITH DIVISION 08 CONTRACTOR ON FINAL LOCK CONNECTIONS WITH SYSTEMS BEING
- CARD READER PROVIDED BY SECURITY CONTRACTOR
- DOOR POSITION SWITCH COORDINATE LOCATION WITH DOOR HARDWARE CONTRACTOR
- MOTION REQUEST TO EXIT PROVIDED BY SECURITY CONTRACTOR
- ELECTRIFIED STRIKE PROVIDED BY DOOR HARDWARE CONTRACTOR
- MORTISE LOCK PROVIDED BY DOOR HARDWARE CONTRACTOR

ACCESS CONTROL DETAIL

### MATRIX OF RESPONSIBILITIES FOR DOOR HARDWARE

SYSTEM FOR OPERATION.

### **ELECTRICAL CONTRACTOR (SPECIFICATION SECTION 26) DOOR HARDWARE CONTRACTOR (SPECIFICATION SECTION 08 7100)** ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS

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

IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- 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
- ALL CONDUIT PATHWAYS AS IT IS REQUIRED FOR THE AUTOMATIC DOOR OPERATORS AND ACTUATORS.
- 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 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 CIRCUITING INFORMATION.
- 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 HARDWARE CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- ALL ELECTRIFIED 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.
- 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.
- COORDINATE ALL INTEGRATED ACCESS CONTROL DEVICES SUCH AS INTEGRATED PROXIMITY READERS WITH THE ACCESS CONTROL CONTRACTORS FOR COMPATIBILITY, OPERATION, AND SEAMLESS INTEGRATION.

### DOOR ACCESS CONTRACTOR

DOOR ACCESS CONTROL CONTRACTOR SHALL <u>PROVIDE AND INSTALL</u> ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- 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
- 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. 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.
- SOFTWARE PROGRAMMING FOR EACH INDIVIDUAL OPENING. COORDINATE ALL UNLOCK/LOCK DOOR SCHEDULES AND DOOR LABELING SCHEME WITH OWNER PRIOR
- 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 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.
- 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.

FINAL PERFORMANCE TESTING OF EACH LOCATION SHALL BE PROVIDED BY THE

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

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> SHEET NAME **LOW VOLTAGE**

**DETAILS** 

SHEET NUMBER

21-163 JOHNSON CO COURTHOUSE REMODEL