

# COURTROOM RENOVATION PROJECT FOR: CLARK COUNTY COURTHOUSE BRANCH 2 - PHASE 1

517 COURT STREET, NEILLSVILLE WI 54456

## PROJECT DIRECTORY:

### OWNER'S REPRESENTATIVE:

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LANDON J. JULSON, DES  
landonj@apexengineering.biz

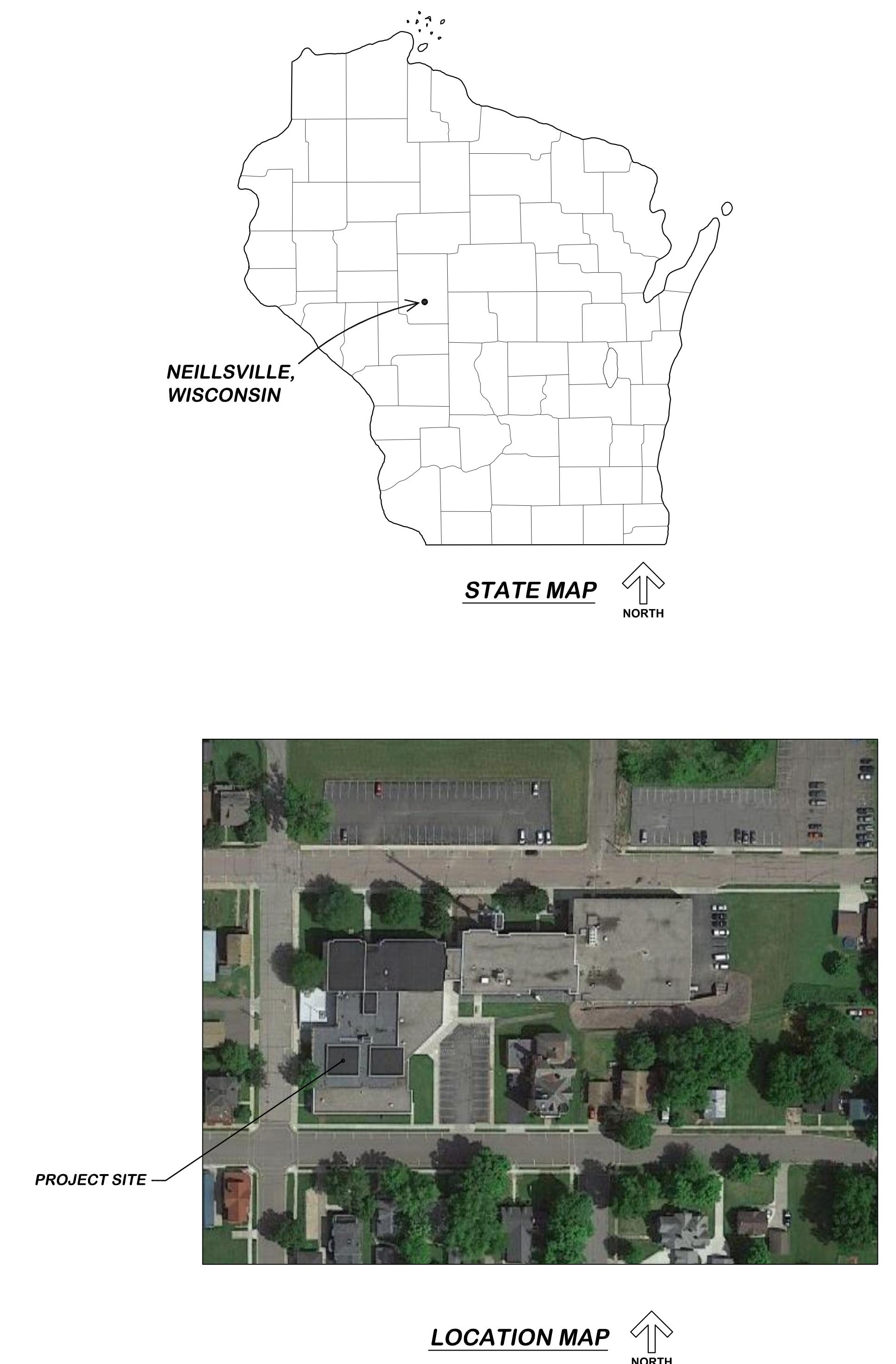
### ELECTRICAL ENGINEER:

APEX ENGINEERING  
110A EAST GRAND AVENUE  
EAU CLAIRE, WISCONSIN 54701  
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### PLUMBING DESIGNER:

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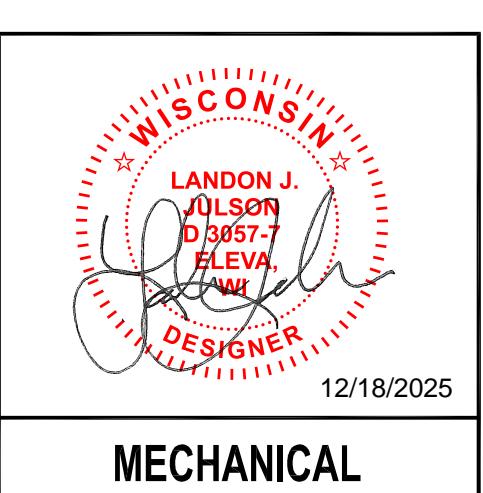
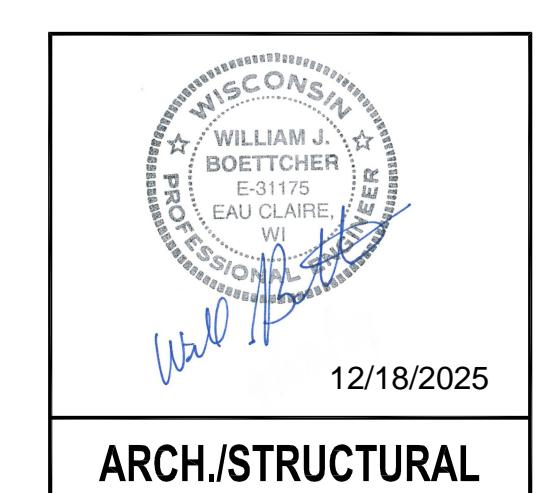
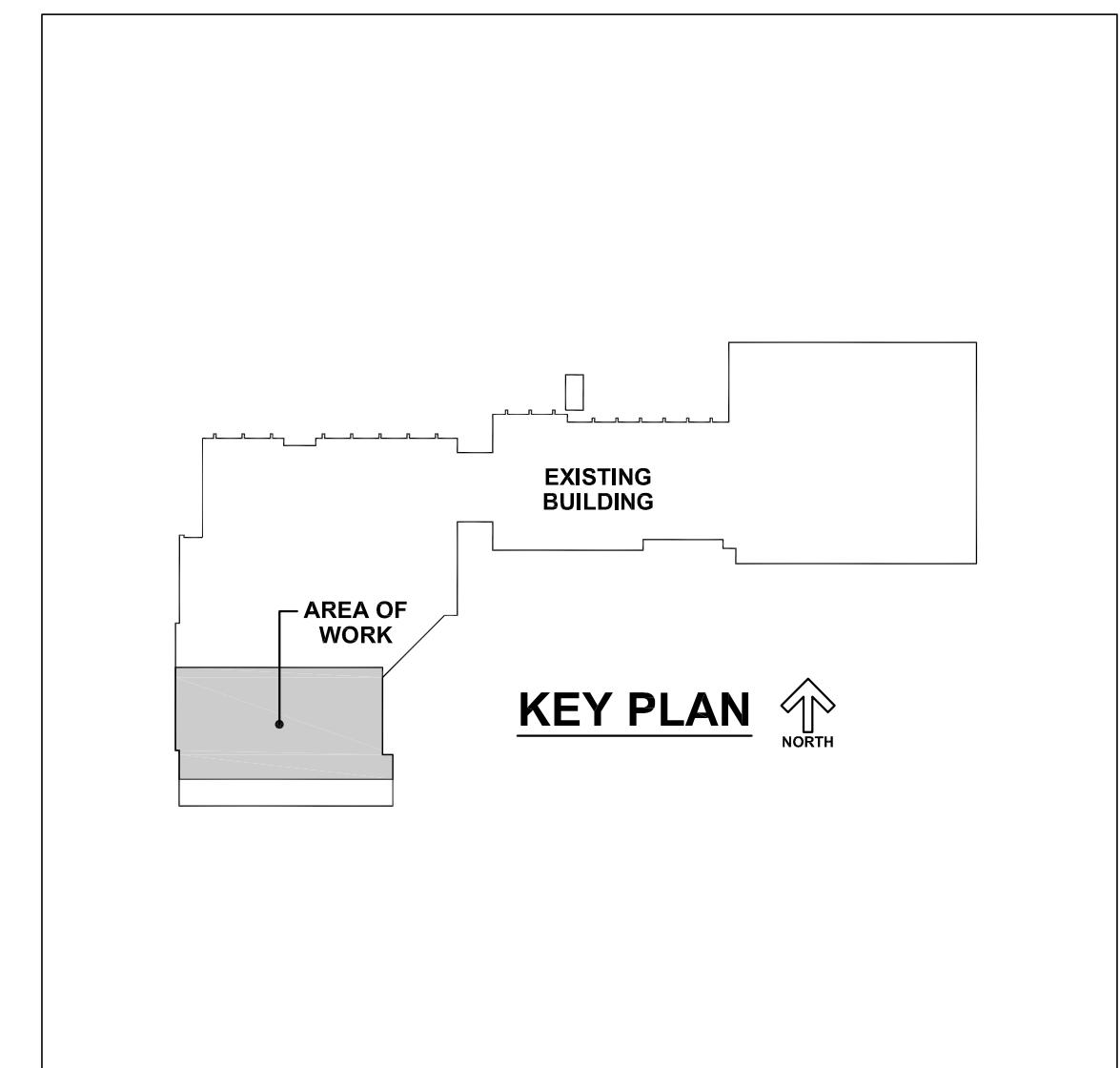
ARCHITECT/STRUCTURAL ENGINEER:  
LIEN & PETERSON ARCHITECTS, INC.  
4675 ROYAL DRIVE  
EAU CLAIRE, WISCONSIN 54701  
PHONE: 715-835-7500  
BILL BOETTCHER, P.E.  
admin@2dlp.com



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P301	PLUMBING SCHEMATICS

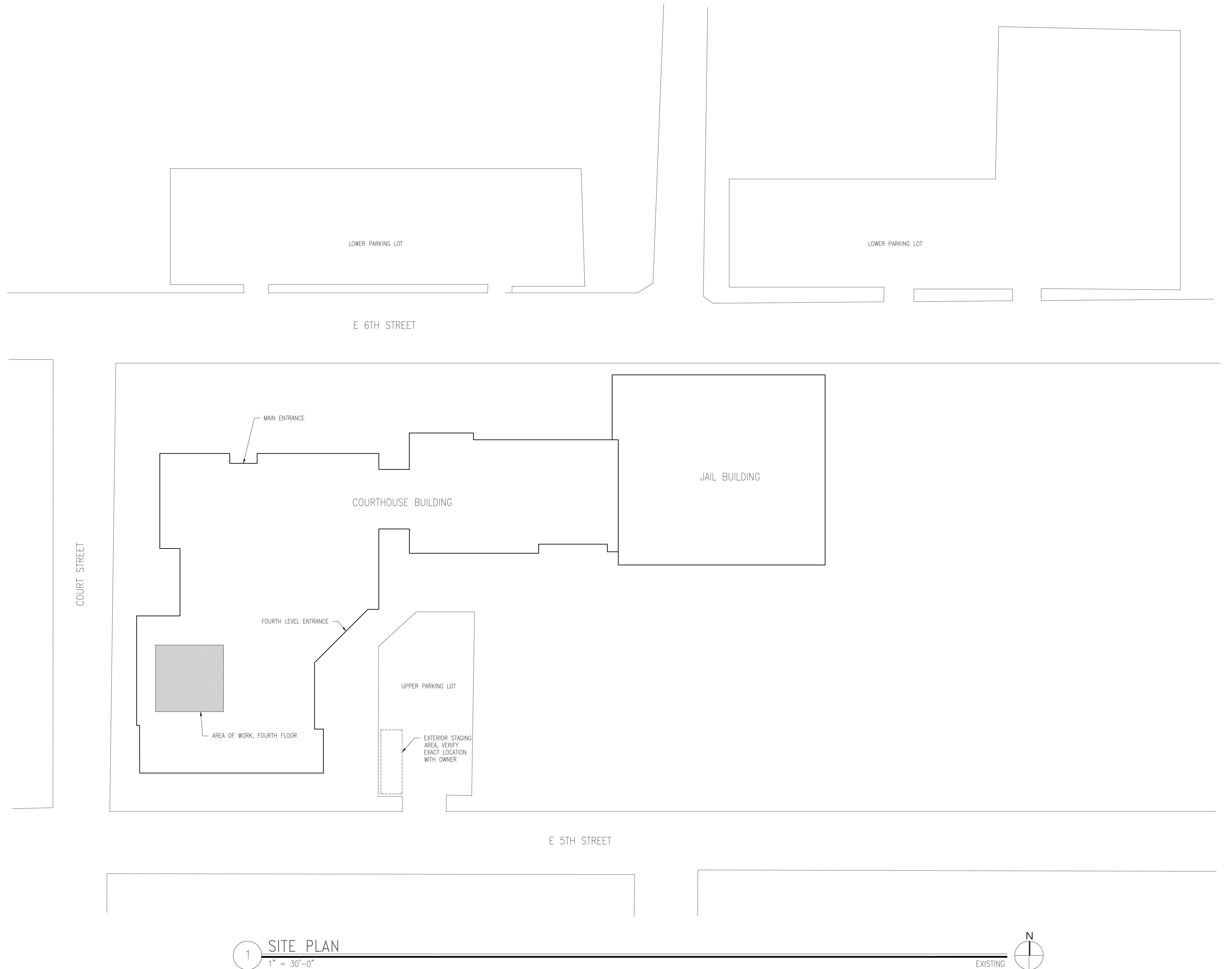


COURTROOM RENOVATION PROJECT FOR  
CLARK COUNTY COURTHOUSE  
BRANCH 2 - PHASE 1  
517 COURT STREET, NEILLSVILLE, WISCONSIN 54456



## PROJECT STAMPS

TITLE:	TITLE SHEET	
DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY		
DOCUMENT PHASE:	BIDDING DOCUMENTS	
PROJECT NO.:	25001	
DRAWN BY:	LJJ	
DESIGNED BY:	LJJ	
DATE:	12/18/2025	
REV.: DATE: REMARK:		
SHEET:	T100	





## CLARK COUNTY COURTHOUSE

511 COURT STREET, NEILLSVILLE, WISCONSIN 54456

### TITLE: BUILDING CODE COMPONENTS

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

### DOCUMENT PHASE: BIDDING DOCUMENTS

PROJECT NO:  
25001

DRAWN BY:  
AHW

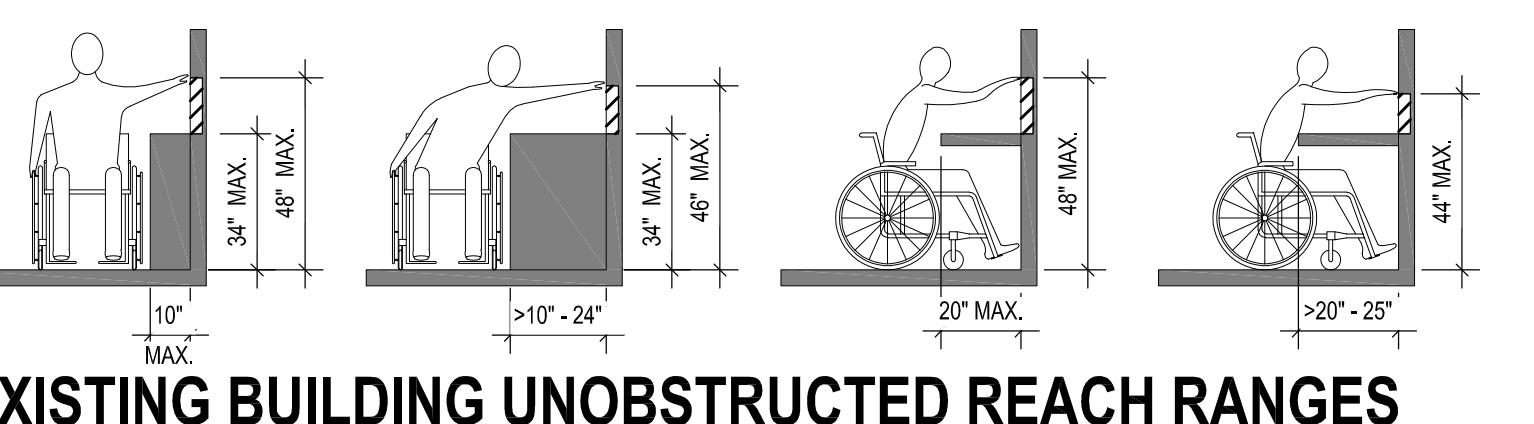
DESIGNED BY:

DATE:  
12/18/2025

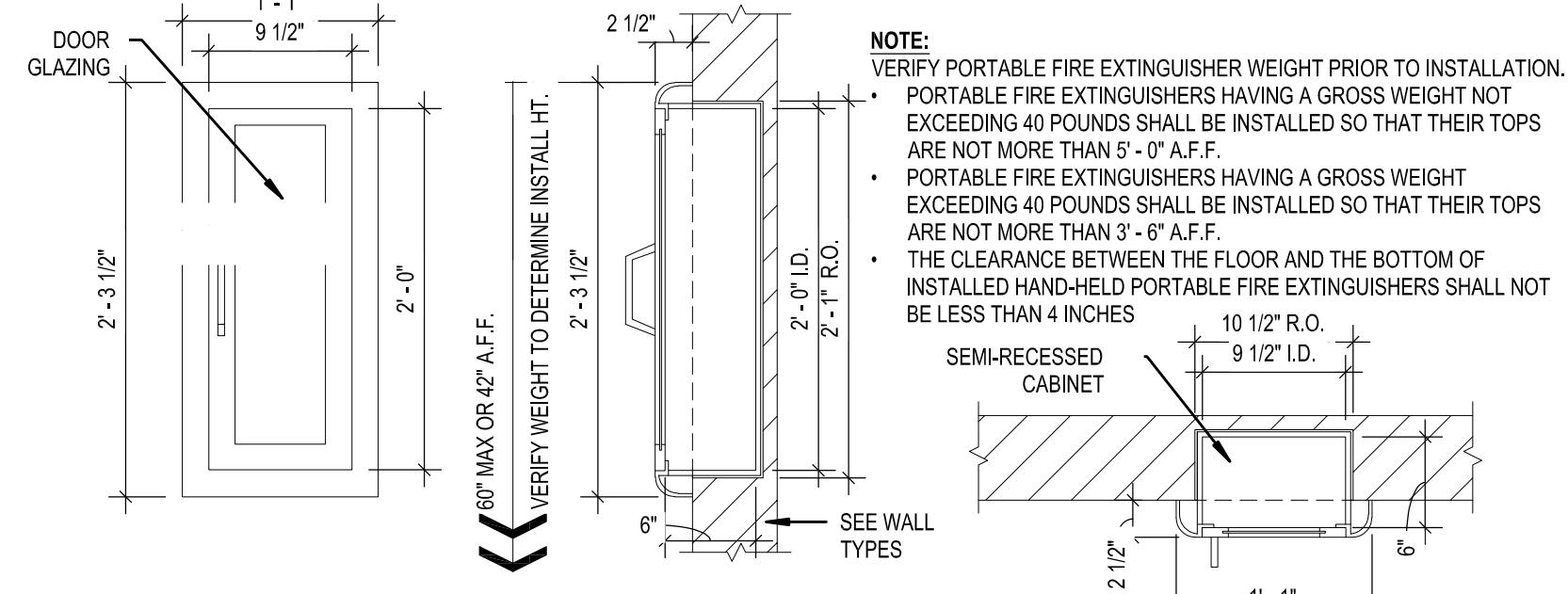
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SHEET:  
A102

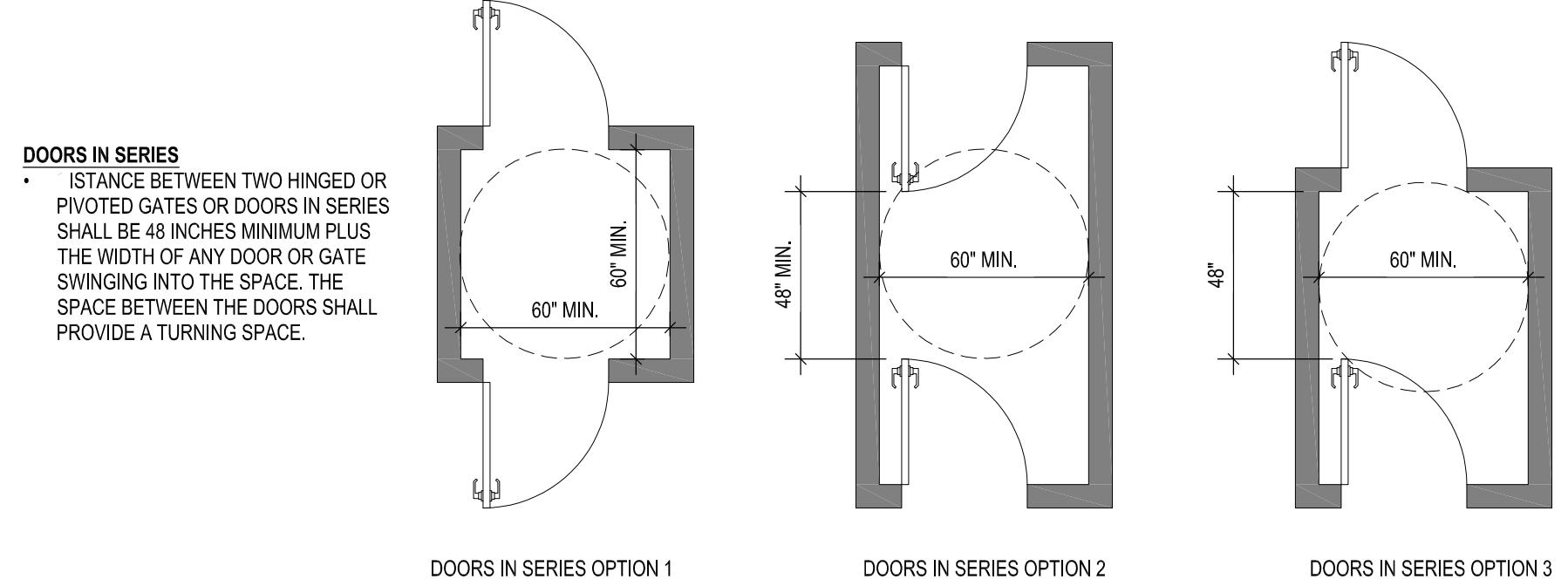
ALL INFORMATION  
ON THIS PAGE IN  
ACCORDANCE WITH  
ICC A117.1-2017



## 6 EXISTING BUILDING UNOBSTRUCTED REACH RANGES

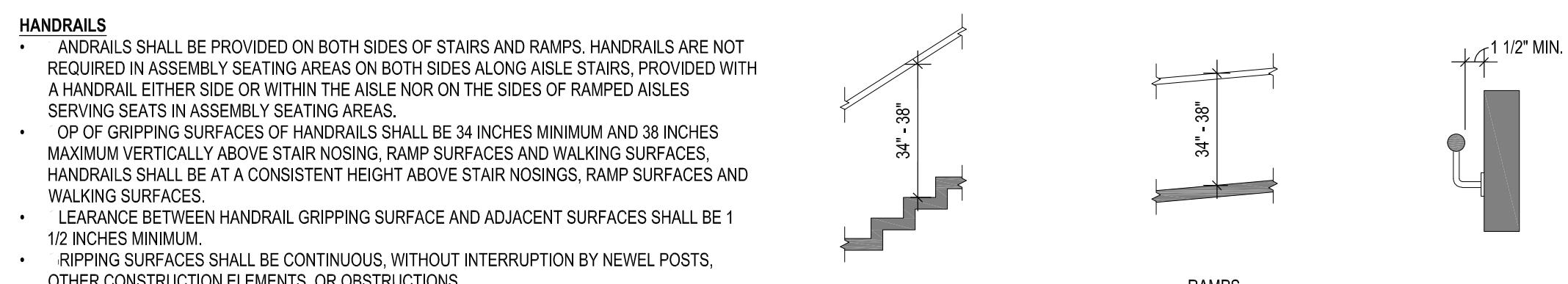


## 5 EXISTING BUILDING FIRE EXTINGUISHERS



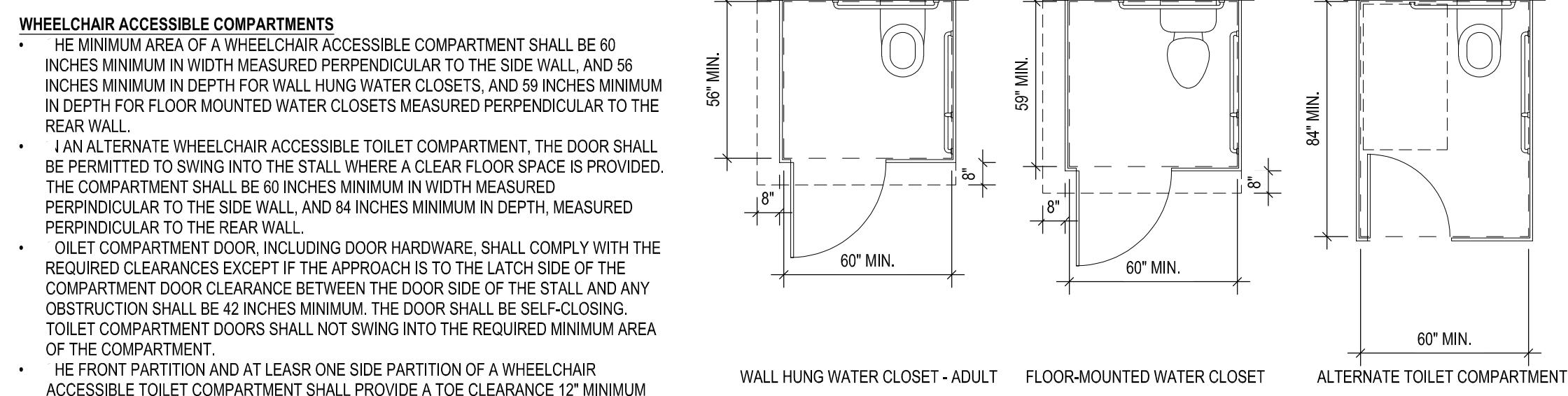
## 10 EXISTING BUILDING DOORS IN SERIES

1/4" = 1'-0"



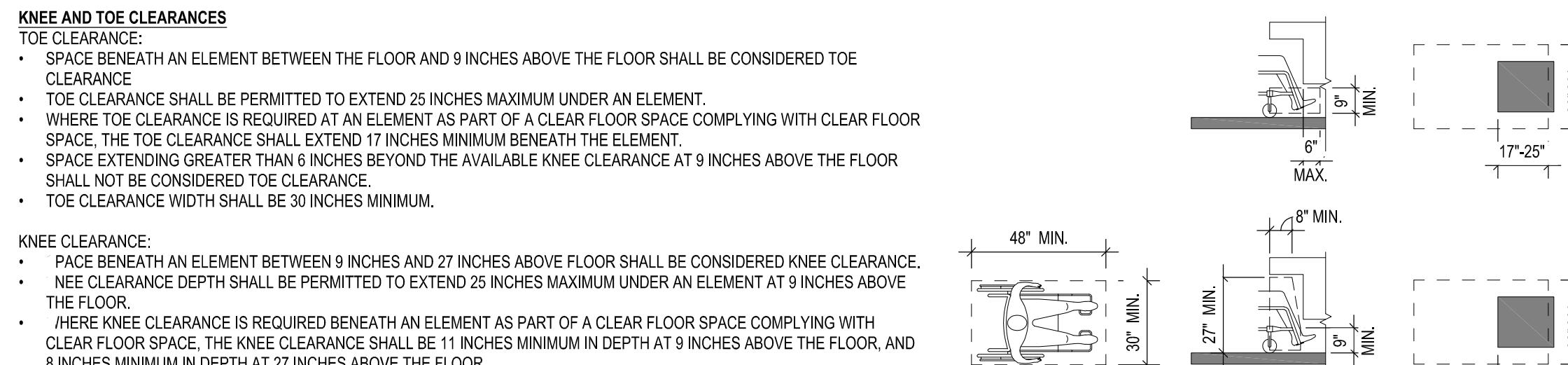
## 9 EXISTING BUILDING HANDRAILS

1/4" = 1'-0"



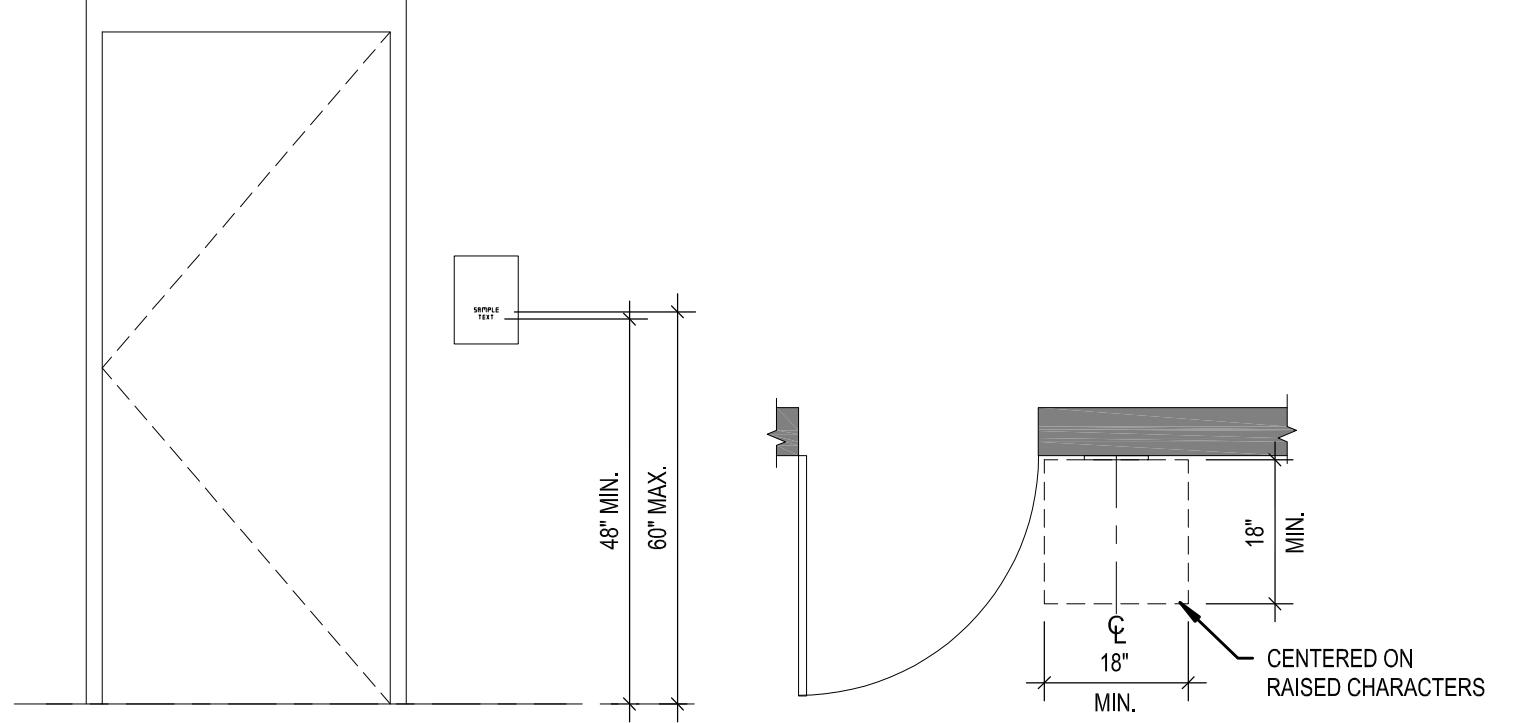
## 8 EXISTING BUILDING TOILET COMPARTMENTS

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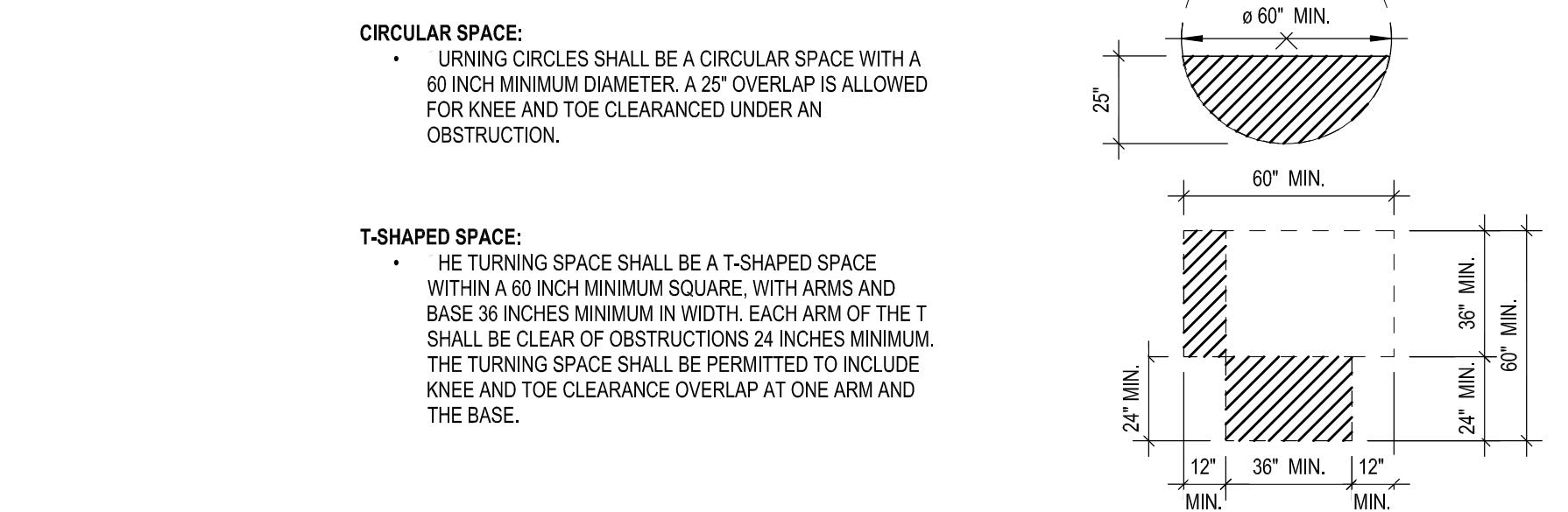


## 7 EXISTING BUILDING KNEE AND TOE CLEARANCE

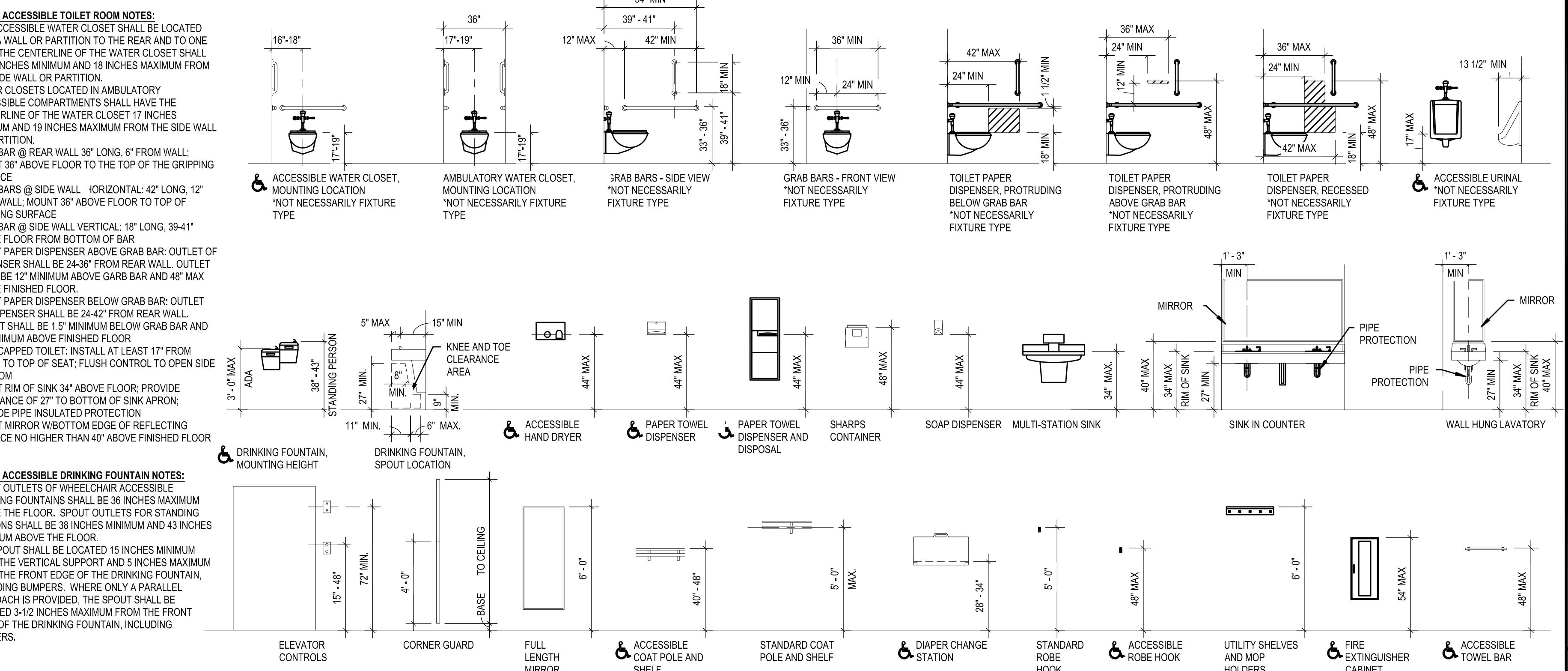
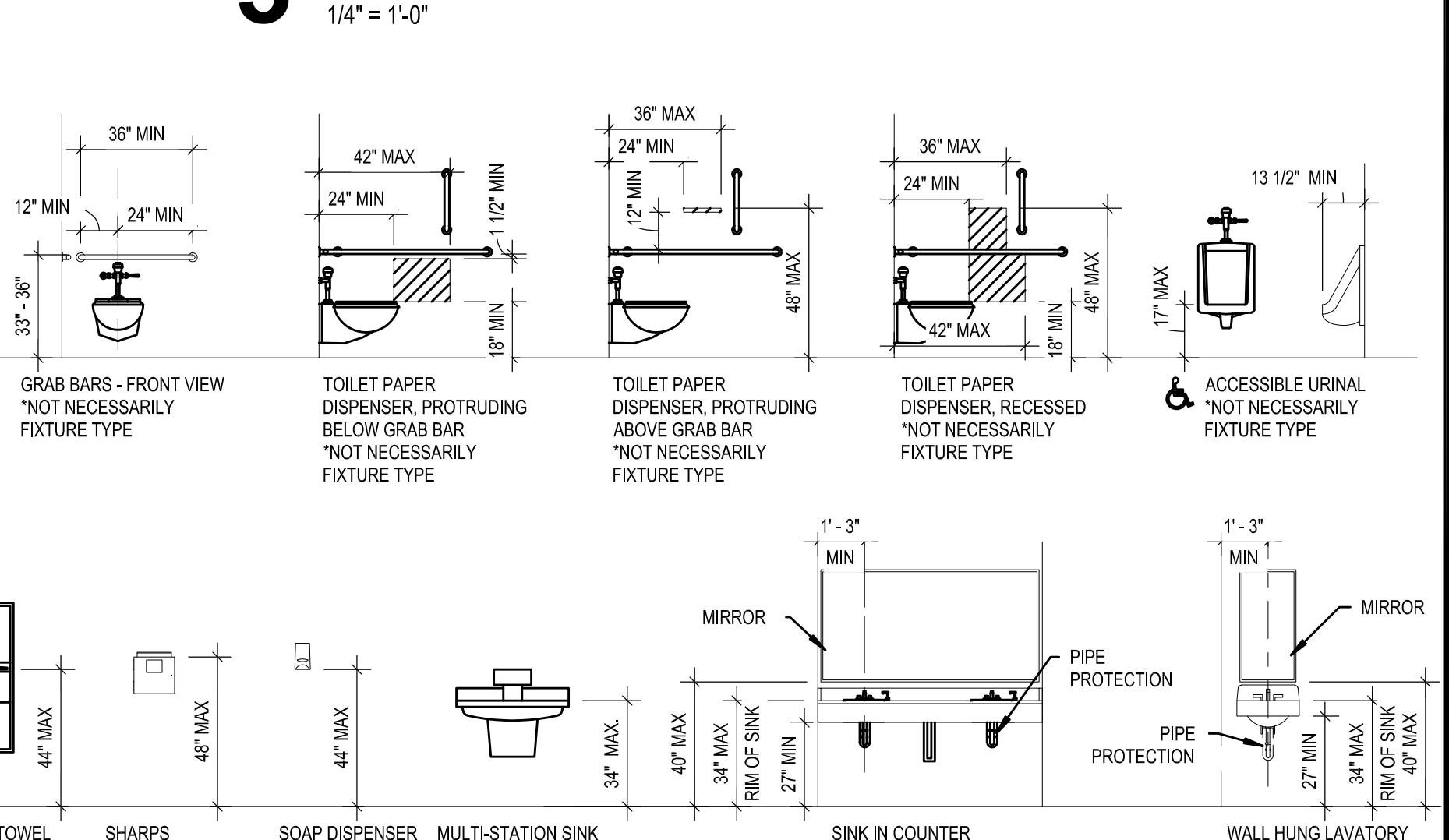
1/4" = 1'-0"



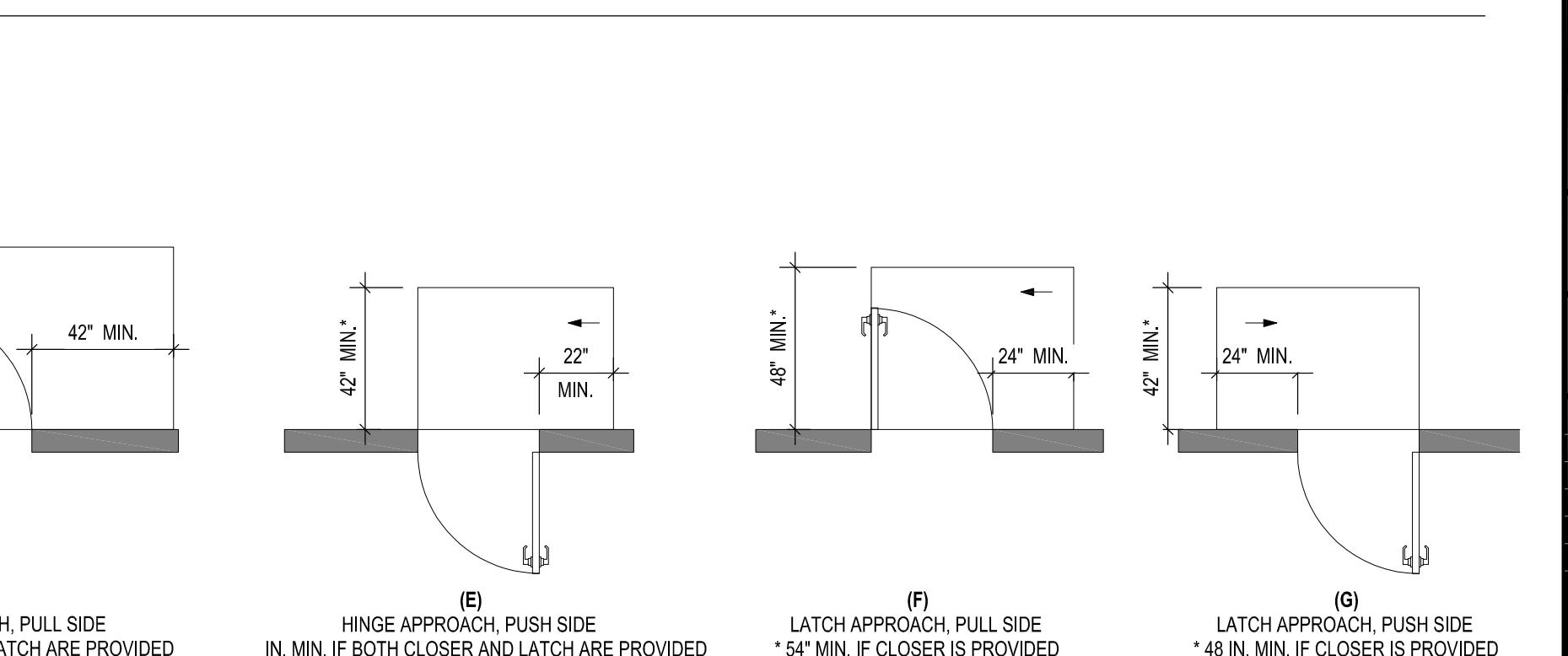
## 4 EXISTING BUILDING ROOM SIGNAGE



## 3 EXISTING BUILDING TURNING SPACES

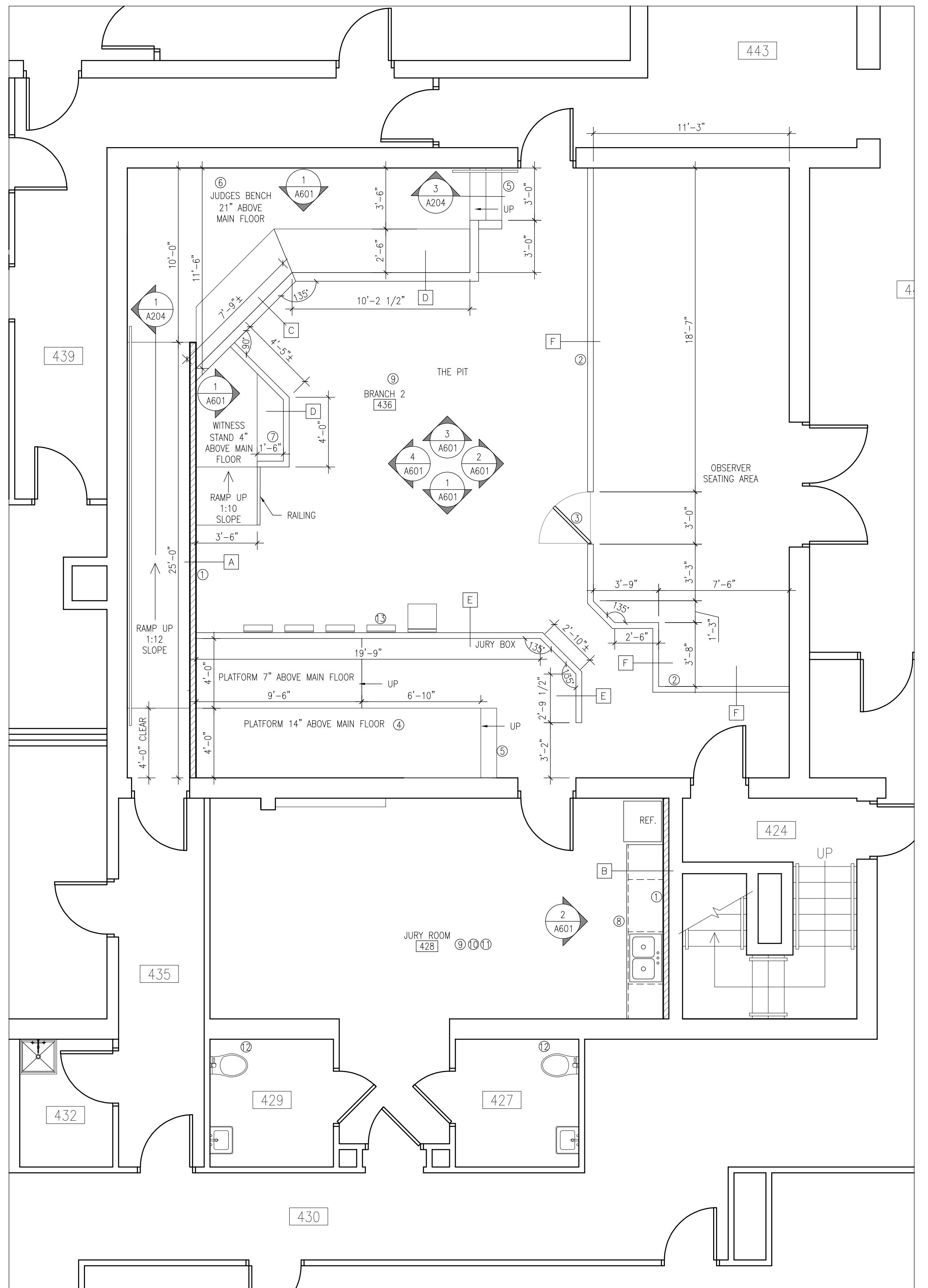


## 2 EXISTING BUILDING STANDARD MOUNTING HEIGHTS



## 1 EXISTING BUILDING MANUAL SWING DOOR MANEUVERING CLEARANCES

1/4" = 1'-0"

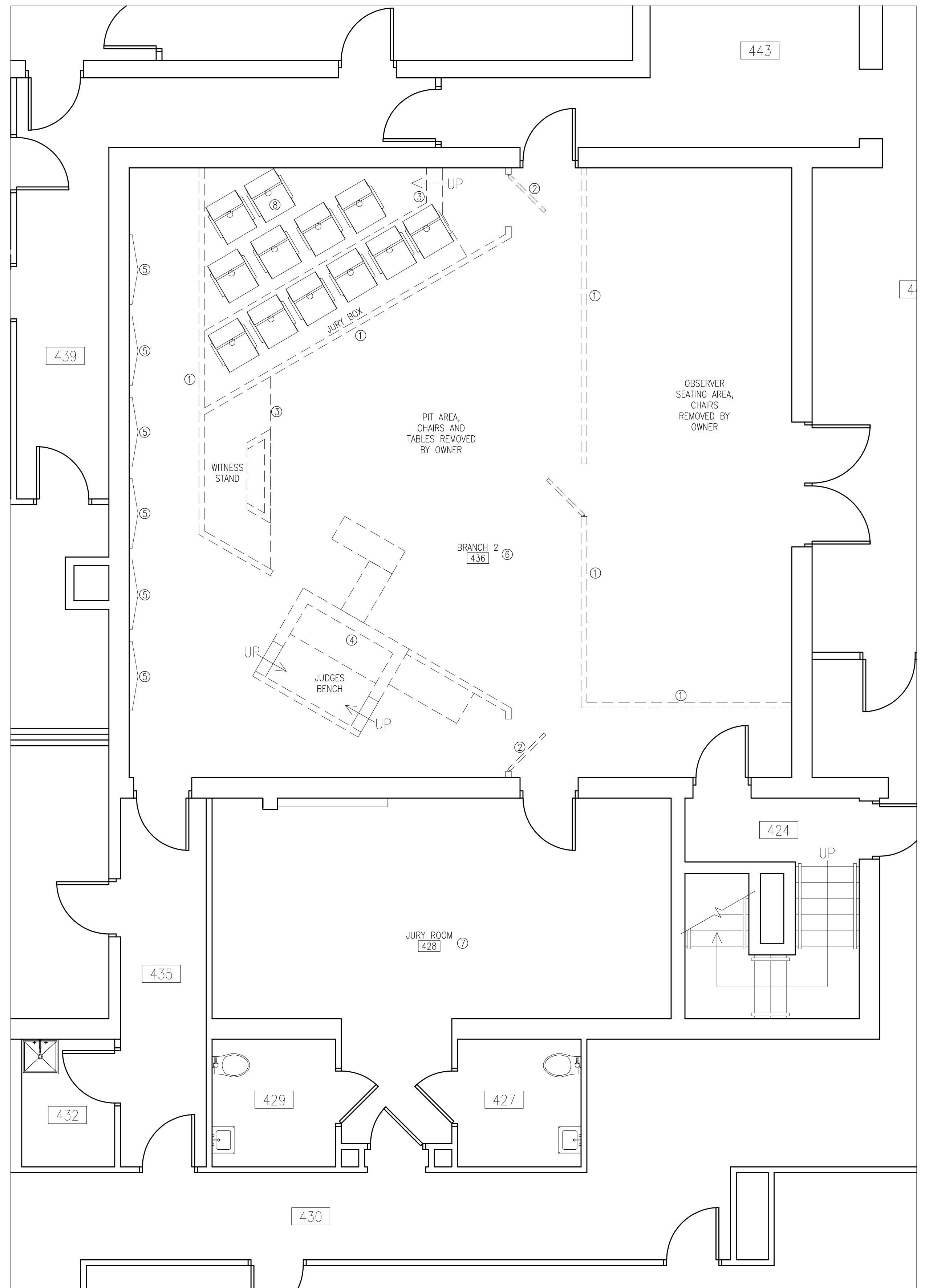


# 2 FLOOR PLAN - PROPOSED

1/4" ≡ 1'-0"

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## BRANCH 2



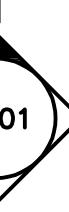
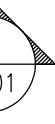
# 1 FLOOR PLAN - DEMOLITION

1/4" = 1'-0"

BRANCH 2

**N**

## FLOOR PLAN LEGEND

	WALL TYPE
OFFICE 100	ROOM NAME ROOM NUMBER
	EXTERIOR ELEVATION DETAIL NUMBER EXTERIOR ELEVATION SHEET NUMBER
	INTERIOR ELEVATION DETAIL NUMBER INTERIOR ELEVATION SHEET NUMBER
	SECTION DETAIL NUMBER SECTION SHEET NUMBER
	DOOR TAG
	WINDOW TAG

# CLARK COUNTY COURTHOUSE

## COURTROOM RENOVATION PROJECT FOR

The logo for APEX Engineering. It features the word "APEX" in large, bold, red letters with a black outline. Below "APEX" is the word "Engineering" in a smaller, red, italicized font. To the left of the text is a red triangle pointing upwards.

ARCHITECTS  
**L & P**  
ENGINEERS

Lien & Peterson  
Eau Claire, WI  
715-835-7  
lienandpetersonarc

卷之三

# COURTROOM RENOVATION PROJECT FOR CLARK COUNTY COURTHOUSE

# BRANCH 2 - PHASE 1

**TITLE:**

**ARCHITECTURAL  
DEMOLITION PLAN**

**DO NOT SCALE DRAWINGS  
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## DOCUMENT PHASE: **BIDDING**

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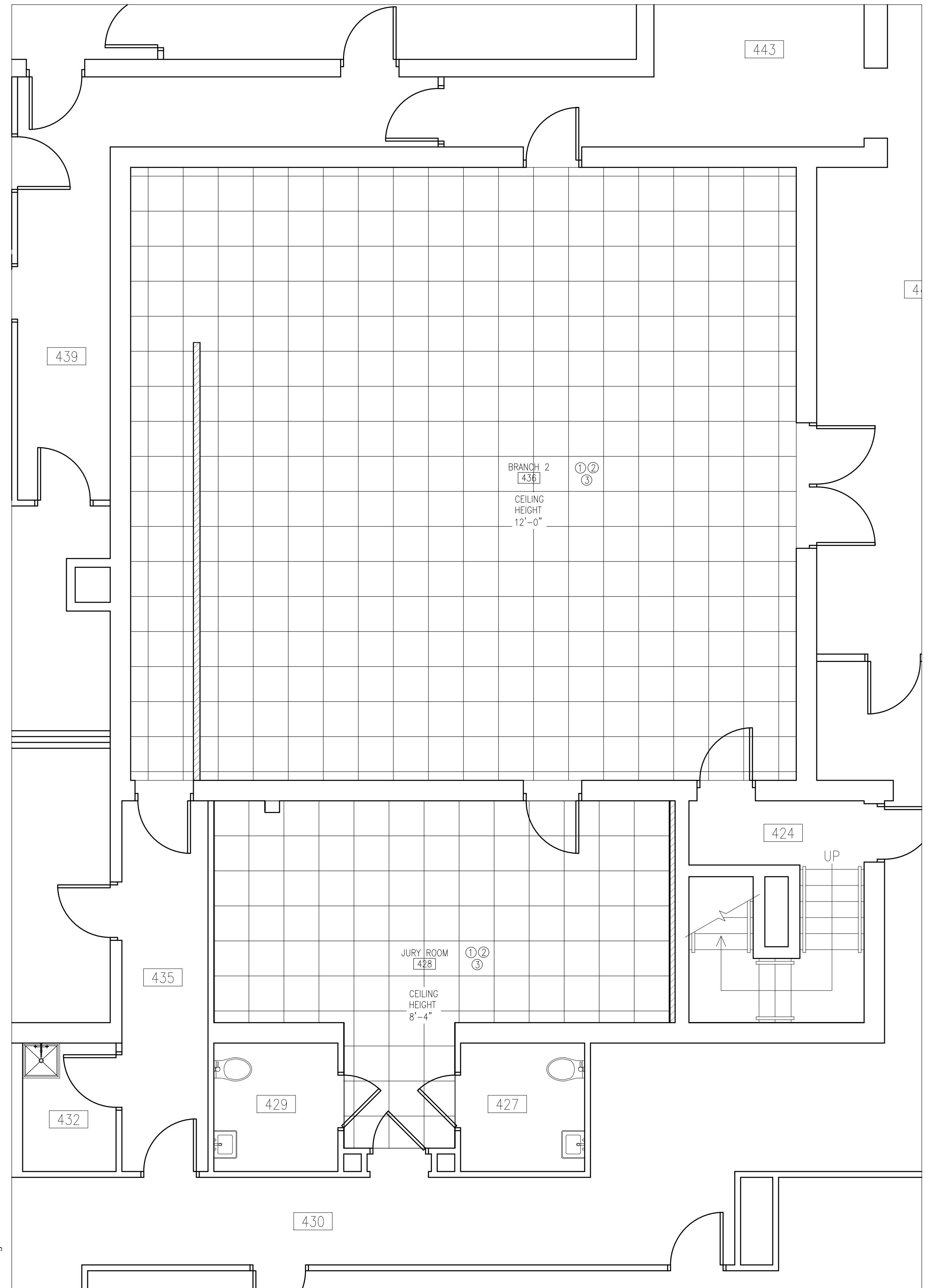
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DESIGNED BY:

DATE:

REV.: DATE: REMARKS

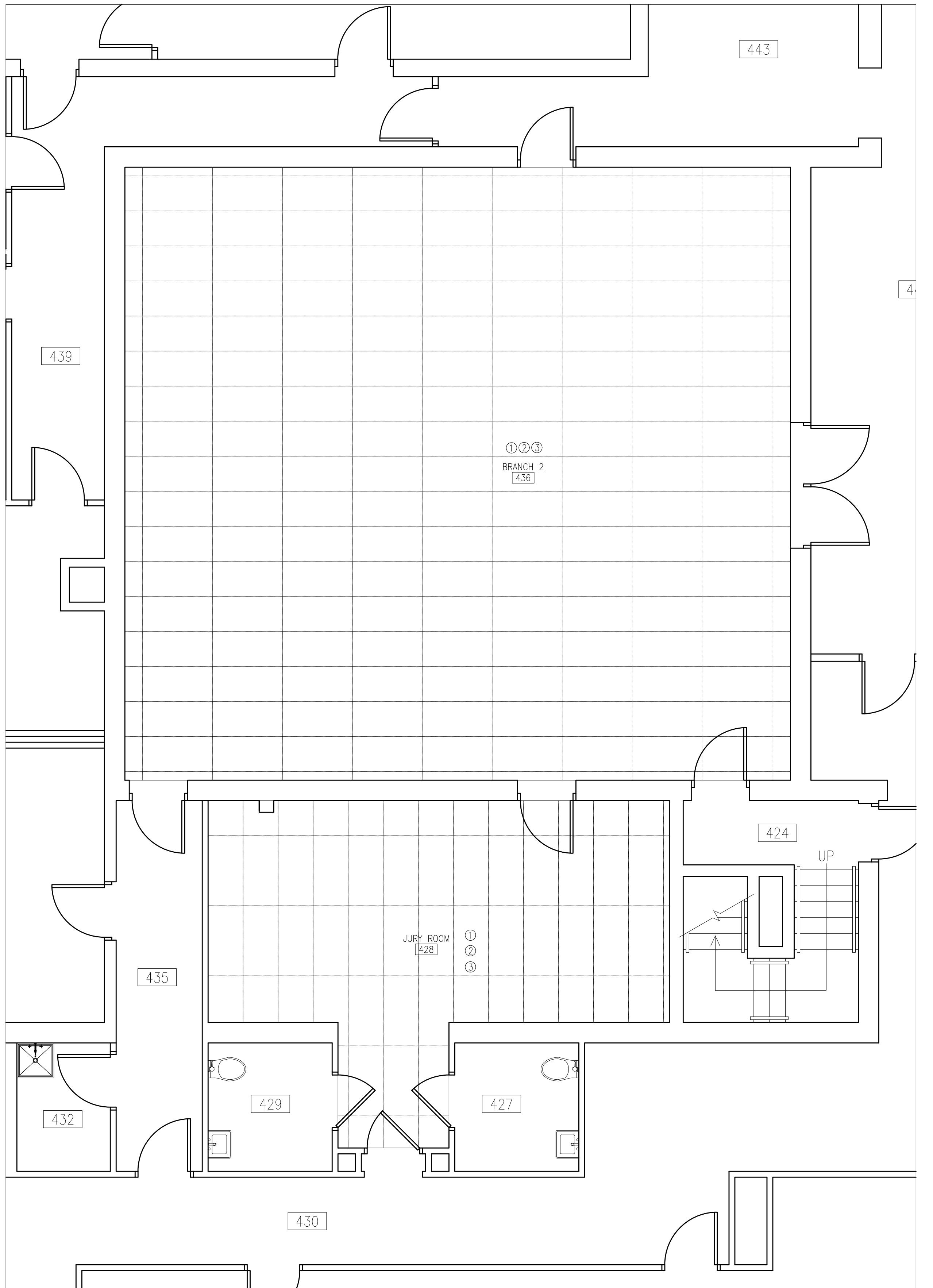
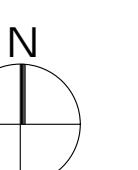

SHEET:  
**A301**



CEILING PLAN - PROPOSED

1/4" = 1'-0"

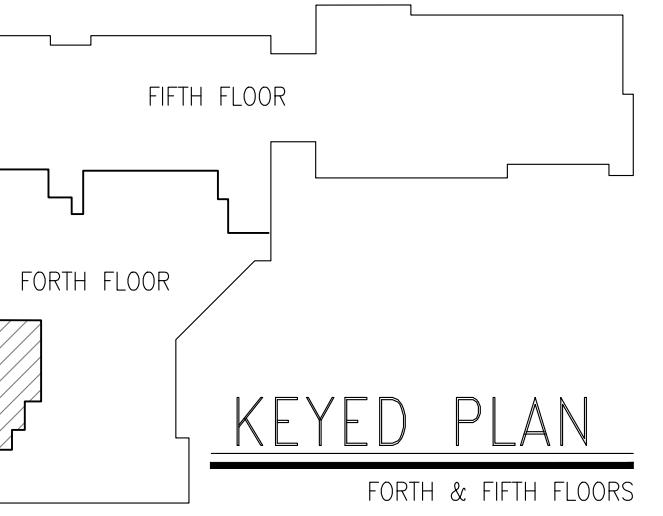
BRANCH 2



CEILING PLAN - DEMOLITION

1/4" = 1'-0"

BRANCH 2



KEYED PLAN  
FORTH & FIFTH FLOORS

④ KEYED CEILING DEMOLITION NOTES:

1. REMOVE CEILING TILES.
2. REMOVE CEILING GRID.
3. LIGHTS REMOVED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL SHEETS FOR COORDINATION.

NOTE: OWNER SHALL REMOVE AND SALVAGE TV AND OTHER MONITOR EQUIPMENT.

④ KEYED CEILING RENOVATION NOTES:

1. INSTALL NEW 2x2 CEILING TILES.
2. INSTALL NEW CEILING GRID.
3. LIGHTS BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL SHEETS FOR COORDINATION.

NOTE: OWNER TO INSTALL SALVAGED TV AND MONITOR EQUIPMENT

**CLARK COUNTY COURTHOUSE**

BRANCH 2 - PHASE 1

517 COURT STREET, NEILLSVILLE, WISCONSIN 54456

TITLE:  
ARCHITECTURAL  
DEMOLITION CEILING  
RENOVATION CEILING

DO NOT SCALE DRAWINGS  
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DOCUMENT PHASE:  
**BIDDING**  
DOCUMENTS

PROJECT NO:  
**25001**

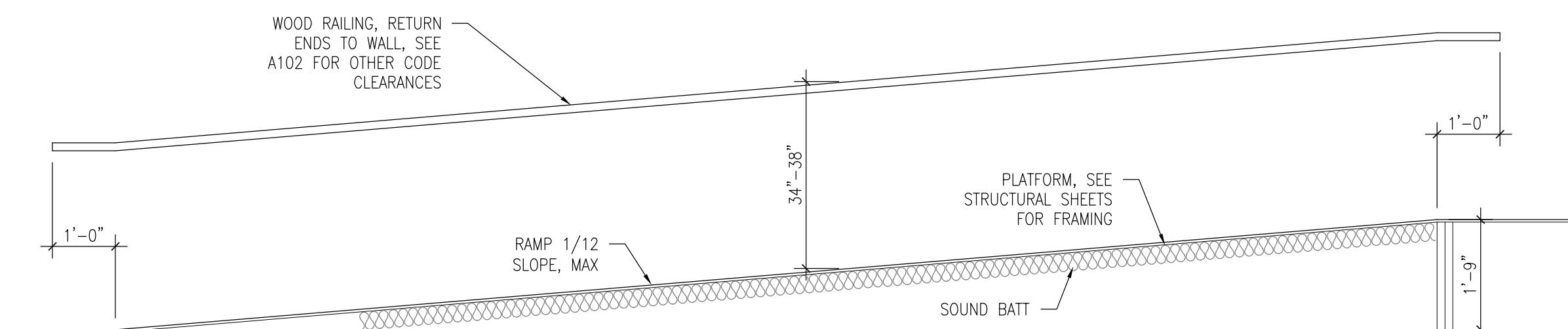
DRAWN BY:  
**AHW**

DESIGNED BY:  
--

DATE:  
**12/18/2025**

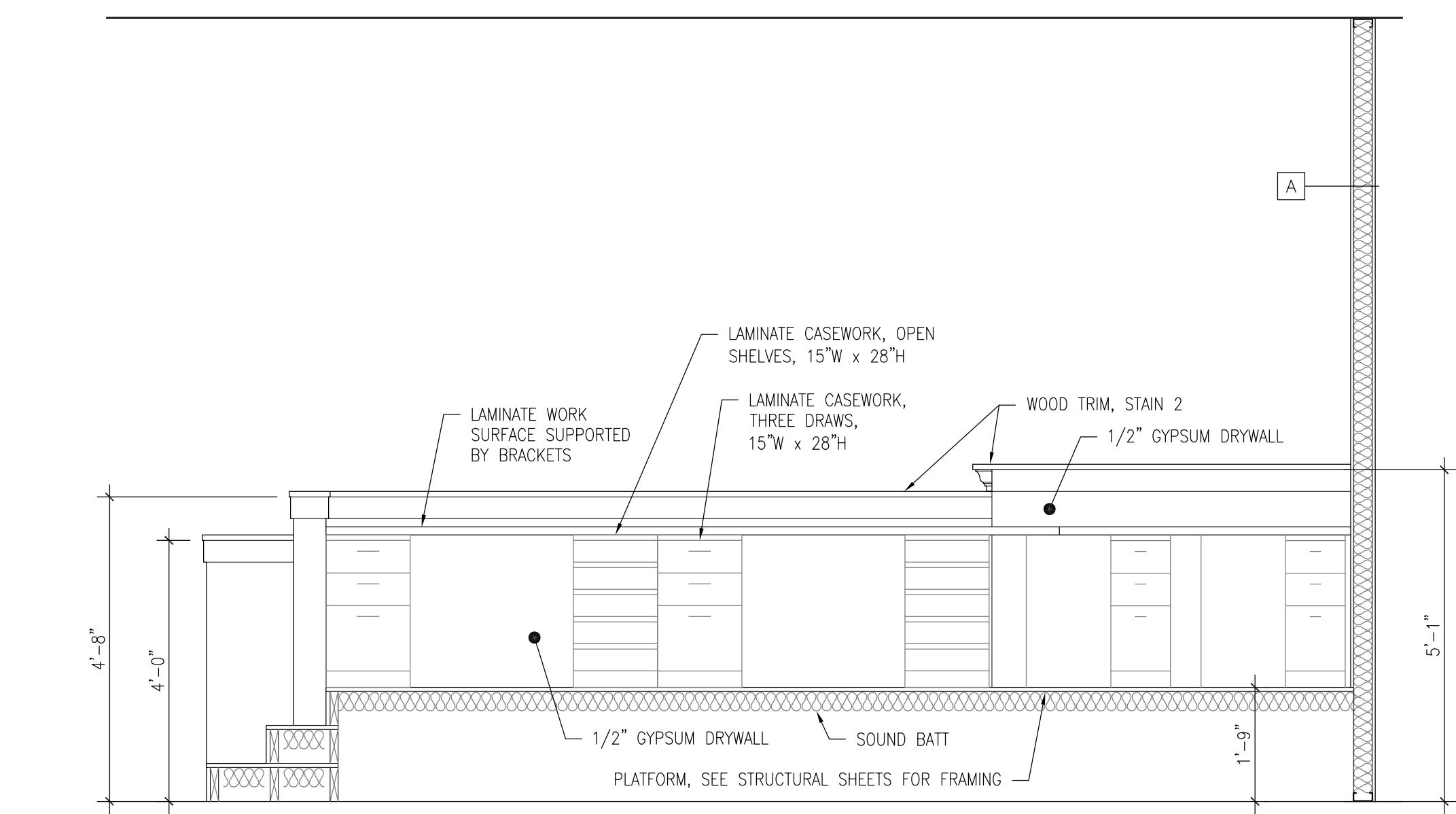
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SHEET:  
**A302**



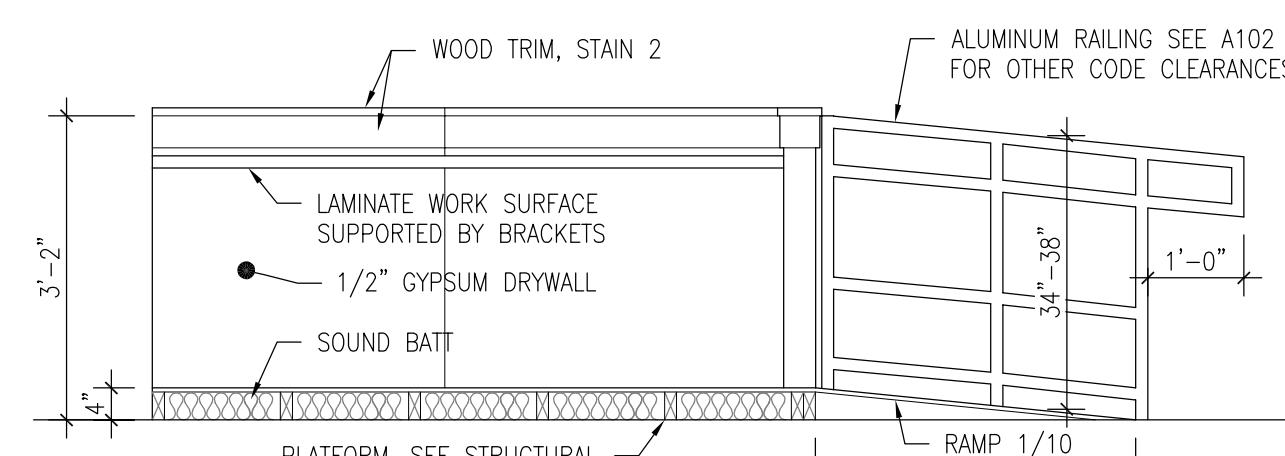
9 RAMP SECTION

1/2" = 1' - 0"



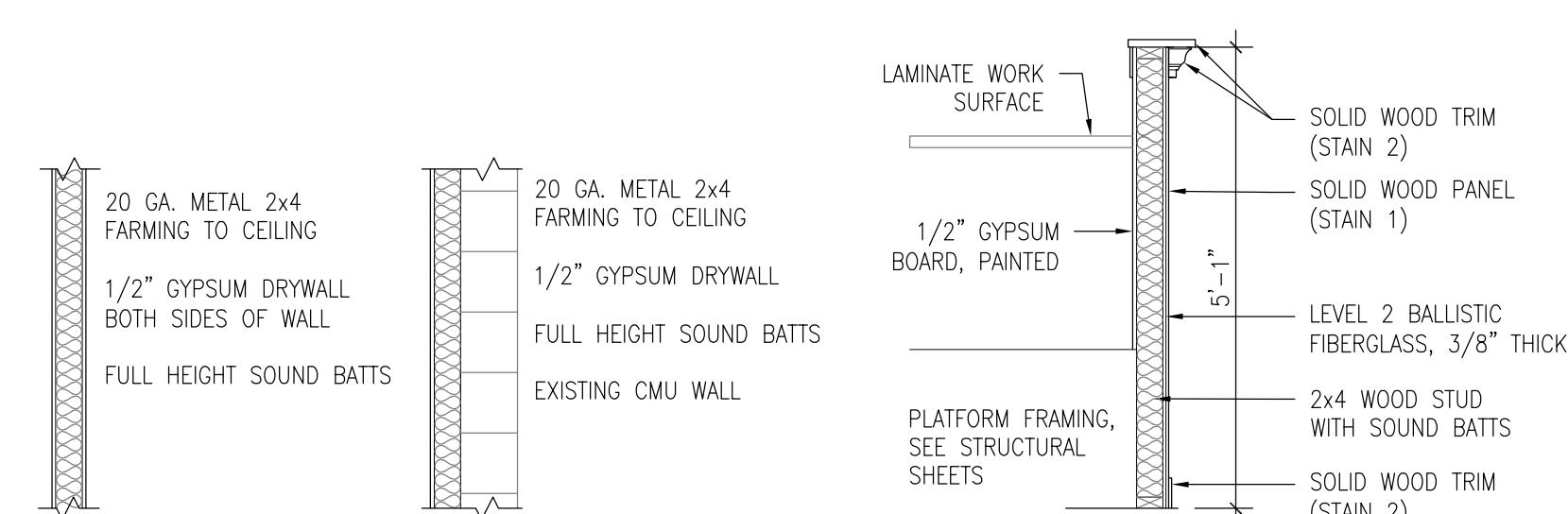
8 BENCH SOUTH VIEW

1/4" = 1' - 0"



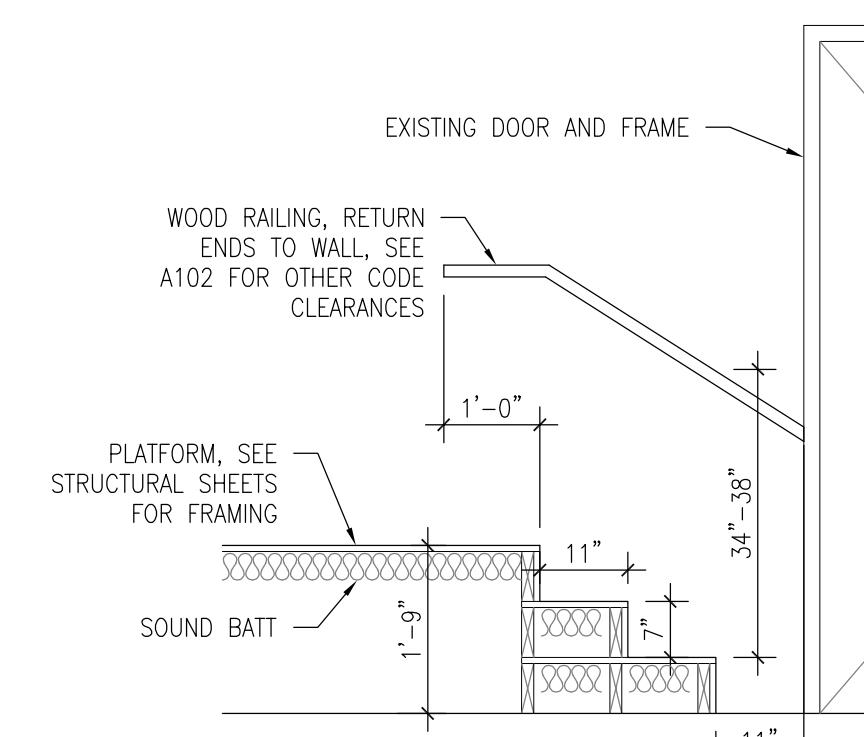
7 WITNESS STAND

1/2" = 1' - 0"



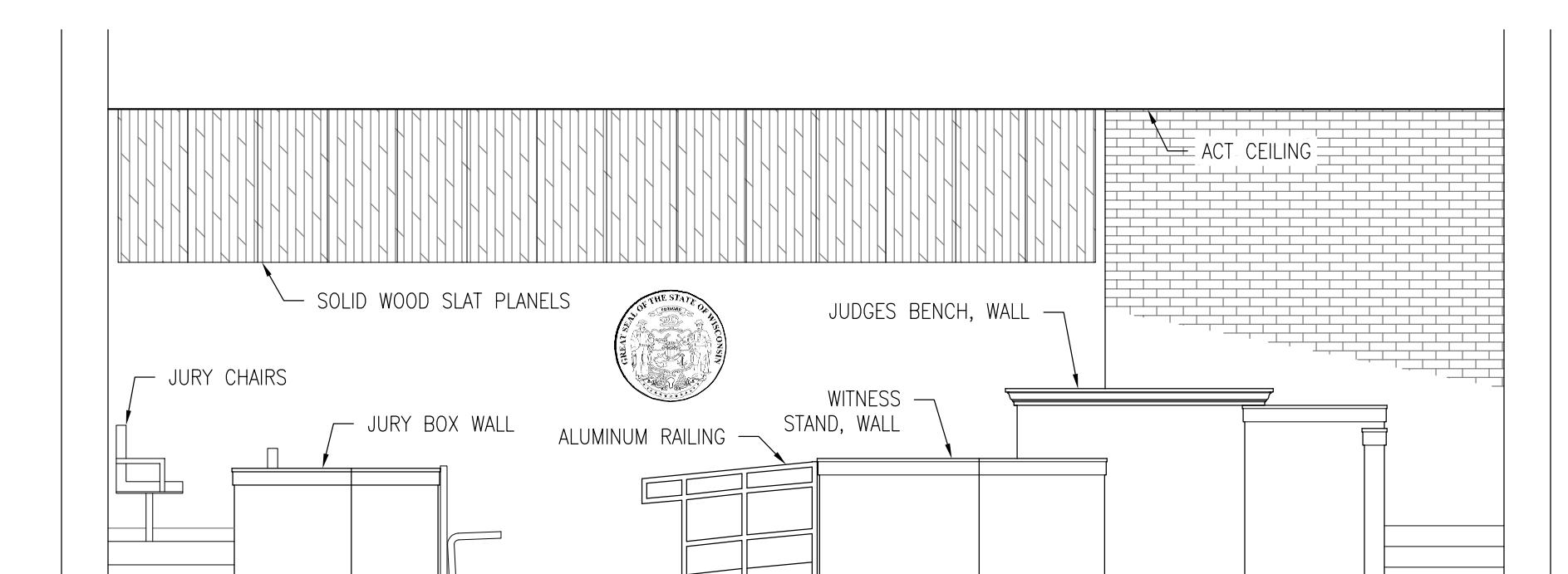
6 WALL TYPES

1/2" = 1' - 0"



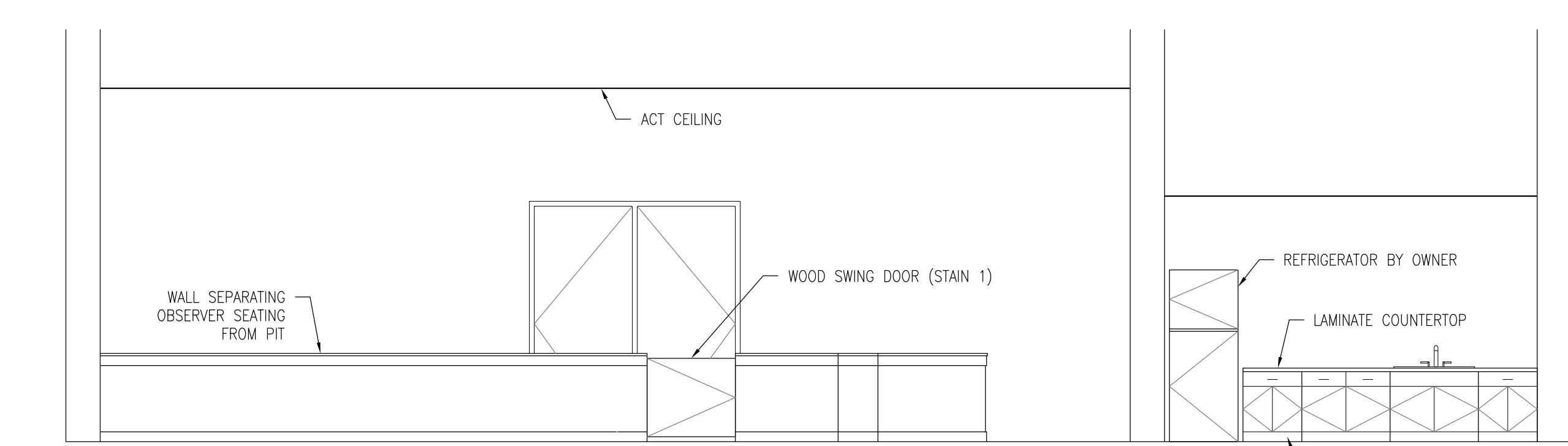
5 STAIR SECTION

1/2" = 1' - 0"



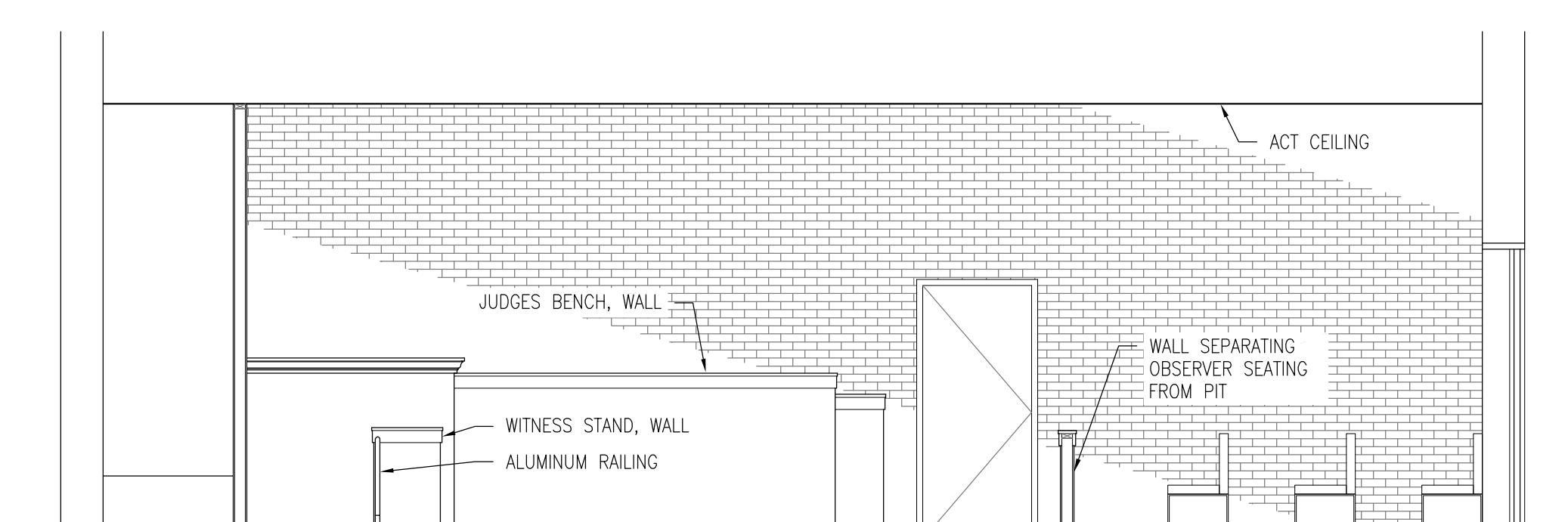
4 INTERIOR WEST VIEW

1/4" = 1' - 0"



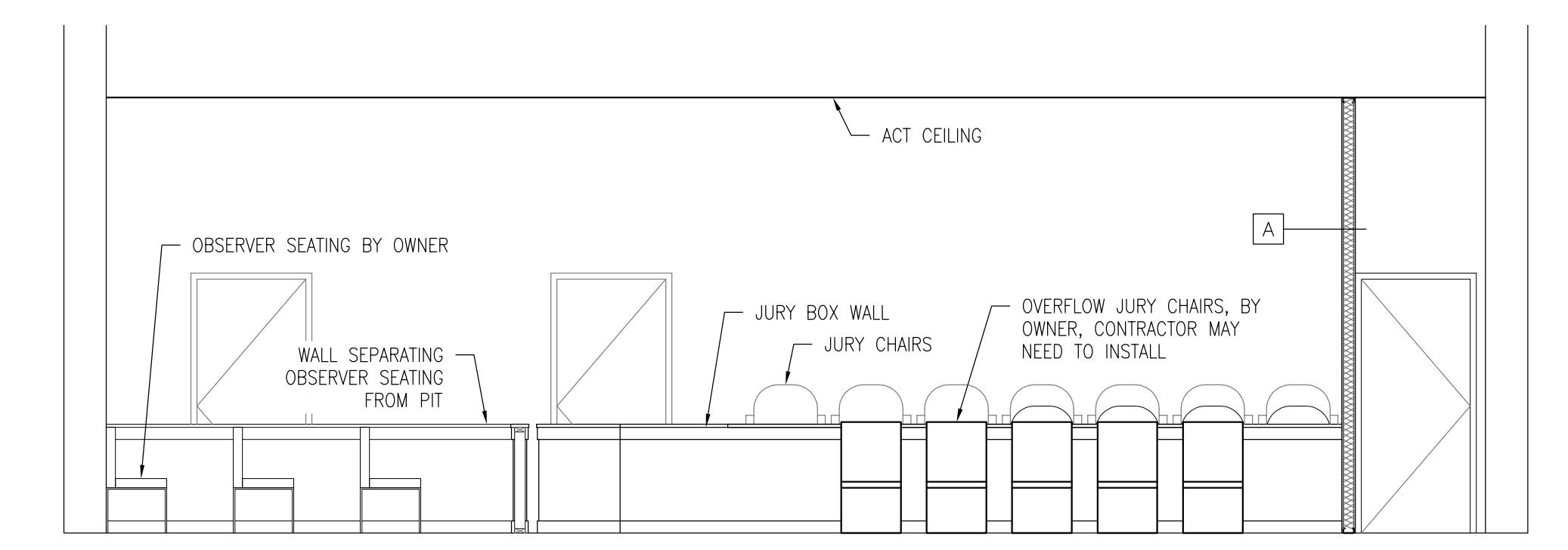
2 INTERIOR EAST VIEW

1/4" = 1' - 0"



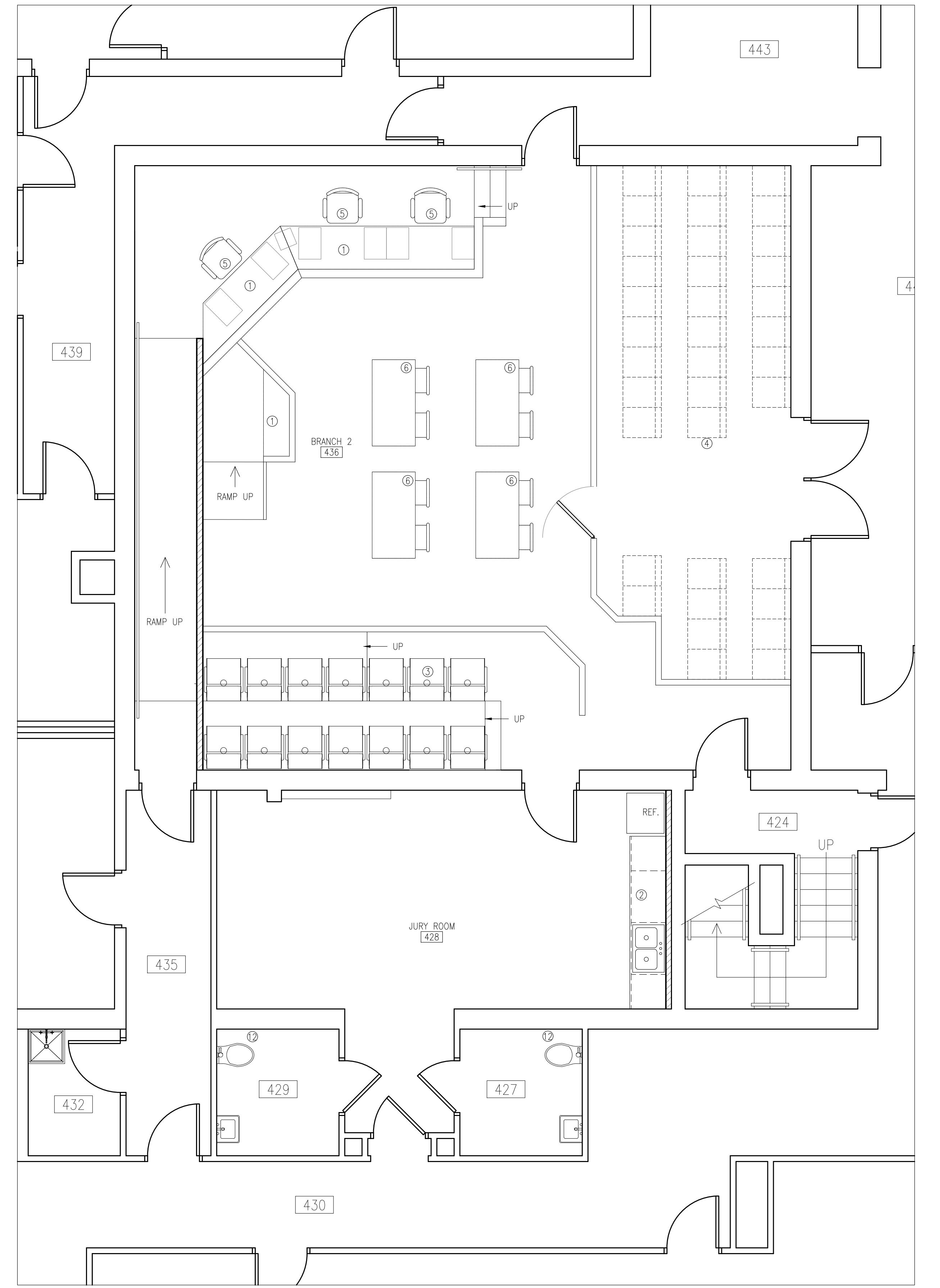
3 INTERIOR NORTH VIEW

1/4" = 1' - 0"

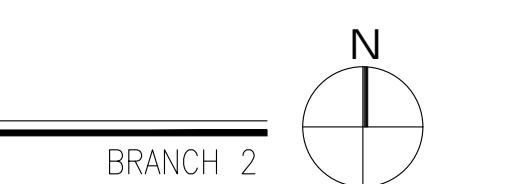


1 INTERIOR SOUTH VIEW

1/4" = 1' - 0"



1 FINISH FLOOR PLAN  
1/4" = 1'-0"



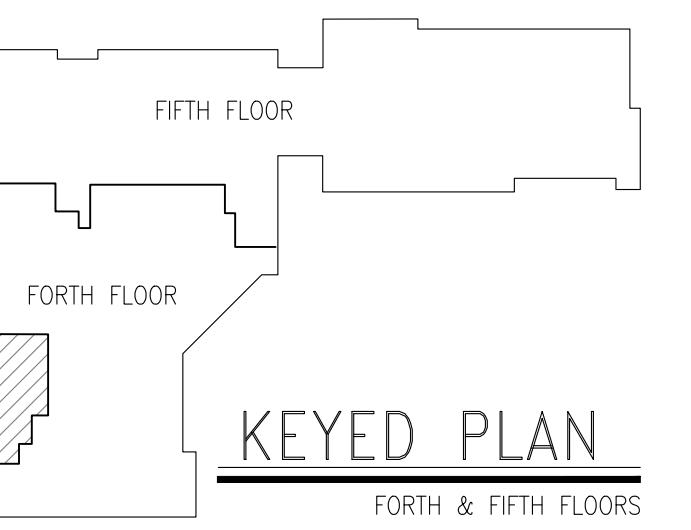
ROOM FINISH SCHEDULE						
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING FINISH	CEILING HEIGHT
436	COURTROOM BRANCH 2	CPT-1	WOOD & RUBBER	PT-1 (ALL DRYWALL)	ACT-1	12'-0"
428	JURY ROOM	CPT-1	RUBBER	PT-1	ACT-1	8'-4"
ABBREVIATIONS:						
ACCS.	ACCESSIBLE			GPDW	GYPSUM DRYWALL	
ACT-1	ACOUSTIC CEILING TILE AND SUSPENDED CEILING GRID			N/A	NOT APPLICABLE	
AVFF	ABOVE FINISHED FLOOR			PNT-1	PAINT	
CPT-1	CARPET					
E.T.R	EXISTING TO REMAIN					

- # KEYED FLOOR FINISH NOTES:
1. LAMINATE WORK SURFACE, WALL SUPPORTED WITH BRACKETS.
  2. LAMINATE COUNTER WITH LAMINATE CASEWORK BELOW.
  3. JURY SEATING, INSTALL SALVAGED JURY PEDESTAL SEATS.
  4. OBSERVER SEATING, NOT FIXED, PROVIDED BY OWNER.
  5. JUDGE, CLERK, REPORTER CHAIRS, PROVIDED BY OWNER.
  6. PIT TABLES AND CHAIRS, PROVIDED BY OWNER.

**CLARK COUNTY COURTHOUSE  
BRANCH 2 - PHASE 1**

517 COURT STREET, NEILLSVILLE, WISCONSIN 54456

TITLE:  
ARCHITECTURAL  
FINISHES  
  
DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY  
  
DOCUMENT PHASE:  
BIDDING  
DOCUMENTS  
  
PROJECT NO.:  
25001  
  
DRAWN BY:  
AHW  
  
DESIGNED BY:  
--  
  
DATE:  
12/18/2025  
  
REV.: DATE: REMARK:  
  
SHEET:  
**A701**



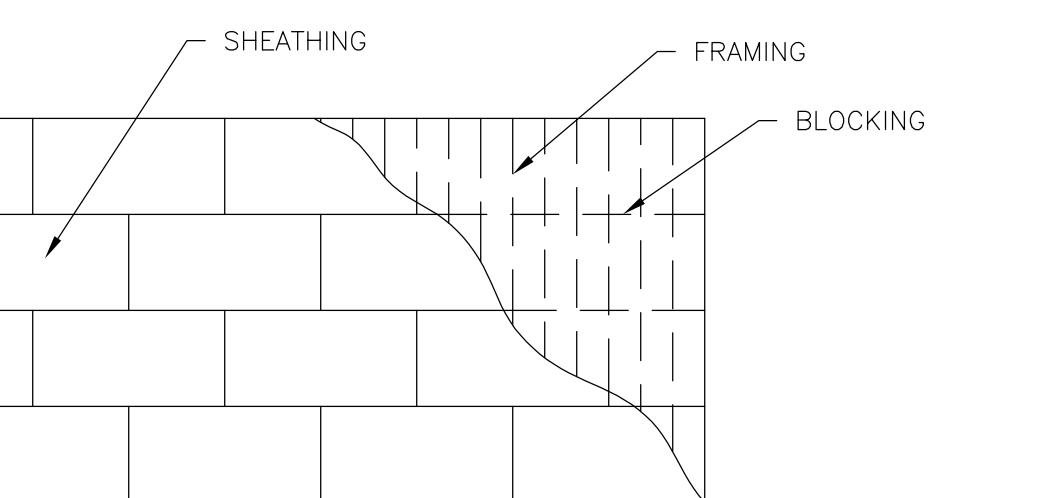
KEYED PLAN  
FORTH & FIFTH FLOORS

**WOOD FRAME FASTENING SCHEDULE**

CONNECTION	FASTENING	LOCATION
JOIST TO SILL OR GIRDER	3-8d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
BRIDGING TO JOIST	2-8d COMMON 2-3"x0.131" NAIL 2-3" 14 GAGE STAPLE	TOE NAIL EACH END
1x6 SUBFLOOR OR LESS TO JOIST	2-8d COMMON	FACE NAIL
WIDER THAN 1x6 SUBFLOOR TO JOIST	2-8d COMMON	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDERS	2-16d COMMON	BLIND AND FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" C-C 3"x0.131" NAIL @ 8" C-C 3" 14 GAGE STAPLE @ 12" C-C	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-16d @ 16" C-C 3"x0.131" NAIL @ 16" C-C 3" 14 GAGE STAPLE @ 16" C-C	BRACED WALL PANELS
TOP PLATE TO STUD	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	END NAIL
STUD TO SOLE PLATE	4-8d COMMON 4-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
DOUBLE STUDS	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	END NAIL
DOUBLE TOP PLATES (STAGGER JOINTS 4"-0")	16d @ 24" C-C 3"x0.131" NAIL @ 8" C-C 3" 14 GAGE STAPLE @ 8" C-C	TYPICAL FACE NAIL
DOUBLE TOP PLATES (STAGGER JOINTS 4"-0")	8-16d COMMON 12-3"x0.131" NAIL 12-3" 14 GAGE STAPLE	LAP SPLICE
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
RIM JOIST TO TOP PLATE	8d @ 6" C-C 3"x0.131" NAIL @ 6" C-C 3" 14 GAGE STAPLE @ 6" C-C	TOE NAIL
TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL
CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" C-C ALONG EDGE
CEILING JOISTS TO PLATE	3-8d COMMON 5-3"x0.131" NAIL 5-3" 14 GAGE STAPLE	TOE NAIL
CONTINUOUS HEADER TO STUD	4-8d COMMON	TOE NAIL
CEILING JOISTS, LAPS OVER PARTITIONS	3-16d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	3-16d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
RAFTER TO PLATE	3-8d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON 2-3"x0.131" NAIL 2-3" 14 GAGE STAPLE	FACE NAIL
1x8 SHEATHING TO EACH BEARING WALL	2-8d COMMON	FACE NAIL
WIDER THAN 1x8 SHEATHING TO EACH BEARING WALL	3-8d COMMON	FACE NAIL
BUILT-UP CORNER STUDS	16d COMMON 3"x0.131" NAIL 3" 14 GAGE STAPLE	24" C-C 16" C-C 16" C-C
BUILT-UP GIRDERS AND BEAMS	20d COMMON @ 32" C-C 3"x0.131" NAIL AT 24" C-C 3" 14 GAGE STAPLE @ 24" C-C 2-20d COMMON 3"x0.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT END AND AT EACH SPLICE
2" PLANKS	16d COMMON	AT EACH BEARING
COLLAR TIE TO RAFTER	3-10d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
JACK RAFTER TO HIP	3-10d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	TOE NAIL
ROOF RAFTER TO 2x RIDGE BEAM	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE 2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	TOE NAIL FACE NAIL

**WOOD FRAME FASTENING SCHEDULE**

CONNECTION	FASTENING	LOCATION
JOIST TO BAND JOIST	3-16d COMMON 5-3"x0.131" NAIL 5-3" 14 GAGE STAPLE	FACE NAIL
LEDGER STRIP	3-16d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
WOOD STRUCTURAL PANELS AND PARTICLEBOARD: SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING	1/2" AND LESS 19/32" TO 3/4" 7/8" TO 1" 1 1/8" TO 1 1/4" 3/4" OR LESS 7/8" TO 1" 1 1/8" TO 1 1/4"	6d 2.375"x0.113" NAIL 1.75" 16 GAGE STAPLE 8d OR 6d 2.375"x0.113" NAIL 2" 16 GAGE STAPLE 8d 10d OR 8d 6d 8d 10d OR 8d
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" OR LESS 5/8"	6d 8d
PANEL SIDING TO FRAMING	1/2"	#11 GAGE ROOFING NAIL 6d COMMON NAIL # 16 GAGE STAPLE
FIBERBOARD SHEATHING	25/32"	#11 GAGE ROOFING NAIL 8d COMMON NAIL # 16 GAGE STAPLE
INTERIOR PANELING	1/4" 3/8"	4d 6d



**SHEATHING ORIENTATION**

**DESIGN AND LOAD DATA**

**DESIGN SPECIFICATIONS**

WISCONSIN ENROLLED COMMERCIAL BUILDING CODE  
CURRENT EDITION WITH SUBSEQUENT REVISIONS

**DESIGN LOAD INFORMATION**

**DEAD LOADS**

FLOOR DEAD - 15 PSF

**LIVE LOADS**

FLOOR LIVE LOAD - 100 PSF

**SNOW LOAD (CLARK COUNTY)**

GROUND SNOW LOAD - 50 PSF  
THERMAL FACTOR - 1.0  
EXPOSURE FACTOR - 1.0

IMPORTANCE FACTOR - 1.2  
ROOT SNOW LOAD - 42 PSF

**WIND LOAD**

NOT AFFECTING MWFRS - N/A

**SEISMIC LOADS**

SEISMIC DESIGN CATEGORY A

**SOIL DESIGN INFORMATION**

**SOIL DATA (ASSUMED)**

SOIL TYPE - SW  
PRESUMED BEARING CAPACITY - 2000 PSF

**MATERIAL REQUIREMENTS**

**MATERIALS**

MAIN FRAMING MEMBERS - #2 SP-F  
SECONDARY FRAMING MEMBERS - #2 SP-F  
MICROLAM BEAMS - 2.0E

FLOOR SHEATHING  
3/4" 48/24 SPAN RATED SHEATHING  
1 1/8" T&G STURDI FLOOR

**FLOOR SHEATHING FASTENERS**

UNBLOCKED W/ 8d @ 6" C-C

FLOOR SLABS - HARD TROWELED FINISH  
PAVING SLABS - FLOAT/BROOM FINISH

8. ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 6%.

9. CONTRACTOR TO ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS. TESTING AGENCY TO CONFIRM THAT NOTED MATERIAL REQUIREMENTS ARE MET.

**CONCRETE**

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

1. ALL CONCRETE TO BE NORMAL WEIGHT, WITH AGGREGATES CONFORMING TO ASTM C33.  
2. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY COMPRESSIVE STRENGTH (F<sub>c</sub>):

FLOOR SLABS - 4000 PSI  
FOUNDATIONS - 4000 PSI

3. CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE. OTHER ADMIXTURES SHALL CONFORM TO ASTM C494.

4. REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO A615, A616, OR A617, GRADE 60, WITH MINIMUM YIELD STRESS (F<sub>y</sub>) OF 60,000 PSI. THE MINIMUM LAP FOR SPLICES SHALL BE 3"-6".

5. CONCRETE COVER ON ALL REINFORCING SHALL BE 3" UNLESS OTHERWISE NOTED.

6. MAXIMUM SLUMP SHALL BE 4"±1" AS DETERMINED IN ACCORDANCE WITH ASTM C143.

7. CONCRETE FINISH:

FLOOR SLABS - HARD TROWELED FINISH  
PAVING SLABS - FLOAT/BROOM FINISH

8. ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 6%.

9. CONTRACTOR TO ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS. TESTING AGENCY TO CONFIRM THAT NOTED MATERIAL REQUIREMENTS ARE MET.

TITLE:  
STRUCTURAL DESIGN  
NOTES

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

DOCUMENT PHASE:  
BIDDING  
DOCUMENTS

PROJECT NO:  
25001

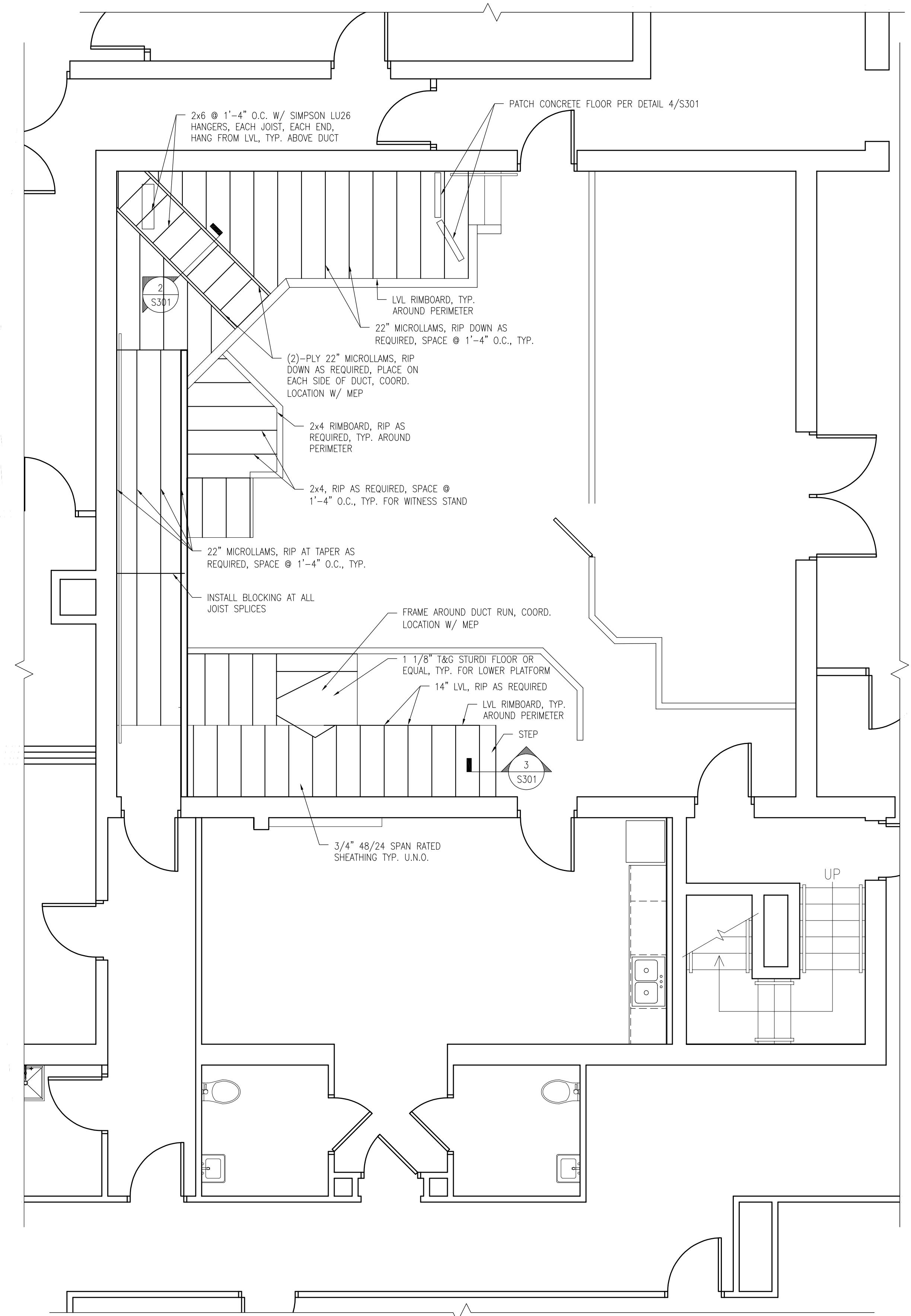
DRAWN BY:  
BTD

DESIGNED BY:  
BTD

DATE:  
12/18/2025

REV.: DATE: REMARK:

SHEET:  
S101



**1** BRANCH 2 - FLOOR FRAMING PLAN

## MECHANICAL SHEET INDEX

SHEET #	SHEET NAME
M100	MECHANICAL GENERAL INFO. SHEET
M101	MECHANICAL FIFTH & SIXTH FLOOR PLAN - DEMOLITION
M201	MECHANICAL FIFTH & SIXTH FLOOR PLAN - REMODEL
M301	MECHANICAL SCHEDULES AND DETAILS

## GENERAL MECHANICAL NOTES:

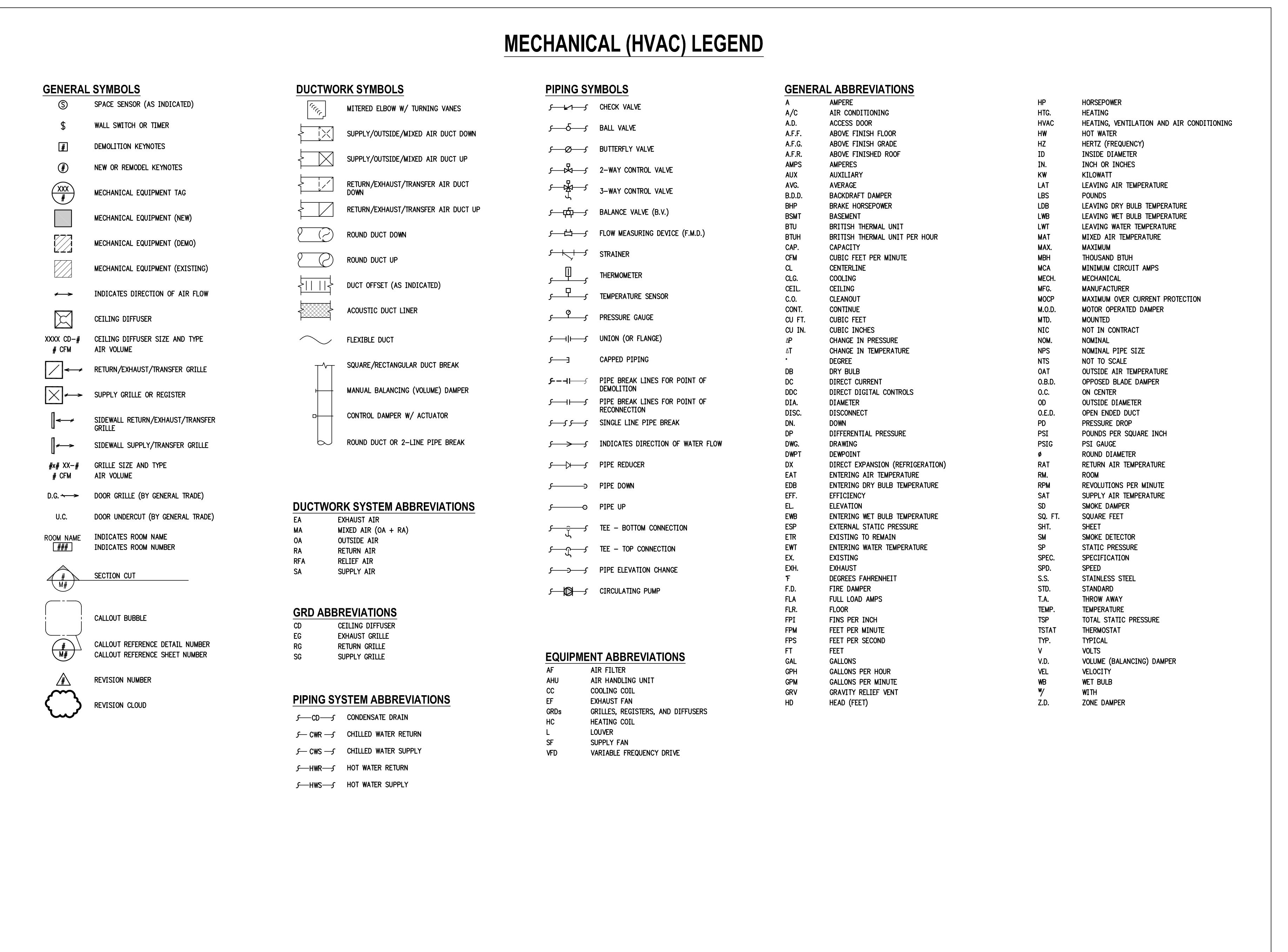
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL CODES, AS WELL AS THE NATIONALLY RECOGNIZED TESTING AND APPROVAL AGENCIES.
- AIR BALANCING SHALL BE DONE IN ACCORDANCE WITH THE SMACNA MANUAL FOR BALANCING AND ADJUSTMENT OF AIR HANDLING SYSTEMS. PROVIDE A FINAL REPORT TO ENGINEER FOR REVIEW.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- PROVIDE THE OWNER WITH TRAINING AND WITH OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT PRIOR TO COMPLETION OF WORK.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, EQUIPMENT SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY VERIFY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- THE INSTALLING CONTRACTOR SHALL VERIFY REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES WITH ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OF EQUIPMENT ORDERS.
- ALL CONTROLS SHALL BE PROPERLY TESTED, ADJUSTED AND CALIBRATED BEFORE WORK IS COMPLETED. MOUNT THERMOSTATS AT 48" A.F.F. PROVIDE INSULATION BASE WHERE MOUNTED ON AN EXTERIOR WALL.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE/COIL PULL OR EQUIPMENT SERVICE CLEARANCES.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- MAINTAIN WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SUCH AS ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS FOR NECESSARY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- MAINTAIN A MINIMUM OF 10' BETWEEN ROOF EDGE AND ALL ROOFTOP EQUIPMENT, INCLUDING EXHAUST FANS. IF 10' IS NOT MAINTAINED, M.C. SHALL INSTALL GUARD RAIL AS REQUIRED BY IMC 304.11.
- ALL EQUIPMENT, DUCTWORK, & PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF DUCT & LINER TO BE EXPOSED DURING CONSTRUCTION.
- ALL DUCTWORK SHALL BE CONSTRUCTED TO SMACNA STANDARDS IN ACCORDANCE WITH THE APPROPRIATE PRESSURE CLASSIFICATION.
- DUCTWORK SIZE LISTED ON PLANS ARE INTERNAL FREE AREA DIMENSIONS. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
- COORDINATE GRILLE/DIFFUSER & ACCESS PANEL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHT FIXTURES, LIGHT FIXTURE SUPPORT RODS AND FIRE SPRINKLER HEADS FOR FREE INTERFERENCE.
- AIR VENTS SHALL BE INSTALLED AT ALL HIGH POINTS & DRAINS AT ALL LOW POINTS OF WATER PIPING SYSTEMS.
- PIPING CONNECTIONS WITH UNIONS OR FLANGES SHALL BE MADE TO COILS OR TUBE BUNDLES TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
- ALL ROOF CURBS SHALL BE 18" TALL UNLESS OTHERWISE NOTED ON PLANS. ALL ROOF CURBS FOR OUTSIDE AIR INTAKE SHALL BE 30" TALL UNLESS OTHERWISE NOTED.
- MANUAL VOLUME DAMPERS SHALL BE INSTALLED AT EACH BRANCH TAKE-OFF FROM MAIN SUPPLY, RETURN, & EXHAUST DUCTS. DAMPERS SHALL BE LOCATED AS CLOSE TO THE BRANCH TAKE-OFF AS POSSIBLE & INSTALLED TO ALLOW FOR EASY ACCESS.
- VOLUME DAMPERS INSTALLED IN EXTERNALLY INSULATED DUCTWORK SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION.
- SHUT-OFF VALVES INSTALLED IN INSULATED PIPING SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION.
- DUCT SIZE TO DIFFUSERS, REGISTERS AND GRILLES SHALL BE SAME SIZE AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
- ALL MITERED RECTANGULAR/SQUARE ELBOWS SHALL HAVE AIR TURNING VANES AS SPECIFIED.
- NO DUCTWORK OR PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT, UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT LOCATIONS. COORDINATE WITH ELECTRICAL TRADE FOR EXACT LOCATIONS.
- ALL SIDEWALL GRILLES SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE, UNLESS OTHERWISE NOTED.
- OUTSIDE AIR INTAKES SHALL BE A MINIMUM DISTANCE OF 10'-0" FROM ANY EXHAUST/RELIEF OUTLET, FLUE, GAS OR PLUMBING VENT. COORDINATE WITH RESPECTIVE TRADES.
- SEAL ALL EXTERIOR OPENINGS WATER TIGHT.
- M.C. TO THOROUGHLY CLEAN ALL EXPOSED DUCTWORK FOR PAINTING AS SPECIFIED. PAINTING BY PAINTING CONTRACTOR.
- OPENINGS REQUIRED BY THE M.C. ARE BY THE M.C. UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO REVIEW ARCHITECTURAL PLANS FOR LOCATIONS OF ALL RATED WALLS, CEILINGS AND ASSEMBLIES SO THAT ALL RATINGS ARE MAINTAINED.

## MECHANICAL RENOVATION NOTES:

- THE DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE M.C. IN DETERMINING THE SCOPE OF WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL WORK REQUIRED TO COMPLETE THE PROJECT. THE M.C. SHALL REVIEW THE DEMOLITION PLANS AND COORDINATE WITH THE DEMOLITION CONTRACTOR FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- REFER TO DIVISION 1, GENERAL REQUIREMENTS, CUTTING AND PATCHING FOR ALL CUTTING AND PATCHING.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- ALL REMOVED ITEMS THAT THE OWNER WANTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- THE INSTALLING CONTRACTOR SHALL VERIFY ALL STRUCTURAL REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.

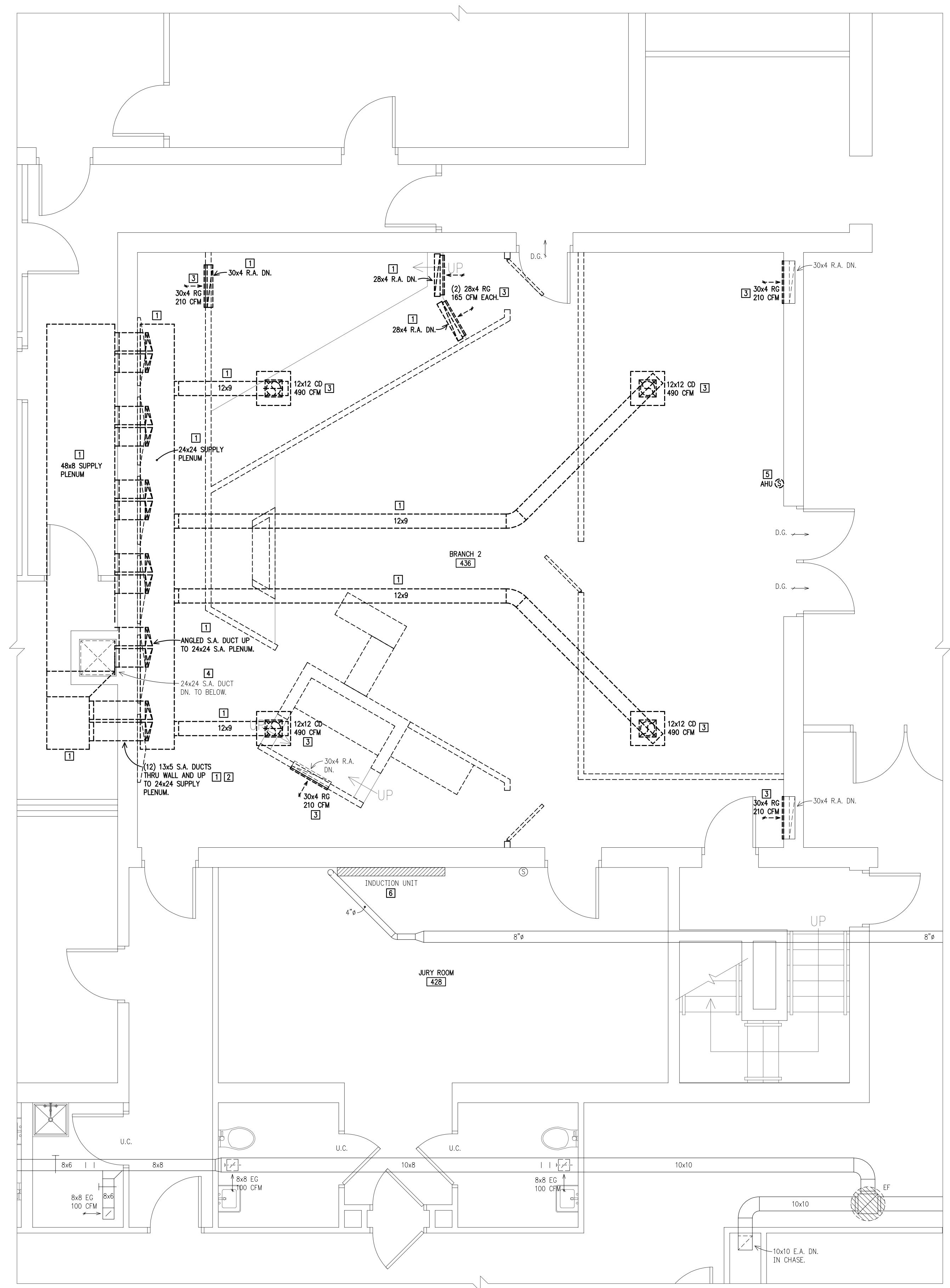
## HYDRONIC PIPE SIZING CHART

REQUIRED PIPE SIZE	COPPER PIPE (GPM)	STEEL PIPE (GPM)
3/4"	0 - 3.0	0 - 3.5
1"	3.1 - 6.5	3.6 - 6.7
1 1/4"	6.6 - 11.0	6.8 - 14.0
1 1/2"	11.1 - 18.0	14.1 - 21.0
2"	18.1 - 38.0	21.1 - 42.0
2 1/2"	38.1 - 68.0	42.1 - 68.0
3"	68.1 - 110.0	68.1 - 120.0
4"		120.1 - 250.0
5"		250.1 - 450.0
6"		450.1 - 720.0



**CLARK COUNTY COURTHOUSE**  
**BRANCH 2 - PHASE 1**  
517 COURT STREET, NEILLSVILLE, WISCONSIN 54456

**MECHANICAL DEMOLITION NOTES:**  
 1. REMOVE DUCTWORK COMPLETE AS SHOWN.  
 2. WALL PATCH AT UNUSED WALL OPENINGS BY G.C.  
 3. REMOVE GRILLE/REGISTER/DIFFUSER COMPLETE AND TURN OVER TO OWNER.  
 4. SUPPLY DUCT IN CHASE REMAINS.  
 5. DISCONNECT AND REMOVE SENSOR. NEW SENSOR TO BE INSTALLED IN REMODEL WORK.  
 6. G.C. TO PREP INDUCTION UNIT CABINET FOR REPAINTING IN REMODEL WORK.



1  
M101 MECHANICAL FIFTH AND SIXTH FLOOR PLAN  
(DEMOLITION)

NORTH

TITLE:  
**MECHANICAL FIFTH & SIXTH FLOOR PLAN - DEMOLITION**

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

DOCUMENT PHASE:  
**BIDDING DOCUMENTS**

PROJECT NO:  
**25001**

DRAWN BY:  
**NW/LJJ**

DESIGNED BY:  
**LJJ**

DATE:  
**12/18/2025**

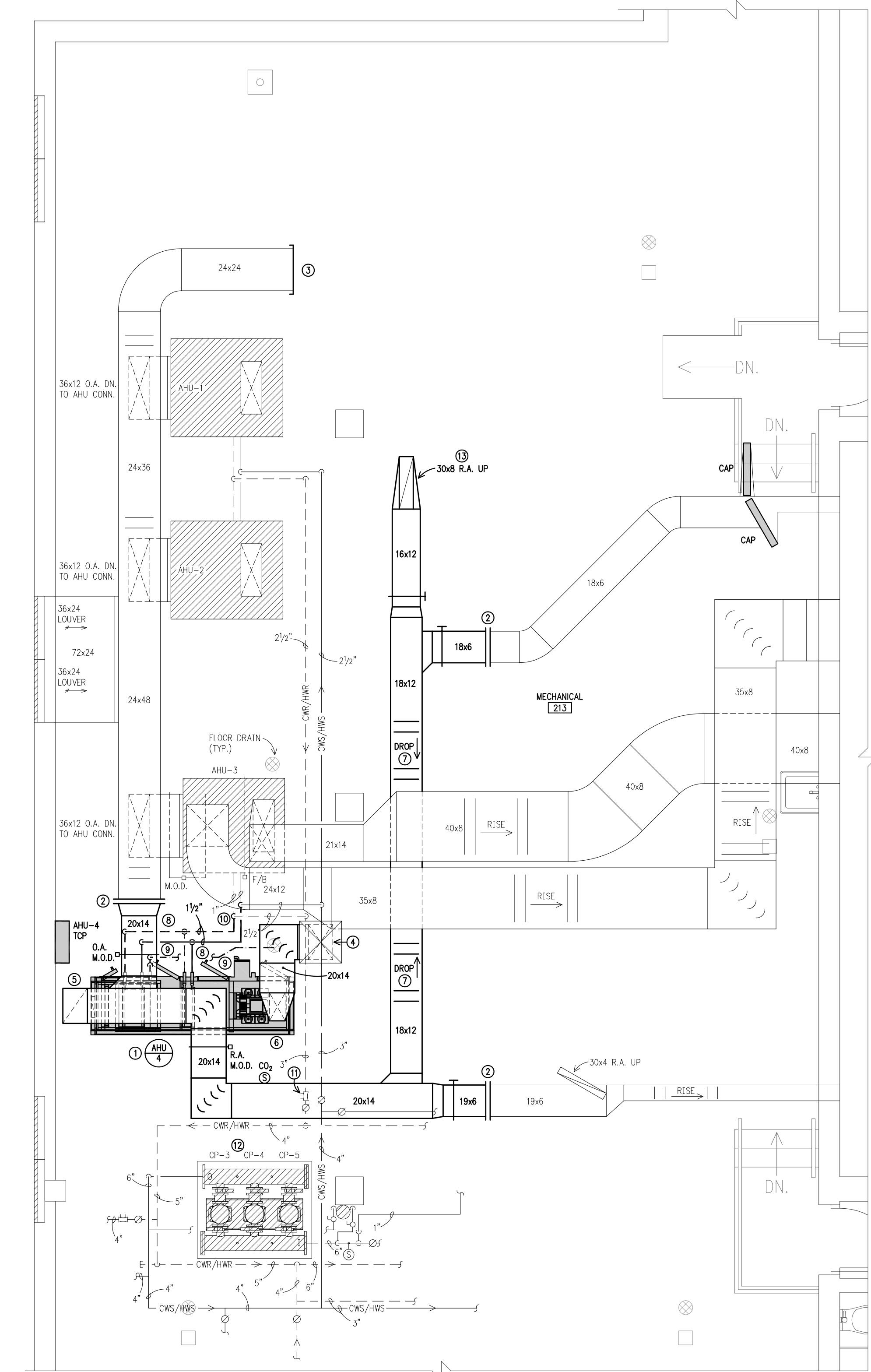
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SHEET:  
**M101**

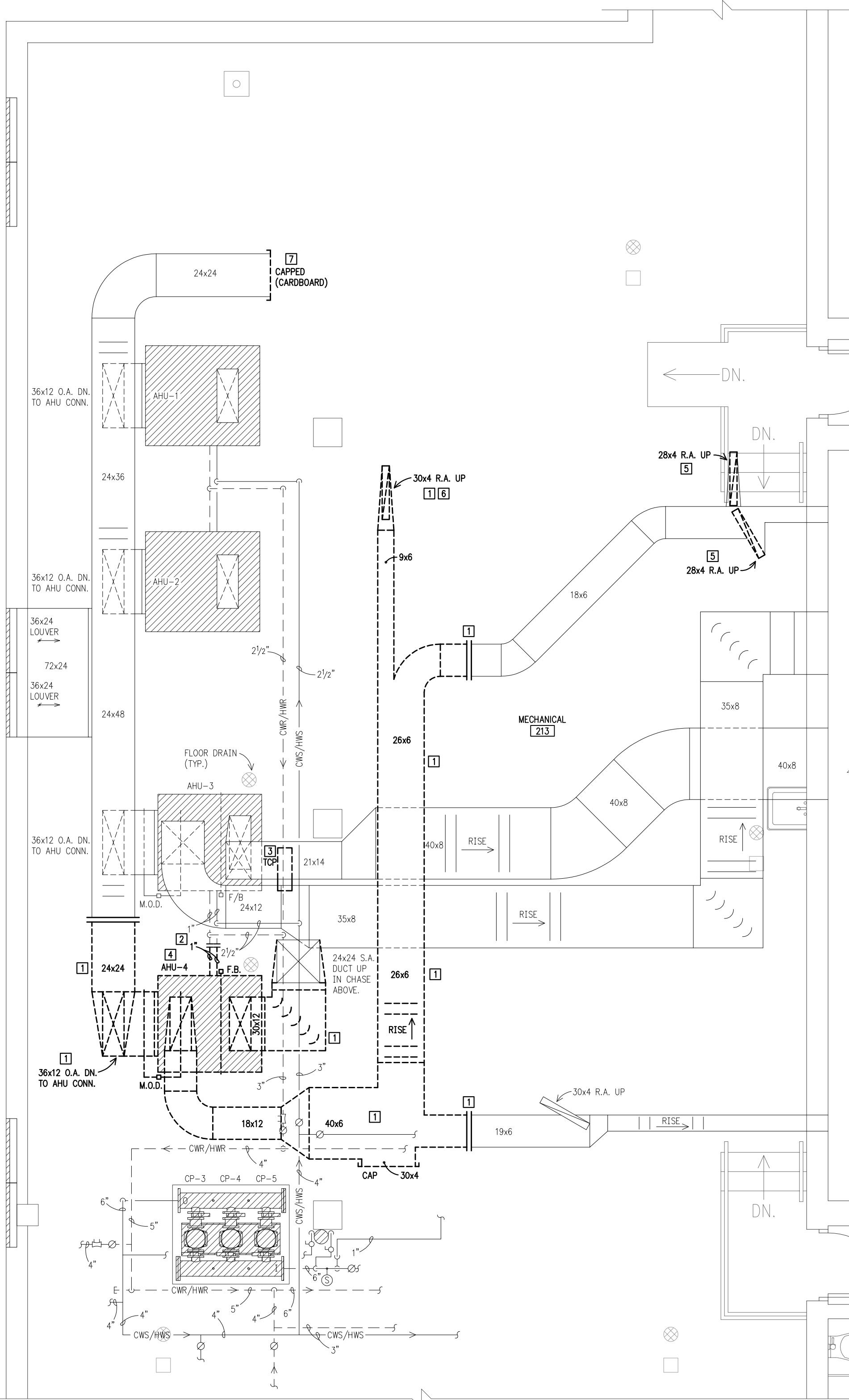
**CLARK COUNTY COURTHOUSE**  
BRANCH 2 - PHASE 1

517 COURT STREET, NEILLSVILLE, WISCONSIN 54456

- MECHANICAL DEMOLITION NOTES:**
1. REMOVE DUCTWORK TO BREAK LINES OR AS SHOWN AND CAP WHERE INDICATED.
  2. REMOVE PIPING COMPLETE TO BREAK LINES AS SHOWN INCLUDING ACCESSORIES.
  3. T.C.C. TO REMOVE TOP COMPLETE.
  4. REMOVE AIR HANDLING UNIT COMPLETE INCLUDING, RETURN AIR, OUTSIDE AIR, AND FADE/BYPASS DAMPERS, HEAT/COOLING COIL, SUPPORTS, AND ACCESSORIES. CONTROL DISCONNECTOR BY T.C.C.
  5. CAP DUCT NEAR MAIN FLOOR PATCH BY G.C.
  6. G.C. TO ENLARGE OPENING AS REQUIRED.
  7. REMOVE AND PREP FOR SHEET METAL CAP.



**2 MECHANICAL THIRD AND FOURTH FLOOR PLAN**  
**M102** 1/4"= 1'-0" (DEMOLITION) **NORTH**



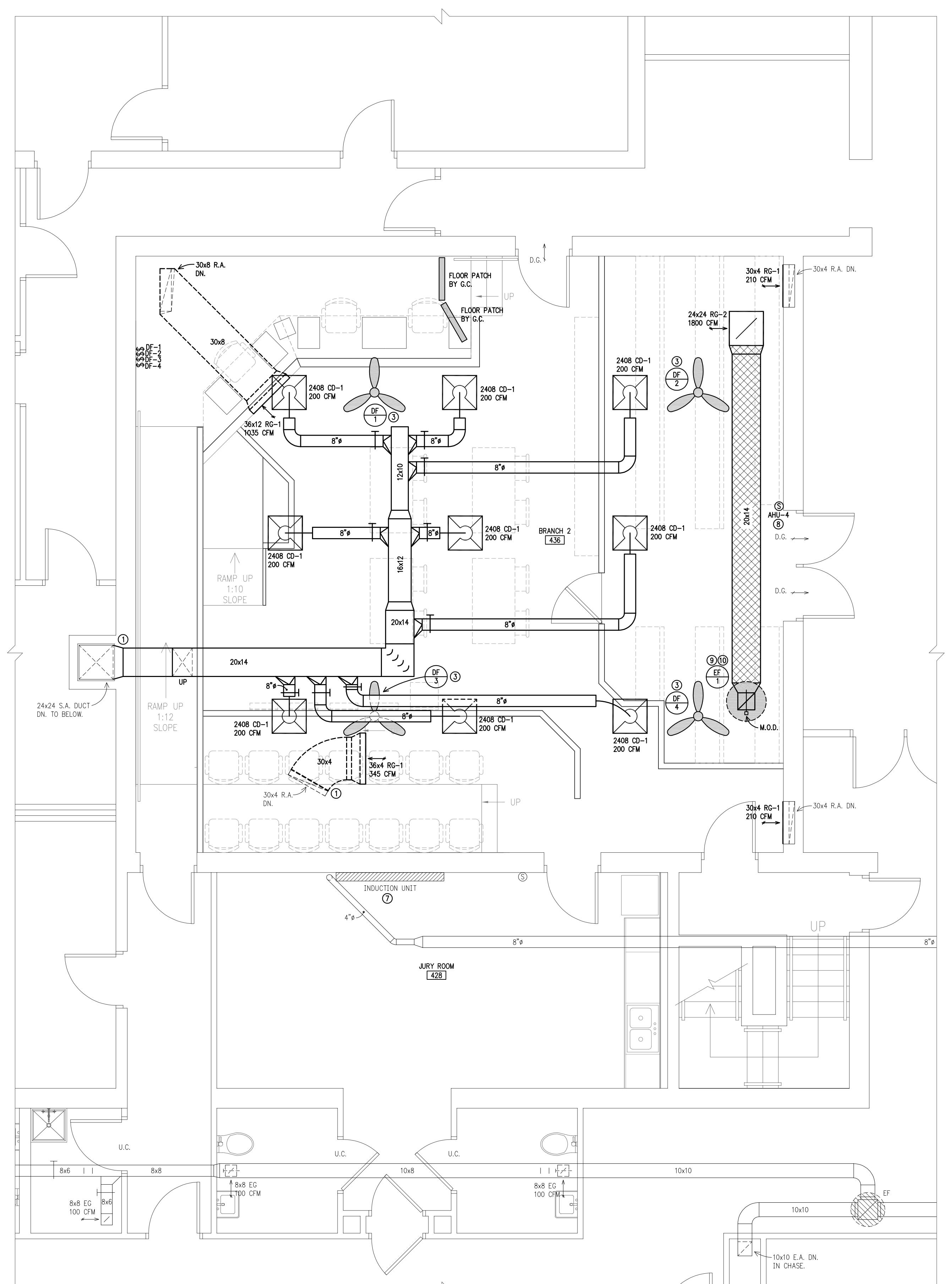
**1 MECHANICAL THIRD AND FOURTH FLOOR PLAN**  
**M102** 1/4"= 1'-0" (DEMOLITION) **NORTH**

- MECHANICAL REMODEL NOTES:**
1. MOUNT AHU LEVEL ON CONCRETE PAD. PAD BY G.C.
  2. NEW CONNECTION TO EXISTING DUCT EXTEND AS SHOWN.
  3. CAP WITH SHEET METAL AND INSULATION. SEAL AIR TIGHT.
  4. 20x14 UP. TRANSITION/CONNECT TO EXISTING 24x24 DUCT UP IN CHASE.
  5. 20x14 R.A. DN. TO R.A. PLUM. PLUM. TO BE FULL SIZE OF R.A. CONNECTION TO AHU-4.
  6. 20x14 S.A. DN. TO AHU-4 S.A. CONNECTION TRANSITION AS REQUIRED.
  7. KEEP DUCT AS HIGH AS POSSIBLE BELOW EXISTING DUCT.
  8. SEE DETAILS FOR INDIVIDUAL CONNECTIONS AND PIPE SIZES TO HOT WATER AND CHILLED WATER COILS.
  9. PROVIDE CONDENSATE TRAP PER MFG. INSTRUCTIONS. SEE DETAILS FOR REFERENCE. PITCH CONDENSATE PIPING AS REQUIRED TO EXISTING FLOOR DRAIN. SIZE PER MFG. REQUIREMENTS.
  10. CONNECT NEW PIPING TO 2½" BRANCH PIPING.
  11. REBALANCE EXISTING BALANCE VALVE TO 87.5 GPM.
  12. REBALANCE COOLING FLOW SETPOINT TO 470.9 GPM AND HEATING FLOW SETPOINT TO 420.5 GPM.
  13. G.C. TO MODIFY FLOOR OPENING AS REQUIRED.

TITLE:	MECHANICAL THIRD & FOURTH FLOOR PLAN - DEMOLITION & REMODEL
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DOCUMENT PHASE:	BIDDING DOCUMENTS
PROJECT NO.:	25001
DRAWN BY:	NW/LJJ
DESIGNED BY:	LJJ
DATE:	12/18/2025
REV.: DATE: REMARK:	
SHEET:	<b>M102</b>

**CLARK COUNTY COURTHOUSE**  
BRANCH 2 - PHASE 1  
517 COURT STREET, NEILLSVILLE, WISCONSIN 54456

- MECHANICAL REMODEL NOTES:
1. NEW CONNECTION TO EXISTING DUCT. EXTEND AS SHOWN.
  2. NOT USED.
  3. SUPPORT AS REQUIRED. MAINTAIN ALL REQUIRED CLEARANCES.
  4. NOT USED.
  5. NOT USED.
  6. NOT USED.
  7. G.C. TO PRIME AND PAINT INDUCTION UNIT COVER. COLOR CHOOSE BY ARCHITECT/OWNER.
  8. PROVIDE NEW TEMPERATURE SENSOR AS SHOWN.
  9. MOUNT EF LEVEL ON ROOF CURB. G.C. TO PROVIDE NEW ROOF OPENING. FLASH AND SEAL WATER TIGHT. VERIFY AND MAINTAIN ANY EXISTING ROOF WARRANTIES. VERIFY WITH OWNER.
  10. EF IS FOR RELIEF AIR. SEE SCHEDULE AND SPECIFICATIONS.



1 MECHANICAL FIFTH AND SIXTH FLOOR PLAN  
(REMODEL)

M201 1/4" = 1'-0"

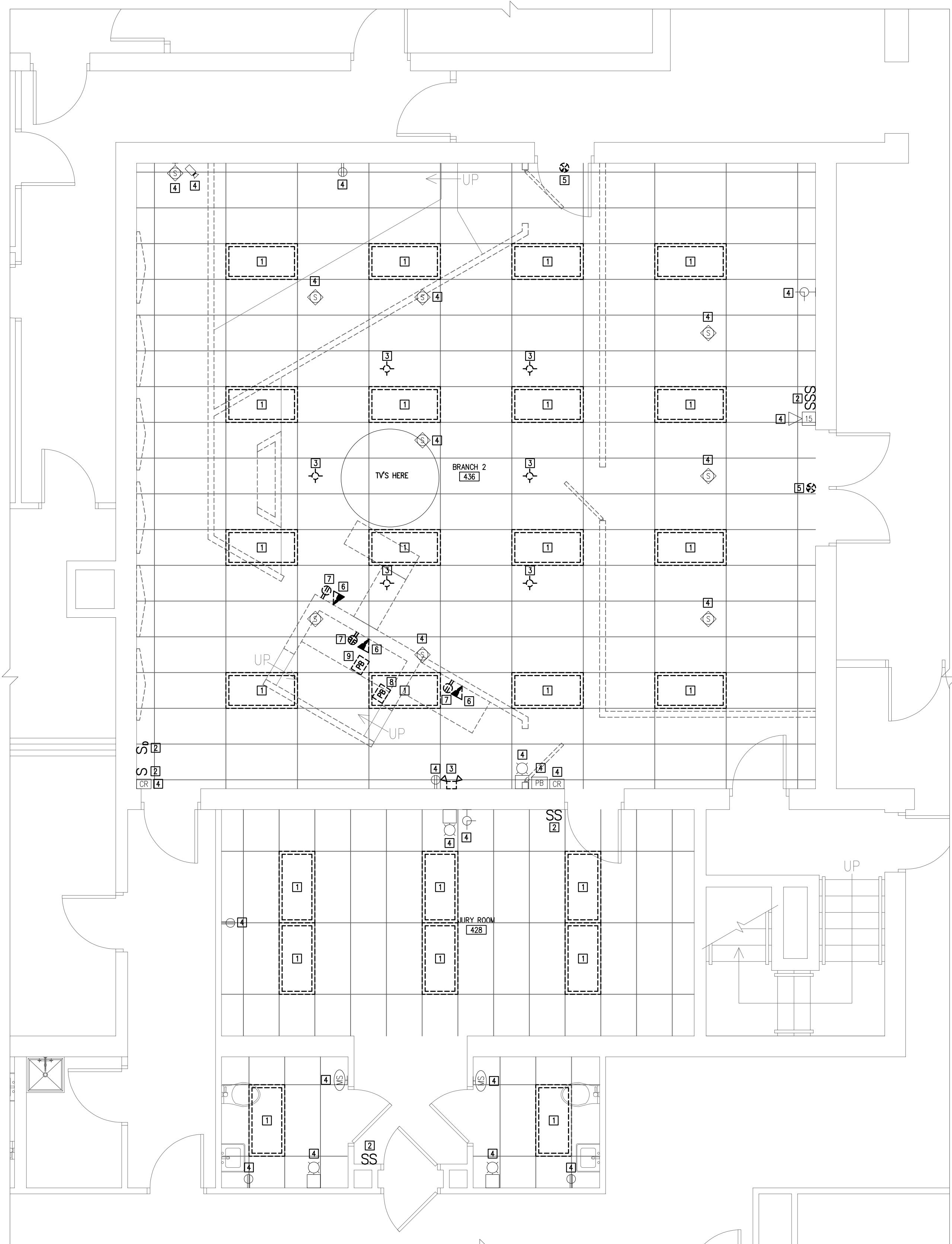
NORTH

TITLE:  
MECHANICAL FIFTH & SIXTH FLOOR PLAN - REMODEL  
  
DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY  
  
DOCUMENT PHASE:  
BIDDING DOCUMENTS  
  
PROJECT NO.:  
25001  
  
DRAWN BY:  
NW/LJJ  
  
DESIGNED BY:  
LJJ  
  
DATE:  
12/18/2025  
  
REV.: DATE: REMARK:  
  
SHEET:  
**M201**



**CLARK COUNTY COURTHOUSE  
BRANCH 2 - PHASE 1**

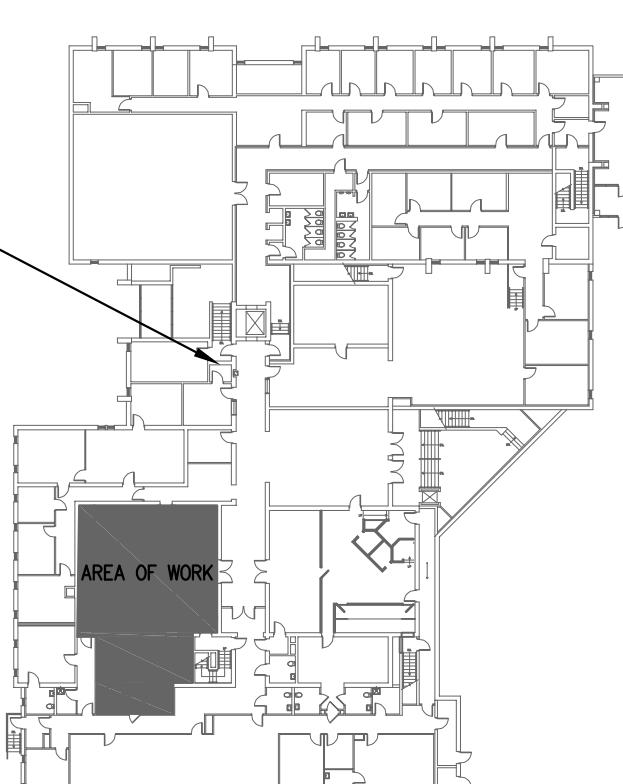
517 COURT STREET, NEILLSVILLE, WISCONSIN 54456



**1 E101** ELECTRICAL FIFTH AND SIXTH FLOOR PLAN  
(DEMOLITION)

NORTH

PANEL E201R



**TITLE:**  
ELECTRICAL FIFTH  
AND SIXTH FLOOR  
PLAN - DEMOLITION

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

**DOCUMENT PHASE:**  
BIDDING  
DOCUMENTS

**PROJECT NO.:**  
25001

**DRAWN BY:**  
CRK

**DESIGNED BY:**  
CRK

**DATE:**  
12/18/2025

**REV.:** **DATE:** **REMARK:**

**SHEET:**

**E101**

**ELECTRICAL DEMOLITION NOTES:**

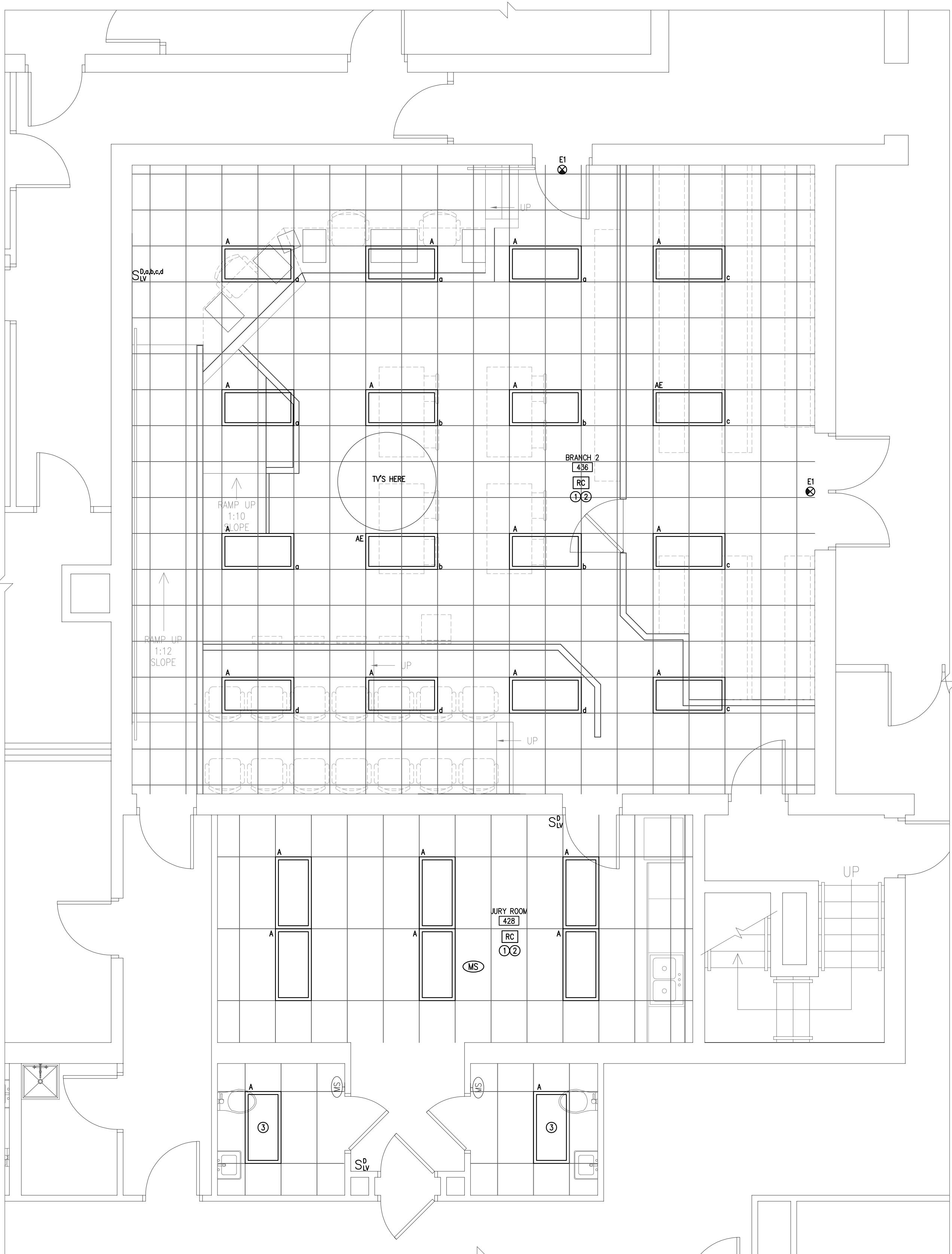
- EXISTING AIR HANDLING UNIT TO BE REMOVED. DISCONNECT UNIT AND RETAIN EXISTING CIRCUITING FOR REUSE IN REMODEL WORK.



**1** **E102** **ELECTRICAL THIRD AND FOURTH FLOOR PLAN** **1/4"= 1'-0"** **(DEMOLITION)**

A compass rose with a large arrow pointing upwards, labeled 'NORTH' in bold capital letters below it.

**CLARK COUNTY COURTHOUSE**  
BRANCH 2 - PHASE 1  
517 COURT STREET, NEILLSVILLE, WISCONSIN 54456

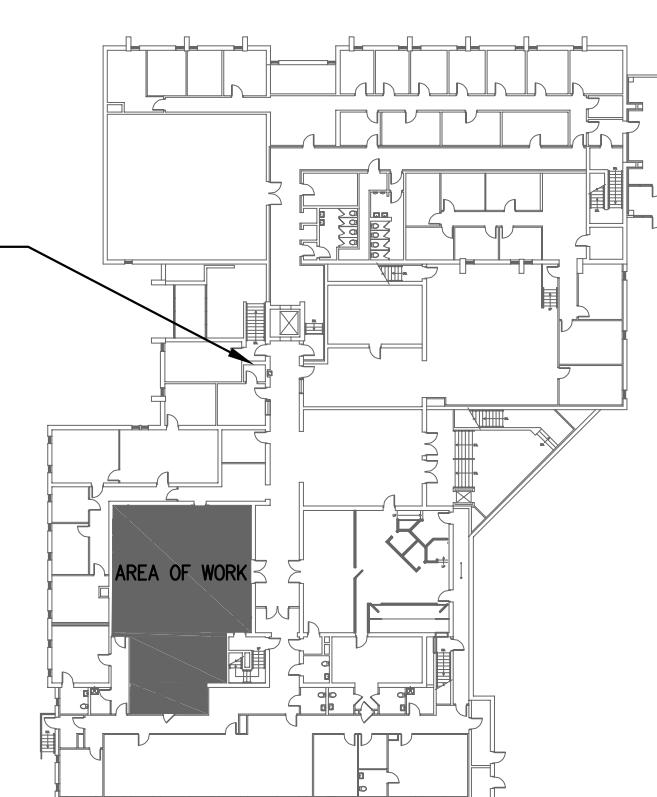


1  
E201  
ELECTRICAL FIFTH AND SIXTH FLOOR PLAN  
(REMODEL - LIGHTING)

1/4" = 1'-0"

NORTH

PANEL E201R



KEYPLAN  
NOT TO SCALE  
NORTH

E201

- ELECTRICAL REMODEL NOTES:**
1. PROVIDE ROOM CONTROLLER AND LOW VOLTAGE SWITCHES IN SPACE.
  2. CIRCUIT NEW LIGHTING AND LIGHTING CONTROLS TO EXISTING LIGHTING CIRCUIT(S) SERVING THE SPACE.
  3. CIRCUIT NEW LIGHT TO EXISTING CIRCUIT AND LIGHTING CONTROLS SERVING THE SPACE.

TITLE:  
ELECTRICAL FIFTH  
AND SIXTH FLOOR  
PLAN - REMODEL  
LIGHTING

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

DOCUMENT PHASE:  
BIDDING  
DOCUMENTS

PROJECT NO.:  
25001

DRAWN BY:  
CRK

DESIGNED BY:  
CRK

DATE:  
12/18/2025

REV.: DATE: REMARK:

SHEET:





1  
E203  
ELECTRICAL THIRD AND FOURTH FLOOR PLAN  
(REMODEL)

1/4" = 1'-0"

↑  
NORTH

TITLE:  
ELECTRICAL THIRD  
AND FOURTH FLOOR  
PLAN - REMODEL

DO NOT SCALE DRAWINGS  
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CRK

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CRK

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12/18/2025

REV.: DATE: REMARK:

SHEET:  
**E203**

## LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS:		DW = DRY WALL ES = EXPOSED STRUCTURE	LG = LAY-IN GRID L = LED	P = PENDANT PL = PLASTER	R = RECESS S = SURFACE	W = WALL MOUNTED V = VARIES	UNV = UNIVERSAL VOLTAGE 120-277V CH = CHAIN HUNG	PO = POLE	LP = LINER PANEL
NOTE: SEE SPECIFICATIONS SECTIONS 28-51-00 FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE AND INSTALLATION REQUIREMENTS. MANUFACTURERS NAMES AND CATALOG NUMBER ARE USED FOR ESTABLISHING THE QUALITY AND PERFORMANCE ONLY. EQUIPMENT MANUFACTURER BY OTHERS ARE Equally ACCEPTABLE PROVIDED THEY MEET OR EXCEED QUALITY, DIMENSIONS AND PERFORMANCE. OWNER IS PLANNING ON SUBMITTING FOR FOCUS ON ENERGY REBATES. ALL FIXTURES SHALL BE DLC LISTED IF AVAILABLE.									
DES.	DESCRIPTION			LIGHTING FIXTURE	LAMP DATA	VOLT	MNTG	CEILING	MNTG
		MFG.	CATALOG SERIES	LUMEN	COLOR TEMP.	TYPE	TYPE	HEIGHT	FIXT. DEPTH
A	2'X4' ARCHITECTURAL TROFFER	METALUX	24C2SB-SCT3-UNV	SELECTABLE	SELECTABLE	UNV	R	LG	V
AE	2'X4' ARCHITECTURAL TROFFER, BATTERY BACK-UP	METALUX	24C2SB-SCT3-UNV-EL14WSD	SELECTABLE	SELECTABLE	UNV	R	LG	V
E1	UNIVERSAL FACE EXIT LIGHT	SURE LITES	APX7-RG-BK	-	-	UNV	-	-	-

### LIGHTING FIXTURE SCHEDULE NOTES:

1. FIXTURE MODEL NUMBER MAY NOT REFLECT ALL MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING EQUIPMENT, LENSES, STEMS, SAFETY CHAINS, END PLATES AND ALL OTHER HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. SEE MOUNTING DETAILS WHEN APPLICABLE.
2. SET TO LOW LUMEN OUTPUT AND 3500K UNLESS NOTED OTHERWISE.

## MOTORS, HVAC & EQUIPMENT CONNECTIONS

PLAN SYMBOL	CIRCUIT NUMBER	FEEDER SIZE	CHARACTERISTICS			DISCONNECT DEVICE	CHARACTERISTICS	STARTER	CONTROLS/CONTROL WIRING			NOTES	
			KW	HP-FLA	VOLTS/PHASE	UNIT LOCATION	NEMA TYPE PROVIDED BY	LOCATION	NEMA TYPE PROVIDED BY	LOCATION	CHARACTERISTICS	WIRE PROVIDED BY	
AHU-3	NOTE 2	2.5MCA	480/3	213	120/1	436	HEAVY DUTY FUSED DISCONNECT	1 E.C.	AT UNIT	-	-	-	SEE MECH 1,3
EF-1	E201R-24	2-#12+1-#12GND	1/2HP	120/1	436	FURNISHED WITH UNIT	- M.C.	AT UNIT	-	-	-	-	HVAC CONTROLS
DF-1	E201R-25	2-#12+1-#12GND	1/10HP	120/1	436	MANUAL TOGGLE CONTROLLER/DISCONNECT	1 E.C.	AT UNIT	-	-	-	-	HVAC CONTROLS
DF-2	E201R-25	2-#12+1-#12GND	1/10HP	120/1	436	MANUAL TOGGLE CONTROLLER/DISCONNECT	1 E.C.	AT UNIT	-	-	-	-	SPEED CONTROLLER
DF-3	E201R-25	2-#12+1-#12GND	1/10HP	120/1	436	MANUAL TOGGLE CONTROLLER/DISCONNECT	1 E.C.	AT UNIT	-	-	-	-	SPEED CONTROLLER
DF-4	E201R-25	2-#12+1-#12GND	1/10HP	120/1	436	MANUAL TOGGLE CONTROLLER/DISCONNECT	1 E.C.	AT UNIT	-	-	-	-	SPEED CONTROLLER

1. SEE MECHANICAL SHEETS FOR LOCATION OF EQUIPMENT AND COORDINATION OF WORK.
2. EXTEND/REUSE EXISTING RACEWAY AND CONDUCTORS PREVIOUSLY SERVING DEMOLISHED AIR HANDLER AT SIMILAR LOCATION.
3. PROVIDE 120V CIRCUIT FOR INTEGRAL LIGHTING. CIRCUIT TO NEAREST CIRCUIT SERVING RECEPTACLES IN THE AREA.

PANEL: E201R VOLTAGE: 208Y/120V-3P-4W MOUNTING: FLUSH FED FROM:												
TYP	DESCRIPTION	BRK	LOAD	NO.	PH A	PH B	PH C	NO.	LOAD	BRK	DESCRIPTION	TYP
EX - 426.431, PROBATE LTG		20A		1	0			2		20A	EX - 404 REC	
EX - 412.A3B.413-416 LTG		20A		3	0			4		20A	EX - 404 REC	
EX - 426 LTG		20A		5				6		20A	EX - 404.404 LTG	
EX - 411.417, 419, 420		20A		7	0			8		20A	EX - 402 LTG	
EX - 427.429, 433, 439		20A		9				10		20A	EXISTING	
EX - HALLWAYS 423.412, 430 LTG		20A		11				12		20A	EX - 401, 523, 524	
EX - CAN LTG FOR ENTRANCES 407		20A		13	0			14		20A	EX - 405 LTG	
EX - 418.422, 421 LTG		20A		15	0			16		20A	SPARE	
EX - HANDICAP DOORS		20A		17				18		20A	EX - 404.422 LTG	
EX - BAILIFF DESK		20A		19	0			20		20A	EXISTING	
R REC - JUDGES BENCH 436		20A	1080	21	1080			22		20A	EX - BAS POWER SUPPLY	
R REC - FLOOR BOXES 436		20A	1080	23		2256	24	1176	20A	BR-1	M	
R DF-1, DF-2, DF-3, DF-4		20A	1440	25	1440			26		20A	SPARE	
R REC - FLOOR BOXES, REC'S 436		20A	1080	27		1080		28		20A	SPARE	
R REC - COUNTER 428		20A	360	29		360	30	20A		20A	SPARE	
R REC - REFRIGERATOR 428		20A	1500	31	1500			32		20A	SPARE	
SPACE				33	0			34		20A	SPARE	
SPACE				35	0			36		20A	SPARE	
BUS TOTALS (kVA)												
CONNECTED:				0	0	0	C - CONTINUOUS LOAD (*125%)					
DEMAND:	7.7			0	0	0	LM - LARGEST MOTOR LOAD (*125%)					
				0	0	0	M - MOTOR LOAD					
				0	0	0	N - NON-CONTINUOUS LOAD					
BUS TOTALS (AMPS)												
CONNECTED:	21.4			0	0	0	R - RECEPTACLE DEMAND (100% 10kVA, 50% OF REMAINING)					
DEMAND:	21.4			2940	2160	1440	K - KITCHEN LOAD (65% OF LOAD)					
				2940	2160	2616	TOTAL DEMAND PER PHASE (VA)					

SYMBOL SCHEDULE	
LIGHTING	RECEPTACLES
	DUPLEX RECEPTACLE -18" TO CENTER AFF
	GFI PROTECTED DUPLEX RECEPTACLE -18" TO CENTER AFF
	DOUBLE DUPLEX RECEPTACLE -18" TO CENTER AFF
POWER	
	CEILING FIXTURE
	EXIT LIGHT -UNIVERSAL MOUNT
	EMERGENCY LIGHT -WALL MOUNT
	JUNCTION BOX -FLOOR MOUNT
	SINGLE POLE WALL SWITCH -44" TO CENTER AFF
	DIMMING WALL SWITCH -44" TO CENTER AFF
	LOW VOLTAGE WALL SWITCH -44" TO CENTER AFF
	OCUPANCY SENSOR -CEILING MOUNT
SECURITY	
	CARD READER -44" TO CENTER AFF
	DOOR POSITION SWITCH -NUMBER REPRESENTS CANDLEA RATING
	DOOR LOCK -NUMBER REPRESENTS CANDLEA RATING

## GENERAL PLUMBING NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL CODES; AS WELL AS THE NATIONALLY RECOGNIZED APPROVED AGENCIES.
2. PLUMBING, MECHANICAL, FIRE PROTECTION AND ELECTRICAL CONTRACTORS SHALL COORDINATE WITH ONE ANOTHER ALONG WITH OTHER TRADES BEFORE BEGINNING ANY INSTALLATION AND CONTINUING THROUGHOUT PROJECT.
3. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAMETRIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
4. PLUMBING CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, WALL HEIGHTS, DOOR SWINGS, WINDOW LOCATIONS, AND ANY OTHER INFORMATION CRITICAL TO THE PLACEMENT OF PIPING, EQUIPMENT, ETC. COORDINATE ANY POSSIBLE CONFLICTS WITH GENERAL CONTRACTOR OR PROJECT MANAGER BEFORE PERFORMING ANY WORK.
5. PLUMBING CONTRACTOR IS RESPONSIBLE TO FOLLOW/INSTALL AS PER COMMENTS/CORRECTIONS MADE ON THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES' CONDITIONALLY APPROVED PLUMBING PLANS.
6. PROVIDE OWNER TRAINING AND OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT PRIOR TO COMPLETION OF WORK.
7. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, EQUIPMENT MACHINERY, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY VERIFY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
8. THE INSTALLING CONTRACTOR SHALL VERIFY REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.
9. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES WITH ALL TRADES; BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OF EQUIPMENT ORDERS.
10. VERIFY ALL SANITARY PIPING INVERT ELEVATIONS BEFORE PERFORMING ANY WORK, AND COORDINATE INVERTS AT ALL FOOTINGS AND FOUNDATION WALLS WITH GENERAL CONTRACTOR.
11. SANITARY WASTE AND STORM PIPING LOCATED IN CEILING SPACE, CHASES OF LIBRARY, OFFICES, CONFERENCE, TRAINING ROOMS ETC. WHERE SOUND NEEDS TO BE MINIMAL, ALL PIPING SHALL BE CAST IRON OR INSULATED PVC PIPING. COORDINATE WITH GENERAL CONTRACTOR.
12. ALL MATERIALS INSTALLED IN PLENUM RATED CEILINGS SHALL BE PLENUM RATED. PLUMBING CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND GENERAL CONTRACTOR ON LOCATION OF PLENUM RATED CEILINGS BEFORE PERFORMING ANY WORK.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, ETC.
14. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
15. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
16. MAINTAIN WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SUCH AS ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS PER N.E.C. REQUIREMENTS.
17. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
18. ALL EQUIPMENT, AND PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF PLUMBING PIPING TO BE EXPOSED DURING CONSTRUCTION.
19. FOR ALL FIRE RATED PENETRATIONS, ONLY USE UL LISTED, TESTED, AND APPROVED MATERIALS AND METHODS THAT MEET DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES' APPROVAL. COORDINATE WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR ON LOCATION AND RATING OF ALL FIRE RATED WALLS, CEILINGS, FLOORS, ETC. USE FIRE RATED MATERIALS AND METHODS THAT MEET DEPARTMENT OF COMMERCE APPROVAL.
20. REFER TO ARCHITECTURAL ELEVATION PLAN FOR ALL LAVATORY, WATER COOLER, ETC. MOUNTING HEIGHTS.
21. COORDINATE ACCESS PANEL IN HARD CEILINGS FOR CONTROL/ISOLATION VALVES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHT FIXTURES, LIGHT FIXTURE SUPPORT RODS, AND FIRE SPRINKLER HEADS FOR INTERFERENCE.
22. PROVIDE AND INSTALL PIPE SLEEVE AT ALL BUILDING FOUNDATION PENETRATIONS. CORE DRILL THRU FOUNDATION WALL WHERE REQUIRED.
23. PROVIDE AND INSTALL PIPE SLEEVE AND SEAL ALL FLOOR AND WALL PENETRATIONS AIR AND WATER TIGHT. CORE DRILL THRU FLOOR OR WALL AS REQUIRED COORDINATE WITH GENERAL CONTRACTOR BEFORE PERFORMING ANY CORE DRILLING.
24. SHUT-OFF VALVES INSTALLED IN INSULATED PIPING SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION.
25. PLUMBING CONTRACTOR SHALL VERIFY ALL SANITARY AND WATER PIPING LOCATION, INVERTS, AND CONDITION BEFORE PERFORMING ANY WORK.
26. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT LOCATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATIONS.
27. PLUMBING CONTRACTOR TO THOROUGHLY CLEAN ALL EXPOSED PIPING FOR PAINTING AS SPECIFIED. PAINTING BY PAINTING CONTRACTOR.

## PLUMBING LEGEND

### GENERAL SYMBOLS

- 100.0 INVERT ELEVATION
- KEYNOTES DEMOLITION
- KEYNOTES FIRE PROTECTION
- KEYNOTES NEW OR REMODEL
- KEYNOTES NEW OR REMODEL
- KEYNOTES NEW OR REMODEL
- FLOOR DRAIN
- HOSE BIBB OR WALL HYDRANT
- ROOF DRAIN
- PLUMBING FIXTURE/EQUIPMENT (NEW)
- PLUMBING FIXTURE/EQUIPMENT (DEMO)
- PLUMBING FIXTURE/EQUIPMENT (EXISTING)
- ROOM NAME
- INDICATES ROOM NAME
- INDICATES ROOM NUMBER
- SECTION CUT

### CALLOUT BUBBLE

- 1 PT CALLOUT REFERENCE DETAIL NUMBER
- PI CALLOUT REFERENCE SHEET NUMBER

### REVISION NUMBER

### REVISION CLOUD

### MATCH PIPE BREAK

SEE SHEET P.... CONTINUATION OF PIPE BREAK  
FOR CONTINUATION.

### PIPING SYMBOLS ABBREVIATIONS

- BALL VALVE
- CHECK VALVE
- DOMESTIC WATER CIRCULATING PUMP
- FIXTURE VALVE
- GATE VALVE
- GLOBE VALVE
- INDICATES DIRECTION OF WATER FLOW
- PIPE CAP
- PIPE ELEVATION UP OR DOWN
- PIPE RISER UP
- PIPE TEE - BOTTOM CONNECTION
- PIPE TEE - TOP CONNECTION
- PIPE UNION
- PIPE SIZE
- POINT OF CONNECTION/RECONNECTION
- POINT OF DISCONNECTION FOR DEMOLITION

### PIPING SYSTEM ABBREVIATIONS

- COLD WATER (C.W.)
- HOT WATER (H.W.)
- HOT WATER RETURN (H.W.R.)
- RAIN LEADER (R.L.)
- SANITARY SEWER, SANITARY WASTE (S.W.)
- STORM SEWER (ST.)
- VENT (V.)
- CAST IRON PIPING
- CIRCUIT VENT
- RELIEF VENT
- WASTE (SANITARY)
- VENT (SANITARY)
- VENT THRU ROOF

### EQUIPMENT ABBREVIATIONS

- C.O. CLEAN OUT
- D.W.C.P. DOMESTIC WATER CIRCULATING PUMP
- E.W.H. ELECTRIC WATER HEATER
- F.C.O. FLOOR CLEAN OUT
- W.C.O. WALL CLEAN OUT
- W.H.A. WATER HAMMER ARRESTOR

### FIXTURES ABBREVIATIONS

- L LAVATORY SINK
- M.S. MOP SINK
- S. SINK
- W.C. WATER CLOSET

### CODE ABBREVIATIONS

- D.S.P.S. DEPT. SAFETY PROFESSIONAL SERVICES
- I.E.C.C. INTERNATIONAL ENERGY CONSERVATION CODE
- I.F.G.C. INTERNATIONAL FIRE GAS CODE
- N.F.P.A. NATIONAL FIRE PROTECTION ASSOCIATION
- N.F.P.A. 54 NATIONAL FUEL GAS CODE

### GENERAL ABBREVIATIONS

- A.F.C. ABOVE FINISH CEILING
- A.F.F. ABOVE FINISH FLOOR
- A.F.G. ABOVE FINISH GRADE
- A.F.R. ABOVE FINISH ROOF
- B.F.C. BELOW FINISH CEILING
- B.F.G. BELOW FINISH GRADE
- B.T.U.H. BRITISH THERMAL UNIT PER HOUR
- C.T.U.H. CENTERLINE THERMAL UNIT
- C. CENTERLINE
- C.O. CLEAN OUT
- CONT. CONTINUE
- CU. FT. CUBIC FEET
- CU. IN. CUBIC INCHES
- D. DEGREE
- D.D.C. DIRECT DIGITAL CONTROLS
- D.F.U. DRAINAGE FIXTURE UNITS
- DIA. or # DIAMETER
- DN. DIA. OR D
- D.W.C. DRAINING
- ELEC. ELECTRICAL
- EXIST. EXISTING
- F. DEGREES FAHRENHEIT
- FIN. FL. FINISH FLOOR
- FL. FLOOR
- F.P.M. FEET PER MINUTE
- F.P.S. FOOT PER SECOND
- ft. FEET
- GAL. GALLONS
- G.P.H. GALLONS PER HOUR
- G.P.M. GALLONS PER MINUTE
- HD. HEAD (FEET)
- I.E. INVERT ELEVATION
- H.P. HORSEPOWER
- H.R.C. HORN
- H.V.A.C. HEATING, VENTILATION AND AIR CONDITIONING
- I.D. INSIDE DIAMETER
- IN. INCH OR INCHES
- k.w. KILOWATT
- lbs. POUNDS
- L.W.T. LEAVING WATER TEMPERATURE
- MAX. MAXIMUM
- M.B.H. THOUSAND B.T.U.H.
- MECH. MECHANICAL
- MFG. MANUFACTURER
- MIN. MINIMUM
- MTD. MOUNTED
- N.I.C. NOT IN CONTRACT
- N.P.S. NOMINAL PIPE SIZE
- N.T.S. NOT TO SCALE
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- psi. POUNDS PER SQUARE INCH
- psig. POUNDS PER SQUARE INCH GAUGE
- RM. ROOM
- R.P.M. REVOLUTIONS PER MINUTE
- # sq.ft. SQUARE FEET
- S.P. STATIC PRESSURE
- SPEC. SPECIFICATION
- STD. STANDARD
- TEMP. TEMPERATURE
- TSTAT. THERMOSTAT
- TPY. TYPICAL
- V. VOLTS
- w.c. WATER COLUMN (GAS)
- W.S.F.U. WATER SUPPLY FIXTURE UNITS
- WTH. WITH
- 5th. FIFTH FLOOR
- 4th. FOURTH FLOOR
- 3rd. THIRD FLOOR
- 2nd. SECOND FLOOR
- 1st. FIRST FLOOR
- Base. BASEMENT FLOOR

## PLUMBING SHEET INDEX

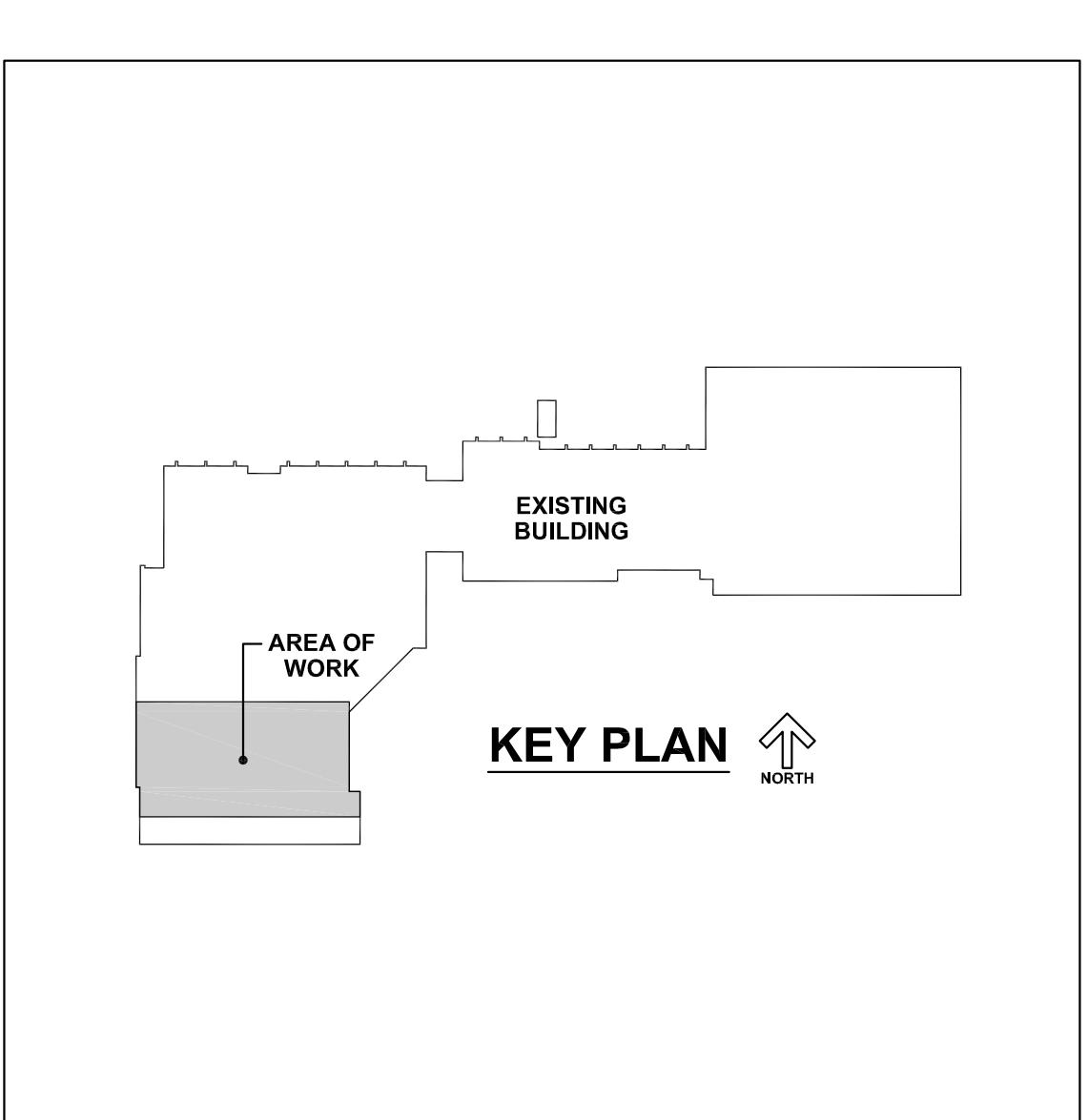
SHEET #	SHEET NAME
P100	PLUMBING GENERAL INFORMATION SHEET
P101	PLUMBING THIRD, FOURTH, FIFTH AND SIXTH FLOOR PLANS DEMOLITION
P201	PLUMBING THIRD, FOURTH, FIFTH AND SIXTH FLOOR PLANS REMODEL
P301	PLUMBING SCHEMATICS

### LINE TYPE KEY

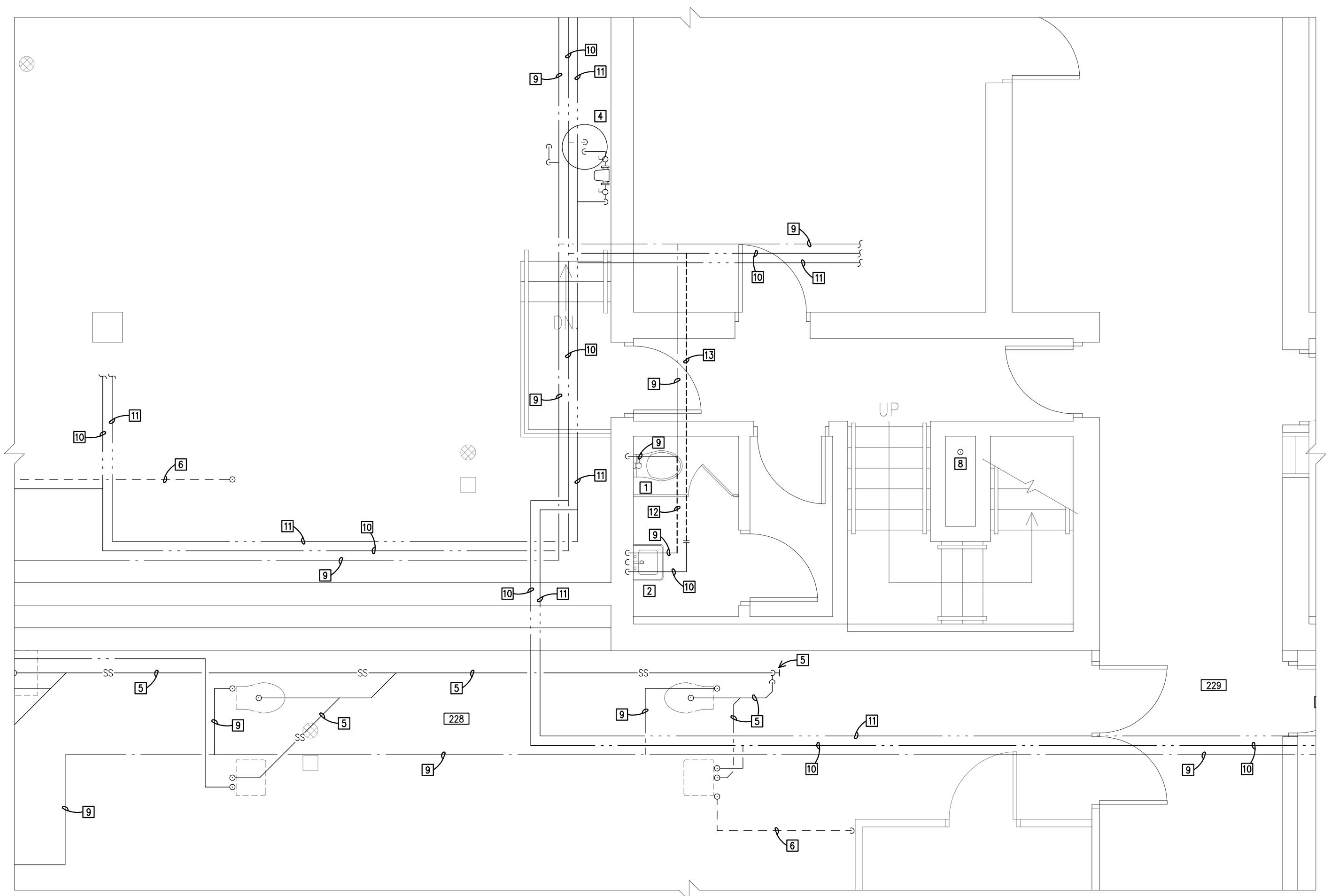
- NEW WORK BELOW IN GRADE BY PLUMBING CONTRACTOR (DARK THICK SOLID LINE)
- NEW WORK BY PLUMBING CONTRACTOR (DARK SOLID LINE)
- NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- - - EXISTING TO BE REMOVED BY PLUMBING CONTRACTOR (DARK SHORT DASHED LINE)

### CONTRACTOR ABBREVIATION KEY

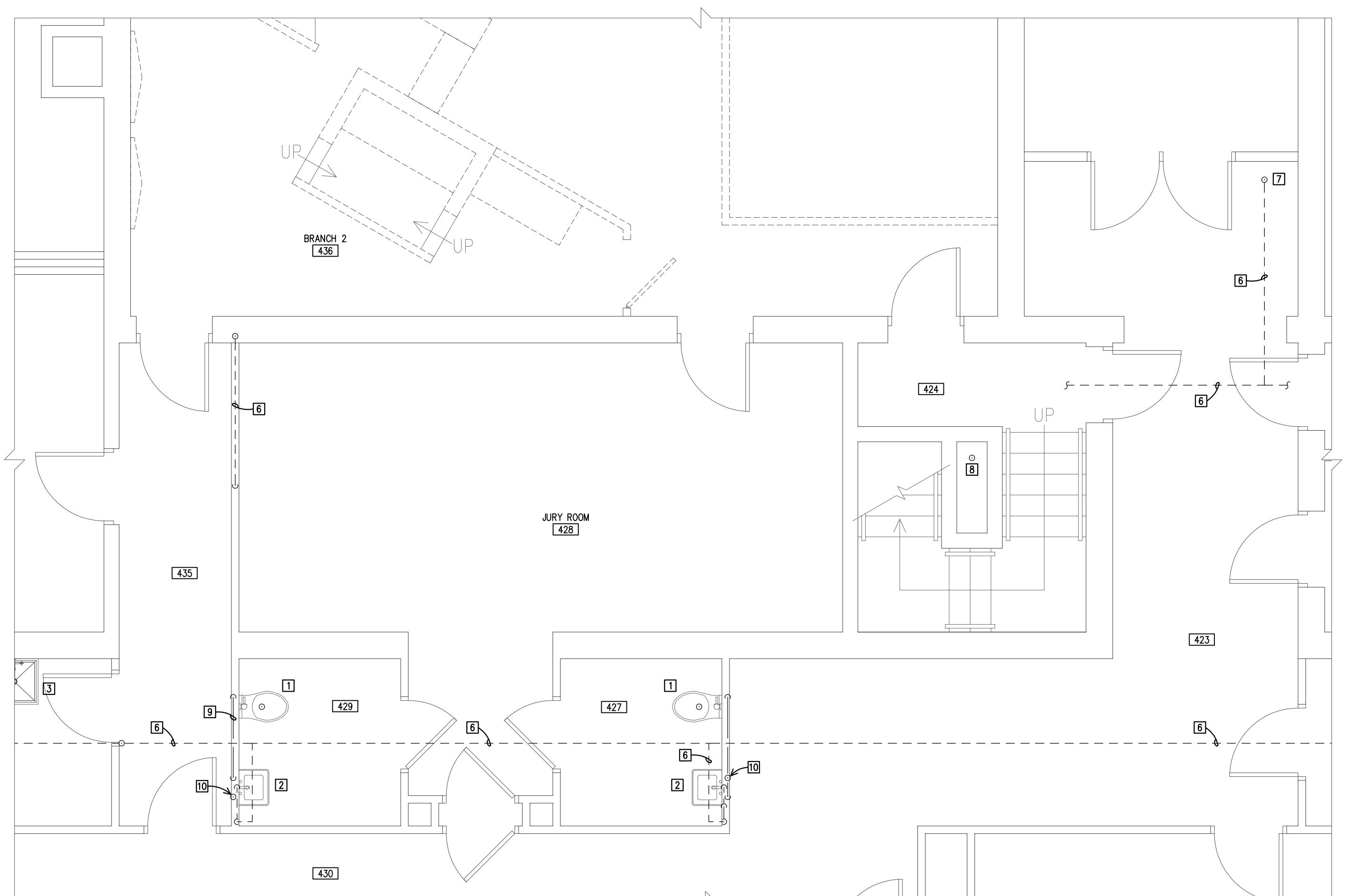
ABBR:	CONTRACTOR:
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR



OVERALL KEY PLAN



1  
P101  
THIRD AND FOURTH FLOOR PLAN  
DEMOLITION  
NORTH



2  
P101  
FIFTH AND SIXTH FLOOR PLAN  
DEMOLITION  
NORTH

**TITLE:**  
PLUMBING  
THIRD, FOURTH,  
FIFTH AND SIXTH  
FLOOR PLANS  
DEMOLITION

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

**DOCUMENT PHASE:**  
BIDDING  
DOCUMENTS

**PROJECT NO.:**  
25001

**DRAWN BY:**  
HM

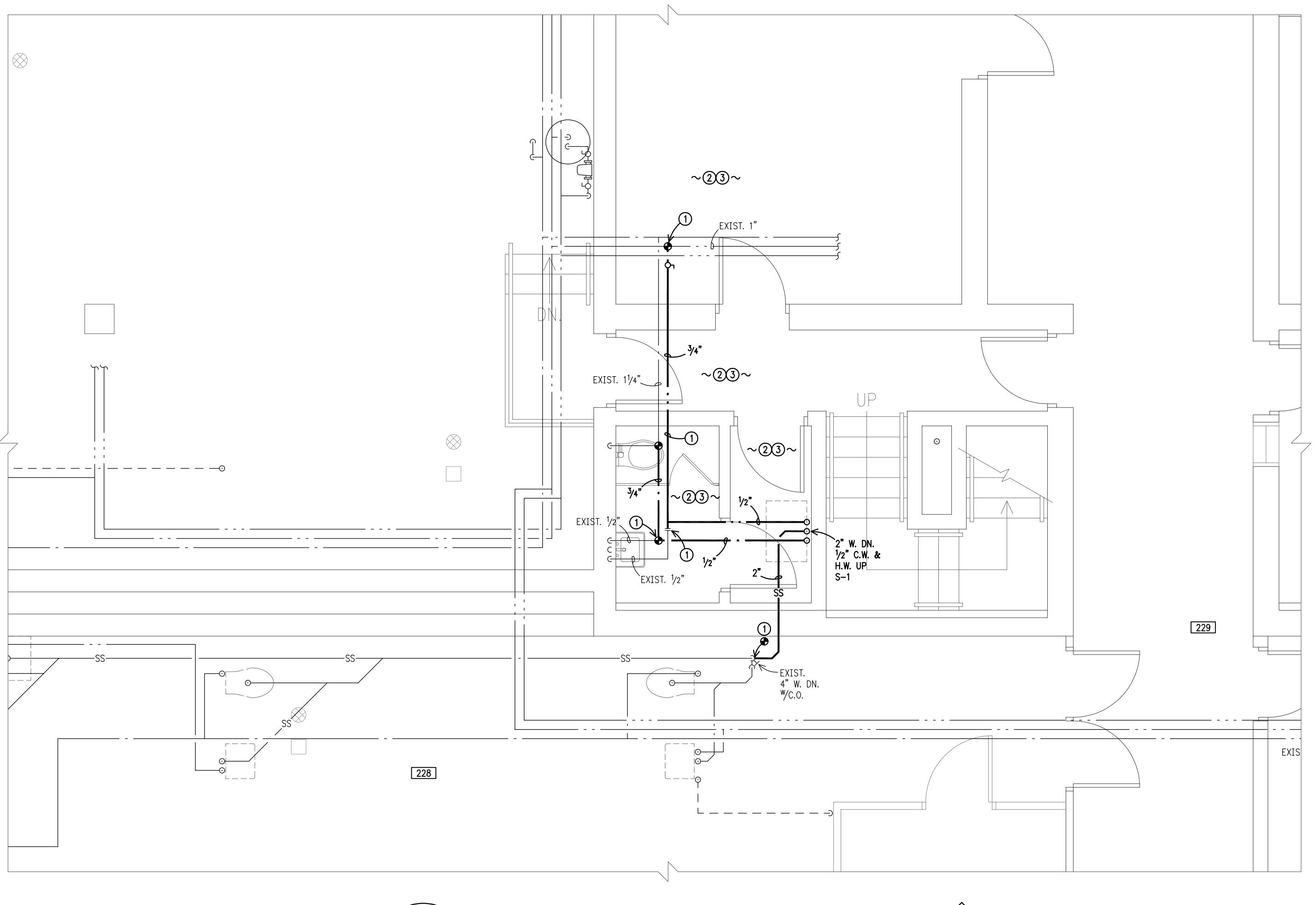
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**DATE:**  
12/18/2025

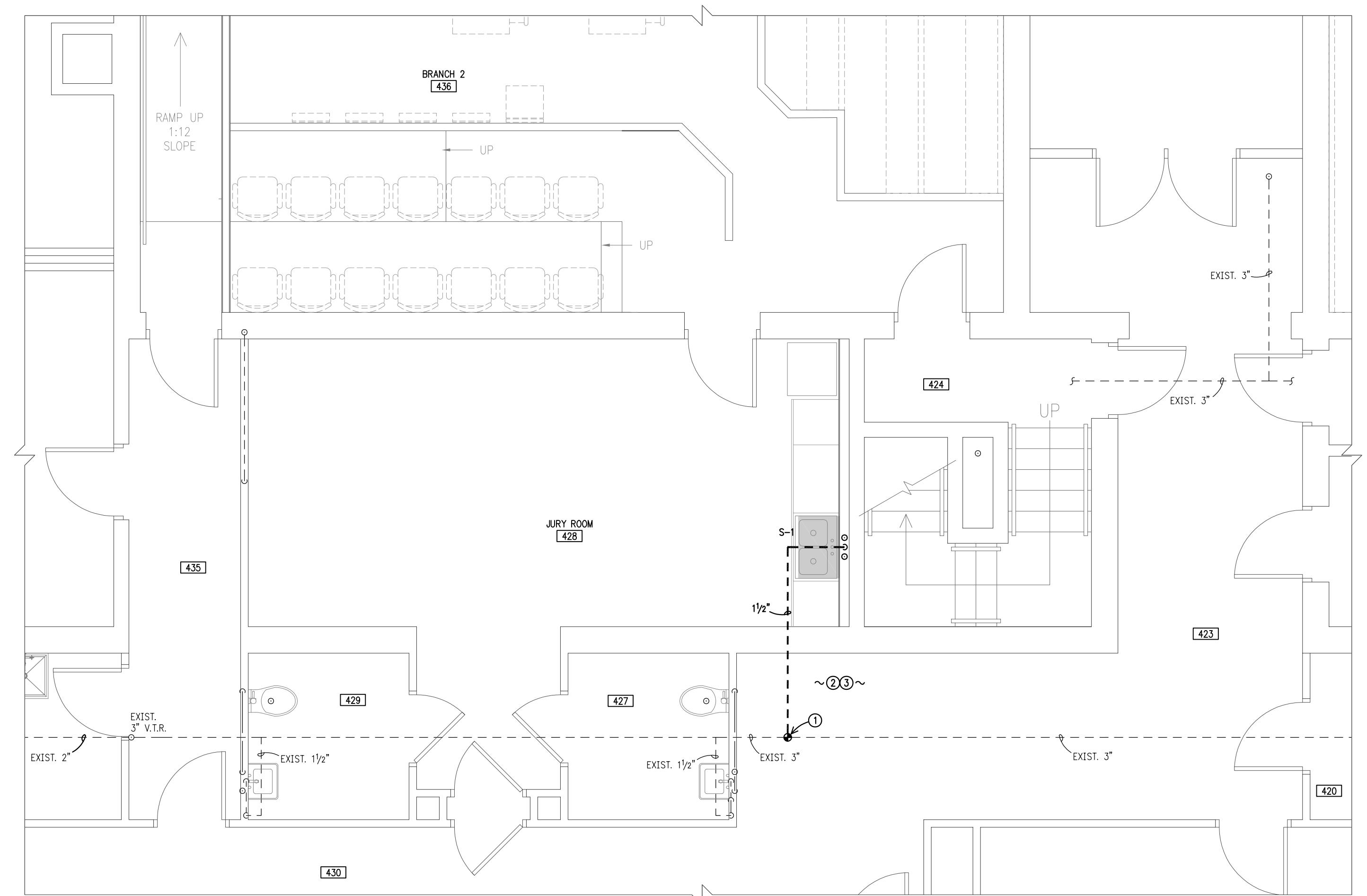
**REV.:** **DATE:** **REMARK:**

**SHEET:**

**P101**



1  
P201  
1/4"= 1'-0"  
THIRD AND FOURTH FLOOR PLAN  
REMODEL  
NORTH



2  
P201  
1/4"= 1'-0"  
FIFTH AND SIXTH FLOOR PLAN  
REMODEL  
NORTH

PLUMBING REMODEL NOTES:

1. CONNECTION POINT OF PLUMBING PIPING. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, INVERT ELEVATION, MATERIAL AND CONDITION OF PIPE BEFORE PROCEEDING WITH ANY WORK.
2. REMOVAL OF EXISTING CEILINGS FOR REQUIRED PLUMBING WORK IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. COORDINATE WORK WITH OWNER AND GENERAL CONTRACTOR.
3. COORDINATE WORK IN OCCUPIED AREAS WITH OWNER AND GENERAL CONTRACTOR, BEFORE PERFORMING ANY WORK.

TITLE:  
PLUMBING  
THIRD, FOURTH,  
FIFTH AND SIXTH  
FLOOR PLANS  
REMODEL

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

DOCUMENT PHASE:  
BIDDING  
DOCUMENTS

PROJECT NO:  
25001

DRAWN BY:  
HM

DESIGNED BY:  
HM

DATE:  
12/18/2025

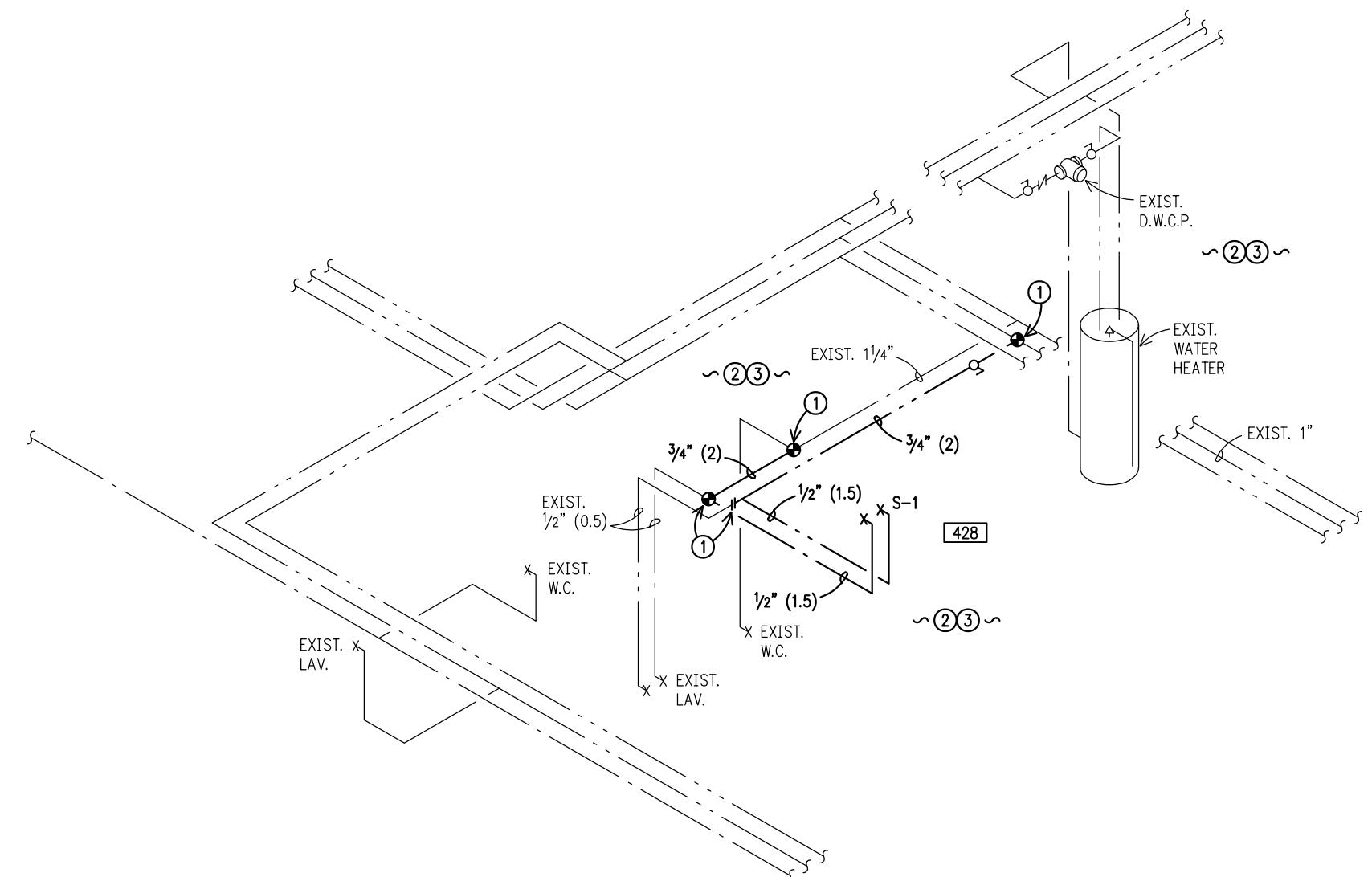
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SHEET:  
**P201**

# PLUMBING REMODEL NOTES:

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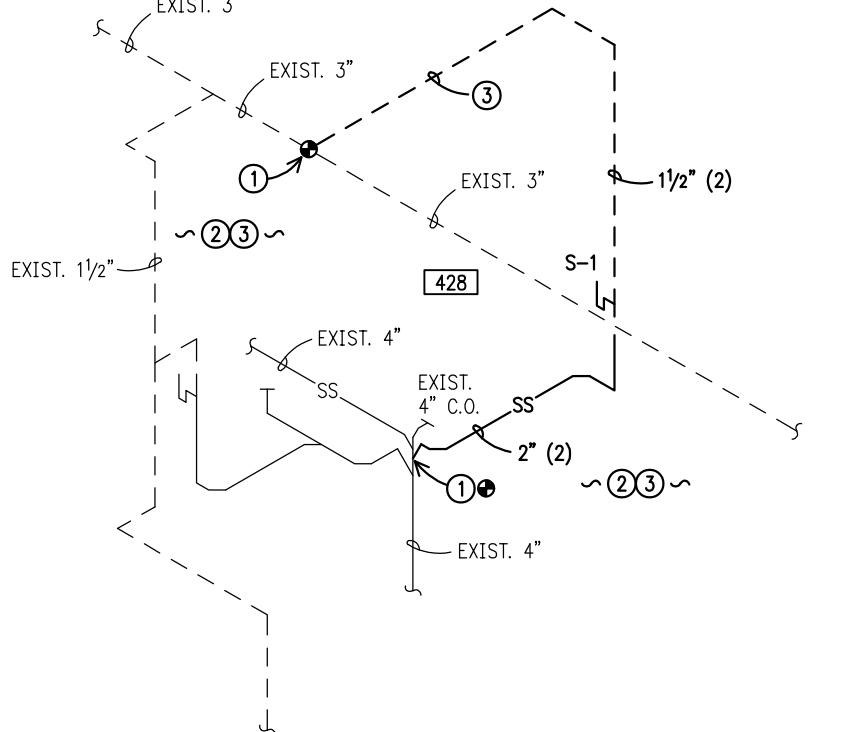
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3. COORDINATE WORK IN OCCUPIED AREAS WITH OWNER AND GENERAL CONTRACTOR, BEFORE PERFORMING ANY WORK.





# 2 WATER PIPING SCHEMATIC

P301 NO SCALE



**1 WASTE & VENT SCHEMATIC**  
**P301 NO SCALE**

LE:

DO NOT SCALE DRAWINGS  
USE FIGURED DIMENSIONS ONLY

## DOCUMENT PHASE: **BIDDING** **DOCUMENTS**

PROJECT NO: 25001

AWN BY:

HM

SIGNED BY:  
**HM**

TE:

12/16/2025

/: DATE: REMARK:

\_\_\_\_\_

SET 1: