- 1. NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS IN THIS CONTRACT.
- 2. ADDRESS QUESTIONS REGARDING DRAWINGS TO ENGINEER IN WRITING BEFORE COMMENCING WITH WORK. OTHERWISE, ENGINEER'S INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- 3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THIS CONTRACT. IT IS INTENDED THAT ALL COMPONENTS AND MATERIALS REQUIRED TO MAKE THE SYSTEMS COMPLETE, TESTED AND OPERATIONAL BE INSTALLED.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS BEFORE FABRICATION AND CONSTRUCTION.
- 5. ALL MATERIALS, EQUIPMENT AND METHODS OF INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
- 6. COMPLETELY COORDINATE WORK OF THIS CONTRACT WITH THE OPERATIONS AND THE WORK OF OTHER CONTRACTS.
- 7. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES.
- 8. MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
- 9. FIRE STOP ALL NEW AND EXISTING SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS WITH UL RATED ASSEMBLIES WITH EQUAL FIRE RATING.
- 10. PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS SHALL BE SIZED TO ALLOW THE REQUIRED ACCESS, BUT IN NO CASE LESS THAN 12"x12".
- 11. CONTRACTOR IS RESPONSIBLE FOR ALL OWNER COORDINATION AND PROCEDURES RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND RESTARTING SYSTEMS, ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH OTHER CONTRACTS.

LEGEND		<u>LEGEND - PIPING</u>	AB
- \$	SLOPE DN IN DIRECTION OF ARROW	—CW — DOMESTIC COLD WATER	
/_	BREAK	—HW— DOMESTIC HOT WATER	
	TEE RISE	HWR— DOMESTIC HOT WATER RECIRCULATED	
	TEE DROP	— D — DRAIN	
0	PIPE RISE	—LPG— PROPANE	
C	PIPE DROP	—SAN— SANITARY	
	PIPE ABOVE SLAB OR GRADE	——V—— SANITARY VENT	
	PIPE BELOW SLAB OR GRADE		
-	DIRECTION OF FLOW		
Г	CAP		
=	UNION		
\triangleleft	CONCENTRIC REDUCER		
	PRESSURE GAUGE		
	THERMOMETER		
	STRAINER W/ BLOWDOWN VALVE		
	SWING CHECK VALVE		
	BALL VALVE		
\triangleright	GATE VALVE		
J	TRIPLE DUTY VALVE		
\otimes	BALANCE VALVE		
	BALL VALVE W/ HOSE CONNECTION, CAP AND CHAIN		
	PRESSURE REDUCING VALVE		
遠	SAFETY RELIEF VALVE		
T	TEMPERATURE SENSOR		
	PUMP		
	LPG REGULATOR		
141	PLUG VALVE		
	FLOOR DRAIN		
Т	NON-FREEZE WALL HYDRANT		
<u> </u>	CLEANOUT		
	DECK PLATE CLEANOUT		

/// PIPING/EQUIPMENT TO BE REMOVED

CONNECTION POINT TO EXISTING

LIMIT OF REMOVAL

FIXTURE NO.	FIXTURE TYPE	HW	CW	SAN	VENT
P-1	WATER CLOSET (FLOOR, ADA)	-	1/2"	3"	1-1/2
P-2	LAVATORY (WALL, ADA)	1/2"	1/2"	1-1/4"	1-1/4
P-3	COUNTERTOP SINK (MOLDED SINK TOP PROVIDED BY CONTRACT 1A)	1/2"	1/2"	1-1/4"	1-1/4
P-4	DRINKING FOUNTAIN	-	1/2"	1-1/2"	1-1/4
P-5	SECURITY COMBINATION WC/LAV.	1/2"	1"	3"	1-1/2

- 2. FLOOR FLOOR MOUNT
- 3. WALL WALL MOUNT (PROVIDE CARRIER BY JOSAM, OR EQUAL)

	HOT WATER HEATER (HWH) SCHEDULE									
TAG	AREA SERVED	STORAGE (GAL)	FUEL	TEMP RISE (°F)	RECOVERY (GPH)	SUPPLY TEMP (°F)	ELECTRIC (VOLT/PH/HZ)	BASIS OF DESIGN		
HWH-1	DHW SYSTEM	50	ELECTRIC	90	56	140	208/3/60	AO SMITH DVE-52-12.3		

AMERICAN DISABILITIES ACT

ABOVE FINISHED FLOOR

BRITISH THERMAL UNIT

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DECK PLATE CLEANOUT

EXPANSION TANK

FLOOR DRAIN

EXISTING

GAUGE

GALLON

GALVANIZED

HOT WATER

INVERT

LAVATORY

MAXIMUM

MINIMUM

SANITARY

SCHEDULE

TYPICAL

STAINLESS STEEL

TOP & BOTTOM

VENT THRU ROOF

WALL PLATE CLEANOUT

WATER CLOSET WALL HYDRANT

1,000 BTU/HR

DRAIN, WASTE AND VENT

ELECTRICAL CONTRACTOR

FEET OF WATER COLUMN

GENERAL CONTRACTOR

GALLONS PER FLUSH

GALLONS PER HOUR

GALLONS PER MINUTE

HOT WATER RECIRCULATED

INCHES OF WATER COLUMN

MECHANICAL CONTRACTOR

EXTERNAL STATIC PRESSURE

AIR HANDLING UNIT

CAST IRON

CLEANOUT

CONCRETE

DIAMETER

COLD WATER

CO

CW

CONC

DCW

DHW

DIA

DN

DWV

ESP

ET

EX

FD

FLR

GAL

GPF

HWR

LAV

MAX

MBH

SAN

SCH

T&B

TYP

WC

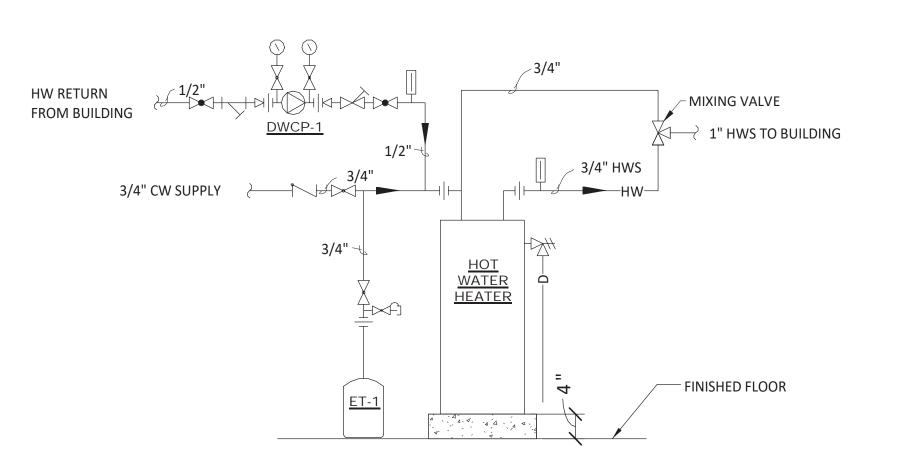
- 1. PROVIDE COMPLETE WITH ASME SAFTEY RELIEF VALVE AND DRAIN VALVE.
- 2. INSTALL HOT WATER HEATER IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
- 3. FURNISH AND INSTALL UNIT AND ALL CONTROL EQUIPMENT, INCLUDING SENSORS, CONTROL WIRING AND CONDUIT.

PUMP SCHEDULE										
IAG I	EQUIPMENT	NT MOTOR			PUMP	FLOW	HEAD	TYPE	BASIS OF DESIGN	
	SERVED	WATTS	VOLTS	PHASE	RPM	(GPM)	(FT WC)	TTPE	DASIS OF DESIGN	
DWCP-1	HWH-1	4-60	115	1	2253	2	12	INLINE	BELL AND GOSSET ECOCIRC 19-16	

- 1. FURNISH AND INSTALL DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION, TIMER AND AQUASTAT. UNIT SHALL BE
- FURNISHED WITH A PLUG-IN TYPE CORD AND BUILT-IN IMPEDIANCE PROTECTION.
- 2. UNIT SHALL BE BRONZE CONSTRUCTION SUTIABLE FOR POTABLE WATER.
- 3. FURNISH AND INSTALL UNIT AND ALL CONTROL EQUIPMENT, INCLUDING SENSORS, LOW VOLTAGE WIRING AND CONDUIT. LINE
- VOLTAGE POWER WIRING (120V AND ABOVE) SHALL BE BY THE ELECTRICAL CONTRACTOR.

EXPANSION TANK (ET) SCHEDULE									
TAG	CONN. SIZE (IN)	SYSTEM	TANK TYPE	TANK VOLUME (GAL)	TANK ACCEPTANCE (GAL)	ORIENTATION	BASIS OF DESIGN		
ET-1	3/4	HW	BLADDER	5.0	3.3	VERTICAL, FLOOR MOUNTED	BELL &GOSSET PTA-12		

- 1. TANK SHALL BE STEEL CONSTRUCTION WITH HEAVY DUTY BUTYL RUBBER DIAPHRAGM & FORGED STEEL CONNECTION FITTINGS.
- 2. EXPANSION TANK TO BE DESIGNED, CONSTRUCTED AND STAMPED PER ASME SECTION VII, DIVISION 1.
- 3. TANK SHALL BE RATED FOR MAXIMUM WORKING PRESSURE OF 125 PSIG AND MAXIMUM WORKING TEMPERATURE OF 240°F.





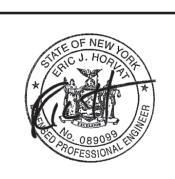
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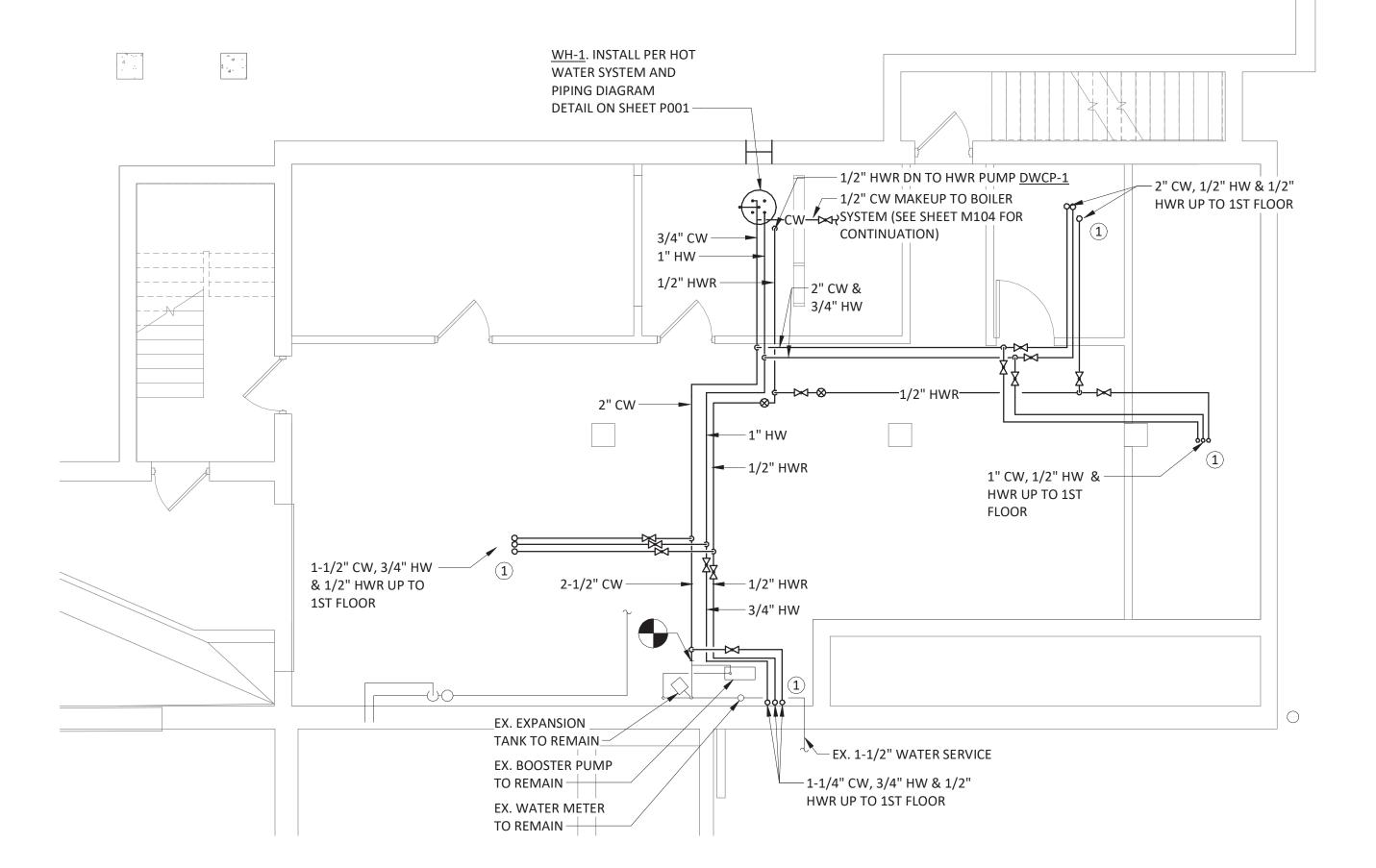
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Sheet Number P001

1753.008.001

Project Number



BASEMENT PLUMBING PIPING DEMO PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

1. FIELD VERIFY LOCATIONS AND SIZES OF EX. WATER LINES.

BASEMENT PLUMBING PIPING PLAN

SCALE: 3/16" = 1'-0"

KEY NOTES:

1 CORE DRILL FLOOR SLAB ABOVE AS REQUIRED TO ACCOMODATE NEW PIPE RISERS AND FIRE CAULK PENETRATIONS.

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PLUMBING PLAN

BASEMENT

CITY OF MIDDLETOWN NEW COURTHOUSE FACILITY TRACT NO. 1C - PLUMBING CONSTRUCTION

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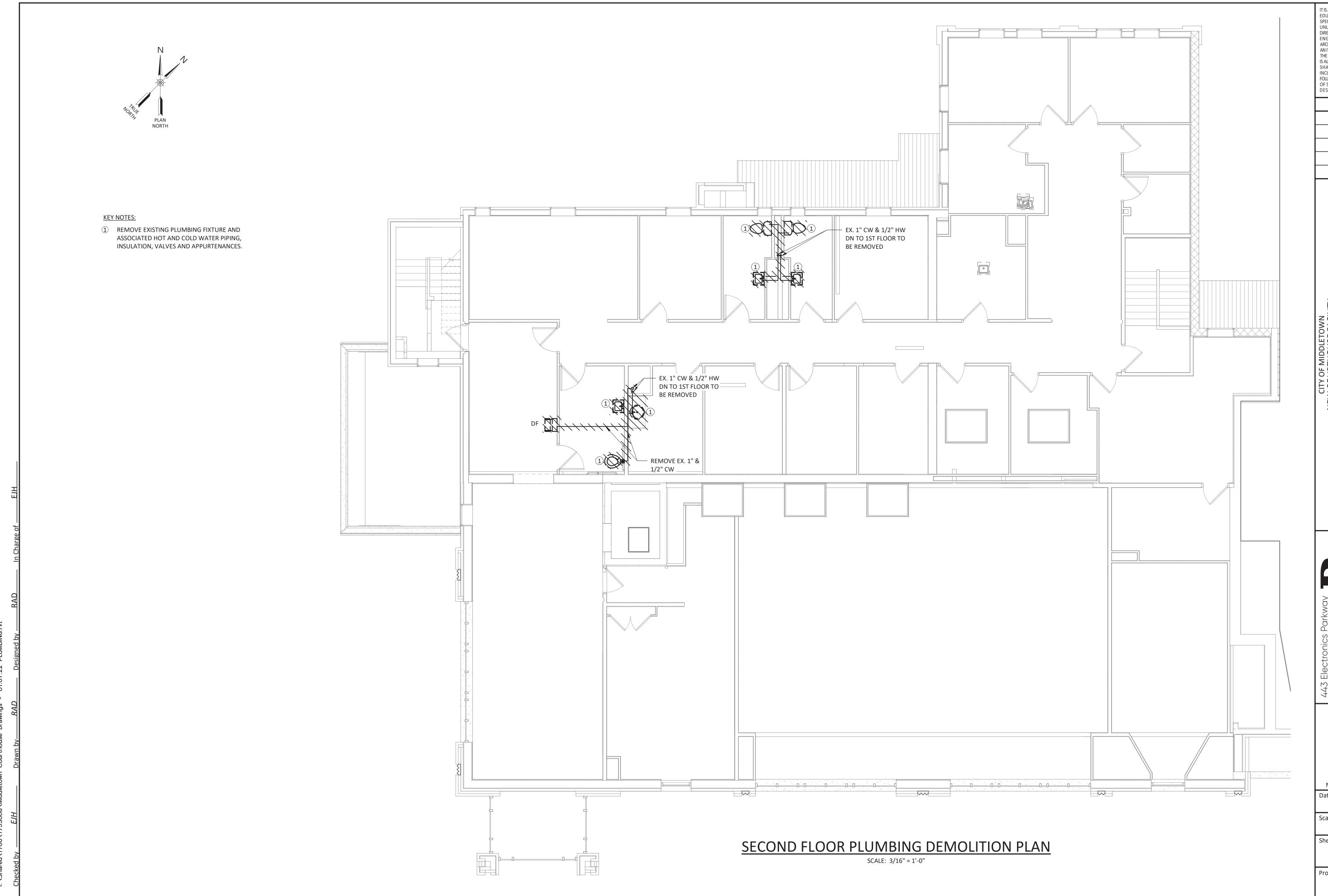


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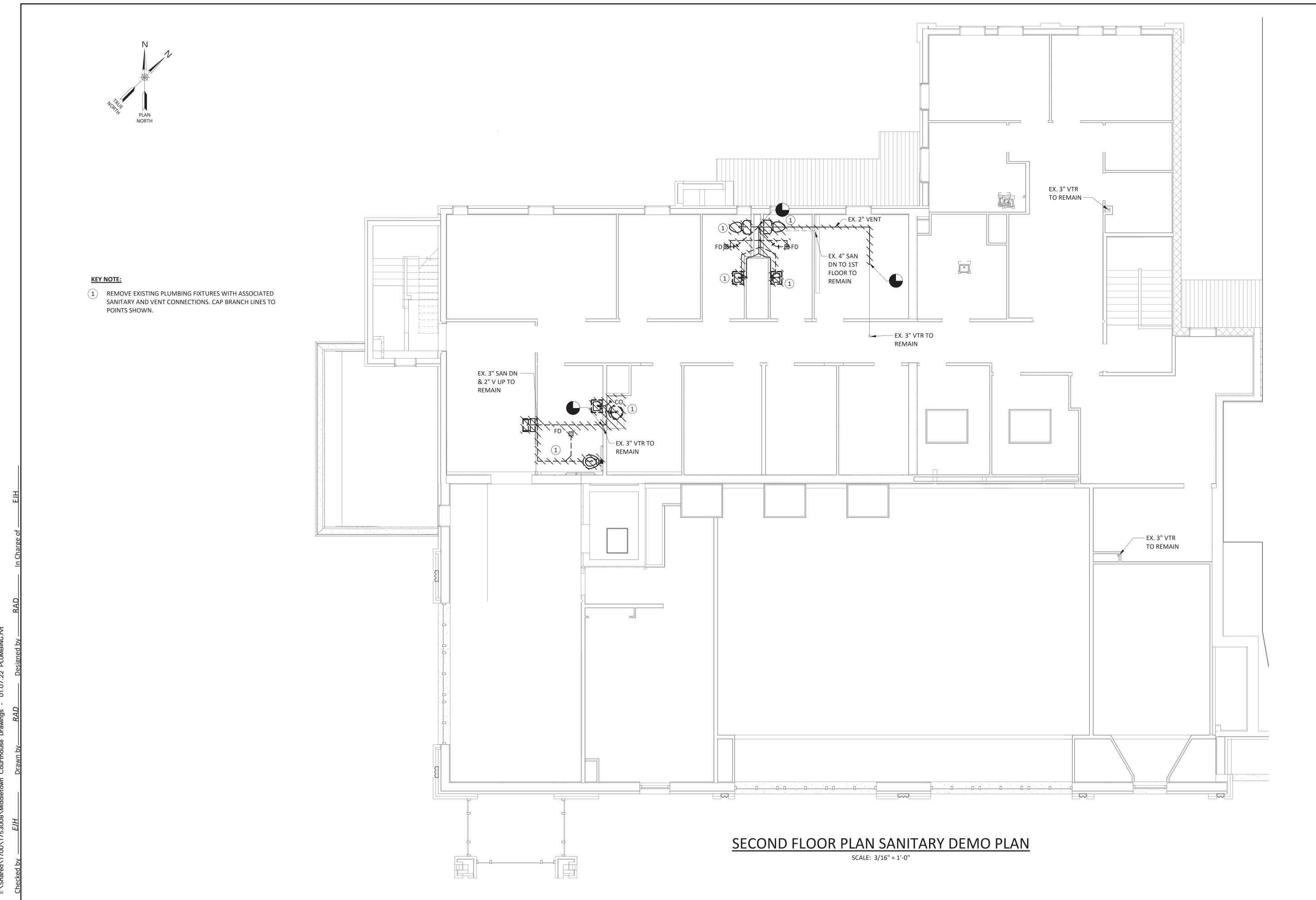
FLOOR PLUMBING SECOND



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P104



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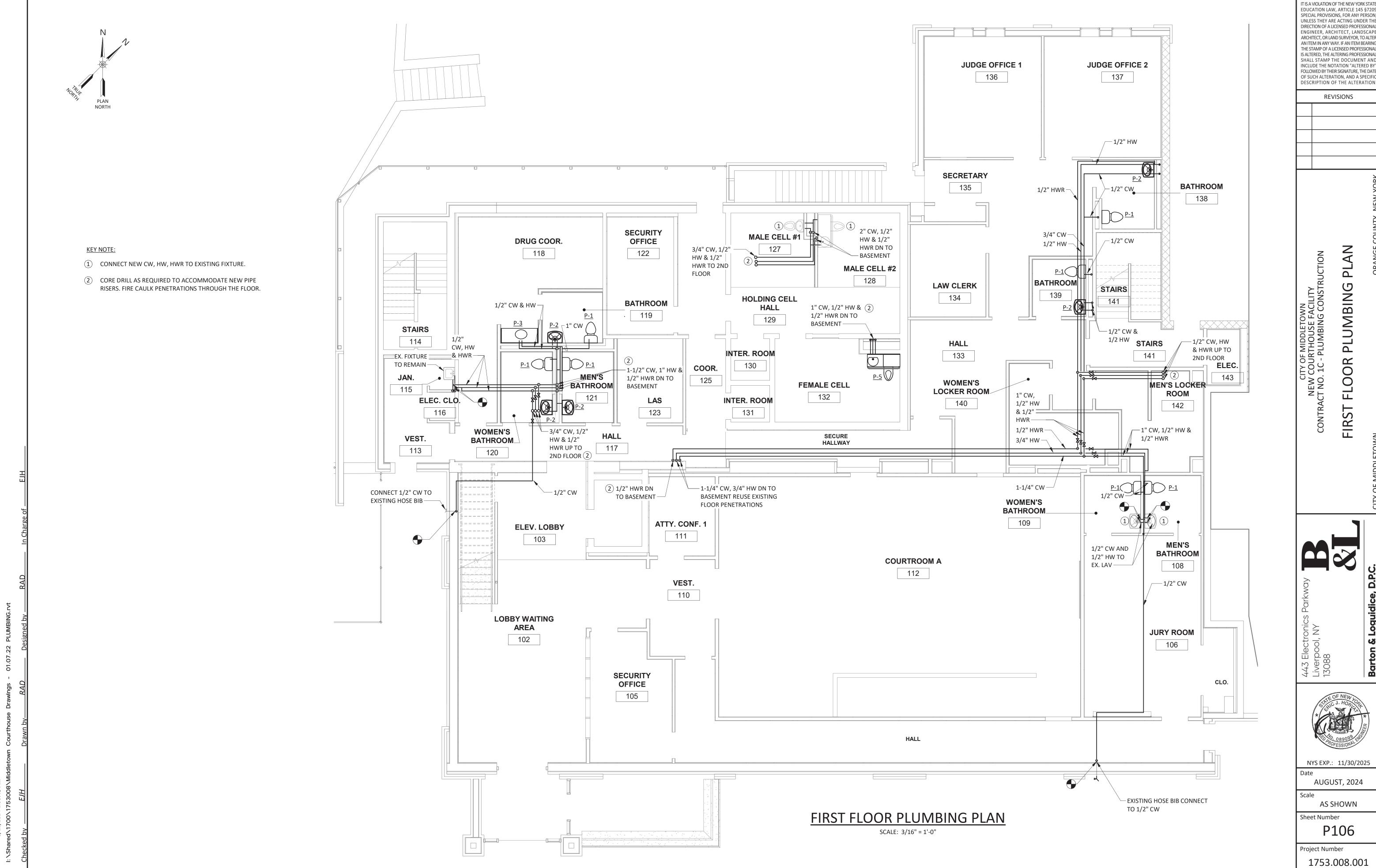
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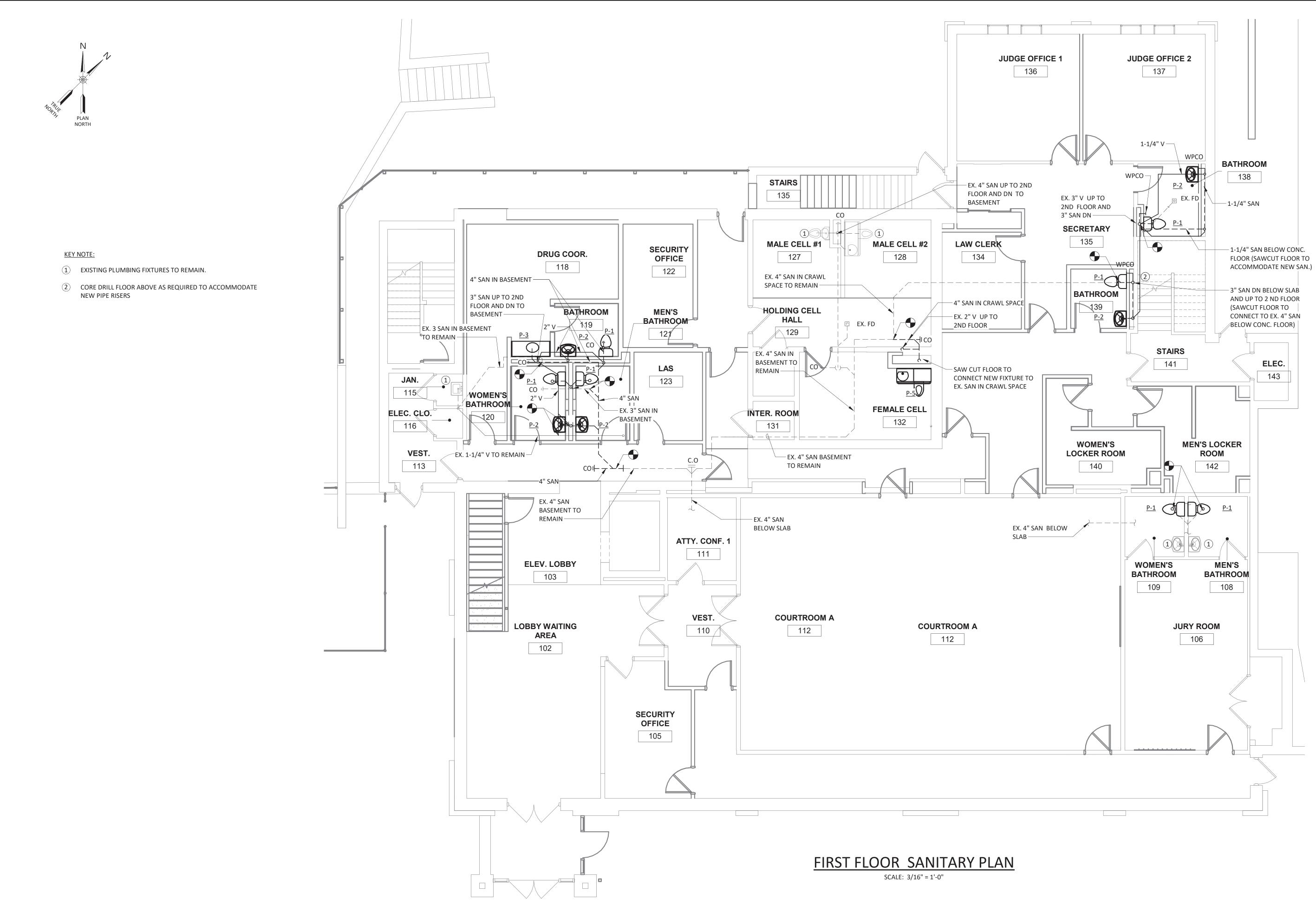
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CONTRACT NO.



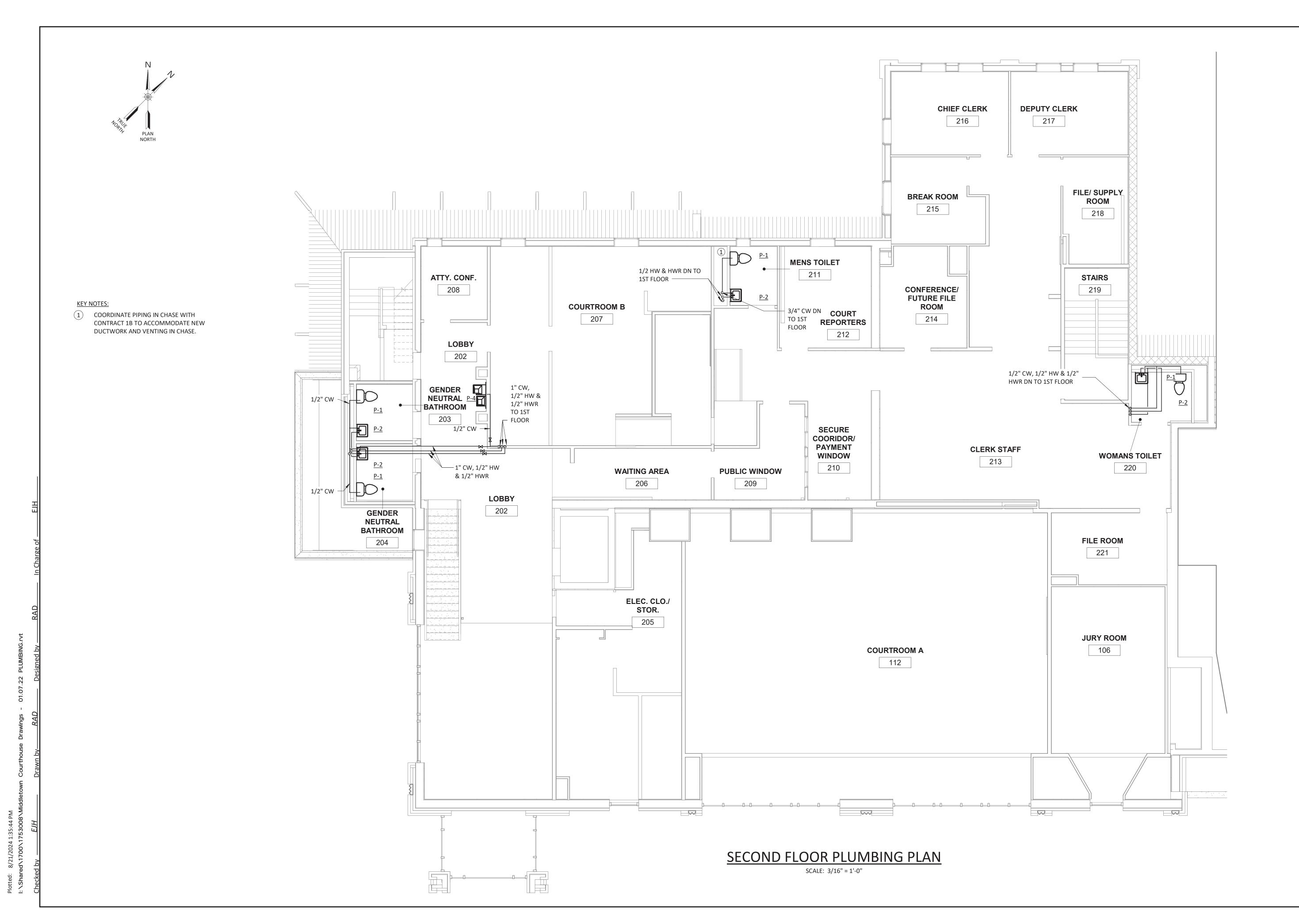
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P107



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PLAN CITY OF MIDDLETOWN NEW COURTHOUSE FACILITY CONTRACT NO. 1C - PLUMBING CONSTRUCTION PLUMBING

FLOOR SECOND



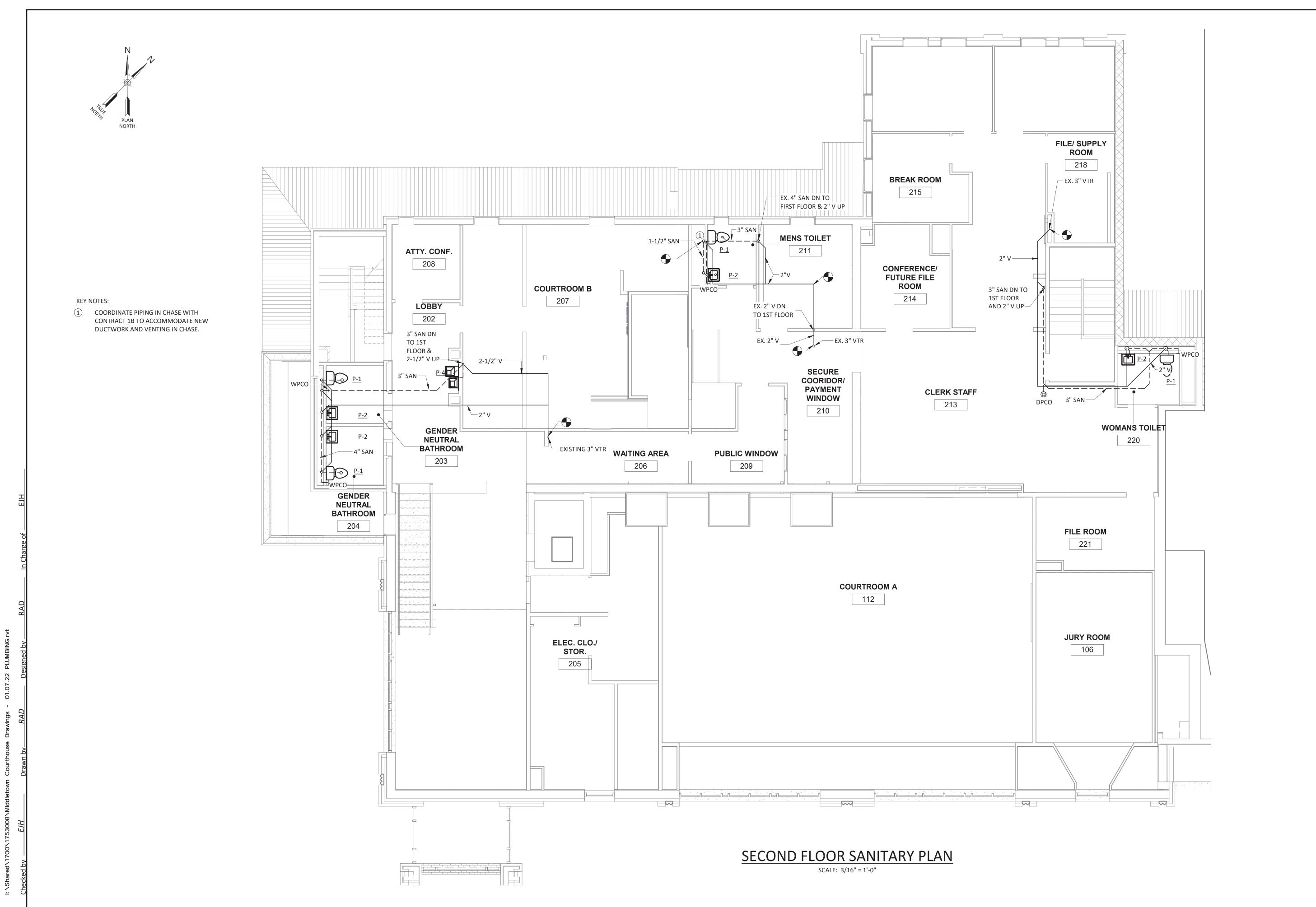
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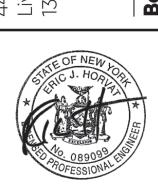
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CITY OF MIDDLETOWN NEW COURTHOUSE FACILITY CONTRACT NO. 1C - PLUMBING CONSTRUCTION FLOOR SECOND



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