MECHANICAL EQUIPMENT TO BE INSTALLED UNLESS OTHERWISE NOTED 36. COORDINATE CAPPING OF EXISTING PIPING WITH OTHER TRADES SO THAT CAPPING DOES NOT CONFLICT WITH PROPER INSTALLATION AND FUNCTION OF THE COMPLETED SCOPE OF THE NEW WORK CONNECTED FUNCTIONING BRANCH SHALL BE CONSIDERED A DEAD END

PLUMBING GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE COMPLIMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL IN THE CASE OF CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY OF WORK
- BE RESPONSIBLE FOR ALL PERMITS, FEES, AND COSTS ASSOCIATED WITH THE INSTALLATION OF PLUMBING WORK
- MAKE A COMPLETE REVIEW OF THE PLUMBING PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE PLUMBING SYSTEM, AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER
- 4. VISIT THE PROJECT SITE PRIOR TO BIDDING AND BE FAMILIAR WITH THE EXISTING CONDITIONS
- REFER TO THE ARCHITECTURAL PLANS FOR ALL FLOOR PLAN DIMENSIONS DO NOT SCALE THESE PLANS
- ENSURE THAT ITEMS TO BE FURNISHED UNDER THIS CONTRACT WILL FIT THE SPACE AVAILABLE MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SERVICE CLEARANCE REQUIREMENTS, AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS
- COORDINATE WITH ALL PRIME AND/OR SUBCONTRACTORS THE INSTALLATION OF FIXTURES AND EQUIPMENT UNDER THIS CONTRACT, PRIOR TO THE INSTALLATION, IN ORDER TO AVOID CONFLICT WITH OTHER TRADES - IF AN ALTERNATE METHOD OF INSTALLATION IS REQUIRED, IT SHALL BE COORDINATED WITH THE ENGINEER OR ARCHITECT PRIOR TO START OF WORK
- PROVIDE AND INSTALL ALL PLUMBING SUPPORT DEVICES ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER PRIME CONTRACTORS AND/OR SUBCONTRACTORS PRIOR TO INSTALLATION
- PROVIDE ALL OPENINGS IN WALLS AND FLOORS UNLESS NOTED OTHERWISE VERIFY LOCATION AND SIZE OF ALL OPENINGS REQUIRED UNDER THIS CONTRACT WITH THE GENERAL CONTRACTOR
- PROVIDE ALL ACCESS DOORS AS REQUIRED FOR CODE COMPLIANCE AND TO ACCESS ANY INSTALLATION THAT WILL REQUIRE FUTURE MAINTENANCE - THESE DOORS SHALL BE 20" x 20" UNLESS NOTED OTHERWISE - EACH ROOM WITH A DRYWALL CEILING SHALL HAVE A MINIMUM OF ONE ACCESS DOOR PROVIDED BY THE PLUMBING CONTRACTOR - THE DRYWALL SUBCONTRACTOR SHALL PROVIDE THE REQUIRED FRAMED OPENING AND INSTALL THE ACCESS DOORS
- 11. SEAL ALL PENETRATIONS OF FIRE RATED WALLS USING THE UL METHODS DETAILED IN THESE DRAWINGS
- 12. INSTALL INSULATED WATER PIPING IN EXTERIOR WALLS ON THE INTERIOR SIDE OF THE WALL INSULATION SEE SPECIFICATIONS FOR SIZE
- 13. THE USE OF FLEXIBLE RUBBER COUPLINGS IS PROHIBITED REFER TO PROJECT SPECIFICATIONS FOR ACCEPTABLE TYPE 304 STAINLESS
- 14. INSTALL FLOOR DRAIN STRAINERS AND CLEANOUT TOPS FLUSH WITH THE FINISHED FLOOR ELEVATION A RAISED OR LOWERED STRAINER OR CLEANOUT TOP WILL NOT BE ACCEPTABLE
- 15. INSTALL ALL THREADED CLEANOUT PLUGS WITH PIPE DOPE TO ALLOW FOR EASY REMOVAL IN THE FUTURE
- 16. PLUMBING FIXTURES SHALL BE NEATLY CAULKED WITH SILICONE CAULKING COMPOUND WHERE THE FIXTURE MEETS THE WALL, COUNTERTOP, OR FLOOR UNLESS OTHERWISE NOTED
- 17. PROVIDE CHROME ESCUTCHEON RINGS AT CEILING AND WALL PIPE PENETRATIONS AT ALL EXPOSED TO VIEW PIPING
- 18. WHERE VALVES ON WATER LINES ARE LOCATED ABOVE CEILING, LOCATE THEM 8" ABOVE CEILING
- 19. IN ADDITION TO THE LOCATIONS REQUIRED IN THESE DRAWINGS, LEAD-FREE, TWO-PIECE, FULL-PORT BRONZE BALL VALVES/SHUTOFFS SHALL BE PROVIDED AS REQUIRED BY THE LATEST CURRENT VERSION OF THE NC PLUMBING CODE SECTION 606
- 20. PROVIDE SHUTOFF VALVE IN ALL BRANCH PIPING THAT SERVES MORE THAN ONE FIXTURE.
- 21. COORDINATE EXACT FLOOR DRAIN LOCATIONS IN THE MECHANICAL ROOMS WITH THE MECHANICAL CONTRACTOR FOR THE TYPE OF
- INSTALL HANGER RODS BEFORE GYPSUM BOARD CEILINGS ARE INSTALLED AND COMPLETE PIPING INSTALLATION AFTER THE CEILING HAS
- 23. THE FLASHING AND COUNTER-FLASHING FOR ALL VENTS THROUGH THE ROOF SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR - THE PLUMBING CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF THE VENTS THROUGH THE ROOF WITH THE ROOFING SUB-CONTRACTOR - ALL VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10'-0" FROM ALL MECHANICAL FRESH AIR INTAKE GRILL OR DUCT OPENING OR A MINIMUM OF 2'-0" ABOVE THE TOP OF SUCH OPENINGS -
- 24. EACH ABOVE GROUND SECTION OF GAS PIPING SHALL BE ELECTRICALLY BONDED PER NC FUEL GAS CODE SECTION 310
- PROVIDE FINAL CONNECTIONS AND ALL NECESSARY PIPE AND FITTINGS TO ALL KITCHEN EQUIPMENT THAT REQUIRES WASTE AND WATER
- 26. PROVIDE FINAL CONNECTIONS AND ALL NECESSARY PIPE AND FITTINGS TO ALL GAS FIRED EQUIPMENT UNLESS NOTED OTHERWISE
- PROVIDE ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT REFER TO THE ELECTRICAL PLANS FOR LOCATIONS OF JUNCTION BOXES, DISCONNECTS, PANELS, AND CIRCUIT BREAKERS - TYPE, SIZE, AND NUMBER OF CONDUCTORS AND CONDUITS TO EQUIPMENT SHALL BE EQUAL TO THE CONDUCTORS AND CONDUITS PROVIDED BY THE ELECTRICAL CONTRACTOR TO THE JUNCTION BOXES AND DISCONNECT SWITCHES - CONNECTIONS SHALL CONFORM TO THE LATEST CURRENT VERSION OF THE NATIONAL ELECTRICAL CODE REGULATIONS
- 28. ALL MOTOR STARTERS, SWITCHES, CONTROL DEVICES, ETC. SHALL BE RECESSED IN THE WALLS, EXCEPT WHERE THESE ITEMS ARE LOCATED IN THE MECHANICAL ROOMS
- 29. PROVIDE NAMEPLATES FOR ALL EQUIPMENT, SWITCHES, CONTROL DEVICES, ETC.

IN PREPARATION FOR GENERAL CONTRACTOR TO PLACE CONCRETE PATCHING

- 30. WATER HEATER INSTALLATIONS SHALL COMPLY WITH THE LATEST CURRENT VERSION OF THE NATIONAL ELECTRICAL CODE
- 31. FIELD LOCATE ALL UNDERGROUND UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS PRIOR TO THE START OF WORK -AVOID CONFLICTING WITH THESE UTILITIES DURING THE INSTALLATION OF THE WORK AND REPAIR ANY DAMAGE TO THESE UTILITIES AT NO ADDITIONAL COSTS TO THE PROJECT
- 32. EXISTING PIPING LOCATIONS AND CONNECTIONS HAVE BEEN PRODUCED FROM BEST AVAILABLE INFORMATION VERIFY THESE LOCATIONS IN THE FIELD - SHOULD A DIFFERENT METHOD OF PIPING BE REQUIRED THAN THAT SHOWN ON THESE PLANS, NOTIFY ENGINEER AND COORDINATE WITH ENGINEER THE PROPOSED CONFIGURATION
- COORDINATE ALL SHUT-DOWN TIMES OF THE EXISTING WATER AND WASTE PIPING WITH THE OWNER PRIOR TO THE INSTALLATION OF ANY
- 34. PROVIDE THE CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, CEILINGS, AND ROOFING WHERE NEW FIXTURES ARE ADDED OR EXISTING FIXTURES ARE REMOVED - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES
- ALL EXISTING SOIL, WASTE, STORM, WATER, AND GAS PIPING THAT IS TO BE REMOVED SHALL BE REMOVED AS FAR AS POSSIBLE WITHIN THE SCOPE OF THE PROJECT - WHERE REQUIRED, REMAINING EXISTING PIPING SHALL BE CAPPED WATER AND GAS TIGHT AT ACTIVE
- MAINS BELOW THE SLAB, FLOOR, OR GRADE, OR WITHIN THE WALLS OR CEILING UNLESS NOTED OTHERWISE
- 37. EXISTING SOIL, WASTE, STORM OR VENT PIPING THAT IS TO BE REMOVED SHALL BE REMOVED SUCH THAT DEAD ENDS ARE NOT CREATED - ANY PORTION OF CAPPED SOIL, WASTE, STORM OR VENT PIPING AT A DEVELOPED LENGTH OF 2' OR MORE FROM A MAIN OR
- 38. WHERE PIPING IS TO BE INSTALLED BENEATH EXISTING CONCRETE SLAB ON GRADE FLOORS, SAW CUT THE FLOOR TO 1/2" DEEP BEFORE BREAKAGE TO AVOID IRREGULAR CUT LINES, EXCAVATE EARTH MATERIALS, INSTALL PIPING, BACKFILL, AND COMPACT BACKFILL MATERIAL
- 39. WHERE PIPING CONTAINING GAS IS TO BE REMOVED, OBSERVE PROCEDURE OF NCFGC 406.7.1, NFPA 54 7.2.7 AND 8.3.1 AND NFPA 56(PS) -DISCONNECT THE GAS PIPING FROM THE GAS SOURCE, VENT TO THE OUTDOORS, AND THOROUGHLY PURGE WITH AIR, WATER, OR INERT GAS BEFORE CUTTING OR WELDING
- 40. ANY ITEM REMOVED FROM THE BUILDING DURING DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL - CARE SHALL BE TAKEN IN THE REMOVAL OF ITEMS TO MINIMIZE DAMAGE - ANY ITEM NOT WANTED
- BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES 41. ALL MATERIALS IN PLENUM SPACES MUST BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A
- SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84E 42. ALL PLUMBING SYSTEMS SHALL BE INSTALLED IN SUCH A MANNER AS TO COMPLETELY PREVENT THE POSSIBILITY OF CROSS
- CONNECTIONS BETWEEN SAFE AND UNSAFE SUPPLIES OR BACK SIPHONAGE.
- 43. PROVIDE TRAP PRIMER VALVES AS NOTED IN FIXTURE SCHEDULE AND AS NOTED ON PLANS TRAP PRIMERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS - TRAP PRIMER VALVE SHALL BE INSTALLED ON A MINIMUM OF 1/2" SIZE COLD WATER PIPE AND SHALL BE LOCATED AT NEAREST FIXTURE TO DEVICE TO BE PRIMED AND IN A SERVICEABLE LOCATION - TRAP PRIMERS SHALL BE ELIMINATED WHERE BOTH HOSE BIBBS/HYDRANTS ARE PROVIDED AND FLOORS ARE NON-ABSORBENT.
- 44. WATER HAMMER ARRESTORS SHALL BE OF ALL STAINLESS STEEL CONSTRUCTION AND IN CONFORMANCE WITH P. D. I. STANDARD WH201 BY ZURN, J. R. SMITH, OR WADE. PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P-1 AND ACCESSIBLE FOR FUTURE REPLACEMENT - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.

SYMBOL	DESCRIPTION
	WASTE PIPING
	VENT PIPING
os	WASTE PIPING TO OIL SEPARATOR
	CONDENSATE DRAIN PIPING
	COLD WATER PIPING
	110°F HOT WATER PIPING
	110°F HOT WATER RETURN PIPING
	NATURAL GAS PIPING AT 2 PSI (MEDIUM) PRESSURE
RDL	ROOF DRAIN PIPING OVERHEAD
RD	ROOF DRAIN PIPING UNDER FLOOR OR BELOW GRADE
OFDL	OVERFLOW ROOF DRAIN PIPING OVERHEAD
<u></u>	BALL VALVE
	GLOBE VALVE
	CHECK VALVE
——×——	GAS COCK
	ELECTRIC SOLENOID VALVE
	UNION
—·———·—	BUTTERFLY VALVE
	THERMOSTATIC BALANCING VALVE
•	HYDRANT DIDE TURNS UR
0	PIPE TURNS UP PIPE TURNS DOWN
	FIFE TURNS DOWN
 0	CLEANOUT AT WALL OR IN CEILING
O	CLEANOUT AT FINISHED FLOOR/FINISHED GRADE
₹ ^A	WATER HAMMER ARRESTOR WITH PDI SIZE (REFER TO WATER HAMMER SCHEDULE)
$oldsymbol{\Theta}$	POINT OF CONNECTION
	ENDPOINT OF DEMOLITION
VTR	VENT THROUGH ROOF
FFE	FINISH FLOOR ELEVATION
BFF	BELOW FINISH FLOOR
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
INV	INVERT OF PIPING
VIF	VERIFY IN FIELD
 વ	CENTERLINE
ROW	RIGHT OF WAY
(E)	EXISTING NEW
(N) ST STL	STAINLESS STEEL
UON / UNO	UNLESS OTHERWISE NOTED / UNLESS NOTED OTHERWISE

WASTE DEMAND IN FU'S	COLD WATER DEMAND IN FU'S	COLD WATER DEMAND IN GPM	HOT WATER DEMAND IN FU'S	HOT WATER DEMAND IN GPM	TOTAL NAT DEMAND IN
174	362	120	54	50	2,133
NATURAL GAS CONNECTION UINT NAME					NAT GAS DEI
RTU'S					1,893
GENERATOR					41.7
GAS WATER HE	ATER				199
\Λ/ΔΤΕΙ	R HAMN	IER ARR	ESTOR	S NOTE: INSTA	LL AT ALL FL IRES
PDI DESIGNATION			N	WADE	MAX FU
				WADE W-5	MAX FU

300

W-20

W-50

W-75 W-100 113

154

330

	WASTE	COLD WATER	HOT WATER
SHOWERS (SH-1)	2"	1/2"	1/2"
WATER CLOSET (FLUSH VALVE)	4"	1"	-
URINAL (FLUSH VALVE)	2"	3/4"	-
LAVATORY	2"	1/2"	1/2"
SINK	2"	1/2"	1/2"
MOP RECEPTOR	3"	3/4"	3/4"
ELECTRIC WATER COOLER	2"	1/2"	-
HYDRANT / HOSE BIB	-	3/4"	-

5040

t Number	Sheet Name
	LEAD SHEET
	DEMOLITION PLAN A
	DEMOLITION PLAN B
	DOMESTIC WATER PLAN - AREA A
	DOMESTIC WATER PLAN - AREA B
	WASTE AND VENT PLAN - AREA A
	WASTE AND VENT PLAN - AREA B
	GAS ROOF PIPING PLAN
	ENLARGED DRAWING
	ENLARGED DRAWING
	WASTE & VENT RISER
	DOMESTIC WATER RISER
	GAS RISER DIAGRAM
	DETAILS
	SCHEDULES

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ID DATE DESCRIPTION

DRAWN BY CHECKED BY: LEAD SHEET

16 OCT. 2024



DEMOLITION NOTES: A. EXISTING CONDITIONS CREATED FROM BEST AVAILABLE INFORMATION NOTIFY ENGINEER OF DISCREPANCIES IMMEDIATELY

B. COORDINATE DEMOLITION EFFORTS WITH OTHER TRADES AND REVIEW ARCHITECTURE DRAWINGS PRIOR TO START OF WORK C. ALL EXISTING WATER HEATERS, ASSOCIATED PUMPS WHERE APPLICABLE AND ANY OTHER PLUMBING EQUIPMENT SHALL BE REMOVED AND TURNED

D. ALL EXISTING DOMESTIC WATER PIPING AND EXISTING SANITARY PIPING ABOVE SLAB AND BELOW SLAB SHALL BE REMOVED IN AREA OF DEMOLITION.

KEYNOTES:

OVER TO OWNER

1. EXISTING DOMESTIC WATER DROP TO BELOW SLAB TO REMAIN. LINE FEEDS EXISTING OUT BUILDINGS. LINE TO BE RECONNECTED UNDER NEW WORK. COORDINATE WITH OWNER AND CM FOR WATER SHUTDOWN TO MINIMIZE

2. EXISTING YARD HYDRANT TO REMAIN. DISCONNECT PIPING AT BUILDING ENTRANCE. PREPARE PIPING TO BE RECONNECTED IN NEW WORK.

AREA OF DEMOLITION

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ID DATE DESCRIPTION

DRAWN BY: CHECKED BY: **DEMOLITION PLAN**

16 OCT. 2024

P0-11

AREA OF DEMOLITION

DEMOLITION NOTES:

A. EXISTING CONDITIONS CREATED FROM BEST AVAILABLE INFORMATION NOTIFY ENGINEER OF DISCREPANCIES IMMEDIATELY B. COORDINATE DEMOLITION EFFORTS WITH OTHER TRADES AND REVIEW ARCHITECTURE DRAWINGS PRIOR TO START OF WORK C. ALL EXISTING WATER HEATERS, ASSOCIATED PUMPS WHERE APPLICABLE AND ANY OTHER PLUMBING EQUIPMENT SHALL BE REMOVED AND TURNED OVER TO OWNER

D. ALL EXISTING DOMESTIC WATER PIPING AND EXISTING SANITARY PIPING ABOVE SLAB AND BELOW SLAB SHALL BE REMOVED IN AREA OF DEMOLITION.

KEYNOTES:

1. DEMO DOMESTIC MAKE-UP WATER BACK TO HOSE BIBB AND CAP. HOSE BIBB

2. REMOVE GAS PIPING & APPURTENANCES BACK TO METER. SITE PIPING AND METER TO BE RELOCATED BY UTILITY COMPANY.

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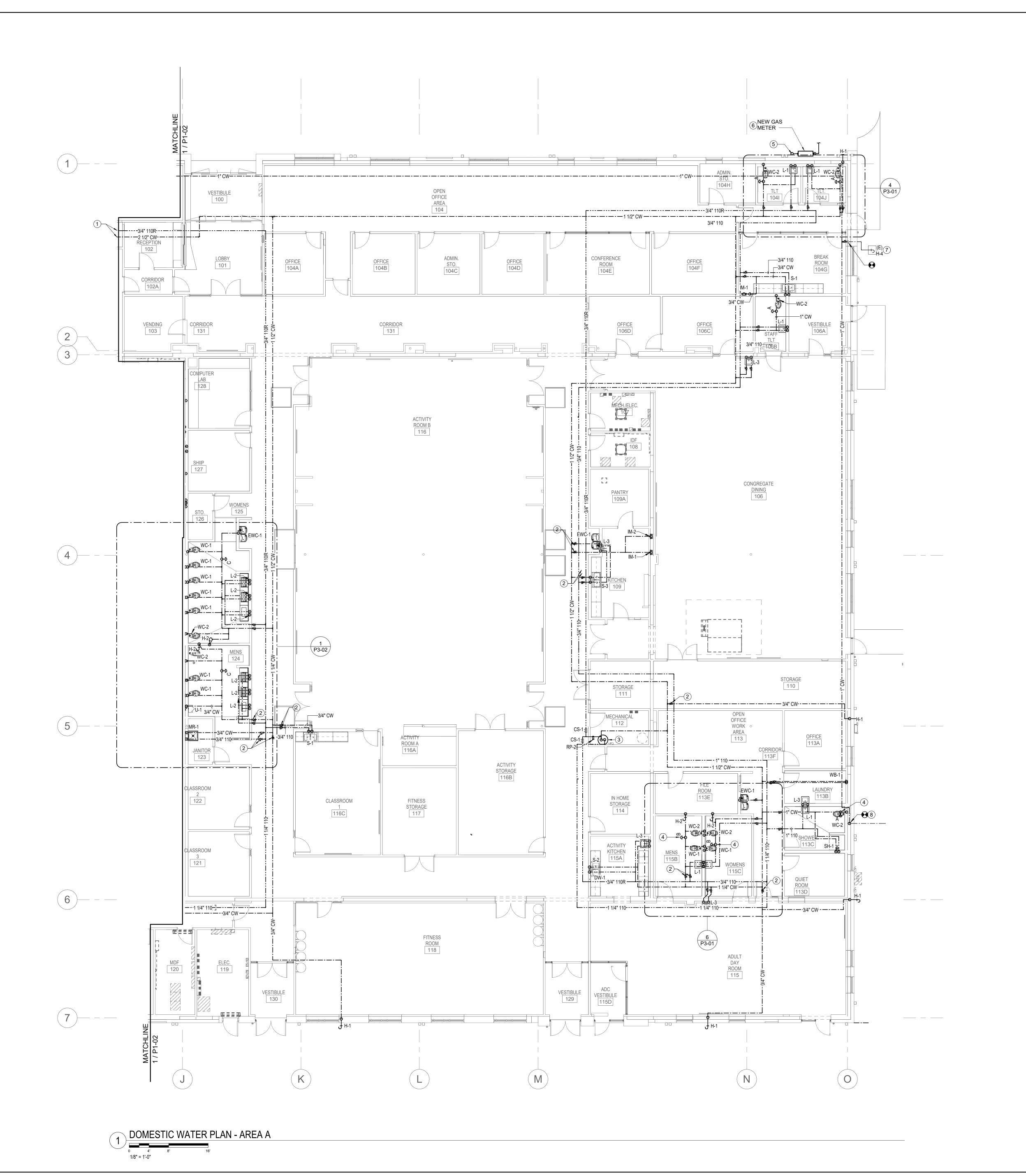
4600 Lake Boone Trail

Raleigh, NC 27607

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DRAWN BY: CHECKED BY: **DEMOLITION PLAN**

16 OCT. 2024 P0-12



A. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.

START OF WORK.

- B. ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- C. ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE
- D. COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN
- PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION
- F. PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P0-01 AND ACCESSIBLE FOR FUTURE REPLACEMENT -COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS
- G. PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE -COORDINATE NECESSARYACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN
- H. PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS I. DOMESTIC HOT AND COLD WATER SUPPLY AND/OR
- RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS
- J. PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS
- K. REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS

KEYNOTES:

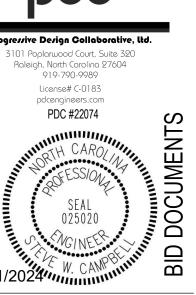
- 1. SEE SHEET P1-02 FOR CONTINUATION.
- 2. PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY.
- 3. REFER TO SHEET P6-01, SEE ELECTRIC WATER HEATER DETAIL #7
- 4. PROVIDE WATER HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED. REFER TO SHEET P0-01, SEE WATER HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR DEVICES COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
- 5. 2" GAS PIPING UP TO ROOF TO SERVE MECHANICAL EQUIPMENT. SEE SHEET P2-03 FOR CONTINUATION.
- 6. NEW GAS METER LOCATION BY GAS UTILITY COMPANY. COORDINATE WITH UTILITIES CONTRACTOR.
- 7. RECONNECT EXISTING YARD HYDRANT TO NEW WATER
- 8. RECONNECT TO EXISTING DOMESTIC WATER DROP. LINE FEEDS EXISTING OUT BUILDINGS. MAKE ADJUSTMENTS AS REQUIRED TO LAY WITHIN NEW 3 5/8" STUD WALL TIGHT TO EXISTING CMU. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

ARCHITECTURE

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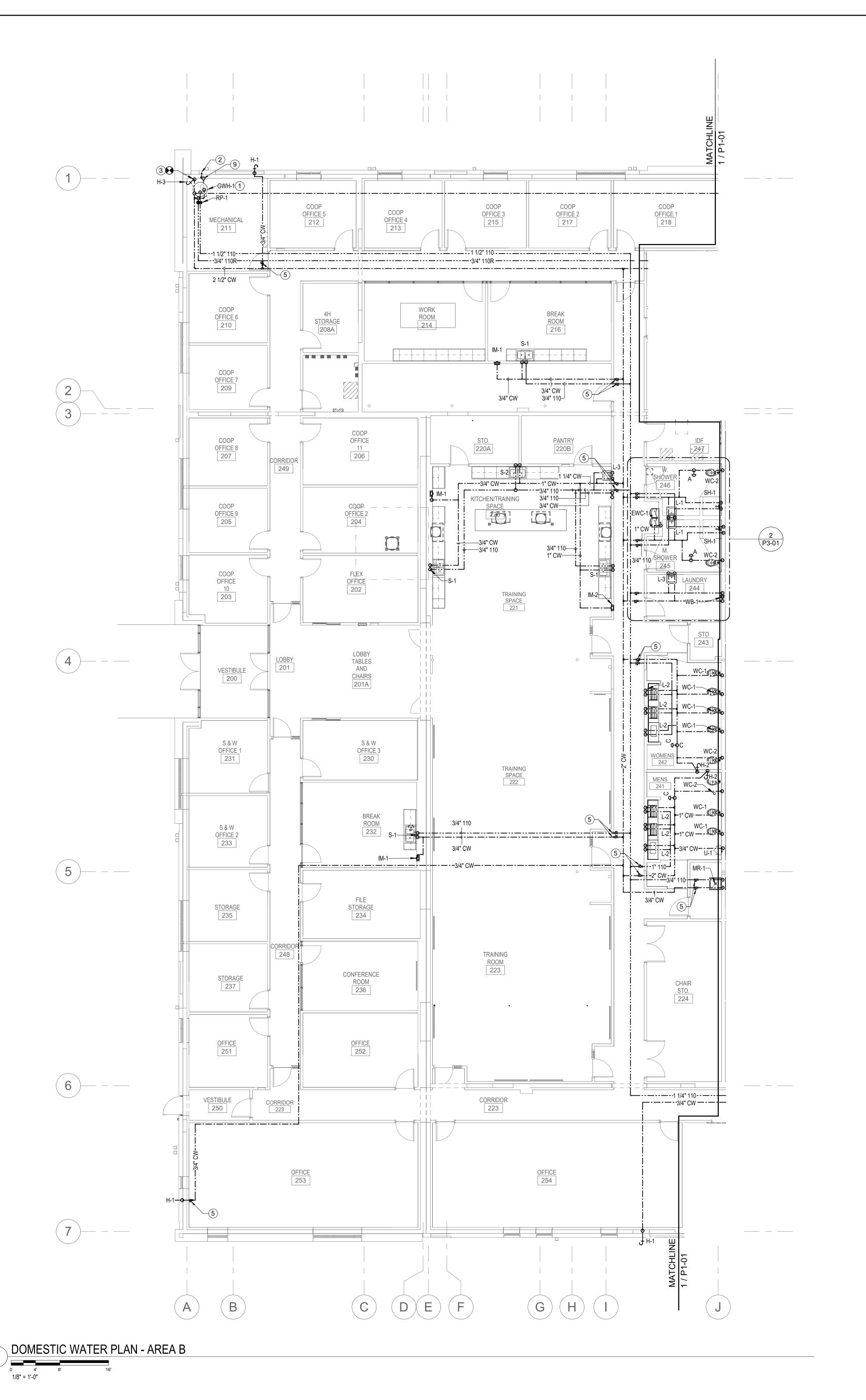
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DRAWN BY: CHECKED BY: DOMESTIC WATER PLAN - AREA A

16 OCT. 2024 P1-01



- A. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
- B. ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- C. ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
- D. COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN
- PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION
- F. PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P0-01 AND ACCESSIBLE FOR FUTURE REPLACEMENT -COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS
- G. PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE -COORDINATE NECESSARYACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN
- H. PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS I. DOMESTIC HOT AND COLD WATER SUPPLY AND/OR

RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING

- CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS J. PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT
- K. REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS

DRAWINGS

KEYNOTES:

1. PROVIDE MATERIALS AND MAKE FINAL CONNECTION TO WATER HEATER, PROVIDE UL AND FM LISTED FLEXIBLE CONNECTION WITH GAS TRAIN TO INCLUDE 6" DIRT LEG AND GAS SHUTOFF VALVE.

MAIN LOCATED IN MECHANICAL ROOM. FIELD VERIFY

EXISTING CONDITIONS TO VERIFY PIPE SIZE OF EQUAL

2. VENT THROUGH SIDEWALL WITH CONCENTRIC VENT,

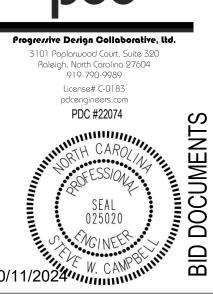
- REFER TO DETAIL 6 ON SHEET P5-01, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3. EXISTING DOMESTIC COLD WATER MAIN SERVICE ENTRANCE RISER. CONNECT TO EXISTING COLD WATER
- OR GREATER SIZE. 4. SEE SHEET P1-01 FOR CONTINUATION.
- 5. PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY.
- 6. REFER TO CIVIL PLANS FOR CONTINUTATION.
- 7. PROVIDE HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED.
- 8. REFER TO SHEET P0.01, SEE HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR MAINTENANCE.
- 9. PROVIDE 3/4" GAS PIPING DOWN FROM ROOF DECK TO SERVE (199 BTUH) GAS WATER HEATER. SEE PLUMBING FIXTURE SCHEDULE FOR SPECIFICATIONS.

ARCHITECTURE

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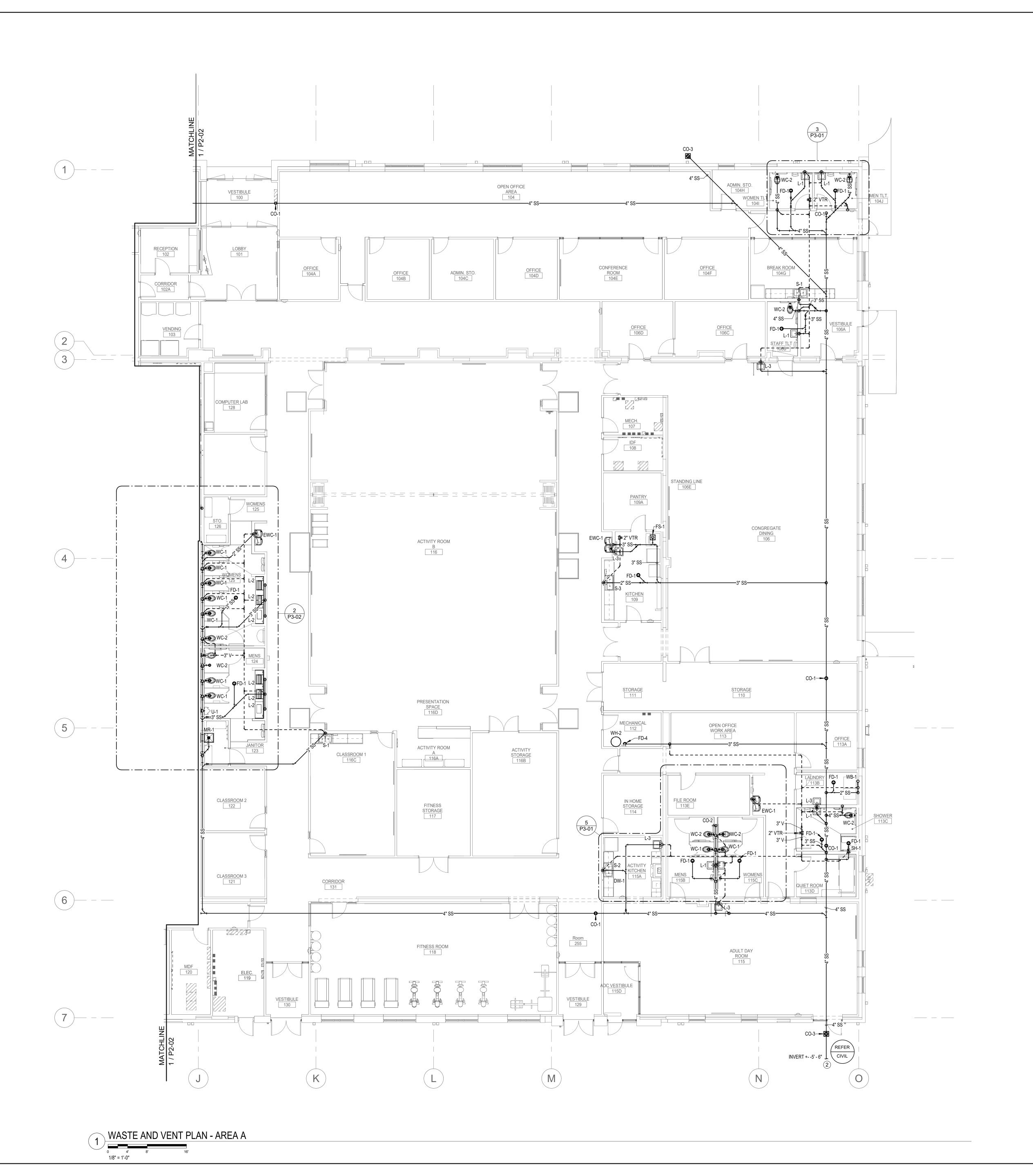
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DRAWN BY: CHECKED BY: DOMESTIC WATER PLAN - AREA B

2021029

16 OCT. 2024 P1-02



START OF WORK.

- A. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
- B. ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- C. ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE
- D. COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN
- PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION
- F. PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P0-01 AND ACCESSIBLE FOR FUTURE REPLACEMENT -COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS
- G. PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE -COORDINATE NECESSARYACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN
- H. PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS

 I. DOMESTIC HOT AND COLD WATER SUPPLY AND/OR

RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF

- CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS

 J. PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS
- K. REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS

KEYNOTES:

- 1. SEE SHEET P2-02 FOR CONTINUATION.
 - PROVIDE MATERIALS AND MAKE CONNECTION TO SANITARY SEWER PIPING PROVIDED BY SITE UTILTY CONTRACTOR

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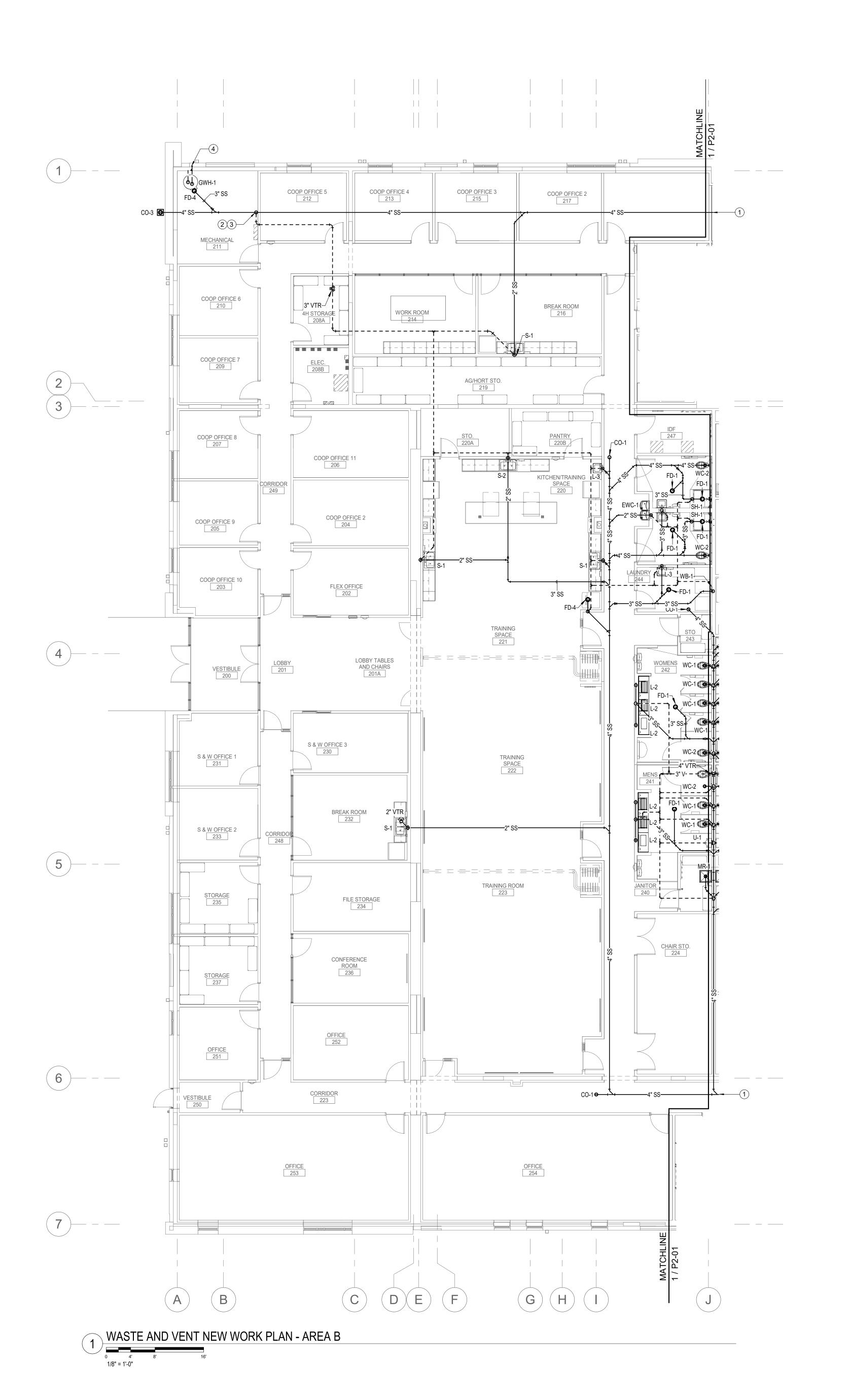
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ID DATE DESCRIPTION

DRAWN BY: JJG
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WASTE AND VENT
PLAN - AREA A

2021029 16 OCT. 2024

P2-01



- A. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
- B. ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- C. ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
- D. COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN
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- F. PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P0-01 AND ACCESSIBLE FOR FUTURE REPLACEMENT -COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS
- G. PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE -COORDINATE NECESSARYACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN
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- BRANCH SHUT-OFF VALVES AS SHOWN PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS J. PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION

TAGS AND NAMEPLATES MUST MATCH AS-BUILT

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KEYNOTES:

1. SEE SHEET P2-01 FOR CONTINUATION.

2" VENT PIPING UP.

DRAWINGS

- 3. COORDINATE PIPE ROUTING IN THIS AREA PRIOR TO START OF WORK - PIPING RISE AND DROP LOCATIONS SHALL BE COORDINATED WITH MECHANICAL SUBCONTRACTOR WORKING IN SAME AREA.
- 4. REFER TO DETAIL 6 ON SHEET P601 FOR INSTRUCTIONS CORRESPONDING TO THE INSTALLATION OF THE CONCENTRIC VENT FOR THE GAS WATER HEATER.



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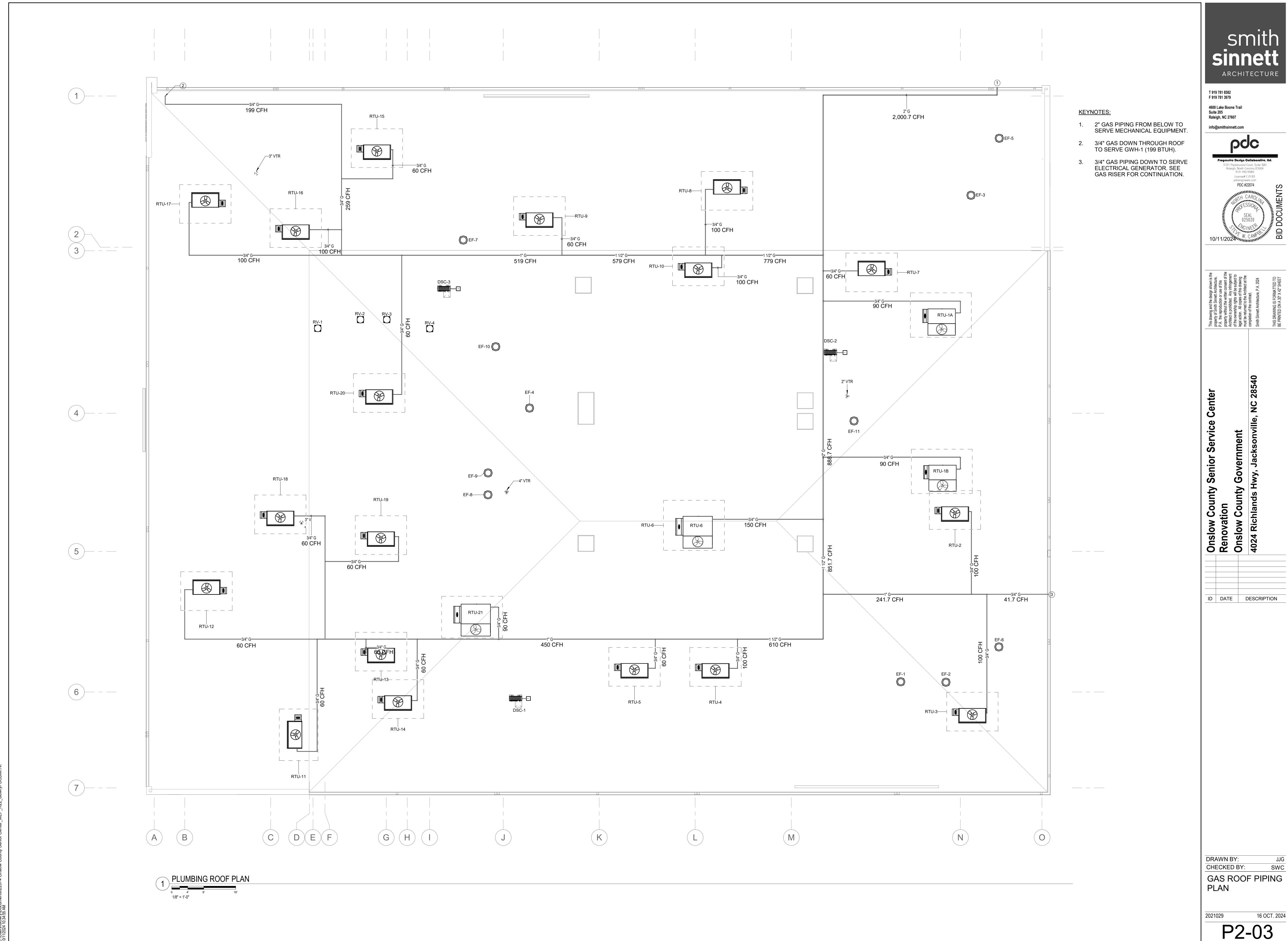
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WASTE AND VENT PLAN - AREA B

P2-02



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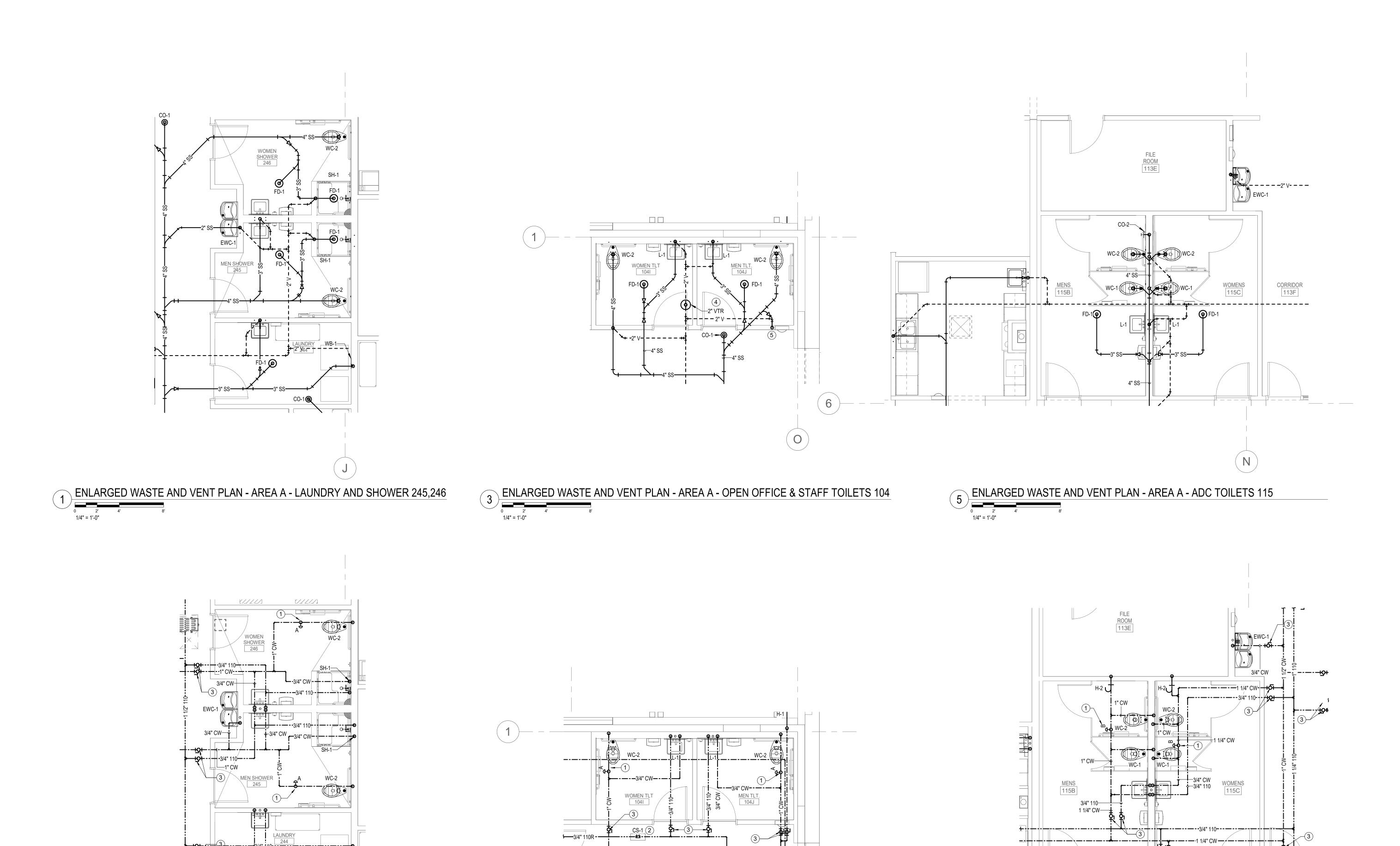
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P2-03



ENLARGED DOMESTIC WATER PLAN - AREA A - OPEN OFFICE & STAFF TOILET 104

WB-1-

ENLARGED DOMESTIC WATER PLAN - AREA A - LAUNDRY AND SHOWER 245,246

GENERAL NOTES:

- A. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE B. ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
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- PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P0-01 AND ACCESSIBLE FOR FUTURE REPLACEMENT -COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS
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KEYNOTES:

ENLARGED DOMESTIC WATER PLAN - AREA A - ADC TOILETS 115

---3/4" CW---

- 1. PROVIDE HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED. REFER TO SHEET P0.01, SEE HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR DEVICES LOCATED ON HARD CEILINGS FOR MAITENANCE. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
- PROVIDE BALANCING VALVE, (CIRCUIT SETTER) WITH INTEGRATED CHECK AND SHUT-OFF VALVES ON ALL HOT WATER RECIRCULATING BRANCHES CONNECTING BACK TO RECIRCULATING MAIN. INSTALL THE VALVE IN ACCESIBLE LOCATION AS CLOSE TO THE RETURN MAIN AS POSSIBLE FOR EASY ADJUSTING. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
- PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY. PROVIDE ACCESS DOOR AS REQUIRED FOR VALVES LOCATED ON HARD CEILINGS. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR
- 4. VENT PIPING UP TO VTR REFER TO ROOF PLAN
- 5. RUN 2" VENT HORIZONTAL BELOW SLAB OVER TO WALL AND RISE UP TO CEILING. CONTINUE AS SHOWN ON PLAN.

ARCHITECTURE

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Onslow County

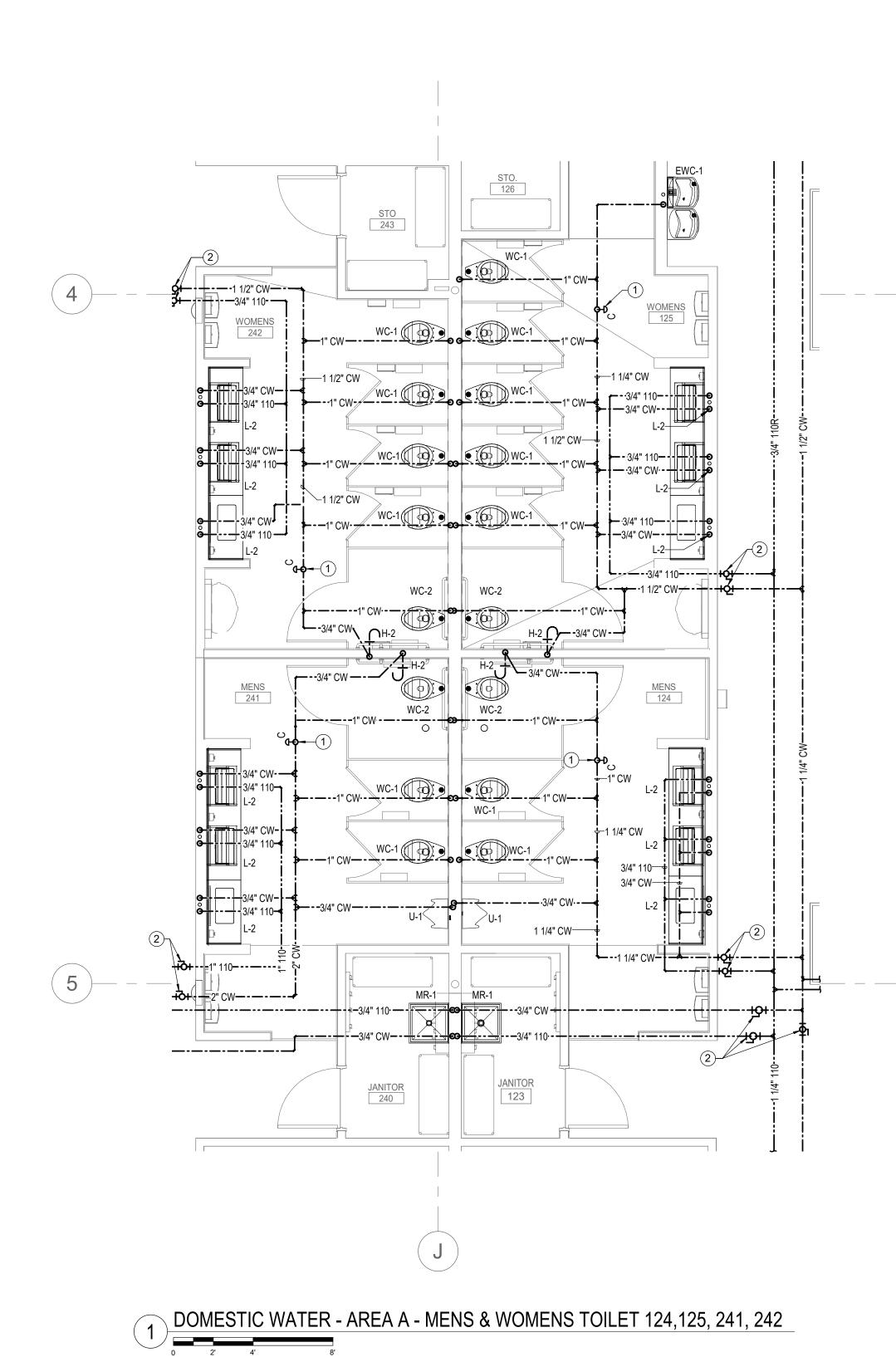
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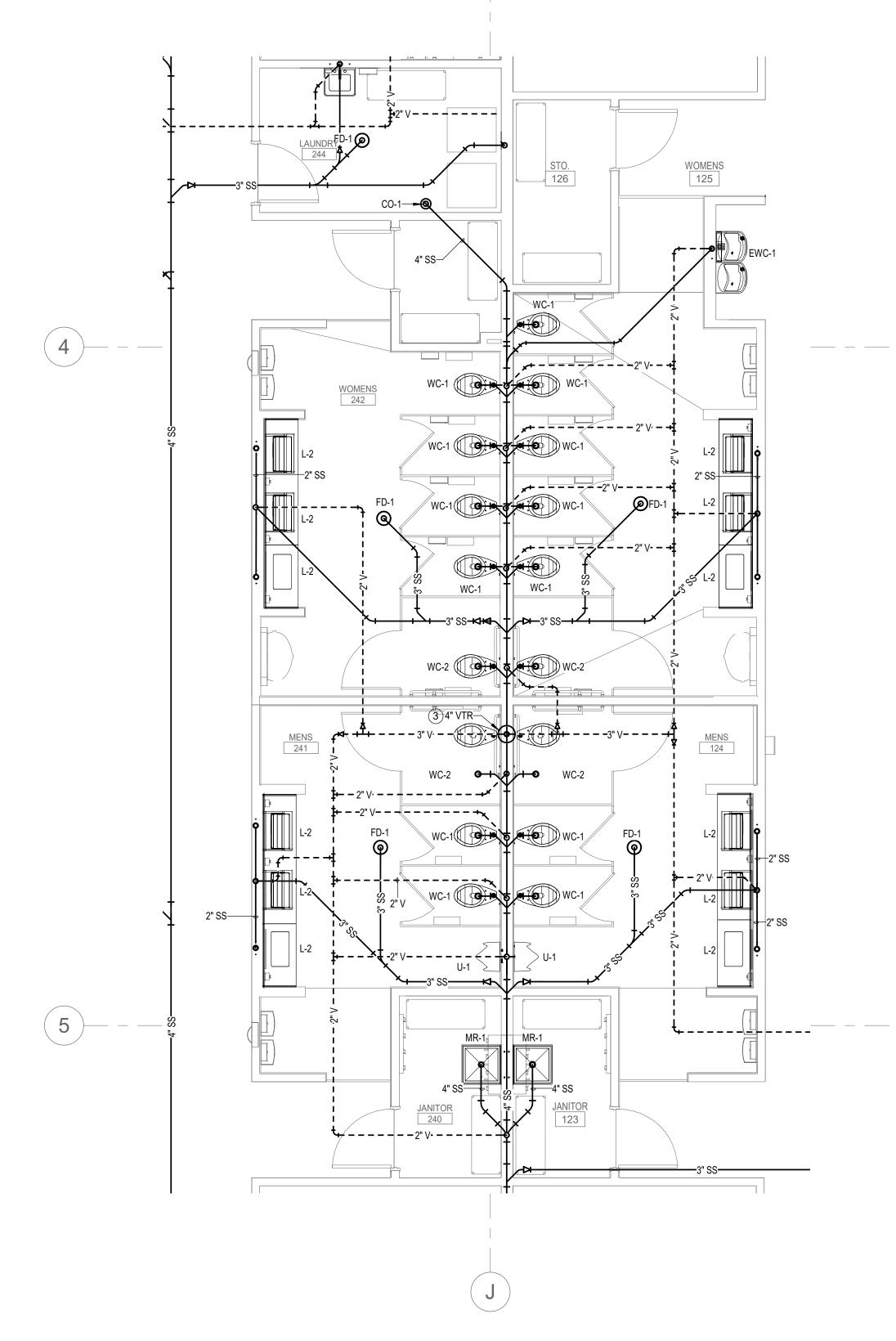
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DRAWING

16 OCT. 2024





WASTE & VENT- AREA A - MENS & WOMENS TOILET 125, 125, 241, 242

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FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS

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- 2. PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY. PROVIDE ACCESS DOOR AS REQUIRED FOR VALVES LOCATED ON HARD CEILINGS. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR
- 3. VENT PIPING UP TO VTR REFER TO ROOF PLAN

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P3-02

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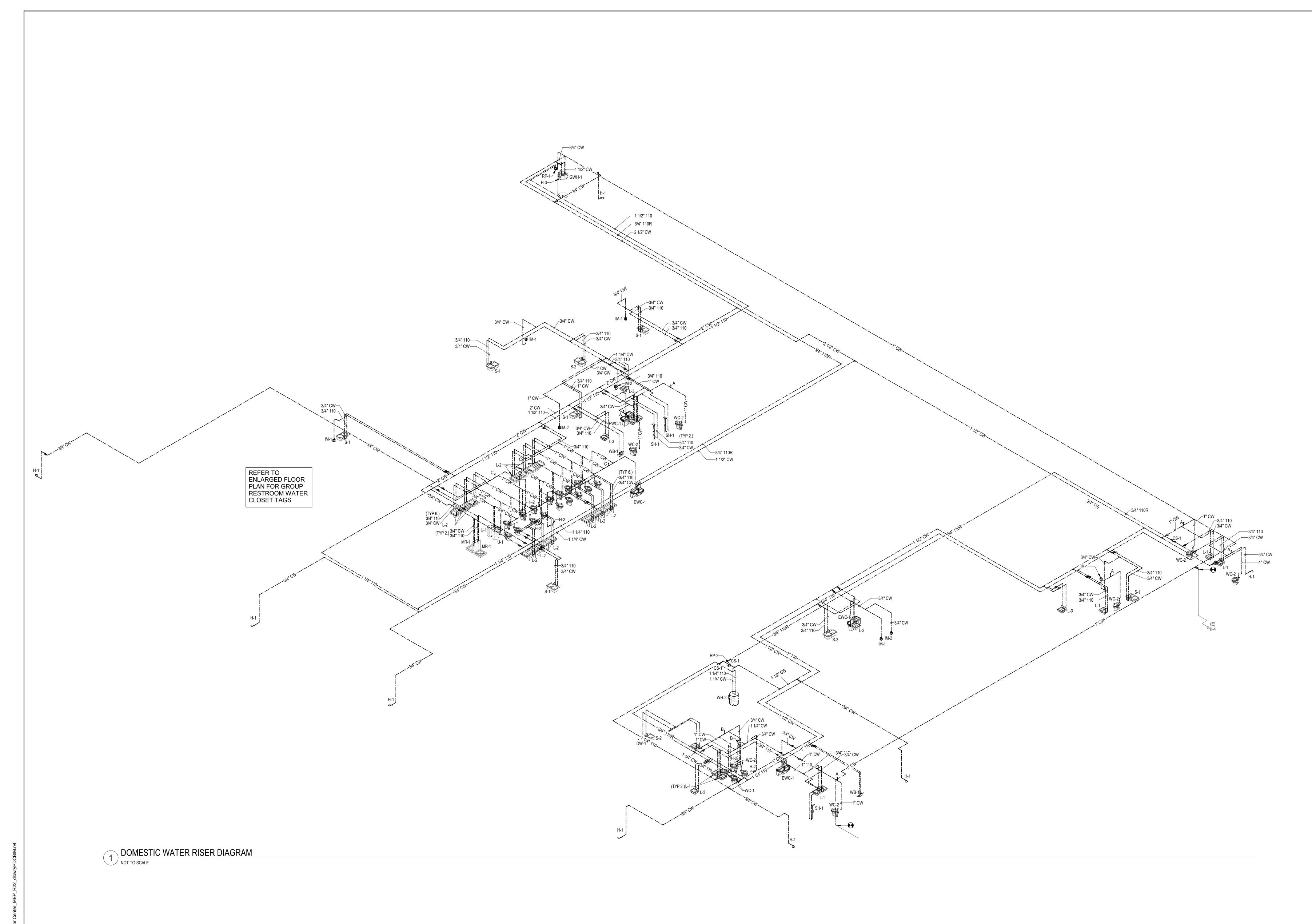
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P4-01

JJG SWC

WASTE AND VENT RISER DIAGRAM

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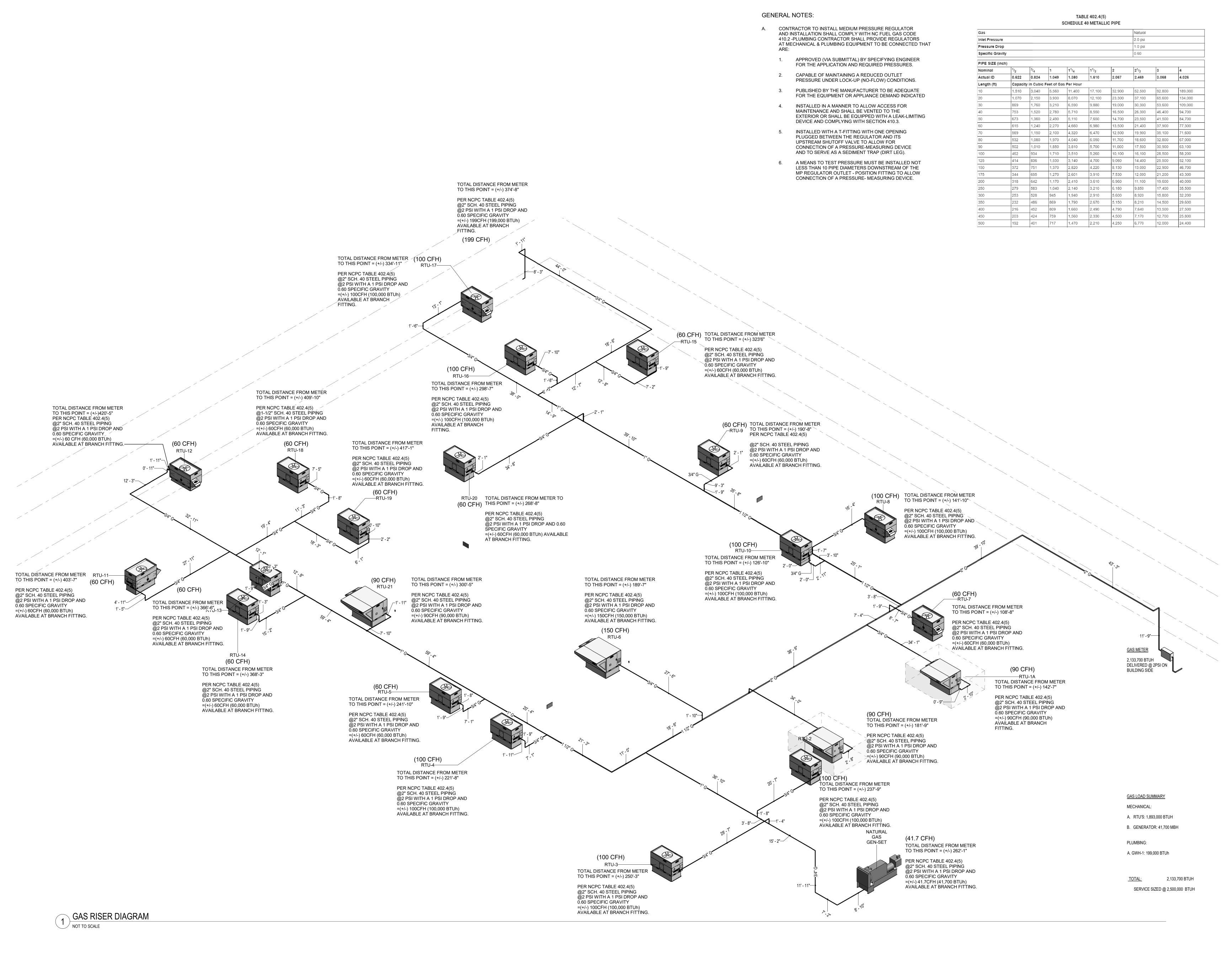
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DRAWN BY: CHECKED BY: JJG SWC DOMESTIC WATER RISER

16 OCT. 2024 2021029

P4-02



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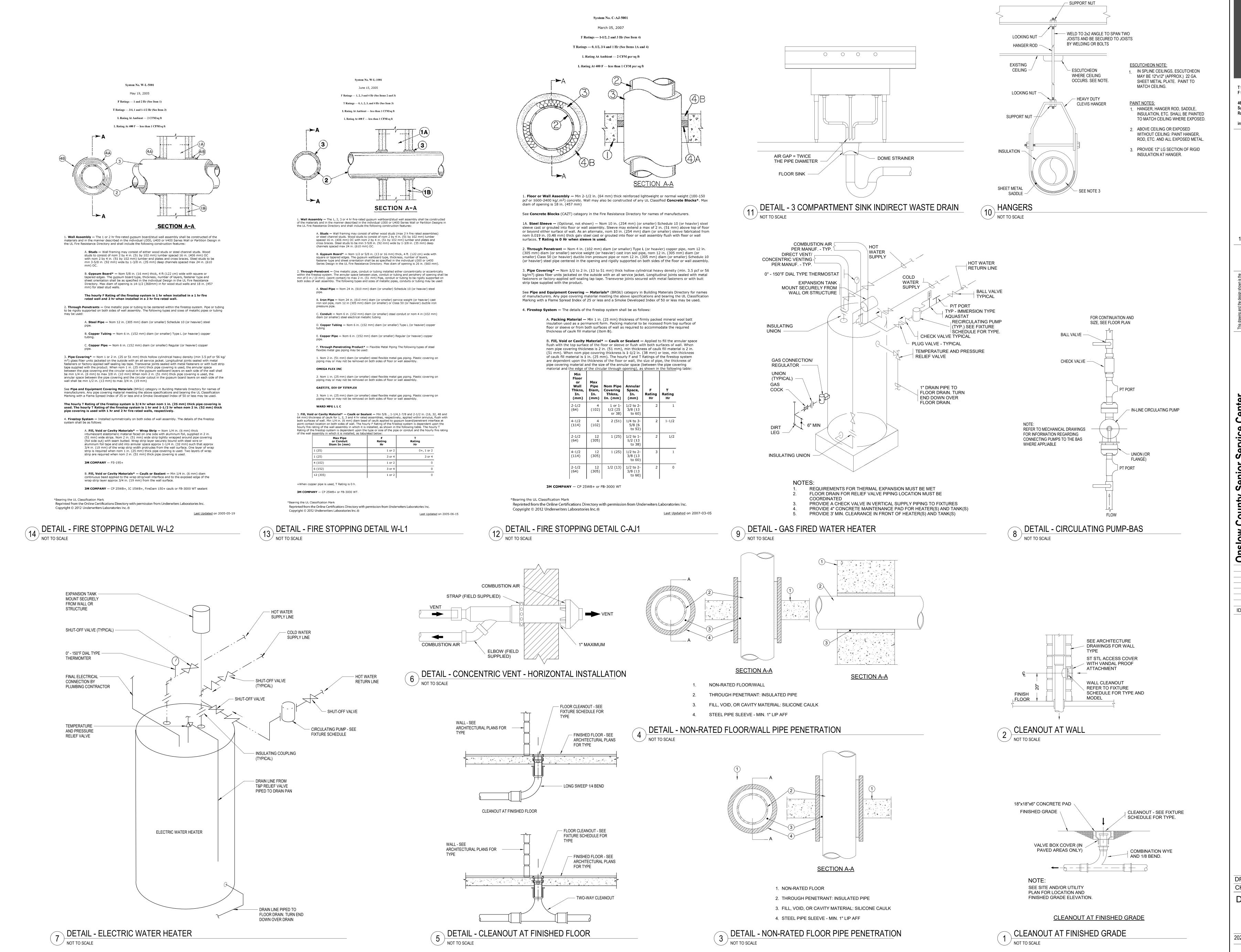
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GAS RISER DIAGRAM

16 OCT. 2024 2021029

SWC



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SWC

2021029 16 OCT. 2024 P5-01

	PLUMBING FIXTURE SCHEDULE	
MARK CO-1	DESCRIPTION CLEANOUT - FLOOR	REMARKS
	ZURN MODEL NO. ZN1400-BP WITH NICKEL BRONZE TOP AND BRONZE PLUG, PROVIDE -CM CARPET CLEANOUT MARKER WHERE IN CARPET CLEANOUT - WALL	
CO-3	ZURN MODEL NO. Z1441-BP-VP WALL CLEANOUT OR Z1446-BP-VP WALL CLEANOUT TEE TO SUIT APPLICATION, VANDAL PROOF SECURED TOP, SMOOTH ST STL ROUND ACCESS COVER CLEANOUT - GRADE	
CS-1	ZURN MODEL NO. Z1449-BP CLEANOUT FERRULE WITH BRONZE PLUG AT GRADE, WHERE IN PAVING PROVIDE WITH ZURN MODEL NO. ZN1474-G-VP HEAVY DUTY CLEANOUT HOUSING WITH INTEGRAL ANCHOR FLANGE, SECURED SCORIATED NICKEL BRONZE COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREW THERMOSTATIC BALANCING VALVE	
CS-1	CIRCUIT SOLVER UNION STRAINER ASSEMBLY WITH INTEGRAL BALL VALVES, CHECK VALVE, STRAINER, AND CIRCUIT SOLVER THERMOMETER ASSEMBLY AT EACH UNIT - SEE PLANS FOR QUANTITY	
DW-1	DISHWASHER CONNECTION DISHWASHER SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR. VERIFY COUNTER HEIGHT IN ARCHITECTURAL DRAWINGS PRIOR TO SPECIFYING DISHWASHER. SHALL BE SIMILAR TO SAMSUNG MODEL NO. DW80CG5450SRAA, WITH STAINLESS STEEL FINISH, PROVIDE 1/2" HW WITH QUARTER-TURN BALL VALVE UNDER SINK,	
EWC-1	PROVIDE CHROME PLATED BRASS DISHWASHER TAILPIECE AT SINK, MAKE FINAL CONNECTIONS ELECTRIC WATER COOLER W/BOTTLE FILLER (ACCESSIBLE)	30" AFF TO UPPER SPOUT
	ELKAY MODEL NO. LZSTL8WSLK, LIGHT GRAY, FILTERED, REFRIGERATED, ANTI-MICROBIAL, LAMINAR FLOW, HANDSFREE, ELECTRONIC BOTTLE FILLER SENSOR W/BUBBLER PUSHBAR ACTIVATION, FLEXI-GUARD SAFTEY BUBBLER, WALL MOUNTED, 115V/60HZ	26" AFF TO LOWER SPOUT
	PROVIDE JAY R. SMITH CARRIER NO. 0834 TO SUIT INSTALLATION. WHERE CARRIER CANNOT BE USED, SECURE FIXTURE RIGIDLY TO THE WALL WITH TOGGLE BOLTS OR RAM-SET ON BLOCK WALLS, OR PROVIDE WOOD OR STEEL BLOCKING IN GYPSUM BOARD WALLS. PROVIDE McGUIRE NO. 8902 P-TRAP AND BALL VALVE IN COLD WATER LINE WITHIN CABINET.	
FD-1	FLOOR DRAIN- FLUSH STRAINER ZURN MODEL NO. ZN415S-P DURA-COATED CAST IRON DRAIN WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, "TYPE S" POLISHED NICKEL BRONZE LIGHT-DUTY STRAINER, TRAP PRIMER.	
FD-4	HUB DRAIN - MECH. UNIT CONDENSATE 4 X 2, 4 X 3, OR 6 X 4 SCHED. 40 SOLID WALL PVC REDUCING COUPLING SET AS HUB DRAIN ABOVE FINISH FLOOR - COORDINATE HEIGHT WITH AHU CONDENSATE PIPING	
FS-1	IN FIELD - CONFIRM CONDENSATE DRAIN PIPE SIZES AT PLAN TO DETERMINE COUPLING SIZES NEEDED, ADD TRAP PRIMER. FLOOR SINK WITH 4" SUMP DEPTH	REFER TO DWGS FOR LOCATION
GWH-1	ZURN MODEL NO. Z1749-KC-19 12"X12"X4" DEEP 16 GAUGE, ALL TYPE 304 ST STL LIGHT-DUTY SANI-FLOR RECEPTOR WITH NON-TILT, FULL-HINGED FULL GRATE WITH 1/2" SQUARE OPENINGS, ANTI-SPLASH ST STL INTERIOR DOME STRAINER, AND ANCHOR FLANGE W/ SEEPAGE HOLES AND CLAMP COLLAR A. O. SMITH	
	WATER HEATER - AO SMITH, CYCLONE MXi-BTH199, 100 GALLON STORAGE CAPACITY NAT GAS WATER HEATER, POWER DIRECT VENT WITH SEALED COMBUSTION, RATED AT 199,000 BTU NATURAL GAS WITH A RECOVERY RATE OF 233 GALLONS PER HOUR AT 100°F RISE. HEATER STANDARD WITH ASME RATED TANK AND TEMPERATURE AND PRESSURE RELIEF VALVE, RATED FOR 150 PSI WORKING PRESSURE, 97% THERMAL EFFICIENCY FROM 40°F TO 140°F, CONDENSING DESIGN. PROVIDE CONCENTRIC VENTING KIT BY SAME MANUFACTURER WITH SEPARATE INTAKE AND FLUE. HEATER TO BE SET AT 110°F. PROVIDE STATE #ETC-10X EXPANSION TANK, BUTYL LINED. PROVIDE A. O. SMITH FLEXIBLE FOAM INSULATING JACKET, R-12.5 INSULATION VALUE, MEETING REQUIREMENTS OF UL-94 HBF, CALIFORNIA TECHNICAL BULLETIN 117 AND MVSS-302, WITH FLAME RETARDANT PVC VINYL COVERING RATED AT 225°F, FASTENED ON TANK WITH VELCRO FASTENER. SYSTEM MEETS OR EXCEEDS EFFICIENCY REQUIRE- MENTS OF ASHRAE/IES 90.1b - 1992. PROVIDE AMTROL MODEL NO. THERM-X-TROL ST-5 EXPANSION TANK WITH 150 PSI MAXIMUM WORKING PRESSURE AND FACTORY PRE-CHARGED TO 40 PSIG. RECIRCULATING PUMP (RP-1) - SEE DETAIL FOR QUANTITY. B&G SERIES 100, 7 GPM, 8 FEET HEAD, 120/1/60, 1/12 HP, ALL BRONZE CONSTRUCTION AND FLANGE CONNECTION. MAKE CONNECTION TO BUILDING AUTOMATION SYSTEM CONNECTION POINT PROVIDED BY MECHANICAL CONTRACTOR (IF APPLICABLE).	
H-1	FREEZELESS WALL HYDRANT EXTERIOR/ENCASED	MOUNT 24" AFG
	ZURN Z1300 ENCASED ECOLOTROL ANTI-SIPHON AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION, NON-FREEZE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, ALL BRONZE INTERNAL PARTS, NON-TURNING OPERATING RODS WITH FREE-FLOATING COMPRESSION CLOSURE VALVES, REPLACEABLE BRONZE SEAT AND SEAT WASHER, AND COMBINATION 3/4" FEMALE OR 1" MALE STRAIGHT IP INLET, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ONTO COVER.	
H-2	WALL HYDRANTS - INTERIOR/ENCASED JAY R. SMITH NO. 5518 WITH INTEGRAL VACUUM BREAKER, 3/4" MALE HOSE CONNECTION AND ALL BRONZE INTERIOR PARTS, NON-TURNING OPERATING COUPLING, 90°	MOUNT 12" AFF
H-3	INLET, STAINLESS STEEL BOX AND HINGED COVER WITH T-HANDLE KEY LOCK AND "WATER" CAST ON COVER HOSE BIBB - INTERIOR/FACILITIES	MOUNT 12" AFF
	WOODFORD MODEL NO. 24 HYDRANT/HOSE BIBB, CHROME PLATED BRASS, VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, WALL FLANGE, AND OPTIONAL METAL WHEEL HANDLE	
IM-1	REFRIGERATOR ICE MAKER	
	GUY GRAY MODEL NO. BIM875 WITH 20 GAUGE GALVANIZED STEEL BOX AND 20 GAUGE FACEPLATE, WITH 1/2" FIP INLET (1/2" MPT OR 1/4" 5/8" OD SWEAT CONNECTION) AND 1/4" OD OUTLET COMPRESSION ANGLE VALVE. PROVIDE WATTS 9BD BACKFLOW PREVENTER. COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT FOR MODEL REFRIGERATOR PROVIDED UNDER GENERAL CONTRACT.	
IM-2		COORDINATE MOUNTING HEIGHT WITH EQUIPMENT MANUFACTURERS RECOMMENDATIONS
L-1	ICE MAKER BOX OATEY MODEL NO. 39152, WITH QUARTER-TURN BALL VALVE AND WATER HAMMER, PROVIDE WATTS 9BD DUAL-CHECK VACUUM BREAKER, COORDINATE MOUNTING HEIGHT WITH ICE MAKER/EQUIPEMENT PROVIDED BY OWNER, MAKE FINAL CONNECTIONS LAVATORY (HANDICAP ACCESSIBLE) - WALL HUNG	27" AFF TO RIM
	LAVATORY - AMERICAN STANDARD MURRO UNIVERSAL MODEL NO. 0954.004EC 21 1/4" X 22" VITREOUS CHINA, WALL HUNG WITH ONE FAUCET HOLE. FAUCET CHICAGO FAUCETS MODEL 2200-E2805ABCP CHROME PLATED CAST BRASS SINGLE LEVER, SINGLE HOLE MOUNTED FAUCET WITH CERAMIC CARTRIDGE, TEMPERATURE LIMIT STOP, AND VANDAL RESISTANT .5 GPM AERATOR. McGUIRE NO. 170 SUPPLIES WITH ESCUTCHEONS. DRAIN AND TAILPIECE - McGUIRE NO. 155A WITH PERFORATED	
L-2	STRAINER. P-TRAP - McGUIRE NO. 8902 17 GAUGE SEMI-CAST BRASS. CARRIER - ZURN. WRAP - PLUMBEREX HANDY-SHIELD ON SUPPLIES AND TRAP. LAVATORY - THREE SINK - ONE PIECE - WALL HUNG (ACCESSIBLE)	30" AFF TO RIM
	BRADLEY (OR APPROVED EQUAL) LD3010-STD-SL-TR1 OMNIDECK W/ CENTERSHANK FAUCET DRILLINGS 3 STATIONS WITH BACKSPLASH. (3) CHICAGO FAUCETS MODEL 3501-4E2805ABCP METERING FAUCET, CHROME PLATED CAST BRASS CONSTRUCTION, SINGLE HOLE MOUNTED FAUCET WITH CERAMIC CARTRIDGE, TEMPERATURE LIMIT STOP, AND VANDAL RESISTANT .5 GPM AERATOR. PROVIDE McGUIRE NO. 155A DRAIN AND TAILPIECE WITH PERFORATED STRAINER, AND McGUIRE NO. 8902C P-TRAP. PROVIDE ZURN CARRIER MODEL NO. Z1224 TO FIT INSTALLATION REQUIREMENTS. PROVIDE McGUIRE PROWRAP ON SUPPLIES AND TRAP. TAILPIECE ON SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET.	

	PLUMBING FIXTURE SCHEDULE	
MARK	DESCRIPTION	REMARKS
L-3	HAND SINK (ACCESSIBLE)	34" AFF TO RIM
	JUST MANUFACTURING - MODEL NUMBER A3338-J, 22" x 19" x 5-1/2" STAINLESS STEEL WALL HUNG LAVATORY SINK WITH OVERFLOW AND BACKSPLASH, 3-HOLE PUNCH, 18 GUAGE 304 STAINLESS STEEL WITH A SATIN FINISH, REAR CENTER DRAIN AND SOUND DEADENING PADS. PROVIDE WITH ELKAY MODEL LK402T4 4" CENTERSET DECK MOUNTED FAUCET, SHALL HAVE 4" WRISTBLADE HANDELS, 0.5 GPM FLOW, CHROME PLATED BRASS, QUARTER TURN CERAMIC DISC VALVE. PROVIDE McQUIRE NO. 170 SUPPLIES WITH ESCUTCHEONS, McGUIRE NO 155A DRAIN AND TAILPIECE WITH PERFORATED STAINLESS STEEL STRAINER, McGUIRE NO 8902 P-TRAP, AND McGUIRE PROWRAP COVERS ON TRAP AND SUPPLIES.	3
MR-1	MOP RECEPTOR	36" AFF TO FAUCET CONTROLS
RP-1	FLORESTONE MODEL 80 24" x 24" x 12" ONE-PIECE PRECAST TERRAZZO WITH CAST INTEGRAL ST STL PROTECTIVE CAPS ON ALL SIDES, DRAIN BODY SHALL BE BRASS, CAST INTEGRAL WITH A NON-CAULKED CONNECTION NOT LESS THAN 1" DEEP TO A 3" PIPE AND 18 GAUGE ST STL STRAINER, FLORESTONE NO. MR-371 SERVICE SINK FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER, SPOUT, AND PAIL HOOK WALL BRACE, AND FLORESTONE NO. MR-370 5'-LONG HOSE AND HOSE BRACKET. RECIRCULATING PUMP	18" AFF TO HOSE BRACKET
	B&G SERIES 100, 15 GPM, 7 FEET HEAD, 120/1/60, 1/12 HP, ALL BRONZE CONSTRUCTION AND FLANGE CONNECTION. TIMECLOCK SHALL BE A TORK 7200L, 120 V., DOUBLE POLE, SINGLE THROW, WITH A 10 HOUR SPRING CARRYOVER	
RP-2	RECIRCULATING PUMP	
S-1	B&G SERIES 100, 15 GPM, 7 FEET HEAD, 120/1/60, 1/12 HP, ALL BRONZE CONSTRUCTION AND FLANGE CONNECTION. TIMECLOCK SHALL BE A TORK 7200L, 120 V., DOUBLE POLE, SINGLE THROW, WITH A 10 HOUR SPRING CARRYOVER DOUBLE BOWL SINK - COUNTER MOUNTED	SEE ARCHITECTURE DRAWINGS FOR COUNTER
3-1		HEIGHT
	ELKAY, MODEL NO. LRAD3322, TYPE 304, 18 GAUGE STAINLESS STEEL SINK, 33" x 22" WITH TWO 13 1/2" x 16" x 5 1/2" DEEP BOWLS WITH CENTER BACK OUTLETS. SINK SHALL BE SELF RIMMING, SOUND DEADENED, SATIN FINISHED. PROVIDE WITH T & S BRASS FAUCET MODEL B-0320 WITH B-0412 RIGID-TO-SWIVEL ADAPTER FOR GOOSENECK SPOUT, B-0199-07 VANDAL- RESISTANT AERATOR AND B-WH4 4" WRIST-ACTION HANDLES INDEXED FOR HOT AND COLD. PROVIDE McGUIRE NO. 170 SUPPLIES WITH ESCUTCHEONS, McGUIRE NO. 152N GRID STRAINERS WITH 6", 17- GAUGE TAILPIECES, McGUIRE NO. 1000WC OFFSETS, McGUIRE NO. 111C16G17 CONTINUOUS WASTE, AND McGUIRE 8912 CAST BRASS P-TRAP. SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET.	PROVIDE FAUCET FITTING TO RESTRICT SWING TO 180°
S-2	DOUBLE SINK (ACCESSIBLE)	SEE ARCHITECTURE DRAWINGS FOR COUNTER HEIGHT
	JUST, DOUBLE BOWL, MODEL NO. DL-ADA-1933-A55-J, 18 GAUGE, TYPE 304 STAINLESS STEEL, SATIN FINISH, SELF-RIMMING, SOUND DEADENED, 19 1/2" x 33" x 5 1/2" DEEP WITH 14" x 14" BOWLS, 3-HOLE PUNCHED, CENTER BACK OUTLETS, WITH CHICAGO FAUCETS MODEL NO. 1100-GN8A-E35VPJKCP-317CP CAST BRASS RIGID/SWIVEL GOOSENECK FAUCET, CHROME PLATED, WITH WRIST BLADE HANDLES AND 1.5 GPM VANDAL RESISTANT AERATOR. McGUIRE NO. 170 SUPPLIES WITH ESCUTCHEONS, McGUIRE NO. 151 CRUMB CUP STRAINERS, McGUIRE 1000WC OFFSETS, McGUIRE 8912 P-TRAP, AND McGUIRE 111C16G17 CONTINUOUS WASTE. SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET. PROVIDE WITH (DW-1) SUPPLY AND WASTE CONNECTIONS AS SCHEDULED.	PROVIDE FAUCET FITTING TO RESTRICT SWING TO 180°
S-3	SINK DOUBLE BOWL - DROP-IN - KITCHEN	SEE ARCHITECTURE DRAWINGS FOR COUNTER HEIGHT
	ELKAY, DOUBLE BOWL, MODEL NO. STCR3322L, 20 GAUGE, TYPE 304 STAINLESS STEEL SELF-RIMMING, SATIN FINISH, BOTTOM ONLY PAD SOUND DEADENED, 33" x 22" x 10-1/4" WITH (1)14" x 15-3/4"x 10" BOWL AND (1) 14" x 15-3/74" x 7" BOWL, 3-HOLE PUNCHED, 4" CENTERS, CENTER OUTLET, ELKAY 8" CENTERSET FAUCET MODEL NO. LK843AF08LC CHROME PLATED BRASS FAUCET, DECK MOUNTED, 8" ARC TUB SPOUT, 2" LEVER HANDLES, QUARTER TURN CERAMIC DISC VALVE, 1.5 GPM VANDAL PROOF AERATOR, AND 44" FLEXIBLE HOSE WITH 1.2 GPM SPRAY HEAD. PROVIDE McGUIRE NO. 170 SUPPLIES WITH ESCUTCHEONS, McGUIRE NO. 151 CRUMB CUP STRAINER, McGUIRE 8902C P-TRAP, SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET, PROVIDE McGUIRE PLUMBEREX HANDY-SHILED COVERS ON TRAP AND SUPPLIES	PROVIDE FAUCET FITTING TO RESTRICT SWING TO 180°
SH-1	SHOWER (ACCESSIBLE)	MOUNT SHOWER VALVE AT 48" A.F.F. AND SHOWER
	SYMMONS MODEL S-9605-PLR, POLISHED CHROME FINISH, TEMPTROL PRESSURE BALANCING VALVE, INTEGRAL DIVERTER CONTROL, METAL LEVER HANDLE, ADA 36" GRAB BAR, DUAL CHECK VALVE FOR BACKFLOW PREVENTION, 60" FLEXIBLE METAL HOSE, 2.0 GPM FLOW RESTRICTORS.	HEAD AT 78" A.F.F.
	REFER TO FLOOR DRAIN(FD-1)	
U-1	URINAL - ADA	17" AFF TO RIM
WB-1	AMERICAN STANDARD WASHBROOK MODEL 6515001.020 WALL HUNG, 3/4" TOP SPUD, VITREOUS CHINA, ELONGATED RIM, 0.5 GAL FLUSH, SIPHON JET OPERATION ZURN NO. Z6003-EWS MANUAL FLUSH VALVE. CARRIER SHALL BE JAY R. SMITH #0636 OR 0637 TO FIT INSTALLATION REQUIREMENTS WASHING MACHINE BOX	PROVIDE FILTROL MODEL 160 OR APPROVED EQUAL
VV D-1	20 GAUGE GALV. STEEL BOX AND FACEPLATE WITH 2" DRAIN PIPE AND (2) 3/4" QUARTER-TURN BRASS HAMMER BALL VALVES WITH 3/4" HOSE THREAD CONNECTIONS AND 2" RUBBER TAILPIECE - PROVIDE OATEY MODEL NO. 38987 PVC TAILPIECE WHERE APPLICABLE, COORDINATE MOUNTING HEIGHT WITH WASHING MACHINE PROVIDED IN GENERAL CONTRACT, MAKE FINAL CONNECTIONS	WALL MOUNTED WASTE FILTER INCLUDING
WC-1	WATER CLOSET(STANDARD) - FLOOR MOUNTED	15" AFF TO RIM
	AMERICAN STANDARD MADERA MODEL 2234.001, FLOOR MOUNTED, VITREOUS CHINA ELONGATED WATER CLOSET WITH SIPHON JET ACTION AND 1-1/2" TOP SPUD - 1.6 GAL. FLUSH, 15" RIM HEIGHT	COORD. VALVE HANDLE HEIGHT WITH GRAB BARS WHERE APPLIES
	TOILET SET BEMIS COMMERCIAL MODEL 1655SSCT EXTRA HEAVY DUTY SOLID PLASTIC OPEN FRONT ELONGATED SEAT WITH ST STL POSTS, ST STL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING NUTS	
	FLUSH VALVE - (MANUAL) SLOAN MODEL WES 111, CHROME PLATED FINISH, 1-1/2" TOP SPUD, DUAL FLUSH, EXPOSED MANUAL WATER CLOSET, DIAPHRAGM VALVE, PERMEX SYNTHETIC RUBBER DIAPHRAGM, 1.6 GPF	
WC-2	WATER CLOSET(ACCESSIBLE) - FLOOR MOUNTED	16" AFF TO RIM
	AMERICAN STANDARD MADERA MODEL 3043.001, FLOOR MOUNTED, VITREOUS CHINA ELONGATED WATER CLOSET WITH SIPHON JET ACTION AND 1-1/2" TOP SPUD - 1.6 GAL. FLUSH, 16-1/2" RIM HEIGHT	COORD. VALVE HANDLE HEIGHT WITH GRAB BARS WHERE APPLIES
	TOILET SET BEMIS COMMERCIAL MODEL 1655SSCT EXTRA HEAVY DUTY SOLID PLASTIC OPEN FRONT ELONGATED SEAT WITH ST STL POSTS, ST STL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING NUTS	
\\/	FLUSH VALVE - (MANUAL) SLOAN MODEL WES 111, CHROME PLATED FINISH, 1-1/2" TOP SPUD, DUAL FLUSH, EXPOSED MANUAL WATER CLOSET, DIAPHRAGM VALVE, PERMEX SYNTHETIC RUBBER DIAPHRAGM, 1.6 GPF ELECTRIC WATER HEATER	
vv ⊓-∠		
	A.O. SMITH MODEL NO. DEN-66, 66 GALLON TALL ELECTRIC WATER HEATER. CONTAINS TWO ELEMENTS, SHALL BE RATED AT 6100 WATTS, 480/3/60, WITH A SIMULTANEOUS OPERATION. ELEMENTS SHALL BE CONTROLLED BY A MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUTOFF SWITCH. HEATER SHALL BE SET AT 110°F WATER TEMPERATURE. TANK SHALL BE GLASS LINED, RATED FOR 150 PSI WORKING PRESSURE, AND SHALL HAVE A SIX-YEAR WARRANTY. WATER HEATER SHALL MEET ALL THE REQUIREMENTS OF CURRENT VERSION OF ASHRAE 90. EFFICIENCY STANDARDS. PROVIDE AMTROL MODEL NO. THERM-X-TROL ST-5 EXPANSION TANK WITH 150 PSI MAXIMUM WORKING PRESSURE AND FACTORY PRE-CHARGED TO 40 PSIG.	

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Renovation
Onslow County Governmen
4024 Richlands Hwy, Jackson

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