# GENERAL PLUMBING NOTES

- ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE 8TH EDITION OF THE FLORIDA BUILDING CODES (2023), AND ALL APPLICABLE CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITIES. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THE APPLICABLE CODES. IN THE EVENT OF CONFLICT BETWEEN THE CODE REQUIREMENTS AND THE DRAWINGS OR SPECIFICATIONS THE MOST STRINGENT SHALL PREVAIL.
- THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVALIABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS, DIMENSIONS, CLEARANCES, LOCATION OF EXISTING UTILITIES, ETC. PRIOR TO BIDDING, FABRICATION, OR INSTALLATION. DO NOT SCALE FROM THESE MANUFACTURER INSTALLATION DATA..
- COORDINATE PLUMBING INSTALLATION AMONG TRADES TO AVOID INTERFERENCES.
- CONTRACTOR SHALL NOT PASS SANITARY, DOMESTIC WATER, WENT PIPING OR ANY OTHER TYPE OF PLUMBING DIRECTLY OVER ANY ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOE TO MAINTAIN ANY REQUIRED CLEARANCES.
- INSULATE ALL ABOVE GROUND HOT DOMESTIC WATER PER SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, INSTALL ALL MATERIAL AND EQUIPMENT AND IONCLUDE SERVICES AND INCIDENTALS TO THE INSTALLATION OF WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS, AND PAY ALL FEES REQUIRED FOR THIS JOB.
- THE PIPING SYSTEM SHALL BE ARRANGED SO AS TO PREVENT WATER HAMMER, EACH ISOLATED FIXTURE SHALL HAVE A WATER HAMMER ARRESTOR.
- 10. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL STANDARD 1/2"X3/8" COMPRESSION ANGLE STOPS ON ALL WATER LINES UNLESS ANOTHER TYPE OF VALVE IS SPECIFIED.
- SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC UNLESS LOCATED IN AN HVAC RETURN PLENUM. SANITARY AND VENT PIPING LOCATED IN AN HVAC RETURN PLENUM TO BE CAST
- 12. ALL VENTS TO PENETRATE THROUGH ROOF (VTR) AND SHALL ETEND A MINIMUM OF 12' ABOVE ROOF AND SHALL TERMINATE A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
- 13. ALL ROOF PENETRATIONS FOR PLUMBING PIPING SHALL BE MADE IN COORDINATE WITH ARCHITECTURAL.
- 14. COPPER PIPING JOINTS SHALL BE SOLDERED USING SOLDER FILLER METAL (ASTM B-32) 95-5 TINANTIMONY.
- 15. ALL PENETRATIONS THROUGH MASONRY WALLS WILL BE CORE DRILLED AND SLEEVED.
- A. SLEEVES ARE REQUIRED WHERE A PIPE PASSES THROUGH A WALL OR FLOOR. PIPES PASSING THROUGH A WALL OR FLOOR MUST BE INDIVIDUALLY SLEEVED UNLESS APPROVED BY ARCHITECT.
- B. SLEEVES SHALL FINISH FLUSH WITH THE WALL FINISH AND SHALL FINISH 1/4" ABOVE FINISH FLOOR
- C. SLEEVES SHALL BE AS FOLLOWS: THROUGH MASONRY WALLS-GALVANIZED STEEL PIPE,
- CUT EDGES PAINTED. THROUGH PARTITIONS AND FLOOR -- SCHEDULE 40 PVC.

# 16. FLOORS DRAINS NOT REQUIRED

17. LABEL ALL PIPING PER ANSI STANDARDS WITH SERVICE AND TENANT SPACE. LABELS MUST BE LEGIBLE FROM FINISHED FLOOR WITH CEILING REMOVED.

16. PROVIDE ALL BACKING, SUPPORTS AND CARRIERS FOR FIXTURES.

19. CONTRACTOR SHALL PROVIDE APPROVED ACCESS DOORS IN FRAMED HOLES FOR ALL VALVES AND TRAP PRIMERS WHICH MUST BE LOCATED IN INACCESSIBLE LOCATIONS.

20. ALL WATER PIPING SHALL BE PITCHED IN DIRECTION OF FLOW TO ALLOW FOR SYSTEM DRAINING.

21. INSTALL WATER MAIN SHUT-OFF VALVE UPSTREAM FROM PRESSURE REGULATOR.

22. INSTALL WATER PRESSURE REGULATOR WHERE AVAILA'BLE UTILITY PRESSURE EXCEEDS 70 PSI. SET PRESSURE REGULATOR AT 65

23. ROUTE WATER PIPING IN SALES AREA, OVERHEAD AS HIGH AS POSSIBLE.

24. DRAIN, WASTE AND VENT LINES SHALL PASS INSPECTION UNDER HEAD OF WATER BY SYSTEM WITH WATER TO TOP OF HIGHEST VENT

25. WATER LINES SHALL PASS INSPECTION OF FOUR (4) HOURS UNDER 150 PSI PRESSURE. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE DISINFECTED BY SLOWLY FILLING WITH WATER TO WHICH A DISINFECTING AGENT HAS BEEN INJECTED AT A RATE OF 50 P.P.M. OF CHLORINE, WHICH SHOULD BE ALLOWED TO STAND IN THE PIPING FOR AT LEAST 24 HOURS, AFTER WHICH TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN FIVE (5) P.P.M. OF RESIDUAL CHLORINE AT EVERY WATER OUTLET IN THE BUILDING. IF THE RESIDUAL IS LESS THAN FIVE PPM, THE DISINFECTION SHALL BE REPEATED UNTIL THE REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET. AFTER REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET, THE SYSTEM SHALL BE FLUSHED UNTIL THE CHLORINE LEVEL AT EVERY OUTLET IS REDUCED TO THAT OF INCOMING WATER SUPPLY. IF STRICTER LOCAL REQUIREMENTS ARE IN PLACE, THOSE SHALL BE FOLLOWED.

			PLUMBING FIXURE SCHEDULE	REFER TO MATERIALS ON P2			
MARK	DESCRIPTION	MODEL#	REMARKS	HW CONNECTION	CW CONNECTION	WASTE CONNECTION	VENT CONNECTION
LAV-1	ADA LAVATORY	0355.012	20"X18" WALL HUNG ADA LAVATORY W/ FRONT OVERFLOW, CONCEALED HANGERS & 4" CENTERS. AMERICAN STANDARD LUCERNE #0355.012 OR EQUAL. FAUCET SHALL BE POLISHED CHROME-PLATED CAST BRASS BODY WITH 4" SPOUT, 4" BRASS WRIST BLADE, 0.5 GPM SPRAY AND GRID STRAINER DRAIN. AMERICAN STANDARD MONTERREY #5502.175 WITH WATTS MODEL USG-B-M1 TEMPERING VALVE OR EQUAL. INSULATE EXPOSED DRAIN & WATER PIPES WITH TRUEBRO LAV GUARD KIT #102 E-Z. PROVIDE SUPPLY LINES, STOP VALVES & P-TRAP.	1/2"	1/2"	2"	1-1/2"
WC-1	ADA WATER CLOSET	211AA.104	FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL. PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL).	- 1/2"		4"	2"
WC-2	ADA WATER CLOSET RIGHT- HAND TRIP LEVER	211AA.105	FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL WITH ALTERNATE TANK ASSEMBLY #4266.804 (RIGHT HAND TRIP LEVER). PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL).	- 1/2"		4"	2"
EWH-1	ELECTRIC WATER HEATER	EJC-10	PROVIDE 10 GALLON ELECTRIC WATER HEATER, 1.65KW @ 120V WITH MANUFACTURER SUPPLIED TEMPERATE AND PRESSURE RELIEF VALVE. (A.O. SMITH #EJC-10, OR EQUAL).  SET WATER HEATER TEMPERATURE AT 110°F MAXIMUM.  PROVIDE THERMAL EXPANSION TANK. (AMTROL THERM-X-TROL ST-12, OR EQUAL).  EXPANSION TANK SUPPORT:  IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT FOR THE EXPANSION TANK. SUPPORT TO ADJACENT WALL OR FROM EXISTING STRUCTURE ABOVE WITH UNISTRUT. DO NOT SUPPORT FROM PIPE ALONE. PROVIDE DRAIN PAN UNDER WATER HEATER.  PROVIDE SEISMIC STRAPPING ON WATER HEATER.  TERMINATE (EWH-1) DRAIN LINE IN MOP SINK (MS-1). PROVIDE FULL SIZE T&P RELIEF LINE. REFER TO WATER HEATER DETAIL ON SHEET P2 FOR ADDITIONAL INFORMATION.	3/4"	3/4"	-	-
MS-1	MOP SINK	MSB-24-24	24" X 24" MOLDED STONE MOP SERVICE BASIN, WITH 3' DRAIN. FIAT #MSB-2424 OR EQUAL. PROVIDE SERVICE FAUCET WITH PAIL HOOK 8 INTEGRAL VACUUM BREAKER, MOP BRACKET, FLAT STAINLESS STEEL STRAINER AND HOSE & BRACKET. FIAT #830 AA, 889 CC, 1453 BB 8 832 AA OR EQUAL. PROVIDE SUPPLY LINES AND P-TRAP.		3/4"	3"	2"
EDF-1	BARRIER FREE ELECTRIC DRINKING FOUNTAIN	EZTLRDDC	TWO-STATION, WALL MOUNTED, ELECTRIC DRINKING FOUNTAIN, BARRIER-FREE ACCESS (ADA), FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON RIGHT. ELKAY #EZTLRDDC OR EQUAL. PROVIDE SUPPLY LINE, STOP VALVE & P-TRAP. PROVIDE CANE APRON AS REQUIRED.		1/2"	2"	1-1/2"
WH-1	WALL HYDRANT	Z-1320	FREEZE-PROOF WALL HYDRANT WITH BRONZE BODY & ANTI-SIPHON VACUUM BREAKER, BOX AND LOCKING COVER. PROVIDE WITH HOSE CONNECTION AND MOUNT AT 24" ABOVE GRADE. WOODFORD #B65 OR EQUAL.	- 3/4" -		-	-
WCO-1	WALL CLEAN-OUT	Z-1441	SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL.	-	- AS SHOWN ON PLANS		-
ECO-1	EXTERIOR CLEAN-OUT		PROVIDE TRAFFIC RATED, 2-WAY, EXTERIOR CLEANOUT. TYLER PIPE #003519, OR EQUAL.	-	-	4"	-
FCO-1	FLOOR CLEAN-OUT	Z1400	PROVIDE ADJUSTABLE FLOOR CLEANOUT WITH WATERTIGHT TAPERED THREADED PLUG AND ROUND SCORIATED SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL.	-	-	AS SHOWN ON PLANS	-
RP-1	HOT WATER RECIRC PUMP		HOT WATER RECIRCULATION PUMP. TACO#003B. 115 V, 0.43 AMP, 1/40 HP, 1/2"CONNECTIONS, 4 FT HEAD. <b>PROVIDE</b> BALANCE VALVE, AQUASTAT & 7-DAY PROGRAMMABLE TIMER.	3/4"	3/4"	-	-
NOTES:				·	•		

# CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT:

- 1. CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS. 2. CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.
- 3. COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: CHW CONTACT: C. MENHENNETT PHONE: (386) 518-6514

- 1								
١	CIVIL SHEET	CIVIL SHEET	REV.	REV.	REV.	REV.	REV.	REV.
١	DWG. NO.	DWG. TITLE	NO.	DATE	NO.	DATE	NO.	DATE
	C3.00	UTILITY PLAN	ı	2-6-24				
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-	CC	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	
١	COORDINATION CHECKED BY:			2-14-24				

A. SCHEDULE 40 AND 80 PVC OR ABS PIPING WITH DWV PATTERN FITTINGS — SAN — SANITARY PIPING TO BE USED UNLESS OTHERWISE REQUIRED BY LOCAL CODE. SAN BLW. SANITARY PIPING BELOW -----V ------ VENT PIPING ——GAS —— GAS PIPING a) TYPE "L" COPPER TUBING, HARD TEMPER, COLD DRAWN WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS. CONNECTIONS COLD WATER PIPING TO FIXTURES AND EQUIPMENT SHALL BE MADE WITH 85% RED BRASS IPS SIZE PIPE OR COMPRESSION ANGLE STOPS. PROVIDE HOT WATER PIPING DIELECTRIC UNIONS WHERE CONNECTING PIPING OF DISSIMILAR MATERIALS. NOTE: INSULATE ALL HOT WATER PIPING WITH 1"
THICK ARMAFLEX PIPE KITS (FLEXIBLE UNICELLULAR) SHUT-OFF VALVE BACKFLOW PREVENTER b) TYPE "K" COPPER TUBING, HARD OR SOFT TEMPER, WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS. NOTE: NO PRESSURE REGULATOR FITTINGS SHALL BE PERMITTED BELOW GRADE INSIDE BUILDING.

-CLEAN-OUT PLUG AS SPECIFIED.

— FLOOR SLAB ON GRADE

— LONG SWEEP ELBOW AT

END, OR TURN OF RUN.

COMBINATION WYE AND EIGHTH

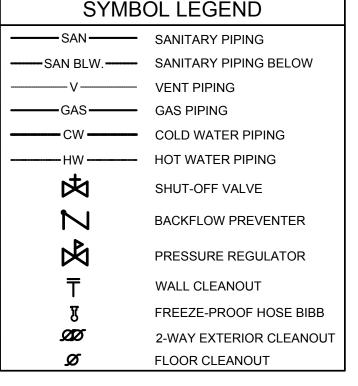
BEND IN RUN. REDUCING TYPE IF

REQUIRED. ENTER TOP OF PIPE.

— MEMBRANE CLAMP

APPLY TEFLON JOINT COMPOUND

TO THE CLEAN-OUT PLUG THREADS.





SAME SIZE

AS DRAIN LINE -

AS REQUIRED FOR

DEPTH OF SEWER.

SANITARY SEWER,

SIZE PER PLAN. -

FLOW -

1) PROVIDE TRUEBRO INSULATION KIT #102 ON PUBLIC LAVATORIES.

. DRAIN, WASTE AND VENT

. HOT AND COLD WATER

A. ABOVE GRADE.

B. BELOW GRADE.

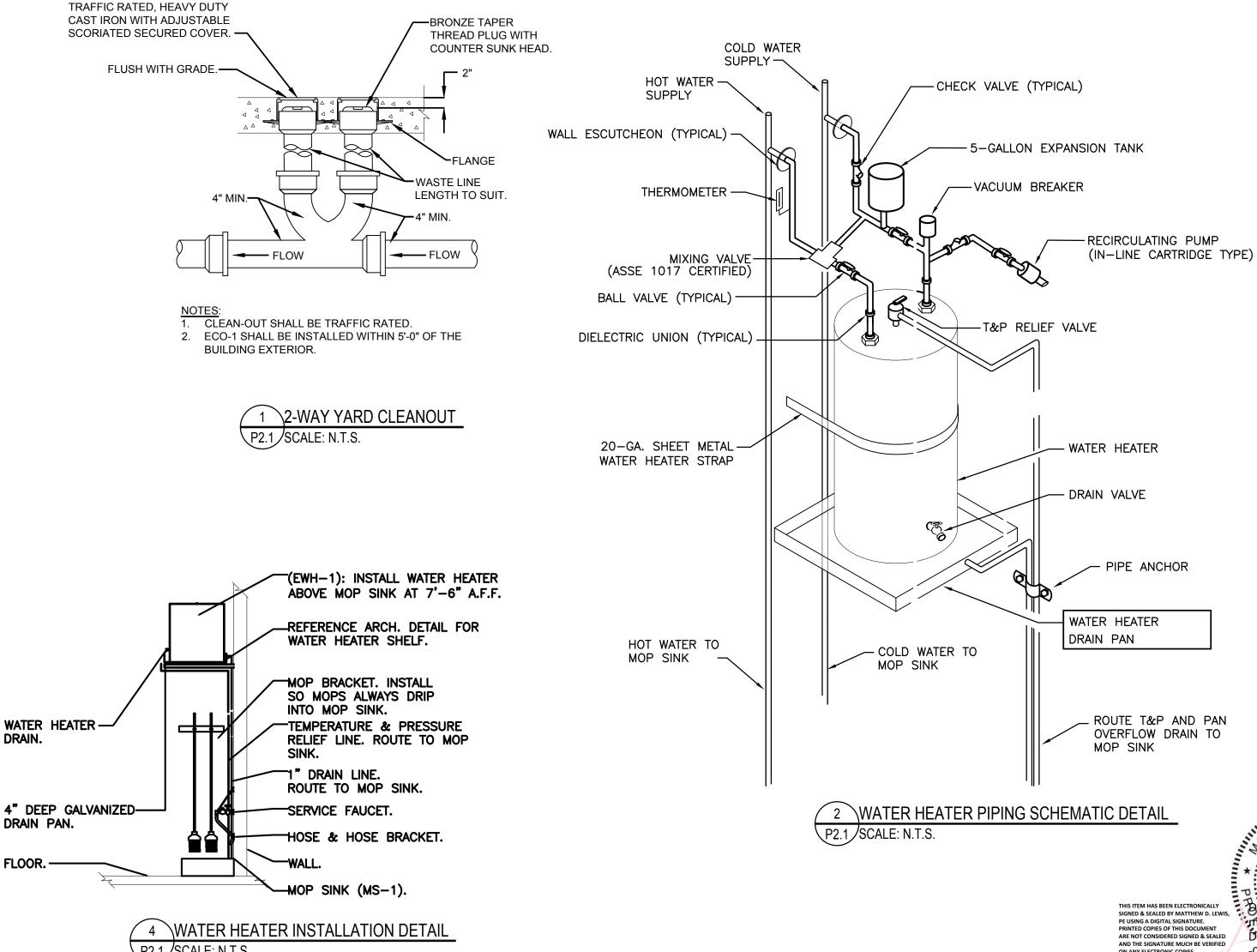
MATERIALS

NOTES:

1. REFER TO SCHEDULE FOR ADDITIONAL INFORMATION. LOCATE FLOOR CLEAN-OUT AT END OF RUN, TURNS OF PIPE GREATER THAN 45°, 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS & RISERS. PROVIDE BACKFILL AS REQUIRED. LOCATE CLEAN-OUT WHERE THERE IS 18" CLEAR AROUND, FOR ACCESSIBILITY. COORDINATE WITH LOCAL CODES AND AUTHORITY HAVING JURISDICTION FOR ANY ADDITIONAL REQUIREMENTS.

2. PROVIDE FLOOR CLEAN-OUT WITH ADJUSTABLE COVER. CLEAN-OUT COVER SHALL BE SUITABLE FOR RESPECTIVE FLOOR COVERING (RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS, ETC.). CLEAN THE TOP OF EXPOSED FLOOR CLEAN-OUT AFTER INSTALLATION.

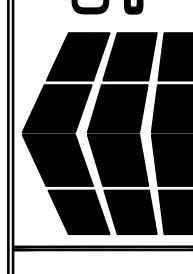




**BLYTHE** REGISTERED ARCHITECT AR94452

RA LEED AP BD+C 1459 SW 74 DR GAINESVILLE, FL. 32607

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03/05/24 - JEM REVISION DATE: / REVISED BY:

PROJECT NUMBER: 4000.249 DRAWING TITLE:

**NOTES & DETAILS** 

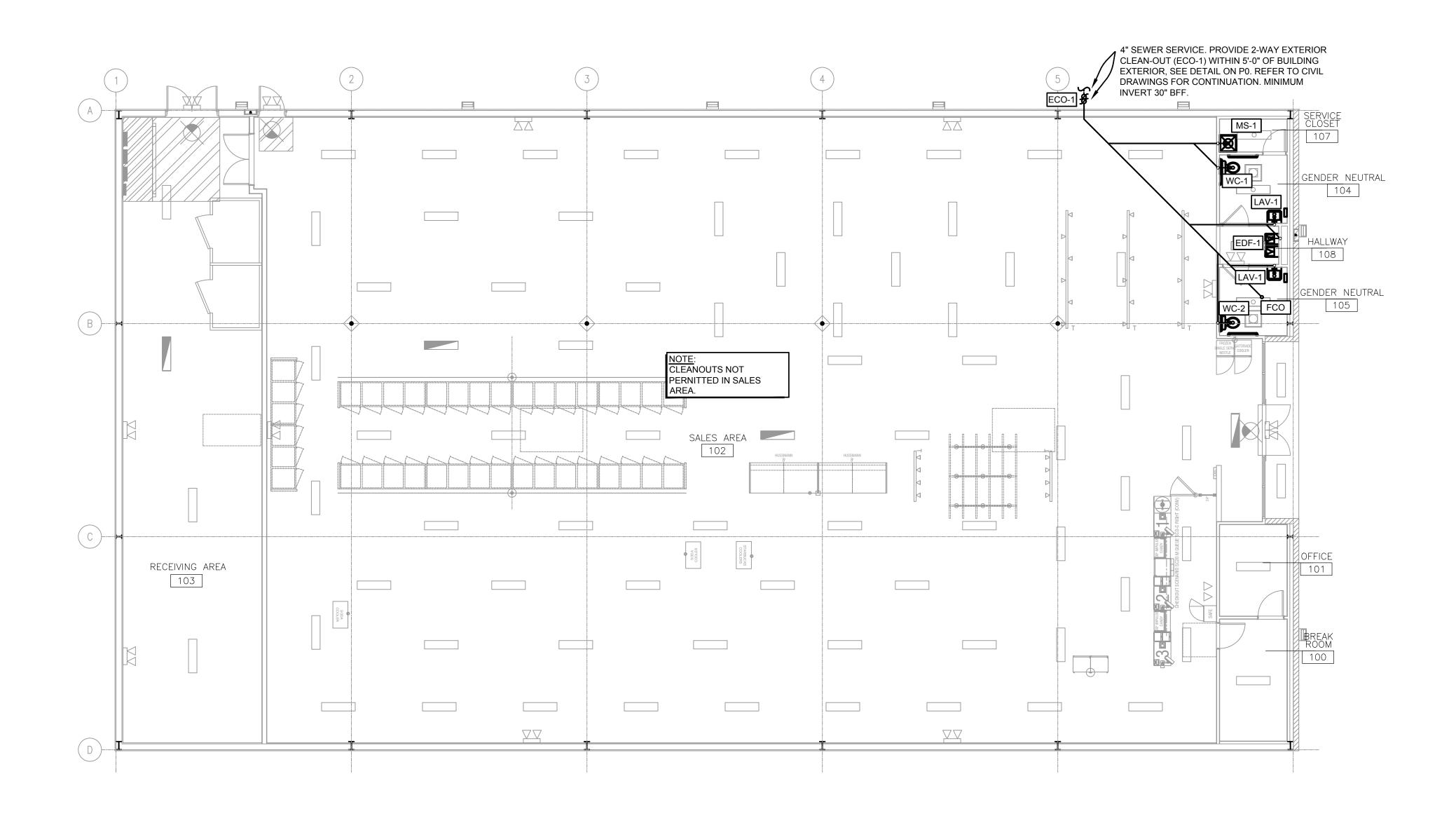
2257 TWELVE OAKS WAY, SUITE 103 WESLEY CHAPEL, FL 33544 PH (813) 991-1248 24-011 REGISTRY # 8397 MATTHEW D. LEWIS, P.E. FL LIC#56189

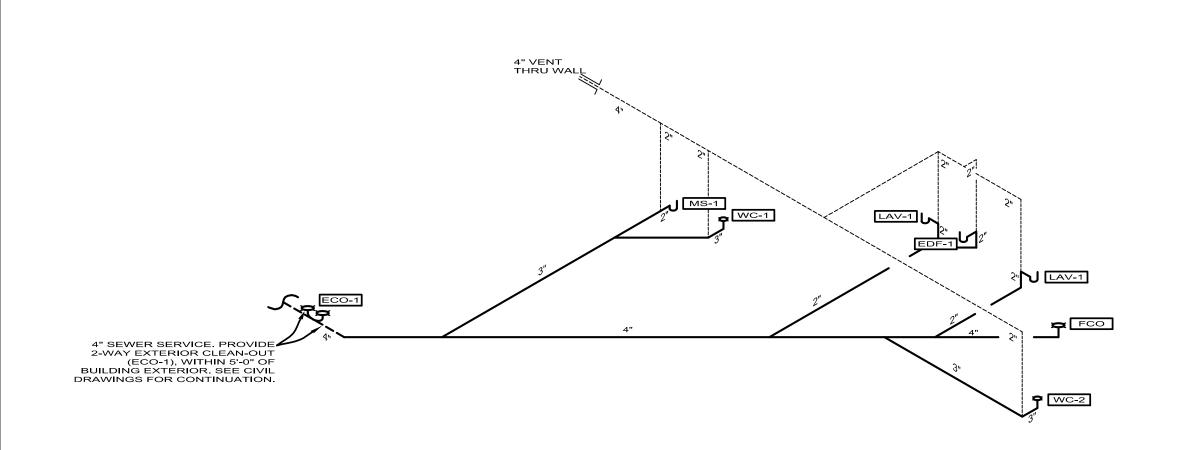
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No 56189

matthew d lewis?

AND ASSOCIATES





SANITARY SEWER NOTES: EWH-1 TO DRAIN INTO MOP SINK (MS-1)
REFER TO SHEET P1 FOR ADDITIONAL INFORMATION.

2 SANITARY & VENT ISO





NOTES:

1. CONTRACTOR RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (WATER, ELECTRIC, SEWER) AS WELL AS INFRASTRUCTURE REQUIRED BY UTILITY COMPANY.

2. PROVIDE WALL MOUNTED CLEAN OUTS AT LAVATORIES.

SANITARY INVERT NOTE:

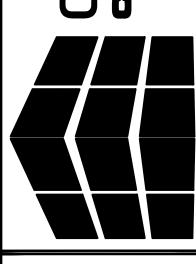
REQUIRED INVERT AT POINT OF CONNECTION (5 FT FROM EXTERIOR WALL) TO EXISTING SEWER SERVICE IS APPROXIMATELY 1'-11" BELOW FINISHED FLOOR BASED ON TOTAL LENGTH OF 35' SLOPED AT 1/8" PER FT AND STARTING INVERT OF 18" BELOW FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY THE INVERT AND LOCATION OF SANITARY LINE AS SHOWN ON CIVIL DRAWINGS.

NOTE:
SANITARY SEWER AND SANITARY VENT PIPE ROUTING ARE DIAGRAMMATIC ONLY, COORDINATE PIPE ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS.

REGISTERED ARCHITECT RA LEED AP BD+C 1459 SW 74 DR GAINESVILLE, FL. 32607 AR94452

JAMES BLYTHE

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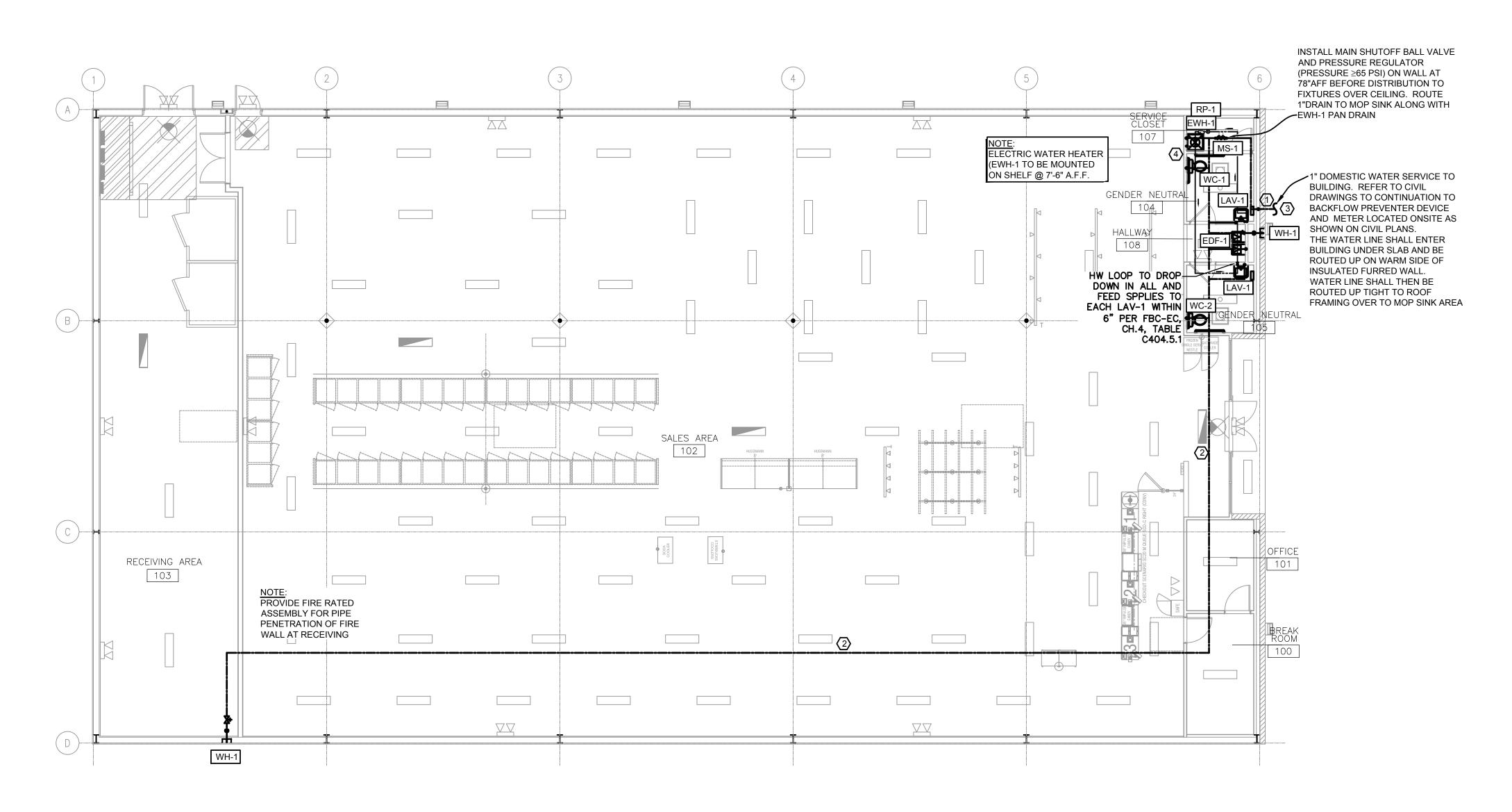
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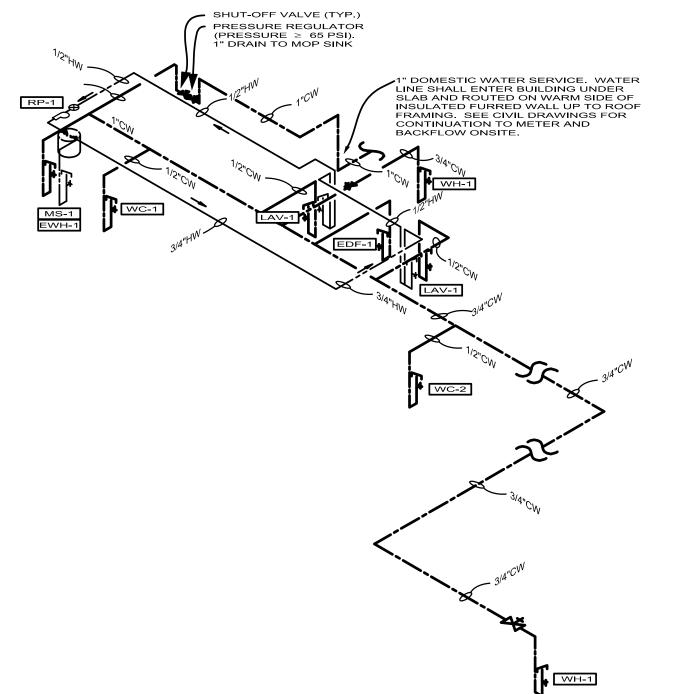
MATTHEW D. LEWIS, P.E. FL LIC#56189

DRAWING DATE: / DRAWN BY 03/05/24 - JEM REVISION DATE: / REVISED BY: PROJECT NUMBER:

> 4000.249 SANITARY PLAN

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED & SEALED BY MATTHEW D. LEWIS, PE USING A DIGITAL SIGNATURE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED AND THE SIGNATURE MUCH BE VERIFIED ON ANY ELECTRONIC COPIES.

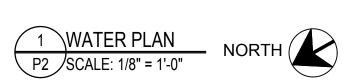




DOMESTIC WATER NOTES:

1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF CONNECTION POINT TO EXISTING DOMESTIC WATER PIPING. PRESSURE REGULATOR TO BE ≥ 65 PSI.

2 DOMESTIC WATER ISO P2 SCALE: N.T.S. 16-WSFU

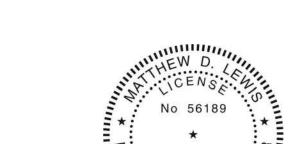


PLUMBING KEYED NOTES:

- 1"CW UP IN WALL WITH VALVE AND LOCKABLE ACCESS PANEL.
- PLUMBING CONTRACTOR TO RUN WATER LINE IN RECEIVING AND SALES AREA AS HIGH AS POSSIBLE OVERHEAD.
- (3) CONTRACTOR TO COORDINATE WATER METER SIZED WITH LOCAL WATER COMPANY AND CIVIL.
- WATER HEATER MOUNTED ABOVE MOP SINK. ROUTE DRAIN PAN DRAIN AND T&P RELIEF VALVE DRAIN FROM WATER HEATER DOWN WALL TO MOP SINK BASIN AND SPILL INTO.

- NOTES:

  1. CONTRACTOR RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (WATER, ELECTRIC, SEWER) AS WALL AS INFRASTRUCTURE REQUIRED BY
- 2. PROVIDE SHUT OFF VALVES AT WALL HYDRANTS AND AT WATER HEATER. 3. PROVIDE P.T. WOOD BLOCKING & STRAPS IN WALLS AS REQUIRED.



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AND ASSOCIATES

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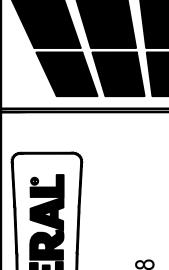
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MATTHEW D. LEWIS, P.E. FL LIC#56189

STATE OF

**JAMES** BLYTHE REGISTERED ARCHITECT RA LEED AP BD+C 1459 SW 74 DR GAINESVILLE, FL. 32607 AR94452

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DRAWING DATE: / DRAWN BY: 03/05/24 - JEM

REVISION DATE: / REVISED BY: PROJECT NUMBER:

4000.249 WATER PLAN