

**ABBREVIATIONS**

3PL	THIRD PARTY LOGISTICS
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
APPROX	APPROXIMATE
BLDG	BUILDING
CBL	COLD BEVERAGE LINE
CLG	CEILING
CONST	CONSTRUCTION
CW	DOMESTIC COLD WATER
CXA	COMMISSIONING AGENT
DEG	DEGREES
DTL	DETAIL
DN	DOWN
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
(E) OR (EX)	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FS	FLOOR SINK
F&I	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
FCO	FLOOR CLEANOUT
FW	FILTERED COLD WATER
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GW	GREASE WASTE
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER
HS	HANDSINK
HWR	HOT WATER RETURN
IW	INDIRECT WASTE
LL	LANDLORD
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PS	PREP SINK
POC	POINT OF CONNECTION
PM	PROJECT MANAGER
REF	REFERENCE
REQ(D)	REQUIRE(D)
REV	REVISION
SAN	SANITARY WASTE
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATION(S)
SST	STAINLESS STEEL
TEL	TELEPHONE
TEMP	TEMPORARY
TYP	TYPICAL
TMV	TEMPERATURE MIXING VALVE
TW	TEMPERED HOT WATER
UNO	UNLESS NOTED OTHERWISE
V	VENT
WH	WATER HEATER
WP	WEATHER PROOF
WCO	WALL CLEANOUT

**PLUMBING SYMBOL LEGEND**

— SAN —	SAN	SANITARY OR WASTE PIPING BELOW SLAB
--- VENT ---	V	VENT PIPING
— GW —	GW	GREASE WASTE
— CBL —	CBL	COLD BEVERAGE LINE
— CD —	CD	CONDENSATE DRAIN
— CW —	CW	COLD WATER PIPING
— HW —	HW	HOT WATER PIPING
— HWR —	HWR	HOT WATER RETURN PIPING
— FW —	FW	COLD WATER FILTERED
— CWN —	CWN	COLD WATER NANO FILTERED
— CWS —	CWS	COLD WATER SOFTENED
— TW —	TW	TEMPERED WATER
— RO —	RO	REVERSE OSMOSIS WATER
— GAS —	GAS	GAS PIPING
— RD —	RD	REFRIGERANT DISCHARGE PIPING
— RS —	RS	REFRIGERANT SUCTION PIPING
	BV	BALL VALVE
	GV	GATE VALVE
	CH.V	CHECK VALVE
	RV	RELIEF VALVE
	HB	HOSE BIBB
		SHOCK ABSORBER
		STRAINER
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	BFP	BACKFLOW PREVENTER
	WM	WATER METER
	POC	CONNECT TO EXISTING

**GENERAL PLUMBING NOTES**

1. EXPOSED/SURFACE MOUNTED PIPING IS ONLY ALLOWED IN THE BAR AREA UNDER COUNTERTOPS, WHERE IT DOES NOT OBSTRUCT CABINETS/DEVICES, AND WHERE APPROVED BY STARBUCKS CONSTRUCTION MANAGER. IF ROUTED THROUGH CABINETS, IT SHALL BE ROUTED TO MAXIMIZE STORAGE SPACE AND BE PROTECTED FROM DAMAGE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES, AND NOTIFY STARBUCKS CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE TAKEN FROM FROM ACTUAL BUILDING DIMENSIONS.
3. THE PLUMBING CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR FIXTURES IN CASEWORK AND PLUMBING DETAILS.

**GENERAL NOTES**

**LEED**  
ALL WORK, MATERIALS AND EQUIPMENT SHALL MEET LEED REQUIREMENTS & CODE. IN CASE OF CONFLICT, THE HIGHER STANDARD SHALL APPLY.

**PIPING**

**SOIL, WASTE, AND VENT PIPING**  
SEE THE PROJECT MANUAL FOR PIPE MATERIALS. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR SINKS, PROVIDE PIPED DRAIN (P-TRAP AND VENT) TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.

**CONDENSATE DRAINAGE PIPING**  
SEE THE PROJECT MANUAL FOR PIPE MATERIALS.

**DOMESTIC COLD WATER & HOT WATER SUPPLY PIPING**  
SEE THE PROJECT MANUAL FOR PIPE MATERIALS.

**DOMESTIC WATER SUPPLY PIPING INSULATION**  
SEE THE PROJECT MANUAL FOR INSULATION MATERIALS.

**TESTING**  
ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.

**NITROGENATION**

STARBUCKS NITROGENATION VENDOR WILL PROVIDE AND INSTALL EQUIPMENT AND FITTINGS, IF APPLICABLE, TO PROJECT SCOPE FOR NITRO STATION. GENERAL CONTRACTOR SHALL COORDINATE NITRO SYSTEM INSTALLATION WITH STARBUCKS VENDOR.

**PLUMBING FIXTURES**

**WATER FILTRATION**  
STARBUCKS WATER FILTRATION VENDOR WILL FURNISH FILTRATION SYSTEM. GENERAL CONTRACTOR SHALL CONFIRM WITH STARBUCKS CONSTRUCTION MANAGER WHETHER VENDOR OR PLUMBING CONTRACTOR SHALL INSTALL FILTRATION SYSTEM.

**CONNECTIONS**  
THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT INCLUDING REQUIRED MATERIAL SUCH AS PIPING, VALVES, FILTERS, TRAPS, CHECKS VALVES, VACUUM BREAKERS, AND FLEXIBLE AND RIGID TUBING.

PROVIDE AND COORDINATE LINE VOLTAGE WIRING, LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR MECHANICAL SYSTEMS, AND LOW VOLTAGE CONTROL WIRING. FURNISH WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION. COORDINATE ACTUAL WIRE SIZING AMPS FOR PLUMBING EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) WITH THE ELECTRICAL CONTRACTOR TO ENSURE PROPER INSTALLATION.

**LANDLORD REQUIREMENTS**

**PRIOR TO BID**  
THE CONTRACTOR SHALL COORDINATE WITH LANDLORD / BUILDING OWNER FOR ANY CONSTRUCTION REQUIREMENTS. IF LANDLORD / BUILDING OWNER DOES HAVE REQUIREMENTS, CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH REQUIREMENTS AND ADHERE TO THEM. WHERE LANDLORD / BUILDING OWNER REQUIREMENTS ARE MORE STRINGENT THAN SHOWN IN THESE PLANS (IN THE OPINION OF THE ENGINEER), LANDLORD / BUILDING OWNER REQUIREMENTS SHALL GOVERN.

**PLUMBING SCOPE OF WORK SUMMARY**

THE FOLLOWING SCOPE OF WORK IS BASED ON THE LANDLORD'S WORKLETTER EXHIBIT C. THIS SCOPE OF WORK IS NOT INTENDED TO INDICATE THE FULL SCOPE, BUT ONLY A BROAD SUMMARY. THE GENERAL CONTRACTOR SHALL REFERENCE THE COMPLETE WORKLETTER FOR A MORE DETAILED DESCRIPTION OF WORK BY BOTH PARTIES. ANY QUESTIONS REGARDING SCOPE SHALL BE BROUGHT TO STARBUCKS ATTENTION FOR CLARIFICATION. RESPONSIBILITY INDICATED BELOW MEANS FURNISHED, PERMITTED AND INSTALLED BY THE PARTY INDICATED.

WORK DESCRIPTION	RESPONSIBILITY	
	LANDLORD	STARBUCKS
WATER SERVICE AND METER	X	
BOOSTER PUMP FOR WATER SERVICE	X	
BELOW FLOOR / SLAB WASTE, VENT AND WATER PIPES	X	X
ABOVE FLOOR / SLAB WASTE, VENT AND WATER PIPES		X
PLUMBING VENT(S) THROUGH ROOF	X	X
EXTERIOR HOSE BIBB(S)	X	
BASE COVERAGE SPRINKLER SYSTEM	N/A	
SPRINKLER SYSTEM MODIFICATIONS FOR TENANT BUILDOUT	N/A	
INTERIOR GREASE INTERCEPTOR	N/A	
EXTERIOR GREASE INTERCEPTOR	X	

Reviewed for Code Compliance  
Building  
  
Samuel C. Acosta

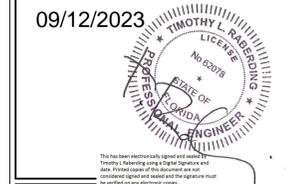


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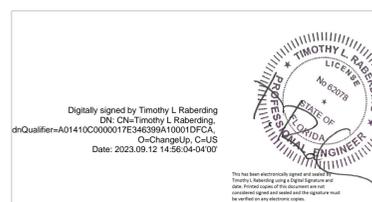
STORE #: 78366  
PROJECT #: 97107-001  
ISSUE DATE: 09/06/2023  
DESIGN MANAGER: RAI MONTERO  
PRODUCTION DESIGNER: ANDY M CLOUD  
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**PLUMBING NOTES**

SCALE: AS INDICATED

SHEET NUMBER:  
**P-001**



**BLD202323715**

**GENERAL NOTES:**

- A. FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN.
- B. PLUMBING CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL SCOPE OF WORK.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL PLUMBING EQUIPMENT.
- D. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- E. REFER TO DETAIL SHEETS FOR PLUMBING FITTINGS LOCATED IN CASEWORK.
- F. COLD WATER SUPPLY LINES INSIDE CASEWORK AND BAR AREA TO BE COVERED WITH 1/2" THICK SELF SEALING, SECTIONAL CLOSED-CELL FOAM INSULATION. REFER TO SHEET P002 FOR HOT WATER SUPPLY LINE INSULATION REQUIREMENTS.
- G. CONTRACTOR SHALL CONTACT WATER FILTER SUPPLIER 10 DAYS (MINIMUM) BEFORE THE TIME THAT THE FILTER SYSTEM IS TO BE STARTED UP.

**KEYED NOTES:**

1. PIPE 3/4" COLD SOFTENED WATER TO WATER HEATER. PIPE 2" HOT WATER FROM WATER HEATER. WATER HEATER AS SPECIFIED ON SHEET P601. REFER TO WATER HEATER DETAIL ON SHEET P501.
2. 1/2" HOT WATER AND 1/2" COLD WATER TO FAUCET WITH INTEGRAL ASSE 1001 ATMOSPHERIC VACUUM BREAKER AT MOP SINK. CAULK AND SEAL BACK OF SINK TO WALL.
3. (2) 3/4" CITY COLD WATER WITH ASSE 1022 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT TO FILTRATION EQUIPMENT WITH 3/4" FILTERED WATER AND 3/4" COLD SOFTENED WATER OUT. PLUMBING CONTRACTOR TO FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ACTIVATION PROCEDURES FOR BOTH SYSTEMS. REFER TO FILTER CONNECTION DETAIL ON SHEET P501.
4. 1/2" HOT WATER AND 1/2" COLD WATER TO FAUCET AND SPRAY AT THREE COMPARTMENT SINK. PROVIDE ASSE 1052 HOSE BIB VACUUM BREAKER ON TAP FOR SANITIZING SYSTEM HOSE. CAULK AND SEAL BACK OF SINK TO WALL.
5. 1/2" COLD SOFTENED WATER WITH INTEGRAL ASSE 1001 ATMOSPHERIC VACUUM BREAKER TO DISHWASHER. INSTALL SHUT-OFF WITH 3/4" MALE HOSE-END FITTING @ 18" AFF UNDER COMPARTMENT SINK. SHUT-OFF TO INCLUDE PRESSURE REDUCING VALVE, PRESSURE GAUGE (SET @ 20 PSIG, " OR - 5 PSIG), LINE STRAINER, AND SHOCK ARRESTOR IN WALL. CONNECT SANITIZER TO CSW SUPPLY WITH 72" LONG BRAIDED STAINLESS STEEL HOSE.
6. 1/2" FILTERED WATER WITH ASSE 1022 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT TO ICE MACHINE. REDUCE TO 3/8" AT MACHINE.
7. 1/2" HOT WATER AND 1/2" COLD WATER TO ASSE 1070 THERMOSTATIC MIXING VALVE. 3/8" TEMPERED WATER FROM THERMOSTATIC MIXING VALVE TO FAUCET AT HAND SINK. SET THERMOSTATIC MIXING VALVE TO DELIVER 100°F TEMPERED WATER.
8. 1/2" FILTERED WATER TO COFFEE/TEA BREWER WITH ASSE 1022 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT. INSTALL SHUT-OFF IN CABINET @ 24" AFF REDUCE TO 3/8" AT UNIT.
9. 1/2" FILTERED WATER TO ESPRESSO MACHINE PUMP. CONNECT 3/8" COMPRESSION BRAIDED STAINLESS STEEL HOSE FROM SHUT-OFF TO ESPRESSO MACHINE WATER INLET. SEE DETAIL PROVIDED ON SHEET P501.
10. 1/2" COLD WATER TO DIPPERWELL FAUCET. REDUCE TO 1/4" AT UNIT.
11. 1/2" FILTERED WATER TO INSTAHOT TAP. REDUCE TO 1/4" AT UNIT.
12. 1/2" FILTERED WATER TO WATER TOWER FAUCET LOCATED IN WATER STATION.
13. 1/2" COLD WATER TO TOILET. PROVIDE WATER HAMMER ARRESTOR IN SUPPLY LINE. SEE DETAILS ON SHEET P501.
14. 3/4" FILTERED WATER AND 3/4" COLD WATER DOWN IN WALL TO BELOW SLAB. PROVIDE 1/2" ELASTOMETRIC INSULATION ON PIPING BELOW SLAB AND EXTEND 2" ABOVE FINISHED FLOOR. VERIFY ROUTING IN FIELD WITH GC PRIOR TO INSTALLATION.
15. 1/2" HOT WATER WITH ASSE 1012 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT AND 1/2" COLD WATER WITH ASSE 1022 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT TO SINK.
16. CONNECT TO EXISTING 1-1/2 DOMESTIC WATER SERVICE TO LEASE SPACE. VERIFY EXACT SIZE, LOCATION, PRESSURE AND REQUIREMENTS ON SITE.
17. 1/2" COLD WATER WITH ASSE 1022 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT TO PITCHER RINSER.
18. ROUTE 3/4" FILTERED WATER AND 3/4" COLD WATER BELOW COUNTER TOP LEVEL THROUGH CABINETS. REFER TO NOTES 9, 10, 11, 17, AND 25. VERIFY ROUTING IN FIELD WITH GC PRIOR TO INSTALLATION.
19. EXISTING HOSE BIB TO REMAIN.
20. BOOSTER PUMP IF REQUIRED BY LANDLORD UNDER A SEPARATE PERMIT. FIELD VERIFY LOCATION AND ALL REQUIREMENTS.
21. 1/2" HOT WATER AND 1/2" COLD WATER TO ASSE 1070 THERMOSTATIC MIXING VALVE. REDUCE HOT WATER AND COLD WATER LINES TO 3/8" AT THERMOSTATIC MIXING VALVE. 3/8" TEMPERED WATER FROM THERMOSTATIC MIXING VALVE TO METERED FAUCET AT LAVATORY. SET THERMOSTATIC MIXING VALVE TO DELIVER 100°F TEMPERED WATER.
22. 1/2" NITROGEN GAS LINE FROM NITROGEN GENERATOR TO NITRO WORKSTATION. FINAL CONNECTION BY STARBUCKS VENDOR.
23. 3/4" HOT WATER RETURN TO HOT WATER RECIRC PUMP. SEE DETAIL SHEET P501.
24. 1/2" COLD WATER WITH ASSE 1022 DOUBLE CHECK VALVE WITH ATMOSPHERIC VENT TO FAUCET AT SINK.
25. COLD AND FILTER WATER TO BE STUBBED BELOW COUNTER TOP LEVEL FOR FUTURE CONNECTION OF PLUMBING EQUIPMENT. REFER TO NOTES 9, 10, 11, 12, 14, 17, 18 FOR ALL RELATED INFORMATION.



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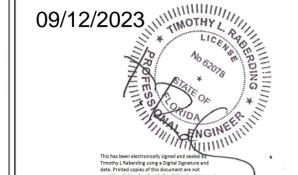
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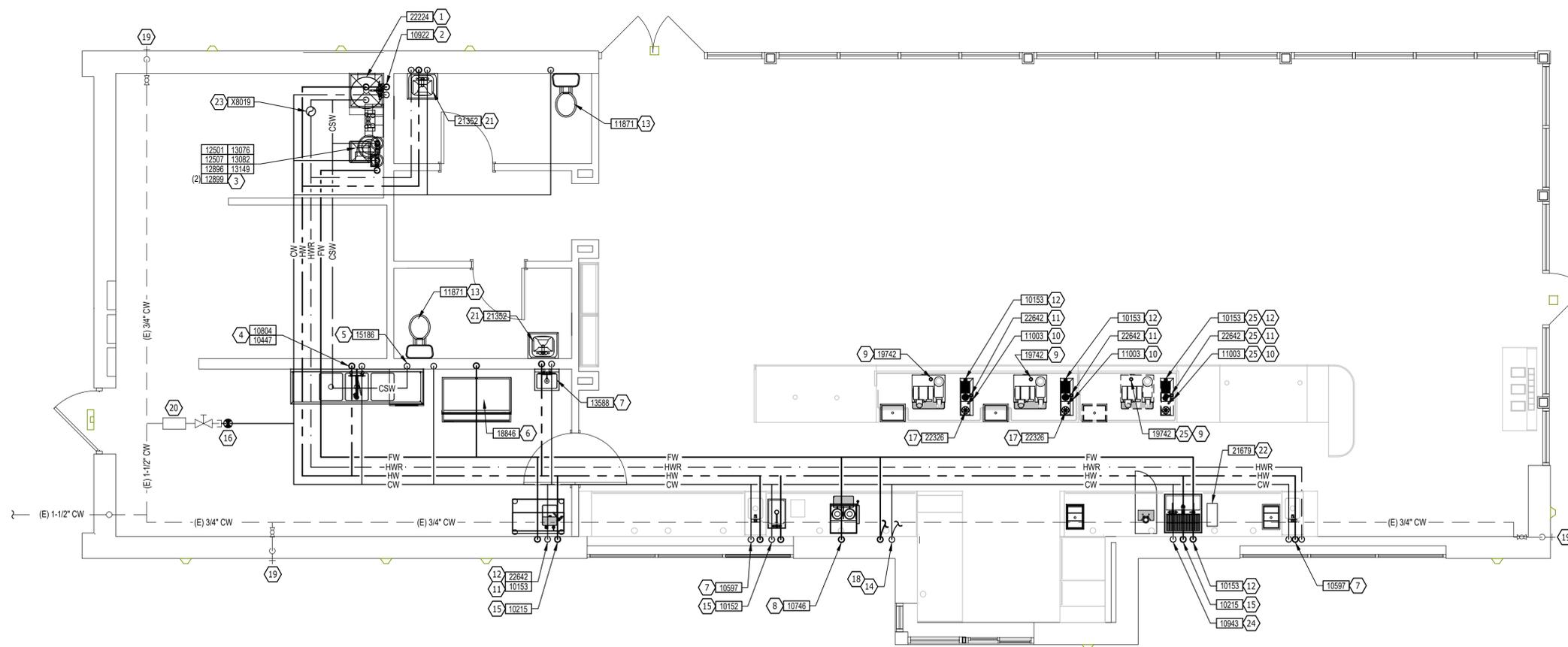
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PRODUCTION DESIGNER: ANDY MCLLOUD  
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**PLUMBING SUPPLY PLAN**

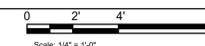
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**P-111**



**DOMESTIC WATER PLAN**

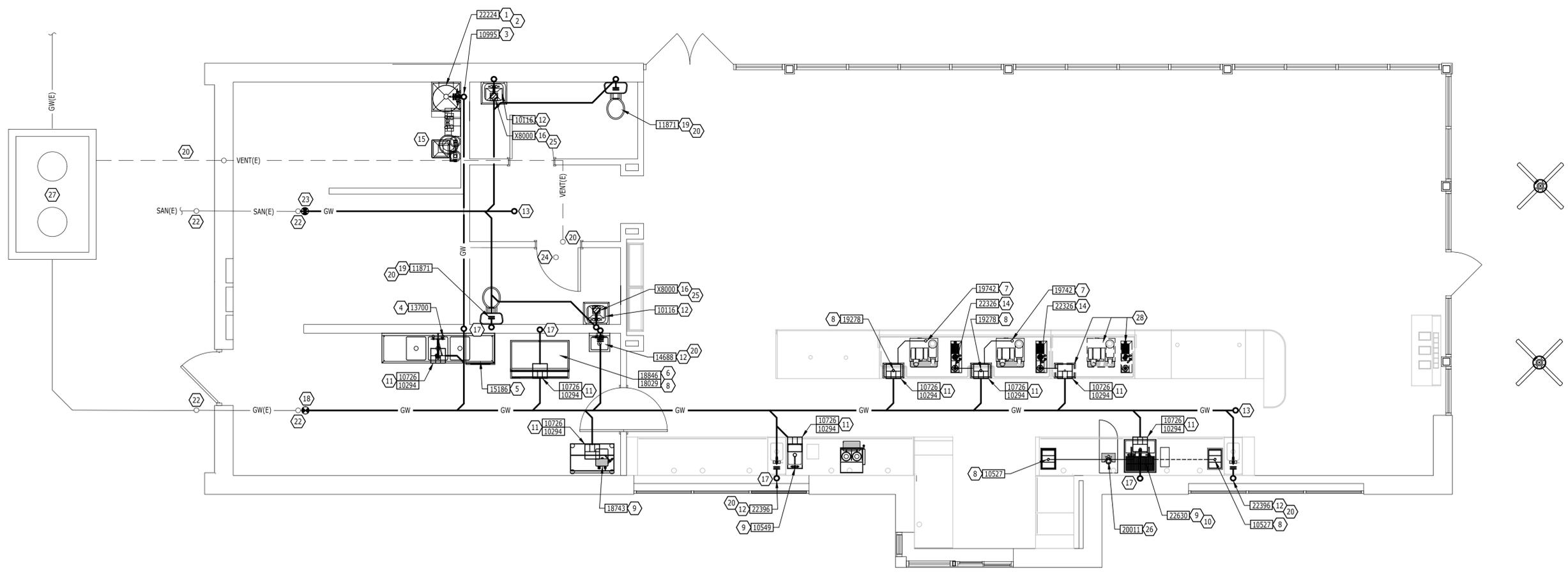
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**BLD202323715**

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- FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN.
  - FOR FULL SCHEDULES AND COMPLETE LISTING SEE ARCHITECTURAL SCHEDULES. CONFIRM ALL QUANTITIES WITH PLAN.
  - PLUMBING CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL SCOPE OF WORK.
  - COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTOR FOR POWER CONNECTION TO ALL PLUMBING EQUIPMENT.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
  - ALL INDIRECT DRAIN LINES SHALL BE ROUTED WITHOUT DIPS OR SAGS TO TERMINATE WITH AN AIR GAP INTO AN APPROVED INDIRECT WASTE RECEPTOR.
  - REFER TO DETAILS FOR FURTHER REQUIREMENTS.
  - LOCATIONS OF EXISTING PIPING AND FIXTURES ARE APPROXIMATE. VERIFY LOCATION IN FIELD.

- KEYED NOTES:**
- 3/4" PRESSURE RELIEF FROM WATER HEATER TO MOP SINK.
  - 1" INDIRECT DRAIN FROM WATER HEATER DRIP PAN TO MOP SINK.
  - 3" WASTE FROM MOP SINK.
  - 2" INDIRECT DRAIN FROM EACH THREE COMPARTMENT SINK BASIN TO FLOOR SINK.
  - 1-1/4" INDIRECT DRAIN FROM DISHWASHER TO FUNNEL OVER FLOOR SINK IF PERMITTED.
  - 3/4" I.D. F.P.T. FROM DRAIN ON ICE MACHINE TO INDIRECT DRAIN AT FLOOR SINK.
  - 5/8" DRAIN HOSE TO INDIRECT DRAIN RISER. SEE DETAIL ON SHEET P501.
  - 1" INDIRECT INSULATED DRAIN LINE FROM ICE BIN DROP TO FLOOR SINK.
  - 1-1/2" INDIRECT DRAIN FROM SINK TO FLOOR SINK.
  - 3/4" INDIRECT DRAIN FROM WATER STATION DRAIN BOARD TO FLOOR SINK.
  - 3" WASTE FROM FLOOR SINK.
  - 2" WASTE FROM SINK.
  - FLOOR CLEAN OUT MATCH TO DRAIN LINE SIZE.
  - 1-1/2" INDIRECT DRAIN FROM PITCHER RINSER TO FLOOR SINK.
  - 3/4" INDIRECT DRAIN FROM WATER EQUIPMENT TO MOP SINK.
  - 3" WASTE FROM FLOOR DRAIN.
  - 2" VENT PIPE.
  - CONNECT TO EXISTING GREASE WASTE BUILDING DRAIN.
  - 3" WASTE FROM WATER CLOSET.
  - WALL CLEAN OUT TO MATCH DRAIN SIZE.
  - EXISTING 3" VENT THROUGH ROOF FROM GREASE INTERCEPTOR.
  - EXISTING CLEAN OUT AT GRADE TO REMAIN WITHOUT MODIFICATION.
  - CONNECT TO EXISTING SANITARY BUILDING DRAIN.
  - EXISTING 4" VENT THROUGH ROOF.
  - 1/2" CW FROM TRAP PRIMER TO FLOOR DRAIN TRAP. SEE SHEET P-111 FOR LOCATION. SEE DETAIL, SHEET P-501.
  - 1/2" INDIRECT DRAIN FROM NITRO STATION TO FLOOR SINK.
  - EXISTING 1,250 GALLON GREASE INTERCEPTOR BY LANDLORD UNDER A SEPARATE PERMIT.
  - FUTURE SINK, ESPRESSO MACHINE, AND ICE BIN PLUMBING FIXTURES. THESE FIXTURES ARE SHOWN FOR REFERENCE ONLY.



**PLUMBING WASTE PLAN**  
SCALE = 1/4" = 1'-0"

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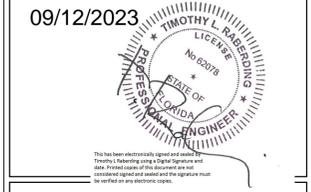


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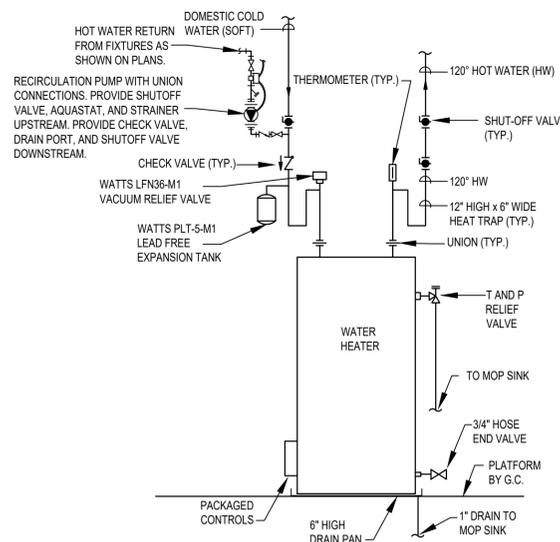
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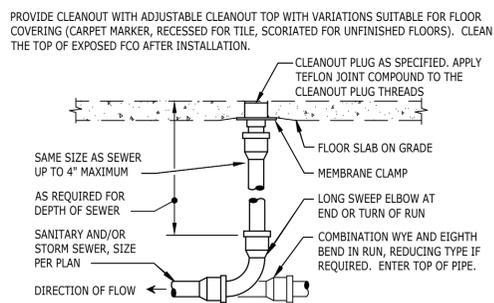




**1 ELECTRIC WATER HEATER**  
N.T.S.

**HOT WATER HEATER NOTES:**

- RECIRCULATION PUMP:** BELL & GOSSETT #NBF-35 WET ROTOR TYPE IN-LINE 3-SPEED PUMP WITH 3300RPM MOTOR, LEAD FREE BRONZE BODY WITH FULL UNION CONNECTIONS, CAPACITY OF 15 GPM AT 15 FEET OF HEAD. PROVIDE WITH BELL & GOSSETT AQ5-3/4 SURFACE MOUNTED AQUASTAT WITH SINGLE POLE DOUBLE THROW SWITCH FOR RECIRCULATOR CONTROL. SET AQUASTAT TO SHUT "OFF" (OPEN) RECIRCULATION PUMP AT WATER HEATER SET POINT AND "ON" (CLOSED) AT 10°F BELOW SET POINT. ELECTRICAL REQUIREMENTS: 120 VOLT, 2.25 FULL LOAD AMPS.
- TIME SWITCH:** BELL & GOSSETT TC-1, 7 DAY, ONE CIRCUIT, SINGLE POLE SINGLE THROW, ELECTRONIC TIME SWITCH OR EQUAL. TIME SWITCH SHALL BE MOTOR RATED (1 HP @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK-UP. COORDINATE WITH GC FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH AQUASTAT AND RECIRCULATION PUMP. SET TIME SWITCH "ON" TO ONE HOUR BEFORE STORE OPENING AND "OFF" TO ONE HOUR AFTER STORE CLOSING. VERIFY STORE OPERATING HOURS WITH STARBUCKS CM.



**2 FLOOR CLEANOUT**  
N.T.S.

PROVIDE CLEANOUT WITH ADJUSTABLE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.

CLEANOUT PLUG AS SPECIFIED. APPLY TEFLON JOINT COMPOUND TO THE CLEANOUT PLUG THREADS.

FLOOR SLAB ON GRADE

MEMBRANE CLAMP

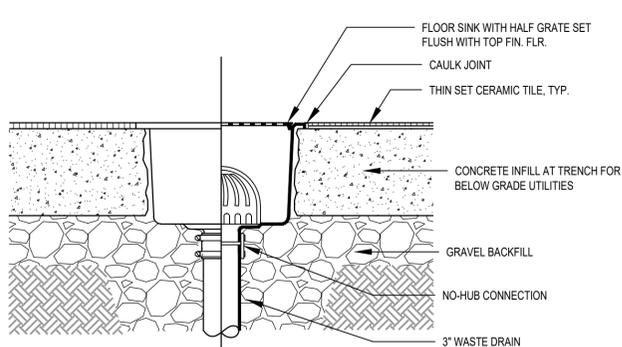
LONG SWEEP ELBOW AT END OR TURN OF RUN

SANITARY AND/OR STORM SEWER, SIZE PER PLAN

COMBINATION WYE AND EIGHTH BEND IN RUN, REDUCING TYPE IF REQUIRED. ENTER TOP OF PIPE.

DIRECTION OF FLOW

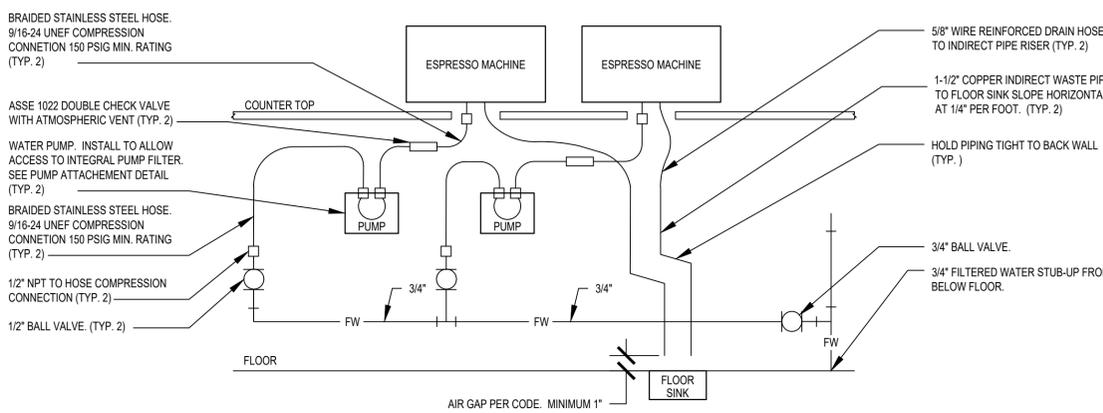
REFER TO SPECIFICATIONS AND SCHEDULE FOR MORE INFORMATION. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45°, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS AND RISERS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUT WHERE THERE IS 18" CLEAR AROUND, FOR ACCESSIBILITY. CONSULT LOCAL CODES AND OFFICIALS FOR OTHER REQUIREMENTS.



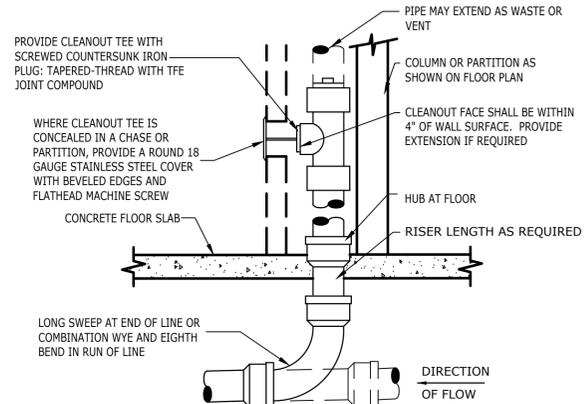
**3 FLOOR SINK DETAIL**  
N.T.S.

**ESPRESSO MACHINE DETAIL NOTES:**

- THIS DETAIL IS SCHEMATIC ONLY. FOR THE LOCATION OF THE COMPONENTS SHOWN, AND EXTENT OF THE WORK REQUIRED, SEE THE PLAN DRAWINGS.
- ALL WATER HOSE SHALL BE THE MINIMUM LENGTH NEEDED AND SUPPORTED AS REQUIRED TO AVOID STRESSING CONNECTIONS AND COILING EXCESSIVE HOSE. ROUTE TO AVOID KINKING AND ALLOW SPACE FOR UNDER COUNTER REFRIGERATOR AND ACCESS TO EQUIPMENT AND VALVES.
- ALL PIPING SHALL BE HELD TIGHT TO WALLS SLOPED WHERE REQUIRED AND ROUTED TO ALLOW ACCESS TO EQUIPMENT AND VALVES.
- ROUTE HORIZONTAL PIPING A MINIMUM OF 6" ABOVE FLOOR.
- INSTALL PUMP AS SHOWN ON PLANS. COORDINATE LOCATION AND ELEVATION WITH OTHER TRADES. ORIENT PUMP AS REQUIRED TO ALLOW MAINTENANCE.



**5 ESPRESSO MACHINE GENERAL PIPING CONNECTION SCHEMATIC**  
N.T.S.

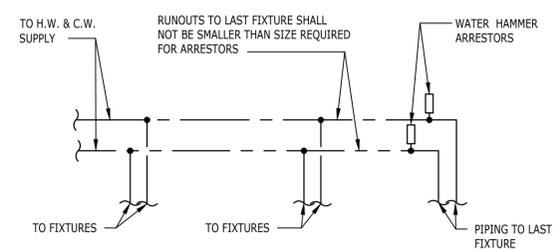


**4 WALL CLEANOUT**  
N.T.S.

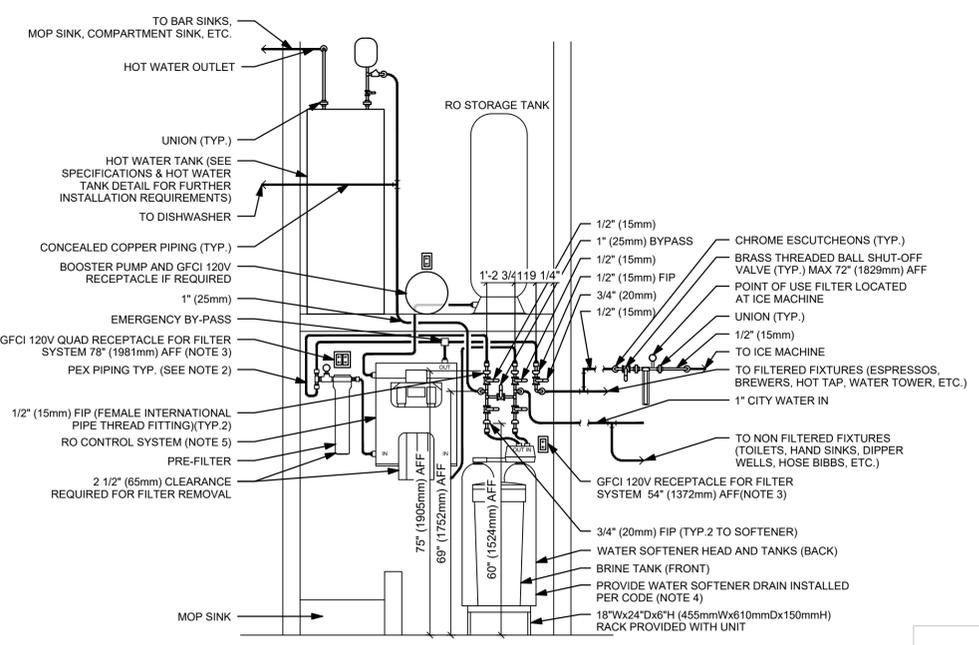
PROVIDE WALL CLEANOUT AT BASE OF ALL RAIN-LEADER DOWNSPOUTS. PROVIDE WALL CLEANOUT WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WALL CLEANOUT REQUIREMENTS.

WATER HAMMER ARRESTOR SIZING CHART		
FIXTURE UNIT RATING	PDI SIZE	CONNECTION TO SUPPLY LINE
1-11	A	3/4"
12-32	B	1"
33-60	C	1"
61-113	D	1 1/4"
114-154	E	1 1/2"
155-330	F	2"

REFERENCE PDI-WH-201.



**6 WATER HAMMER ARRESTOR**  
N.T.S.



**NOTES:**

- ALL COMPONENTS DRAWN IN BOLD ARE GC RESPONSIBILITY. GC TO COORDINATE INSTALLATION OF ALL OTHER COMPONENTS SHOWN WITH FILTER VENDOR.
- ALL PIPING SHALL BE COPPER EXCEPT PEX TYPE PIPING IS ACCEPTABLE BETWEEN FILTER SYSTEM COMPONENTS WHERE ALLOWED BY CODE.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR RECEPTACLES.
- PROVIDE WATER SOFTENER INDIRECT DRAIN TO SINK, INSTALLED PER CODE. (CONFIRM REQUIREMENTS WITH SOFTENER EQUIPMENT CUTSHEETS IN ITEM SPECIFICATIONS).
- PROVIDE RO INDIRECT DRAIN TO SINK INSTALLED PER CODE. (CONFIRM REQUIREMENTS WITH RO EQUIPMENT CUTSHEET IN ITEM SPECIFICATIONS).
- IN MUNICIPALITIES WITH BRINE RESTRICTIONS, REFER TO THE WATER SYSTEM CONFIGURATIONS APPENDIX UNDER ITEM SPECIFICATIONS FOR WATER SOFTENER EXCHANGE TANK SCHEMATIC.
- COMPONENTS ARE TO BE POSITIONED TO MAXIMIZE ACCESS FOR REGULAR SERVICING. PRE-FILTER, BYPASS VALVES, AND SOFTENER TANKS MUST BE INSTALLED 72" (1828MM) AFF OR LOWER.

**7 TYPE 3 WATER TREATMENT SYSTEM**  
N.T.S.

BLD202323715

FOR CONSTRUCTION



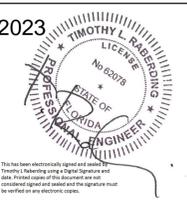
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09/12/2023



PROJECT NAME:  
**LECANTO HWY & NORVELL BRYANT**

PROJECT ADDRESS:  
**3159 W NORVELL BRYANT HWY  
LECANTO, FL 34461**

STORE #: 78366  
PROJECT #: 97107-001  
ISSUE DATE: 09/06/2023  
DESIGN MANAGER: RAI MONTERO  
PRODUCTION DESIGNER: ANDY MCLOUD  
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**PLUMBING DETAILS**

SCALE: AS INDICATED

SHEET NUMBER:  
**P-501**

WASTE & WATER SERVICE CALCULATIONS:

EQUIPMENT	WASTE			COLD			HOT		
	QTY	F.U.	TOT.	F.U.	TOT.	F.U.	TOT.		
THREE COMPARTMENT SINK	1	-	-	2.25	2.25	2.25	2.25		
MOP SINK	1	2	2	2.25	2.25	2.25	2.25		
HAND SINK	3	1	3	0.5	1.5	0.5	1.5		
EMERGENCY FLOOR DRAIN	2	-	-	-	-	-	-		
FLOOR DRAIN	-	2	-	-	-	-	-		
FLOOR SINK	8	5	40	-	-	-	-		
ICE MACHINE	1	-	-	0.5	0.5	-	-		
KITCHEN SINK	3	-	-	3	3	9	9		
WATER CLOSET	2	4	8	5	10	-	-		
URINAL	-	4	-	5	-	-	-		
LAVATORY	2	1	2	1.5	3	1.5	3		
ESPRESSO MACHINE	1	-	-	1	3	-	-		
COFFEE BREWER	3	-	-	1	1	-	-		
WAREWASHER	1	-	-	6	6	-	-		
BEVERAGE STATION	-	-	-	1	3	-	-		
PITCHER RINSER	3	-	-	3	9	-	-		
TOTAL				55	47.5		18		

ELECTRIC WATER HEATER

TAG	22224
GALLON CAPACITY	50
VOLTAGE/PHASE	208/3
UPPER/LOWER WATTAGE	4500/4500/4500
NO. OF ELEMENTS	3 (SIMULTANEOUS)
GPH RECOVERY @ 100°	56
MANUFACTURER	BRADFORD WHITE
MODEL	E32-50S-3

NEW EQUIPMENT & PLUMBING FIXTURE SCHEDULE

DESIGN ID	COUNT	DESCRIPTION	RESP.	SERVES	W	IW	V	CW	CSW	FW	HW	TW	COMMENTS
<b>DRAIN</b>													
10294	8	DRAIN - FLOOR SINK SQUARE - 12IN 305MM	SB-GC	-	3"	-	2"	-	-	-	-	-	
10726	8	DRAIN - GRATE HALF SQUARE - 12IN 305MM	SB-GC	-	-	-	-	-	-	-	-	-	
X8000	2	FLOOR DRAIN - 6" ROUND	GC-GC	RESTROOMS	3"	-	2"	-	-	-	-	-	JAY R SMITH 2005-K06CP
<b>FAUCET</b>													
10152	1	FAUCET - DOUBLE LABORATORY WITH BENT RISER SPOUT	SB-GC	10549	-	-	-	1/2"	-	-	1/2"	-	2.2GPM
10153	4	FAUCET - WATER TOWER - 12IN 305MM	SB-GC	18743, 22326, 22630	-	-	-	-	-	1/2"	-	-	
10215	2	FAUCET - DOUBLE LABORATORY WITH SWING SPOUT	SB-GC	18743, 22630	-	-	-	1/2"	-	-	1/2"	-	2.2GPM
10447	1	FAUCET - PRE RINSE SPRAYER WALL MOUNTED	SB-GC	13264	-	-	-	-	-	-	1/2"	-	1.2GPM
10597	2	FAUCET - SINGLE HANDLE	SB-GC	22396	-	-	-	1/2"	-	-	-	1/2"	0.5GPM AERATOR
21352	2	FAUCET - SINGLE HANDLE - METERED MOTION SENSOR	SB-GC	10116	-	-	-	1/2"	-	-	-	1/2"	0.5GPC METERED
10804	1	FAUCET - PRE RINSE SWING SPOUT	SB-GC	13264	-	-	-	1/2"	-	-	1/2"	-	1.2GPM
10874	1	FAUCET - HOT WATER DISPENSER GOOSENECK	SB-GC	18743	-	-	-	-	-	1/2"	-	-	
22642	3	FAUCET - HOT WATER DISPENSER WITH POINT-OF-USE WATER HEATER	SB-GC	22326, 18743	-	-	-	-	-	1/2"	-	-	1.5KW INPUT; 6.1GPH @ 90°F RISE
10922	1	FAUCET - MOP SINK WALL MOUNTED	SB-GC	10995	-	-	-	1/2"	-	-	1/2"	-	
11003	3	FAUCET - DIPPERWELL	SB-GC	22326	-	-	-	1/2"	-	-	-	-	0.5GPM METERED
13588	1	FAUCET - HAND SINK WALL MOUNTED	SB-GC	14688	-	-	-	1/2"	-	-	-	1/2"	0.5GPM AERATOR
10943	1	FAUCET - SINGLE LABORATORY WITH SWING SPOUT	SB-GC	22630	-	-	-	1/2"	-	-	-	-	2.2GPM
<b>SINK</b>													
10116	2	SINK - RESTROOM WALL MOUNTED	SB-GC	21352	2"	-	1 1/2"	-	-	-	-	-	
10549	1	SINK - RINSE DROP IN SST - 12X20IN 305X510MM	SB-GC	10152	-	1 1/2"	-	-	-	-	-	-	
10995	1	SINK - MOP - 24X24IN 610X610MM	SB-GC	10922	3"	-	2"	-	-	-	-	-	
13264	1	SINK - 3 COMP WORK SST - 93IN	SB-GC	10447, 10804	-	2"	-	-	-	-	-	-	ELKAY
14688	1	SINK - HAND WALL MOUNTED WITH SIDE SPLASH SST	SB-GC	13588	2"	-	1 1/2"	-	-	-	-	-	
18743	1	PREP STATION SINK	SB-GC	22642, 10153, 10215	-	1-1/2"	1-1/2"	-	-	-	-	-	
22326	2	SINK - RINSE 29X7IN WITH INTEGRAL PITCHER RINSER	SB-GC	10153, 11003, 22642	-	1-1/2"	-	1/2"	-	-	-	-	
22630	1	SINK - RINSE DROP IN - 27X26IN 685X670MM	SB-GC	10943, 10215, 10153	-	1 1/2"	-	-	-	-	-	-	
<b>TOILET</b>													
11871	2	TOILET - TANK EFFICIENT SINGLE FLUSH	GC-GC	-	3"	-	2"	1/2"	-	-	-	-	PROFLO PF1601PAWH 1.0GPF PRESSURE ASSIST
<b>FILTER</b>													
12501	1	FILTER - RO SYSTEM 600GPD	SB-GC	-	-	-	-	-	-	-	-	-	PENTAIR
12507	1	FILTER - RO SYSTEM 40GAL STORAGE TANK	SB-GC	-	-	-	-	-	-	-	-	-	PENTAIR
12896	1	FILTER - BRINE TANK	SB-GC	-	-	-	-	-	-	-	-	-	PENTAIR
12899	2	FILTER - POLY GLASS VESSEL	SB-GC	-	-	-	-	-	-	-	-	-	PENTAIR
13076	1	FILTER - PREFILTRATION SYSTEM	SB-GC	-	-	-	-	-	-	-	-	-	PENTAIR
13082	1	FILTER - WATER SOFTENER TWIN	SB-GC	-	-	-	-	-	-	-	-	-	PENTAIR
<b>WATER HEATER</b>													
22224	1	WATER HEATER 50GAL ELECTRIC	GC-GC	-	-	3/4"	-	-	-	3/4"	-	1-1/2"	BRADFORD WHITE E32-50S-3 13.5KW
<b>EQUIPMENT</b>													
10746	1	BREWER DUAL SOFT HEAT	SB-GC	-	-	-	-	-	-	1/2"	-	-	
15186	1	DISHWASHER SANITIZER	SB-GC	-	-	3/4"	-	-	-	1/2"	-	-	
19742	2	ESPRESSO MACHINE MASTRENA	SB-GC	-	-	5/8"	-	-	-	1/2"	-	-	
X8019	1	HOT WATER RECIRCULATION PUMP	GC-GC	-	-	-	-	-	-	1/2"	-	-	BELL & GOSSETT MODEL NBF-36 PUMP WITH BELL & GOSSETT AQS-3/4 AQUASTAT, AND BELL & GOSSETT TC-1 AUTOMATIC TIMER
<b>NITRO SYSTEM</b>													
20011	1	NITRO STATION	SB-GC	-	-	1/2"	-	-	-	-	-	-	
21679	1	NITROGEN GENERATOR COMPACT	SB-GC	-	-	-	-	-	-	-	-	-	
<b>ICE</b>													
19278	2	ICE - BIN DROP IN 45LB 20KG	SB-GC	-	-	1"	-	-	-	-	-	-	
10527	2	ICE - BIN DROP IN 45LB 20KG	SB-GC	-	-	1"	-	-	-	-	-	-	
18846	1	ICE - 48" MACHINE 1520LB REMOTE AIR COOLED	SB-GC	-	-	3/4"	-	-	-	1/2"	-	-	
18029	1	ICE - 48" BIN 854LB	SB-GC	-	-	1"	-	-	-	-	-	-	
<b>CASEWORK</b>													
22396	2	CABINET WITH HAND SINK	SB-GC	10597	2"	-	1 1/2"	-	-	-	-	-	

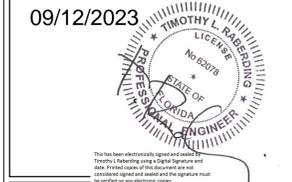


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FOR CONSTRUCTION

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PROJECT ADDRESS:  
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LECANTO, FL 34461**

STORE #: 78366  
PROJECT #: 97107-001  
ISSUE DATE: 09/06/2023  
DESIGN MANAGER: RAI MONTERO  
PRODUCTION DESIGNER: ANDY M.CLOUD  
CHECKED BY: DONALD RETHMAN

Revision Schedule		
Rev	Date	Description

SHEET TITLE:  
**PLUMBING SCHEDULES**

SCALE: AS INDICATED

SHEET NUMBER:  
**P-601**

BLD202323715