

GENERAL NOTES:

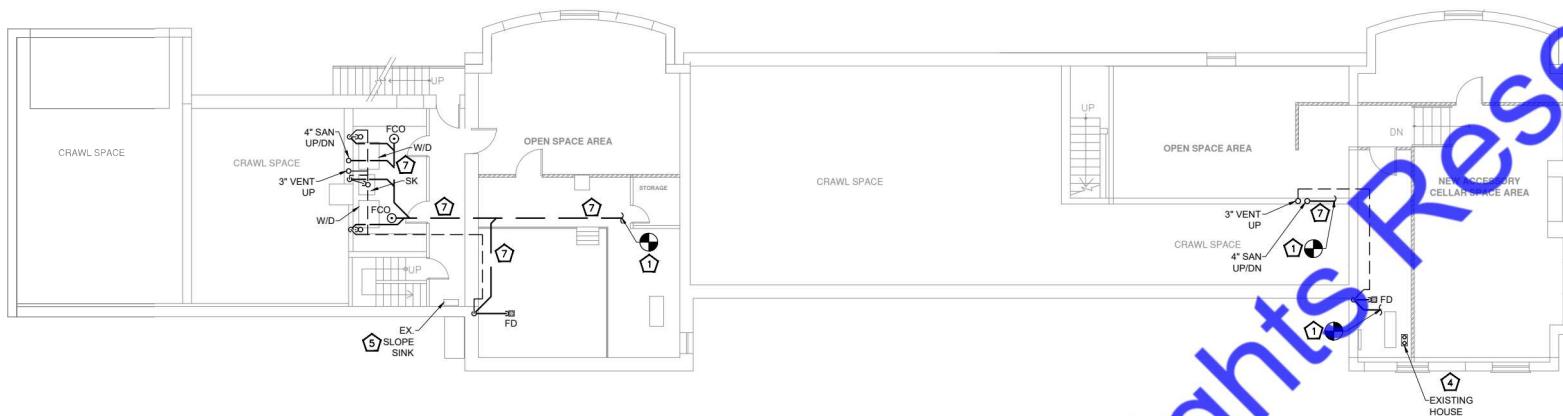
1. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
2. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, CLEANOUTS & SHUT-OFF VALVES AS REQUIRED.
3. PROVIDE TRAP PRIMER TO ALL FLOOR DRAIN.
4. SLOPE OF DRAINAGE SYSTEM SHALL BE 1/8" PER FOOT OF RUN FOR PIPE 3" AND ABOVE, 1/4" PER FOOT OF RUN FOR PIPE LESS THAN 3". VENT PIPE SHALL BE PITCHED TO DRAIN.
5. PROVIDE ACCESS PANEL FOR CLEANOUTS AND ALL CONCEALED EQUIPMENTS THAT REQUIRE MAINTENANCE ACCESS. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR LOCATION.
6. PROVIDE WALL CLEANOUTS WHEREVER POSSIBLE FOR EACH CHANGE IN DIRECTION OF MORE THAN 45DEG.
7. FOR ALL PIPE SIZES, REFER TO RISER DIAGRAM.
8. PLUMBING CONTRACTOR TO CO-ORDINATE WITH MECHANICAL CONTRACTOR FOR ANY CONDENSATE DRAIN REQUIREMENT & CONNECT THE CONDENSATE DRAIN TO SANITARY SYSTEM WITH AIR GAP FITTING.
9. ALL PLUMBING SERVICES SHALL BE COORDINATED WITH MECHANICAL SERVICES ON SITE AND ADJUST THE ROUTINGS ACCORDINGLY.

PLUMBING SANITARY PLAN KEY NOTES:

- ① CONNECT NEW 4" SANITARY PIPE TO EXISTING SANITARY PIPE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY THE SIZE, LOCATION AND INVERT OF EXISTING SANITARY PIPE AND MAKE NECESSARY CHANGES IF REQUIRED.
- ② CONNECT NEW 3" VENT LINE TO EXISTING VENT LINE IN SPACE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF EXISTING VENT PIPE AND MAKE NECESSARY CHANGES / UPGRADE IF REQUIRED.
- ③ EXISTING WATER CLOSET & LAVATORY TO BE REPLACED WITH NEW AS OF SAME KIND. ALL EXISTING SANITARY AND VENT PIPING TO REMAIN AS IT IS WITH RELATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING, FITTINGS AND ACCESSORIES AND REPLACE / REPAIR IF REQUIRED.
- ④ EXISTING HOUSE TRAP TO REMAIN AS IT IS. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF EXISTING HOUSE TRAP AND REPLACE / REPAIR IF REQUIRED.
- ⑤ EXISTING SLOPE SINK TO REMAIN WITH EXISTING SANITARY AND VENT PIPING WITH ITS RELATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING, FITTINGS AND ACCESSORIES AND REPLACE / REPAIR IF REQUIRED.
- ⑥ SANITARY PIPE RUNNING IN CELLAR FLOOR CEILING LEVEL.
- ⑦ SANITARY PIPE RUNNING IN UNDERGROUND CELLAR FLOOR.

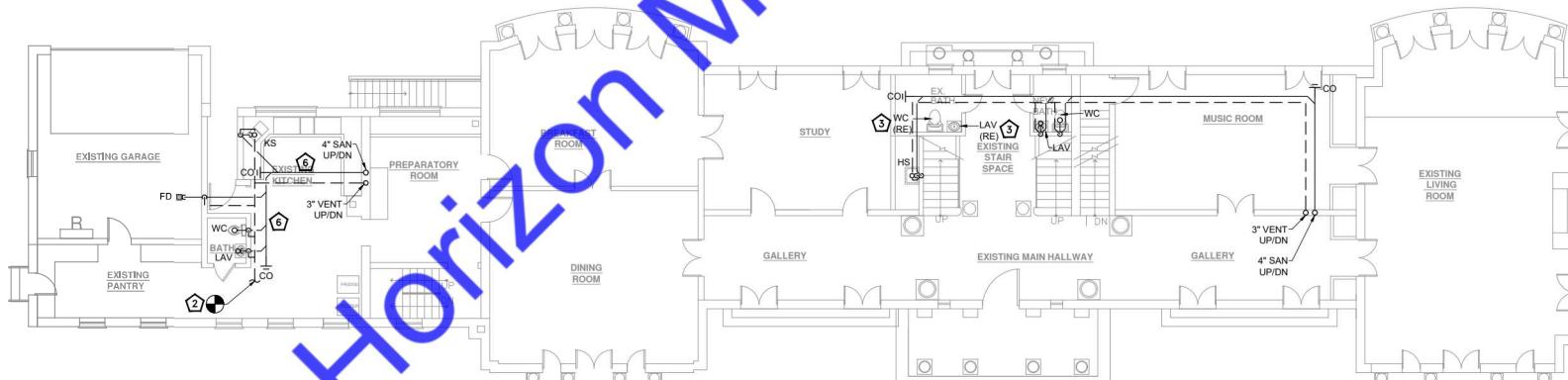
CELLAR FLOOR SANITARY & VENT PLAN

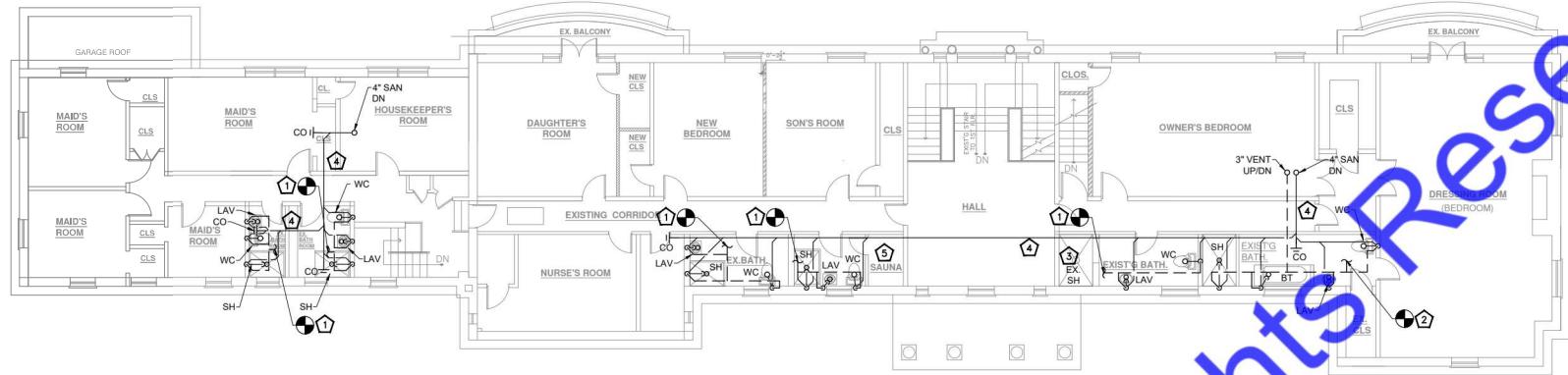
SCALE: 1/8"=1'-0"



FIRST FLOOR SANITARY & VENT PLAN

SCALE: 1/8"=1'-0"





SECOND FLOOR SANITARY & VENT PLAN

SCALE: 1/8"=1'-0"

- GENERAL NOTES:**
1. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
 2. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, CLEANOUTS & SHUT-OFF VALVES AS REQUIRED.
 3. PROVIDE TRAP PRIMER TO ALL FLOOR DRAIN.
 4. SLOPE OF DRAINAGE SYSTEM SHALL BE 1/8" PER FOOT OF RUN FOR PIPE 3" AND ABOVE, 1/4" PER FOOT OF RUN FOR PIPE LESS THAN 3". VENT TUBE SHALL BE PITCHED TO DRAIN.
 5. PROVIDE ACCESS PANEL FOR CLEANOUTS AND ALL CONCEALED EQUIPMENTS THAT REQUIRE MAINTENANCE ACCESS. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR LOCATION.
 6. PROVIDE WALL CLEANOUTS WHEREVER POSSIBLE FOR EACH CHANGE IN DIRECTION OF MORE THAN 45DEG.
 7. FOR ALL PIPE SIZES, REFER TO RISER DIAGRAM.
 8. PLUMBING CONTRACTOR TO CO-ORDINATE WITH MECHANICAL CONTRACTOR FOR ANY CONDENSATE DRAIN REQUIREMENT & CONNECT THE CONDENSATE DRAIN TO SANITARY SYSTEM WITH AIR GAP FITTING.
 9. ALL PLUMBING SERVICES SHALL BE COORDINATED WITH MECHANICAL SERVICES ON SITE AND ADJUST THE ROUTINGS ACCORDINGLY.

PLUMBING SANITARY PLAN KEY NOTES:

- ① CONNECT NEW 2" VENT LINE TO EXISTING NEARBY VENT LINE IN SPACE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF EXISTING VENT PIPE AND MAKE NECESSARY CHANGES / UPGRADE IF REQUIRED.
- ② CONNECT NEW 3" VENT LINE TO EXISTING VENT LINE IN SPACE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF EXISTING VENT PIPE AND MAKE NECESSARY CHANGES IF REQUIRED.
- ③ EXISTING SHOWER TO REMAIN WITH EXISTING SANITARY AND VENT PIPING WITH ITS RELATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING, FITTINGS AND ACCESSORIES AND REPLACE / REPAIR IF REQUIRED.
- ④ SANITARY PIPE RUNNING IN FIRST FLOOR CEILING LEVEL.
- ⑤ PLUMBING CONTRACTOR TO COORDINATE WITH SAUNA CONTRACTOR FOR THE PLUMBING REQUIREMENTS AND PROVIDE NECESSARY PLUMBING PROVISIONS IF REQUIRED.

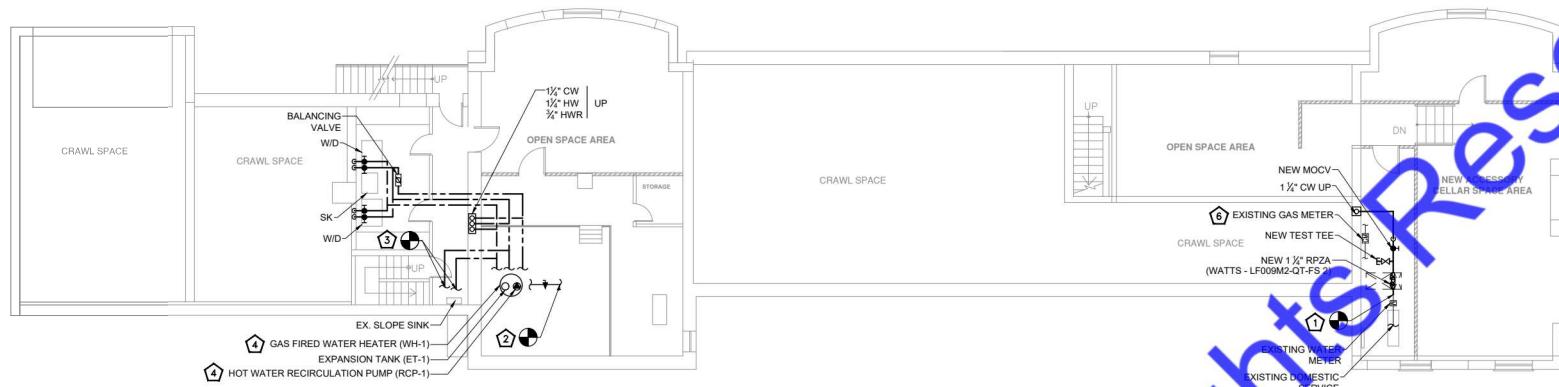
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GENERAL NOTES:

- ALL WATER PIPING SHOULD BE PROVIDED WITH INSULATION ACCORDING TO POINT 1.06, B&G ON P-001.
- CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES SPECIFICATIONS AND MOUNTING HEIGHT INSTALLATION.
- FOR ALL PIPE SIZES, REFER TO RISER DIAGRAM.
- FOR LAV PROVIDE HOT WATER AT 105°F AND FOR SINK PROVIDE HOT WATER AT 110°F. PROVIDE POINT OF USE MIXING VALVE IF REQUIRED.
- PROVIDE MINIMUM PRESSURE REQUIRED FOR WATER LINES AT EXTREME FIXTURE AS PER TABLE NO 604.3 FROM NYC PLUMBING CODE. PROVIDE BRANCH PRV IF PRESSURE INCREASES 65 PSI.
- ALL EXIST. PLUMBING SYSTEM TO REMAIN UNLESS SPECIFIED TO DEMOLISH OR TO REPLACE OR TO RELOCATE.
- CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
- PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, CLEANOUTS & SHUT-OFF VALVES AS REQUIRED.
- PROVIDE ELECTRONIC TRAP PRIMER TO ALL FLOOR DRAIN.
- ALL PLUMBING SERVICES SHALL BE COORDINATED WITH MECHANICAL SERVICES ON SITE AND ADJUST THE ROUTINGS ACCORDINGLY.

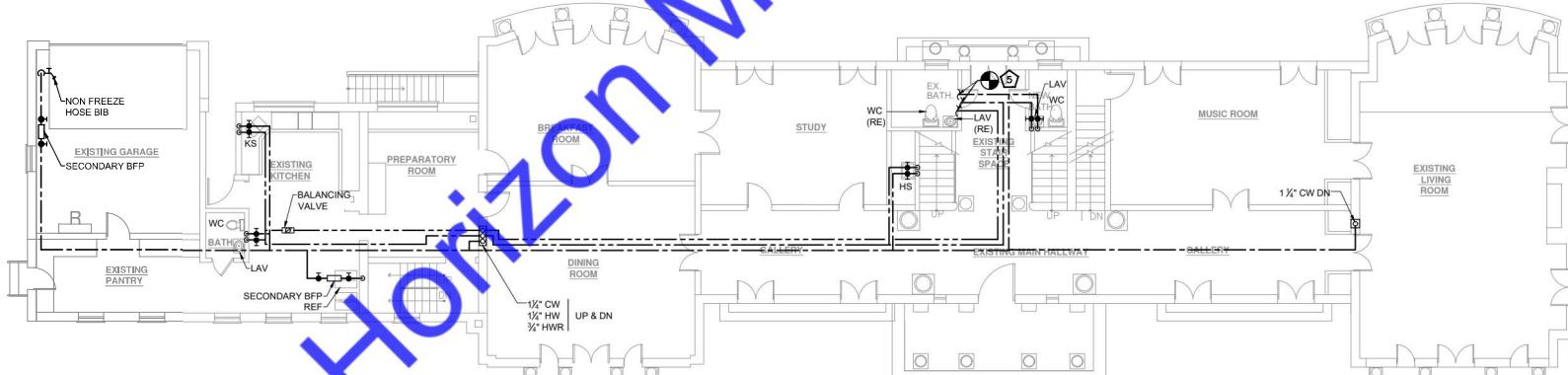
PLUMBING WATER & GAS PLAN KEY NOTES:

- ① CONNECT NEW 1½" COLD WATER PIPING WITH NEW RPZA TO THE EXISTING DOMESTIC SERVICE WITH EXISTING WATER METER IN SPACE. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND PRESSURE OF EXISTING DOMESTIC WATER SERVICE AND UPGRADE IF REQUIRED.
- ② CONNECT NEW 1" GAS PIPING TO EXISTING GAS PIPING IN SPACE. CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING GAS PIPING AND REPLACE AS REQUIRED. CONTRACTOR TO MAKE SURE ADEQUATE INLET PRESSURE IS PROVIDED FOR ALL GAS EQUIPMENT AS PER MANUFACTURER INSTRUCTIONS.
- ③ CONNECT NEW ½" HW AND CW PIPING TO EXISTING HW AND CW PIPING OF EXISTING SLOPE SINK. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND FIXTURE, REPLACE IF REQUIRED.
- ④ PROVIDE NEW GAS FIRED WATER HEATER (WH-1), HOT WATER RECIRCULATION PUMP (RCP-1) AND EXPANSION TANK (ET-1) AS SHOWN ON PLANS.
- ⑤ CONTRACTOR TO REPLACE THE EXISTING WC AND LAVATORY TO NEW AS OF SAME KIND. CONNECT NEW ½" CW, HW, HWR PIPING TO EXISTING CW, HW, HWR PIPING OF THE REPLACED WC AND LAV.
- ⑥ EXISTING GAS METER TO REMAIN WITH EXISTING GAS PIPING AND ACCESSORIES. CONTRACTOR TO FIELD VERIFY EXACT LOCATION ON SITE.



CELLAR FLOOR WATER & GAS PLAN

SCALE: 1/8"=1'-0"

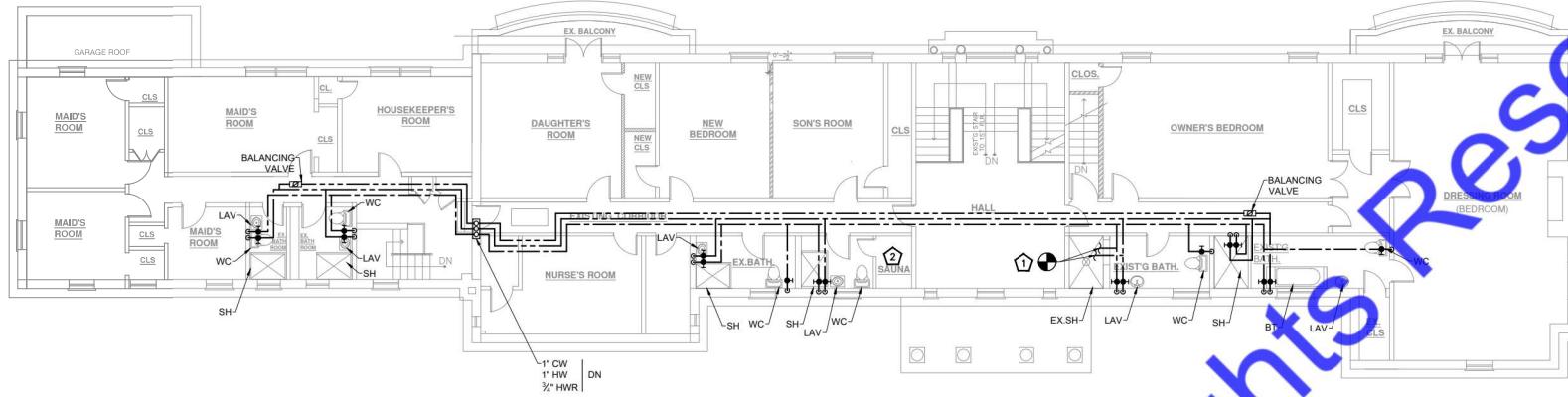


FIRST FLOOR WATER & GAS PLAN

SCALE: 1/8"=1'-0"



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SECOND FLOOR WATER & GAS PLAN

SCALE: 1/8"=1'-0"

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PLUMBING FIXTURE SCHEDULE

LEGEND	PLUMBING FIXTURE	CONNECTION SIZE - INCHES					REMARKS	
		TRAP	SOIL/WASTE	VENT	COLD WATER	HOT WATER		
WC	WATER CLOSET	-	4"	2"	1/2"	-	-	FLUSH TANK
LAV	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE	P - TRAP
W/D	WASHER/DRYER	2"	2"	1 1/2"	3/4"	3/4"	PROVIDE	I.W. FROM WM SPILLS INTO 2" STANDPIPE
BT/SH	BATHTUB / SHOWER	2"	2"	1 1/2"	1/2"	1/2"	PROVIDE	P - TRAP
SK/H/S	SINK / HAND SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE	P - TRAP
KS	KITCHEN SINK	1 1/2"	2"	1 1/2"	1/2"	1/2"	PROVIDE	P - TRAP
EX.SH	EXISTING SHOWER	E	E	E	E	E	PROVIDE NEW IF EXISTING IS NOT AVAILABLE	EXISTING TO REMAIN
-	EXISTING SLOPE SINK	E	E	E	E	E	PROVIDE NEW IF EXISTING IS NOT AVAILABLE	EXISTING TO REMAIN
FD	FLOOR DRAIN	3 1/4"	3 1/4"	2"	-	-	-	PROVIDE TRAP PRIMER
NFHB	NON FREEZE HOSE BIB	-	-	-	3/4"	-	-	PROVIDE SECONDARY BFP
REF	REFRIDGERATOR	-	-	-	1/2"	-	-	PROVIDE SECONDARY BFP

NOTE: CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES SPECIFICATIONS AND MOUNTING HEIGHT INSTALLATION.

HOT WATER RECIRCULATION PUMP SCHEDULE

TAG	OTY	SERVICE	PERFORMANCE DATA			PUMP CONSTRUCTION DATA						MFGR MODEL	REMARKS
			GPM PER PUMP	TDH PER PUMP (FT)	WATER TEMP (°F)	PUMP TYPE	MHP PER PUMP	STARTER TYPE	V/PH/Hz	RPM	ROTATION		
RCP-1	1	HWR	2	15	120	INLINE, NORYL	39 WATTS	AQUASTAT	115/1/60	2800	PER MFG	BELL & GOSSETT NBF 8ULW	- INLINE IN HW RETURN LINE AT WATER HEATER NEMA 1 RATED MOTOR - FULL TESTED & NSF CERTIFIED

EXPANSION TANK SCHEDULE

ITEM	QUANTITY	LOCATION	SERVICE	GALLONS	MAKE	REMARKS
EXPANSION TANK (ET-1)	(1	REFER PLAN	HOT WATER	2	AMTROL ST-5C-DD	DIMENSIONS - 14"(H) X 8" (DIA)

MASTER THERMOSTATIC MIXING VALVE SCHEDULE

ITEM	QUANTITY	LOCATION	SERVICE	CAPACITY (GPM)	PRESSURE DROP (PSI)	MINIMUM FLOW (GPM)	MAKE	CW INLET	HIGH TEMP. INLET	LOW TEMP. OUTLET	REMARKS
TMV-1	01	REFER PLAN	HOT WATER	23	5	1	LAWLER 801	3/4"	3/4" (140° F)	1" (120° F)	- BRONZE BODY CONSTRUCTION AND LEAD FREE CONSTRUCTION - ASSE CERTIFIED

GAS STORAGE HOT WATER HEATER SCHEDULE

ITEM	QUANTITY	LOCATION	MAX. INPUT (MBH)	STORAGE CAPACITY	RECOVERY CAPACITY (GPH) @ 90° F	TYPE	UEF	MANUFACTURER & MODEL NO.	REMARKS
WH-1	1	AS PER PLAN	100	75 GAL.	129	GAS STORAGE TYPE WATER HEATER	0.96	A.O SMITH HDHE 75	- EXPANSION TANK (ET-1), THERMOSTATIC MIXING VALVE (TMV-1) & HOT WATER RECIRCULATION PUMP (RCP-1) - PROVIDE DRIP PAN



