

KEYNOTES

15.101 CONNECT TO EXISTING COLD WATER PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE AND LOCATION AT SITE. PROVIDE SHUT-OFF VALVE IN NEW PIPE AT POINT OF CONNECTION.

15.102 CONNECT TO EXISTING HOT WATER PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE AND LOCATION AT SITE. PROVIDE SHUT-OFF VALVE IN NEW PIPE AT POINT OF CONNECTION.

15.103 CONNECT TO EXISTING WASTE LINE AS NOTED ON PLAN OF EQUAL OR LARGER SIZE. VERIFY SIZE, LOCATION, INVERT ELEVATION, AND FLOW DIRECTION.

15.104 CONNECT TO EXISTING VENT PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE AND LOCATION AT SITE.

15.106 ALL HAND SINKS MUST DELIVER HOT WATER WITHIN 15 SECONDS. TEST SINK FOR 15 SECOND DELIVERY AFTER 12 HOURS OF NON-USE. IF SINK DOES NOT MEET 15 SECOND REQUIREMENT AND HAS LESS THAN A 1 GPM AERATOR, REPLACE WITH A NON-LAMINAR 1 GPM AERATOR COMPATIBLE WITH FAUCET AND RETEST. IF STILL UNABLE TO MEET 15 SECOND DELIVERY TIME, VERIFY PIPING IS INSTALLED SO THE MAXIMUM 1/2" HOT WATER LINE LENGTH FROM A RECIRCULATED HOT WATER LINE TO THE FAUCET DOES NOT EXCEED 20 FEET AND, IF NOT, REVISE PIPING AS NECESSARY. VERIFY THAT MIXING VALVES ARE OPERABLE FOR 115psi SUPPLY TEMPERATURE.

15.110 EXISTING PIPING TO REMAIN (VERIFY LOCATION IN FIELD).

15.150 GREASE INTERCEPTOR FOR THREE COMPARTMENT SINK. PROVIDE RECESSED SCHIER G82 AT 35 GPM FLOW RATE WITH FCR1 12" EXTENSION RISER.

PLUMBING SYMBOLS

— — — — —	DOMESTIC COLD WATER (CW)
— — — — —	DOMESTIC HOT WATER (HW)
— — — — —	HOT WATER RECIRCULATION (HWR)
— SS —	SANITARY SEWER (SS)
— GW —	GREASE WASTE (GW)
— A —	COMPRESSED AIR (A)
— V —	PLUMBING VENT (V)
— T —	TEPID WATER (T)
— 110° —	TEMPERED WATER (110°)
— ST —	STORM PIPING (ST)
— SOV —	SHUT OFF VALVE (SOV)
— H —	SHUT OFF VALVE IN RISE
— RISE AND FALL IN PIPE	
— FCO —	NEW FLOOR CLEANOUT (FCO)
— YCO —	YARD CLEANOUT
[Hatched Box]	EXISTING ITEMS TO BE REMOVED OR RELOCATED (SHOWN HATCHED AND NOTED)
[Circle with X]	FLOOR DRAIN, CASE DRAIN & FUNNEL FLOOR DRAIN (FFD)
[Circle with P]	PREP AREA DRAIN & STOCKROOM FLOOR DRAIN (FD)
[Circle with S]	FOOD SINK DRAIN (FS)
[Trench Symbol]	TRENCH DRAIN (TD)
[Circle with R]	PLUMBING RISER NUMBER
[Circle with Connect]	CONNECT TO EXISTING
[X/XX]	DETAIL NUMBER / SHEET NUMBER
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
3CS	THREE-COMPARTMENT SINK
CTS	COUNTERTOP SINK
DEMO	DEMOLISH AND REMOVE FROM PREMISES
ETR	EXISTING TO REMAIN
EW	EYEWASH
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FS	FLOOR SINK
FPWH	FREEZE PROOF WALL HYDRANT
MHB	MIXING HOSE BIBB
HS	HAND SINK
I.E.	INVERT ELEVATION
HB	HOSE BIBB
MS	MOP SINK
PS	PREP SINK
UR	URINAL
VBF	VENT BELOW FLOOR
VBG	VENT BELOW GRADE
VTR	VENT THRU ROOF
WC	WATER CLOSET
WH	WATER HEATER
[Grocery Symbol]	DENOTES GROCERY AND SNACK BAR EQUIPMENT. REFER TO GROCERY PLUMBING EQUIPMENT CONNECTION SCHEDULE.
[TBC Symbol]	DENOTES TBC EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR TBC EQUIPMENT SCHEDULE.
[Key Note]	PLUMBING KEY NOTES.

GENERAL NOTES

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.

2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS AND READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND EQUIPMENT MANUFACTURER RECOMMENDATIONS.

3. STORE MUST BE KEPT IN OPERATION. ARRANGE ALL WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS TO A MINIMUM. COORDINATE WITH EXISTING AND NEW CONSTRUCTION. COORDINATE ANY DISRUPTIONS WITH CLUB MANAGER AND SAM'S CONSTRUCTION MANAGER. PAY ALL NECESSARY FEES AND PERMITS.

4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION, REPAIR OR CONSTRUCTION OF PLUMBING RELATED EQUIPMENT.

5. IF NEW CONSTRUCTION WILL DISRUPT EXISTING UNDERGROUND SERVICES (GAS, SEWER, DOMESTIC WATER, FIRE SPRINKLER, ETC.), PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION. COORDINATE ANY DISRUPTIONS WITH CLUB MANAGER AND SAM'S CONSTRUCTION MANAGER.

6. INSTALL VTR'S A MINIMUM OF 24" AND FLUES A MINIMUM OF 36" FROM ROOF EDGE AND/OR PARAPET WALLS. INSTALL VTR'S, FLUES AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE OF ROOF TOP UNITS. INSTALL EXHAUST FANS AND ROOF TOP UNITS A MINIMUM OF 10 FT FROM ROOF EDGE OR A MINIMUM OF 60" FROM PARAPET WALLS THAT ARE AT LEAST 42" HIGH.

7. PLUMBING VTR PIPES NOTED TO BE DEMOLISHED ON PLAN SHALL BE CUT 6" BELOW BOTTOM OF ROOF DECK. CAP ABANDONED VTR WATER TIGHT ABOVE AND BELOW ROOF. SECURE VENT PIPE FROM STRUCTURE WITH UNISTRUT AND PIPE CLAMP TO PREVENT MOVEMENT.

8. EXISTING PIPE SIZES AND LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING PIPING THAT IS BEING CONNECTED TO OR MODIFIED, AND TO VERIFY THAT PROPER SLOPES AND ELEVATIONS ARE AVAILABLE. MAINTAIN MINIMUM SLOPE OF 1/8" PER FOOT OR SANITARY SEWER PIPING 3" OR LARGER. MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT FOR SANITARY SEWER PIPING SMALLER THAN 3". REF ARCH. FOR TRENCHING REQUIREMENTS.

9. VERIFY EXISTING SEWER AND VENT PIPE SIZE, ELEVATION, AND PROPER SLOPES ARE AVAILABLE BEFORE CUTTING FLOOR SLAB FOR NEW SEWER PIPING FOR FLOOR SLABS NOT SHOWN TO BE REMOVED ON THE DEMOLITION PLAN.

10. PROVIDE ACCESS DOORS TO ALL INACCESSIBLE WATER VALVES AND CLEANOUTS.

11. PLUMBING CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR PROPER SEWER SYSTEM OPERATION.

12. SANITARY DRAINAGE LINES AND FITTINGS (DRAIN, WASTE AND VENT) SHALL BE PVC-DWV PLASTIC SCHEDULE 40, WHERE REQUIRED BY LOCAL CODES, CAST IRON, COATED INSIDE AND OUTSIDE SHALL BE USED. REFER TO SPECIFICATIONS.

13. PROVIDE AUTOMATIC TRAP PRIMERS ON FLOOR DRAINS IF REQUIRED BY LOCAL PLUMBING CODES.

14. ALL FLOOR CLEANOUTS SHALL BE INSTALLED FLUSH WITH FLOOR FINISH MATERIAL OR FLUSH WITH CONCRETE SLAB IF NO FLOOR FINISH MATERIAL IS CALLED OUT FOR ON ARCHITECTURAL DRAWINGS.

15. LOCATE ALL FLOOR CLEANOUTS OUT OF TRAFFIC WAYS WHILE MAINTAINING ACCESSIBILITY. LOCATE PER DIMENSIONS IF SHOWN ON PLANS.

16. FLOOR CUTS SHALL BE STRAIGHT AND CLEAN. REPLACE REMOVED SLAB WITH CONCRETE FLUSH AND SMOOTH WITH ADJACENT FLOOR SLAB. COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DRAWINGS.

17. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.

18. CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. MATCH EXISTING CONSTRUCTION.

19. DO NOT INSTALL PIPING WITHIN COOLER PANELS. INSTALL EXPOSED PIPING IN PREP AREAS A MINIMUM OF 1" FROM PANEL WALL AND 6" ABOVE FINISHED FLOOR TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.

20. PROVIDE ESCUTCHEON PLATES FOR PLUMBING PENETRATIONS THROUGH GROCERY CEILINGS AND WALLS.

21. PROVIDE AIR TIGHT SEAL AROUND PIPING PENETRATIONS THROUGH COOLER/FREEZER WALLS AND CEILINGS. FINISH WITH ESCUTCHEON PLATE.

22. PROVIDE HEAT TAPE AND INSULATION ON ALL WATER AND DRAIN PIPING EXPOSED TO FREEZING.

23. INSTALL CONTINUOUS SEALANT JOINT AT ALL EXTERIOR WALL PENETRATIONS.

24. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC DESIGN CATEGORY REQUIREMENTS PER SAKCMA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

25. EXISTING CONDITIONS ARE BASED UPON PREVIOUS CONSTRUCTION DRAWINGS AND/OR SITE VISIT AND MAY NOT REFLECT EXACT "AS BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS, SIZES AND LOCATIONS OF EQUIPMENT PRIOR TO FINAL BID. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS AS REQUIRED.

26. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.

27. INSTALL CENTERLINE OF GROCERY AREA UTILITY WALL PENETRATIONS AND WALL CLEANOUTS AT 12" AFF MINIMUM.

28. REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULES FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN. RISER DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT REFLECT EVERY OFFSET, RISER OR UNION, PIPE FITTINGS AND UNIONS. IF SHOWN ON THE RISER, SHALL NOT BE USED FOR TAKE-OFF OR ESTIMATING PURPOSES.

29. ALL UNISTRUT, UNISTRUT CLAMPS AND FITTINGS SHALL BE HOT-DIPPED GALVANIZED.

CONTRACTOR RESPONSIBILITY NOTE

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED AREA. THE FAILURE TO ACQUAINT THEMSELVES WITH THESE DOCUMENTS DOES NOT RELIEVE THEM OF ANY RESPONSIBILITY FOR PERFORMING THEIR WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS INFORMATION.

EQUIVALENT NOMINAL PIPE SIZES

PLAN SIZE (COPPER)	AQUATHERM HOT WATER	AQUATHERM COLD WATER	PEX
1/2"	1/2"	1/2"	1/2"
3/4"	3/4"	3/4"	1"
1"	1"	1"	1 1/4"
1 1/4"	1 1/2"	1 1/4"	1 1/2"
1 1/2"	2"	1 1/2"	2"
2"	2 1/2"	2"	N/A
2 1/2"	3"	2 1/2"	N/A
3"	3 1/2"	3"	N/A
4"	6"	4"	N/A

NOTE: REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

10.25.13

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**PLUMBING
PLANS AND
RISERS**

SHEET:
P1


4 PIPE BEDDING DETAIL

3 PIPE AND TRENCH LOCATION

1 REFRIGERATED CASE DRAIN
NTS



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