

GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE TO OBSERVE THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS. REFER TO SPECIFICATIONS.
- PROVIDE TO THE OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
- PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHEN NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMNS, PIER, ETC. SLEEVES THROUGH GRADE BEAMS, FOOTINGS, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
- COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10" MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2" CLEARANCE FROM ALL OTHER EQUIPMENT.
- INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
- EXAMINE THE CONTRACT DRAWINGS AND ALL AVAILABLE INFORMATION CONCERNING EXISTING INSTALLATION, STRUCTURE, AND LOCAL CONDITIONS. VISIT THE SITE TO UNDERSTAND THE NATURE AND SCOPE OF ALL WORK TO BE PERFORMED AND VERIFY EXISTING CONDITIONS. THE SUBMISSION OF A BID WILL BE TAKEN AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND THAT ALL EXISTING CONDITIONS HAVE BEEN CONSIDERED. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THAT OF THESE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- PLUMBING CONTRACTOR MUST PROVIDE CAMERA VERIFICATION OF EXACT LOCATION OF WASTE LINE TO GC DURING BID. VERIFICATION MUST BE MADE PRIOR TO ISSUANCE OF PERMIT AND AFTER ACCEPTANCE OF CONTRACT TO PROCEED.
- CONTRACTOR TO FIELD VERIFY EXISTING DOMESTIC WATER SYSTEM IS PROVIDED WITH A REDUCED PRESSURE BACKFLOW PREVENTER (RBPB). IF NOT EXISTING, PROVIDE AN APPROVED RBPB ASSEMBLY SIZED TO MATCH BUILDING WATER METER. INSTALL NEW RBPB BETWEEN THE WATER METER AND THE BUILDING PER LOCAL JURISDICTION'S REQUIREMENTS.

KITCHEN GENERAL NOTES:

- REFERENCE THE KITCHEN EQUIPMENT PLUMBING CONNECTION SCHEDULE FOR ITEMS TO BE FURNISHED AND / OR INSTALLED AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS FOR KITCHEN EQUIPMENT. REFERENCE KITCHEN EQUIPMENT DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT AND ROUGH-IN. REFERENCE THE KITCHEN EQUIPMENT SHOP DRAWINGS AND COORDINATE WITH THE OWNER FOR EXACT REQUIREMENTS PRIOR TO THE START OF INSTALLATION.
- PROVIDE ITEMS AND WORK AS REQUIRED FOR A COMPLETE AND WORKING PLUMBING INSTALLATION FOR EACH PIECE OF KITCHEN EQUIPMENT. PROVIDE ROUGH-INS AND CONNECT TO THE KITCHEN EQUIPMENT WITH TRAPS, SUPPLIES, SHUTOFF VALVES, PIPES TO THE WALL, ESCUTCHEONS, ETC. AS SHOWN, SPECIFIED AND REQUIRED.
- VERIFY GAS LOADS AND GAS ROUGH-IN OF KITCHEN EQUIPMENT WITH THE KITCHEN EQUIPMENT SHOP DRAWINGS PRIOR TO INSTALLING GAS PIPING. PROVIDE GAS COOKS, UNIONS, ETC. AS SPECIFIED AND REQUIRED. INSTALL GAS QUICK DISCONNECTS WHERE FURNISHED WITH THE KITCHEN EQUIPMENT.
- PROVIDE INDIRECT WASTE LINES OF SAME SIZE AS CONNECTION TO EQUIPMENT WITH 3/4" BEING MINIMUM SIZE. ROUTE FROM EQUIPMENT CONNECTION POINTS INDICATED TO FLOOR DRAIN OR FLOOR SINK. PROVIDE AIR GAP OF TWO PIPE DIAMETERS MINIMUM PER CODE.
- COMPLY WITH HEALTH DEPARTMENT REGULATIONS. PROVIDE CLEARANCE FOR CLEANING BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HEALTH DEPARTMENT. CONFORM TO HEALTH DEPARTMENT REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
- PROVIDE AIRTIGHT SEAL AROUND PIPING PENETRATIONS THROUGH WALK-IN COOLER OR FREEZER WALLS OR CEILINGS.
- DO NOT INSTALL PIPING IN COOLER OR FREEZER WALLS. INSTALL EXPOSED PIPING IN A NEAT APPEARING MANNER.
- COORDINATE FLOOR DRAIN LOCATION AND FLOOR SLOPE REQUIREMENTS WITH THE ARCHITECT.
- INSTALL RIM OF FLOOR DRAINS AND FLOOR SINKS BELOW FINISHED FLOOR LEVEL. SLOPE FLOOR TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- COORDINATE LOCATION OF VENT, WATER, AND GAS PIPING TO AVOID CONFLICT WITH OTHER TRADES.
- CLEAN INSTALLED PLUMBING FIXTURES AND EQUIPMENT.
- PROVIDE WALL BACKING OR SPECIFIED CARRIERS FOR THE PROPER SUPPORT OF INSTALLED WALL HUNG FIXTURES AND EQUIPMENT.
- PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR 3-COMPARTMENT SINKS, PRE-RINSE UNITS, JANITOR SINKS, MIXING HOSE BIBBS & MIXING WALL HYDRANTS DOWNSTREAM OF SHUTOFF VALVES.
- SEAL AROUND INSTALLED FIXTURES AND KITCHEN EQUIPMENT WITH CALULK.
- PROVIDE APPROPRIATE BACKFLOW PREVENTION DEVICES FOR KITCHEN EQUIPMENT REQUIRING THEM PER LOCAL AUTHORITIES REQUIREMENTS. INSTALL BACKFLOW PREVENTION DEVICES FURNISHED WITH KITCHEN EQUIPMENT.

EQUIPMENT SCHEDULE

ITEM NO.	QTY	EQUIPMENT CATEGORY	REMARKS	WATER		ROUGH-IN	WASTE	INDIRECT	ROUGH-IN	GAS	ROUGH-IN	REMARKS
				HOT	COLD	HEIGHT		HEIGHT	SIZE		MBTU	
4	1	THREE COMPARTMENT SINK				22"		(3) 1-1/2"				RUN L.W. TO FLOOR SINK; MANFOLD DRAINS
5	1	PRE-RINSE FAUCET		1/2"	1/2"	22"						VERIFY REQUIREMENTS W/LOCAL JURISDICTION
7	1	MOP SINK	BY OTHERS				2"		3"			
8	1	SERVICE FAUCET		1/2"	1/2"	42"						
21	1	ICE MAKER W/BIN			1/2"	REMARKS		(2) 3/4"	REMARKS			RUN L.W. TO FLOOR SINK; FILTERED CW FROM #22
22	1	WATER FILTER, 3-STAGE			1/2"	84"						P.C. TO RUN CW TO ITEM #21
24	1	PREP SINK		1/2"	1/2"	22"		1-1/2"	REMARKS			P.C. TO RUN L.W. TO FLOOR SINK
31	1	WORK TABLE W/HAND SINK & DUMP SINK		(2) 1/2"	(2) 1/2"	22"	1-1/2"	1-1/2"	18"			P.C. TO RUN L.W. TO FLOOR SINK
36B	1	FILTERED WATER SPIGOT			1/2"	REMARKS						FILTERED CW FROM #36C
36C	1	WATER FILTER, 2-STAGE			1/2"	22"						P.C. TO RUN CW TO ITEM #36B
38	1	ICE BIN, DROP-IN						1"	REMARKS			P.C. TO RUN L.W. TO HUB DRAIN
39	1	HAND SINK		1/2"	1/2"	22"	1-1/2"		18"			P.C. TO RUN L.W. TO HUB DRAIN
57	2	STEAMER			1/2"	REMARKS	G.C. TO TEE	CW TO EACH STEAMER USING 1/4" TUBING THRU REGULATOR				SHUT-OFF TO BE AT 22" A.F.F.
62	1	DRAIN BOARD						1"	REMARKS			P.C. TO RUN L.W. TO HUB DRAIN

MECHANICAL SCHEDULE

ITEM NO.	QTY	EQUIPMENT CATEGORY	REMARKS	WATER		ROUGH-IN	WASTE	INDIRECT	ROUGH-IN	GAS	ROUGH-IN	REMARKS
				HOT	COLD	HEIGHT		HEIGHT	SIZE		MBTU	
4	1	THREE COMPARTMENT SINK				22"		(3) 1-1/2"				RUN L.W. TO FLOOR SINK; MANFOLD DRAINS
5	1	PRE-RINSE FAUCET		1/2"	1/2"	22"						VERIFY REQUIREMENTS W/LOCAL JURISDICTION
7	1	MOP SINK	BY OTHERS				2"		3"			
8	1	SERVICE FAUCET		1/2"	1/2"	42"						
21	1	ICE MAKER W/BIN			1/2"	REMARKS		(2) 3/4"	REMARKS			RUN L.W. TO FLOOR SINK; FILTERED CW FROM #22
22	1	WATER FILTER, 3-STAGE			1/2"	84"						P.C. TO RUN CW TO ITEM #21
24	1	PREP SINK		1/2"	1/2"	22"		1-1/2"	REMARKS			P.C. TO RUN L.W. TO FLOOR SINK
31	1	WORK TABLE W/HAND SINK & DUMP SINK		(2) 1/2"	(2) 1/2"	22"	1-1/2"	1-1/2"	18"			P.C. TO RUN L.W. TO FLOOR SINK
36B	1	FILTERED WATER SPIGOT			1/2"	REMARKS						FILTERED CW FROM #36C
36C	1	WATER FILTER, 2-STAGE			1/2"	22"						P.C. TO RUN CW TO ITEM #36B
38	1	ICE BIN, DROP-IN						1"	REMARKS			P.C. TO RUN L.W. TO HUB DRAIN
39	1	HAND SINK		1/2"	1/2"	22"	1-1/2"		18"			P.C. TO RUN L.W. TO HUB DRAIN
57	2	STEAMER			1/2"	REMARKS	G.C. TO TEE	CW TO EACH STEAMER USING 1/4" TUBING THRU REGULATOR				SHUT-OFF TO BE AT 22" A.F.F.
62	1	DRAIN BOARD						1"	REMARKS			P.C. TO RUN L.W. TO HUB DRAIN

PLUMBING EQUIPMENT SCHEDULE

REF. NO.	ITEM DESCRIPTION	MANUFACTURER OR CAT. #	REMARKS
AGF	AIR GAP FITTING	ZURN Z - 1024-4 OR EQUAL	3/4" x 1 1/2"
GT	ABOVE GROUND GREASE TRAP	CANPLAS 25 GPM LOW PROFILE 50 LB GREASE CAPACITY PDI CERTIFIED	PROVIDE WITH FLOW CONTROL VALVE AS REQUIRED
FD	FLOOR DRAIN	ZURN FD-2320-NH3-ST-P	PUSH-ON JOINT OF OUTLET SIZE
FS	FLOOR SINK - INSTALLED FLUSH WITH FINISH FLOOR	WADE W-9140-16-1, 12"x12" OR EQUAL, NICKEL-BRONZE STRAINER 3/4" GRADE	PROVIDE INTERNAL STRAINER
WHA	WATER HAMMER ARRESTOR	PRECISION PLUMBING PRODUCTS TYPE SC OR EQUAL	PROVIDE ACCESS PANEL
FCO	FLOOR CLEAN OUT	ZURN Z1400 OR EQUAL	FLUSH WITH FINISH FLOOR
WCO	WALL CLEAN OUT	ZURN Z1441 OR EQUAL	
TMV	UNDER SINK THERMOSTATIC MIXING VALVE	WATTS LFMV SERIES OR EQUAL; LEAD FREE	UP TO 1" HW & CW ROUGH-IN VALVE SHALL HAVE INTEGRAL CHECK STOPS. CONCEAL IN WALL CAVITY
BFP	BACK FLOW PREVENTION ASSEMBLY FOR ICE MAKER	WATTS SERIES 90 DUAL CHECK VALVE ASSEMBLY WITH ATMOSPHERIC PORT, OR EQUAL	MIN. WORKING PRESSURE: 25 PSI; MAX. WORKING PRESSURE: 175 PSI
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS # PR-500 "PRIME RITE", CORROSION RESISTANT BRASS BODY, "O" RING SEALS, 1/2" INLET AND OUTLET, AND INTEGRAL VACUUM BREAKER.	INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED FLOOR.
AP	ACCESS PANEL	JAY R. SMITH # 4762-12"x12" -CL. TYPE 304 STAINLESS STEEL PANEL AND FRAME WITH CONCEALED HINGE, KEY OPERATED CYLINDER LOCK.	PROVIDE WITH NAILER SLOTS FOR INSTALLATION IN STUD WALLS AND ANCHOR STRAPS FOR INSTALLATION IN MASONRY CONSTRUCTION.
HD	HUB DRAIN		
TR	TRENCH DRAIN 5" PRO SERIES CHANNEL DRAIN KIT WITH METAL GRATE	NDS 864CMTL (OR EQUAL) CLASS B. LOADS WITH 61-175 PSI WITH MECHANICAL INTERLOCKING JOINTS AND UV INHIBITORS	USE WITH 3" HUB AND 4" SPIGOT TIE CLIPS FOR EASIER INSTALLATION

PLUMBING FIXTURE SCHEDULE

REF	ITEM	MFR & CAT. NO.	WASTE	TRAP	VENT	H.W.	C.W.
FIXTURES PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR (REUSE EXISTING IF PRESENT AND IN WORKING ORDER)							
LV SEE NOTE 1.	WALL HUNG LAVATORY - ADA; VITREOUS CHINA, 20" X 18" PERFORATED STRAINER WITH 1 1/4" OFFSET TAILPIECE. CHROME PLATED 3/8" SUPPLY W/ANGLE STOP & WROT ESCUTCHEON OFFSET, CHROME BRASS P-TRAP, 17 GA. WITH ESCUTCHEON WALL MTD. CARRIER W/HANGER PLATE, CONCEALED ARMS. FAUCET WITH AERATOR, 6" HANDLE 0.5 GPM FLOW, ON 4" CENTERS	AMERICAN STANDARD 0124.024 McGUIRE 155-WC McGUIRE 158WC	2	2	2	1/2	1/2
7	MOP BASIN ONE-PIECE CONSTRUCTION, 24" X 24" X 10" FLOOR MOUNTED TYPE. FAUCET WITH PAL HOOK AND HOSE END, VACUUM BREAKER, INTEGRAL STOPS HOSE AND HOSE BRACKET MOP HANGER, 24" X 3", 18 GA. VINYL BUMPER GUARD SILICONE SEALANT	FIAT MSB-2424 FIAT 830-AA FIAT 832-AA FIAT 889-CC FIAT E-77-AA FIAT 833-AA	3	3	2	3/4	3/4
WC SEE NOTE 2.	WATER CLOSET - ADA; VITREOUS CHINA, FLUSH TANK, SIPHON JET, ELONGATED BOWL, 12" ROUGHING, FLOOR MOUNTED, WATER SAVER TYPE, SEAT 19" A.F.F., WHITE SOLID PLASTIC SEAT, OPEN FRONT CHECK HINGE, CHROME PLATED 3/8" SUPPLY W/ANGLE STOP AND WROT. ESCUT.	AMERICAN STANDARD 2108.408 OLSONITE 95 McGUIRE 166	4	INT.	2	-	3/4
FIXTURES PROVIDED BY EQUIPMENT SUPPLIER AND INSTALLED BY THE PLUMBING CONTRACTOR							
4	3-COMPARTMENT SERVICE SINK; ONE-PIECE CONSTRUCT., 97-1/2"x29-1/2" FLOOR MOUNTED TYPE W/ FOUR LEGS (1) FAUCETS WITH 12" SWING NOZZLE VACUUM BREAKER, INTEGRAL STOPS PERFORATED STRAINER WITH 1 1/4" OFFSET TAILPIECE. BRASS 3/4" SUPPLY W/ANGLE STOP & WROT ESCUTCHEON OFFSET, BRASS P-TRAP, 17 GA. WITH ESCUTCHEON ATMOSPHERIC BACK-FLOW PREVENTOR	ELKAY SE3C18X18218X T&S B-0133-B T&S T&S B-0970-FEZ	3	3	2	3/4	3/4
24 SEE NOTE 1.	1-COMPARTMENT PREP SINK; ONE-PIECE CONSTRUCT., 97-1/2"x29-1/2" FLOOR MOUNTED TYPE W/ FOUR LEGS (1) SINK MIXING FAUCET TWIST WASTE VALVE PERFORATED STRAINER WITH 1 1/4" OFFSET TAILPIECE. BRASS 3/4" SUPPLY W/ANGLE STOP & WROT ESCUTCHEON OFFSET, BRASS P-TRAP, 17 GA. WITH ESCUTCHEON	ELKAY 14-1C16X20-L-18X T&S B-0231 T&S B-3952 T&S	2	2	2	1/2	1/2
39 SEE NOTE 1.	WALL MOUNTED HAND SINK STAINLESS STEEL 14"x10"x5" BOWL PERFORATED STRAINER CHROME PLATED 3/8" SUPPLY W/ANGLE STOP & WROT ESCUTCHEON OFFSET, CHROME BRASS P-TRAP, 17 GA. WITH ESCUTCHEON FAUCET WITH AERATOR, 6" HANDLE 0.5 GPM FLOW, ON 4" CENTERS	ELKAY SEHS-17X INCLUDED McGUIRE 158WC McGUIRE 8902 INCLUDED	2	2	2	1/2	1/2
HANDICAP ACCESSIBILITY NOTES: 1. ALL FAUCET OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. 2. WATER CLOSET FLUSH CONTROLS SHALL BE HAND OPERATED. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.							

LOW PRESSURE GAS PIPE SIZING CHART

PIPE SIZE	LOAD (CFH)
1/2"	40
3/4"	84
1"	158
1-1/4"	325
1-1/2"	486
2"	937
2-1/2"	1,493

OPERATING PRESSURE OF 7"WC WITH A PRESSURE DROP OF 0.5"WC
TOTAL DEVELOPED LENGTH = 150 FEET
TOTAL CONNECTED LOAD = 325 CFH
BASED ON NFPA 54 EQUATION 4-1

WATER & WASTE FIXTURE CALC

FIXTURE TYPE	QTY	D.F.U. (EA)	TOTAL D.F.U.	HOT		COLD		COMBINED		TOTAL		TOTAL SERVICE S.F.U.
				S.F.U. (EA)	(HOT)	S.F.U. (EA)	(COLD)	S.F.U. (EA)	(HOT)	S.F.U. (EA)	(COLD)	
PUBLIC LAVATORY	2	2.0	4.0	1.50	1.50	2.00	3	3	4.0			
SERVICE SINK (MOP BASIN)	1	3.0	3.0	2.25	2.25	3.00	2.25	3.00	2.25	3.00	2.25	3.0
FLOOR DRAIN	2	2.0	4.0	0.00	0.00	0.00	0	0	0	0	0	0.0
PUBLIC WATER CLOSET (1.6 GPF FLUSH TANK)	2	4.0	8.0	0.00	5.00	5.00	0	10	10.0			
SPECIALTY KITCHEN EQUIP.												
SINK (HAND OR DUMP)	4	2.0	8.0	1.50	1.50	2.00	6	6	8.0			
PREP SINK	1	3.0	3.0	1.50	1.50	2.00	1.5	1.5	2.0			
SINK (3 COMPARTMENT)	1	3.0	3.0	3.00	3.00	4.00	3	3	4.0			
ICE MACHINE	1	0.5	0.5	0.00	1.00	1.00	0	1	1.0			
WATER SPIGOT	1	0.5	0.5	0.00	0.50	0.50	0	0.5	0.5			
TOTAL UNITS:	15		34.5				15.75	27.25	33.50			

WATER PIPE SIZING CHART

FIXTURE UNITS VS. PRESSURE LOSS IN PSI / 100 FEET FOR TYPE "L" COPPER TUBE							
COLD WATER @ 6 PSI / 100'				HOT WATER @ 6.0 PSI / 100'			
PIPE SIZE	FLUSH TANK SFU	FLUSH VALVE SFU	VELOCITY FEET / SEC	FLOW GPM	FLUSH TANK SFU	VELOCITY FEET / SEC	FLOW GPM
1/2"	2.4	N/A	3.6	2.7	-	-	-
3/4"	7.9	N/A	4.6	6.9	-	-	-
1"	19.8	N/A	5.4	13.9	8	5	12.8
1-1/4"	40.5	7.5	6.3	24.5	19.75	5	19.5
1-1/2"	79.5	25.3	6.9	38.3	44.3	5	27.5
2"	250	137	8.0	77.3	120	5	48
2-1/2"	261	360	8	119.3	245	5	74
3"	748	700	8	170	407.9	5	106.5
4"	1746	1746	8	299	847	5	186.0
6"	10300	10300	8	1170.0	4849	5	641.0

SIZED WITH HAZEN WILLIAMS CONSTANT 'C' = 135 * UTILIZE COLD WATER SIZING CHART

WATER HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL#	AREA SERVED	ENERGY SOURCE	TANK TYPE	INPUT	GPM AT 70°F RISE	NOTES
WH-1	NORITZ NCC1991-DV-NG	KITCHEN/LAVS	NATURAL GAS	INSTANTANEOUS	199 MBH	5.3	A, B

NOTES:
A. 70°F TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.
B. FURNISH WITH FACTORY COMBUSTION AIR INTAKE AND EXHAUST KIT

GREASE TRAP SIZING

1 Count all contributing fixtures, measure and calculate capacities as follows:
Pot Sinks: $\frac{3}{3} \times 18 \times \frac{18}{18} \times \frac{15}{15} = 0.0$ gallons
1-A TOTAL = 63.1 gallons

2 $\frac{63.1 \text{ Total Gallons from 1-A} \times 0.75 \text{ (fill factors)}}{2 \text{ minute drain down period}} = 23.7 \text{ GPM}$

3 $\frac{0 \text{ Number of Floor Sinks or Drains (Except Indirect Wastes from Above)} \times 2.0}{2} = 0 \text{ GPM}$

6-A TOTAL = 23.7 GPM

Adjusted Total GPM = 24 GPM

PLUMBING SYMBOLS

- ANNOTATION**
- ① PLUMBING PLAN NOTE CALLOUT
 - ① PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING