

SIZING OF GREASE INTERCEPTORS FROM TABLE H-1 OF UNIFORM PLUMBING CODE

# of Meals per peak hour	Waste Flow Rate	Retention Time	Storage Factor	Interceptor Size (liquid capacity)
220 meals	2 gallons	1.5 hours	1.5	990 Gallon Grease Interceptor

Waste Flow Rate
 a. With dishwashing machine 6 gallon
 b. Without dishwashing machine 5 gallon
 c. Single service kitchen 2 gallon
 d. Food waste disposer 1 gallon

Retention Times
 Commercial kitchen waste
 Dishwasher 2.5 hours
 Single service kitchen 1.5 hours

Storage Factors
 Fully equipped commercial kitchen
 8 hour operation 1
 16 hour operation 2
 24 hour operation 3
 Single Service Kitchen 1.5

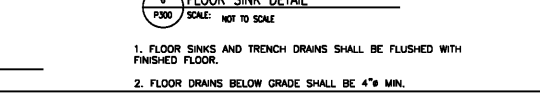
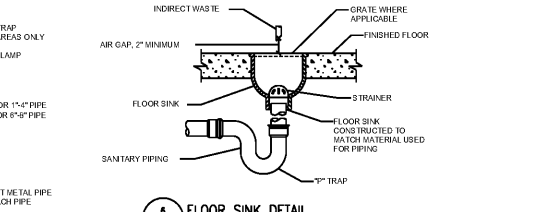
CONNECTED GAS LOAD SCHEDULE
 #13213 HUDDLE HOUSE PROTO

MARK	DESCRIPTION	CONN SIZE	QTY	CFH	CFH TOTAL
6/21/2019					
RTU-1	ROOFTOP UNIT	3/4"	1	120	120
RTU-2	ROOFTOP UNIT	3/4"	1	120	120
MAU-1	ROOFTOP UNIT		1	120	130
HEATING LOAD CFH TOTAL					370
WH-1	WATER HEATER		1	120	120
WATER HEATING LOAD CFH TOTAL					120
C1.0	FRYER	3/4"	2	110	220
C3.0	HOT PLATE	3/4"	2	24	48
C6.0	36" GRILL	3/4"	1	81	81
C6.1	48" GRILL	3/4"	1	108	108
COOKING LOAD CFH TOTAL					457
TOTAL CONNECTED GAS LOAD CFH					947

BACKFLOW PREVENTER MATRIX

MODEL	SERVES	TYPE	IPC LISTING
WATTS 009	WATER SERVICE (OUTDOOR)	RPZ	ASSE 1013
WATTS SD-3	CARBONATOR	CO2 CHECK	ASSE 1022
WATTS 7	FOOD SERVICE WATER FILTER	DOUBLE CHECK	ASSE 1024
WATTS 7	RINSE FAUCETS (MULTI-COMP SINK)	DOUBLE CHECK	ASSE 1024
INTEGRAL TO FIXTURE	HOSE BIBB	DOUBLE CHECK	ASSE 1052
WATTS 7	CHEMICALS DISP.	DOUBLE CHECK	ASSE 1024
WATTS SD-3	CARBONATED DRINK DISPENSER	CO2 CHECK	ASSE 1022
WATTS 7	ICE MAKER	DOUBLE CHECK	ASSE 1024
WATTS 7	NON-CARB DRINK DISPENSER	DOUBLE CHECK	ASSE 1024
WATTS 288A	WATER HEATER VACUUM BREAKER	VACUUM BREAKER	ASSE 1001

NOTES:
 1. PROVIDE HANGING ALUMINUM TAG FOR EACH BFP WITH THE BFP DESIGNATOR AND LISTING ETCHED IN AS INDICATED ABOVE.
 2. TENANT SHALL PROVIDE TESTING FOR EACH BFP AT THE TIME OF INSTALLATION/RELOCATION AND ANNUALLY THEREAFTER.
 3. TESTING PROCEDURES TO BE PERFORMED PER LOCAL CODE.
 4. MOUNT WITH BFP ACCESSIBLE FOR TESTING/REPAIR AT A MINIMUM 1" ABOVE FLOOR AND MAXIMUM 5' ABOVE FLOOR.
 5. PROVIDE ACCESS PANELS FOR BFP THAT ARE INSTALLED WITHIN WALLS WHERE SURFACE MOUNTING IS NOT POSSIBLE.
 6. PROVIDE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL CODE.
 7. ALL BFP MUST BE LEAD FREE ASSEMBLY.



PLUMBING NOTES:

- PROVIDE CONNECTION TO EXISTING WATER SERVICE IN BACK OF SPACE. PROVIDE WATER METER AND RPZ VALVE. COORDINATE METER REQUIREMENTS WITH VILLAGE. CONNECT TO EXISTING SANITARY AND KITCHEN WASTE STUB IN AS INDICATED. PROVIDE CLEAN OUTS. VERIFY EXACT LOCATIONS IN FIELD.
- VERIFY CONNECTION SIZE AND LOCATION OF ALL ITEMS WITH KITCHEN EQUIPMENT DRAWINGS. PROVIDE SHUT-OFF VALVES AT ALL POINTS OF CONNECTION.
- PROVIDE GAS CONNECTION TO EXISTING METER IN REAR. PROVIDE CONNECTION TO ROOF MOUNTED EQUIPMENT AND TO KITCHEN EQUIPMENT AS INDICATED ON KITCHEN EQUIPMENT DRAWING. PROVIDE SHUT-OFF VALVES AT ALL POINTS OF CONNECTION. PROVIDE SOLENOID SHUT-OFF VALVE FOR GAS ITEMS UNDER KITCHEN HOODS. INTERLOCK WITH HOOD FIRE PROTECTION SYSTEM.

ALL WORK WITHIN THIS SCOPE OF WORK SHALL COMPLY WITH ALL CITY, STATE AND NATIONAL PLUMBING CODES. ALL WORK SHALL CONFORM TO BUILDING STANDARDS.

PLUMBING:
 WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER TUBING WITH WROUGHT COPPER AND BRONZE SOLDER 95-5. JOINTS, SOLDER SHALL BE SILVER. SANITARY SEWER PIPING ABOVE GRADE SHALL BE CAST IRON, ASTM A74 OR CLSP 30. SERVICE WEIGHT. FITTINGS SHALL BE CAST IRON. JOINTS SHALL BE HUB AND SPIGOT COMPRESSION TYPE WITH NEOPRENE GASKETS OR STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES WITH NEOPRENE GASKET. PVC AS ALLOWED BY LOCAL CODE. VENT PIPING SHALL BE GALVANIZED STEEL ASTM A53 SCHEDULE 40, OR PVC AS ALLOWED BY LOCAL CODE.

FLANGES UNIONS COUPLINGS:
 FOR PIPE UNDER 2" USE 150 PSIG MALLEABLE IRON UNIONS FOR THREADED PIPE. BRONZE UNIONS FOR COPPER PIPE. FOR PIPES OVER 2" USE 150 PSIG STEEL FLANGES FOR FERROUS PIPE. BRONZE FLANGES FOR COPPER PIPE. DIELECTRIC CONNECTORS SHALL BE MALLEABLE IRON. GALVANIZED STEEL THREAD END AND COPPER SOLDERED END WITH WATER IMPERVIOUS INSULATION BARRIER. PIPE AND COUPLING SHALL BE MALLEABLE IRON WITH CLAMP TO ENGAGE AND LOCK, DESIGNED TO PERMIT SOME ANGULAR DEFLECTION, CONTRACTION AND EXPANSION.

VALVES:
 GATE VALVES UP TO 2" SHALL BE BRONZE BODY, NON-RISING STEM AND HAND WHEEL WITH EDGE AND RISK THREADED OR SOLDERED ENDS. BALL VALVES SHALL BE BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS, LEVER HANDLE, SOLID BRASS THREADED END SCREWS. POWELL AND STOCKHAM ARE APPROVED MANUFACTURERS. PROVIDE VALVES AS REQUIRED TO ISOLATE ALL FIXTURES AND EQUIPMENT.

PIPE INSTALLATION:
 SLOPE ALL PIPING FOR APPROPRIATE DRAINAGE AT LOW POINTS. ALLOW FOR EXPANSION AND CONTRACTION WITH STRESSING PIPE. PROVIDE NON-CONDUCTING DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR METALS. PROVIDE ACCESS TO ALL VALVES AND CLEAN OUTS. SUPPORT ALL PIPING PROPERLY. EXPAND CLEAN OUT SUPPORTED FROM STRUCTURE USING CLEVIS TYPE PIPE HANGERS.

INSULATION:
 PROVIDE 1" FIBERGLASS INSULATION WITH VAPOR BARRIER ON ALL CW, HW, AND DRAINAGE PIPING. INSULATION SHALL INCLUDE ALL VALVES AND FITTINGS.

SAWCUTTING/DRILLING:
 SAWCUT AND/OR CORE EXISTING FLOORING AS REQUIRED FOR INSTALLATION OF NEW SANITARY PIPING AND CLEAN OUTS. FLOOR TO BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF WORK. PROVIDE SLEEVES WHENEVER PIPING PASSES THROUGH WALLS AND FLOORS.

FLOOR DRAINS:
 DETERMINE LOCATION AND SIZE OF FLOOR DRAINS AND CLEAN OUTS WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR. DRAINS AND CLEAN OUTS BY 2" OR APPROVED EQUAL.

CLEANING AND TESTING:
 CONTRACTOR SHALL FLUSH AND CLEAN OUT ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH AWWA STANDARDS AND ALL LOCAL CODES. SANITARY AND VENT PIPING SHALL BE TESTED PRIOR TO BEING PLACED IN SERVICES.

AIR TEST:
 FILL PIPE SYSTEM WITH AIR AND MAINTAIN 5PSI FOR 15 MINUTES WITHOUT ADDITIONAL AIR.

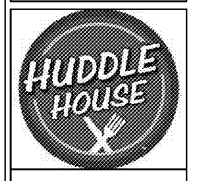
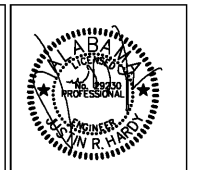
WATER TEST:
 MAINTAIN WATER PRESSURE OF AT LEAST TEN FEET OF HEAD AT ALL POINTS OF SYSTEM FOR AT LEAST 15 MINUTES.

PLUMBING SCHEDULE

MARK	DESCRIPTION	FIXTURE		VALVE / FAUCET		CONNECTIONS		ELECTRICAL			REMARKS		
		MFR	MODEL	MFR	MODEL	WASTE	VENT	CW	HW	VOLTAGE		PHASE	WATTS
WC-1	WATER CLOSET HANDICAP	AMERICAN STANDARD	MADERA #2305.100, WHITE	SLOAN	ROYAL #111	4"	2"	1-1/4"	-	-	-	-	1.10
UR-1	URINAL	AMERICAN STANDARD	ALLBROOK #6541.132, WHITE	SLOAN	ROYAL #186-1	2"	2"	1"	-	-	-	-	-
LV-1	LAVATORY	AMERICAN STANDARD	LUCERNE #0356.015, WHITE	AMERICAN STANDARD	MONTERREY #6530.170	2"	2"	1/2"	1/2"	-	-	-	2.3
FD-1	FLOOR DRAIN	ZURN OR EQUAL	2415 OR 2400	-	-	3"	1-1/2"	-	-	-	-	-	4.11
WH-1	WATER HEATER	A.O. SMITH	CYCLONE BTH-120	-	-	-	-	3/4"	3/4"	120	1	-	-
MS-1	MOP SINK	MUSTEE	63M	-	-	3"	2"	1/2"	3/4"	-	-	-	5
FCO	FLOOR CLEAN OUT	ZURN	CO-2451	-	-	-	-	-	-	-	-	-	6
BFP	BACK FLOW PREVENTER	-	ASSE1012	-	-	-	-	-	-	-	-	-	7
SK-1	HAND SINK	REFER TO DRAWING A010	-	-	-	3"	1-1/2"	1"	1"	-	-	-	8
SK-2	1 COMPARTMENT SINK	REFER TO DRAWING A010	-	-	-	3"	1-1/2"	1"	1"	-	-	-	8
SK-3	3 COMPARTMENT SINK	REFER TO DRAWING A010	-	-	-	3"	1-1/2"	1"	1"	-	-	-	8
GCO	GRADE CLEAN OUT	-	-	-	-	-	-	-	-	-	-	-	-
TP	TRAP PRIMER	PRECISION PLUMBING	PRIME-RITE	-	-	-	-	1/2"	-	-	-	-	-
FS-1	FLOOR SINK	J.R. SMITH	3440	-	-	3"	1-1/2"	-	-	-	-	-	9
HB-1	EXTERIOR HOSE BIBB	ZURN	Z-1321	-	-	-	-	3/4"	-	-	-	-	13
TMV	THERMOSTATIC MIXING VALVE	-	-	-	-	-	-	1"	1"	-	-	-	12

REMARKS:

- PROVIDE WITH AMERICAN STANDARD WHITE OPEN FRONT SEAT LESS COVER #5337.100.
- PROVIDE WITH J. R. SMITH #0700 FLOOR MOUNT LAVATORY CARRIER.
- PROVIDE WITH TRUEBRO LAV GUARD MODEL #102 FOR TRAP AND SUPPLY PROTECTION.
- CAST IRON UNIT WITH GRATE. DRAIN TO BE PRIMED FROM NEAREST FLUSH VALVE.
- PROVIDE WITH AMERICAN STANDARD 8344.111 COMBINATION FAUCET WITH HOSE FITTING AND VACUUM BREAKER - SET 36" AFF.
- PROVIDE WITH NICKEL BRONZE COVER.
- BRONZE DOUBLE CHECK VALVE. A SECONDARY CHECK PER ASSE 1032 SHALL BE INSTALLED ON EACH BEVERAGE DISPENSING UNIT AND WATER FILTER.
- PROVIDE FAUCETS AND ACCESSORIES AS REQUIRED FOR COMPLETE OPERATION.
- DRAIN SHALL BE 12"x12"x10" DEEP WITH CAST IRON FLANGE, ACID RESISTANT COATED INTERIOR, ACID RESISTANT COATED CASE IRON GRATE AND ALUMINUM DOME BOTTOM STRAINER.
- PVC BODIES ARE AN ACCEPTABLE ALTERNATE WHEN PROVIDED WITH A CAST IRON GRATE.
- THERMOSTATIC MIXING VALVE COMPLYING WITH ASSE 1070 AT ALL PUBLIC HAND WASHING SINKS. VALVE MUST BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATIONS. SET FOR 110 DEGREES.
- AUTO DRAINING, FREEZELESS HYDRANT WITH VACUUM BREAKER AND BACKFLOW PREVENTER.



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NO.	ISSUE DATE
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DRAWING NUMBER

P300

PLUMBING SCHEDULE & DETAIL