

PIPE SCHEDULE

SERVICE	MATERIAL	COPPER, TYPE "K"	COPPER, TYPE "L"	DWV-COPPER *	IPS 200 psi PVC w/ RING-TITE JTS.	BLACK STEEL	GALVANIZED STEEL	NO-HUB CAST IRON	VITRIFIED CLAY
WATER	INSIDE								
WATER	OUTSIDE	●	●						
SAINTARY DRAINAGE	INSIDE								DO NOT USE SLIP JOINTS (ACCESS DOOR IS REQUIRED FOR SLIP JOINTS)
SAINTARY DRAINAGE	OUTSIDE								
SAINTARY VENT	INSIDE								
SAINTARY VENT	OUTSIDE								
GAS	INSIDE								
GAS	OUTSIDE								
STORM DRAINAGE	INSIDE								
STORM DRAINAGE	OUTSIDE								
CONDENSATE DRAINAGE	INSIDE								
CONDENSATE DRAINAGE	OUTSIDE								
CONDENSATE DRAINAGE	INSIDE								
CONDENSATE DRAINAGE	OUTSIDE								

PLUMBING CONNECTION SCHEDULE

UNIT NO.	DESCRIPTION	ROUGH-IN CONNECTION SIZES				BRANCH SIZES				REMARKS
		TRAP	S/W	V	CW	HW	CW	HW	HW	
WC-1	WATER CLOSET	INT.	3"	2"	1/2"	--	1/2"	--	1/2"	LOW FLOW TOILET (1.6 GAL PER FLUSH)
SHR-1	SHOWER/TUB	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	LOW FLOW SHOWER HEAD (2.5 GPM)
L-1	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	LOW FLOW FAUCETS (0.5 GPM)
KS-1	KITCHEN SINK	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
W/D	WASHING MACHINE	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
HR-1	HOSE BIBB	--	--	--	1/2"	--	1/2"	--	1/2"	PROVIDE H.B. VACUUM BREAKER.

WATER HEATER SCHEDULE

MFR. & MODEL NO.	LOCATION	SERVICE	BTUH CAPACITY @ 150 PSI @ 90°F	BTUH INPUT @ 90°F	TEMP. RISE	RECOVERY EFFICIENCY	ENERGY FACTOR	REMARKS
RINNAL CONTINUUM V2532W	BALCONY	DOMESTIC	199,000	218	0.5-6.5 GPM	84%	0.82	OUTDOOR UNIT. INSTALL IN WALL LOW NOX

SUMP PUMPS

SYMBOL	DUTY	MFR	MODEL NO.	TYPE	GPM	PD FT	ELECTRICAL		PPM	REMARKS
							H.P.	VOLTS		
P 1	SUMP PUMP	ZOELLER	270	VORTEX IMPELLER	40	14	1/2	120	1	
P 2	SUMP PUMP	ZOELLER	270	VORTEX IMPELLER	40	14	1/2	120	1	

PROVIDE AND INSTALL NEMA 1 RATED PIGGYBACK ALTERNATING PANEL PROVIDE AND INSTALL THREE MERCURY SWITCHES. SEE DETAIL

SUMP EJECTORS

SYMBOL	DUTY	MFR	MODEL NO.	TYPE	GPM	PD FT	ELECTRICAL		PPM	REMARKS
							H.P.	VOLTS		
P 3	SUMP PUMP	ZOELLER	270	VORTEX IMPELLER	45	14	1/2	120	1	
P 4	SUMP PUMP	ZOELLER	270	VORTEX IMPELLER	45	14	1/2	120	1	

PROVIDE AND INSTALL NEMA 1 RATED PIGGYBACK ALTERNATING PANEL PROVIDE AND INSTALL THREE MERCURY SWITCHES. SEE DETAIL

WATER PRESSURE MIN: 85 PSI, MAX: 95  
PRESSURE REGULATOR: 1"

SIZE OF METER: 1"  
AVAILABLE PRESSURE: (SET @ 80 PSI)  
PRESSURE LOSS THRU METER  
PRESSURE LOSS THRU PRESSURE REGULATOR

PRESSURE REQUIRED FOR THE TOPMOST FIXTURE  
PRESSURE LOSS DUE TO ELEVATION 30 X 0.433  
AVAILABLE PRESS FOR OVERCOMING FRICTION  
LONGEST RUN OF PIPING (INCLUDES FITTINGS)

ALLOWABLE FRICTION LOSS: 36.98 PSI  
BASE CALCULATIONS ON 10.0 PSI PER 100 FT  
COLD WATER: 8 FT/SEC VELOCITY  
HOT WATER: 5 FT/SEC VELOCITY  
TYPE "L" COPPER

PIPE SIZE	COLD WATER F.T.	HOT WATER F.V.
1/2"	4	3
3/4"	16	9
1"	31	18
1-1/4"	56	29
1-1/2"	103	47
2"	259	110

PLUMBING FIXTURE SCHEDULE

FIXTURES	PUBLIC USE		RESIDENTIAL USE		QTY.	TOTAL F.U.
	NEW	EXIST.	NEW	EXIST.		
BATH TUB						
DISH WASHER			1.5	1.5	1	1.5
DRINKING FOUNTAIN			0.5	0.5		
HOSE BIBB			2.5	2.5+1.5		
GL. WASHING MASH.			4	4	1	4
KITCHEN SINK			1.5	1.5	1	1.5
LAUNDRY SINK			1.5	1.5		
URINAL (WALL)			4	4		
WATER CLOSET (W)			2.5	2.5	4	10
WATER CLOSET (V)			6	7		
SERVICE SINK			3	1.5		
LAVATORY			1	1	5	6
SHOWER			1	2		
FIXTURE UNIT SUB TOTAL					32	32
FIXTURE UNIT TOTAL						32
EXIST. WATER REQD.						21
TOTAL WATER REQD.						21

No. REVISION DATE

MR. ALI MADANI & MR.HOSSEIN ASHTIANI  
5 UNIT CONDOMINIUMS at  
1327 EUCLID STR., SANTA MONICA, CA-90404



FARZAN ENGINEERING  
1800 BUTLER AVE #305  
W. LOS ANGELES, CA 90025  
Tel. (310) 386 2400; Fax. (310) 479 1565

TITLE SCHEDULES

SCALE DATE  
1/4"=1'-0" 2-19-07

SHEET NUMBER P-1