DOMESTIC WATER AND SEWER FIXTURE UNITS

FIXTURE	QUANTITY	**** COLD WATER ** FU / FIX	TOTAL FU	**** HOT WATER ** FU / FIX	TOTAL FU	**** SOIL OR WASTE **** FU / FIX	TOTAL FU
LAVATORY	6	1	6	0.75	4.5	1	6
SINK	8	2	16	1.5	12	3	24
SHOWER	1	2	2	1.5	1.5	2	2
DRINKING FOUNTAIN	2	0.75	1.5	***	***	1	2
CLOTHES WASHERS (FS-2)	2	5	10	3.75	7.5	5	10
HOSE BIBB	11	2.5	27.5	***	***	***	***
SERVICE SINK	3	3	9	2.25	6.75	3	9
FLOOR DRAIN	14	***	***	***	***	2	28
FLOOR SINK (FS-1)	2	***	***	***	***	2	4
TOTAL FIXTURE UNITS			72		32.25		85

RECLAIMED WATER AND SEWER FIXTURE UNITS

FIXTURE	QUANTITY	RECLAIMED WATER FU / FIX	TOTAL FU	RECLAIMED HOT WATER		**** SOIL OR WASTE **** FU / FIX	TOTAL FU
WATER CLOSET - FLUSH VALVE	7	3.5	24.5	***	***	6	42
URINAL	1	3	3	***	***	5	5
FLUSH DRAIN	24	3.5	101.5	***	***	4	116
HOSE BIBS FOR SMT SYSTEMS	11	***	***	5	55	***	***
TOTAL FIXTURE UNITS			129		55		163

COLD WATER PIPE SIZING TABLE & CALCULATIONS

PIPE SIZE	@ 8 FPS OR 7 PSI/100 FT MAX GPM	MAXIMUM WATER FIXTURE UNITS FLUSH VALVE	FLUSH TANK
1/2"	9	---	8
3/4"	6	---	18
1"	12	5	24
1 1/4"	23	15	55
1 1/2"	35	30	85
2"	65	130	250
2 1/2"	100	250	450

ABOVE INFORMATION FROM CPC TABLES A-2 & A-3 AND CHART A-4

HOT WATER PIPE SIZING TABLE & CALCULATIONS

PIPE SIZE	@ 5 FPS OR 7 PSI/100 FT MAX GPM	MAXIMUM WATER FIXTURE UNITS FLUSH VALVE	FLUSH TANK
1/2"	9	---	8
3/4"	6	---	18
1"	11	5	24
1 1/4"	22	15	55
1 1/2"	28	30	85
2"	50	130	250
2 1/2"	78	250	450

ABOVE INFORMATION FROM CPC TABLES A-2 & A-3 AND CHART A-4

WATER CALCULATIONS

SIZES BASED ON 2007 CALIFORNIA PLUMBING CODE
SIZES BASED ON MAXIMUM FRICTION LOSS FOR TYPE "L" COPPER PIPE.
MAXIMUM SYSTEM VELOCITY OF 8 FEET PER SECOND.
PRESSURE ANALYSIS FOR BUILDING.

1.	MAXIMUM DEVELOPED LENGTH OF PIPING SYSTEM FROM METER OR PRESSURE REGULATOR TO MOST REMOTE OUTLET =	350	FEET
2.	AVERAGE MAXIMUM / MINIMUM WATER PRESSURE AT METER =	80	PSI
3.	WATER METER PRESSURE LOSS =	6	PSI
4.	BACKFLOW - REDUCED PRINCIPLE TYPE PRESSURE LOSS =	10	PSI
5.	PRESSURE REDUCING VALVE (PRV-1) PRESSURE SET AT BUILDING =	64	PSI
6.	MAXIMUM STATIC HEIGHT = 20 FEET X .433 PSI/FO	9	PSI
7.	MINIMUM PRESSURE REQUIRED AT MOST REMOTE FIXTURE =	25	PSI
8.	AVAILABLE PRESSURE FOR WATER SYSTEM =	30	PSI
9.	AVAILABLE PRESSURE DROP PER 100 FEET OF LENGTH =	9	PSI/100 FEET

NATURAL GAS CALCULATIONS

1. SIZES BASED ON 2007 CALIFORNIA PLUMBING CODE
2. NEW GAS SERVICE PRESSURE REQUESTED. LOW PRESSURE
3. SEMPRA GAS TO PROVIDE NEW GAS SERVICE, GAS METER & GAS PRESSURE REGULATOR AT LOCATION SHOWN.

BUILDING 250 FEET
LOW PRESSURE GAS PIPE SIZING TABLE
MAXIMUM DEVELOPED LENGTH 250 FEET

PIPE SIZE INCHES	MAX CFH. CAPACITY
1/2"	23
3/4"	48
1"	90
1 1/4	185
1 1/2	277
2"	534
2 1/2"	851
3"	1,300
4"	3,070
5"	5,550
6"	8,990

EQUIPMENT NATURAL GAS LOAD INFORMATION

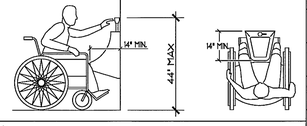
ITEM	BTU/HR
WH-1	76,000
WH-2	150,000
WH-3	150,000
WH-4	150,000
B-1	500,000
B-2	500,000
DRYER	120,000
DRYER	120,000
FUTURE	1,500,000
	3,266,000

PLUMBING EQUIPMENT SCHEDULE

PRV-1	WATER PRESSURE REDUCING VALVES: WATTS REGULATOR NO. 223 SERIES. PRESSURE REDUCING VALVE SHALL HAVE BRONZE BODY AND BRONZE STRAINER. PRESSURE REDUCING VALVE SHALL BE SET AT 80 P.S.I. MAX PRESSURE TO BUILDING.
TP-1	TRAP PRIMER FOR FLOOR DRAIN TRAPS: Z1022 SANI-GUARD TRAP PRIMERS - PROVIDE DISTRIBUTION UNITS AS NECESSARY PROVIDE 14"X14" STAINLESS STEEL ACCESS PANEL FOR MAINTENANCE. PROVIDE SHUT OFF BALL VALVE FOR MAINTENANCE.
WHA-1	WATER HAMMER ARRESTERS: ZURN Z1700 SHOCKTROL PROVIDE 14"X14" STAINLESS STEEL ACCESS PANEL FOR MAINTENANCE. PROVIDE SHUT OFF BALL VALVE FOR MAINTENANCE.
WH-1	DOMESTIC WATER HEATER - POTABLE WATER A.O. SMITH NO. BTX 80 CLYCLONE: DIRECT VENT/SEALED COMBUSTION 120 GPH RECOVERY @ 60 DEGREE F TEMP. DIFF (60 DEGREE F INLET TO 120 DEGREE F OUTLET), 50 GALLON STORAGE CAPACITY 76,000 BTU/HR INPUT, 95% THERMAL EFFICIENCY, 3"CPVC COMBUSTION AIR INTAKE AND EXHAUST ELECTRICAL - 120 VOLT / 1 PHASE FLA = 7 AMPS MAXIMUM FUSE = 15 AMPS. PROVIDE FULL SIZE TEMPERATURE AND PRESSURE RELIEF VALVE PIPING TO FLOOR SINK.. PROVIDE CONDENSATE PIPING FROM WATER HEATER TO FLOOR SINK..
WH-2	REGLAIMED WATER HEATER - NON POTABLE WATER A.O. SMITH NO. BTH 150 CLYCLONE: DIRECT VENT/SEALED COMBUSTION 288 GPH RECOVERY @ 60 DEGREE F TEMP. DIFF (60 DEGREE F INLET TO 120 DEGREE F OUTLET), 100 GALLON STORAGE CAPACITY 150,000 BTU/HR INPUT, 95% THERMAL EFFICIENCY, 4"CPVC COMBUSTION AIR INTAKE AND EXHAUST ELECTRICAL - 120 VOLT / 1 PHASE FLA = 7 AMPS MAXIMUM FUSE = 15 AMPS. PROVIDE FULL SIZE TEMPERATURE AND PRESSURE RELIEF VALVE PIPING TO FLOOR SINK.. PROVIDE CONDENSATE PIPING FROM WATER HEATER TO FLOOR SINK..
WH-3	DOMESTIC WATER HEATER - POTABLE WATER A.O. SMITH NO. BTH 150 CLYCLONE: DIRECT VENT/SEALED COMBUSTION 288 GPH RECOVERY @ 60 DEGREE F TEMP. DIFF (60 DEGREE F INLET TO 120 DEGREE F OUTLET), 100 GALLON STORAGE CAPACITY 150,000 BTU/HR INPUT, 95% THERMAL EFFICIENCY, 4"CPVC COMBUSTION AIR INTAKE AND EXHAUST ELECTRICAL - 120 VOLT / 1 PHASE FLA = 7 AMPS MAXIMUM FUSE = 15 AMPS. PROVIDE FULL SIZE TEMPERATURE AND PRESSURE RELIEF VALVE PIPING TO FLOOR SINK.. PROVIDE CONDENSATE PIPING FROM WATER HEATER TO FLOOR SINK..
WH-4	REGLAIMED WATER HEATER - NON POTABLE WATER A.O. SMITH NO. BTH 150 CLYCLONE: DIRECT VENT/SEALED COMBUSTION 288 GPH RECOVERY @ 60 DEGREE F TEMP. DIFF (60 DEGREE F INLET TO 120 DEGREE F OUTLET), 100 GALLON STORAGE CAPACITY 150,000 BTU/HR INPUT, 95% THERMAL EFFICIENCY, 4"CPVC COMBUSTION AIR INTAKE AND EXHAUST ELECTRICAL - 120 VOLT / 1 PHASE FLA = 7 AMPS MAXIMUM FUSE = 15 AMPS. PROVIDE FULL SIZE TEMPERATURE AND PRESSURE RELIEF VALVE PIPING TO FLOOR SINK.. PROVIDE CONDENSATE PIPING FROM WATER HEATER TO FLOOR SINK..
ET-1	THERMAL EXPANSION TANKS FOR DOMESTIC WATER HEATERS - DIAPHRAGM PRE-PRESSURIZED TYPE AMTROL - THERM-X-TROL MODEL NO. ST-12 . TANK VOLUME 4.4 GALLONS. WALL MOUNTED ON SHELF - OVERALL DIMENSIONS 11" DIAMETER X 15" HIGH - 3/4" SYSTEM CONNECTION
CP-1	CIRCULATING PUMP ARMSTRONG MODEL SS-30B-1 IN-LINE TYPE CIRCULATORS - TWO SPEED 1900 RPM & 2700 RPM. ALL BRONZE 4 GPM @ 10 FEET OF HEAD. 85 WATTS 115 VOLT 1 PHASE - SET FOR LOW (1900 RPM) SPEED. PROVIDE "AQUA -STAT PIPE LINE HEAT SENSITIVE THERMOSTAT AND TIME CLOCK FOR ON/OFF OPERATION
TMV-1	THEMOSTATIC MIXING VALVE - WALL MOUNTED BRONZE BODY AND CAP WITH REPLACEABLE CORROSION RESISTANT COMPONENTS. PROVDE INTEGRAL CHECKSTOPS. LIQUID FILLED THERMAL MOTOR AND PISTON CONTROL MECHANISM WITH POSITIVE SHUT OFF OF HOT WATER WHEN COLD WATER SUPPLY IS LOST
SOI-1	SAND / OIL INTERCEPTOR - ZURN 700 Z1186-ST-E-HD-K - 21 GALLON CAPCITY - 3" PIPE INLET AND OUTLET. DIMENSIONS 48" LONG X 37" WIDE X 20" DEEP. PROVIDE ACID RESISTANT COATING ON INTERIOR AND EXTERIOR. PROVIDE HEAVY DUTY TRAFIC COVER AND ANCHOR FLANGE.

MEDICAL GAS EQUIPMENT SCHEDULE (ADDITIVE ALTERNATE NO. 6)

O-1	WALL MOUNTED OXYGEN QUICK CONNECTION MEDICAL GAS OUTLET STATION: CHEMETRON 500 SERIES, MODEL NO. 64-01-5001 MODULAR WALL QUICK CONNECT SURGERY AND RECOVERY ROOM TYPE MEDICAL GAS OUTLET STATION WITH STAINLESS STEEL. FACE PLATE.
OM-1	OXYGEN MANIFOLD: CHEMETRON SERIES 3000 OXYGEN MANIFOLD LOCATED AT OXYGEN TANKS IN OXYGEN STORAGE RM.
MAP-1	MASTER ALARM PANEL: DIGITAL ALARM SYSTEM, CHEMETRON MODEL NO. 74-14-1001, SIGNAL MASTER ALARM PANEL FOR OXYGEN SYSTEM.
PS-1	PRESSURE SWITCH FOR OXYGEN SYSTEM: CHEMETRON OXYGEN PRESSURE SWITCH. CONTRACTOR TO PROVIDE "TEE" IN SUPPLY PIPING AND INSTALL PRESSURE SWITCH
V-1	WALL MOUNTED VACUUM QUICK CONNECTION MEDICAL GAS OUTLET STATION: CHEMETRON 500 SERIES, MODEL NO. 64-01-5001MODULAR WALL QUICK CONNECT SURGERY AND RECOVERY ROOM TYPE MEDICAL GAS OUTLET STATION WITH STAINLESS STEEL. FACE PLATE. (FOR SCAVENGER SYSTEM).
ZV-1	1/2" ZONE VALVE BOX ASSEMBLY: CHEMETRON MODEL NO. 77-81-1002 MEDICAL GAS ZONE VALVE BOX ASSEMBLY WITH PRESSURE GAUGE FOR OXYGEN SYSTEM.



URINALS:
WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL COMPLY WITH SECTION 1115B. PERSON IN WHEEL CHAIR MUST BE ABLE TO "STRADDLE" FIXTURE TO GET CLOSE ENOUGH.

PLUMBING FIXTURE SCHEDULE

SYMBOL		COLD WATER	REALAIMED WATER	HOT WATER	VENT SIZE	SOIL SIZE	TRAP & ARM	REMARKS:
WC-1	WATER CLOSET WALL MOUNTED. FLUSH VALVE LOW FLOW 1.6 GPF MAX. MEETS CBC ACCESSIBILITY REQUIREMENTS	***	1"	***	2"	4"	INTEGRAL	ZURN NO. Z5610 - 1 1/2" TOP SPUD FLUSH VALVE: ZURN NO. Z-6000AV-NS1 BATTERY OPERATED SENSOR SUPPORT: ZURN Z1203 OR Z1204 SERIES OLSONITE #95 WHITE SEAT WITH OPEN FRONT PER UPC SECTION 408.2.2. SEE ARCH DRAWINGS FOR HEIGHT
WC-2	WATER CLOSET WALL MOUNTED. FLUSH VALVE LOW FLOW 1.6 GPF MAX. STANDARD HEIGHT	***	1"	***	2"	4"	INTEGRAL	ZURN NO. Z5610 - 1 1/2" TOP SPUD FLUSH VALVE: ZURN NO. Z-6000AV-NS1 BATTERY OPERATED SENSOR SUPPORT: ZURN Z1203 OR Z1204 SERIES OLSONITE #95 WHITE SEAT WITH OPEN FRONT PER UPC SECTION 408.2.2. SEE ARCH DRAWINGS FOR HEIGHT
U-1	URINAL FLUSH VALVE WALL MTD. ULTRA LOW FLOW : .125 GPF MAXMUM MEETS CBC ACCESSIBILITY REQUIREMENTS ADULT ADA	***	3/4"	***	1 1/2"	2"	INTEGRAL	ZURN NO. Z5798.205 - 3/4" TOP SPUD ELONGATED 14" RIM FROM WALL. SUPPORT: Z1221 SERIES FLUSH VALVE MAX HEIGHT 44" SEE ARCH DRAWINGS FOR HEIGHT
TPV-1	TRAP FLUSH VALVE	***	1 1/4"	***	***	***	***	ZURN NO. Z6150AV AQUA-VANTAGE CONCEALED FLUSH VALVE. DIAPHRASM TYPE.
DFV-1	DRAIN FLOW VALVE WITH VACUUM BREAKER 1/4 TURN BALL VALVE WITH VACUUM BREAKER CONNECTED TO TRENCH OR FLOOR DRAIN	***	1"	***	***	***	***	NIBCO NO. S-590-Y 1/4 TURN BRONZE BODY BALL VALVE. 3-PIECE BODY WITH CONVENTIONAL PORT PROVIDE CHICAGO FAUCET 842-6CP VACUUM BREAKER AT EACH VALVE
L-1	LAVATORY COUNTERTOP - OVAL SELF RIMMING SELF METERING FAUCET WITH 0.5 GPM LOW FLOW AERATORS FOR LEED CREDIT MEETS CBC ACCESSIBILITY REQUIREMENTS	1/2"	***	1/2"	1 1/2"	2"	1 1/2"	ZURN NO. Z5114 20"x18" OVERALL DIMENSION 3 HOLES ON 4" CENTERS. FAUCET: CHICAGO 802-665ABCP SELF CLOSING ADA TYPE WITH .5 GPM AERATORS FOR LEED CREDIT. ONE PIECE HANDY SHIELD SAFETY COVER FOR LAV TRAP
L-2	LAVATORY WALL HUNG WITH CONCEALED ARM CARRIER VITROUS CHINA SELF METERING FAUCET WITH 0.5 GPM LOW FLOW AERATORS FOR LEED CREDIT MEETS CBC ACCESSIBILITY REQUIREMENTS	1/2"	***	***	1 1/2"	2"	1 1/2"	ZURN NO. Z5344 20"x18" OVERALL DIMENSION 3 HOLES ON 4" CENTERS FAUCET: CHICAGO 802-665ABCP SELF CLOSING ADA TYPE WITH .5 GPM AERATORS FOR LEED CREDIT. ZURN Z1231 SERIES ARM CARRIER SUPPORTS ONE PIECE HANDY SHEILD SAFETY COVER FOR LAV TRAP.
S-1	SINK - SINGLE COMPARTMENT COUNTERTOP - SELF RIMMING TYPE 304 18 GAUGE STAINLESS STEEL CENTER REAR DRAIN MEETS CBC ACCESSIBILITY REQUIREMENTS	1/2"	***	***	1 1/2"	2"	1 1/2"	JUST SL-ADA-2122-A-GR - 3 HOLES 8" CENTERS 21" FRONT TO BACK 22" LEFT TO RIGHT 6.5" DEEP FAUCET: CHICAGO 201-A6NBAE3-319ABCP DRAIN: J-35-SSF-VR GRID DRAIN & JT-150 P-TRAP INSULATOR KIT: J-ADA-150
	COUNTERTOP - SELF RIMMING - DOUBLE COMPARTMENT TYPE 304 18 GAUGE STAINLESS STEEL CENTER REAR DRAINS MEETS CBC ACCESSIBILITY REQUIREMENTS							21" FRONT TO BACK 33" LEFT TO RIGHT 6.5" DEEP FAUCET: CHICAGO 201-A6NBAE3-319ABCP DRAIN: J-35-SSF-VR GRID DRAIN & JT-150 P-TRAP INSULATOR KIT: J-ADA-150
SH-1	SHOWER SHOWER VALVE, HEAD AND HOSE SHOWER HEAD SHALL RESTRICTION TO 1.5 GPM FOR LEED CREDIT MEETS CBC ACCESSIBILITY REQUIREMENTS	1/2"	***	1/2"	***	***	***	SYMMONS NO. S-25-300-B30-X-V. PRESSURE BALANCE MIXING VALVE. SHOWER HEAD SHALL RESTRICTION TO 1.5 GPM FOR LEED CREDIT WALL/HAND SHOWER WITH 5FT IN-LINE VACUUM BREAKER & 30" SLIDE BAR INTEGRAL SERVICE STOPS FOR WATER SHUT OFF.
SCRUB-1	SCRUB SINK TYPE 304 16 GAUGE STAINLESS STEEL WALL MOUNTED WASH UP SINK SENSOR OPERATED FAUCET	1/2"	***	1/2"	2"	3"	3"	JUST J-TTTO-1-S 24" FRONT TO BACK 34" LEFT TO RIGHT 11" DEEP SINK FAUCET: JS6N-6M DECK MOUNTED SENSOR OPERATED THERMOSTATIC MIXING VALVE: JTM-47 DRAIN: J-35-SSF DRAIN PROVIDE SUPPORT BRACKET P-TRAP: J-150 CAST BRASS
LT-1	LAUNDRY TUB TYPE 304 18 GAUGE STAINLESS STEEL STAINLESS STEEL LEGS WITH ANGLE FRAME	1/2"	***	1/2"	1 1/2"	2"	1 1/2"	JUST J-127 27" FRONT TO BACK 27" LEFT TO RIGHT 16" DEEP SINK 33" TALL DRAIN: J-35-FS GRID DRAIN
SS-1	SERVICE SINK WALL MOUNTED 14 GA. TYPE 304 STAINLESS STEEL 1 1/2" DIA. ROLL RIM FRONT & SIDES	1/2"	***	1/2"	2"	3"	3"	JUST A-18665 TVB 2 HOLES 8" CENTERS 18" FRONT TO BACK 23" LEFT TO RIGHT 12" DEEP SINK FAUCET: JVB-1200 WITH VACUUM BREAKER AND BRACE. DRAIN: J-35 WITH CHROME PLATED STRAINER TRAP: CAST IRON P-TRAP NO. JTS-1060 WITH BRONZE C.O.
DF-1	DRINKING FOUNTAIN WALL HUNG - SURFACE MOUNTING - STAINLESS STEEL TWO FOUNTAINS - ADA AND STANDARD HEIGHT MEETS CBC ACCESSIBILITY REQUIREMENTS	1/2"	***	***	1 1/2"	2"	1 1/4 X 1 1/2	HAWS NO. 1119.14 DUAL HEIGHT 14 GAUGE STAINLESS STEEL NO. 4 SATIN FINISH. PROVIDE COMPLETE HAWS MOUNTING SYSTEM MOUNTING PLATE 6700.4
EW-1	EYE WASH AND FACE WASH PIPE EYE WASH BOWL DRAIN TO SEWER. MEETS CBC ACCESSIBILITY REQUIREMENTS	1/2"	***	***	1 1/2"	2"	1 1/2"	HAWS MODEL #7360BT SP60 STAINLESS STEEL BOWL SP64PC HEAD ASSEMBLY WITH SP21PC HEADS CHROME PLATED BALL VALVE WITH SS BALL AND STEM
HB-1	HOSE BIB WALL MOUNTED EXPOSED TYPE WITH FLANGE	3/4"	***	***	***	***	***	ACORN NO. 8126 WITH VACUUM BREAKER AND HANDLE PROVIDE ADDITIONAL PIPE SUPPORT FOR WATER PIPING AT HOSE BIB.
HB-SMT	HOSE BIB - SMT SYSTEM WALL MOUNTED FOR SMT SYSTEM EXPOSED TYPE WITH FLANGE AND SEPARATE SUPPORT	***	3/4"	***	***	***	***	ACORN NO. 8126 WITH VACUUM BREAKER AND HANDLE PROVIDE ADDITIONAL PIPE SUPPORT FOR WATER PIPING AT HOSE BIB.
FD-1	FLOOR DRAIN TRAP PRIMER ROUND STRAINER	***	***	***	1 1/2"	2"	2"	ZURN 415 DURA COATED CAST IRON BODY ASSEMBLY ZURN ZN400 ROUND TYPE 5" DIAMETER ROUND STRAINER HEAD. NICKEL BRONZE STRAINER HEAD. PROVIDE TRAP PRIMER FITTING.
FD-2	FLOOR DRAIN HINGED TYPE STRAINER HEAD NO TRAP OR VENT	***	***	***	***	4"	***	ZURN 415 DURA COATED CAST IRON BODY ASSEMBLY ZURN ZN400C-TC HINGED 7" ROUND DIAMETER NICKEL BRONZE STRAINER HEAD. DO NOT INSTALL SET SCREWS.
FD-3	FLOOR DRAIN - HEAVY DUTY TRAP PRIMER SQUARE STRAINER	***	***	***	***	3"	***	ZURN ZN610 DURA COATED CAST IRON BODY ASSEMBLY HEAVY DUTY 12" X 12" SQUARE STRAINER NICKEL BRONZE STRAINER HEAD.
FFD-1	FLUSHING FLOOR DRAIN FLUSH VALVE FLOOR MOUNTED LOW FLOW 1.6 GPF MAX. STANDARD HEIGHT	***	1 1/4"	***	2"	4"	4"	ZURN NO. Z-1000-FLS1 4" FLUSHING TRAP WITH 1 1/4" FLUSH CONNECTION CAST IRON BODY WITH BRONZE CLEANOUT PLUG CLEANOUT COVER ZURN NO. Z-1457
TD-1	TRENCH DRAIN PRE-SLOPED PERMA TRENCH SYSTEM INSTALL 3/4" RECLAIMED WATER FOR DRAIN FLUSH IN DRAIN END CAPS.	***	(2) 3/4"	***	2"	4"	4"	ZURN NO. Z886 SVF-FS PRE-SLOPED TRENCH DRAIN SYSTEM MODULAR HIGH DENSITY POLYETHYLENE CHANNELS SLOPED AT .75% INTERLOCKING ENDS AND RADIUSED BOTTOMS
FS-1	FLOOR SINK CAST IRON WITH ACID RESISTANT COATED INTERIOR	***	***	***	2"	3"	3"	ZURN 1901-2-32 12" X 12" X 6" DEEP WITH ALUMINUM DOME STRAINER ENAMELED 1/2 GRATE AND FRAME
FS-2	FLOOR SINK CAST IRON WITH ACID RESISTANT COATED INTERIOR	***	***	***	3"	4"	4"	ZURN 1902-2-32 12" X 12" X 10" DEEP WITH ALUMINUM DOME STRAINER ENAMELED 1/2 GRATE AND FRAME
WASH-1	WASHER CONNECTION HOT AND COLD SHUT OFF VALVE WITH VACUUM BREAKER	1 1/4"	***	1 1/4"	***	***	***	1 1/4" NIBCO S-590-Y 1/4 TRUN COLD AND HOT WATER SHUT OFF VALVES 3-PIECE BODY WITH CONVENTIONAL PORT PROVIDE CHICAGO FAUCET 842-6CP VACUUM BREAKER AT EACH VALVE
RD-1	ROOF DRAIN CAST IRON BODY AND DOME FLASHING CLAMP AND GRAVEL STOP	SEE FLOOR PLANS FOR SIZES FOR PIPE SIZE						ZURN ZC100-G-R NO-HUB CONNECTION 15" DIAMETER - LOW PROFILE CAST IRON DOME UNDER DECK CLAMP AND SUMP RECEIVER
OD-1	OVER FLOW DRAIN CAST IRON BODY AND DOME FLASHING CLAMP AND GRAVEL STOP	SEE FLOOR PLANS FOR SIZES FOR PIPE SIZE						ZURN ZC100-89-G-R NO-HUB CONNECTION 15" DIAMETER - LOW PROFILE CAST IRON DOME 2" HIGH WATER DAM, UNDER DECK CLAMP AND SUMP RECEIVER

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	COLD WATER PIPING		FLOOR DRAIN
HW	HOT WATER PIPING		FLOOR SINK
HWR	HOT WATER RETURN PIPING		WALL CLEANOUT
RW	RECLAIMED WATER PIPING		FLOOR CLEANOUT
RHW	RECLAIMED HOT WATER PIPING		SHUT OFF VALVE
	WASTE PIPING BELOW GRADE		PRESSURE REDUCING VALVE
	WASTE PIPING ABOVE GRADE		BACKFLOW PREVENTER
IW	INDIRECT WASTE PIPING BELOW GRADE		TEMPERATURE & PRESSURE RELEIF VALVE
RD	ROOF DRAIN PIPING		UNION
OD	OVERFLOW ROOF DRAIN PIPING		HOSE BIBB
	VENT PIPING		WATER HAMMER ARRESTOR
	UNDERGROUND VENT PIPING		TRAP PRIMER
	TRAP PRIMER WATER BELOW GRADE		POINT OF CONNECTION
CD	CONDENSATE DRAIN PIPING		VENT THRU ROOF
CV	CENTRAL VACUUM PIPING		ELBOW UP
O2	MEDICAL GAS PIPING (OXYGEN)		ELBOW DOWN
GV	MEDICAL GAS VACUUM PIPING		TEE DOWN
G	GAS PIPING		TEE UP
	GAS PRESSURE REGULATOR AND SHUT OFF VALVE		

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	ELEC.	ELECTRICAL
A.F.G.	ABOVE FINISHED GRADE	ELEV.	ELEVATION
ABV.	ABOVE	FLR.	FLOOR
ARCH.	ARCHITECT(URAL)	FT.	FOOT OR FEET
AW	ACID WASTE	G.P.M.	GALLONS PER MINUTE
B/G	BELOW GRADE	RW	RECLAIMED WATER
BEL.	BELOW	I.E.	INVERT ELEVATION
B.F.F.	BELOW FINISHED FLOOR	IW	INDIRECT WASTE
CLG.	CEILING	MAX.	MAXIMUM
(E)	EXISTING TO REMAIN	MFR.	MANUFACTURER
MIN.	MINIMUM		
N.I.C.	NOT IN CONTRACT		
P.O.C.	POINT OF CONNECTION		
SOV	SHUT OFF VALVE		
SS	SANITARY SEWER		
TYP.	TYPICAL		
V.T.R.	VENT THRU ROOF		
U/G	UNDER GROUND		

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CITY OF PALM SPRINGS
PROJECT NO. CP. 07-24

APN: 680-020-010

Issue

Rev	Date	By	Description
1	8/18/09	TH	DD SET
2	10/9/09	BL	PROGRESS SET
3	11/23/09	BL	Bldg. Permit Set
4	01/04/10	BL	Bldg. Permit Re-Submittal
5	01/18/10	BL	Bid Set

NOT FOR CONSTRUCTION

Drawn By	RO
Checked By	DM
Job No.	0903
Issue Date	01/18/10
Scale	1/8"=1'-0"

Reference North

Drawing Title

PLUMBING SCHEDULE

P1.0

Sheet

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