

TRAP PRIMER SCHEDULE

MARK	MANUFACTURER MODEL	NO. OF DRAINS	DISTRIBUTION UNITS	REMARKS
TP-1	PPP/PI-500	REFER TO PLANS	REFER TO PLANS	1, 2

1. INSTALL PER MFR'S INSTRUCTIONS.
2. OR EQUAL.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER MODEL	LOCATION	GENERAL DATA			ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS	
			STORAGE CAPACITY (GAL)	RECOVERY (GPH)	TEMP RISE (°F)	INPUT/ELCOM (KW)	QUANTITY OF ELEMENTS	AMP			V/PH/Hz
EH-1	AO SMITH FXNS-40	JANITOR	40	21	90	55 EA	2	-	208/3/60	550	1, 2, 3

1. NON-SIMULTANEOUS OPERATION.
2. TP4R VALVE.
3. OR EQUAL.

TEMPERING VALVE SCHEDULE

MARK	MANUFACTURER MODEL	dP (PSIG)	GPM	OUTLET TEMPERATURE	INLET SIZE	OUTLET SIZE	REMARKS
TV-1	POWERS LFE480	5	0.5	105°	3/8"	3/8"	1, 2, 3

1. POINT OF USE THERMOSTATIC MIXING VALVE TO BE INSTALLED UNDER ALL HANDSINKS AND LAVATORIES.
2. FACTORY FURNISHED WALL SUPPORT BRACKET.
3. PIPING ARRANGEMENT PER MFR'S INSTRUCTIONS.

DOMESTIC WATER BRANCH PIPE SIZING CALC

PROJECT: LAKE WORTH, FL - IMMUNOTEK PLASMA CENTER DATE: 08-02-2016
PROJECT NO.: L16029 BY: MSA CHECKED BY: PE

STATIC HEAD (S.H.) = 15 FT. x 0.43 = 6.45 P.S.I.
PRESS. AVAIL = 80 SERV PRESS. - (6.45 S.H. - 15 REQ'D PRESS. - METER) = 58.55 PSI
DEVELOPED LENGTH (LONGEST RUN) = 240 FT.
50% FITTING LENGTH = 120 FT.
TOTAL EQUIVALENT LENGTH = 360 FT.
ALLOWABLE FRICTION LOSS/100FT. = (58.55 - 100) = 16.3 P.S.I.

COLD WATER	MAX. FLOW (GPM)	FLUSH TANK F.U.	FLUSH VALVE F.U.	VELOCITY (FPS)
1/2"	2.9	1	-	5.0
3/4"	8.0	10	-	5.6
1"	17.0	24	-	7.0
1 1/4"	30.0	54	13	7.9
1 1/2"	45.0	107	37	8.0
2"	80.0	275	148	8.0

HOT WATER	MAX. FLOW (GPM)	FLUSH TANK F.U.	FLUSH VALVE F.U.	VELOCITY (FPS)
1/2"	2.9	1	-	5.0
3/4"	6.5	7	-	5.0
1"	14.0	20	-	5.0
1 1/4"	18.0	26	-	5.0
1 1/2"	27.0	46	10	5.0
2"	48.0	119	44	5.0

- ### FIRE SPRINKLER NOTES
- SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN, LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE DESIGN BUILD FIRE SPRINKLER SYSTEM.
 - THE DESIGN AND INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 13) AND THE GENERAL REQUIREMENTS OF APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, THE SPECIFIC REQUIREMENTS OF THE LOCAL FIRE PREVENTION BUREAU, AND THE OWNER'S INSURANCE UNDERWRITER.
 - THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLER HEADS, VALVES, ESCUTCHEONS, PIPING, FITTINGS, HANGERS, DRAINS, WET TEST CONNECTIONS, SIGNS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED.
 - ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF FIRE PROTECTION SYSTEMS SHALL BE LISTED AS APPROVED BY UNDERWRITERS LABORATORIES, INC., "LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS" OR APPROVED BY OTHER APPROPRIATE, NATIONALLY RECOGNIZED TESTING LABORATORIES FOR USE IN SPRINKLER SYSTEMS, AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.
 - SPRINKLER HEADS SHALL BE PROVIDED AS REQUIRED AND CONFORM TO THE LATEST EDITION OF NFPA 13.
 - PIPING, PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
 - INSTALL HEADS AT FINISHED HEIGHT WITH ESCUTCHEON, OR DIRECTLY IN REDUCER OF EXTRA LENGTH DROPS RATHER THAN PLUGGING. IF EXTRA LENGTH DROPS ARE INSTALLED, CUT BACK HEADS AFTER CEILING INSTALLATION IN THE CUSTOMARY MANNER.
 - SPRINKLER DROPS ARE TO BE INSTALLED PRIOR TO INSTALLATION OF CEILING SYSTEM THEN REMOVED AND REINSTALLED AFTER INSTALLATION OF CEILING SYSTEM, WITH DROPS MODIFIED, AS REQUIRED. PROVIDE ESCUTCHEONS AT EACH SPRINKLER HEAD.
 - COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK, DIFFUSERS, GRILLES, ELECTRICAL AND PLUMBING PIPING, AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.
 - AFTER SYSTEM IS COMPLETELY INSTALLED, IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS, AND THE REQUIREMENTS OF THE APPLICABLE NFPA BULLETINS.
 - FINAL SHOP DRAWINGS SHALL FIRST BE SUBMITTED TO THE STATE FIRE MARSHAL, FOLLOWING THEIR REVIEW AND APPROVAL, SUBMIT TO THE OWNER'S INSURANCE COMPANY, FOLLOWING THEIR SIGNATURE APPROVAL, THE SHOP DRAWINGS SHALL BE SENT TO THE ARCHITECT FOR CEILING DESIGN COORDINATION ONLY. IF REQUIRED BY ANY REVIEWING AGENT, OR IF REVIEW COMMENTS REQUIRE EXTENSIVE REVISIONS, THE SUBMITTAL SHALL BE REVISED AS REQUIRED AND RESUBMITTED FOR APPROVAL BEFORE SUBMISSION TO THE ARCHITECT'S OFFICE.
 - THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF ALL DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
 - ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED AS REQUIRED AND CONFORM TO THE LATEST EDITION OF NFPA 13.
 - ADDITIONAL PIPING, PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
 - ACTIVATE THE SPRINKLER SYSTEM FOR PROTECTION PURPOSES AS SOON AS DROPS HAVE BEEN COMPLETE IN ANY ONE SECTION OF THE SPRINKLER.
 - ALL SPRINKLER HEADS AND ESCUTCHEONS SHALL HAVE MOUNTING TYPE (FLUSH OR SEMI-RECESSED), FINISH AND COLOR AS SELECTED BY ARCHITECT.
 - ALL SPRINKLERS SHALL BE CENTERED WITHIN THE CEILING GRID, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL OF DRAWINGS TO FIRE DEPARTMENT.

WATER HAMMER ARRESTORS

P.D.I. SYMBOL	FIXTURE UNITS
A	1 - 11
B	12 - 32
C	33 - 60
D	61 - 113
E	114 - 154
F	155 - 330

NOTE: INSTALL AS PER MANUFACTURER MODEL'S RECOMMENDATIONS (P.D.I. = PLUMBING DRAINAGE INSTITUTE STANDARDS.)

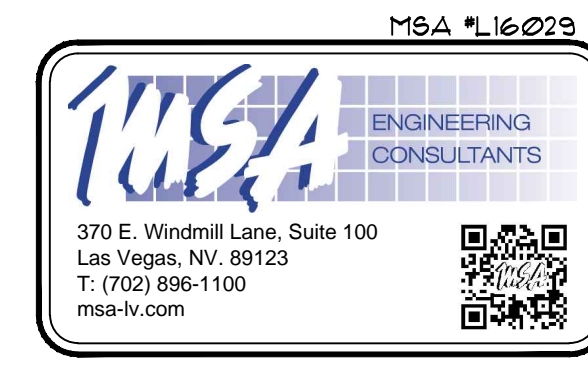
PLUMBING FIXTURE SPECIFICATIONS

MARK	DESCRIPTION
WC-1	WATER CLOSET (ACCESSIBLE) - AMERICAN STANDARD CADET MODEL #2461016, OR EQUAL, FLOOR MOUNTED, VITREOUS CHINA, 2 1/8" TRAPWAY, ELONGATED BOWL, PRESSURE ASSISTED SIPHON JET, 1/2 GPF. SEAT: AMERICAN STANDARD MODEL #301100, OPEN FRONT, LESS COVER. ALT MFG: ZURN, TOTO.
WC-2	WATER CLOSET - AMERICAN STANDARD CADET MODEL #2333100, OR EQUAL, FLOOR MOUNTED, VITREOUS CHINA, 2 1/8" TRAPWAY, ELONGATED BOWL, PRESSURE ASSISTED SIPHON JET, 1/2 GPF. SEAT: AMERICAN STANDARD MODEL #301100, OPEN FRONT, LESS COVER. ALT MFG: ZURN, TOTO.
U-1	URINAL (ACCESSIBLE) - AMERICAN STANDARD MODEL #6501010, OR EQUAL WASHOUT, 1/2 GPF, 3/4" TOP SFD, VITREOUS CHINA, ELONGATED RIM, INTEGRAL TRAP. FLOOR MOUNTED URINAL CARRIER WITH HANGER PLATE, JOBSAM MODEL #1100 SERIES. FAUCET: SYMMONS #5-60-H SCOT METERING FAUCET WITH A MINIMUM 25 SECOND FLOW, 0.5 GPM AERATOR, BLADE TYPE HANDLE, GRID DRAIN. TRAP: 1 1/4" X 1 1/2" ADJUSTABLE P-TRAP. STAINLESS STEEL BRAIDED RISERS WITH LOOSE KEY STOPS. MOUNT TO ADA REQUIREMENTS. PROVIDE LAV GUARDS PER ADA. ALT MFG: ZURN, TOTO.
L-1	LAVATORY (ACCESSIBLE) - CRANE MODEL #304V, OR EQUAL, WALL HUNG, VITREOUS CHINA, WITH FRONT OVERFLOW AND FAUCET LEDGE AT 4" OC. WALL MOUNTED LAVATORY CARRIER WITH CONCEALED ARMS, JOBSAM MODEL #1100 SERIES. FAUCET: SYMMONS #5-60-H SCOT METERING FAUCET WITH A MINIMUM 25 SECOND FLOW, 0.5 GPM AERATOR, BLADE TYPE HANDLE, GRID DRAIN. TRAP: 1 1/4" X 1 1/2" ADJUSTABLE P-TRAP. STAINLESS STEEL BRAIDED RISERS WITH LOOSE KEY STOPS. MOUNT TO ADA REQUIREMENTS. PROVIDE LAV GUARDS PER ADA. ALT MFG: ZURN, TOTO.
L-2	LAVATORY (ACCESSIBLE) - CRANE MODEL #580V, OR EQUAL, VITREOUS CHINA, WITH FRONT OVERFLOW AND FAUCET LEDGE AT 4" OC. FAUCET: SYMMONS #5-60-H SCOT METERING FAUCET WITH A MINIMUM 25 SECOND FLOW, 0.5 GPM AERATOR, BLADE TYPE HANDLE, GRID DRAIN. TRAP: 1 1/4" X 1 1/2" ADJUSTABLE P-TRAP. STAINLESS STEEL BRAIDED RISERS WITH LOOSE KEY STOPS. MOUNT TO ADA REQUIREMENTS. PROVIDE LAV GUARDS PER ADA. ALT MFG: ZURN, TOTO.
S-1	SINK - (ACCESSIBLE) MUSTEE MODEL 10C UTILITY SINK, OR EQUAL, 22"X25"X13-3/4" DEEP, MOLDED FIBERGLASS, ONE-PIECE SEAMLESS CONSTRUCTION WITH SELF-RIMMING EDGE. FAUCET: ELKAY MODEL #K2448BH, BLADE TYPE HANDLES, GOOSENECK, REMOVABLE STRAINER, 1 1/2" ADJUSTABLE P-TRAP. SUPPLY: FLEXIBLE RISERS WITH STOPS.
S-2	SINK - (ACCESSIBLE) ELKAY MODEL F9RAD2219, OR EQUAL, 22"X19 1/2"X5 1/2" DEEP, 20 GAUGE TYPE 304 STAINLESS STEEL, SELF RIMMING FAUCET; ELKAY MODEL #K2448BH, BLADE TYPE HANDLES, GOOSENECK, REMOVABLE STRAINER, 1 1/2" ADJUSTABLE P-TRAP. SUPPLY: FLEXIBLE RISERS WITH STOPS.
EWC-1	ELECTRIC WATER COOLER - (ACCESSIBLE) ELKAY #E21BL6C, OR EQUAL, WALL MOUNT, BARRIER FREE ACCESS, DUAL LEVEL, 8.8 GPH OF 50°F WATER BASED ON 80° INLET / 90°F AMBIENT, 370 WATTS, 4.0 FLA. MOUNT TO ADA REQUIREMENTS. PROVIDE APRON, IF REQUIRED, TO COMPLY WITH ADA REQUIREMENTS. ALT MFG: HAUSS, SUNROC.
MS-1	MOP SINK - FIAT MODEL M5B-2424, OR EQUAL, MOLDED STONE, 24"X24"X10" DEEP. FAUCET: FIAT B30AA, INTEGRAL STOPS, WITH 3/4" HOSE THREAD OUTLET, BUCKET HOOK AND VACUUM BREAKER. ALT MFG: ACORN.
FD-1	FLOOR DRAIN - JAY R. SMITH #2010A, OR EQUAL, CAST IRON BODY, ADJUSTABLE ROUND STRAINER, TRAP PRIMER CONNECTION. ALT MFG: ZURN.
HB-1	ROOF HYDRANT - WOODFORD MODEL RHY2. BACKFLOW PROTECTED, AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT.

PLUMBING FIXTURE SCHEDULE

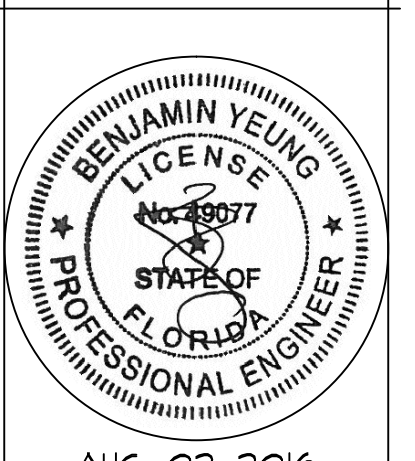
MARK	FIXTURE	ROUGH-IN (INCHES)						REMARKS
		C.W.	T.W.	H.W.	V.	S/W	TRAP	
WC-1	WATER CLOSET	3/4	-	-	2	4	-	FLOOR MOUNT - ACCESSIBLE
WC-2	WATER CLOSET	3/4	-	-	2	4	-	FLOOR MOUNT
U-1	URINAL	3/4	-	-	2	2	-	WALL HUNG - ACCESSIBLE
L-1	LAVATORY	1/2	1/2	-	2	2	1 1/4 X 1 1/2	WALL HUNG - ACCESSIBLE
L-2	LAVATORY	1/2	1/2	-	2	2	-	COUNTERTOP, ACCESSIBLE
S-1	SINK	1/2	-	1/2	2	2	-	COUNTERTOP, ACCESSIBLE
S-2	SINK	1/2	-	1/2	2	2	-	COUNTERTOP, ACCESSIBLE
EWC-1	WATER COOLER	1/2	-	-	2	2	-	ACCESSIBLE
MS-1	MOP SINK	3/4	-	3/4	2	3	-	FLOOR MOUNT
FD-1	FLOOR DRAIN	-	-	-	2	2	-	SIZE AS SHOWN UNLESS NOTED OTHERWISE
HB-1	ROOF HYDRANT	3/4	-	-	-	-	-	

PROVIDE STOPS ON ALL FIXTURES NOT FURNISHED WITH INTEGRAL STOPS. REFER TO PLANS FOR TEMPERED/HOT WATER LOCATIONS.



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project manager: A.D.
drawn by: MSA
file name: LAKEWORTH
revised:
plot scale: AS NOTED
sheet name:
PLUMBING SCHEDULES
sheet no.
MPO.3
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