

GENERAL NOTES:

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL CODES AND PROJECT SPECIFICATIONS.
- B. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL TRADES PRIOR TO CONSTRUCTION TO AVOID INTERFERENCE.
- C. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, TRAPS, ETC.
- D. PROVIDE TRAP GUARDS FOR ALL P-TRAPS FOR FLOOR DRAINS LOCATED IN MECHANICAL ROOMS, PUBLIC RESTROOMS AND OTHER AREAS WHERE TRAP EVAPORATION MAY OCCUR.
- E. PLUMBING CONTRACTOR SHALL CONNECT ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS AND UNDER OTHER SECTIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO COMPLETE THE PLUMBING INSTALLATION.
- F. REFER TO ARCHITECTURAL DRAWING FOR ROUGHING DIMENSIONS OF PLUMBING FIXTURE MOUNTINGS HEIGHTS.
- G. PROVIDE UNIONS FOR ALL PIPING CONNECTIONS TO EQUIPMENT.
- H. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE ENERGY CONSERVATION CODES.
- I. ALL PIPING AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY ONLY. GENERAL ORIENTATION SHOWN IN PLAN AND SECTIONAL DRAWINGS. EXACT LOCATION SHALL BE DETERMINED IN FIELD. MAINTAIN HEAD ROOM AND SPACE CONDITIONS AT ALL TIMES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES BEFORE PROCEEDING WITH INSTALLATION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PRIOR TO EQUIPMENT SUBMITTALS, CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED CONDITIONS SUCH AS CORRIDORS, PASSAGE-WAY ROOM SIZES, ETC. TO ENSURE SPECIFIED EQUIPMENT CAN BE PROPERLY INSTALLED. FABRICATE AND INSTALL ALL PIPING IN ACCORDANCE WITH THE STATE PLUMBING CODE, LOCAL PLUMBING CODE, AND APPLICABLE SECTIONS OF THE BUILDING CODES.
- J. INSTALL PIPING CLOSE TO WALLS, PARTITIONS, CEILINGS, ETC. OFFSET ONLY WHERE NECESSARY TO FOLLOW WALLS, AS INDICATED. PROVIDE ALL NECESSARY FITTINGS, OFFSETS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE INSTALLATION.
- L. INSTALL PIPING IN A CONCEALED MANNER, STRAIGHT, PLUMB AND AS DIRECT AS POSSIBLE. FORM RIGHT ANGLES PARALLEL WITH BUILDING WALLS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER. PIPE SHALL BE LOCATED TO PERMIT ACCESS FOR SERVICE VALVES.
- M. CONCRETE PADS, PITS, AND FLASHING FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
- N. ALL PIPING SHALL BE REAMED TO BE FREE OF BURRS. KEEP PIPING FREE FROM SCALE AND DIRT. PROTECT OPEN PIPE ENDS WHENEVER WORK IS SUSPENDED DURING CONSTRUCTION TO PREVENT FOREIGN MATERIAL FROM ENTERING, AND CAP ALL OPEN ENDS DURING CONSTRUCTION WITH APPROVED TEMPORALLY CAPS OR MATERIALS.
- O. ALL GAS PIPING AND OTHER PLUMBING SYSTEMS SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STATE BUILDING CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). SEAL ALL WALL AND FLOOR PENETRATIONS AROUND NEW PIPES WITH FIRE PROOF CAULKING.
- P. MAINTENANCE LABELS SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND MAINTENANCE AND OPERATION MANUALS SHALL BE PROVIDED TO OWNER.
- Q. INSTALL WELDED OR THREADED PIPE IN AREAS WHERE SPACE IS CRITICAL BETWEEN FINISHED CEILING AND STRUCTURAL SURFACE. INSTALL ALL VENTS THRU ROOF 10'-0" MINIMUM FROM EDGE OF ROOF AND 25'-0" FROM FRESH AIR INTAKES.
- R. SUBMIT ALL REQUIRED PLUMBING DOCUMENTS TO LOCAL PLUMBING OFFICIAL FOR APPROVAL. THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REGULATIONS, AND LOCAL REQUIREMENTS.
- S. SUBMIT APPROVED PRESSURE REDUCING VALVES & BACKFLOW PREVENTION DEVICES TO WATER AUTHORITY. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICES PER WATER AUTHORITY REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
- T. ALL WALL, CEILING AND FLOOR PENETRATIONS CONVEYING PLUMBING AND DRAINS SHALL BE FULLY SEALED AND CAULKED AROUND THE PENETRATING FEATURE TO RESTORE THE REQUIRED FIRE OR SMOKE BARRIER RATING OF THE WALL, CEILING OR FLOOR PENETRATED. AT A MINIMUM, AT ALL LOCATIONS A TWENTY (20) MINUTE FIRE/SMOKE RESISTANCE SHALL BE MAINTAINED. WHERE REQUIRED BY CODE, THE PENETRATING FEATURES SHALL ALSO BE SUPPLIED AND INSTALLED WITH A MECHANISM OR MATERIAL WHICH WILL MAINTAIN THE WALL, CEILING OR FLOOR RATING OF A FIRE.
- U. PLUMBING OR SPRINKLER RELATED PIPE SHALL NOT PENETRATE INTO OR PASS THROUGH STAIRWAYS UNLESS IT IS REQUIRED FOR SERVICING THE STAIRWAY OR IT IS SEGREGATED FROM THE STAIRWAY PASSAGEWAY BY AN ENCLOSURE SYSTEM RATED EQUAL TO OR GREATER THAN THE REQUIRED STAIRWAY RATING.
- V. PROVIDE FLUSH TYPE ACCESS DOORS OR PANELS NO SMALLER THAN 12"x12" AND NO LARGER THAN 30"x30" FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS, AND NON ACCESSIBLE CEILINGS, OR FLOORS.
- W. INSTALL WATER HAMMER ARRESTORS IN COMPLIANCE WITH ALL APPLICABLE CODES. SIZE OF WATER HAMMER ARRESTORS SHALL BE ACCORDING TO THE WATER HAMMER SCHEDULE AND MANUFACTURER'S RECOMMENDATIONS FOR THAT BRANCH LINE.
- X. CLEANOUTS SHALL BE PROVIDED AS INDICATED ON PLANS AND AS REQUIRED BY THE LOCAL CODES.
- Y. PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING OR NEW INVERT ELEVATIONS, LOCATIONS AND PIPE SIZES. INSTALL ALL SANITARY AND WASTE BEGINNING AT LOW POINT OF EACH SYSTEM AND CONTINUE WITH UNBROKEN CONTINUITY OF INVERT. LOW POINT OF EACH SYSTEM SHALL BE COORDINATED WITH SITE UTILITIES CONTRACTOR. REFER TO SITE UTILITY PLANS FOR REFERENCE.
- Z. DRAIN VALVES SHALL BE PROVIDED ON LOWEST POINT OF ALL DOMESTIC WATER RISERS AS FOLLOWS: 1-1/2" OR LESS-PROVIDE 1/2" DRAIN VALVE. 2" OR LARGER-PROVIDE 3/4" DRAIN VALVE.
- AA. DRAIN VALVES SHALL BE PROVIDED ON LOWEST POINT OF ALL DOMESTIC WATER RISERS AS FOLLOWS: 1-1/2" OR LESS-PROVIDE 1/2" DRAIN VALVE. 2" OR LARGER-PROVIDE 3/4" DRAIN VALVE.
- BB. PROVIDE ISOLATION VALVES AT ALL FIXTURES AND EQUIPMENT.
- CC. PLUMBING CONTRACTOR SHALL INSTALL GAS VENTS FOR ALL GAS MANIFOLD/TRAIN SYSTEMS LOCATED AT BOILERS OR WATER HEATERS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS TO DETERMINE MOST ECONOMICAL ROUTE FOR MANIFOLD VENTS BEGINNING AT EQUIPMENT AND EXTENDING THROUGH ROOF.

PLUMBING SYMBOL LIST	
SYMBOL	DESCRIPTION
	POINT OF CONNECTION
NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
	NEW PIPING LOCATED ABOVE FLOOR/SLAB
	NEW PIPING LOCATED BELOW FLOOR/SLAB
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATING PIPING (HWR)
	WATER SERVICE - EXTERIOR
	SANITARY SEWER PIPING
	VENT PIPING (V)
	NATURAL GAS PIPING (G)
	OIL/WATER WASTE PIPING (OW)
	COMPRESSED AIR PIPING (CA)
	ELBOW DOWN
	45° OFFSET
	ELBOW UP
	BOTTOM/TEE CONNECTION
	TOP TEE CONNECTION
	"P" TRAP
	PIPE CONTINUATION
	CAP OR PLUG
	DECK PLATE CLEANOUT (DPCO)
	WALL PLATE CLEANOUT (WPCO)
	CLEANOUT (CO)
	FLOOR DRAIN (FD) / FLOOR SINK (FS)
	WALL HYDRANT (WH) / HOSE BIBB (HB)
	STRAINER
	WATER METER
	SHUT OFF VALVE
	BALANCING VALVE
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	UNION
	BACKFLOW PREVENTER (BFP)
	SHOWER HEAD
	SHOCK ABSORBER (SA)
	RECIRCULATION PUMP
	THERMOMETER
	PRESSURE GAUGE
	DRAWING KEYNOTE

FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	REMARKS
WC-A	WATER CLOSET - PUBLIC - FLUSH VALVE	1"	-	3"	2"	ADA HEIGHT, WALL HUNG, ELONGATED, 1.28 GPF: AMERICAN STANDARD AFWALL. OPEN FRONT TOILET SEAT.
UR-A	URINAL -PUBLIC - FLUSH VALVE	3/4"	-	2"	1-1/2"	WALL MOUNTED, ELONGATED FLUSHING RIM, TOP SPUD, SLOAN G2 OPTIMA PLUS SENSOR BATTERY POWERED, 0.5 GPF: AMERICAN STANDARD WASHBROOK.
LAV-A	LAVATORY - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AMERICAN STANDARD LUCERNE, WALL-HUNG, LAV GUARD
LAV-B	LAVATORY - PUBLIC - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AMERICAN STANDARD, LAV GUARD
SK-A	KITCHEN SINK	1/2"	1/2"	1-1/2"	1-1/2"	ELKAY LUSTERTONE, ADA, STRAINER
SH-A	SHOWER - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AQUATIC ADVANTAGE 16030BFSC, CENTER BRASS DRAIN, SLIP RESISTANT TEXTURED BOTTOM, VINYL FLEXIBLE DAM, REINFORCED FOR FOLDING SEAT AND GRAB BARS, CURTAIN ROD, SOAP DISH, MOEN 8346EP15 POSI-TEMP TRIM KIT, CHROME FINISH, HAND-HELD SHOWER WITH 30" SLIDE BAR, DROP ELL, 69" METAL HOSE, CHROME FINISH, 1.5 GPM.
FD-A	FLOOR DRAIN - STANDARD	-	-	2"	1-1/2"	JAY R SMITH FIGURE 2010,7" ADJUSTABLE STRAINER, TRAP GUARD
FD-B	FLOOR DRAIN - WITH RECESS	-	-	3"	1-1/2"	JAY R SMITH FIGURE 2010, 7" ADJUSTABLE STRAINER, TRAP GUARD, WITH RECESSED, ANTI-FLOOD RIM.
FD-C	FLOOR DRAIN - HEAVY DUTY	-	-	4"-6"	-	JAY R SMITH FIGURE 21243C, 12" NICKEL BRONZE HINGED GRATE, SEDIMENT BUCKET, QUAD CLOSE TRAP SEAL,
TD-A	TRENCH DRAIN SYSTEM WITH CATCH BASIN	-	-	4"-6"	-	ZURN Z882-HDG, GALVANIZED PRE-SLOPED TRENCH DRAIN SYSTEM, HIGH DENSITY POLYETHYLENE, EXTRA HEAVY DUTY 12" WIDE GRATE, EN1433 CLASSIFICATION 'E', GALVANIZED CATH BASIN WITH SEDIMENT BASKET.
EWC-A	WATER COOLER - ADA	1/2"	-	1-1/2"	1-1/2"	ELKAY EZSTL8LC, B1-LEVEL NON-FILTERING, 8 GPH.
EM-SH	EMERGENCY SHOWER AND EYE/FACE WASH	1"	-	-	-	SPEAKMAN SE-603, FREE-STANDING, 20GPM TEPID (60-100 DEG.F.) WATER
SS-A	SERVICE SINK	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD AKRON

BACKFLOW PREVENTER SCHEDULE

NO.	AREA SERVED	USAGE	TYPE	ORIENTATION	INLET/ OUTLET SIZE (IN.)	INLET/ OUTLET SHUTOFF VALVE TYPE	MAX. WORKING PRESSURE (PSI)	FLOW AT 7.5 FPS (GPM)	PRESSURE DROP AT 7.5 FPS (PSI)	DESIGN MAKE
DCDA-1	DPW BLDG	FIRE WATER	DCDA	HORIZONTAL	6"	OSY	175	680	7.0	WATTS 709 DCDA
RPZ-1	DPW BLDG	DOMESTIC WATER	RPZ	HORIZONTAL	3"	OSY	175	170	12.0	WATTS LF909 RPZ
RPZ-2	WASHBAY	WASHBAY EQUIPMENT	RPZ	HORIZONTAL	1"	QUARTER TURN BALL	175	20	10.0	WATTS 009M2-QT-S

AIR COMPRESSOR SCHEDULE

NO.	LOCATION	SERVICE	ACFM	MAX. PRESSURE (PSIG)	MOTOR				TYPE	DESIGN MAKE
COMP-1	COMPRESSOR ROOM	TRUCK BAYS	92.4	175	15	480	3		DUPLEX RECIPROCATING	CHAMPION MODEL HR15-12

- REMARKS:
- INCLUDE 120 GALLON RECEIVER
 - INCLUDE REFRIGERANT DRYER
 - INCLUDE 400 GALLON DRY STORAGE TANK

WATER HEATER SCHEDULE

NO.	SERVICE	STORAGE VOLUME (GAL.)	BTUH INPUT	GALLONS/ HOUR...	TEMP RISE DEG F	FUEL TYPE	VENT IN INCHES	ELECTRIC	EFFICIENCY	DESIGN MAKE	
WH-1	ADMIN	60	1200000	138	100	NAT GAS	3"	120V / 5A	95%	A.O. SMITH CYCLONE MXI BTH 120(A)	
WH-2	VEHICLE MAINT.	60	1200000	138	100	NAT GAS	3"	120V / 5A	95%	A.O. SMITH CYCLONE MXI BTH 120(A)	

MASTER MIXING VALVE SCHEDULE

TAG NO.	SERVICE	TYPE	DESIGN RANGE (GPM)	PEAK FLOW (GPM)	MAX. PRESSURE DROP AT PEAK FLOW (PSI)	CONNECTIONS			DESIGN MAKE
MMV-1	WH-1,WH-2	HIGH/LOW	0.5 - 159	60.0	10	HW INLET	CW INLET	MIXED OUTLET	POWERS LFSH1434

PUMP SCHEDULE

NO.	LOCATION	SERVICE	GPM	HEAD FT WATER	MOTOR				TYPE	DESIGN MAKE
RP-1	MEZZANINE	ADMIN HWR	1.2	13.1	0.5	HP	VOLTAGE	PHASE	RPM	
						208	1		2225	INLINE
										BELL & GOSSETT ECOCIRC XL 55-45

EXPANSION TANK SCHEDULE

NO.	LOCATION	SERVICE	RELIEF PRESSURE	TANK VOLUME (GALLONS)	MAX. ACCEPT FACTOR	DESIGN EQUIPMENT
ET-1	WH-1, WH-2	DOM. WATER	125 PSI	10	1.0	AMTROL ST-35-CL

SHOCK ABSORBER SCHEDULE

NO.	FIXTURE UNIT RATING	SIZE IN INCHES	PDI SYMBOL
SA-A	1 - 11	1/2"	A
SA-B	12 - 32	3/4"	B
SA-C	33 - 60	1"	C
SA-D	61 - 113	1 1/4"	D
SA-E	114 - 154	1 1/2"	E
SA-F	155 - 330	2"	F

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GENERAL NOTES,
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SYMBOL LIST

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