

WATER METER VAULT DIMENSIONS AND CLEARANCES (SEE DETAIL S920-2)							
WATER METER TYPE	WATER METER SIZE (INCHES)	LENGTH WATER METER "A" (INCHES)	MINIMUM DIMENSIONS				
			LENGTH STRAIGHT PIPE "B" (INCHES)	PIPE-WALL "C" (OPPOSITE LADDER SIDE) (INCHES)	LENGTH VAULT INTERIOR (FEET)	WIDTH VAULT INTERIOR (FEET)	MANHOLE OR HATCH CLEAR OPENING (INCHES)
COMPOUND	3"	17"	20"	24"	10'	5'	30"
	4"	20"	20"	24"	10'	5'	30"
	6"	24"	30"	24"	11'	5'	36"
TURBO	6"	18"	30"	24"	10'	5'	30"
	8"	20"	40"	24"	12'	6'	30"
	10"	26"	50"	24"	14'	6'	36"
FIRE SERIES ASSEMBLY	6"	45"	24"	34"	11'	6'	36"
	8"	53"	24"	42"	12'	7'	42"
	10"	68"	24"	42"	14'	7'	48"

NOTES:

- ALL WATER PIPE IN VAULT IS TO BE FLANGED JOINT DUCTILE IRON, CLASS 53 MINIMUM.
- ALL CONNECTIONS IN VAULT ARE TO BE FLANGED, EXCEPT FOR SLIDING WATER PIPE COUPLING. FLANGE ADAPTERS WITH SET SCREWS ARE NOT TO BE USED.
- ALL WATER PIPE OUTSIDE OF VAULT IS TO BE MECHANICAL OR PUSH-ON JOINT DUCTILE IRON PIPE, CLASS 52 MINIMUM (DOMESTIC) OR CLASS 56 MINIMUM (HOLLY). JOINTS ON ALL WATER PIPE, FITTINGS AND VALVES LOCATED WITHIN 12 FEET OF VAULT ARE TO BE RESTRAINED USING APPROVED MECHANICAL JOINT RESTRAINT DEVICES.
- SEPARATE PLATE STRAINER IS REQUIRED FOR ALL COMPOUND AND TURBO METERS.
- VAULTS LOCATED IN UNPAVED AREAS AND NOT SUBJECT TO VEHICULAR TRAFFIC LOADS, ARE TO BE FURNISHED WITH AN ALUMINUM ACCESS HATCH WITH STAINLESS STEEL HARDWARE, AND DESIGNED TO SUPPORT 300 PSF LOAD.
- VAULTS LOCATED IN PAVED AREAS ARE TO BE FURNISHED WITH ALUMINUM ACCESS HATCH, OR CAST IRON FRAME AND COVER, DESIGNED TO SUPPORT AASHTO HS-20-44 WHEEL LOADING.
- IF WATER METER SIZE IS SMALLER THAN SIZE OF WATER SERVICE, PROVIDE ADEQUATE CLEARANCE FOR FUTURE INSTALLATION OF FULL SIZED WATER METER.
- VAULT STRUCTURE IS TO BE PRECAST CONCRETE DESIGNED TO SUPPORT AASHTO HS-20-44 WHEEL LOADING.
- EXTERIOR SURFACE OF VAULT WALLS ARE TO BE COATED WITH BITUMINOUS MATERIAL.
- VAULT JOINTS ARE TO BE SEALED WITH RUBBER GASKET, AND EXTERIOR OF JOINT COATED WITH JOINT COMPOUND MATERIAL.
- INSTALL 6 FOOT 4x4 PRESSURE TREATED WOOD POST ADJACENT TO VAULT FOR INSTALLATION OF REMOTE READ DEVICE. INSTALL 1 INCH DIAMETER PVC CONDUIT FROM INSIDE OF VAULT TO POST, EXTENDING CONDUIT UP TO TOP OF POST. WATER BUREAU WILL INSTALL REMOTE READ OR RADIO READ DEVICE AND ALL WIRE.
- WATER BUREAU WILL FURNISH AND INSTALL A VALVE BOX LOCKING DEVICE ON THE EXTERIOR BYPASS VALVE.
- REFER TO WATER BUREAU'S APPROVED PRODUCT LIST FOR LIST OF APPROVED WATER PRODUCTS.

CITY OF ROCHESTER		
WATER METER VAULT DIMENSIONS AND NOTES		
ISSUED	9-4-01	NON-STANDARD DWG.NO.S920-3
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