



BLOW-OFF ASSEMBLY

1	GATE VALVE SHALL BE FLANGED x MECHANICAL JOINT, RESILIENT SEAT TYPE AS PER AWWA STANDARD C-509. SIZES GREATER THAN 12 INCHES SHALL REQUIRE BUTTERFLY VALVES AS PER AWWA C-504. POLYWRAP
2	FLANGED REDUCER. POLYWRAP.
3	4 INCH FLANGED GATE VALVE WITH RESILIENT SEAT AS PER AWWA STANDARD C-509. POLYWRAP.
4	4 INCH FLANGED DUCTILE IRON PIPE. POLYWRAP.
5	4 INCH FLANGED 90 DEGREE BEND.
6	THRUST BLOCK (TYP.) (SEE STANDARD DETAIL #519).
7	4 INCH FLANGED x I.P.S. ADAPTER AND 4 INCH PLUG.
8	TRACER WIRE AS PER CITY STANDARD DETAIL #513).
9	PROVIDE EXTENSION IF OPERATING NUT EXCEEDS MAXIMUM OF FOUR (4) FEET FROM FINISHED GRADE. EXTENSION SHALL INCLUDE A STEADYING PLATE, UNLESS OTHERWISE DIRECTED BY THE CITY.
10	ASPHALT CONCRETE PAVING TO MATCH EXISTING THICKNESS (MIN. 3").
11	CHRISTY G05T TRAFFIC VALVE BOX AND LID OR APPROVED EQUAL. LID SHALL READ "WATER".
12	MIN 4,000 PSI CONCRETE COLLAR WITH LAMP BLACK PIGMENT ADDED TO MATCH COLOR OF AC PAVEMENT. COLLAR SHALL MATCH ROADWAY SURFACE LEVEL.

13	EIGHT (8) INCH DIAMETER PVC RISER. C-900 OR SDR 35. RISER CASING SHALL BE PLUMB AND OVERLAP VALVE BOX DEPTH BY THREE (3) INCHES.
14	CHRISTY B-1017 TRAFFIC RATED BOX AND LID OR APPROVED EQUAL. CENTER 4" LEVERED BALL VALVE IN BOX. LID SHALL READ "WATER".

NOTES:

- A. APPLICABLE TO WATER MAINS 12 INCHES OR GREATER IN DIAMETER:
 1. BLOW-OFF ASSEMBLIES SHALL INCLUDE A REDUCER DOWN TO 4" IN DIAMETER, A 4" GATE VALVE, A 4" Ø LATERAL PIPE, AND A 4"Ø RISER AS SHOWN EXCEPT AS ALLOWED IN NOTE B.
- B. APPLICABLE FOR WATER MAINS 12 INCHES TO 16 INCHES IN DIAMETER THAT DO NOT EXCEED 200 FEET IN LENGTH:
 1. INSTALL A 2" BLOW-OFF ASSEMBLY PER CITY STANDARD DETAIL #511.
- C. ALL NUTS, BOLTS AND WASHERS ON FLANGED FITTINGS SHALL BE STAINLESS STEEL AND WRAPPED WITH 8 MIL POLYETHYLENE ENCASEMENT.
- D. CONCRETE SHALL BE MIN 4,000 PSI.
- E. APPLICABLE TO CUL-DE-SAC INSTALLATIONS:
 1. INSTALL GATE VALVE "B" AND BLOW-OFF RISER "C".
 2. IF A FIRE HYDRANT IS LOCATED AT THE END OF THE WATER MAIN, A BLOW-OFF IS NOT REQUIRED.
- F. APPLICABLE TO END OF WATER MAIN INSTALLATIONS:
 1. WHEN WATER MAIN INSTALLATION WILL RESUME AT A FUTURE DATE, INSTALL GATE VALVE "A" AND BLOW-OFF RISER "C".
 2. WHEN WATER MAIN INSTALLATION WILL NOT RESUME AT A FUTURE DATE, INSTALL GATE VALVE "B" AND BLOW-OFF RISER "C".
- G. ON WATER MAINS 20" OR GREATER, REDUCER MUST BE ECCENTRIC, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.



APPROVED: Aug. X, 2025

STANDARD
DETAIL #
512

TITLE:
**4" BLOWOFF
ASSEMBLY**

