

BACKFLOW PROTECTION

- A. ALL INDUSTRIAL, COMMERCIAL AND MULTI-FAMILY DWELLING SERVICE CONNECTIONS SHALL HAVE APPROPRIATE BACKFLOW PROTECTION INSTALLED AND MAINTAINED BY OWNER.
- B. ALL RESIDENTIAL SERVICES TO COMBINATION FIRE AND DOMESTIC USE SHALL HAVE DOUBLE CHECK VALVE BACKFLOW ASSEMBLY INSTALLED (EXCEPT RESIDENTIAL WATER FRONT PROPERTIES SHALL HAVE RPPD INSTALLED).
- C. ALL BACKFLOW PREVENTION DEVICES MUST BE TESTED BY A CERTIFIED TESTER AT LEAST ANNUALLY AND IMMEDIATELY AFTER INSTALLATION, RELOCATION OR REPAIR. NO NEW SERVICE SHALL BE DEEMED ACCEPTABLE UNTIL TESTED AND CERTIFIED AFTER INSTALLATION.
- D. ALL BACKFLOW PREVENTION DEVICES MUST BE U.S.C LISTED AND APPROVED BY THE STATE HEALTH DEPARTMENT.
- E. ANY WATER SYSTEM PROVIDED WITH A CHECK VALVE, BACKFLOW PREVENTER, OR ANY OTHER NORMALLY CLOSED DEVICE THAT PREVENTS DISSIPATION OF BUILDING PRESSURE BACK INTO THE WATER MAIN SHALL BE PROVIDED WITH AN APPROVED, LISTED, AND ADEQUATELY SIZED EXPANSION TANK OR OTHER APPROVED DEVICE HAVING A SIMILAR FUNCTION TO CONTROL THERMAL EXPANSION, PER BUILDING DIVISION.
- F. EXISTING FIRE SERVICES REQUIRING REPAIRS SHALL HAVE THE BACKFLOW PROTECTION UPGRADED TO COMPLY WITH STD. PLAN 618, AS A MINIMUM AND SHALL REQUIRE A SUB-APPROVAL/PERMIT CLEARANCE BY A UTILITY CROSS-CONNECTION CONTROL SPECIALIST, AND FIRE DEPARTMENT INSPECTOR. FIRE DEPARTMENT CONNECTION (FDC) SIZE, LOCATION, AND ELEVATION PER FIRE DEPARTMENT REQUIREMENTS AND WILL REQUIRE SEPARATE PERMIT FROM FIRE DEPARTMENT.
- G. AFTER ABANDONMENT AND REMOVAL OF CHECK-VALVE AND VAULT, REPAIR PAVEMENT PER STD 606 OR REPLACE SIDEWALK PER CITY STANDARD.
- H. ALL SEPARATE IRRIGATION WATER SERVICE CONNECTIONS SHALL HAVE SEPARATE RPPD'S AS APPROVED BY THE UTILITY CROSS-CONNECTION CONTROL SPECIALISTS.
- I. ALL WORK PERTAINING TO BACKFLOW DEVICES SHALL BE INSPECTED BY THE PUBLIC WORKS WATER INSPECTOR. FOR NON-RESIDENTIAL PROPERTIES ALL PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL ALSO BE INSPECTED BY THE UTILITY CROSS CONNECTION CONTROL SPECIALIST. FOR RESIDENTIAL PROPERTIES ALL PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL BE INSPECTED BY BUILDING DIVISION.
- J. NO PERSON SHALL FILL SPECIAL USE TANKS, TANKERS, OR VAULTS CONTAINING SEWAGE, PESTICIDES, FERTILIZERS, UNAPPROVED AUXILIARY WATER, OR TOXIC CHEMICALS OR THEIR RESIDUES EXCEPT AT A LOCATION EQUIPPED WITH AN APPROVED AIR GAP (2 X DIAMETER OF SUPPLY PIPE WITH A MINIMUM GAP OF 1"). NO SUPPLIER OF WATER SHALL PERMIT THE FILLING OF SUCH SPECIAL USE CONTAINERS EXCEPT AT LOCATIONS SO EQUIPPED, REFER TO STANDARD PLAN 609E.
- K. MINIMUM METER AND BACKFLOW DEVICE SIZE IS PER FIRE DEPARTMENT AND/OR BUILDING DIVISION REQUIREMENTS.

APPROVED:

Tom [Signature]

CITY ENGINEER

DATE: 02/15/17

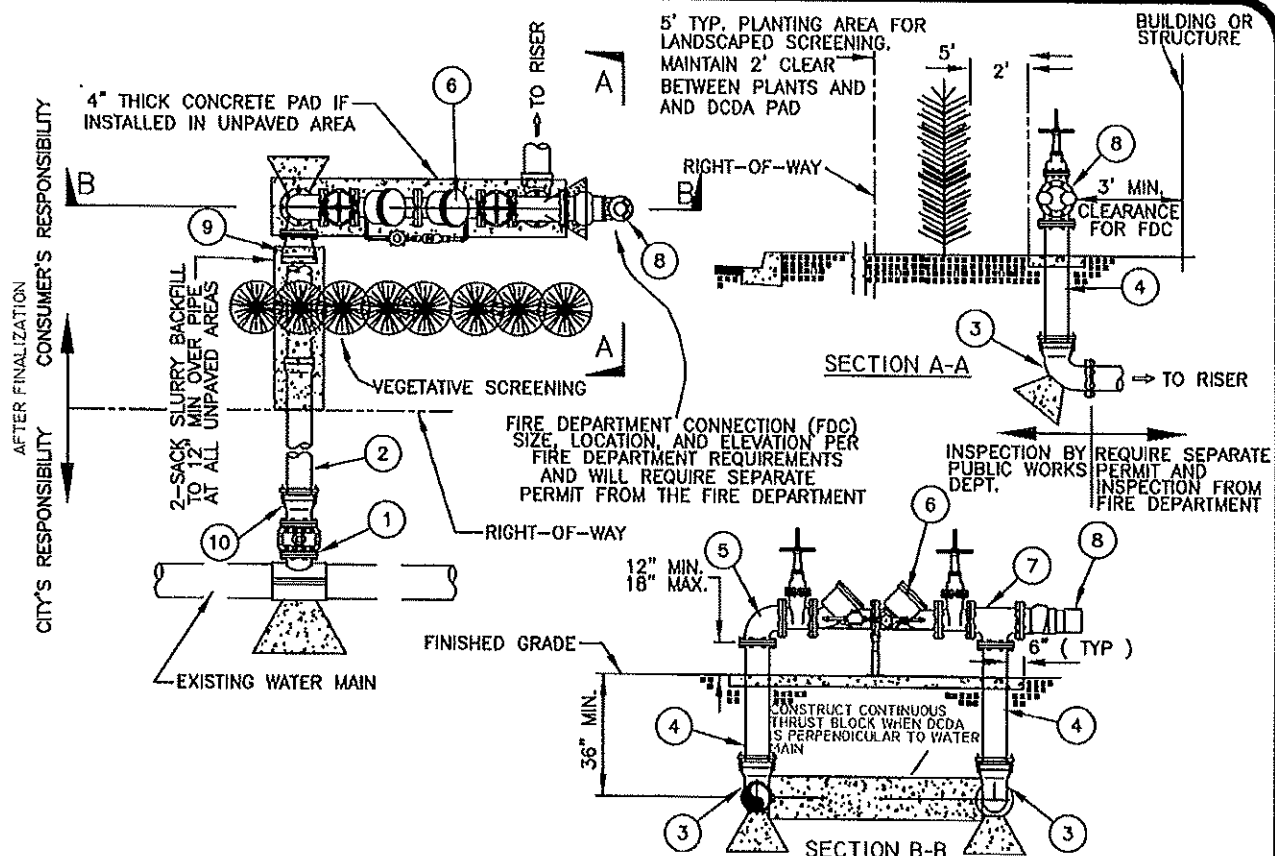
CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



BACKFLOW PROTECTION NOTES

STANDARD PLAN
609
PAGE 2



GENERAL NOTES:

1. ALL DUCTILE IRON SPOOLS SHALL BE ONE PIECE, CLASS 53, FLANGED, AND SHALL BE INSTALLED PER THE CITY OF HUNTINGTON BEACH STANDARD PLANS AND SPECIFICATIONS.
2. ALL FASTENERS SHALL BE TYPE 316 STAINLESS STEEL.
3. PIPE SUPPORT(S) ARE REQUIRED PER STANDARD PLAN 616.
4. ALL ABOVE GROUND PIPING, INCLUDING BACKFLOW DEVICE, SHALL BE PAINTED ACCORDING TO SPEC. 02087.2. THE MARKINGS, INDICATION FLOW, SIZE, MODEL NUMBER, AND SERIAL NUMBER SHALL BE PERMANENTLY FIXED TO THE BODY OF THE BACKFLOW DEVICE, AND MUST REMAIN VISIBLE AFTER PAINTING.
5. CONTRACTOR MUST POSSESS AN A OR C34 CONTRACTORS LICENSE TO PERFORM THE FIRE SERVICE CONSTRUCTION.
6. ALL FITTINGS SHALL BE DUCTILE IRON.
7. ALL FITTINGS SHALL BE INSTALLED PER STANDARD PLAN 614.
8. IMMEDIATELY AFTER INSTALLATION, RELOCATION, OR REPAIR, ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER APPROVED BY THE CITY OF HUNTINGTON BEACH. NO SERVICE SHALL BE DEEMED ACCEPTABLE UNTIL THE DEVICE IS TESTED AND CERTIFIED AFTER INSTALLATION.
9. RPDA REQUIRED FOR USE WITH FIRE FOAM SYSTEM OR WITH WHARF HYDRANT SYSTEM.

ITEM	DESCRIPTION	SPECIFICATION	QTY
①	TEE AND VALVE OR TAPPING TEE AND VALVE, PER STD. 619, 4" MIN OR DCDA SIZE WHICH EVER IS GREATER	02085.9	1
②	PVC PIPE OR D.I. PIPE LATERAL. (4" MIN.) SEE APPROVED PROJECT DRAWINGS.	02510.9	AR
③	D.I. 90° ELL, CL.350, FLANGED OR MJ RESTRAINED, P.E. WRAPPED, W/THRUST BLOCK PER STANDARD 614.	02510.1	1
④	D.I. FLG X MJ, TC 53, P.E. WRAPPED - LENGTH AS REQUIRED.	02510.1	2
⑤	D.I. 90° ELL, CL. 350, FLG. X FLG. (TYP)	02510.1	1
⑥	DOUBLE CHECK DETECTOR CHECK (2.5" MIN.), WITH 3/4" METER, NON-TOUCH READ PER CALIFORNIA DEPARTMENT OF PUBLIC HEALTH APPROVED LIST, AND SIZE PER FIRE DEPARTMENT	02087.2	1
⑦	D.I. FLANGED TEE, CL. 350, WITH FLANGED BRANCH, FOR FDC	02085.9	1
⑧	MINIMUM DIAMETER PER FIRE DEPT. WITH APPROVED CHECK VALVE AND FDC	--	--
⑨	REDUCER IF REQUIRED FLG OR MJ RESTRAINED	02510.1	AR
⑩	FLG X PO ADAPTER	02510.1	1

APPROVED:

Tom [Signature]

CITY ENGINEER

DATE: 11/17/16

CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS

2.5" - 10" DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) (FIRE SERVICE ONLY)

STANDARD PLAN
618