

XXI
FL5

32'-9"

FILTER NO. 9

1" PIPE SUPPORTS

1/8" Ø HOLES THRU 1 1/2" CPVC
LATERALS @ 8" O.C. STAGGER
HOLES ON ALTERNATE LATERALS

6" CPVC SURFACE WASH PIPE

NOTE: VALVES REPLACEMENT

A. CONTRACTOR SHALL REMOVE THE EXISTING GATE VALVES AND REPLACE WITH THE FOLLOWING NEW BUTTERFLY VALVES IN EACH OF THE SIX (6) 1954 FILTER UNITS.

ITEM	SIZE	OPERATOR	FUNCTION	MANUAL OVERRIDE
1.	6"	HYDRAULIC CYLINDER	REWASH WATER	YES
2.	8"	HYDRAULIC CYLINDER	SURFACE WASH WATER	YES
3.	14"	HYDRAULIC CYLINDER	EFFLUENT RATE CONTROL	NO
4.	20"	HYDRAULIC CYLINDER	BACKWASH WATER	YES
5.	24"	HYDRAULIC CYLINDER	WASTE WATER	YES
6.	24"x38"	HYDRAULIC CYLINDER	FILTER INFLUENT VALVE	YES

B. INSTALL ALL THE FLANGE TO FLANGE POOL PIECES OR SPACERS TO THE LENGTH REQUIRED.

C. CONNECT ALL THE HYDRAULIC CYLINDER OPERATORS TO THE EXISTING HYDRAULIC LINES AND THE SOLENOID ASSEMBLY AS SHOWN ON DWG. FL8.

D. ALL THE VALVES, POOL PIECES & SPACERS SHOULD BE INSTALLED WITH NEW GASKETS ACCORDING TO AWWA STANDARD.

E. CONTRACTOR SHALL RESTORE THE PIPE SUPPORTS UNDER THE 20"x20"x14" TEES.

FILTER NO. 7

REMOVE EXISTING 8" GATE VALVE AND INSTALL 8" BUTTERFLY VALVE w/ CYLINDER OPERATOR (TYP.)

REMOVE EXISTING 24" GATE VALVE AND INSTALL 24" BUTTERFLY VALVE w/ CYLINDER OPERATOR (TYP.)

REMOVE EXISTING 20" GATE VALVE AND INSTALL 20" BUTTERFLY VALVE w/ CYLINDER OPERATOR (TYP.)

REMOVE EXISTING 6" GATE VALVE AND INSTALL 6" BUTTERFLY VALVE w/ CYLINDER OPERATOR (TYP.)

REMOVE EXISTING 14" GATE VALVE AND INSTALL 14" BUTTERFLY VALVE w/ CYLINDER OPERATOR (TYP.)

REMOVE EXISTING RATE CONTROLLER AND INSTALL 14" LOW LOSS VENTURI TUBE (TYP.)

PLAN

SCALE: 1/4" = 1'-0"

SECTION XX
FL5

SCALE: 1/4" = 1'-0"

SCALE OF DRAWING 1/4"=1'-0"

16"x9"x2'-8" CONC. SLAB

24" x 38" RECTANGULAR BUTTERFLY VALVE. SEE DETAIL ON DWG. NO. FL4

FILTER NO. 5

REMOVE EXISTING DRESSER COUPLING, CUT 20" C.I. AS REQD. TO INSTALL 20" MONOFLANGED BUTTERFLY VALVE w/ MANUAL OPERATOR. SEE DWG. NO. FL8, FOR SUPPORT DETAILS.

4" @ EL. 1155.30

24" MONOFLANGED BUTTERFLY VALVE w/ MANUAL OPERATOR. SEE DWG. NO. FL8, FOR SUPPORT DETAILS

FILTER NO. 6

SECTION XXI
FL5

SCALE: 1/4" = 1'-0"

DRAWING OF RECORD

DATE: SEP 30 1997

MATTERN & CRAIG

CONSULTING ENGINEERS • SURVEYORS
ROANOKE VIRGINIAALVORD, BURDICK & HOWSON
ENGINEERS CHICAGO

DESIGNED:

R.S.T.C.

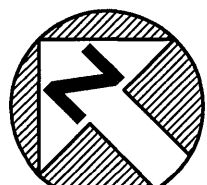
W.G.N.

DRAWN:

L.M.J.

CHECKED:

Y.T.L.



REV.	DATE	DESCRIPTION	BY	APP.

CARVINS COVE FILTER PLANT IMPROVEMENTS - PHASE I
ROANOKE, VIRGINIA

1954 FILTER PIPING IMPROVEMENTS

DATE

APRIL 1992

COMM. NO.

9130

SHEET

FL5

PLAN NO. 6199