

WATERLINE A PROFILE PROFILE

All Bends Rood, mcdgahys and concrete

G.C. TO MAINTAIN 3' MINIMUM COVER (TYPICAL)

8" G.V.

8" PVC WATERLINE

45° HB

CONNECTION TO EX. WATERLINE

24" STORM G.C. TO PROVIDE 45° BENDS AS REQUIRED TO ENSURE 18" MIN. SEP. BLOW-OFF VALVE AT LOW POINT

CONCRETE

(4) SERVICE CONNECTIONS

6" S.S. LATERAL

8" W.L.

G.C. TO PROVIDE 45° BENDS AS REQUIRED TO ENSURE 18" MIN. SEP. BLOW-OFF VALVE AT LOW POINT

G.C. TO PROVIDE A MIN. CONTINUOUS PIPE SECTION OF 15' UNDER THE PROPOSED UTILITY CROSSING

24" separation

8"x8" TEE (CONNECT TO FIRE HYDRANT)

8"x8" TEE (CONNECT TO WATERLINE B)

G.C. SHALL UTILIZE RESTRAINED JOINTS FOR THE PVC PIPE SHOWN

8" SANITARY SEWER W/ CONC. CRADLE BETWEEN UTILITIES

15" STORM G.C. TO ENSURE MINIMUM 18" SEP.

6" S.S. LATERAL W/ CONC. CRADLE BETWEEN UTILITIES

8"x8" TEE (CONNECT TO FIRE HYDRANT)

8" SANITARY SEWER MAIN

G.C. SHALL PROVIDE A DIRECTIONAL BORE FOR 8" WATERLINE CONNECTION TO EX. 10" WATERLINE (DIRECTIONAL DRILL PIPE MATERIAL SHALL BE 8" HDPE PIPE (DR-11) (MIN. 200 PSI)

15" STORM SEWER W/ CONC. CRADLE BETWEEN UTILITIES

DALE AVENUE

8"x10" TEE (CONNECT TO ex. WATERLINE)

G.C. SHALL TRANSITION FROM HDPE TO DIP AT THE CONNECTION POINT

926.00	926.63	926.23	926.11	926.08	926.30	926.52	926.14	926.40	927.77	927.17	926.53	926.95	926.41	926.26	926.05	925.01	925.10	924.80	924.45	925.04	925.28	925.52	924.42	916.63
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Profile view of a sewer line showing existing and finished grades, elevations, and stationing. The profile includes a storm sewer crossing and a manhole. Key data points include:

- Station 0+00 to 0+50: 59.7 LF @ 2.89% slope, 8 inch SOR-35 PVC
- Station 0+50 to 1+00: 8.5 LF @ 2.82% slope, 8 inch SOR-35 PVC
- Station 1+00 to 1+50: 244.2 LF @ 0.40% slope, 8 inch SOR-35 PVC
- Station 1+50 to 2+00: 15 inch storm sewer crossing
- Station 2+00 to 2+50: 15 inch storm sewer crossing
- Station 2+50 to 3+00: 15 inch storm sewer crossing
- Station 3+00 to 3+50: 15 inch storm sewer crossing
- Station 3+50 to 4+00: 15 inch storm sewer crossing
- Station 4+00 to 4+50: 15 inch storm sewer crossing
- Station 4+50 to 5+00: 15 inch storm sewer crossing
- Station 5+00 to 5+50: 15 inch storm sewer crossing
- Station 5+50 to 6+00: 15 inch storm sewer crossing
- Station 6+00 to 6+50: 15 inch storm sewer crossing

The profile also shows a manhole at station 3+00 and a storm sewer crossing at station 1+50. The finished grade is shown as a dashed line, and the existing grade is shown as a solid line. The profile is labeled with "EXISTING GRADE" and "FINISHED GRADE". The profile is also labeled with "15 inch STORM G.C. SHALL PROVIDE CONC. CRADLE BETWEEN STORM AND SANITARY LINES AT CROSSING". The profile is also labeled with "NOT INSTALLED".

(A) S.S. MANHOLE
TOP=924.8
INV. IN=921.67 (STRUCTURE B)
INV. OUT=921.57 (STRUCTURE J)

(A)-(B) 244.2 LF OF 8" PVC OF SDR-35 AT 0.40%

(B) S.S. MANHOLE
TOP=927.9
INV. IN=922.75 (STRUCTURE F)
INV. IN=922.75 (STRUCTURE C)
INV. OUT=922.85

(B)-(C) 150.3 LF OF 8" PVC SDR-35 AT 0.40%

(C) S.S. MANHOLE
TOP=922.9
INV. IN=923.45 (STRUCTURE G)
INV. IN=923.45 (STRUCTURE D)
INV. OUT=923.35

(C)-(D) 139.8 LF OF 8" SDR-35 AT 0.40%

(D) S.S. MANHOLE
TOP=927.45
INV. OUT=924.01

(B)-(F) 23.3 LF OF 8" PVC SDR-35 AT 0.43%

(F) S.S. MANHOLE
TOP=927.44
INV. IN=922.95 (STRUCTURE I)
INV. OUT=922.85

(F)-(I) 72 LF OF 8" PVC SDR-35 AT 0.40%

(I) S.S. CLEANOUT
TOP=927.8
INV. OUT=923.24

(C)-(G) 32.4 LF OF 8" PVC SDR-35 AT 0.40%

(G) S.S. CLEANOUT (TRAFFIC BEARING)
TOP=928.5
INV. IN=923.68 (STRUCTURE H)
INV. OUT=923.58

(G)-(H) 82.4 LF OF 6" PVC SDR-35 AT 0.40%

(H) S.S. CLEANOUT
TOP=929.90
INV. OUT=924.01

(A)-(J) 59.7 LF OF 8" PVC SDR-35 AT 2.89%

(J) S.S. MANHOLE
TOP=923.0
INV. IN=919.84 (STRUCTURE A)
INV. OUT=919.74 (STRUCTURE 59)

(J)-(59) 8.5 LF OF 8" PVC SDR-35 AT 2.82%

[illegible]

Profile view of a sewer line. The vertical axis shows elevation from 900 to 950 feet. The horizontal axis shows stationing from -0+50 to 1+50. The diagram shows an existing ground line and a finished ground line. A waterline is shown at a depth of 8 feet below the finished ground. A sewer pipe is shown at a depth of 8 feet below the waterline. The sewer pipe is labeled '23.3 LF Ø 43.8 8" SDR-35 PVC'. The waterline is labeled '8" WATERLINE G.C. TO PROVIDE A CONC. GRADE 18" SEPARATION IS NOT MAINTAINED BETWEEN THE UTILITIES.' The sewer pipe is shown with a manhole at station 0+00 and a manhole at station 0+50. The manhole at 0+00 is labeled 'B' and the manhole at 0+50 is labeled 'F'. The sewer pipe is shown with a slope of 0.438%.

Profile View Data:

Station	Elevation (ft)	Description
0+00	926.90	Top of Sewer
0+00	926.96	Bottom of Sewer
0+50	927.07	Top of Sewer
0+50	927.23	Bottom of Sewer

Abandon 2" Pipe
Line →
10" Existing well
Fallon Park

SIDE VIEW

Labels for Side View:

- STEEL STRAP SECURELY ANCHORED TO CONCRETE ANCHOR BLOCK
- DRILL AND EPOXY ANCHORS WITH MIN. 6" EMBEDMENT
- 18" HOPE STORM SEWER PIPE
- MIN. 2" CLEAR
- #5 BARS @ 12" O.C. (CONTINUOUS BARS)
- FINAL GRADE
- * 3' DEPTH OR UNTIL BEDROCK IS ENCOUNTERED

FRONT VIEW

Labels for Front View:

- 18" HOPE STORM SEWER PIPE
- EX. 18" CMP HALF PIPE
- 3.5'

PLAN VIEW

Labels for Plan View:

- 10"
- 3.5'
- 18" HOPE STORM SEWER PIPE

NOTES:

1. MIN. CONC. STRENGTH - 3,500 PSI @ 28 DAYS.

STORM SEWER ANCHOR BLOCK

N.T.S.

CP140066 FIELD REVISION 5

N/
2

$$\frac{z}{2}$$

PARKSIDE COMMONS
DALE AVENUE
UTILITY PROFILES
CITY OF ROANOKE, VIRGINIA

DRAWN BY BTC
DESIGNED BY BTC
CHECKED BY CPB
DATE 7/24/2015 FR#5
SCALE AS SHOWN
REVISIONS:
As built
12/03/2015

SHEET NO.
C11
JOB NO. R1400045.02