# CARLSON CIRCLE

**NOTES:**

1. VERIFY LOCATION AND ELEVATIONS OF EXISTING UTILITIES.
2. CONTACT "GOPHER STATE ONE CALL" FOR LOCATIONS OF BURIED UTILITIES. CALL (651) 454-0002 OR 1 (800) 252-1166.
3. 4" P.V.C., SDR 26, SANITARY SEWER SERVICES.
4. 1", TYPE "K" COPPER, WATER SERVICE.
5. VALVES TO BE PLACED 3' FROM HYDRANT.
6. HYDRANTS TO BE 8'-6' BURY.

STA. 3+20
8"X4" WYE
57LF-4" PVC
SEW INV. 991.23 ⊕ MAIN
47LF-1" COPPER
7

STA. 2+59
8"X4" WYE
33LF-4" PVC
SEW INV. 990.74 ⊕ MAIN
20LF-1" COPPER
8

STA. 1+70
8"X4" WYE
33LF-4" PVC
SEW INV. 990.03 ⊕ MAIN
22LF-1" COPPER
9

STA. 0+80
8"X4" WYE
35LF-4" PVC
SEW INV. 989.31 ⊕ MAIN
21LF-1" COPPER
10

STA. 3+34
8"X4" WYE
53LF-4" PVC
SEW INV. 991.34 ⊕ MAIN
51LF-1" COPPER
6

HYD W/6" GV
8"x6" REDUCER
5' BEHIND CURB
STA. 3+51.36 42.0'RT.

45° BEND

CONSTRUCT SURMOUNTABLE CURB AND GUTTER

22-1/2° BEND

196TH AVENUE NW

STA. 3+29
8"X4" WYE
64LF-4" PVC
SEW INV. 991.30 ⊕ MAIN
63LF-1" COPPER
5

MH 8 MH 7 MH 6

TC 1001.72 TC 1001.39 TC 999.62 TC 1002.79 TC 1001.72 TC 1001.39 TC 999.62

R=35(TYP.) R=20'(TYP.)

STA. 3+24
8"X4" WYE
65LF-4" PVC
SEW INV. 991.26 ⊕ MAIN
73LF-1" COPPER
4

STA. 2+72
8"X4" WYE
44LF-4" PVC
SEW INV. 990.85 ⊕ MAIN
46LF-1" COPPER
3

STA. 1+87
8"X4" WYE
34LF-4" PVC
SEW INV. 990.17 ⊕ MAIN
42LF-1" COPPER
2

STA. 1+10
8"X4" WYE
35LF-4" PVC
SEW INV. 989.55 ⊕ MAIN
42LF-1" COPPER
1

SEE SHEET U2

DODGE ST.

SIDEWALK INSTALLED ON NORTH SIDE OF 196TH LANE NW

NORTH
0 20
0 VERT. 5

RECORD DRAWING - JANUARY 2004

DRAWN MBW
DATE 1/26/04
SCALE 1"=20'
PROJECT R101.001
CHECKED
APPROVED

**SANITARY SEWER, WATERMAIN, STORM SEWER AND STREET CONSTRUCTION**
**HILLSIDE ESTATES 9TH ADDITION**
**196TH LANE NW**
**STA. 0+00 TO 5+00**
CITY OF ELK RIVER, MINNESOTA

OWNER/DEVELOPER
**RIVERSIDE COMPANIES**
19230 EVANS STREET, SUITE 115
ELK RIVER, MINNESOTA
PHONE: 763-241-1801


METRO
LAND SURVEYING & ENGINEERING
418 East County Road D, Little Canada, MN 55117
Telephone (651)766-0132 Fax: (651)766-0612
E-mail: metro@metrosurveying.com


I HEREBY CERTIFY THAT THIS PLAN, REPORT OR SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
JOHN C. JOHNSON
DATE 3/21/05 LICENSE NO. 11546

| DATE | REVISIONS | BY |
|---|---|---|
| 6/25/03 | PER CITY REVIEW | PK |

U6

EXISTING CL GRADE
PROPOSED CL GRADE
1.50%
0.82%
2.00%
RIM ~~1001.99~~ 1002.42
RIM ~~999.71~~ 999.80
NO V.C.
7.5' MIN. COVER
362LF-8"DIP CL 52 WATERMAIN
265LF-8"PVC SANITARY SDR 35 @ ~~0.80%~~ 0.76%
74 ~~75~~LF-8"PVC SANITARY SDR 35 @ ~~0.40%~~ 0.96%
~~991.39~~ S 991.05
~~989.27~~ N 989.03
~~989.17~~ S 988.96
988.25 988.87 N,S
988.21 988.77 E
989.06
+40 MH 8 PVI STA = 3+25 PVI ELEV = 1001.82
+75 MH 7 PVI STA = 0+17 PVI ELEV = 999.28
+00 MH 6

1001.9 1002.20 | 1006.8 1001.61 | 1006.9 1001.20 | 1006.8 1000.79 | 1006.3 1000.38 | 1006.0 999.96 | 1006.0 999.55 | 1007.3 999.62

1010 1005 1000 995 990 985 980

4 3 2 1 0


DRAWING NUMBER
SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 55502
DRAWING NUMBER
HILLSE9.04
8