C.S.A.H. NO.12

NOTE:
INSTALL WATERMAIN
2.3 METERS BELOW FUTURE
FINISHED CENTERLINE GRADE

NOTE:
CONTRACTOR TO REMOVE
AND REPLACE EXISTING
BITUMINOUS AS DIRECTED
BY ENGINEER

400 mm VALVE

HYD w/VALVE
6.75 m–150mm LEAD
400mm x 150mm TEE

400 mm PLUG

400 mm X 400 mm TEE
400 mm PLUG

BOX CAR

8.5 m D/W

FENCE

375 mm RCP

PP

TB

ROW

21.356 m ROW

15.240 m ROW

SEE SHEET C2–17

SEE SHEET C2–19

1+300 1+320 1+340 1+360 1+380 1+400 1+420 1+440 1+460

MH 506

WOODED

0 HORIZ (M) 10
1:250
0 VERT (M) 2
1:50

minnesota METRIC

DELETED FROM CONTRACT

283 282 281 280 279 278 277

FUTURE FINISHED ℄ GRADE
EXISTING ℄ PROFILE

TOP 279.911

BVCS: 1+356.360
BVCE: 278.849

2.140%

60.960 – 375 mm RCP CL V @ 2.20%

277.033 N
277.002 E
276.972 W

1+295.400 ST MH

60 m – 450 mm CL 52 DIP SANITARY @ 0.12%

269.156

278.499 N
278.404 E
278.374 W

1+356.360 ST MH

269.258 E
269.228 W

1+360 MH 506

FUTURE STORM SEWER
BY OTHERS

60.960 – 375 mm RCP CL V @ 1.58%

160 m – 400 mm DIP WATERMAIN

279.538 N
279.364 W

1+417.320 ST MH

100 m – 450 mm CL 52 DIP SANITARY @ 0.12%

2.3 m MIN. COVER

2.3 m MIN. COVER

14.99 m – 400 mm DIP WATERMAIN

1+474.992 TEE AND PLUG

18 m – 450 mm CL 52 DIP SANITARY @ 0.12%

269.378
269.378

269.430 N
269.400 W

1+478 MH 507

1+300 1+340 1+380 1+420 1+460

DESIGNED BY: _____ JOB DATE: JULY 1998
DRAWN BY: _____ JOB NUMBER 800110J
APPROVED: _____ CAD DATE: JULY 1998
CAD FILE: February 08, 1999 2:16:1 p.m.
800110J\Dwgs\BALDWIN\17.DWG

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG.NO. 15316

NO.	DATE	BY	REVISION DESCRIPTION
1	1–19–99	PH	C.O. NO. 1

Howard R. Green Company
CONSULTING ENGINEERS
1326 ENERGY PARK DRIVE
ST. PAUL, MINNESOTA 55108
(612) 644–4389

CITY OF ELK RIVER
EASTERN AREA
PHASE I IMPROVEMENTS

WATERMAIN IMPROVEMENTS
C.S.A.H. NO.12
1+300 TO 1+460

SHEET NO.
C2–18

DRAWING NUMBER
EASTE1.98
103

SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 60062