

BK. 62 Dr. 12 A

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Stadia Topog. Survey

Keller Golf Course

From So. Entrance To from S.T.H. 61

Road Acc't. No.

Date Filed. 10-24-50

File.

VERT.
ANGLE

ROD
EQUIV.

ROD

DIFF.

ELEV.

Keller Golf Course

Stadia Topography

@

So. Entrance from STH #61

Drawn up
1950

June 13 & 14, 1950

10 Pages.

OBJECT

AZI

STADIA

ΔA
 2×2 Hods
 2.23
 7.00
 0.00

E 20" B0

T @ ΔA

8° Lt of Mag. N = $0^\circ 00'$
 3.5°

BM SW cor S gate Pillar $6^\circ 55'$

ground E " " " " $6^\circ 55'$

Beg Ent Rad $358^\circ 30'$

Edge Pav $352^\circ 20'$

ϕ STH #61 $342^\circ 10'$

edge Sod. $346^\circ 00'$

Edge Pav $306^\circ 20'$

ϕ STH #61 $249^\circ 00'$

" $201^\circ 55'$

Edge Pav $195^\circ 00'$

Edge Sod $188^\circ 55'$

" " $174^\circ 25'$

Edge Pav $197^\circ 55'$

ϕ STH #61 $202^\circ 40'$

" $207^\circ 35'$

Edge Pav $205^\circ 20'$

Edge Sod $203^\circ 15'$

G E $200^\circ 45'$

G E Top B.S. & Wedge $1\frac{1}{2}'$ wall $198^\circ 45'$

" " " " $195^\circ 20'$

G E $195^\circ 10'$

6-13-50

2

GB
A.M.
M.B.VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

HI = 897.01

HI = 518

from Bench
Levels

891.83

894.58

115

243

894.53

115

47

892.30 ✓

108

5.4

891.60 ✓

110

5.1

891.90 ✓

90'

5.1

891.90 ✓

24'

5.6

891.40

18'

5.5

891.50 ✓

35'

5.3

891.70 ✓

123'

5.7

891.30

123'

5.2

891.80 ✓

128'

5.3

891.70 ✓

210'

4.7

892.30 ✓

210'

4.8

892.20

220'

5.9

891.10

300'

5.9

891.10 ✓

308'

5.6

891.40 ✓

310

5.9

891.10 ✓

310'

5.1

891.90 ✓

320'

1.8

895.20 ✓

270'

2.5

894.50 ✓

265'

5.0

892.00 ✓

OBJECT

AZI

STADIA

G E

192°35'

190°20'

Gr. @ Wedge of wall

189°55'

"

184°35'

G E

188°20'

G E

184°00'

Gr. @ Wedge Wall

176°20'

FL. 12" Cm Hwy Drain

187°55'

FL " " " "

156°00'

Gr. @ Wedge Wall

157°45'

G E

181°30'

G E

6°15'

Gr. @ Wedge Wall

19°50'

" " " " "

14°40'

G E

7°40'

Top B.S. Gr. @ Wall

12°00'

G E - Toe Slope $\frac{1}{2} = 110$

26°50'

" "

29°55'

Edge of road Toe Slope

110°20'

" " " "

147°55'

End of Edge of Road " "

168°40'

Toe Slope

170°25'

" "

171°40'

179°15'

10' Black Top Road
Wedge

5-13-50

G.B.

A.M.

M.B.

3

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

H.I. = 897.01

230			4.5		892.50 ✓
234'			6.5		890.50 ✓
234'			5.2		891.80 ✓
190'			9.1		887.90 ✓
180'			4.9		892.10 ✓
118'			5.2		891.80 ✓
115'			11.3		885.70 ✓
65'			6.55		890.46 ✓
72'			16.0		881.0 ✓
34'			11.3		885.70 ✓
32'			5.3		891.70 ✓
62'			5.5		891.50 ✓
65'			11.3		885.70 ✓
90'			9.8		891.20 ✓
90'			5.4		891.60 ✓
113'			5.1		891.90 ✓
280	-0°45'	-3.7	9.0	-12.7	884.30 ✓
85'	-2°00'	-3.0	4.5	-7.5	889.50 ✓
48'	-2°30'	-2.1	11.8	-13.9	883.60 ✓
90'	-2°30'	-3.9	8.0	-11.9	885.10 ✓
170'	-1°25'	-4.2	3.0	-7.2	889.80 ✓
265'	2°30'	-11.6	10.0	-21.6	875.40 ✓
350'	2°30'	-15.3	5.8	-21.1	875.90 ✓
355'	—		5.6		891.40 ✓

OBJECT

AZI

STADIA

GE

185°35'

"

185°35'

GE

181°10'

"

188°30'

X

"

0.0

190°00'

"

187°00'

X

"

11.7

180°15'

"

161°46'

"

158°45'

"

147°25'

"

133°30'

"

146°20'

"

E edge Rd

161°50'

" " "

152°00'

GE

144°50'

"

124°10'

"

108°55'

E edge Road

86°00'

E " "

85°50'

W " "

76°00'

W " "

83°20'

E " "

64°10'

GE

104°20'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
H.I. = 897.01					
354'	+0°30'	+3.1	8.5	-5.4	891.60 ✓
310'	"	+2.7	1.3	+1.4	898.40 ✓
300'	"	+2.6	3.7	-1.1	895.90
265'	—		0.6		896.40 ✓
290	—		+1.8		898.80 ✓
230'	—		5.7		891.30 ✓
185'	—		20.9		876.10 ✓
210'	-3°00'	-11.0	8.0	-19.0	878.00 ✓
270'	"	-14.1	11.5	-25.6	871.40 ✓
365'	"	-19.1	4.3	-23.4	873.60 ✓
172'	-6°23'	-19.0	3.0	-22.0	875.00 ✓
165'	"	-18.2	5.1	-23.3	873.70 ✓
170'	"	-18.8	3.5	-22.3	874.70 ✓
112'	-6°30'	-12.6	7.5	-20.1	876.90 ✓
140'	"	-15.8	6.7	-22.5	874.50 ✓
135'	"	-15.2	6.3	-21.5	875.50 ✓
130	-5°00'	-11.3	4.0	-15.3	881.70 ✓
130'	—		5.9		891.10 ✓
80'	-6°33'	-9.1	4.0	-13.1	883.90 ✓
80'	"	-9.1	3.1	-12.2	884.80 ✓
44'	"	-5.0	11.1	-16.1	880.90 ✓
54'	"	-6.1	10.4	-16.5	880.50 ✓
75'	"	-8.5	9.0	-17.5	879.50 ✓

OBJECT

AZI

STADIA

GE

54°40'

GE

50°00'

"

36°30'

"

50°10'

Pt. on Rad

5°30'

" " "

13°20'

Beg Rad SE Cor Pillior

14°10'

Pt on Rad

5°25'

end Rad

0°55'

Ctr. C. Basin

2°10'

Gr @ Wedge

8°30'

P.P.

6°35'

Gr @ Wall

6°50'

GE

12°45'

E edge sod

1°45'

E edge Pavc

359°10'

E " "

357°35'

Φ

354°40'

E Edge

350°00'

Beg Rad

346°20'

Pt on Rad

344°00'

end Rad

335°50'

Pt on Rad

335°00'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
H.I. = 897.01					
110	—		8.2		888.40
150'	—		0.0		897.01 ✓
110'	-4°20'	-8.3	5.0	-13.3	883.70 ✓
70'	"	-5.3	8.6	-13.9	883.10 ✓
130'	—		4.7		892.30 ✓
145'	—		4.6		892.40 ✓
165'	—		3.9		893.10 ✓
170'	—		4.3		892.70 ✓
190'	—		4.9		892.10 ✓
180'	—		5.1		891.90 ✓
190'	+1°16'	+4.2	8.0	-3.8	893.20 ✓
240'	—		3.3		893.70 ✓
255'	+0°46'	+3.4	7.0	-3.6	893.40 ✓
230'	+1°36'	+6.4	10.0	-3.6	893.40 ✓
270'	—		4.5		892.50 ✓
274'	—		3.9		893.10 ✓
200'	—		4.4		892.60 ✓
208'	—		4.3		892.70 ✓
185'	—		4.9		892.10 ✓
200'	—		6.2		890.80 ✓
214'	—		6.9		890.10 ✓
220'	—		9.1		887.90 ✓
250'	—		10.0		887.00 ✓

OBJECT

AZ.

STADIA

Pt. on Rad

345°20'

end Rad

353°40'

W edge Pave

355°20'

edge Sod

340°00'

edge Pave

340°25'

edge Sod

307°40'

" Pave

269°20'

" Sod

222°00'

" Pave

206°40'

" Sod 12" Cm ^(West end Burrud.)

208°40'

Top burm

209°10'

GE

208°30'

"

255°35'

"

288°20'

"

317°20'

322°50'

Top Mt

333°10'

To A "B"

52°28½'

$\star$ 27.78 $\circ$ 17.00 $\star$

A @ A "B"

To "A"

232°28½'

294°40'

323°00'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
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$$H.I. = 897.01$$

272			7.0		890.00 ✓
320'			4.5		892.50 ✓
300'			4.0		893.00 ✓
145'			5.9		891.10 ✓
112			5.3		891.70 ✓
70'			5.7		891.30 ✓
46'			5.6		891.40 ✓
95'			7.1		889.90 ✓
134'			6.7		890.30 ✓
200'			8.4		888.60 ✓
185'			7.2		889.90 ✓
185'			11.3		885.70 ✓
95'			5.8		891.20 ✓
110			4.7		892.30 ✓
150'			6.7		890.30 ✓
205'			10.4		886.60 ✓
208'			8.2		888.80 ✓
199'	+2°36'	+8.7	2.3	+6.4	903.34 ✓

$$H.I. = 908.77$$

$$H.I. = 5.43$$

199'	-4°00'	-13.9	3.1	-17.0	891.83 ✓
90'	—		13.2		895.60 ✓
80'	-5°34'	-7.7	6.0	-13.1	895.10 ✓

OBJECT

AZI

STADIA

GE

322°40'

324°20'

319°50'

N Edge Road

301°00'

" "

278°00'

GE

272°00'

"

256°40'

"

177°30'

"

188°00'

N edge Road

186°40'

S " "

186°40'

S " "

151°36'

N " "

151°36'

" "

140°25'

S edge ent Rd

129°40'

N " " "

120°00'

pt of wye

124°20'

S edge Blx top

128°40'

edge Road

116°40'

N edge Road 5.9

111°30'

N edge Ent 8

118°00'

" " " "

103°40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
H.I. = 908.77					
110	-5°34'	-10.6	4.5	-15.1	893.70 ✓
160'	"	-15.4	0.5	-15.9	892.90 ✓
60'	"	-5.8	4.2	-10.0	898.80 ✓
30'	—		8.7		900.10 ✓
60'			11.5		897.30 ✓
70'			12.3		896.50
28'			7.5		901.30
23'			4.4		904.40
62'			9.1		899.70
102'			13.9		884.90 ✓
117			13.9		884.90 ✓
120'			2.4		906.40 ✓
104			2.4		906.40 ✓
90'	+3°14'	+5.1	6.0	-0.9	907.90 ✓
85'	"	+4.8	2.6	+2.2	911.00 ✓
85'	"	+4.8	2.4	+2.4	911.20 ✓
145'	+4°00'	+10.1	3.5	+6.6	915.40 ✓
152'	—	+10.6	4.3	+6.3	904.50 ✓ 15.1
175'	+5°00'	+15.2	6.1	+9.1	917.90 ✓
172'	"	+14.4	4.0	+10.9	919.70 ✓
130'	"	+11.3	6.1	+5.2	914.00 ✓
13'	—		4.5		904.30 ✓

OBJECT	AZI	STADIA
π of A "A"		
B.M.	6°55'	
G.E.	15°50'	
"	28°—	
"	36°10'	
"	27°10'	
"	43°20'	
"	53°40'	
	47°20'	
	91°—	
	101°30'	
W. side of wall	97°—	
" " "	16°20'	
	90°10'	
	78°—	
	54°40'	
	✓ 29°55'	
	✓ 36°30'	
	✓ 54°40'	
N.W. Cor. 3.5" pillar	14°40'	
S.W. " " "	11°55'	
" " " "	7°40'	
E. Rd.	6°25'	

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
H.I. =	896.8 ✓				
			2.3	Ground =	92.2 ✓ 894.53 ✓
115'			4.2	-9	92.6 ✓
123'	-0°35'	-1.3	9.0	-10.3	86.5 ✓
130			9.9		86.9 ✓
95	-4°50'	-8.0	6.0	14.0	82.8 ✓
105			11.6		85.2 ✓
78			13.2		83.6 ✓
52'			15.0		81.8 ✓
72			15.5		81.3 ✓
37			16.3		80.5 ✓
16			11.5		85.3 ✓
79'			10.8		86.0 ✓
130			6.5		90.3 ✓
115			5.0		91.8 ✓
130			3.5		93.3 ✓
85'	-6°20'	-9.3	5.0	-14.3	82.5 ✓
105			12.8		84.0 ✓
110'			7.6		89.2 ✓
138					
170					
180					
155			3.8		93.0 ✓

OBJECT

AZI

STADIA

T at A "A"

To S.W. Cor Pillar

6°55'

G.E

✓ 190°-

"

✓ 180°15'

"

185°30'

"

182°-

"

185°40'

"

178°
188°20'

"

182°10'

"

179°-

"

171°-

"

171°-

"

169°20'

" W. Edge of wall

182°20'

T @ A "B"

To A "A"

232°28½'

To Water System Gate Valve 147°20'

[illegible]

OBJECT

AZI

STADIA

DIST.

VERT.
ANGLE

ROD
EQUIV.

ROD

DIFF.

ELEV.

OBJECT

AZI

STADIA

Bench Levels
for
Keller Golf - Stadia
@
So. Ent. and STH #61

Sta	+	-	Elev
B.M.	11.73	874.64	862.91
T.P.	11.35	885.76	0.23 874.41
TP	8.55	894.24	0.07 885.69
	7.53	898.02	3.75 890.49
A "A"		6.19	891.83
		3.49	894.53
TP	7.92	905.38	0.56 897.46
A "B"		2.04	903.34
TP	5.11	897.07	13.42 891.96
T.P.	2.19	891.22	8.04 889.03
	1.95	879.81	13.36 877.86
	2.46	873.09	9.18 870.63
		10.18	862.91

6-14-50

G.B.

A.M.

K.R.

9

Brass Plate Keller Dam

Top S.W. cor Bottom Tier. of S. Ent. Pillar

Brass Plate Keller Dam.

