

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

LAND & Stadia Survey

Aldrich Sports Arena

Ripley
From W.B. Ave. To N. St. P. Rd.

Road Acc't. No. _____

Date Filed 4-19-61

DR. 9
File BK. 35

Aldrich Sports Arena

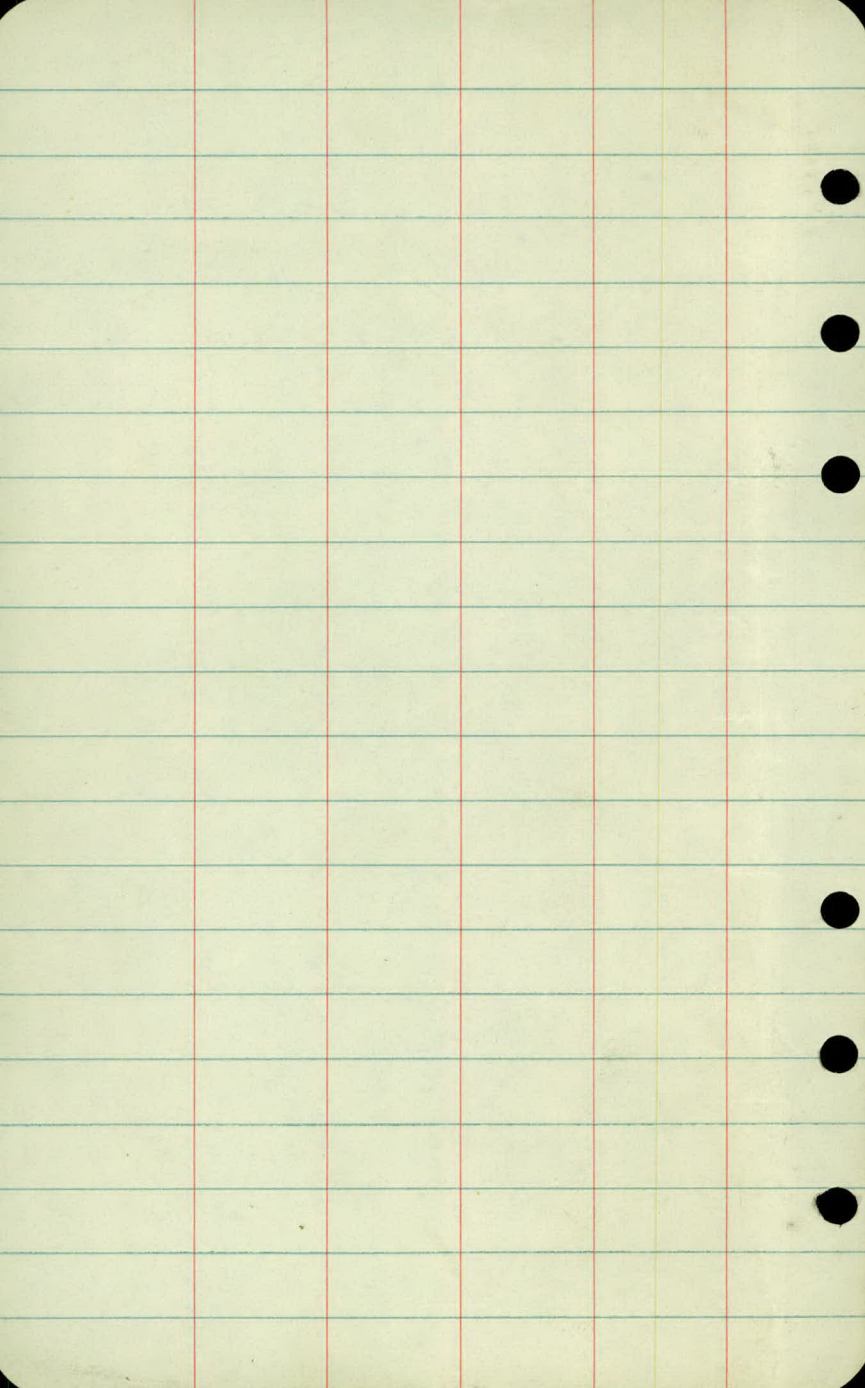
Property Survey

NOTE:

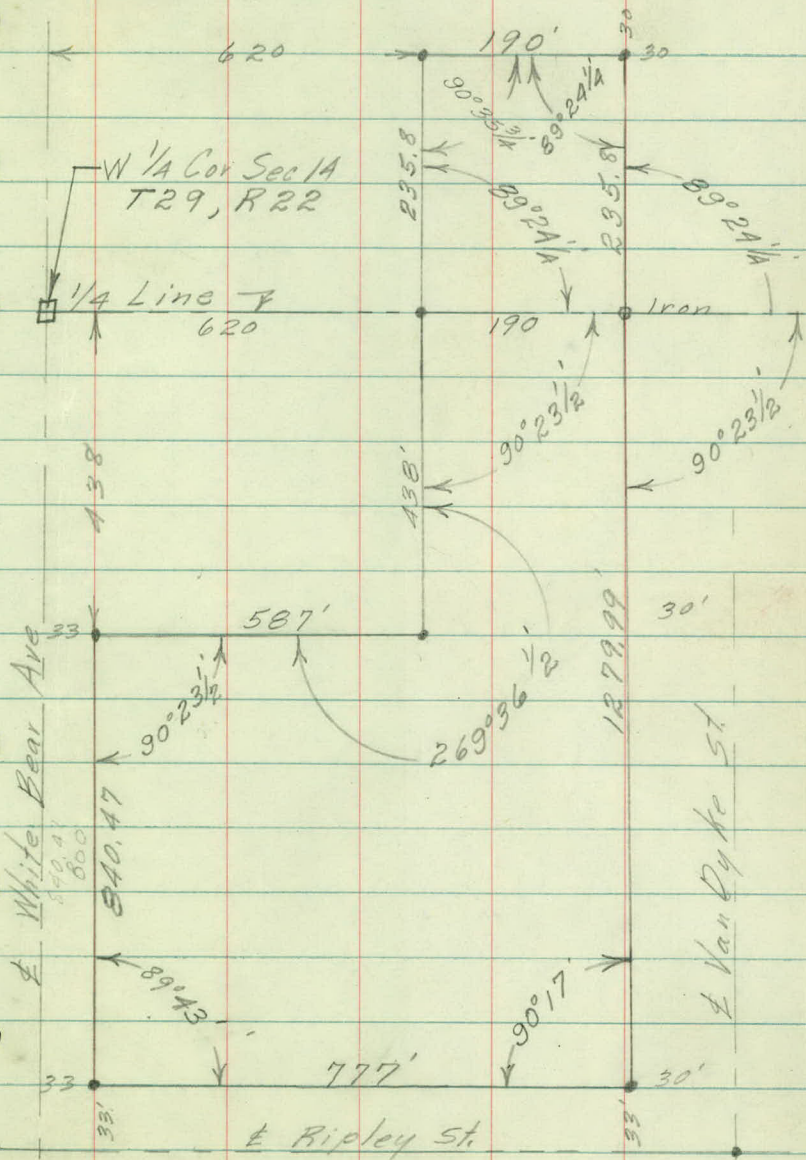
Chain .02' Long per 100'

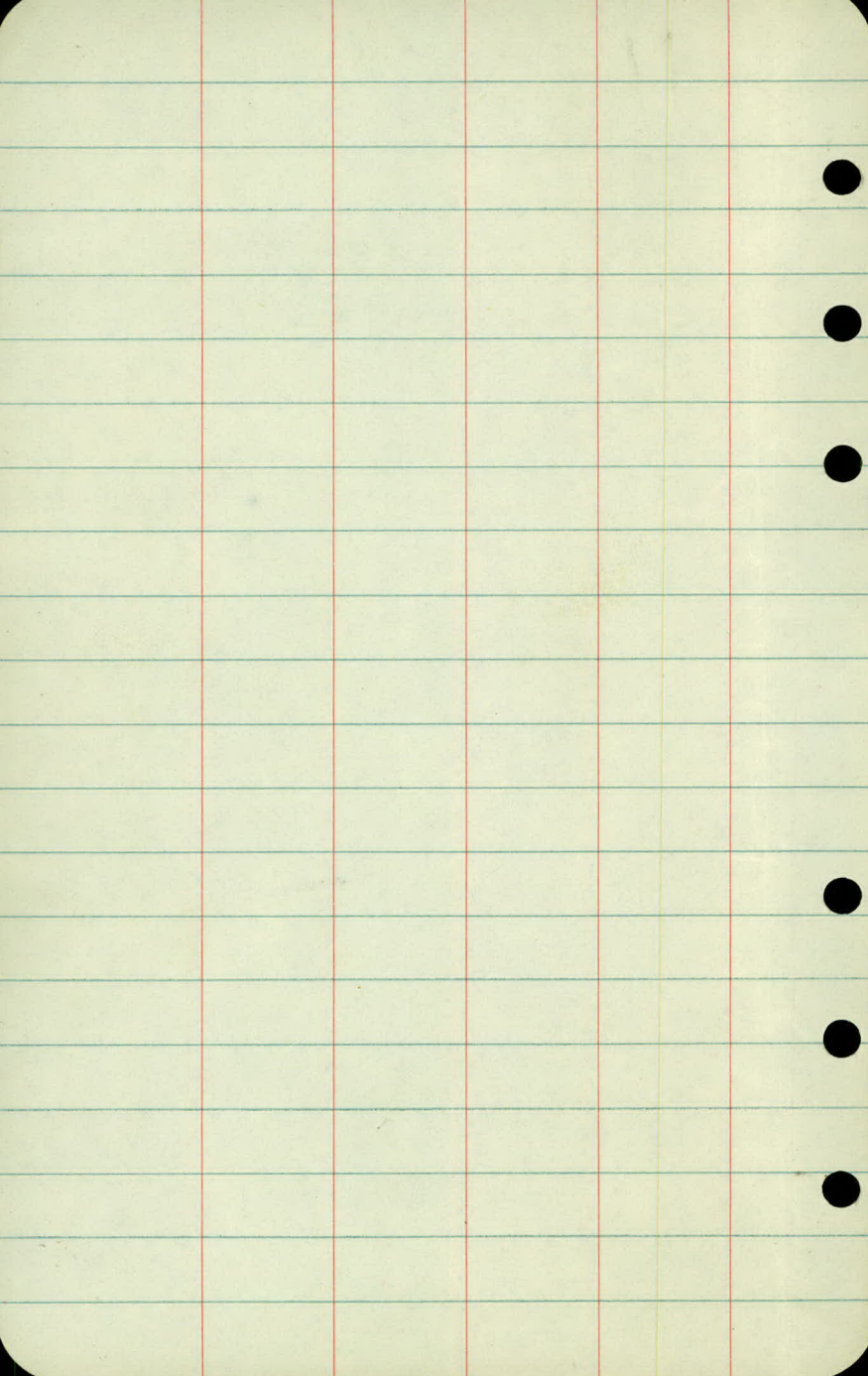
as per Francis Kvidera.

4/12/60 W.G.B.



- = Boat Spikes

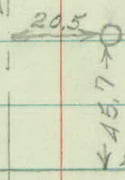




1
Aldrich Sports Arena

Sewer Locations

White Bear Ave.



Ripley

4-8-28

FK
RG
JS
JL
JH

April 12, 1960
Apr. 13, 1960 FK

2

RG
JS
JL

Line F

MH 1.7' Deep
Ground
Elev 960.89

MH 9.15' Deep
1.8' below Ground
Elev 961.17

MH 12.65' Deep
2.4' below Ground
Elev 963.70

MH 6.58' Deep
Elev 956.64

MH#3
Elev. 962.64

MH#2
Elev. 958.37

MH#1
Elev. 963.54

Van Dyke

Ripley

431.72
193.22
238.5

Sta	+	-	Elev
BM	4.46	968.00	(963.54)
MH#2		9.63	958.37
MH#3		5.36	962.64
TP	5.19	969.59	3.60 964.40
MH at Pt "C"		6.62	962.97 -1.8 Elev = 961.17
MH at Pt "D"		7.00	962.59 Elev 960.89 -1.7
MH at Pt "B"		3.49	966.10 Elev 963.70 -2.4
TP	1.51	967.61	3.49 966.10
MH at Pt "A"		10.97	966.64
BM		4.06	963.55 (963.54)

RG
JS
JL

April 14, 1960
Warm, Clear

3

E Rim MH #1 $\pm$ Ripley 193' W. of Van Dyke

E Rim MH 150.8' N. of MH #1

W Rim MH 306.2' W of MH #2

Nail 1.8' above Rim of M.H.

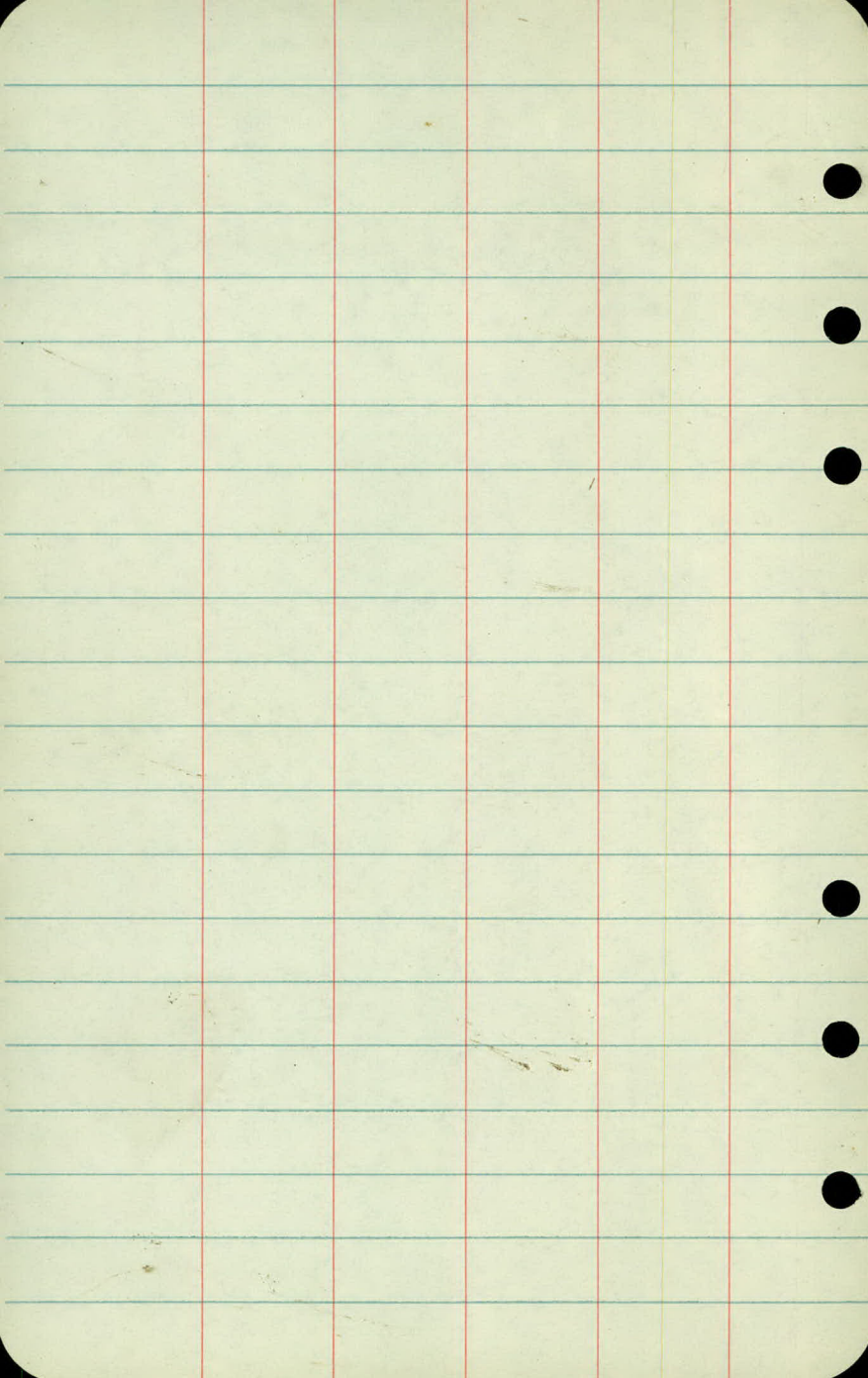
Nail 1.7' above Rim of M.H.

Nail 2.4' above Rim of M.H.

Nail

Top E. Rim

E Rim MH #1 $\pm$ Ripley St. 193' W of Van Dyke



DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV. /

Ramsey Co Home

Stadia

S.W. Corner thereof

18 pages

Plotted
H.A.W.
L.D.G.

1-11-60

OBJECT H. I. = 972.71 AZ.

STADIA

π at $\pm$ Ripley & Van Dyke
to $\pm$ Van Dyke No 0°00'

BM E.R.MH^{#1} 272°50'
 $\pm$ Ripley

$\pm$ V.E.A. & Ripley 270°40'

$\pm$ Ripley 270°30'

" " 270°30'

" " 270°30'

" " 270°40'

" " 270°50'

" " 271°-

" " 271°40'

" " 274°40'

" " 90°-

$\pm$ N. St. Paul Rd & Ripley 90°-

Toe Slope 272°15'

" " 272°45'

" " 273°20'

FA 24
 RG T
 JS DIST
 JH f

VERT.
 ANGLE

ROD
 EQUIV.

Jan 6, 1960
 Overcast 14°

DIFF.

ELEV. 2

HI = 972.71 HI = 5.20 967.51

193 9.17 963.54

840 5.4 67.3

740 8.7 64.0

635 10.0 62.7

535 10.8 61.9

430 11.2 61.5

328 10.8 61.9

226 9.7 63.0

125 8.2 64.5

22 5.9 66.8

102 1.4 71.3

212 +0.6 73.3

738 10.0 62.7

630 13.7 59.0

534 16.1 56.6

OBJECT

972.7/AZ.

STADIA

Toe Slope	274°25'
Top M. H. only	276°40'
Toe Slope	277°35'
" "	280°40'
" "	290°35'
Ripter "	" "
Van Dyke "	" "
4 Van Dyke	0°00'
" " "	0° —
Toe Slope	341°30'
GE	335°30'
"	326°50'
"	308°40'
"	311°35'
"	301°10'
"	305°35'
"	303°55'
"	324°10'
"	332°30'
"	335°05'
"	339°45'

Jan. 6, 1960					
DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ³
434			17.2	50	55.5.
432			16.02		56.69.
335			17.1		55.6.
232			16.1		56.6.
134			14.2		58.5.
66			9.8		62.9.
56			5.8		66.9.
99			6.1		66.6.
105			9.1		63.6.
110			10.1		62.6.
121			8.2		64.5.
102			12.0		60.7.
137			9.3		63.4.
175			13.8		58.9.
200			11.6		61.1.
242			14.5		58.2.
225			11.8		60.9.
218			11.7		61.0.
166			8.7		64.0.
167			10.1		62.6.

OBJECT

AZ.

STADIA

GE L Green

320°35'

L Van dyke

0°—

Toe slope

351°10'

GE

294°30'

"

288°15'

"

322°35'

"

284°30'

"

303°—

"

281°15'

"

295°30'

FL NE Culvert

273°40'

GE

290°15'

"

279°30'

"

285°05'

"

276°30'

"

278°15'

"

283°40'

"

276°50'

"

276°00'

Jan 6, 1960

4

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	972.71				
174			10.6		62.1
198			6.5		66.2
200			8.8		63.9
255			14.8		57.9
348			17.2		55.5
256			12.9		59.8
444			17.9		54.8
380			14.2		58.5
550			15.1		57.6
482			10.8		61.9
495			17.70		55.01
600			10.5		62.2
650			10.4		62.3
780			0.6		72.1
715			9.2		63.5
735'			3.9		68.8
867'			0.9		71.8
777'			3.4		69.3
792'			5.7		67.0

OBJECT	AZ.	STADIA
E W. B. Ave	290°00'	
"	277°20'	
GE	290°35'	
"	296°35'	
E ditch	297°20'	
Top backslope	297°30'	
GE	291°50'	
"	300°00'	
"	293°50'	
"	304°00'	
"	298°20'	
"	309°25'	
"	305°00'	
"	317°20'	
"	327°00'	
"	331°00'	
"	338°30'	
"	354°15'	
"	356°05'	

DIST.

VERT.
ANGLEROD
EQUIV.Jan 6, 1960
ROD

DIFF.

ELEV.

5

972.71

898

+1.5

74.2 .

853'

3.3

69.4 .

870'

1.8

70.9 .

940'

+3.1

75.8 .

924'

+1.0

4.6
3.6

73.7 .

916

+3.0

4.1
1.6

75.7 .

816

1.2

71.5 .

844'

3.4

69.3 .

745'

1.1

71.6 .

747'

4.2

68.5 .

610'

7.9

64.8 .

646'

5.5

67.2 .

522'

7.6

65.1 .

568'

8.0

64.7 .

496'

8.5

64.2 .

339'

12.4

60.3 .

430'

10.0

62.7 .

294'

8.7

64.0 .

385'

9.3

63.4 .

OBJECT

972.71

AZ.

STADIA

to Van Dyke

0°00'

"

0°00'

"

0°00'

"

357°10'

"

347°35'

"

282°20'

"

334°50'

"

326°40'

"

297°15'

"

319°25'

"

313°10'

to A.Pt. A

317°29'

HI = 975.94

Inst. at A.Pt. A

to E. Ripley & Van Dyke

137°29'

GE

140°00'

"

165°20'

"

202°45'

DIST.	VERT. ANGLE	ROD EQUIV.	Jan 6, 1960 ROD DIFF.	ELEV. 6
292'			7.1	65.6 .
392'			7.7	65.0 .
503'			8.6	64.1 .
505'			10.0	62.7 .
518'			9.2	63.5 .
734'			3.6	69.1 .
560'			7.7	65.0 .
610'			9.7	63.0 .
657'			5.5	67.2 .
673'			5.9	66.8 .
435'			10.3	62.4 .
972'			1.92	970.79
			HI = 5.15	970.79
976'			8.60	967.34 967.51 .
270'			7.9	967.34 68.0 .
211'			9.9	66.0 .
215'			6.6	69.3 .

OBJECT

AZ.

STADIA

GE

210° 00'

"

216° 50'

"

218° 20'

"

222° 22'

"

93° 45'

"

244° 50'

"

241° 20'

"

240° 00'

"

226° 10'

"

174° 45'

"

133° 00'

"

116° 40'

"

108° 30'

"

105° 00'

"

103° 50'

"

102° 20'

"

101° 30'

E Van Dyke

101° 00'

CK. Az. E Van Dyke
+ Sect. Line

47° 40'

Jan 6, 1960

7

DIST.	VLF. ANG.	ROD EQUIV.	ROD	DIFF.	ELEV.
233'			3.1		72.8
253'			+0.5	0.8	76.4
258'			2.1	3.3	73.8
273'	+0°55'	+4.4	4.0	+0.4	76.3
660'			12.9		63.0
203'			0.5		75.4
192'			2.7		73.2
174'			0.9		75.0
126'			6.9		69.0
90'			8.2		67.7
140'			11.7		64.2
225'			10.9		65.0
345'			12.9		63.0
450'			13.1		62.8
498'			12.2		63.7
582'			14.0		61.9
648'			13.2		62.7
673'			12.5		63.4

OBJECT	AZ.	STADIA
E Van Dyke	93°40'	
E Van Dyke	84°00'	
GE	93°50'	
"	83°40'	
"	94°10'	
"	82°15'	
"	94°50'	
"	80°45'	
"	95°50'	
"	78°40'	
"	97°25'	
"	74°45'	
"	100°00'	
"	69°00'	
"	61°40'	
"	98°05'	
"	25°20'	
"	274°00'	
	329°40'	

Jan 6, 1960

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

8

975.94

665'

13.0

62.9.

667'

13.5

62.4.

636'

14.2

61.7.

640'

15.4

60.5.

535'

14.1

61.8.

552'

15.3

60.6.

444'

13.7

62.2.

468'

15.0

60.9.

345'

12.2

63.7.

375'

15.4

60.5.

254'

13.1

62.8.

282'

13.8

62.1.

132'

11.7

64.2.

209'

11.4

64.5.

156'

10.5

65.4.

58'

8.7

67.2.

84'

9.3

66.6.

51'

5.0

70.9.

93'

7.5

68.4.

OBJECT

AZ.

STADIA

GE

274°10'

"

304°25'

"

298°10'

"

275°55'

E W.B. Ave

293°15'

"

274°25'

"

315°30'

"

324°45'

GE

321°10'

"

329°40'

"

337°10'

"

335°40'

"

350°00'

"

2°00'

"

1°00'

"

22°45'

"

31°45'

"

37°10'

"

48°35'

Jan 6, 1960

9

DIST.

VERT. ROD
975.94

ROD

DIFF.

ELEV.

116'

6.3

69.6 .

143'

8.0

67.9 .

172'

6.8

69.1 .

156'

5.3

70.6 .

202'

2.1

73.8 .

185'

1.5

74.4 .

264'

3.2

72.7 .

322'

4.1

71.8 .

242'

8.2

67.7 .

303'

8.6

67.3 .

278'

8.9

67.0 .

203'

8.2

67.7 .

262'

7.5

68.4 .

253'

9.0

66.9 .

176'

8.9

67.0 .

275'

10.0

65.9 .

206'

9.9

66.0 .

320'

10.4

65.5 .

258'

10.9

65.0 .

OBJECT

AZ.

STADIA

GE

47° 10'

"

59° 20'

"

56° 00'

"

65° 20'

"

61° 50'

"

70° 30'

"

66° 30'

"

71° 00'

E Van Dyke

68° 15'

GE (Tee)

70° 20'

Tee

73° 00'

"

70° 00'

"

71° 20'

"

68° 15'

GE

71° 45'

"

69° 00'

"

76° 10'

E Van Dyke

26° 45'

"

64° 45'

DIST.

VERT.
ANGLEROD
EQUIV.Jan 6, 1960
ROD

DIFF.

ELEV.

10

975.94

375'

14.4

61.5

333'

14.5

61.4

457'

15.6

60.3

421'

15.6

60.3

538'

15.8

60.1

531'

15.1

60.8

638'

15.9

60.0

558'

15.5

60.4

690'

15.9

60.0

580'

14.2

61.7

600'

15.6

60.3

608'

13.8

62.1

660'

14.5

61.4

612'

16.0

59.9

670'

15.8

60.1

660'

14.5

61.4

655'

15.7

60.2

678'

14.2

61.7

730'

15.2

60.7

OBJECT

AZ.

STADIA

E Van Dyke

61° 10'

GE

64° 00'

"

60° 00'

"

63° 40'

"

54° 45'

"

59° 20'

"

48° 25'

"

55° 15'

"

48° 20'

"

38° 30'

"

36° 50'

"

40° 35'

"

33° 45'

"

37° 15'

"

32° 15'

"

35° 20'

"

25° 20'

"

13° 35'

"

0° 00'

DIST.

VLRT.
ANGLEROD
EQUIV.Jan 6, 1960
ROD

DIFF.

ELEV. /'

975.94

754'			16.2	59.7
708'			17.2	58.7
740'			17.1	58.8
700'			15.7	60.2
633'			16.6	59.3
613'			16.4	59.5
545'			16.6	59.3
545'			15.8	60.1
478'			15.1	60.8
460'			14.1	61.8
445'			12.4	63.5
416'			12.9	63.0
428'			13.8	62.1
400'			12.7	63.2
423'			14.7	61.2
390'			11.5	64.4
398'			9.3	71.6
371'			4.2	71.7
351'			3.8	72.1

OBJECT

975.94

AZ.

STADIA

GE

344°45'

⊥ Ent Road

30°30'

⊥ WB Ave

332°15'

⊥ Ent Road

13°40'

⊥ Ent Road

357°00'

⊥ Ent Road

337°00'

⊥ WB Ave

329°40'

TP

HI = 962.27

TP at ⊥ Van Dyke & Sec. Line

to ⊥ Ripley & Van Dyke

180°00'

TP

⊥ Van Dyke

180°00'

"

190°45'

GE

201°40'

"

225°20'

⊥ Van Dyke

180°00'

QE

241°05'

"

234°45'

DIST.	VERT. ANGLE	ROD EQUIV.	Jan 6, 1960		ELEV.
			ROD	DIFF.	
364'			4.7		71.2
375'			11.4		64.5
397'			4.8		71.1
330'			9.7		66.2
322'			7.8		68.1
348'			5.4		70.5
368'			4.6		71.3
			14.01		961.93
			0.34		961.93
128'			3.6		58.7
130'			4.9		57.4
124'			3.6		58.7
178'			4.4		57.9
17'			5.1		57.2
255'			4.5		57.8
29'			6.3		56.0

OBJECT

AZ.

STADIA

GE

241°30'

"

250°20'

"

261°20'

E Ent Road

251°40'

GE

266°10'

"

252°25'

"

266°20'

"

254°45'

E Ent Road

266°15'

GE

266°10'

"

266°20'

"

280°20'

"

293°10'

E Ent Road

282°10'

GE

294°50'

"

282°50'

"

302°15'

"

287°00'

"

290°45'

DIST.

962.27

ROD
DIV.

Jan 6, 1968

ROD

DIFF.

13
ELEV.

37'

5.5

56.8.

361'

4.5

57.8.

121'

5.5

56.8.

400'

1.3

61.0.

217'

5.1

57.2.

416'

3.2

59.1.

355'

6.3

56.0.

460'

1.4

60.9.

383'

1.6

60.7.

400'

4.1

58.2.

448'

1.5

60.8.

470'

0.3

62.0.

480'

0.5

61.8.

405'

1.7

60.6.

440'

3.1

59.2.

377'

5.4

56.9.

334'

7.7

54.6.

279'

6.9

55.4.

211'

7.1

55.2.

OBJECT

962.27

AZ.

STADIA

GE

313°15'

"

300°15'

"

330°30'

"

316°45'

"

349°00'

"

343°10'

"

352°10'

E Van Dyke

0°00'

"

0°00'

E Road

357°00'

"

344°20'

"

326°10'

"

313°05'

T.P. on P.P.

E Road

304°00'

"

300°30'

Levels

T.P. on P.P. 11.75 970.83

959.08

BM 7.85 970.86

7.85

962.98

963.01

Jan 6, 1968					
DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ¹⁴
252'			5.4		56.9.
156'			4.8		57.5.
192'			7.4		54.9.
108'			5.7		56.6.
172'			6.8		55.5.
80'			7.6		54.7.
170'			8.6		53.7.
77'			6.4		55.9.
169'			7.3		55.0.
241'			7.9		54.4.
277'			7.9		54.4.
321'			6.7		55.6.
388'			5.8		56.5.
			3.19		95.9.08 ✓
470'			3.2		59.1.
545'			1.1		61.2

Nail in RP N E Cor Barn

OBJECT	AZ.	STADIA
	9 970.86	
NE Cor Barn	2.8	68.1
" "	2.8	68.1
NW Cor Poultry	3.0	67.9
Midway	2.75	68.1
E Door 10' No Poultry	0.9	70.0
NE Cor	9.2	61.7
T.P. 13.48 973.96	10.38	960.48
SE Cor Poultry Bldg	11.6	62.3
NE Cor Coal Bin	8.3	65.6
SE Cor Boiler Room	5.6	68.3
GE	1.62	72.3
Water Tower	0.46	73.5
GE	4.1	69.8
GE	1.3	72.6
GE	1.3	72.6
"	1.5	72.4
"	2.7	71.2
E. Wing Kitchen	1.9	72.0

FK
RG
JS
JH

VERT.
ANGEL

ROD
EQUIV.

Jan 7, 1960
Clear 32°
ROD DIFF.

ELEV. 15

OBJECT

AZ.

STADIA

973.96[✓]

NE Cor Storm Cellar 5.4 68.5

SE Side " " 3.8 70.1

SE Cor " " 4.5 69.4

SW " " " 1.3 72.6

NW " " " 1.3 72.6

Below SE " " " 12.6 61.3

" NE " " " 11.9 62.0

TP 4.19 976.11[✓] 2.04 971.92[✓]

SE Cor 3.7 72.4

NE Cor SE Wing 3.5 72.6

4.1 72.0

SW Cor 4.0 72.1

N 4.4 71.7

" 3.5 72.6

GE 3.4 72.7

" 3.6 72.5

3.3 72.8

TP 2.30 974.89[✓] 3.52 972.59[✓]

Jan 7, 1960

16

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

OBJECT

AZ.

STADIA

✓ 9
974.89

Frost & W. B. Ave

7.6 67.3

SW Cor N. Wing

2.2 72.7

NW " " "

2.3 72.6

3.4 71.5

BM

1.39 973.50 ✓ (973.50)

SW Cor Garage

2.9 72.0

NW " "

3.2 71.7

NW " Coal Bin

6.2 68.7

GE

5.3 69.6

SW Cor Barn

5.8 69.1

GE

5.6 69.3

"

8.5 66.4

Between Silos

6.8 68.1

TP 3.68 969.12 ✓ 945 965.4 ✓

NW Cor Barn

1.3 67.8

BM

4.11 963.01 ✓ (963.01)

BM

(963.54)

Jan 7, 1960

17

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

Top Hyd Ramsey Co Home

Nail in PPNE Cor Barn

Top E Rim MH #1 & Ripley

OBJECT			AZ.	STADIA
Sta	+	π	-	Elev
BM	4.60	968.14		963.54
Top MH#2 (Rim)			9.80	958.34
				<u>36.7</u>
Inv. Elev.				921.64
Top MH#3 (Rim)			5.44	962.60 ⁷⁰
				<u>40.6</u>
Inv. Elev				922.0
Top Rim MH#4			6.23	961.91
BM			4.59	963.55
				(963.54)

Jan 7 1968

18

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

Top MH#1 ~~E~~ Ripley

OBJECT

AZ.

STADIA

RG
JS
JL
FS
WM

April 18, 1961
Warm 50°

1

RIPLEY ST.

White Bear Ave to No. St. Paul Rd

W.B. Ave = 0+00

PROFILE

3 pages

Sta	+	$\bar{A}$	-	Elev	
BM	10.82	972.27			961.45
0+00			4.9	967.4	
+15			5.1	967.2	
+50			7.0	965.3	
1+00			8.3	964.0	
+50			9.1	963.2	
2+00			9.5	962.8	
+50			9.9	962.4	
3+00			10.2	962.1	
+50			10.6	961.7	
4+00			10.7	961.6	
+50			10.8	961.5	✓
5+00			10.5	961.8	
TP	13.45	975.24	10.48	961.79	
+50			13.0	62.2	
6+00			12.4	62.8	
+50			11.7	63.5	
7+00			10.9	64.3	
+50			10.0	65.2	

April 18, 1961

2

SE Cor. Sidewalk Ho[#] 1773 W. B. Ave.

E White Bear Ave.

Sta	+	$\uparrow$	-	Elev	
		975.24			
8+00			8.8	66.4	
+40			7.7	67.5	
+50			7.3	67.9	
9+00			5.5	69.8	
+50			3.8	71.4	
10+00			2.3	72.9	
+50			1.8	73.4	
+62+			1.6	73.6	
BM			1.90	973.34	973.33

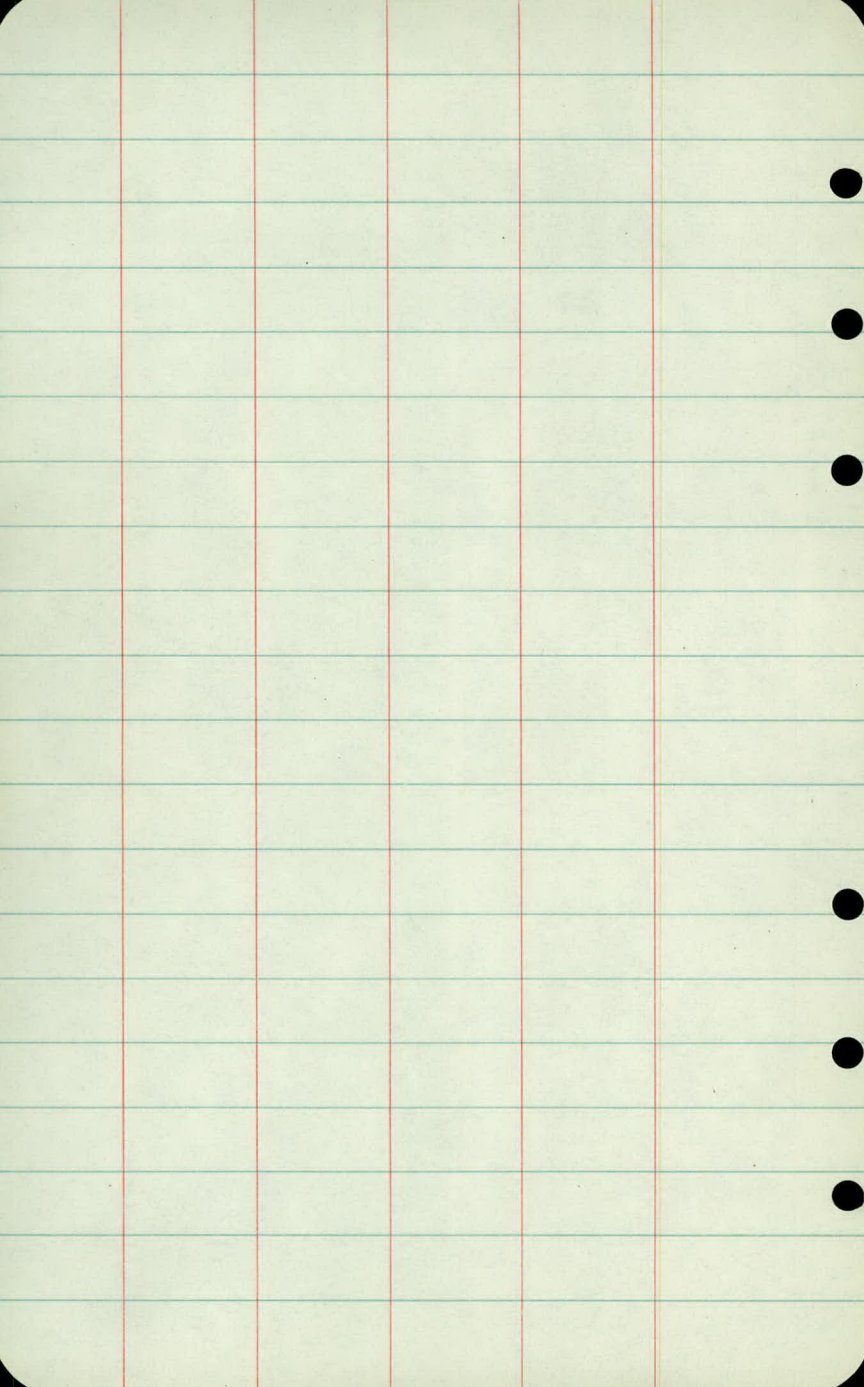
April 18, 1961

3

E Van Dyke

E No. St. Paul Road

Spike in PP&RT Sta 13+75

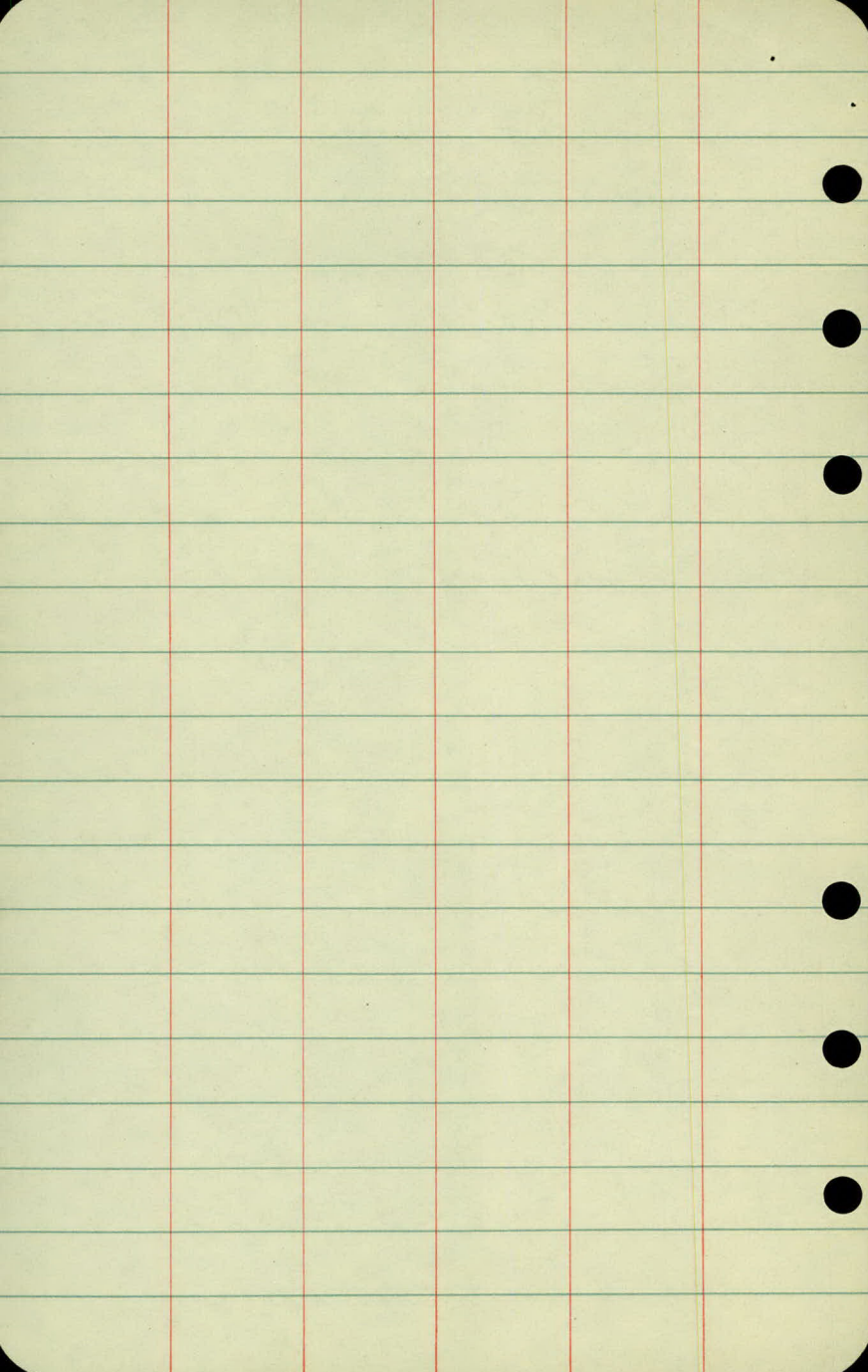


Ripley St

No St. Paul Rd to Hazel St

Rec. 10/17/56

platted.



Oct 16, 1956

2

Alignment

Sta	Point	ΔL	ΔR	Desc
-----	-------	------------	------------	------

2+62.74 E Hazel St

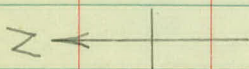
0+00 $\neq$ No. St. Paul Rd

212.58' to E Van Dyke

Oct 16, 1956

3

$\frac{1}{4}$ Line



$90^{\circ} 15' 1/4$ Platted

spike

33'

33'

spike

$39^{\circ} 25'$

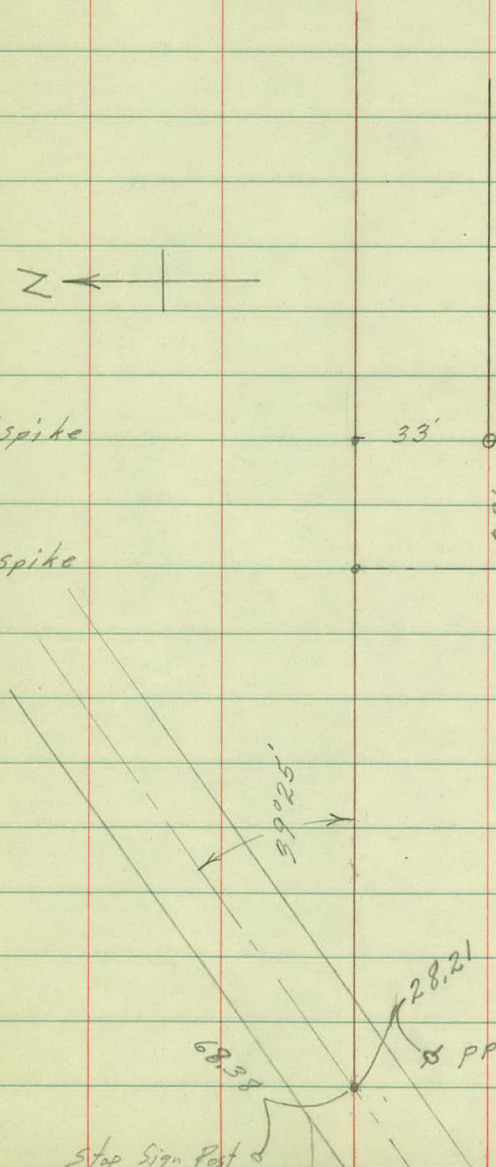
28.21

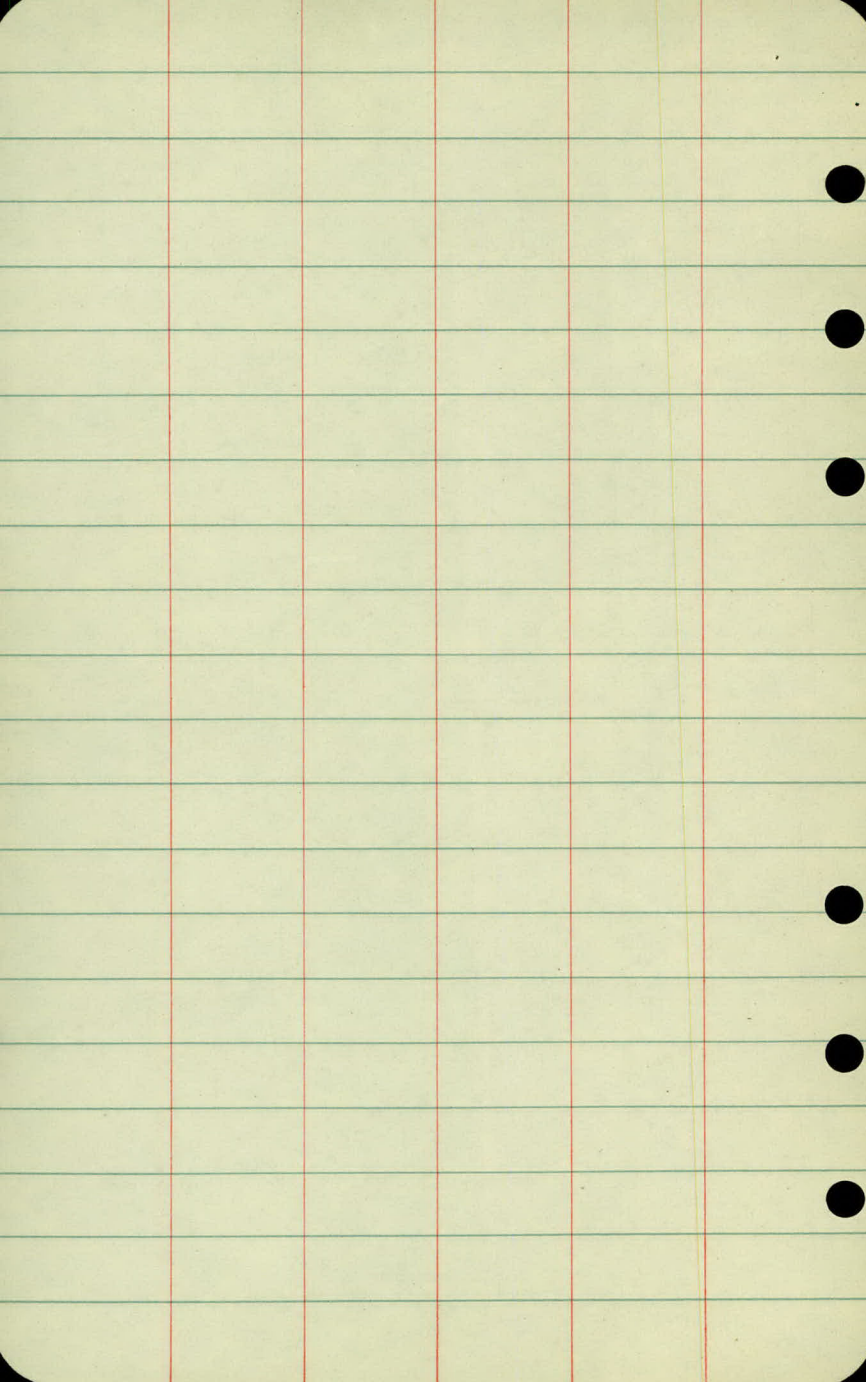
PP

68.38

nail

Stop Sign Post





Oct 16, 1956

4

Stadia Locations

26 2 2 a
16 1 1 a
1 9 2 2 a

Ols

AZ

Stadia

Lat 0+98.74

T

981.68

to 0+00

270°00'

B.M Spike in P.P. NE Cor. Ripley St. & No.

Edge Green

53°20' 169

"

57°50' 150'

"

66°00' 127'

"

72°45' 131'

"

76°40' 153'

"

80°00' 182'

"

81°35' 232'

"

83°45' 230'

"

85°10' 270'

"

86°30' 315'

E No. St. Paul Rd.

26°00' 149'

"

358°00' 78'

0+00 "

270°00' 98'

Rod

Ver L

Rod

Diff
ElevElev⁵

H.I. = 5.1

976.58

98.74

St. Paul Rd.

2.72

978.96

+5.0

+1°42'

2.0

+3.0

84.7

+8.4

+3°13'

2.0

+6.4

88.1

+11.7

+5°20'

2.0

+9.7

91.4

+12.1

+5°20'

2.1

+10.0

91.7

+10.8

+4°03'

1.0

+9.8

91.5

+12.8

+4°03'

4.8

+8.0

89.7

+8.8

+2°10'

0.0

+8.8

90.5

+6.0

+1°30'

2.0

+4.0

85.7

+5.2

+1°06'

2.0

+3.2

84.9

+6.9

+1°15'

4.0

+2.9

84.6

—

2.4

79.3

—

4.5

77.2

—

8.3

73.4

obj

AZ

Stadia slope at Pt.

981.68

G.E. on slope

51°20' 83' . 4:1

" "

63°40' 81' . 3:1

" "

72°20' 82' . 3:1

" "

76°30' 100' . 1:1

" "

81°40' 117' . 1:1

" "

84°00' 148' . 1:1

" "

85°20' 185' . 1:1

" "

87°00' 220' . 1:1

" "

88°10' 249' . 2:1

dist	Vert Angle	Rod	diff Elev	Elev ⁶
------	---------------	-----	--------------	-------------------

		3.5		78.2
--	--	-----	--	------

		"		78.2
--	--	---	--	------

		"		78.2
--	--	---	--	------

		"		78.2
--	--	---	--	------

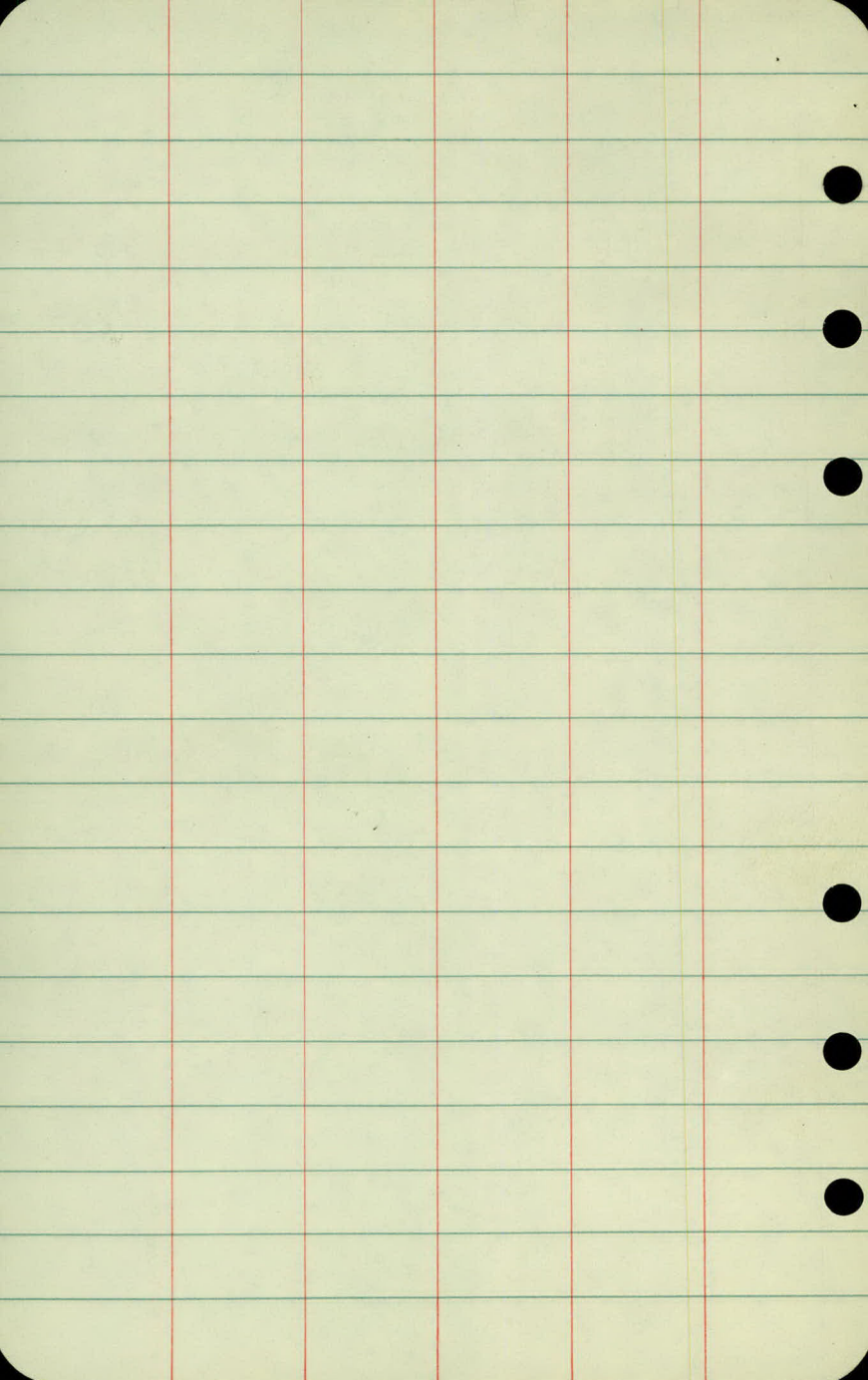
		"		78.2
--	--	---	--	------

		"		78.2
--	--	---	--	------

		"		78.2
--	--	---	--	------

		"		78.2
--	--	---	--	------

		"		78.2
--	--	---	--	------



Ripley St. Studio

OBJECT

AZ.

STADIA

A at 0+98.74

981.81

to 0+100

270°00'

BM Spike in PP NE Cor Ripley / N St. Paul
Feb

ditch

36°20' 158

"

20°45' 79

"

293°20' 43

Back slope

39°45' 159

"

31°10' 84

"

290°- 32

"

267°- 44

ditch

251°- 90

Toe of slope

75°- 70

" "

87°50' 115

" "

89°50' 152

" "

90°30' 205

G. E

44°- 70

"

70°30' 36

DIST.	VERT. ANGLE	ROD EQUIV.	Oct 29, 1956		ELEV.
			ROD	DIFF.	
					8
					6
			H.I. = 5.25		976.56
					973.80
			2.85		978.96
			4.4		77.4.
			6.2		75.6.
			8.7		73.1.
			1.5		80.3.
			3.0		78.8.
			4.2		77.6.
			3.1		78.7.
			11.5		70.3.
			7.5		74.3.
			9.2		72.6.
			10.1		71.7.
			10.0		71.8.
			4.7		77.1.
			6.9		74.9.

OBJECT

AZ.

STADIA

981.81

G. E.

118° — 59

"

111° 40' 127

"

128° 20' 186

Toe of Slope

90° 25' 248

" "

89° 15' 335

G. E.

91° 30' 270

"

126° 30' 233

"

110° 15' 244

Pot Hole

97° — 217

" "

112° 25' 193

" "

99° 20' 146

" "

113° 15' 154

G. E.

99° 20' 118

"

139° 40' 84

"

176° 15' 53

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

9

11.0

70.8.

9.7

72.1.

9.8

72.0.

7.7

74.1.

2.1

79.7.

7.6

74.2.

8.4

73.4.

8.4

73.4.

10.8

71.0.

11.3

70.5.

11.1

70.7.

11.0

70.8.

9.6

72.2.

13.0

68.8.

14.2

67.6.

12 JULY 1961

KP
WM
RB
LB
JD

ALDRICH AREA
ELEVATIONS

STA	+	$\bar{\Delta}$	-	ELEV.	
BM	9.19	976.29			967.10
TP	4.90	975.94	5.25	971.04	
TP	4.78	968.52	12.20	963.74	963-8 $\frac{1}{2}$ "
TP	8.32	973.64	3.20	965.32	
TP	8.43	980.89	1.18	972.46	

BM		1.91	978.98	978.96
----	--	------	--------	--------

Plan invert = 952.58
 our invert = 951.06

12 JULY 1961

LT

~~1~~

RT

TOP MOUNT AT FROST & WHITE BEAR AVE

SPIKE IN GROUND

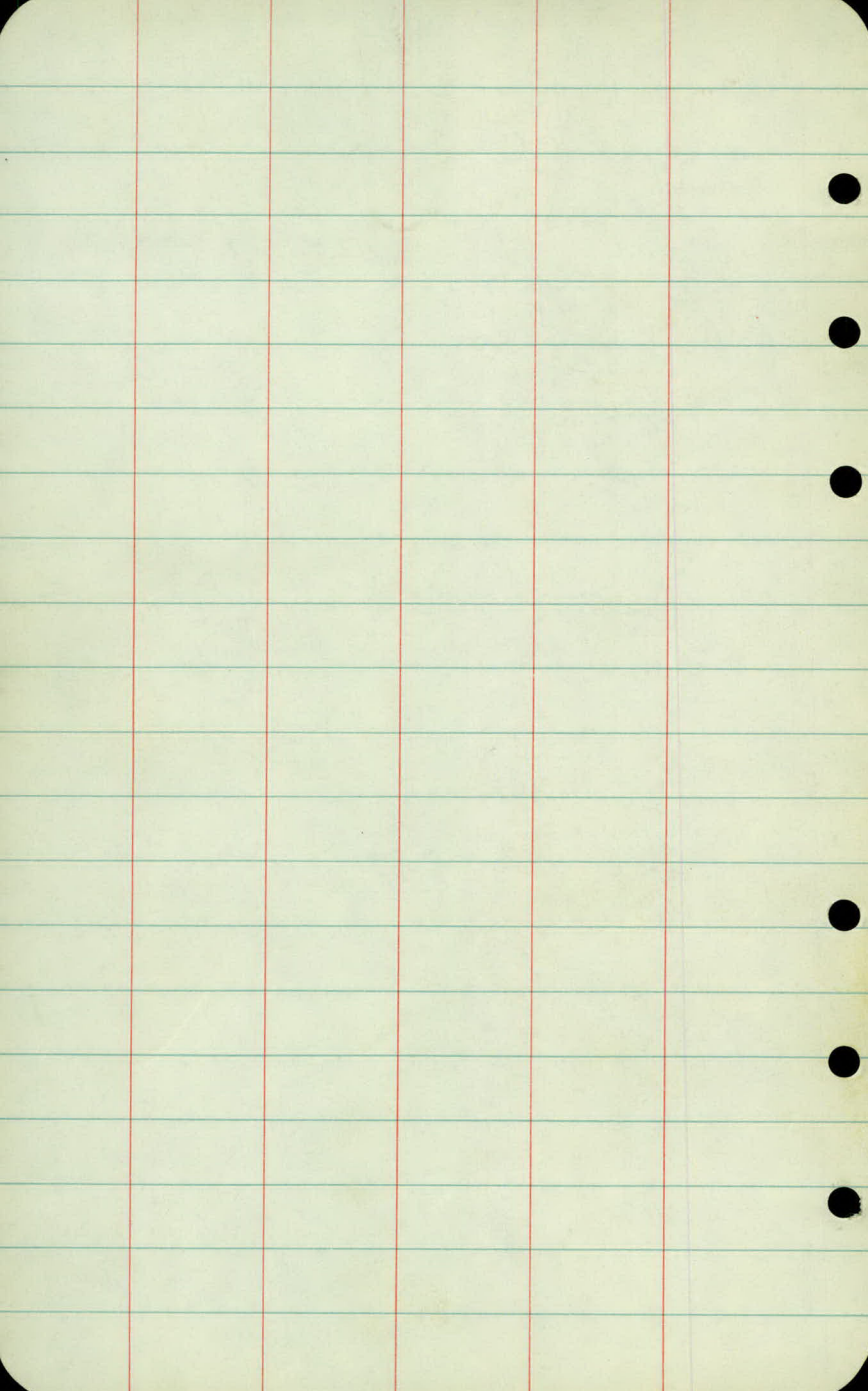
TOP ERIM MH

FL TO RING 12.68

SPIKE IN GROUND

SPIKE IN GROUND

SPIKE IN PP#3 N.E. COR N. ST. PAUL RD & RIPLEY



Aug. 15, 1962

Aldrich Arena

Special Ditch X-Sections

Title Page 1

X-Sections " 2

0+00 = Int. of Van Dyke St. & Service Dr.

Sta	+	π	-	Elev
BM	8.52	959.79		951.27

0+50

+75

1+00

+21

6.42 953.37

+25

+50

+75

+83

5.91 953.88

R6
WM
JK
BZ
DD

Aug 15, 1962
Fair 80°

Lt

#

1

S.E. Cor Ent. Slab on Caddy Shack

54.4	52.5	52.4	53.8	54.3
5.9	7.3	7.4	6.0	5.5
39	28	25	19	
			BT	

✓

54.6	52.7	52.7	54.1	54.4
5.2	7.1	7.1	5.7	5.4
37	27	25	18	
			BT	

✓

54.6	53.1	53.1	54.4	54.8
5.2	6.7	6.7	5.4	5.0
38	27	25	19	
			BT	

✓

Invert of 15" C.M. 26' Lt.

55.0	54.8	55.1
4.8	5.0	4.7
37	17	
	BT	

✓

55.5	55.0	55.2	55.3
4.3	4.8	4.6	4.5
33	21	17	
		BT	

✓

55.6	55.4	55.5
4.2	4.4	4.3
33	17	
	BT	

✓

Invert of 15" C.M. 26' Lt.

Sta

+

π

-

Elev

959.79

2+00

+20

BM

4.09

955.7²

Aug 15, 1962

Lt

2

3

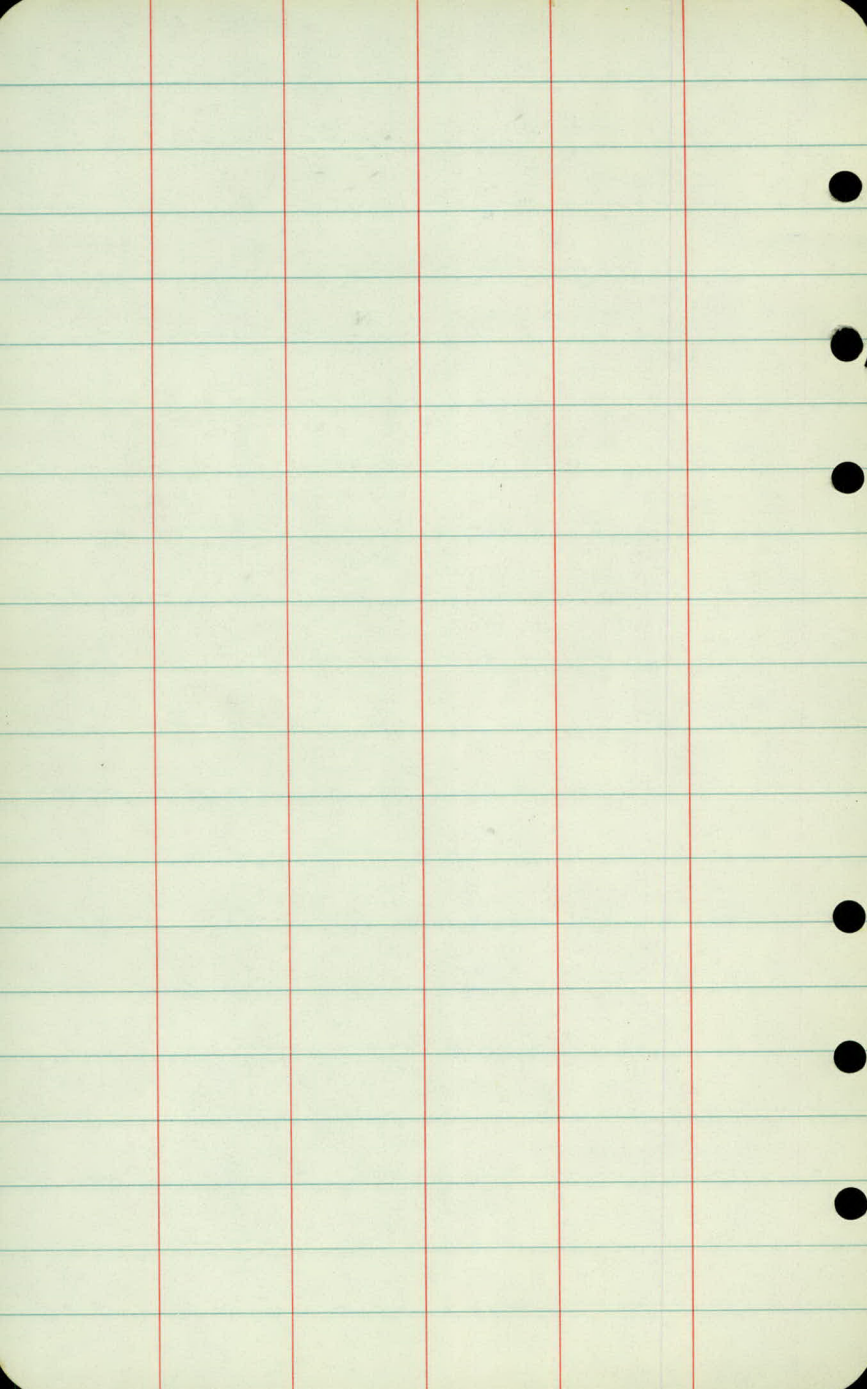
55.7	55.2	53.9	53.9	55.5	55.6
41	46	59	59	43	42
31	27	26	24	17	
				BT.	

✓

55.6	54.2	54.6	55.7	55.8
42	56	56	41	40
31	26	24	17	
			BT	

✓

Spike in PP Rt sta 1+25±



KG
JK
BZ
DD

Aug 8, 1962
Warm, Clear

1

Aldrich Arena

Proposed Sewer Alinement

$\frac{1}{2}$ X-Sections

5 pages

Sta.	Pt.	ΔL	ΔR	Defl
------	-----	------------	------------	------

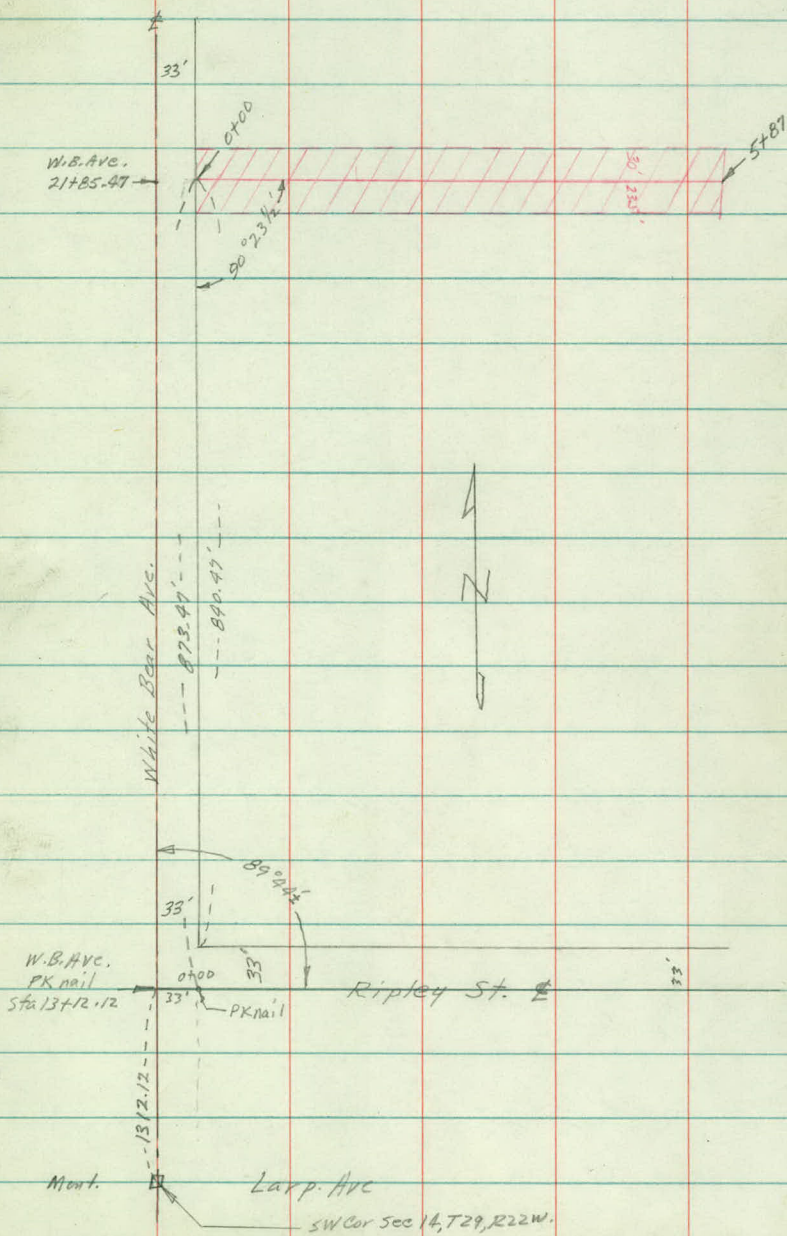
⑥33' Rt

8+73.47	P.I.	90°23 1/2'		
---------	------	------------	--	--

0+00	⑥33' Rt			
------	---------	--	--	--

Aug. 8, 1962

2



Sta	+	π	-	Elev.
BM	9.61	975.06		965.45

0+00

+23

+41

+66

+71

1+00

30' Lt.

4

Aug 8, 1962

Rt. 23.5' 3

Top curb 398' Lt Van Dyke Sta 6+67

72.8	72.9	73.2	73.3	73.3
2.3	2.2	1.9	1.8	1.8
30	20		15	23.5

✓

72.8	72.8	72.9	73.1	73.3
2.3	2.3	2.2	2.0	1.8
30	16		10	23.5

✓

68.1	67.9	67.9	68.1	68.2
7.0	7.2	7.2	7.0	6.9
30	16		12	23.5

✓

67.6	67.4	67.6	67.4	67.2
7.5	7.7	7.5	7.7	7.9
30	16		15	23.5

✓

67.6	67.5	67.6	66.4	66.0
7.5	7.6	7.5	8.7	9.1
30	16		15	23.5

✓

67.6	67.2	67.1	67.2	65.5	65.5
7.5	7.9	8.0	7.9	9.6	9.6
30	15		11	22	23.5

✓

Sta	+	π	-	Elev
-----	---	-------	---	------

		975.06		
--	--	--------	--	--

1+50				
------	--	--	--	--

2+00				
------	--	--	--	--

+50				
-----	--	--	--	--

3+00				
------	--	--	--	--

TP	0.64	969.85	5.85	969.21
----	------	--------	------	--------

3+50				
------	--	--	--	--

4+00				
------	--	--	--	--

Aug 8, 1962

30' Lt

Rt 23.5

4

66.8	66.9	66.9	67.0	67.0
8.3	8.2	8.2	8.1	8.1
30	18		15	23.5



66.9	66.8	67.3	67.1	67.0	67.6	67.6
8.2	8.3	7.8	8.0	8.1	7.5	7.5
30	28	22	15		12	23.5



66.2	66.3	67.2	67.2	67.3	67.3
8.9	8.8	7.9	7.9	7.8	7.8
30	20	14		14	23.5



65.9	65.7	66.2	66.2	66.3	66.3
9.2	9.4	8.9	8.9	8.8	8.8
30	18	12		12	23.5

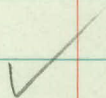


Top conc. post 13' Lt sta 3+05

65.1	64.9	64.9	65.1	65.0
4.8	5.0	5.0	4.8	4.9
30	15		14	23.5



62.8	62.6	62.6	62.7	62.7
7.1	7.3	7.3	7.2	7.2
30	17		13	23.5



Sta	+	π	-	Elev
-----	---	-------	---	------

		969.85		
--	--	--------	--	--

4+50				
------	--	--	--	--

5+00				
------	--	--	--	--

+50				
-----	--	--	--	--

+87				
-----	--	--	--	--

BM				
----	--	--	--	--

	4.41			
--	------	--	--	--

		965.44		
--	--	--------	--	--

			965.45	
--	--	--	--------	--

Aug 8, 1962

30' Lt

4

Rt 23.5

5

61.1	60.9	60.9	61.0	61.1
8.8	9.0	9.0	8.9	8.8
30	18		12	23.5

✓

60.7	60.7	60.7	60.7	60.8
9.2	9.2	9.2	9.2	9.1
30	15		12	23.5

✓

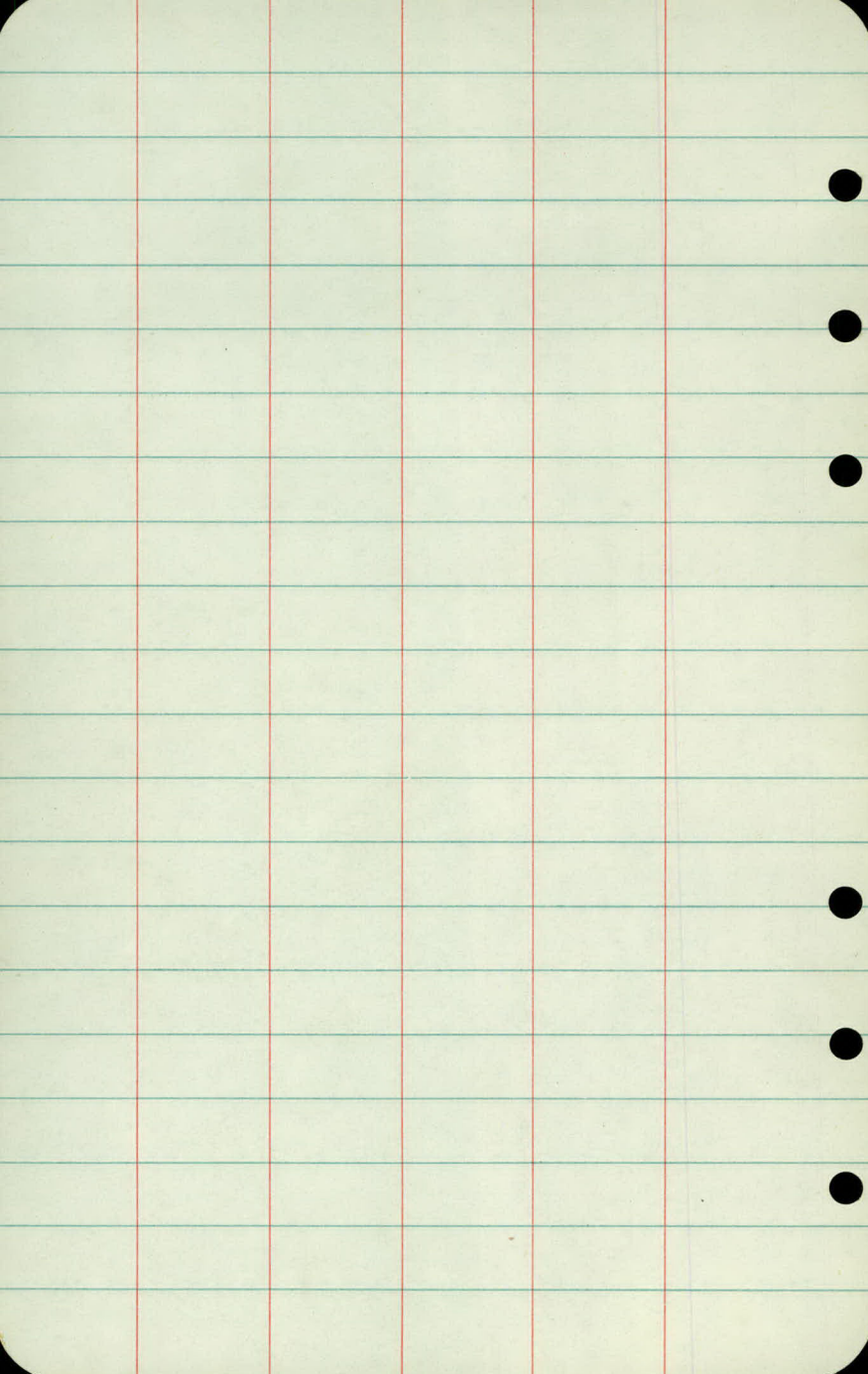
60.5	60.3	60.3	60.5	60.6
9.4	9.6	9.6	9.4	9.3
30	16		12	23.5

✓

60.3	60.3	60.4	60.6	60.6
9.6	9.6	9.5	9.3	9.3
30	16		12	23.5

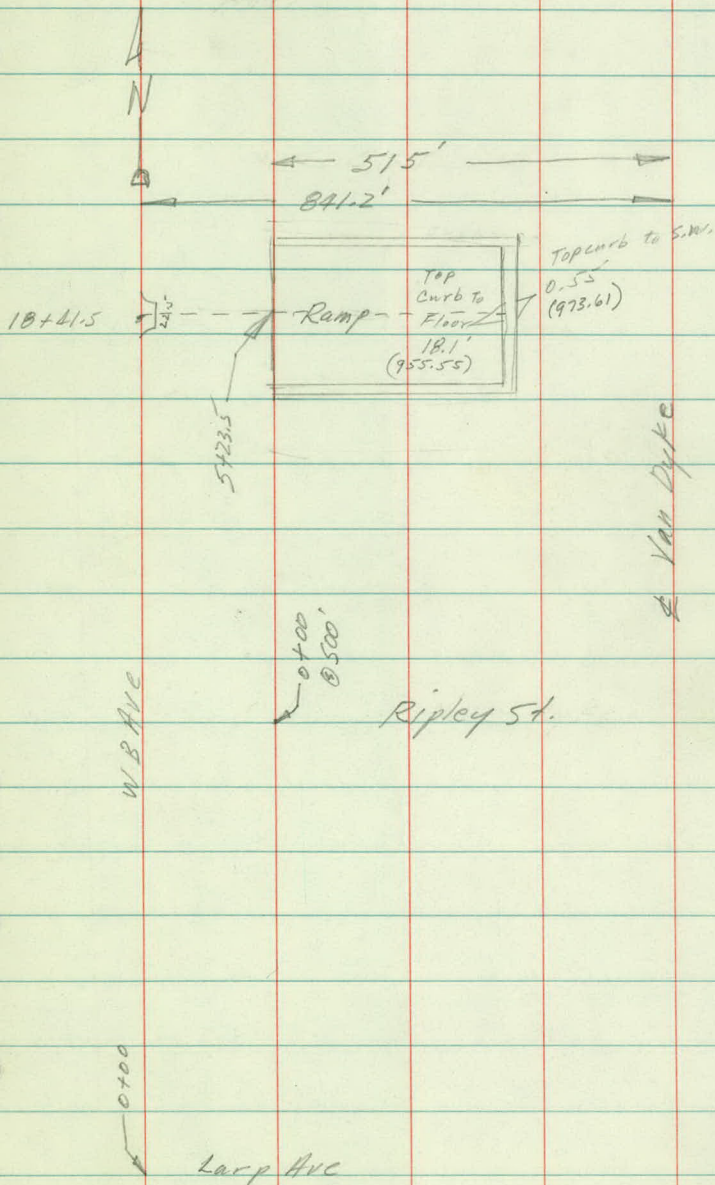
✓

Top curb 398' Lt Van Dyke St. Sta 6+67



July 23, 1962

Aldrich Arena



Sta	+	π	-	Elev.
TBM	4.77	970.22		965.45

5+23.5

✓

TP	11.27	978.91	2.58	967.64
----	-------	--------	------	--------

5+23.5 (cont.)

TP	1.75	978.13	2.53	976.38
----	------	--------	------	--------

B.M.			8.92	969.21	969.05
------	--	--	------	--------	--------

Note: Bottom of Ramp Elev = 955.55

R.G.
WM
WS
JK
BZ

1+

July 23, 1962
Drizzle, 60°
2

West edge Curb on W. side Aldrich Avenue

66.5	66.1	66.5	66.3	65.8	65.0	65.06
3.7	4.1	3.7	3.9	4.4	5.2	5.16
700	665	630	600	570	542	515
						W. edge conc Ent
67.3	68.7					
2.9	1.5					
747	751					

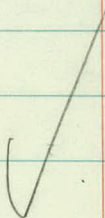
Rock

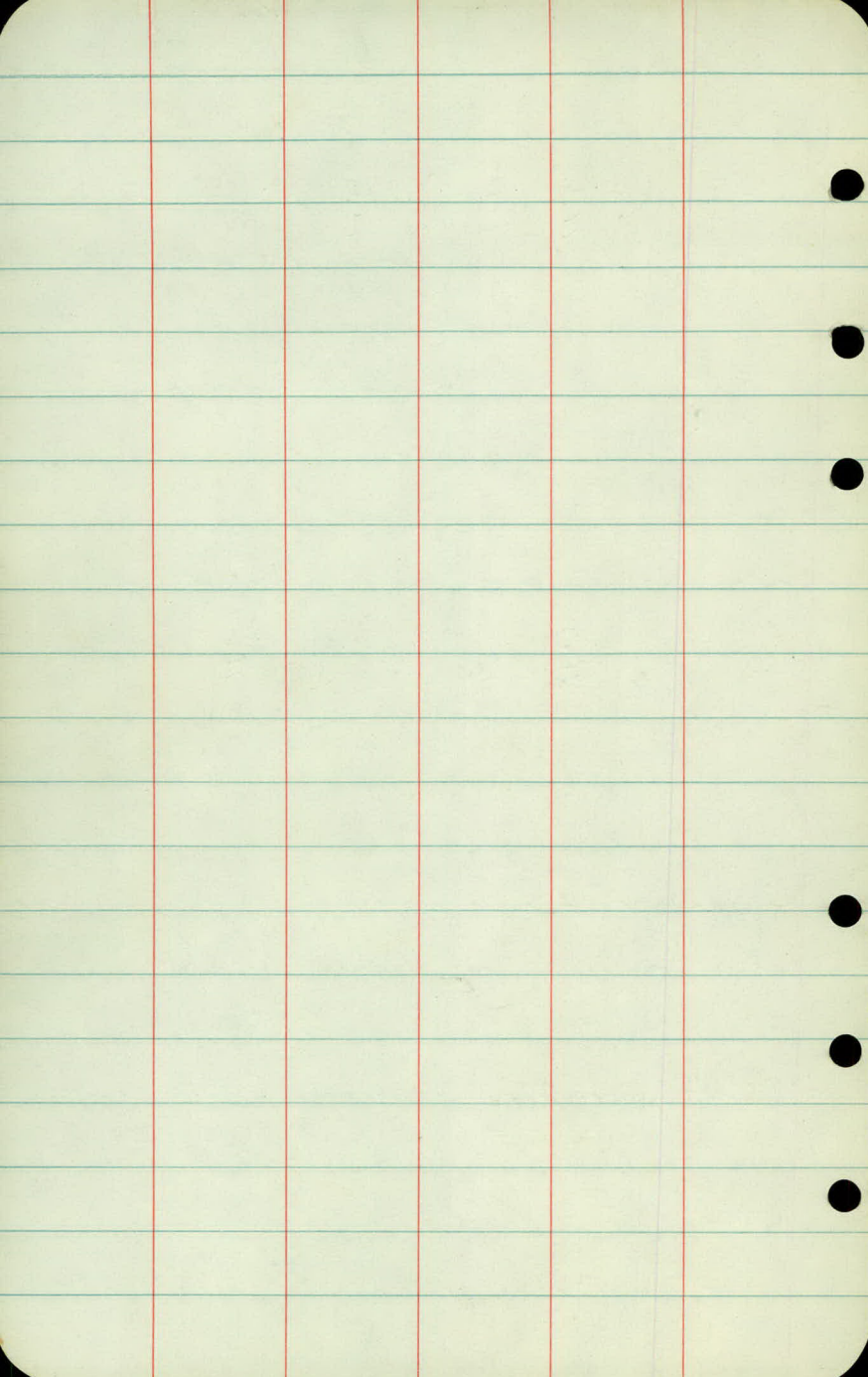
76.4	76.1	76.4	76.3	75.8	73.5	70.5
2.5	2.8	2.5	2.6	3.1	5.4	8.4
841.2	818	806	800	789	782	753
Equal to	Gutter	BT				
± W.B. Ave.		± 22.8' Ent				
Sta 18+41.5						

Sta 18+00 ± W.B. Ave.

Top S.E. Cor. lower Step No. #1805 W.B. Ave

(From prev. notes)





Aldrich Arena
X-Sections

Page 1 Title
Base Line
2 Alignment
3-20 X-Sections

Sta	Point	ΔL	ΔR	Ref.
15+79.36	PI	$90^{\circ}35\frac{3}{4}'$		
13+13.56	PI		$0^{\circ}12\frac{1}{4}'$	
0+00	$\frac{1}{4}\frac{1}{4}$ Line at N. St. Paul Rd. Connection			

KP
WM
LB
WS

25 JUNE 1962

ALDRICH STADIUM

ADDITIONAL X-SECTIONS

STA	+	π	-	ELEV
Bm	7.55	976.60		969.05
0+50				
1+00				
1+50				
2+00				
TP	6.73	980.61	2.72	973.88
2+50				

25 JUNE 1962

1

L+

E

TOP S.E. COR LOWER STEP Ho# 1805 WBA

68.6

8.00

814

TOP

CURB

68.2

8.4

800

69.6³

6.97

814

TOP

CURB

69.6

7.0

800

69.8

6.8

788

10.77

5.83

814

TOP

CURB

11.0

5.6

800

12.2

4.4

788

11.9³

4.67

814

TOP

CURB

12.6

4.0

800

73.07

7.54

814

TOP

CURB

73.51

7.1

800

73.91

6.7

783

73.31

7.3

767

STA

+

π

-

ELEV

980.61

3+00

3+50

+78

4+00

+40

+50

25 JUNE 1962

2

Lt

£

74.2⁶
6.35
814
TOP
CURB

74.4

6.2
800

74.3

6.3
785

72.4

8.2
773

✓

75.1⁶

5.45

814
TOP

CURB

75.0

5.6

800

75.2

5.4

788

71.9

8.7

774

✓

75.5⁸

5.03

814
TOP

CURB

75.4

5.2

800

75.7

4.9

786

72.3

8.3

775

,

75.4⁵

4.76

814
TOP

CURB

75.9

4.7

800

75.7

4.9

786

72.9

7.7

777

71.6

9.0

763

✓

76.2⁵

4.36

814
TOP

CURB

75.9

4.7

800

75.7

4.9

788

73.7

6.9

778

✓

sheet 2

75.2⁹

4.32

814
TOP

CURB

75.9

4.7

800

76.0

4.6

787

73.7

6.9

776

STA	+	Δ	-	ELEV
-----	---	---	---	------

		980.61		
--	--	--------	--	--

5+00				
------	--	--	--	--

+50				
-----	--	--	--	--

3.63	979.67	4.57	976.04	
------	--------	------	--------	--

6+02				
------	--	--	--	--

+50				
-----	--	--	--	--

+72				
-----	--	--	--	--

25 JUNE 1962

3

Lt

L

76.55

4.06

814

TOP

CURB

76.3

4.3

800

76.1

4.5

789

74.3

6.3

780

76.39

4.22

814

TOP

CURB

76.2

4.4

800

75.8

4.8

789

73.0

7.6

776

TOP PK L STA 19+00 WHITE BEAR AVE

76.97

3.70

814

TOP

CURB

76.07

3.6

800

76.67

4.0

788

sheet 2

75.52

4.15

814

TOP

CURB

75.47

4.2

800

75.27

4.4

788

sheet 2

75.26

4.42

814

TOP

CURB

75.07

4.6

800

74.87

4.8

788

STA	+	π	-	ELEV
-----	---	-------	---	------

		979.67		
--	--	--------	--	--

7+00				
------	--	--	--	--

+50				
-----	--	--	--	--

8+00				
------	--	--	--	--

+50				
-----	--	--	--	--

9+00				
------	--	--	--	--

TP	3.21	976.23	6.65	973.02
----	------	--------	------	--------

25 JUNE 1962

L4

£ 4

74.57	74.87	74.47	70.77	✓
5.1	4.8	5.2	8.9	
814	800	789	773	
£ DRIVE				

74.38	74.57	74.47	70.67	✓
5.29	5.1	5.2	9.0	
814	800	787	775	
TOP CURB				

73.90	73.77	73.57	✓
5.77	5.9	6.1	
814	800	787	
TOP CURB			

73.41	73.47	73.07	✓
6.26	6.2	6.6	
814	800	785	
TOP CURB			

72.81	72.77	72.47	✓
6.86	6.9	6.8	
814	800	785	
TOP CURB			

TOP PK & STAZZ

STA

+

A

-

ELEV

976.23

9+50

10+00

TP

7.31

977.02

6.52

969.71

3.48

973.54

(973.50)

25 JUNE 1962

5

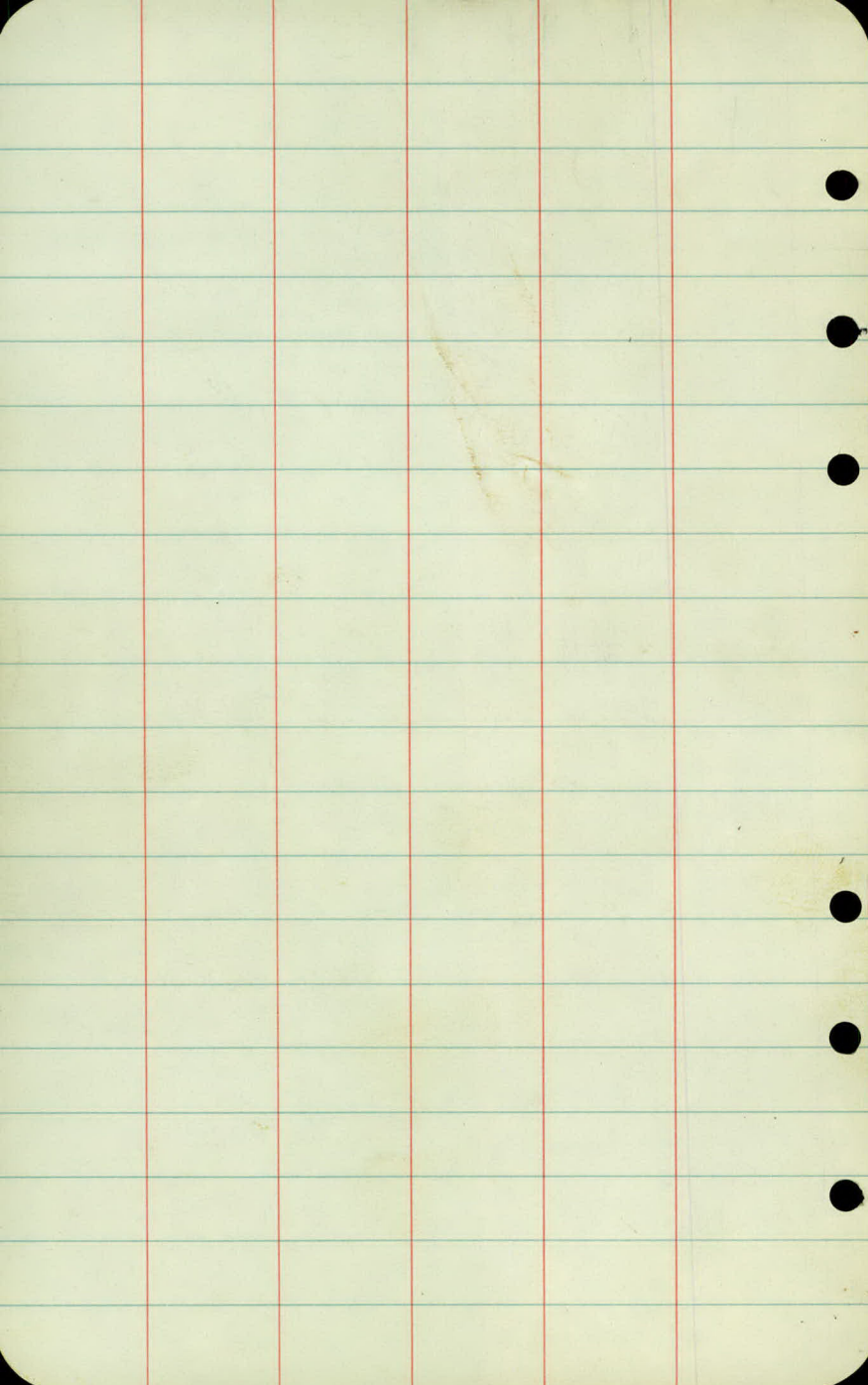
L7

4

71.92	72.44	72.1	72.0
4.31	3.79	4.1	4.2
814	814	800	798
TOP	TOP		
CURB	CURB		
71.92	71.4	71.1	70.2
4.31	4.8	5.1	6.0
814	800	790	770
TOP			
CURB			

S.W. COR LOWER STEP ENT. TO CO. HOME.

TOP HYDRANT 100' RT STA 28+00 WBA



May 28, 1962
cloudy, Rain 68° 2

£

W 1/4 cor
Sec 14

iron

PK Mail

WHITE BEAR AVE.

МН "С"

No. Edge
Arena
6+04.53

100

2000

Base Line

No. Edg &
Arena

Aldrich

Arena

18.05
Top of
curb to
concrete

curt
1.0' wide
0.55' high

So. Edge
Arena

500' Offshore

ОМН "В"

14N DYKE

So. Edge
Avenue

4 sets total

11 steps
0.55 rise
5.0 Tica

5.0 TPCA

0400

Boat Spike

RIPLEY ST.

--- 240.00' ---

NO. ST. PAUL RD.

Sta	+	π	-	Elev
BM	4.02	986.82		982.80
TP	0.02	973.37	13.47	973.35

4+40 So. edge Arena

✓

TP	3.37	974.18	2.56	970.81
----	------	--------	------	--------

4+40 (cont)

✓

TP	3.59	974.36	3.41	970.77
----	------	--------	------	--------

4+50

Sta + π - Elev

974.36

5+00

5+50 conc ent (Nearest tenth)

TP 2.63 975.40 1.59 972.77

6+02 Edge Bldg

✓

TP 0.89 973.70 2.59 972.81

4+50

✓

May 29, 1962

LT

4

72.71	72.59	72.6	71.5	69.8	67.8	66.1	63.8	63.1	63.6	64.2
1.65	1.77	1.8	2.9	4.6	6.6	8.3	10.6	11.3	10.8	10.2
153 Bldg	133 conc	133	120	100	75	56	29	25	17 BT	±

72.73	72.59	71.7	69.9	67.9	66.1	64.0	63.1	63.3	63.7
1.63	1.77	2.7	4.5	6.5	8.3	10.4	11.3	11.1	10.7
153 Bldg	133 conc	120	100	77	53	29.5	19	13 BT	±

N. side E. ent 10' E. of Bldg.

73.0	73.0	72.7	72.2	71.1	69.2	66.6	64.6	63.0	63.0	63.5
2.4	2.4	2.7	3.2	4.3	6.2	8.8	10.8	12.4	12.4	11.9
173	153 Bldg	138	131	119	100	72	47	22	18 BT	±

73.1	72.84	72.82	73.0	72.9	72.84	72.85
2.3	2.56	2.58	2.4	2.5	2.56	2.55
200	224 conc	244 conc	269	300	324 conc	344 conc

Top NW Cor top step West Ent, on N. Side Aldrich Arena

66.4	65.9	65.7	65.2	66.2	68.1	70.0	71.2	73.00	73.04
7.3	7.8	8.0	8.5	7.5	5.6	3.7	2.5	0.70	0.66
600	565	541	518	500	480	461	435	424 conc	415 conc

66.5	66.5	66.5	66.7	66.7	66.5	67.6	71.3	72.0
7.2	7.2	7.2	7.0	7.0	7.2	6.1	2.4	1.7
620	645	669	700	716	741	747	754	769

Sta + π - E/V.

973.70

5+00 Conc Ent

✓

5+50 Conc Ent

✓

5+36

0.13

73.51

5+06

0.09

73.61

6+02 Edge Bldg.

✓

R6
WM
LB
WS

May 31, 1962
cloudy, 60°

Lt

5

66.3	65.9	65.3	65.08	66.3	68.9	71.3	73.02	73.01
7.4	7.8	8.4	8.62	7.4	4.8	2.4	0.68	0.69
600	567	537	515	500	470	443	424	415
			conc	conc			conc	conc

66.4	66.4	66.3	66.6	66.8	67.3	68.5	69.0	71.3	72.1
7.3	7.3	7.4	7.1	6.9	6.4	5.2	4.7	2.4	1.6
620	640	674	700	720	742	744	750	757	769

66.1	65.6	65.0	65.08	66.4	67.7	69.5	71.3	72.85	72.88
7.6	8.1	8.7	8.62	7.3	6.0	4.2	2.4	0.85	0.82
583	563	533	515	500	469	458	436	424	415
			conc	conc	conc	conc	conc	conc	conc

66.2	65.8	65.6	66.2	66.5	66.4	67.0	70.8	71.9
7.5	7.9	8.1	7.5	7.2	7.3	6.7	2.9	1.8
600	626	654	684	700	728	747	754	766

Top Curb 423.5' Lt

Top Curb 423.5' Lt Note 18.05' from top of curb to floor of Ent. ramp below.

955.55

65.2	64.9	66.0	68.1	70.8	72.9	73.2	73.1	72.2	72.0
8.5	8.8	7.7	5.6	2.9	0.8	0.5	0.6	0.5	0.7
550	523	500	480	453	429	415	400	380	360
						Bldg			

65.3	65.4	65.5	65.2	65.8	65.9	65.9	66.6	69.1	71.6
8.4	8.3	8.2	8.5	7.9	7.8	7.8	7.1	4.6	2.1
581	600	626	652	677	700	721	749	756	772

Sta	+	π	-	Elev
-----	---	-------	---	------

973.70

TP	5.93	971.38	8.25	965.45
----	------	--------	------	--------

6+50

✓

✓

✓

+58

5.91

65.47

6.53

64.85

+63

6.66

64.72

+67

5.86

65.52

+67

6.46

64.92

+67

5.93

965.45

+67

6.55

64.83

26
WM
LB
WS

Lt.

May 31, 1962
Cl. Windy, Cold

6

Top West End Curb on N Side Aldrich Arena

67.56	67.2	67.1	66.8	66.5	66.1	65.4	64.9	63.8	62.3	61.6	60.0
3.82	4.2	4.3	4.6	4.9	5.3	6.0	7.5	8.6	9.1	8.8	8.4
224	224	200	180	153	127	100	66	35	21	16	8
											BT

Topstop (44)

67.54	67.1	67.4	67.5	67.2	67.1	67.49	67.2	67.6	67.9	67.9
3.84	4.3	4.0	3.9	4.2	3.96	3.89	4.2	3.8	3.5	3.5
244	244	266	300	323	323	324	344	370	400	430
Top (44) Stop				Top (44) Stop		Top Stop				

65.1	65.5	65.3	65.2	65.1	65.1	65.1	64.3	65.6	67.2	67.7
5.7	5.9	6.1	6.1	6.3	6.3	6.3	7.1	5.8	4.2	3.7
700	681	658	628	600	571	548	519	500	476	454

65.9	66.2	66.2	70.8
5.5	5.2	2.2	0.6
727	747	755	774

Top Curb 163' Lt

Bottom Curb (sidewalk) 163' Lt

North edge S.W. 163' Lt

Top Curb 224' Lt

Bottom Curb (S.W.) 224' Lt

Top Curb 398' Lt

Bottom curb (S.W.) 398' Lt

Sta	+	π	-	E/v
-----	---	-------	---	-----

971.38

+72	No. edge	Sidewalk		
-----	----------	----------	--	--

✓

✓

9700

✓

✓

May 31, 1962

12

£

7

64.76	64.75	64.3	64.1	63.8	63.7	63.3	62.9	62.1	62.4	63.0
6.62	6.63	7.1	7.3	7.6	7.7	8.1	8.7	9.3	9.0	8.4
266	224	224	200	174	135	100	57	24	18	£
S.W.	S.W.	NG							BT	
	(begin)									

64.6	64.81	64.6	64.72	64.3	64.70	64.7	64.4	64.9
6.19	6.59	6.8	6.66	7.1	6.68	6.7	7.0	6.5
266	300	300	350	350	398	398	400	429
NG	S.W.	NG	S.W.	NG	S.W.	NG		
					(end)			

70.9	70.3	66.2	65.7	65.4	65.1	65.2	64.6	64.6	64.6	64.8
0.5	1.1	5.2	5.7	6.0	6.3	6.2	6.8	6.8	6.8	6.6
773	754	749	700	649	593	559	528	500	479	454

62.7	62.9	62.4	62.2	62.3	62.1	62.3	61.7	62.3	62.8
8.7	8.5	9.0	9.2	9.1	9.3	9.1	9.7	9.1	8.6
340	300	251	200	156	100	56	23	18	£
								BT	

62.3	62.4	62.6	63.1	63.3	65.1	65.3	65.4	65.5	65.7	65.6
9.1	9.0	8.8	8.3	8.1	6.3	6.1	6.0	5.9	5.7	5.8
378	400	437	469	500	552	581	600	646	684	700

70.4	69.5	66.3	65.9
1.0	1.9	5.1	5.5
767	753	745	728

Sta	+	π	-	Elev
-----	---	-------	---	------

		971.38		
--	--	--------	--	--

7+50				
------	--	--	--	--

✓				
---	--	--	--	--

✓				
---	--	--	--	--

TP	3.36	968.81	5.93	965.45
----	------	--------	------	--------

8+00				
------	--	--	--	--

✓				
---	--	--	--	--

✓				
---	--	--	--	--

TP	5.09	970.64	3.26	965.55
----	------	--------	------	--------

RG
WM
LB
WS

May 31, 1962
June 1, 1962

LX

£

8

60.9	60.9	61.2	61.2	61.1	61.1	61.6	60.8	61.9	62.5
10.5	10.5	10.2	10.2	10.3	10.3	9.8	10.4	9.5	8.9
249	200	169	140	100	69	29	26	14	£
								BT	

61.2	61.2	61.3	61.4	62.1	62.7	63.7	64.4	65.1	65.4
10.2	10.2	10.1	10.0	9.3	8.7	7.7	7.0	6.3	6.0
282	300	334	360	400	424	462	500	543	577

70.2	69.2	66.1	66.1	65.7	65.6	65.4	65.4
1.2	2.2	5.3	5.3	5.7	5.8	6.0	6.0
768	749	743	724	700	671	646	600

Top Carb Sta 6+67 LX 398'

60.3	60.7	60.6	60.7	61.0	60.7	61.0	60.8	60.4	61.7	61.7	62.4
8.5	8.1	8.2	8.1	7.8	8.1	7.8	8.0	8.4	7.1	7.1	6.4
227	200	181	151	112	100	66	31	24	19	16	£
										BT	

60.5	60.7	60.8	61.0	61.8	62.7	63.5	64.5	64.7	65.4	65.7
8.3	8.1	8.0	7.8	7.0	6.1	5.3	4.3	4.1	3.4	3.1
248	272	300	339	378	460	426	456	477	500	545

70.1	69.1	66.4	66.0	65.4	65.2	65.5	66.4	66.2	66.4
+1.3	+0.3	2.4	2.8	3.4	3.6	3.3	2.4	2.6	2.4
773	751	742	725	700	679	659	635	600	571

Spike in ground

Sta	+	π	-	E/v _i
-----	---	-------	---	------------------

		970.64		
--	--	--------	--	--

8+50				
------	--	--	--	--

✓				
---	--	--	--	--

✓				
---	--	--	--	--

✓				
---	--	--	--	--

9+00				
------	--	--	--	--

✓				
---	--	--	--	--

✓				
---	--	--	--	--

June 1, 1962

1+

4 9

60.7	61.1	60.8	60.6	60.5	60.6	60.8	60.2	61.5	61.7
9.9	9.5	9.8	10.0	10.1	10.0	9.8	10.4	9.1	8.7
200	176	147	119	100	71	49	25	16	8
								BT	

60.5	60.5	60.4	60.8	60.8	61.1	61.6	62.7	63.8	64.7
10.1	10.1	10.2	9.8	9.8	9.5	9.0	7.9	6.8	5.9
226	252	282	300	325	354	376	400	426	447

65.5	66.1	66.9	67.2	67.3	67.1	66.5	66.3	66.0	65.4
5.1	4.5	3.7	3.4	3.3	3.5	4.1	4.3	4.6	5.2
700	672	650	625	600	564	552	525	500	470

64.8	65.5	67.0	68.3
5.8	5.1	3.6	2.3
723	733	743	770

60.2	60.3	60.7	60.7	60.4	60.9	60.4	61.0	60.4	60.9	61.5
10.4	10.3	9.9	9.9	10.2	9.7	10.2	9.6	10.2	9.7	9.1
225	200	178	148	125	100	60	36	25	16	8
								BT		

60.2	60.3	60.6	60.6	60.8	61.6	62.4	63.3	64.7	64.9	66.1
10.4	10.3	10.0	10.0	9.8	9.0	8.2	7.3	5.9	5.2	4.5
248	275	300	324	347	375	400	421	450	475	500

67.4	66.6	66.9	66.6	66.8	66.8	66.6	66.2	65.9
3.2	4.0	3.7	4.0	3.8	3.8	4.0	3.4	4.7
700	671	653	645	626	600	587	552	524

5+9

+

π

-

Elev.

970.64

9+00

+50

✓

✓

10+00

✓

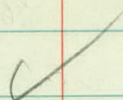
June 1, 1962

14

£

10

67.5	67.7	68.3	70.6
3.1	2.9	2.3	0.0
729	757	770	779



60.4	60.4	60.2	60.2	60.0	60.3	60.6	60.8	59.9	60.9	61.0
10.2	10.2	10.4	10.4	10.6	10.3	10.0	9.8	10.7	9.7	9.6
230	200	180	154	124	100	66	35	24	18	BT

60.6	60.5	60.4	61.3	62.6	63.8	65.5	66.3	66.2
10.0	10.1	10.2	9.3	8.0	6.8	5.1	4.3	4.4
269	300	336	369	400	425	458	500	529

70.6	67.8	67.6	68.0	67.9	67.2	66.9	67.0	66.9	66.5
0.0	2.8	3.0	2.6	2.7	3.4	3.7	3.6	3.7	4.1
781	772	747	723	700	668	636	600	589	557

60.1	59.9	60.0	60.2	59.7	59.7	59.9	60.1	59.3	60.4	60.8
10.5	10.7	10.6	10.4	10.9	10.9	10.7	10.5	11.3	10.2	9.8
271	236	200	169	131	100	48	29	24	18	BT

60.6	60.3	61.2	62.7	64.3	65.4	66.2	65.8
10.0	10.3	9.4	7.9	6.3	5.2	4.4	4.8
300	332	369	400	433	451	466	500

Sta + π - Elev

970.64

10+00

T.P. 5.70 973.24 3.10 967.54

10+00

TP 8.19 980.76 0.67 972.57

TP 2.00 973.50 9.26 971.50

BM 0.49 969.57 4.42 969.08 (969.05)

TP 10.75 977.19 3.13 966.44

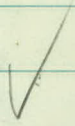
TP 11.27 986.56 1.91 975.29

BM 3.72 982.84 (982.80)

June 1, 1962

£ 11

68.8	68.5	67.2	67.2	66.6	66.4	65.9	65.7
1.8	2.1	3.4	3.4	4.0	4.2	4.7	4.9
700	675	652	622	600	579	553	526



Rock

69.7	70.0	70.2	71.5
3.5	3.2	3.0	1.7
727	754	781	800

Rock

£ sta 15+00 W.B. Ave.

Top S.E. Cor. lower step Ho#1805 W.B. Ave.

Top SE cor East loading platform "Krogers." (Ripley St)

Rock

Spike in PP NE Cor Ripley St & No. St. Paul Rd

Sta	+	$\bar{A}$	-	Elev.
T.B.M.	3.40	968.85		965.45

10+50

✓

11+00

✓

11+50

✓

RG
WM
LB
WS

Lt

June 6, 1962
Fog 60°

£

12

Top Curb 398' Lt Sta 6+67 Van Dyke St. 0+00 = Ripley St

60.0	59.3	59.4	59.7	59.4	59.2	59.2	59.7	59.3	59.9	60.4
8.9	9.6	9.5	9.2	9.5	9.7	9.7	9.2	9.6	9.0	8.5
269	235	200	169	134	100	68	40	22	16	£
									3T	

60.4	60.7	60.9	61.6	62.3	63.7	63.8	63.5
8.5	8.2	8.1	7.3	6.6	5.2	5.1	5.4
300	333	359	366	372	393	400	413
					BT	£	on curve

59.4	58.8	59.0	59.2	59.2	59.3	59.3	59.4	58.9	59.4	59.7
9.5	10.1	9.9	9.7	9.7	9.6	9.6	9.5	10.0	9.5	9.2
267	235	200	160	137	100	68	33	25	16	£
								BT		

59.7	60.1	60.5	61.4	61.7	63.1	63.0
9.2	8.8	8.4	7.5	7.2	5.8	5.9
300	331	354	360	369	378	387
				BT	£	on curve

58.3	58.2	58.6	58.7	58.7	58.7	58.6	58.8	58.3	58.8	59.1
10.6	10.7	10.3	10.2	10.2	10.2	10.3	10.1	10.6	10.1	9.8
276	249	200	169	132	100	69	32	26	16	£
								BT		

58.4	58.8	59.9	61.9	62.0	62.0
10.5	10.1	9.0	7.0	6.9	6.9
300	333	358	369	371	380
				BT	£

sta + π - EIV.

968.85

12+00

✓

TP 0.65 961.37 8.13 960.72

12+50

✓

12+68

5.41 55.96

12+68

3.85 57.52

13+00

✓

June 6, 1962

Lt

±

13

57.3	57.4	57.9	58.4	58.3	58.2	58.2	58.0	57.3	58.2	58.4
11.6	11.5	11.0	10.5	10.6	10.7	10.7	10.9	11.6	10.7	10.5
268	240	200	165	135	100	53	29	23	16	±

57.4	57.3	58.2	61.0	61.2
11.5	11.6	10.7	7.9	7.7
300	331	362	369	378
			BT	±

Rock

56.5	57.2	57.3	57.4	56.9	56.9	57.1	57.1	56.3	57.4	57.9
4.9	4.2	4.1	4.0	4.5	4.5	4.3	4.3	5.1	4.0	3.5
238	200	169	139	100	78	49	31	25	16	±
									BT	

56.4	56.2	56.0	56.2	56.9	60.6	61.0
5.0	5.2	5.4	5.2	4.5	0.8	0.4
271	300	329	352	363	369	378
					BT	±

Inv. E. end 15"X32' CM Lt 360' ± Van Dyke

" W. " 15"X32' CM

57.1	57.0	57.4	56.7	56.5	55.8	56.5	55.8	56.8	57.1
4.3	4.4	4.0	4.7	4.9	5.6	4.9	5.6	4.6	4.3
200	172	135	100	85	52	29	24	17	±

56.3	56.2	55.9	55.7	56.5	60.1	60.8
5.1	5.2	5.5	5.7	4.9	1.3	0.4
233	269	300	332	352	369	378
					BT	±

sta	+	π	-	E/v
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		961.37		
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13+50				
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✓				
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14+00				
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✓				
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14+50				
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✓				
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TP	5.90	961.61	5.66	955.71
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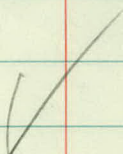
June 6, 1962

Lt

14

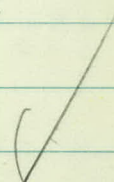
55.4	55.6	56.5	56.7	56.8	57.2	57.2	56.1	56.1	55.2	56.1	56.5
6.0	5.8	4.9	4.7	4.4	4.2	4.2	5.3	5.3	6.2	5.3	4.9
300	278	242	200	177	140	100	63	29	23	16	BT

55.6	56.1	59.9	60.9	60.7
5.8	5.3	1.5	0.5	0.7
302	356	369	375	384
			BT	BT



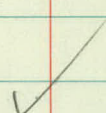
56.6	55.4	56.1	56.7	57.1	57.1	56.2	56.5	54.8	55.7	55.9
7.8	6.0	5.3	4.7	4.3	4.3	5.2	4.9	6.6	5.7	5.5
221	200	182	172	138	100	69	35	23	15	BT

55.7	55.4	55.4	55.5	56.0	60.8	60.6
5.7	6.0	6.0	5.9	5.4	0.6	0.8
253	282	300	334	358	377	389
					BT	BT



55.8	55.9	56.0	57.1	57.1	56.7	55.9	55.9	55.9	54.1	55.0	55.3
5.6	5.5	5.4	4.3	4.3	4.7	5.5	5.5	5.5	7.3	6.4	6.1
225	200	196	182	161	133	100	75	38	24	15	BT

55.0	55.0	55.0	55.5	56.7	59.3	61.2
6.4	6.4	6.4	5.9	4.7	2.1	0.2
250	275	300	338	371	397	409
					BT	BT



Spike in Flood Lt. Pole 100' Lt Sta 16+00 ±

Sta + π - Elev

961.61

15+00

✓
T.P. 3.93 959.64 5.90 955.71

+50

✓
+79³⁶ ± Rd. (30')

T.P. 9.12 965.54 3.82 955.82

T.P. 12.99 978.16 0.37 965.17

T.P. 6.53 984.58 0.11 978.05

B.M. 1.76 982.82

(982.80)

20
WM
LB
WS

L+

June 7, 1962
P.C. 650

15

55.6	56.3	57.1	56.8	57.7	54.9	54.3	55.4	53.8	54.4	54.7
6.0	5.3	4.5	4.8	5.9	6.7	7.1	6.2	7.8	7.2	6.9
228	200	187	153	124	100	65	36	26	16	BT

55.4	54.8	54.6	55.4	57.0	59.4
6.2	6.8	7.0	6.2	4.6	2.2
251	278	300	338	373	400

Spike in Flood Lt. Pdz 100± Lt 16+00±

55.1	55.5	55.8	55.6	55.5	55.1	54.1	53.6	52.3	53.6	54.3
4.5	4.1	3.8	4.0	4.1	4.5	5.5	6.0	7.3	6.0	5.3
281	254	226	200	172	140	100	67	37	28	BT

54.9	55.2	55.6	57.5	59.4
4.7	4.4	4.0	2.1	0.2
300	325	348	375	400

59.3	57.6	56.6	56.0	55.6	55.3	54.8	54.4	54.3	54.2	53.8
0.3	2.0	3.0	3.6	4.0	4.3	4.8	5.2	5.3	5.4	5.8
400	350	300	250	200	150	100	69	51	32	170m

spike in ground.

spike in ground.

spike in ground.

Spike in P.P. 27 Lt Sta 17+06 No. St. Paul Rd.

Sta	+	π	-	Elev.
TBM	2.17	972.94		970.77
0+50				
✓				
✓				
1+00				
✓				
✓				

RG
WM
LB
WS

June 7, 1962
PC 650

16

16

Top SE. Cor 9th step East Ent. on So. Side Aldrich Arena

55.4	55.9	56.3	57.5	58.2	59.3	60.4	62.1	63.5	66.3	66.9
17.5	17.0	16.6	15.4	14.7	13.6	12.5	10.8	9.4	6.6	6.0
300	266	236	200	168	129	100	64	31	18	BT

55.3	54.8	55.0	54.0	54.4	54.9	55.6	56.7	57.4
17.6	18.1	17.9	18.9	18.5	18.0	17.3	16.2	15.5
332	368	400	444	484	500	535	569	600

69.4	66.8	65.7	63.0	61.7	59.8
3.5	6.1	7.2	9.9	11.2	13.1
785	738	715	700	665	635

57.3	58.1	58.1	58.4	60.5	62.2	63.0	64.6	62.9	66.3	66.5
15.6	14.8	14.8	14.5	12.4	10.7	9.9	8.3	10.0	6.6	6.4
269	234	200	187	167	131	100	68	42	19	BT

56.6	55.8	55.6	55.8	54.9	55.4	56.0	57.6	58.9
16.3	17.1	17.3	17.1	18.0	17.5	16.9	15.3	14.0
300	331	369	400	428	470	500	537	570

72.6	69.1	67.4	65.2	63.4	61.4	59.9
0.3	3.8	5.5	7.7	9.5	11.5	13.0
770	722	700	680	654	629	600

Sta	+	π	-	Elev.
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		972.94		
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1450				
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✓				
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✓				
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2400.				
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✓				
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✓				
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June 1, 1962

Lt.

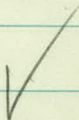
£

17

57.1	57.5	58.4	58.5	58.49	60.3	62.1	63.4	63.5	66.1	66.4
15.8	15.4	14.5	14.4	14.95	12.6	10.8	9.5	9.4	6.8	6.5
300	269	232	200	196	150	100	68	44	16	£
				M.H.					B.T.	

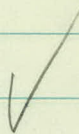
57.2	57.7	58.2	59.2	60.5	60.8	61.1	61.5
15.7	15.2	14.7	13.7	12.4	12.1	11.8	11.4
335	323	400	437	470	500	530	561

72.9	70.7	68.4	66.2	63.5	62.5	61.9	63.8
0.0	2.2	4.5	6.7	9.4	10.4	11.0	9.1
775	734	700	672	629	600	579	572



59.6	59.5	59.1	59.3	59.5	60.1	61.5	62.0	64.0	65.6	66.1
13.3	13.4	13.8	13.6	13.4	12.8	11.4	10.9	8.9	7.3	6.8
300	278	231	200	187	156	100	85	32	16	£
									B.T.	

59.6	60.1	61.4	63.4	63.2	62.0	62.3	63.0
12.3	12.8	11.5	9.5	9.7	10.9	10.6	9.9
340	374	400	432	464	500	537	564



73.4	71.6	69.9	68.0	65.7	64.2
10.5	1.3	3.0	4.9	7.2	8.7
778	733	700	673	636	600

Sta

+

π

-

Elev.

972.94

2+50

✓

✓

3+00

✓

✓

TBM

5.78

971.26

746

965.48

June 7/1962

L +

18.

61.1	60.6	60.1	60.2	59.6	61.0	60.6	62.5	63.8	65.2	65.8
11.8	12.3	12.8	12.7	13.3	11.9	11.3	10.4	9.1	7.7	7.1
300	275	234	200	174	139	100	83	30	16	8

BT.

61.2	62.5	63.9	64.5	63.7	63.3	63.4	64.9	66.2
11.7	10.4	9.0	8.4	9.2	9.6	9.5	8.0	6.7
331	370	400	434	479	500	538	580	600

72.0	69.4	65.6	67.8
0.9	3.5	7.3	5.1
735	700	663	636

62.4	62.3	60.9	60.4	60.3	60.2	61.3	62.6	64.0	63.8	64.8	65.5
10.5	10.6	12.0	12.5	12.6	12.7	11.6	10.3	8.9	9.1	8.1	7.4
334	300	270	234	200	165	130	100	59	30	18	8

BT.

63.6	64.6	65.2	64.5	64.2	64.7	65.9	67.8	69.1
9.3	8.3	7.7	8.4	8.7	8.2	7.0	5.1	3.8
362	400	435	469	500	538	571	600	626

72.2	71.9	70.2	68.3	69.0	70.1
0.7	1.0	2.7	4.6	3.9	2.8
761	744	730	700	662	647

(1st step)

Top SW. Cor. Lower Step West Ent. So Side Aldrich Acreng

Sta	+	π	-	Elev
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		971.26		
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3+50				
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✓				
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✓				
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3+78				
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✓				
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✓				
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✓				
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126
WM
LB
WS

June 8, 1962
PC 750

Lt

£

19

62.5	62.1	61.8	62.0	62.2	62.5	63.2	63.7	64.3	63.8	64.7	65.2
8.8	9.2	9.5	9.3	9.1	8.8	8.1	7.6	7.0	7.5	6.6	6.1
300	269	240	200	172	135	100	82	54	25	17	£

BT

63.1	63.8	64.3	64.4	65.3	65.7	66.5	68.0	67.9
8.2	7.5	7.0	6.9	6.0	5.6	4.8	3.3	3.4
332	366	400	431	463	500	532	564	600

71.3	71.0	69.4	68.0	66.7	67.4	67.7
0.0	0.3	1.9	3.3	4.6	3.9	3.6
760	758	753	734	700	666	636

65.36	64.8	64.5	64.5	64.5	64.5	64.6	64.7	64.5	63.7	64.8	65.0
5.90	6.5	6.8	6.8	6.8	6.8	6.7	6.6	6.8	7.6	6.5	6.3
224	224	200	177	153	126	100	77	52	25	16	£

Topstep BT

65.36	64.7	64.7	64.6	65.0	65.47	65.48	65.2	65.1	65.2	65.0
5.90	6.6	6.6	6.7	6.3	5.79	5.78	6.1	6.2	6.1	6.3
245	245	280	300	325	324	324	344	378	400	435

Topstep Topstep Topstep

66.8	66.8	67.3	66.5	66.3	65.5	65.0	65.0	64.9
4.5	4.5	4.0	4.8	5.0	5.8	6.3	6.3	6.4
700	668	634	600	593	543	516	500	471

66.9	67.6	70.3	70.9	71.3
4.4	3.7	1.0	0.4	0.0
739	750	755	757	760

Sta	+	π	-	Elev
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		971.26		
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4+00				
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✓				
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✓				
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✓				
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TP	13.52	980.90	3.88	967.38
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TP	8.90	987.60	2.20	978.70
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BM			4.75	982.85 (982.80)
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BM				(966.97)
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June 8, 1962

Lt

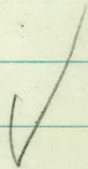
$\frac{1}{2}$

20

68.78	68.72	68.4	68.3	68.3	68.4	67.5	65.8	64.1	64.5	65.0
248	254	29	3.0	3.0	2.9	3.8	5.5	7.2	6.8	6.3
245	224	224	200	171	137	100	58	25	16	8
Top step		Top step						8T		

68.2	68.5	68.5	68.3	68.79	68.81	68.2	68.4	68.3	68.1
3.1	2.8	2.8	3.0	2.47	2.47	3.1	2.9	3.0	3.2
245	283	300	324	324	344	344	371	400	437
Top step				Top step	Top step				

66.9	66.6	66.8	66.4	66.4	66.7	65.8	65.3	66.1	67.2
4.4	4.7	4.5	4.9	4.9	5.0	5.5	6.0	5.2	4.1
747	700	675	640	600	581	553	517	500	473



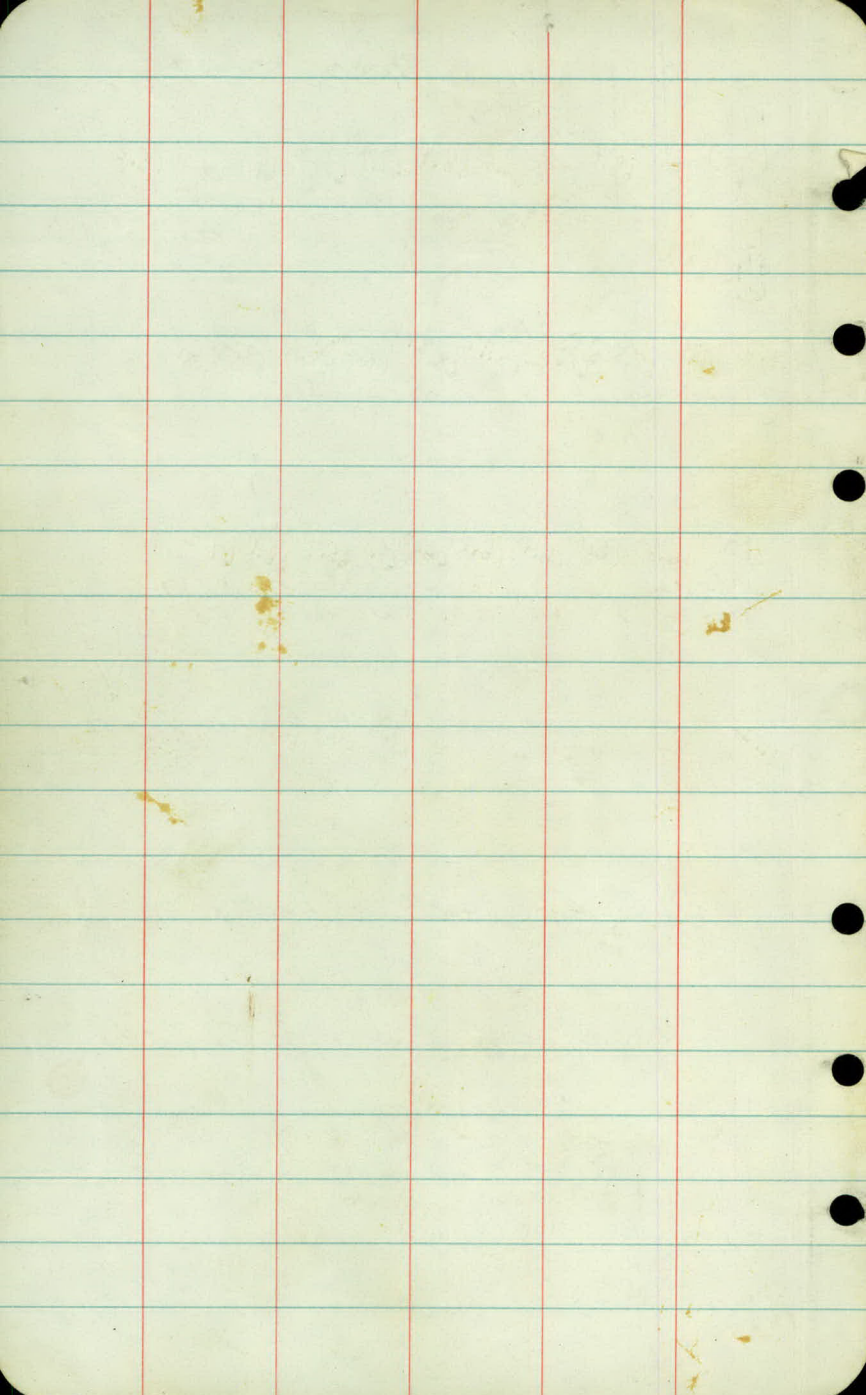
71.2
0.1
754

Boat spike Sta 0+00 (840.0' E. of W 1/4 1/4 line Sec 14)

Rock

Spike in PP 27' Lt Sta 17+06 No. St. Paul Rd.

Nails in P.P.



FK
DS
LPD

March 23, 1967

1

Ripley St.

C.B. Inv. Elev.

Sta	+	π	-	Elev.
BM	3.92	972.97		969.05

BM			2.60	970.37
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T.P.	3.22	966.56	9.63	963.34
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V _{TP}			0.22	.34	966.44
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Inv. C.B.	So.	12.88	953.68
	No.	12.98	53.58

BM			1.19	65.37
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BM	8.60	974.62	0.54	966.02
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TP	9.77	984.08	0.31	974.31
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BM			1.28	982.80
BM			5.36	982.80

Top S.E. Cor. Lower step H₂ # 1805 W.B.A.

Top Hyd NE Cor Ripley + White Bear Ave

8.09
4.79 489

62.9	59.9	59.6	59.7	60.0	60.5	61.9	962.58
3.7	67	7.0	6.9	6.6	6.1	4.7	3.98
200	150	118	100	77	46	21	Curb at CB
Parking Lot							
63.7	64.5	65.1					
2.9	2.1	1.5					
250	300	350	354				
			conc				

S.W. Cor. Lower step East Steps S. Side Aldrich
Aldrich
Arona

Top Hyd N.W. Cor Vandyke + Ripley

Spike in PP 27' Lt Sta 17+06 N. St. P. Road

+ Hyd at R. H. H.

staked Sep 28, 1962

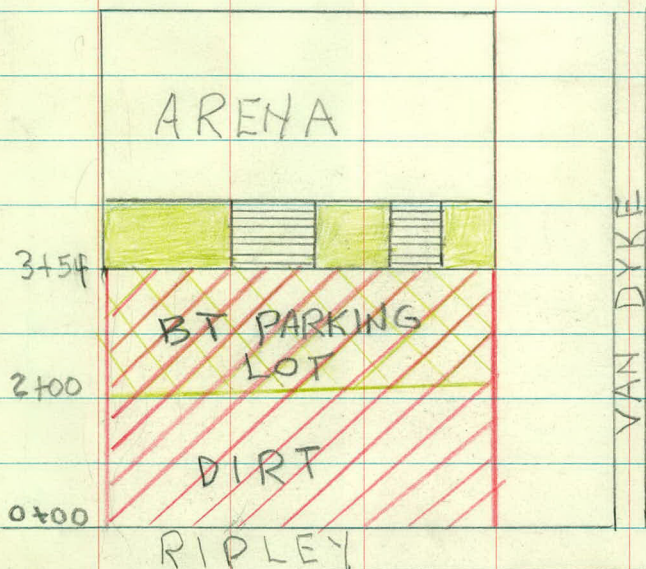
MH { 53.8 Inv 25' Lt 48" SCP
 { 54.20 ^{36"} { Inv to South 21' Lt
 { 54.04 { Inv 33' Rt

KP
DS
LPD
CM

5 MAY 1970
SUNNY 45°

ALDRICH ARENA

X- SECTIONS



STA + K - ELEV

BM 1.29 967.33

(966.04)

0+00 = N. CURB RIPLEY ST ALONG
W. EDGE OF ARENA (EXTENDED.)

0-01 = N. GUTTER LINE RIPLEY

✓

0+00 = TOP OF CURB

✓

LT

E

5 MAY 1970

RT

TOP HYD AT RIPLEY AND VAN DYKE

61.4	61.7	61.3	61.1	60.8	60.7	60.6	60.7
5.66	5.63	5.97	6.21	6.45	6.57	6.74	6.63
175	150	100	50		50	76	100
CB						CB	

12.2
5.10
200

61.8 61.5 62.1
5.50 5.75 6.23
200 189 150
CB

62.0	61.8	61.6	61.3	61.2	61.2	61.5	62.0
5.25	5.50	5.68	5.99	6.11	6.12	5.76	5.0
150	100	50		50	100	150	200

12.4
4.73
200

STA	+	π	-	ELEV.
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		967.33		
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0+50				
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✓				
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1+00				
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✓				
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1+50				
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✓				
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L_T

Σ

5/11/1970 R_T

^{63.1}	^{62.2}	^{61.7}	^{61.8}	^{61.5}	^{61.5}	^{61.5}	^{61.8}	^{62.4}
4.2	5.1	5.6	5.5	5.8	5.8	5.8	5.5	4.9
200	150	100	50		50	100	150	200

^{63.4}	^{62.3}	^{62.0}	^{62.0}	^{62.0}	^{61.8}	^{61.9}	^{62.4}	^{62.3}
3.9	5.0	5.3	5.3	5.3	5.5	5.4	4.9	5.0
200	150	100	50		50	100	150	200

^{63.2}	^{62.3}	^{61.9}	^{62.0}	^{61.9}	^{62.1}	^{62.3}	^{62.1}	^{62.2}
4.1	5.0	5.4	5.3	5.4	5.2	5.0	5.2	5.1
200	150	100	50		50	100	150	200

STA + T. - ELEV.

967.33

2+00 = S. EDGE BT PARKING LOT

✓

3

+50 = ROW OF LITE STANDARDS

✓

3+00

✓

LT

5 MAY 1970

RT

$b_{2.5}$	$b_{2.3}$	$b_{2.1}$	$b_{2.0}$	$b_{1.8}$	$b_{1.7}$	$b_{1.7}$	$b_{2.0}$	$b_{2.1}$
3.8	5.0	5.2	5.3	5.5	5.6	5.6	5.3	5.2
200	150	100	50		50	100	150	200

$b_{4.7}$	$b_{3.4}$	$b_{3.0}$	$b_{3.2}$	$b_{3.1}$	$b_{2.8}$	$b_{2.8}$	$b_{3.1}$	$b_{3.5}$
2.6	3.7	4.3	4.1	4.2	4.5	4.5	4.2	3.8
200	150	100	50		50	100	150	200

$b_{5.1}$	$b_{3.9}$	$b_{3.9}$	$b_{4.0}$	$b_{4.1}$	$b_{4.2}$	$b_{4.3}$	$b_{4.4}$	$b_{4.4}$
2.2	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.9
200	150	100	50		50	100	150	200

STA + π - ELEV

967.33

3+54 = N. EDGE BT PARKING LOT

TP 6.08 968.30 5.11 962.22

BM 0.93 967.37 (967.43)

LT

E

5 MAY 1970

RT

15.1	13.9	14.5	14.7	15.0	15.1	15.1	15.1	15.1
2.2	3.4	2.8	2.6	2.3	2.2	2.2	2.2	2.2
200	150	100	50		50	100	150	200

TOP MH "S"

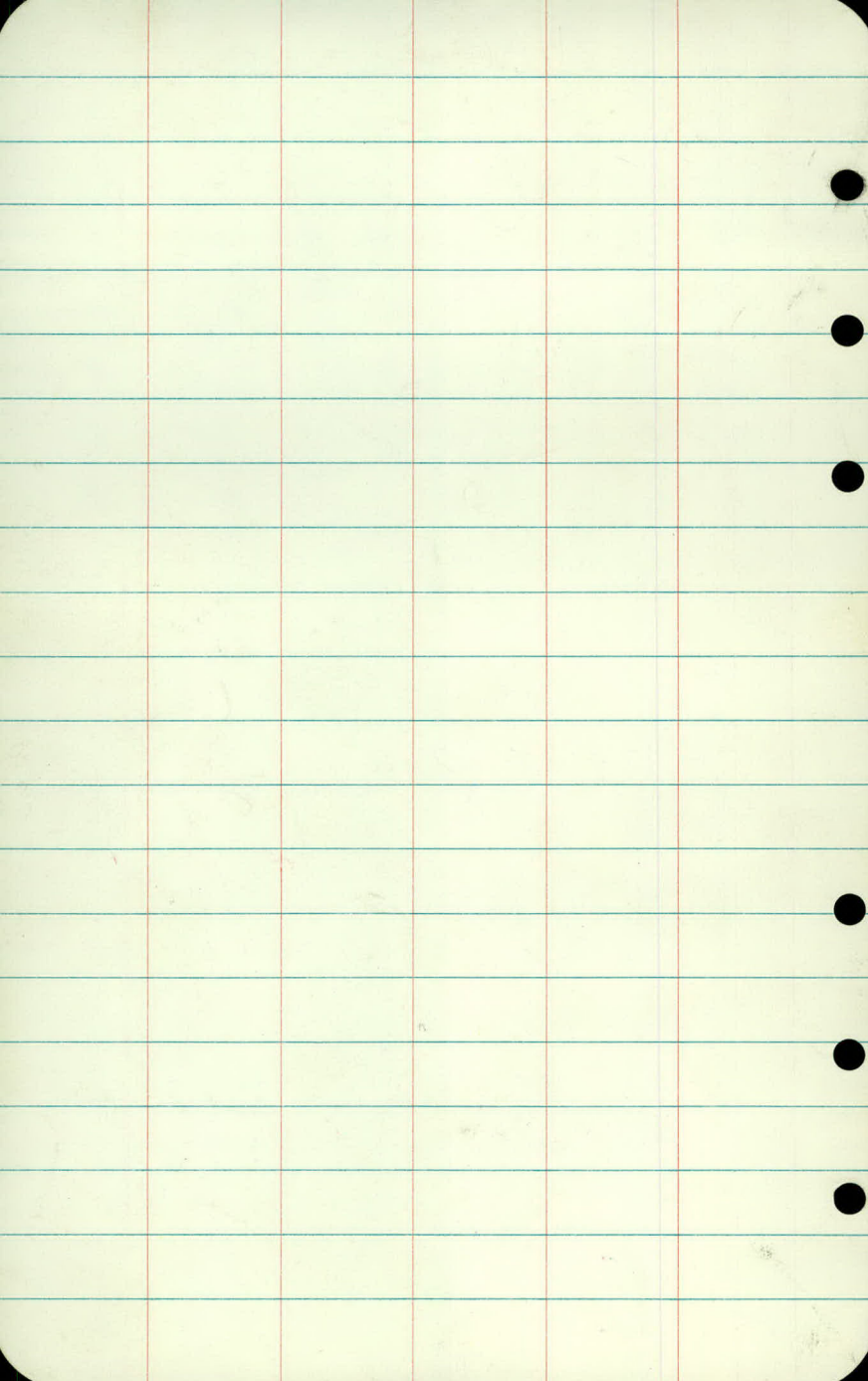
S.W COR METAL STD. S.E COR RIPLEY

CB 76' RT 0-01

FL TO TOP = 4.02

CB 189' RT 0-01

FL TO TOP = 6.25

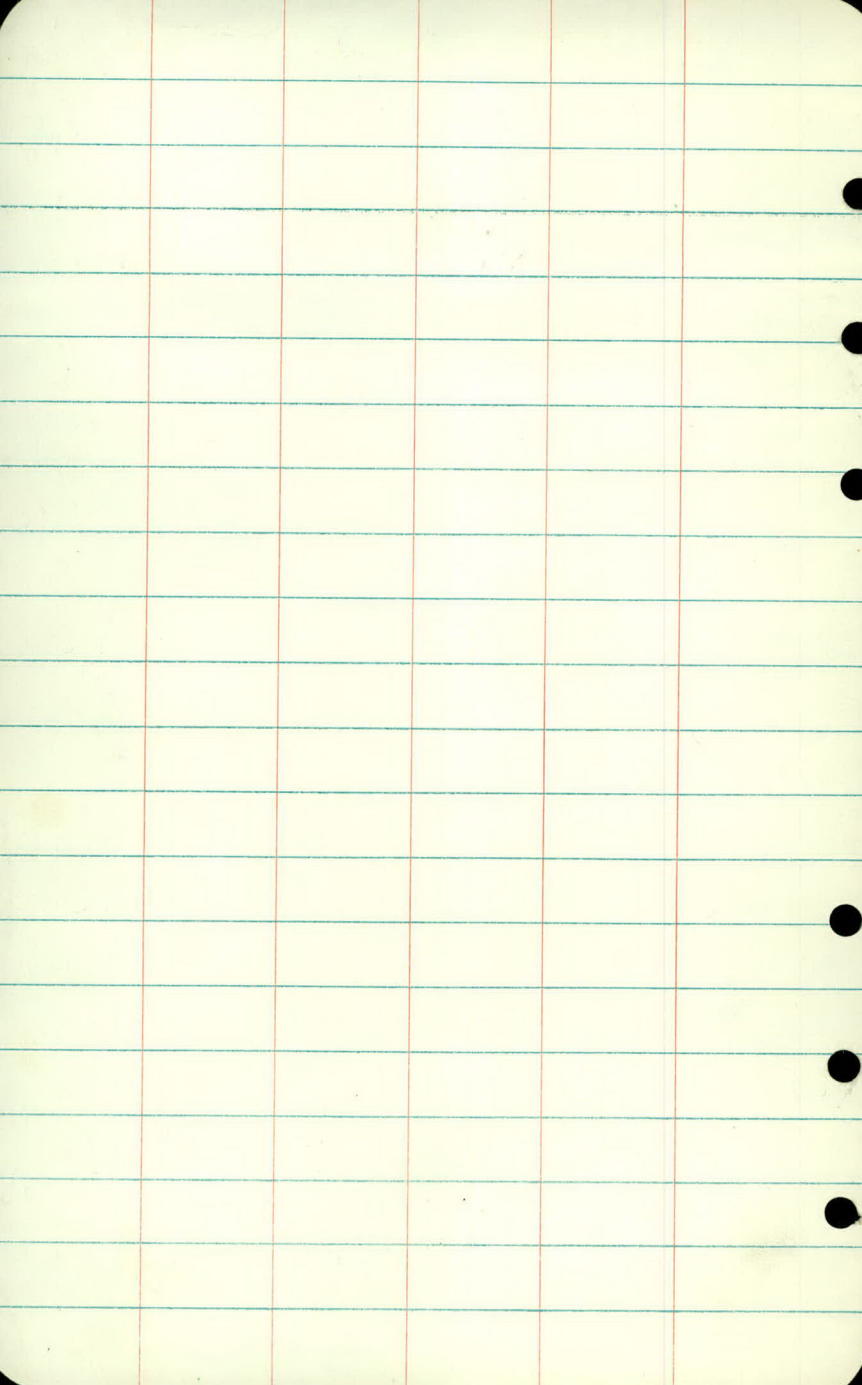


Aldrich Arena

Parking Lot

Grid Elevations

31 Pages





0+00 = White Deer Ave

4+00

5+00

6+00

7+00

8+00

8+39.06

RIPPLEY

VANDYKE

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

15+50

STA	+	π	-	Elev
BM	1.71	967.73 ⁸³ 4.79		966.02 1.71 966.12

8+39.06 STATION ALONG RIPLEY

8+00

7+50

7+00

6+50

6+00

5+50

5+00

TP	6.60	969.54 ⁶⁴ 4.79	3.04 962.84 6.60
----	------	------------------------------	-----------------------------------

STATION along Vandyke

3

0+00

0+50

1+00

1+50

2+00

Top Hyd NW cor Vandyke & Ripley

Sept 9 '71

PK
LPB
RR
GM

61.4 0.36	66.9 0.90	66.9 0.9	66.9 1.0	66.3 1.5
66.6 1.23	61.9 2.91	63.1 4.4	61.2 4.6	61.2 3.6
65.7 2.60	64.0 3.8	63.8 4.0	63.3 4.5	63.4 4.4
63.9 3.90	63.7 4.6	63.7 4.6	62.0 4.8	62.0 4.8
62.6 5.23	62.1 5.1	62.9 4.9	62.5 5.3	62.3 5.5
61.7 6.07	62.1 5.7	62.4 5.4	62.1 5.7	62.1 5.7
61.1 6.65	61.5 6.3	61.8 6.0	62.2 5.6	62.3 5.5
61.0 6.87	61.5 6.3	61.8 6.0	62.2 5.6	62.3 5.5

STA	+	$\bar{A}$	-	Elev
-----	---	-----------	---	------

		$\overset{\cdot}{64}$ 969.54 5.39		
--	--	--	--	--

8+39.06				
---------	--	--	--	--

8+00				
------	--	--	--	--

7+50				
------	--	--	--	--

7+00				
------	--	--	--	--

6+50				
------	--	--	--	--

6+00				
------	--	--	--	--

5+50				
------	--	--	--	--

5+00				
------	--	--	--	--

TP	2.95	$\overset{\cdot}{20}$ 967.10	5.39	$\overset{\cdot}{25}$ 964.15 2.95
----	------	--	------	--

2+50

3+00

3+50

4+00

Sept 9

65.9

3.7

65.6

4.0

65.2

4.4

65.0

4.6

69.54

5.1

64.44

64.3

5.3

64.5

5.1

64.5

5.1

64.5

5.1

64.0

5.6

64.3

5.3

64.7

4.9

67.3

2.3

63.6

6.0

64.3

5.3

64.7

4.9

68.5

1.1

63.0

6.6

64.3

5.3

64.9

4.7

68.1

1.5

62.8

6.8

64.2

5.4

64.9

4.7

68.16

1.48

steps

62.6

7.0

64.2

5.4

65.0

4.6

68.1

1.5

62.3

7.3

63.8

5.8

64.9

4.7

68.78

0.86

steps

STA	+	π	-	Elev
-----	---	-------	---	------

		²⁰ 967.18		
--	--	------------------------------------	--	--

4+50				
------	--	--	--	--

4+00				
------	--	--	--	--

3+50				
------	--	--	--	--

3+00				
------	--	--	--	--

2+50				
------	--	--	--	--

2+00				
------	--	--	--	--

1+50				
------	--	--	--	--

1+00				
------	--	--	--	--

TP	4.92	³² 970.22	1.80	⁴⁰ 965.30 4.92
----	------	------------------------------------	------	--

0+00

+50

1+00

+50

2+00

Sept 9

61.14

6.06

61.1

5.8

61.1

5.5

62.3

4.9

62.3

4.9

61.31

5.89

61.6

5.7

62.0

5.2

62.0

5.2

62.1

5.1

61.53

5.67

61.7

5.5

61.7

5.5

62.1

5.1

62.3

4.9

61.72

5.48

62.0

5.2

62.1

5.1

62.1

5.1

62.1

5.1

61.94

5.26

62.6

4.6

62.0

4.2

62.0

4.2

62.9

4.3

62.46

4.24

62.7

3.5

62.9

3.3

62.9

3.3

62.3

2.9

62.73

2.17

62.1

2.1

62.5

1.7

62.4

1.8

62.7

1.5

62.72

0.88

62.5

0.7

62.6

0.6

62.5

0.7

62.6

0.6

STA	+	$\bar{A}$	-	Elev
-----	---	-----------	---	------

		$\begin{array}{r} \cdot 32 \\ 970.22 \\ 47 \\ \hline 71 \end{array}$		
--	--	--	--	--

4+50				
------	--	--	--	--

4+00				
------	--	--	--	--

3+50				
------	--	--	--	--

3+00		$\begin{array}{r} - 4 \\ 17 \\ 6 \end{array}$		
------	--	---	--	--

2+50				
------	--	--	--	--

2+00				
------	--	--	--	--

1+50				
------	--	--	--	--

1+00				
------	--	--	--	--

BM			$+49$	$\begin{array}{r} \cdot 81 \\ 970.71 \\ \hline 970.81 \end{array}$
----	--	--	-------	--

2+50

3+00

3+50

4+00

4+50

Sept 9

62.4

7.9

63.0

6.5

64.9

5.4

68.0

2.3

62.8

7.5

63.8

6.5

64.8

5.5

67.6

2.7

62.9

7.4

63.6

6.7

64.4

5.9

64.4

3.9

67.4

2.9

63.0

7.3

63.6

6.8

63.7

6.6

64.3

6.0

64.6

5.7

63.1

6.6

64.2

6.1

64.2

6.1

64.5

5.8

65.1

5.2

64.9

5.4

63.7

4.6

65.9

4.4

66.1

4.2

66.4

3.9

66.7

3.6

67.1

3.2

67.5

2.8

67.8

2.5

68.1

2.2

69.6

2.7

68.4

1.9

69.2

1.1

69.6

0.7

69.7

0.6

Bench Levels Rerun Sept 10 Sound Hyd
 .10' Low PK

STA	+	π	-	Elev
BM	1.06	973.87		972.81
		9.72		1.06
TP	3.01	967.16	9.72	964.15
			3.01	
8+39.06				
8+00				
7+50				
7+00				
6+50				
6+00				
5+50				
5+00				

6+50

7+00

7+50

8+00

8+50

Sept 9

Top NW cor Top step west ENT on North
Side Aldrich ARENA

63.2

63.0

62.8

62.6

62.1

4.0

4.2

4.4

4.6

5.1

62.8

62.4

62.1

61.7

61.4

4.4

4.8

5.1

5.5

5.8

63.1

63.3

62.5

62.0

61.6

2.1

3.9

4.7

5.2

5.6

66.4

63.9

63.1

62.3

61.6

0.8

3.3

4.1

4.9

5.6

67.0

64.2

63.2

62.5

61.1

0.2

3.0

4.0

4.7

5.5

66.9

64.3

63.3

62.6

62.1

0.25

2.9

3.9

4.6

5.1

step

67.2

64.4

63.6

63.0

62.4

0.0

2.8

3.6

4.2

4.8

67.4

64.4

63.6

63.0

62.5

10.30

2.8

3.6

4.2

4.7

step

STA	+	Δ	-	Elev
-----	---	----------	---	------

		967.16 8.06		
--	--	----------------	--	--

8+39.06				
---------	--	--	--	--

8+00				
------	--	--	--	--

7+50				
------	--	--	--	--

7+00				
------	--	--	--	--

6+50				
------	--	--	--	--

TP	3.47	962.57	8.06	959.10 3.47
----	------	--------	------	----------------

9+00

9+50

10+00

10+50

11+00

Sept 9

61.1

5.5

61.2

6.0

61.1

6.1

60.6

6.6

59.9

7.3

60.6

6.6

60.6

6.6

59.9

7.3

59.3

7.9

58.9

8.4

60.6

6.6

60.2

7.0

59.8

7.4

59.4

7.8

59.2

8.0

60.6

6.6

60.1

7.1

59.9

7.3

59.6

7.6

59.1

8.1

60.7

6.5

60.1

7.1

60.0

7.2

59.5

7.7

59.1

8.1

STA	+	π	-	Elev.
-----	---	-------	---	-------

		962.57		
--	--	--------	--	--

B+39.06				
---------	--	--	--	--

B+00				
------	--	--	--	--

7+50				
------	--	--	--	--

7+00				
------	--	--	--	--

6+50				
------	--	--	--	--

11+50

12+00

12+50

13+00

13+50

Sept 9

59.3

3.3

58.6

4.0

58.0

4.6

57.2

5.4

56.6

6.0

57.9

4.7

57.4

5.0

57.1

5.5

56.7

5.9

56.0

6.6

58.4

4.2

58.0

4.6

57.1

4.9

57.3

5.3

56.9

5.7

58.5

4.1

58.1

4.5

57.8

4.8

57.5

5.1

57.3

5.3

58.3

4.3

58.1

4.5

57.9

4.7

57.5

5.1

57.3

5.3

STA	+	π	-	Elev
-----	---	-------	---	------

		962.57		
		2.02		

8+39.06				
---------	--	--	--	--

8+00				
------	--	--	--	--

7+50				
------	--	--	--	--

7+00				
------	--	--	--	--

6+50				
------	--	--	--	--

TP	4.73	965.28	2.02	960.55
		4.73		

TP	9.61	973.83	1.06	964.22
		1.019		

BM	1.67	974.48	1.01	972.82
				972.81
				1.67

14+00

14+50

15+00

Sept 9

55.9
6.7

55.5
7.1

55.0
7.6

55.9
6.7

55.1
7.5

54.6
8.0

56.5
6.1

56.0
6.6

55.5
7.1

56.9
5.7

56.7
5.9

56.0
6.6

56.7
5.9

56.5
6.1

56.0
6.6

Top NW cor Top step West ENT No Side Aldrich Arong

STA + Δ - Elev

⁹
974.48

4+50

4+00

3+50

3+00

2+50

2+00

1+50

74.10
6.7

7.87

1+00

BM

1.67 972.8²
972.81

Sept 9 11

6+50

7+00

7+50

8+00

8+50

6.6
6.9

6.4
10.3

6.2
11.0

6.5
11.3

6.2
12.0

6.5
6.0

6.4
10.3

6.3
10.9

6.2
11.3

6.2
11.8

6.9
6.6

6.4
10.3

6.2
10.9

6.3
11.2

6.2
11.3

10.4
6.1

10.6
6.9

10.8
6.1

11.1
6.4

11.0
6.5

9.9
6.6

9.7
6.8

10.3
6.2

10.6
6.9

11.3
6.2

8.7
6.8

7.3
6.2

9.0
6.5

9.2
6.3

9.4
6.1

7.5
6.0

4.3
10.2

7.4
6.1

8.0
6.5

8.2
6.3

6.2
6.3

2.0
12.5

6.2
6.3

6.6
6.9

6.7
6.8

STA	+	π	-	Elev
BM	1.80	974.61 8.10		972.81 1.80

3+50

3+00

2+50

2+00

1+50

1+00

TIP	11.31	977.82	8.10	966.51 11.31
-----	-------	--------	------	-----------------

BM			7.01	970.81	970.81
----	--	--	------	--------	--------

Sept 10 71

12

5+00

5+50

6+00

PK
LPP
RR
671

Top NW cor Top step west ENE No side Aldrich Arena

61.31	61.37	61.4
7.30	7.24	7.2

64.1	64.9	64.3
9.8	9.7	10.1

65.3	65.0	63.9
9.3	9.6	10.7

66.3	66.2	66.3
8.3	8.4	8.3

68.2	67.7	67.8
6.4	6.9	6.8

69.8	69.4	68.7
4.8	5.2	5.7

STA	+	$\bar{T}$	-	Elev
BM	2.62	973.43		970.81

X sections So Side Aldrich Arena

8+00

73.43
8.9
84.53

7+50

7+00

+10

BIZ WALK

6+50

6+00

Sept 10 '71

Top 9th Step West ENT So Side Aldrich Arena

X-SECTIONS South Side Aldrich Arena

$$\begin{array}{r}
 3+50 \\
 \cdot 64.5 \\
 8.9 \\
 \hline
 50 \\
 B.7
 \end{array}$$

$$\begin{array}{r}
 3+75 \\
 \cdot 64.5 \quad \cdot 64.5 \quad \cdot 64.6 \quad \cdot 44.00 \\
 8.9 \quad 8.9 \quad 8.8 \quad 8.8 \\
 \hline
 77 \quad 79 \quad 98 \quad 4400 \\
 \text{Edge B.7}
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.1 \\
 8.7 \\
 \hline
 50 \\
 B.7
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.1 \quad \cdot 65.1 \quad \cdot 67.3 \rightarrow Z \\
 8.7 \quad 8.3 \quad 6.1 \\
 \hline
 76 \quad 78 \quad 4400 \\
 \text{Edge B.7}
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.1 \\
 8.7 \\
 \hline
 50 \\
 B.7
 \end{array}$$

$$\begin{array}{r}
 \cdot 65.0 \quad \cdot 65.2 \quad \cdot 68.3 \\
 8.4 \quad 8.2 \quad 5.1 \\
 \hline
 77 \quad 79 \quad 4400 \\
 \text{Edge B.7}
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.1 \\
 8.7 \\
 \hline
 50 \\
 B.7
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.8 \quad \cdot 65.3 \quad \cdot 68.4 \\
 8.6 \quad 8.1 \quad 5.0 \\
 \hline
 76 \quad 80 \quad 4400 \\
 \text{Edge B.7} \quad B.7
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.9 \\
 8.5 \\
 \hline
 50 \\
 B.7
 \end{array}$$

$$\begin{array}{r}
 \cdot 65.0 \quad \cdot 65.3 \quad \cdot 68.0 \\
 8.4 \quad 8.1 \quad 5.4 \\
 \hline
 76 \quad 79 \quad 4400 \\
 \text{Edge B.7}
 \end{array}$$

$$\begin{array}{r}
 \cdot 64.9 \\
 8.5 \\
 \hline
 50 \\
 B.7
 \end{array}$$

$$\begin{array}{r}
 \cdot 65.1 \quad \cdot 65.33 \quad \cdot 65.48 \quad \cdot 66.03 \quad \cdot 66.16 \quad \cdot 66.75 \\
 8.3 \quad 8.10 \quad 7.95 \quad 7.40 \quad 7.21 \quad 6.60 \\
 \hline
 77 \quad 77 \quad 81 \quad 81 \quad 87 \quad 87 \\
 \text{Edge} \quad \text{Steps} \quad \text{Steps} \quad \text{Steps} \quad \text{Steps}
 \end{array}$$

STA	+	$\bar{A}$	-	Elev
-----	---	-----------	---	------

		973.43		
--	--	--------	--	--

		9.11		
--	--	------	--	--

5+50				
------	--	--	--	--

5+00				
------	--	--	--	--

4+50				
------	--	--	--	--

4+00				
------	--	--	--	--

3+50				
------	--	--	--	--

TP	10.61	974.93	9.11	964.32
----	-------	--------	------	--------

				10.61
--	--	--	--	-------

Sept 10 '71

14

X sections SO Side Aldrich Arena

3450

65.0
8.4
50
Bit

64.8
8.6
50
Bit

64.8
8.6
50
Bit

64.8
8.6
50
Bit

64.4
9.0
50
Bit

3475

65.1
8.3
77
Edge Bit

65.1
8.3
77
Edge Bit

65.1
8.3
77
Edge Bit

64.9
8.5
77
Edge Bit

64.8
8.6
77
Edge Bit

65.1
8.3
78

65.49

7.94
82
Steps

65.3

8.1
78

65.1

8.3
78

65.0

8.4
78

4400

66.1
5.3
4400

66.15
7.28
82
Steps

66.24
7.19
87
Steps

66.82
66.1
87
Steps

66.90
66.3
92
Steps

67.9
5.5
4400

67.5
5.9
4400

66.3
7.1
400

STA + 1 - Elev

974.93

X-sections West Side Aldrich Aveng

STATIONS ALONG VANDYKE

4+00

4+50

5+00

up Ramp

+25

Down Ramp

+50

up RAMP

Sept 10 '77

X - sections West Side Aldrich Arena

STATIONS ALONG Ripley st



$$\begin{array}{r} 3400 \\ 64.37 \\ 10.61 \\ +00 \\ \hline \text{B.T.} \end{array}$$

$$\begin{array}{r} 3+25 \\ 64.1 \\ 10.2 \\ 24 \\ \hline \text{Edge B.T.} \end{array}$$

$$\begin{array}{r} 3+50 \\ 66.3 \\ 8.6 \\ 50 \\ \hline \end{array}$$

$$\begin{array}{r} 64.6 \\ 10.3 \\ \hline +00 \\ \hline \text{B.T.} \end{array}$$

$$\begin{array}{r} 65.0 \\ 9.9 \\ 24 \\ \hline \text{Edge B.T.} \end{array}$$

$$\begin{array}{r} 67.2 \\ 7.7 \\ 50 \\ \hline \end{array}$$

$$\begin{array}{r} 64.6 \\ 10.3 \\ +00 \\ \hline \text{B.T.} \end{array}$$

$$\begin{array}{r} 65.1 \\ 9.8 \\ 25 \\ \hline \text{Edge B.T.} \end{array}$$

$$\begin{array}{r} 67.0 \\ 7.73 \\ 50 \\ \hline \text{CONC} \end{array}$$

$$\begin{array}{r} 64.8 \\ 10.1 \\ +00 \\ \hline \text{B.T.} \end{array}$$

$$\begin{array}{r} 65.0 \\ 9.9 \\ 25 \\ \hline \text{Edge B.T.} \end{array}$$

$$\begin{array}{r} 67.51 \\ 12.42 \\ 50 \\ \hline \text{CONC} \end{array}$$

$$\begin{array}{r} 64.9 \\ 10.0 \\ 00 \\ \hline \text{B.T.} \end{array}$$

$$\begin{array}{r} 65.0 \\ 9.9 \\ 25 \\ \hline \text{Edge B.T.} \end{array}$$

$$\begin{array}{r} 67.25 \\ 7.68 \\ 50 \\ \hline \text{CONC} \end{array}$$

STA	+	T	-	Elev
-----	---	---	---	------

		974.93		
--	--	--------	--	--

		9.92		
--	--	------	--	--

X-SECTIONS ALONG West side

STATIONS ALONG VANDYKE

6+00

+50

TP	8.14	973.15	9.92	965.01
----	------	--------	------	--------

8.14

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X-Sections west side Aldrich

STATIONS ALONG RIPLEY

3+00

64.6
10.4
+00
B/C

3+25

65.1
9.8
24
Edge B/C

65.2
9.7
25

3+50

61.2
7.7
50

4
N

64.1

10.8
+00
B/C

64.3

10.6
23
Edge B/C

64.7

10.2
24

66.5

8.4
50

STA	+	π	-	Elev
-----	---	-------	---	------

		973.15		
--	--	--------	--	--

X-sections No Side Aldrich Arena

STATION ALONG Ripley

8+00

7+50

7+00

6+50

6+00

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X-SECTIONS No side Aldrich Arena

STATIONS ALONG VANDYKE

7+00	6+75	6+50	6+25
62.4	62.9	62.9	62.3
10.8	10.3	10.3	9.9
+00	50	46	43
B.T.	B.T.	Edge B.T.	

~~7~~ 7
 63.3
 9.9
 +00
 B.T.

64.1
 9.1
 52
 Edge B.T.

65.0
 8.2
 50

67.1
 5.8
 25

64.0
 9.2
 +00
 B.T.

64.5
 8.7
 61
 Edge B.T.

64.83
 8.32
 61
 CONC Walk

65.18
 7.97
 55
 CONC Walk

10.8
 2.4
 25

64.2
 9.0
 +00
 B.T.

64.4
 8.8
 68
 Edge B.T.

64.81
 8.39
 67
 CONC Walk

64.88
 8.27
 63
 CONC CURB

65.50
 7.65
 62
 CONC CURB

64.3
 8.9
 72

64.5
 8.7
 72

64.76
 8.39
 72
 CONC Walk

64.98
 8.17
 68
 Steps

65.52
 7.63
 68
 Steps

65.60
 7.55
 63
 Steps

66.21
 6.94
 63
 Steps

66.27
 6.88
 58
 Steps

66.84
 6.81
 58
 Steps

STA	+	$\bar{A}$	-	Elev
-----	---	-----------	---	------

		973.15		
--	--	--------	--	--

5+50				
------	--	--	--	--

5+00				
------	--	--	--	--

4+50				
------	--	--	--	--

4+1				
-----	--	--	--	--

		END CONC WALK		
--	--	---------------	--	--

4+00				
------	--	--	--	--

3+50				
------	--	--	--	--

BM				
----	--	--	--	--

	0.34			
--	------	--	--	--

		973.15		
--	--	--------	--	--

			0.34	
--	--	--	------	--

				972.81
--	--	--	--	--------

				(972.81)
--	--	--	--	----------

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X-Sections Along No Side Aldrich

STATIONS ALONG VANDYKE

7400			6450	6425
64.4	64.6	64.8	65.01	65.62
8.8	8.6	8.27	8.08	7.53
+00	73	73	68	50
Bit		concrwalk	CURB	



64.4	64.5	64.8	64.98	65.50	65.61	66.17	66.21	66.83	66.80
8.8	8.7	8.34	8.17	7.65	7.54	6.98	6.94	6.32	6.35
+00	73	73	68	68	63	63	58	58	53
Bit	Edge Bit	concrwalk		steps	steps	steps	steps	steps	steps

64.3	64.5	64.72	64.85	65.48	67.8	71.0
8.9	8.7	8.43	8.30	7.67	5.4	2.2
+00	74	73	69	69	+50	+25
Bit	Edge Bit	concrwalk		CURB		

64.3	64.5	64.74	64.90	65.52	68.0	71.2
8.9	8.7	8.41	8.25	7.63	5.2	2.0
+00	74	74	69	68	+50	+25
Bit	Edge Bit	concrwalk		CURB		

64.4	64.6	64.9	67.9	71.1
8.8	8.6	8.3	5.8	2.1
+00	74	73	+50	+25
Bit	Edge Bit			

64.3	64.4	64.7	66.6	67.3
8.9	8.8	8.5	6.6	5.9
+00	74	73	+50	+25
Bit	Edge Bit			

Top NW cor Top Sizer West ENL No side Aldrich Avenue

STA + $\nearrow$ - Elev

973.15

³⁹

TP 2.60 975.36 0.39 972.76

^{2.60}

X-SECTIONS EAST side Aldrich ARENA

STATION ALONG VANDYKE

4+00

+50

5+00

No. Edge So Ramp

+50

$\approx$ North Ramp

6+00

X-Sections EAST side Aldrich ARENA

STATIONS ALONG RIPLEY



8+39.06

8+00

7+75

7+50

$$\begin{array}{r} 65.1 \\ 10.3 \\ \hline +39 \end{array}$$

$$\begin{array}{r} 64.4 \\ 11.0 \\ \hline +09 \end{array}$$

$$\begin{array}{r} 64.5 \\ 10.9 \\ \hline +08 \end{array}$$

$$\begin{array}{r} 64.6 \\ 10.8 \\ \hline +00 \end{array}$$

$$\begin{array}{r} 66.0 \\ 9.4 \\ \hline +75 \end{array}$$

$$\begin{array}{r} 66.0 \\ 9.4 \\ \hline +75 \end{array}$$

Edge Bit

$$\begin{array}{r} 64.8 \\ 10.6 \\ \hline +39 \\ \text{Bit} \end{array}$$

$$\begin{array}{r} 64.3 \\ 11.1 \\ \hline +09 \\ \text{Edge Bit} \end{array}$$

$$\begin{array}{r} 64.3 \\ 11.1 \\ \hline +6 \end{array}$$

$$\begin{array}{r} 64.7 \\ 10.7 \\ \hline +00 \end{array}$$

$$\begin{array}{r} 66.6 \\ 8.8 \\ \hline +75 \end{array}$$

$$\begin{array}{r} 68.7 \\ 6.7 \\ \hline +50 \end{array}$$

$$\begin{array}{r} 64.3 \\ 11.1 \\ \hline +39 \\ \text{Bit} \end{array}$$

$$\begin{array}{r} 64.0 \\ 11.4 \\ \hline +10 \\ \text{Edge Bit} \end{array}$$

$$\begin{array}{r} 64.04 \\ 11.32 \\ \hline 9 \\ \text{CONC} \end{array}$$

$$\begin{array}{r} 64.72 \\ 10.64 \\ \hline +00 \\ \text{CONC} \end{array}$$

$$\begin{array}{r} 66.66 \\ 8.70 \\ \hline +75 \end{array}$$

$$\begin{array}{r} 68.70 \\ 8.66 \\ \hline +50 \end{array}$$

$$\begin{array}{r} 63.9 \\ 11.5 \\ \hline 39 \\ \text{Bit} \end{array}$$

$$\begin{array}{r} 64.0 \\ 11.4 \\ \hline +9 \\ \text{Edge Bit} \end{array}$$

$$\begin{array}{r} 64.01 \\ 11.35 \\ \hline 9 \\ \text{CONC} \end{array}$$

$$\begin{array}{r} 64.69 \\ 10.67 \\ \hline +00 \\ \text{CONC} \end{array}$$

$$\begin{array}{r} 66.71 \\ 8.65 \\ \hline 25 \\ \text{CONC} \end{array}$$

$$\begin{array}{r} 68.73 \\ 6.63 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 63.7 \\ 11.7 \\ \hline 39 \\ \text{Bit} \end{array}$$

$$\begin{array}{r} 63.6 \\ 11.8 \\ \hline 10 \\ \text{Edge Bit} \end{array}$$

$$\begin{array}{r} 63.1 \\ 11.7 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 64.2 \\ 11.2 \\ \hline +00 \end{array}$$

$$\begin{array}{r} 66.1 \\ 9.3 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 68.2 \\ 7.2 \\ \hline 50 \end{array}$$

STA	+	T	-	Elev
-----	---	---	---	------

		975.36		
--	--	--------	--	--

		2.75		
--	--	------	--	--

X - sections EAST SIDE ARENA

STATIONS ALONG VANDYKE

6+50

TP	2.02	974.63	2.75	972.61
----	------	--------	------	--------

BM			3.81	970.82 (970.81)
----	--	--	------	-----------------

X- SECTIONS EAST side ARENA

STATIONS ALONG RIPLEY

	8+39.06		8+00	7+75	7+50
N	63.2	62.7	62.8	63.3	63.7
↓	12.2	12.7	12.6	12.1	11.7
	+39	10	+00	25	50
	BTC	BTC	BTC	BTC	

Top SW COR 9⁵⁴ STOP West END So Side Aldrich Arena

$$\begin{array}{r}
 974.63 \\
 - 9.54 \\
 \hline
 965.09 \\
 + 2.48 \\
 \hline
 967.57 \\
 + 6.55 \\
 \hline
 961.02
 \end{array}$$

$$\begin{array}{r}
 967.73 \\
 + 6.80 \\
 \hline
 960.93
 \end{array}$$

$$\begin{array}{r}
 967.57 \\
 + 1.47 \\
 \hline
 610
 \end{array}$$

STA + T - Elev

DITCH X sections West side VANDYKE

BM 1.71 974.52 (972.81)

TP 1.43 965.76 10.19 964.33

STATIONS ALONG VANDYKE

7+00

+50

8+00

+50

+89

± ENT

Sept 10 '71

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Ditch X Sections West side VAN DYKE

Top NW COR Top Step West ENT North side Aldrich ARENA

STATIONS ALONG RIPLEY

8+39.06

63.1
2.7
39
B.C

62.5
3.3
20
B.C

62.4
3.4
11
B.C

8+40
62.5
3.3
+100
B.C

7+75
62.9
2.9
+75

1 H

62.9
2.9
39
B.C

62.2
3.6
19
Edge B.C

61.8 62.0 62.1
4.0 3.8 3.7
13 6 50
Edge B.C B.C

62.2
3.6
75
B.C

62.6
3.2
39
B.C

61.8
4.0
19
Edge B.C

61.4 61.4 61.7 61.8
4.4 4.4 4.1 4.0
17 11 7 50
Edge B.C B.C

61.9
3.9
75

62.3
3.5
39
B.C

61.5
4.3
20
Edge B.C

61.0 61.2 61.5 61.5
4.8 4.6 4.3 4.3
16 11 3 100
Edge B.C

61.5
4.3
75

61.8
4.0
39
B.C

61.3
4.5
20
B.C

60.7
5.1
17
B.C

60.6
5.2
5
B.C

60.7
5.1
50

60.7
4.9
75

STA + π - Elev

965.76

STATIONS ALONG VANDYKE

9+00

+50

965.74

10+00

+50

+77

So. END 12" CMP

+92

ϕ ENT

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DITCH x-sections west side Wandyke

STATIONS ALONG Ripley

	8+39.06			8+00	7+75
N	61.8	61.1	60.8	60.7	60.1
	4.0	4.6	5.0	5.1	5.1
	39	22	16	4	0+00
	0.2	0.2	0.2	0.2	0.2

	61.3	61.0	59.9	60.5	60.6	60.1	60.3	60.3
	4.5	4.8	5.5	5.3	5.2	5.7	5.5	5.5
	39	22	16	5	00	96	92	75
	0.2	Edge Bit				Edge Bit		

	61.2	60.6	59.2	60.0	60.0	59.8	59.9	60.1
	4.6	5.2	6.6	3.8	5.8	6.0	5.9	5.7
	39	Edge Bit	15	8	+00	97	93	75
	0.2	22				Edge Bit	Bit	

	60.7	60.0	59.0	58.9	59.4	59.3	59.8	59.3	59.2	59.7
	5.1	5.8	6.8	6.9	6.4	6.5	7.0	6.5	6.6	6.1
	39	21	16	5	3	+00	95	93	91	75
	0.2	E.B.T					E.B.T			

	60.3	59.7	58.46	59.3	59.3	59.2	59.3
	5.5	6.1	7.30	6.5	6.5	6.6	6.5
	39	21	15	12	+00	92	75
	0.2	E.B.T	Flow Line			E.B.T	

	60.1	59.7		59.0	59.0	59.2
	5.1	6.1		6.8	6.8	6.6
	39	22		+00	92	75
	0.2	0.2		0.2	0.2	

STA + π - Elev

965.76

6.77

STATIONS ALONG VANDYKE

11+00

+08

N_o END 12" CMP

+50

12+00

TP 3.18 962.21 6.73 959.03

3.18

+50

13+00

S_o END 12" CMP

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DITCH X Sections West Side VANDYKE

STATIONS ALONG RIPLEY



8+39.06

60.0

5.8

39

B.C

59.6

6.2

21

B.C

8+00

58.9

6.4

0.0

B.C

7+75

59.0

6.8

75

B.C

59.9

5.9

39

B.C

59.4

6.4

22

E.B.C

57.95

7.81

16

FlowLine

58.5

7.3

13

58.7

7.1

+00

58.5

7.3

93

E.B.C

58.9

6.9

75

B.C

59.4

6.4

39

B.C

59.0

6.8

22

E.B.C

57.1

8.1

74

58.0

7.8

11

58.0

7.8

+00

58.1

7.7

93

E.B.C

58.6

7.2

75

B.C

58.8

7.0

39

B.C

58.4

7.4

23

E.B.C

58.0

7.8

78

57.0

8.8

13

57.5

8.3

6

57.6

8.2

+00

57.7

8.1

92

E.B.C

58.4

7.4

25

58.0

4.2

39

B.C

57.6

4.6

25

E.B.C

57.4

4.8

21

56.1

6.1

15

56.5

5.7

12

57.1

5.1

+00

57.2

5.0

93

E.B.C

57.9

4.3

75

B.C

57.2

5.0

39

B.C

57.1

5.1

24

E.B.C

56.8

5.4

21

55.36

6.85

16

FlowLine

56.2

6.0

14

56.9

5.3

+00

56.7

5.5

93

E.B.C

57.4

4.8

75

STA + π - Elev

962.21

STATION ALONG VANDYKE

13+15 $\neq$ ENT

+31

No END 12" CMP

+31

No END 12" CMP

+50

57

41

14+00

56.07

+50

55.47
51

15+00

24
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Ditch X-sections Along west side VANDYKE

STATION ALONG RIPLEY



8+39.06
57.0 57.0
5.2 5.2
39 25
B.C. B.C.

8+00 7+75
56.3 56.3 57.2
5.7 5.7 5.0
+00 94 +75
B.C. B.C. B.C.

56.8 56.6 56.5 55.00
5.4 5.6 5.7 7.21
39 25 22 17
B.C. E.B.C. Flowline

56.2 56.3 56.3 57.1
6.0 5.9 5.9 5.1
13 +00 94 75
E.B.C. B.C.

56.6 56.3 56.1 54.6
5.6 5.9 6.1 7.6
39 25 21 13
B.C. E.B.C.

56.0 56.1 56.9
6.2 6.1 5.3
+00 92 75
E.B.C. B.C.

56.0 55.8 55.5 54.4 54.1 56.0 55.9 56.3
6.2 6.4 6.7 7.8 7.5 6.2 6.3 5.9
39 25 22 15 9 +00 93 75
B.C. E.B.C. E.B.C. B.C.

55.5 55.2 56.1 53.6 54.5 56.1 55.3 56.1
6.7 7.0 7.1 8.6 7.7 7.1 6.9 6.1
39 24 21 13 8 +00 92 75
B.C. E.B.C. E.B.C.

54.9 54.6 54.5 53.3 54.5 54.7 54.8 55.2
7.3 7.7 7.7 8.9 7.7 7.5 7.4 7.0
39 24 22 14 2 +00 92 25
B.C. E.B.C.

STA + $\overline{A}$ - Elev

962.21

STATIONS ALONG VANDYKE

15+29 No Edge B.C. Parkins lot

X-Sections No END PARKING LOT

STATIONS ALONG RIPLEY

962.21

8+00

7+50

7+00

E. END 20" CMP

6+83

ENT

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STATIONS ALONG RIPLEY

8+39.06								7+75
N	54.8	54.3	54.1	52.44	53.1	54.1	54.1	54.1
	7.4	7.9	8.1	9.77	9.1	8.1	7.5	7.5
	37	21	20	Flow line West End 14' 6" DP	8	100	75	8.2

X Sections No END Parking Lot

STATIONS ALONG VANDYKE

15+00								16+00
54.6	53.8	53.8	53.5	53.8	52.4	54.1	54.5	54.5
7.6	8.4	8.4	8.7	8.4	9.8	8.1	7.7	7.7
100	132	35	37	39	51	59	79	79
						E.B.t	£	

55.6	54.9	55.0	52.6	53.6	54.6	54.9	
6.6	7.3	7.2	9.6	8.6	7.6	7.3	
100	29	37	56	61	66	81	
B.t	E.B.t				E.B.t	£	

56.1	55.6	55.7	54.2	53.2	54.1	55.3	55.5
6.1	6.6	6.5	8.0	9.0	8.1	6.9	6.7
100	28	39	52	55	57	55	81
B.t	E.B.t			Flow Line		E.B.t	£

56.2	55.8			55.6			55.6
6.0	6.4			6.6			6.6
100	30			65			81
B.t	D.t			B.t			£

STA + π - Elev

962.21

X Sections No END PARKING LOT

STATION ALONG RIPLEY

6+68

west END 28" CMP

6+50

X-Sections WEST END OF PARKING LOT

STATIONS ALONG VANDYKE

972.71

15+27

N. END B.T. PARKING LOT

15+00

14+50

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X Sections No END PARKING LOT

STATION ALONG VANDYKE

15+00



16+00

56.2	55.9	56.1	54.2	53.24	54.0	55.6	55.7
6.0	6.3	6.1	8.0	8.95	8.2	6.6	6.5
00	29	39	52	54	56	66	84
0.2	E.B.C			Flow Line		B.C	£

56.0	55.7	55.9	53.6	55.7	55.8
6.2	6.5	6.3	8.6	6.5	6.4
00	27	39	52	65	85
B.C	E.B.C			B.C	£

X-Sections WEST END of PARKING LOT

STATIONS ALONG RIPLEY

6+50

5+50



55.7	55.8	55.3	53.9
6.5	6.4	6.9	8.3
+50	28	Fence	12
B.C	E.B.C	19	Ditch

56.0	55.7	55.9	54.1
6.2	6.5	6.3	8.1
+50	25	17	7
B.C	E.B.C	Fence	Ditch

56.6	56.1	56.3	54.5
5.6	6.1	5.9	7.7
+50	25	18	6
B.C	E.B.C	Fence	Ditch

STA + π - Elev

962.21
1.69

X-Sections for West END PARKING Lot

STATIONS ALONG VANDYKE

14+00

13+50

13+00

12+50

12+00

TP 5.14 965.66 1.69 960.52
5.14

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X-sections for West END PARKING LOT STATIONS ALONG RIPLEY

	6+50						5+50
N ↓	56.8	56.2	56.5	54.8			
	5.4	6.0	5.7	7.9			
	<u>+50</u>	<u>24</u>	<u>17</u>	<u>10</u>			
	B.T.	E.B.T.	Fence	Ditch			
	57.3	56.5	56.1	55.2			
	4.9	5.7	6.1	7.0			
	<u>+50</u>	<u>25</u>	<u>18</u>	<u>70</u>			
	B.T.	E.B.T.	Fence	Ditch			
	57.5	57.2	56.7	55.4			
	4.7	5.0	5.5	6.8			
	<u>+50</u>	<u>25</u>	<u>17</u>	<u>6</u>			
	B.T.	E.B.T.	Fence	Ditch			
	57.9	57.6	57.5	55.8			
	4.3	4.6	4.7	6.4			
	<u>+50</u>	<u>25</u>	<u>17</u>	<u>4</u>			
	E.B.T.	E.B.T.	Fence	Ditch			
	58.2	57.8	57.8	56.2			
	4.0	4.4	4.4	6.6			
	<u>+50</u>	<u>24</u>	<u>18</u>	<u>5</u>			
	B.T.	E.B.T.	Fence	Ditch			

STA + T - Elev

965.66

X- Sections for West END of Lot

STATION ALONG VANDICE -

11+50

5827
5826

11+00

5906

10+50

10+00

9+50

Sept 10 '11

28

X-SECTIONS FOR WEST END OF LOT

STATION ALONG RIPLEY

6+50

$$\begin{array}{r} 58.3 \\ 7.4 \\ \hline 50 \end{array}$$

B.C

58.2

$$\begin{array}{r} 7.5 \\ \hline 27 \end{array}$$

E.B.C

58.1

$$\begin{array}{r} 7.6 \\ \hline 17 \end{array}$$

Fence

58.5

$$\begin{array}{r} 9.2 \\ \hline 6+00 \end{array}$$

Ditch

5+50

59.1

$$\begin{array}{r} 6.6 \\ \hline 50 \end{array}$$

Ditch

59.1

$$\begin{array}{r} 6.6 \\ \hline 28 \end{array}$$

E.B.C

59.0

$$\begin{array}{r} 6.7 \\ \hline 17 \end{array}$$

Fence

57.4

$$\begin{array}{r} 8.3 \\ \hline 4 \end{array}$$

Ditch

59.4

$$\begin{array}{r} 6.3 \\ \hline 50 \end{array}$$

B.C

59.5

$$\begin{array}{r} 6.2 \\ \hline 28 \end{array}$$

E.B.C

59.4

$$\begin{array}{r} 6.3 \\ \hline 17 \end{array}$$

Fence

57.9

$$\begin{array}{r} 7.8 \\ \hline 2 \end{array}$$

Ditch

59.9

$$\begin{array}{r} 5.8 \\ \hline 50 \end{array}$$

B.C

60.1

$$\begin{array}{r} 5.6 \\ \hline 28 \end{array}$$

E.B.C

60.1

$$\begin{array}{r} 5.6 \\ \hline 17 \end{array}$$

Fence

58.2

$$\begin{array}{r} 7.5 \\ \hline 6+00 \end{array}$$

Ditch

60.0

$$\begin{array}{r} 5.7 \\ \hline 50 \end{array}$$

B.C

60.5

$$\begin{array}{r} 5.2 \\ \hline 28 \end{array}$$

E.B.C

60.5

$$\begin{array}{r} 5.2 \\ \hline 18 \end{array}$$

Fence

58.3

$$\begin{array}{r} 7.4 \\ \hline 3 \end{array}$$

Ditch

STA	+	π	-	Elev
-----	---	-------	---	------

		965.66		
--	--	--------	--	--

X-sections for West END PARKING LOT

STATIONS ALONG VANDYKE

9+00

8+76

X-sections for North END PARKING LOT

STATIONS ALONG RIPLEY

6+18

6+00

TP	2.13	967.74	0.05	965.61
				2.13

Sept 10

29

X-Sections for West End Parking Lot

STATIONS ALONG RIPLEY

6+50

60.6
5.1
50

B.C

60.5

5.2
29

E.B.C

60.6

5.1
18
Fence

58.8

6.9
7

Ditch

5+50

61.0

4.7
50

B.C

61.1

4.6
24

E.B.C

61.3

4.4
17

Fence COR

X-Sections for North END PARKING LOT

STATIONS ALONG VANDYKE

8+50

61.9
5.8
50
B.C

61.3

4.4
74

E.B.C

61.3

4.4
77

Fence COR

9+50

62.0

3.7
50
B.C

61.3

4.4
72

E.B.C

61.3

4.4
77

Fence

58.8

6.9
91

Ditch

Top Fence Post AT Corner

STA + $\nearrow$ - Elev

967.74

X-Sections for North END Parking Lot

STATIONS ALONG RIPLEY

5+50

62.36
62.34

5+00

62.46
62.34

4+50

62.48
62.44

4+00

3+50

3+00