

1485

PASTS

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LEVEL BOOK

No. 330 F

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DEC 24 1964

ENGINEERING DEPARTMENT,  
CITY OF SAN DIEGO,  
CALIFORNIA.

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**THE FREDERICK POST CO.**  
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$$\begin{array}{r} 90 \\ 87 \ 48 \\ \hline 17 \ 7 \ 48 \\ 0 \ 5 \ 12 \\ \hline 181 \ 60 \end{array}$$

$$\begin{array}{r} 90 \\ 81 \ 48 \\ \hline 171 \ 48 \end{array}$$

$$\begin{array}{r} 171 \ 48 \\ 180 \\ \hline 351 \ 48 \end{array}$$

$$\begin{array}{r} 98 \ 12 \\ 90 \\ \hline 8 \ 12 \\ 180 \\ 98 \ 12 \\ \hline 87 \ 48 \end{array}$$

Set up.	Observe	Hor Ang	Dis.	Mag Br.
	Y-8	90° L	320'	
	Y-7	90° L	200	
	Y-6	90° R	418'	
	Y-5	90° R	200'	
	Y-2	0° 0'		
Y-3				

Note: Notes below are Azimuth From Sta. Y-1  
Transit at Y-1 Backsight to Y.

Vernier Set - 0 -

	Y-4	171° 46'	600'	
	Y-3	171° 48'	200'	
Y-2	Y-1	90° 00'		
	Y-2	270° 00'	200'	
	Y	0° 0'		N 16° 00' W
Y-1				

Feb 23<sup>rd</sup> 34.

Agnew - Inst Calvin } et. 1  
Engert - Red Higgins }

Notes of Location Race Track

Bldg's etc

NW Cor Bldg No 2.

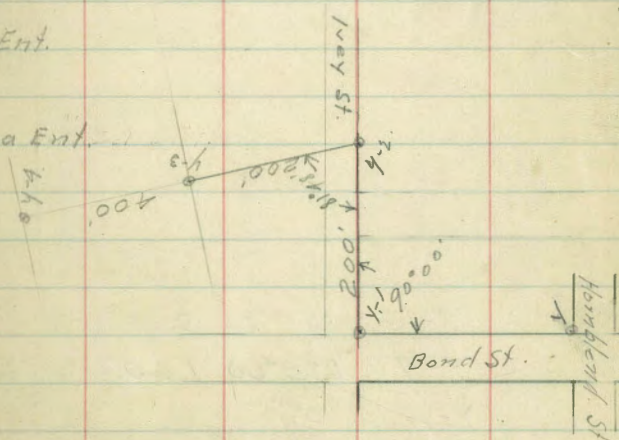
NW Cor Plaza + NE Cor N-2. Bldg

NE. Cor Bldg No 1.

NE. Cor Plaza + NW. Cor Bldg No 1.

S-Side Plaza Ent.

N-Side Plaza Ent.



SE Cor Bond + Hornblend, wooden Hub + Tack  
SW Cor Bond St + Ivey St. Wooden Hub + Tack.

Set up observe Hor Ang Dis

2

Y-10 180°00' 210'  
Y-9 180°00' 120'  
Y-2 0°0'

Y-4

N Side Race Track  
S. Side Bld No 3.



Set up observe Hor. Ang Dis Mag. Br.

4  
Azimuth Location Notes for Canal.

Transit at Y-2. backsight Y-1.

Vernier Set 90°00'

Feb 23<sup>d</sup> '34

T-6 15°12' 271.8 N5°00'E

W-Bank canal.

Agnew - Inst.

T-4 107°09'

Emmert - Rod.

T-5

T-5 287°09' 24.28 N81°00'W.

W-Bank Canal.

Colvin }  
Higgins } ch

T-3 5°42'

T-4

T-4 185°42' 731.65 S10°00'E

E-Bank canal.

T-2 353°42'

T-3

T-3 173°42' 493.02 S-20°00'E

E-Bank canal.

T-1 3°10'

T-2

T-2 183°10' 853.6 S12°30'E

E-Bank of canal.

Y-2 90°00'

T-1

T-1 270°00' 361.25

on East Bank of canal N-Prop Line Ivey St.

Y-1 90°00' 200' N74°30'E

Y-2

Setup observ. Hor. Ang. Dis.

T-14 53° 40' 168.05

T-12 205° 50'

T-13

T-13 25° 50' 205.02

T-11 184° 57'

T-12

T-12 4° 57' 227.5

T-10 171° 28'

T-11

T-11 351° 28' 823.45

T-9 181° 00'

T-10

T-10 1° 00' 519.2

T-8 176° 26'

T-9

T-9 356° 26' 483.26

T-7 183° 25'

T-8

T-8 3° 25' 293.03

T-6 180° 05'

T-7

T-7 0° 05' 307.9

T-5 195° 12'

T-6

S-side Highway W-end Bridge.

W-Bank canal.

W-Bank canal.

W-Bank canal.

W-Bank canal.

W-Bank canal.

W-Bank canal.

W-Bank of canal.

5

Feb. 24<sup>th</sup> 39

Agnew - inst

Eugert - Red.

Higgins } ch.

Colvin }



Set up observe Hor Ang Dis

6

Y-2 90°01'361.95

T-18 359°43'

T-1

T-1 179°43' 446.22

T-17 353°14'

T-18

T-18 173°14' 348.2

T-16 21°47'

T-17

T-17 201°47' 234.6

T-15 46°19'

T-16

T-16 226°19' 216.22

T-14 268°41'

T-15

T-15 88°41' 193.5

T-13 233°40'

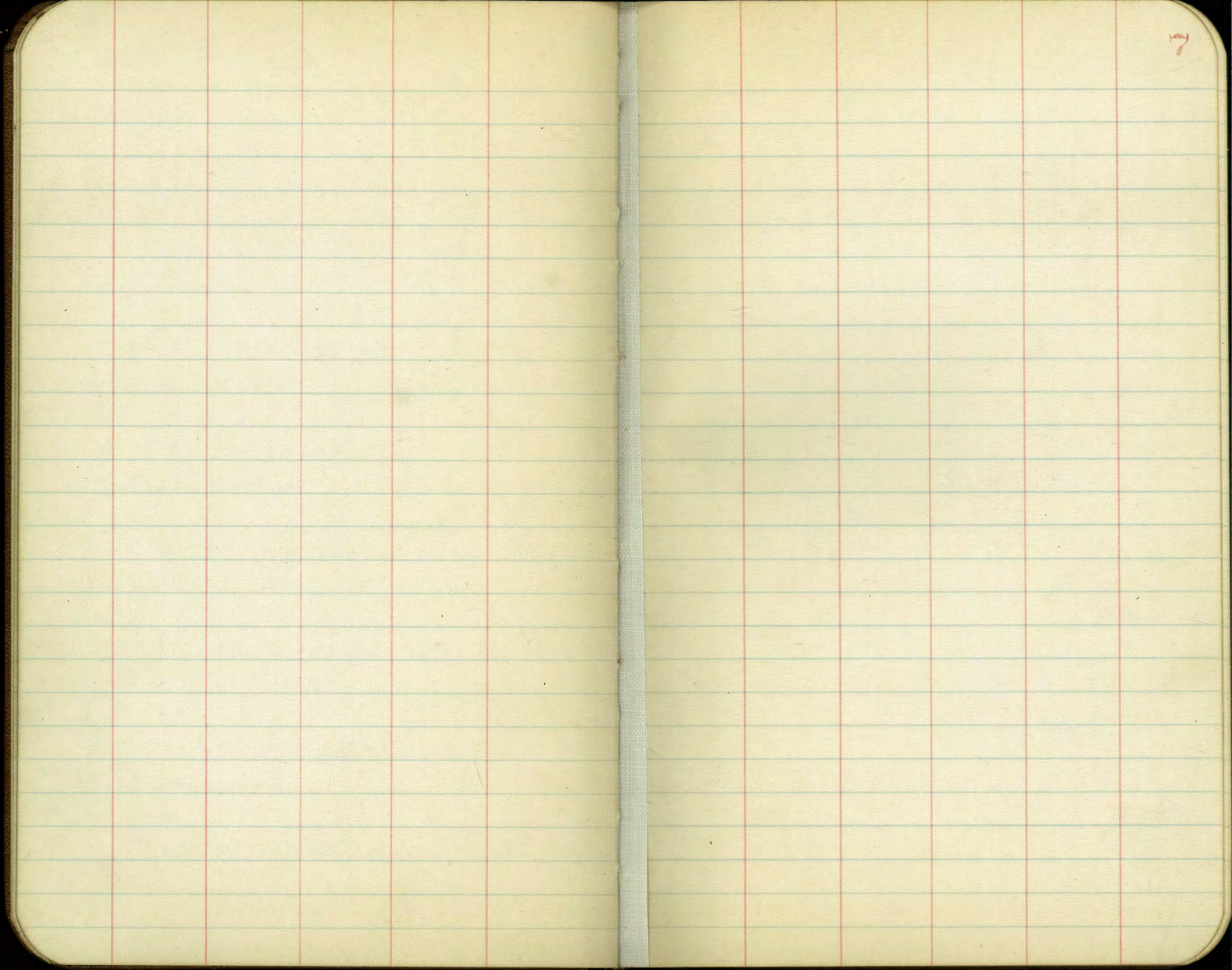
T-14

E-Bank canal

E-Bank canal

East Bank canal

S-Side Highway E-End Bridge.



7



Sta	+	H'	-	Elev.
BM#2-P	5.81	5.17	✓	-0.64 ✓
BM#19-P		5.30		-0.13 ✓
BM#20-P	5.54	6.26	✓	4.45 0.72 ✓
BM#21-P	3.23	4.58	✓	4.91 1.35 ✓

Stas S 0+0 W 15+00  
 " N 4+00 " 15+00  
 " N 9+00 " 15+00

Notes of Canal X section

N 14+00

W 12+00	1.2	3.4
+38	7.6	-3.0
+75	9.5	-4.9
+95	10.0	-5.4
13+00	5.3	-0.7

Top of Bank  
 Bottom " "  
 " " Canal  
 " " Bank  
 Top " "

N 13+75

W 12+95	5.3	-0.7
+90	10.5	-5.9
+65	10.3	-5.7
+38	8.4	-3.8
12+00	+4.0	8.6

" " "  
 Bottom of Bank  
 " " Canal  
 " " Bank

N 13+50

W 12+30	3.0	1.6
+38	8.5	-3.9
+70	9.7	-5.1
85	9.8	-5.2
90	5.2	-0.6

Top of Bank  
 Bottom of Bank  
 " " Canal  
 " " Bank  
 Top " "

Sta	+	H1	-	Elev.
		4.58		
N13+25-				
W12+95			5.2	-0.6
+90			9.8	-5.2
65			9.5	-4.9
36			8.5	-3.9
21			2.8	1.8
N13+00				
W12+26			3.1	1.5
36			8.8	-4.2
65			9.4	-4.8
90			9.8	-5.2
13+05			5.2	-0.6
N12+75				
W13+25			1.3	3.3
13+00			9.1	-4.5
+70			9.2	-4.6
42			9.1	-4.5
29			2.7	1.9
N12+50				
W12+34			3.1	1.5
43			9.4	-4.8
65			9.1	-4.5
13+10			9.1	-4.5
15			2.5	2.1

Top of Bank  
 Bottom " "  
 " " Canal  
 " " Bank  
 Top " "  
 " " "  
 Bott. " "  
 " " Canal  
 " " Bank  
 Top of Bank  
 " " "  
 Bot " "  
 " " Canal  
 " " Bank  
 Top " "  
 " " "  
 Bot " "  
 " " Canal  
 " " Bank  
 Top " "

Sta + H1 - Elev.

N12+25 4.58

W13+17	1.9	2.7
13+00	9.7	-5.1
12+65	9.4	-4.8
+43	9.2	-4.6
+34	2.5	2.1

Top of Bank  
 Bot " "  
 " " canal  
 " " Bank  
 Top " "

N12+00

12+38	3.6	1.0
43	9.3	-4.7
65	9.2	-4.6
95	9.4	-4.8
13+15	2.4	2.2

" " "  
 Bot " "  
 " " canal  
 Bot " Bank  
 Top " "

see Book 1484



Ross T  
 Marsh Rd  
 Huntington Ch  
 Melbourn Ch.  
 March - 1.1934

continued from book 1788

Elev

-0.4

$\frac{1484}{52}$

BM 23P W20+00  
 N6+00

+ HI -  
 498

4.94  
 4.58

W-18+25

7+00 N	42	0.1
25	43	0.3
50	44	0.5
75	44	0.5

W-18+50

7+75	38	0.9
40	42	0.2
25	52	-1.2
7+92	40	0.6

W-18+27

7+00	44	0.5
25	37	0.9
50	33	1.3
75	56	-1.0

W19+00

7+75	33	1.3
50	32	0.9
25	42	0.2
7+00	45	0.1

ditch

ditch



458

W-19+25

7+00 N	40	0.1
25	42	0.1
50	43	0.3
75	41	0.5

W-19+50

7+75	41	0.5
50	42	0.4
25	44	0.0
7+00	42	-0.1

W-19+75

7+00	41	0.2
25	43	0.3
50	42	0.4
75	42	0.6

W-20+00

7+75	43	0.3
50	43	0.3
25	45	0.1
7+00	45	0.1

W-20+25

7+00	46	0.0
25	45	0.1
50	44	0.2
75	44	0.2

458

W-20+50

7+75	36	1.0
50	38	0.8
25	41	0.2
7+00	44	0.2

W-20+75

7+00	42	0.2
25	38	0.8
50	39	0.7
7+75	38	0.8

W-21+00

7+75	39	0.7
50	40	0.6
25	42	0.4
7+00	42	0.4

W-21+25

7+00	44	0.2
25	42	0.4
50	40	0.6
75	38	0.8

W-21+50

7+75	38	0.8
50	37	0.9
25	37	0.9
7+00	41	0.5

458

16

W-21+75

7+00 N	38	0.8
25	39	0.7
50	39	0.7
75	38	0.8

W-22+00

7+75	41	0.5
50	42	0.6
25	41	0.5
7+00	43	0.3

W-22+15

7+00	43	0.3
25	42	0.4
50	39	0.7
75	38	0.8

W-22+50

7+75	36	1.0
50	37	0.9
25	37	0.9
7+00	41	0.5

W-23+75

7+00	38	0.8
25	36	1.0
50	37	1.2
7+75	38	1.2

458

W-23+00

7+75	32	1.4
50	33	1.3
25	35	1.1
7+00	35	1.1

W-23+25

7+00	36	1.0
25	34	1.2
50	32	1.3
75	34	1.5

W-23+50

7+75	34	1.2
50	36	1.0
25	32	1.4
7+00	33	1.3

W-23+75

7+00	34	1.2
25	32	1.4
50	29	1.7
75	29	1.7

W-24+00

7+75	28	1.8
50	29	1.8
25	30	1.6
7+00	32	1.4

17

758

w-18+25

6+00N	45	0.1
25	44	0.2
50	38	0.8
70	40	0.6
6+85	51	-0.5

w-18+50

6+75	35	1.1
50	43	0.3
25	48	0.0
6+00	47	-0.1

w-18+75

6+00	46	0.0
25	43	0.3
50	42	0.4
75	40	0.6

w-19+00

6+75	43	0.3
50	43	0.3
25	45	0.1
6+00	46	0.0

w-19+25

6+00	49	-0.3
25	48	-0.2
50	46	0.0
75	44	0.2

to c of slope  
ditch

458  
u-19+50

6+75 11 44 0.2

50 45 0.0

25 43 -0.2

6+00 42 -0.3

u-19+75

6+00 43 -0.2

25 45 0.1

50 43 0.3

75 44 0.2

u-20+00

6+75 43 0.3

50 45 0.1

25 41 -0.1

6+00 43 -0.2

u-20+25

6+00 41 -0.3

25 45 0.0

50 46 0.0

6+75 44 0.2

u-20+50

6+75 44 0.2

50 43 0.2

25 42 -0.1

6+00 50 -0.4

558

W-20+75

4+00	49	-0.3
25	47	-0.1
50	48	0.2
75	43	0.4

W-21+00

4+75	43	0.4
50	43	0.3
25	31	-0.5
4+00	50	-0.4

W-21+25

4+00	46	0.0
25	48	-0.2
50	46	0.0
75	44	0.2

W-21+50

4+75	43	0.3
50	49	0.2
25	53	-0.6
4+00	51	-0.5

W-21+75

4+00	42	-0.1
25	45	0.1
50	43	0.4
75	38	0.8

458

W-22+00

4+75 N	43	0.2
50	44	0.0
25	48	-0.2
4+00	49	-0.3

W-22+25

4+00	53	-0.7
25	48	-0.2
50	42	-0.1
75	42	0.4

W-22+50

4+75	43	0.4
50	43	0.3
25	45	0.1
4+00	42	-0.1

W-22+75

4+00	41	0.5
25	39	0.7
50	49	0.6
75	35	0.8

W-23+00

6+75	36	1.0
50	39	0.7
25	38	0.8
4+00	39	0.7



458

W-23+25

6+00 N	38	0.8
25	39	0.7
50	38	0.8
75	32	0.9

W-23+50

6+75	33	1.3
50	38	0.8
25	40	0.6
6+00	42	0.3

W-23+75

6+00	39	0.7
25	32	0.9
50	35	1.1
75	36	1.0

W-24+00

6+75	35	1.1
50	38	0.8
25	32	0.9
6+00	38	0.8

W-14+25

5+00 N	52	-1.1
25	54	-0.8
50	52	-1.1
75	55	-0.9

758

23

W-18+50

5+75 N	51	-0.5
50	55	-0.9
25	52	-1.1
5+00	58	-1.2

W-18+75

5+00	56	-1.0
25	53	-0.8
50	52	-0.6
75	42	-0.4

W19+00

5+75	42	-0.3
50	31	-0.5
25	33	-0.2
5+00	54	-0.8

W19+25

5+00	55	-0.9
25	53	-0.7
50	51	-0.5
75	52	-0.6

W19+50

5+75	53	-0.7
50	54	-0.8
25	54	-0.8
5+00	55	-0.9

458

W-19+75

5+00 N	53	-0.8
25	53	-0.7
50	53	-0.6
75	50	-0.4

W-20+00

5+75	53	-0.6
50	54	-0.8
25	55	-0.9
5+00	63	-0.9

W-20+25

5+00	57	-1.1
25	53	-0.9
50	53	-0.6
75	51	-0.5

W-20+50

5+75	53	-0.6
50	55	-0.9
25	60	-1.4
5+00	55	-0.9

W-20+75

5+00	54	-0.8
25	53	-0.7
50	53	-0.7
75	54	-0.8

458

25

W-21+00

5+75 N	53	-0.7
50	52	-0.6
25	52	-0.2
5+00	54	-0.8

W-21+25

5+00	53	-0.7
25	52	-0.6
50	52	-0.6
75	52	-0.4

W-21+50

5+75	51	-0.5
50	52	-0.6
25	52	-0.9
5+00	52	-0.9

W-21+75

5+00	51	-1.1
25	52	-0.4
50	52	-0.6
75	47	-0.3

W-22+00

5+75	60	-1.1
50	64	-2.0
25	64	-1.8
5+00	51	-1.1

958

W-22+25

5+00 N	51	-0.5
25	49	-0.3
50	49	-0.3
75	54	-1.0

W-22+50

5+75	44	0.2
50	44	0.0
25	42	-0.1
5+00	51	-0.5

W-22+75

5+00	45	0.1
25	44	0.0
50	45	0.1
75	42	0.4

23+00

5+75	40	0.6
50	43	0.3
25	45	0.3
5+00	45	0.1

W-23+25

5+00	44	0.2
25	44	0.2
50	43	0.3
75	40	0.6

458

W-23+50

5+75	43	0,3
50	44	0,2
25	42	0,1
5+00	44	0,0

W-23+75

5+00	43	0,3
25	42	0,4
50	40	0,6
75	39	0,7

W-2+100

5+75	39	0,7
50	40	0,6
25	41	0,5
5+00	43	0,3

W-18+25

4+00 N	49	0,4
25	48	-0,2
50	52	-0,4
55	54	-0,8

W-18+50

4+75	56	-1,0
50	56	-1,0
25	54	-0,8
4+00	54	-0,5

27

458  
W-18+75

400 N	54	-0.8
25	52	-1.1
50	54	-0.8
75	55	-0.9

W-19+00

475	54	-0.8
50	54	-0.8
25	54	-1.0
400	55	-0.9

W19+25

400	52	-1.1
25	52	-1.1
50	56	-1.0
75	54	-0.8

W19+50

475	53	-0.7
50	52	-1.1
25	52	-1.1
400	60	-1.4

W19+75

400	60	-1.4
25	56	-1.0
50	56	-1.0
75	54	-0.8

758  
W-20+00

4+75N	58	-1.0
50	55	-0.9
25	52	-1.1
4+00	58	-1.2

W-20+25

4+00	58	-1.2
25	54	-1.0
50	52	-1.1
75	58	-1.2

W-20+50

4+75	54	-0.8
50	56	-1.0
25	52	-1.1
4+00	58	-1.2

W-20+75

4+00	56	-1.0
25	52	-1.1
50	56	-1.0
75	56	-1.0

W-21+00

4+75	56	-1.0
50	52	-1.1
25	58	-1.2
4+00	58	-1.2



458  
W-21+25

4+00 N	63	-1.6
25	64	-1.8
50	59	-1.3
75	52	-0.9

W-21+50

4+75	58	-1.2
50	61	-1.5
25	58	-1.2
4+00	60	-1.4

W-21+75

4+00	58	-1.2
25	58	-1.2
50	53	-0.7
75	63	-1.7

W-22+00

4+75	55	-0.9
50	56	-1.0
25	52	-1.1
4+00	59	-1.3

W-22+25

4+00	52	-1.1
25	52	-1.1
50	52	-1.1
75	53	-0.7

458

w-22+50

4+75 N	52	-0.6
50	54	-0.8
25	54	-0.8
4+00	55	-0.9

w-22+75

4+00	52	-0.6
25	49	-0.3
50	49	-0.3
75	49	-0.2

w-23+00

4+75	47	-0.1
50	48	-0.2
25	51	-0.5
4+00	53	-0.7

w-23+25

4+00	54	-0.5
25	42	-0.1
50	49	-0.3
75	47	-0.2

w-23+50

4+75	47	-0.1
50	48	0.0
25	48	-0.2
4+00	50	-0.4

31

758

W-23+75

4+00 N	51	-0.5
25	49	-0.3
50	49	-0.3
75	45	0.1

W-24+00

4+75	46	0.0
50	46	0.0
25	42	-0.1
4+00	42	-0.3

W-18+25

3+00 N	47	-0.1
25	47	-0.1
50	50	-0.4
75	50	-0.4

W-18+50

3+75	51	-0.5
50	51	-0.5
25	48	-0.2
3+00	49	-0.3

W-18+75

3+00	54	-0.8
25	55	-0.9
50	52	-0.6
75	53	-0.7

458

W-19+00

3+75 N	53	-0.9
50	54	-0.8
25	52	-0.6
3+00	51	-1.1

W-19+25

3+00	55	-0.9
25	54	-0.8
50	52	-0.9
75	58	-1.2

W-19+50

3+75	58	-1.2
50	55	-1.2
25	55	-0.9
3+00	55	-0.9

W-19+75

3+00	57	-1.1
25	58	-1.2
50	60	-1.4
75	61	-1.5

W-20+00

3+75	58	-1.2
50	60	-1.4
25	58	-1.2
3+00	57	-1.1

458

W20+25

3400 N	58	-1.2
25	61	-1.5
50	61	-1.5
75	52	-1.1

W20+50

3475	58	-1.2
50	52	-1.3
25	61	-1.5
3400	59	-1.3

W20+75

3400	61	-1.5
25	61	-1.5
50	52	-1.3
75	58	-1.2

W21+00

3475	52	-1.1
50	52	-1.3
25	52	-1.3
3400	60	-1.4

W21+25

3400	61	-1.5
25	60	-1.4
50	61	-1.5
75	61	-1.5

458  
W 21+50

3+35 N	62	-1.4
50	61	-1.5
25	61	-1.5
3+00	61	-1.5

21+75

3+00	62	-1.4
25	59	-1.3
50	59	-1.3
75	62	-1.4

W 22+00

3+75	62	-1.4
50	55	-0.9
25	52	-1.1
3+00	52	-1.1

22+25

3+00	52	-1.1
25	54	-1.0
50	56	-1.0
75	55	-0.9

W 22+50

3+75	55	-0.9
50	54	-0.8
25	54	-0.8
3+00	52	-1.1

458

W 22+75

3+00 N	52	-1.2
25	54	-1.0
50	54	-1.0
75	52	-0.9

W 23+00

3+75	53	-0.7
50	55	-0.9
25	54	-1.0
3+00	52	-1.2

W 23+25

3+00	51	-1.1
25	56	-1.0
50	52	-0.9
75	52	-0.6

W 23+50

3+75	51	-0.5
50	54	-0.8
25	54	-0.8
3+00	54	-0.8

W 23+75

3+00	52	-1.1
25	54	-0.8
50	53	-0.7
75	52	-0.6

36

f58  
W-24+00

3+75 N	49	-0.3
50	52	-0.6
25	53	-0.7
3+00	54	-1.0

T.P. 558 -0.95 ✓

f82

3.87

W-18+26

2+00 N	42	-0.3
25	41	-0.2
50	41	-0.2
75	42	-0.4

W-18+50

2+75	42	-0.3
50	42	-0.3
25	42	-0.3
2+00	43	-0.4

W-18+75

2+00	45	-0.6
25	44	-0.5
50	45	-0.6
75	45	-0.6

on 11' hub W24+00 - 13+00

37



387

38

W-19+00

2+75N	48	-0.6
50	47	-0.8
25	47	-0.8
2+00	47	-0.8

W-19+25

2+00	47	-1.0
25	50	-1.1
50	45	-0.6
75	48	-0.9

W-19+50

2+75	48	-0.9
50	48	-0.8
25	52	-1.5
2+00	52	-1.5

W-19+75

2+00	47	-0.8
25	48	-0.9
50	52	-1.3
75	48	-0.9

W-20+00

2+75	49	-1.0
50	49	-1.0
25	50	-1.1
2+00	47	-0.8

387

W 20+25

2+00 N	54	-1.2
25	54	-1.5
50	49	-1.0
75	50	-1.1

W 20+50

2+75	50	-1.1
50	49	-1.0
25	51	-1.2
2+00	53	-1.3

W 20+75

2+00	54	-1.5
25	51	-1.2
50	54	-1.5
75	55	-1.6

W 21+00

2+75	55	-1.6
50	55	-1.6
25	56	-1.7
2+00	52	-1.3

W 21+25

2+00	56	-1.7
25	54	-1.5
50	55	-1.6
75	54	-1.5

39

387

W-21+50

2+75	55	-1.6
50	55	-1.6
25	54	-1.5
2+00	54	-1.5

W 21+75

2+00	55	-1.6
25	55	-1.6
50	54	-1.5
75	53	-1.4

W 22+00

2+75	52	-1.3
50	53	-1.4
25	53	-1.4
2+00	53	-1.4

W 22+25

2+00	53	-1.4
25	53	-1.4
50	50	-1.1
75	50	-1.1

W 22+50

2+75	50	-1.1
50	53	-1.3
25	53	-1.4
2+00	53	-1.4

40

387

W 22+75

2+00, N	53	-1,4
25	53	-1,4
50	51	-1,2
75	51	-1,2

W 23+00

2+75	51	-1,2
50	53	-1,3
25	53	-1,4
2+00	54	-1,5

W 23+25

2+00	53	-1,4
25	53	-1,3
50	53	-1,3
75	51	-1,2

W 23+50

2+75	50	-1,1
50	50	-1,1
25	52	-1,3
2+00	54	-1,5

W 23+75

2+00	54	-1,5
25	54	-1,5
50	53	-1,4
75	53	-1,4

41

387

W 24+00

2+75 N	53	-1.4
50	53	-1.4
25	52	-1.3
1+00	54	-1.5

W-18+25

1+00 N	45	-0.6
25	42	-0.3
50	43	-0.4
75	42	-0.3

W-18+50

1+75	43	-0.4
50	44	-0.5
25	42	-0.4
1+00	44	-0.7

W18+75

1+00	43	-0.9
25	42	-0.4
50	42	-0.8
75	45	-0.6

W19+00

1+75	43	-0.5
50	46	-0.7
25	42	-0.8
1+00	50	-1.1

42

387

W19+25

1+00 M	41	-0.2
25	42	-0.3
50	43	-0.6
75	46	-0.7

W19+50

1+75	51	-1.2
50	48	-0.9
25	51	-1.2
1+00	42	-0.8

W19+75

1+00	47	-0.8
25	51	-1.2
50	45	-0.6
75	48	-0.5

W20+00

1+75	42	-0.8
50	43	-0.6
25	46	-0.7
1+00	51	-1.2

W20+25

1+00	48	-0.9
25	45	-0.6
50	47	-0.8
75	47	-0.8

387

W 20+50

1+75	48	-0.9
50	47	-0.8
25	48	-0.9
1+00	42	-0.8

W 20+75

1+00	42	-0.8
25	48	-0.9
50	49	-1.0
75	51	-1.5

W 21+00

1+75	52	-1.5
50	52	-1.3
25	48	-0.9
1+00	48	-0.9

W 21+25

1+00	53	-1.4
25	51	-1.5
50	55	-1.6
75	56	-1.7

W 21+50

1+75	56	-1.7
50	56	-1.7
25	56	-1.7
1+00	56	-1.7

44

387  
W 2175

1+00 N	52	-1.5
25	55	-1.6
50	56	-1.7
75	55	-1.6

W 22+00

1+75	54	-1.5
50	55	-1.6
25	56	-1.7
1+00	57	-1.8

W 22+25

1+00	51	-1.2
25	53	-1.4
50	52	-1.3
75	52	-1.3

W 22+50

1+75	51	-1.2
50	52	-1.3
25	53	-1.4
1+00	54	-1.5

W 22+75

1+00	52	-1.4
25	54	-1.5
50	54	-1.5
75	54	-1.5



387  
W 23100

1775 N	54	-1.5
50	55	-1.6
25	53	-1.4
100	53	-1.4

W 23+25

1400	54	-1.5
25	55	-1.6
50	53	-1.4
75	54	-1.5

W 23+50

1775	53	-1.4
50	53	-1.4
25	53	-1.4
100	54	-1.5

W 23+75

1400	54	-1.5
25	53	-1.4
50	53	-1.4
75	54	-1.5

W 24100

1775	53	-1.3
50	52	-1.3
25	54	-1.5
100	53	-1.4

387

W-18+25

0+00 N	40	-0.1
25	38	-0.1
50	38	0.1
75	40	-0.7

W18+50

0+75	40	-0.1
50	38	0.1
25	39	0.0
0+00	41	-0.2

W18+75

0+00	41	-0.2
25	41	-0.2
50	40	-0.1
75	42	-0.3

W19+00

0+75	41	-0.2
50	44	-0.5
25	42	-0.3
0+00	42	-0.3

W19+25

0+00	41	-0.5
25	42	-0.3
50	41	-0.5
75	44	-0.7

47

387  
W19+50

0+75 N	42	-1.0
50	45	-0.6
25	45	-0.6
0+00	44	-0.7

W19+75

0+00	42	-0.8
25	44	-0.7
50	44	-0.7
75	50	-1.1

W20+00

0+75	51	-1.2
50	50	-1.1
25	46	-0.7
0+00	44	-0.7

W20+25

0+00	51	-1.2
25	48	-0.9
50	55	-1.4
75	50	-1.1

W20+50

0+75	42	-0.8
50	49	-1.0
25	48	-0.9
0+00	48	-0.9

387

W 20+75

0+00-N	51	-1.2
25	51	-1.2
50	42	-0.8
75	42	-0.8

W 21+00

0+75	42	-0.8
50	50	-1.1
25	50	-1.1
0+00	53	-1.4

W 21+25

0+00	51	-1.2
25	50	-1.1
50	51	-1.2
75	50	-1.1

W 21+50

0+75	57	-1.8
50	53	-1.4
25	51	-1.2
0+00	54	-1.5

W 21+75

0+00	53	-1.4
25	54	-1.7
50	56	-1.7
75	53	-1.8

387

W 22+60

0+75 N	52	-1.8
50	53	-1.3
25	54	-1.5
0+00	54	-1.5

W 22+25

0+00	52	-1.6
25	53	-1.3
50	52	-1.8
75	52	-1.8

W 22+50

0+75	52	-1.8
50	52	-1.8
25	54	-1.7
0+00	52	-1.8

W 22+75

0+00	56	-1.7
25	54	-1.7
50	56	-1.7
75	55	-1.6

W 23+00

0+75	54	-1.5
50	55	-1.6
25	52	-1.8
0+00	54	-1.5

50

387

W 23 + 25

0400 N	53	-1.4
25	54	-1.4
50	54	-1.4
75	54	-1.2

W 23 + 50

0475	54	-1.5
30	54	-1.5
25	55	-1.6
0400	55	-1.6

W 23 + 75

0400	57	-1.8
25	54	-1.7
50	54	-1.5
75	54	-1.5

W 24 + 00

0475	53	-1.4
50	53	-1.4
25	55	-1.6
0400	55	-1.6
TP	497	-1.10
0420		-1.14

— BNI 24P

N 1 + 00  
W - 20 + 00

51

Ross -  
Marion - Red  
Niel Horn - ch  
Huntington - ch

52

4 HI - E. lev ✓  
4.12 -1.14  $\frac{1484}{52}$

BM 24P

N 1+00  
W 20+00

3.28

w- 18+25

3+00 S	42	-1.4
75	44	-1.1
50	46	-1.3
25	42	-0.9

w 18+50

25	42	-0.9
50	42	-0.9
75	45	-1.2
3+00	45	-1.2

w- 18+75

3+00	43	-1.0
75	42	-1.4
50	43	-1.0
2 25	43	-1.0

w- 19+00

2 25	42	-0.9
50	46	-1.3
75	45	-1.2
3+00	45	-1.5

328

w-19+25

3+00 S	42	-1.4
75	42	-1.3
50	42	-1.5
25	45	-1.2

w-19+50

2+25	44	-1.1
50	42	-1.4
75	42	-1.6
3+00	42	-1.6

w-19+75

3+00	42	-1.6
75	42	-1.6
50	46	-1.3
25	44	-1.1

w-20+00

2+25	42	-1.2
50	42	-1.6
75	42	-1.4
3+00	51	-1.8

w-20+25

3+00	52	-1.9
75	42	-1.6
50	42	-1.5
25	42	-1.6

53



325

w-20+50

2+25.5	46	-1.3
50	48	-1.5
75	48	-1.5
3+00	50	-1.7

w 20+75

3+00	50	-1.7
75	49	-1.6
50	48	-1.5
25	48	-1.5

w 21+00

2+25	47	-1.4
50	48	-1.2
75	49	-1.6
3+00	50	-1.7

w 21+25

3+00	51	-1.8
75	53	-2.0
50	52	-1.9
25	49	-1.6

w 21+50

2+25	49	-1.6
50	48	-1.5
75	50	-1.7
3+00	51	-1.8

54

32F

W 21+70

3+00	51	-1.8
75	52	-1.7
50	48	-1.5
25	42	-1.4

W 22+00

2+25	50	-1.7
50	50	-1.7
75	50	-1.7
3+00	51	-1.8

W 22+25

3+00	52	-1.9
75	50	-1.7
50	50	-1.7
25	51	-1.8

W 22+50

2+25	49	-1.6
50	49	-1.6
75	51	-1.8
3+00	52	-1.9

W 22+75

3+00	51	-1.8
75	51	-1.8
50	51	-1.8
25	52	-2.2

55

325

W 23+00

2+25	52	-1.9
50	54	-1.8
75	51	-1.8
3+00	51	-1.8

W 23+25

3+00	53	-2.0
75	52	-2.0
50	45	-1.5
25	54	-1.8

W 23+50

2+25	52	-1.9
50	54	-2.3
75	49	-1.6
3+00	52	-1.9

W 23+75

3+00	53	-2.0
75	52	-2.0
50	52	-1.9
25	54	-2.1

W 24+00

2+25	54	-2.3
50	51	-1.8
75	53	-2.0
3+00	52	-1.9

325

W 24+25

3+00	5	59	-2.1
75		51	-1.8
50		58	-2.5
25		56	-2.3

W 24+50

2+25		56	-2.3
50		58	-2.5
75		58	-2.5
3+00		51	-1.8

W 24+75

3+00		57	-2.1
75		51	-2.1
50		58	-2.5
25		59	-2.1

W 25+00

2+25		56	-2.3
50		52	-2.4
75		52	-1.9
3+00		59	-2.1

W 25+25

3+00		51	-1.8
75		55	-2.2
50		58	-2.5
25		52	-2.4

57

325

W 25+50

2+25 S	56	-2.3
50	52	-2.4
75	52	-1.9
3+00	59	-2.6

W 25+75

3+00	51	-1.8
75	54	-2.3
50	52	-2.4
25	53	-2.5

W 26+00

2+25	51	-2.4
50	54	-2.3
75	54	-2.3
3+00	52	-1.9

W 18+25

4+00 S	51	-1.8
75	48	-1.5
50	46	-1.3
25	44	-1.3

W 18+50

3+25	50	-1.7
50	47	-1.4
75	47	-1.4
4+00	45	-1.5

58

325

W-18+75

4+00	3	49	-1.6
75		50	-1.7
50		49	-1.6
25		45	-1.2

W19+00

3+25		46	-1.3
50		48	-1.5
75		52	-1.9
4+00		51	-1.8

W19+25

4+00		51	-1.8
75		48	-1.5
50		49	-1.6
25		51	-1.8

W19+50

3+25		50	-1.7
50		52	-1.7
75		50	-1.7
4+00		50	-1.7

W19+75

4+00		54	-2.1
75		52	-1.9
50		50	-1.7
25		50	-1.7

59

3 25

W 20400

3+25	50	-1.7
50	53	-1.9
75	55	-2.3
1+00	525	-2.00

W 20425

4+00	56	-2.3
75	54	-2.1
50	51	-1.8
25	52	-1.9

W 20450

3+25	50	-1.7
50	53	-1.9
75	52	-1.9
4+00	53	-2.1

W 20475

4+00	52	-2.2
75	54	-2.1
50	52	-2.0
25	52	-1.9

W 21400

3+25	51	-1.8
50	51	-1.8
75	51	-1.8
4+00	51	-2.1

BM 25

W 20400

54+00

225

21+25

4+00	5	54	-2.1
75		53	-2.0
50		53	-2.0
25		52	-1.9

W 21+50

3+25		50	-1.7
50		52	-1.9
75		52	-1.9
4+00		54	-2.1

21+75

4+00		54	-2.1
75		52	-1.9
50		52	-1.7
25		52	-1.9

W 22+00

3+25		51	-1.8
50		52	-1.7
75		53	-2.0
4+00		53	-2.0

W 22+25

4+00		54	-2.3
75		53	-2.0
50		52	-1.9
25		51	-2.1



328

w 22+50

3+25	53	-2.0
50	54	-2.1
75	54	-2.1
1+00	54	-2.3

w 22+75

4+00	54	-2.3
75	53	-2.0
50	53	-2.0
25	53	-1.9

23+00

3+25	51	-1.8
50	52	-1.9
75	54	-2.1
1+00	52	-2.4

23+25

4+00	54	-2.3
75	54	-2.1
50	53	-2.0
25	54	-2.1

w 23+50

3+25	52	-1.8
50	53	-2.0
75	53	-2.2
1+00	54	-2.3

62

328

W 23+75

4+00 S	47	-1.4
75	54	-2.1
50	50	-1.7
25	52	-1.9

W 24+00

3+25	51	-1.8
50	55	-2.3
75	53	-2.1
4+00	50	-2.1

W 24+75

4+00	53	-2.0
75	52	-1.9
50	52	-2.4
25	53	-2.0

W 24+50

3+25	50	-1.7
50	54	-2.1
75	53	-2.0
4+00	54	-2.1

W 24+75

4+00	53	-2.0
75	52	-1.9
50	50	-2.3
25	52	-2.1

63

328

W 25+00

3+205	52	-1.9
50	51	-1.8
75	52	-1.9
4+00	52	-2.2

W 25+25

4+00	50	-1.7
75	50	-1.7
50	49	-1.6
25	50	-2.3

25+50

3+25	52	-2.0
50	56	-2.3
75	52	-2.4
4+00	52	-1.9

W 25+75

4+00	54	-2.1
75	55	-2.2
50	54	-2.1
25	53	-2.0

W 26+00

3+25	49	-1.6
50	53	-2.0
75	54	-2.1
4+00	54	-2.1
TP	59	-2.21

T.P.

W 26+20 40  
S 4+00

IXI hub

499

299 ✓

Elev

-2.00 ✓

BM.25

W 20+00  
S 4+00

W-18+25

5+00 S	46	-2.1
75	46	-2.1
50	44	-1.9
25	42	-1.5

W 18+50

4+25	42	-1.5
50	41	-1.6
75	42	-2.3
5+00	42	-2.3

W 18+75

5+00	42	-1.7
75	42	-1.5
50	41	-1.6
25	42	-1.5

W 19+00

4+25	42	-2.1
50	41	-1.6
75	42	-1.5
5+00	44	-1.9

249

w 19+25

5+00	5	42	-1.7
75		40	-1.5
50		48	-2.3
25		44	-2.1

w 19+50

4+25		46	-2.1
50		45	-2.0
75		50	-2.5
5+00		52	-2.7

w 19+75

5+00		52	-2.7
75		45	-2.3
50		45	-2.0
25		44	-1.9

w 20+00

4+25		48	-2.3
50		45	-2.0
75		44	-2.1
5+00		52	-2.7

w 20+25

5+00		51	-2.9
75		50	-2.5
50		50	-2.5
25		30	-2.5

66

249

w 20+50

4+25	50	-2.5
50	51	-2.6
75	49	-2.1
5+00	52	-2.7

w 20+75

5+00	54	-2.9
75	54	-2.6
50	49	-2.4
25	49	-2.4

w 21+00

4+25	48	-2.3
50	48	-2.3
75	48	-2.3
5+00	54	-2.6

w 21+25

5+00	50	-2.5
75	48	-2.3
50	48	-2.3
25	47	-2.2

w 21+50

4+25	49	-2.1
50	49	-2.2
75	50	-2.5
5+00	52	-2.7

67

249

68

w21+75

5+100	52	-2.7
75	52	-2.7
50	47	-2.7
25	46	-2.1

w22+00

4+25	47	-2.2
50	50	-2.5
75	50	-2.5
5+00	52	-2.7

w22+25

5+00	54	-2.9
75	52	-2.7
50	50	-2.5
25	48	-2.3

w22+50

4+25	50	-2.3
50	52	-2.7
75	54	-2.9
5+00	52	-2.7

w22+75

5+00	53	-2.8
75	53	-2.8
50	50	-2.5
25	50	-2.5

249

23+00 W

4+25	5	49	-2.4
50		51	-2.6
75		51	-2.6
5+00		54	-2.9

W 23+25

5+00		54	-2.9
75		51	-2.6
50		51	-2.6
25		51	-2.6

W 23+50

4+25		49	-2.4
50		51	-2.6
75		52	-2.8
5+00		52	-2.7

W 23+75

5+00		52	-2.7
75		51	-2.6
50		51	-2.6
25		52	-2.5

W 24+00

4+25		49	-2.4
50		52	-2.5
75		51	-2.6
5+00		52	-2.7

69



249

W 24+25

5+00 S	50	-2.5
75	49	-2.4
50	47	-2.2
25	48	-2.3

W 24+50

4+25	48	-2.3
50	48	-2.3
75	48	-2.3
5+00	50	-2.5

W 24+75

5+00	50	-2.5
75	49	-2.4
50	47	-2.2
25	46	-2.1

W 25+00

4+25	49	-2.4
50	49	-2.4
75	50	-2.5
5+00	51	-2.6

W 25+25

5+00	51	-2.6
75	50	-2.5
50	47	-2.2
25	46	-2.1

70

299

W 25+50

4+25 S	47	-2.2
50	48	-2.3
75	50	-2.5
5+00	52	-2.7

W 25+75

5+00	53	-2.7
75	51	-2.6
50	47	-2.2
25	47	-2.2

W 26+00

4+25	46	-2.1
50	47	-2.2
75	49	-2.4
5+00	50	-2.5

W 18+25

—	—	—
4+00 S	48	-4.3
75	56	-3.1
50	52	-2.7
25	54	-2.9

W 18+50

5+25	55	-3.0
50	55	-3.0
75	52	-3.2
6+00	60	-3.5

71

249

w 18+75

6+00 S	52	-3.3
75	55	-3.0
50	52	-2.7
25	48	-2.3

w 19+00

5+25	59	-2.5
50	53	-2.8
75	52	-3.0
6+00	54	-3.1

w 19+25

6+00	57	-3.2
75	52	-3.0
50	52	-2.7
25	49	-2.4

w 19+50

5+25	54	-2.9
50	52	-3.1
75	52	-3.2
6+00	60	-3.5

w 19+75

6+00	59	-3.4
75	57	-3.2
50	52	-3.0
25	52	-2.9

72

279

20+00 W

5+25	54	-2.9
50	54	-3.1
75	54	-3.1
6+00	58	-3.3

W20+25

6+00	52	-3.2
75	54	-2.9
50	54	-2.9
25	54	-2.9

W20+30

5+25	52	-3.3
50	54	-3.1
75	52	-2.5
6+00	52	-2.3

W20+75

6+00	55	-3.0
75	55	-3.0
50	52	-3.4
25	55	-3.3

W21+00

5+25	51	-2.6
50	52	-2.7
75	55	-3.0
6+00	54	-2.9

73

299

W 21+25

6+00 S	55	-3.0
75	54	-2.9
50	54	-2.9
25	53	-2.8

W 21+50

5+25	53	-2.8
50	55	-3.0
75	54	-2.9
6+00	55	-3.0

W 21+75

6+00	54	-3.1
75	52	-3.2
50	55	-3.0
25	54	-3.1

W 22+00

5+25	55	-3.0
50	54	-3.1
75	54	-3.1
6+00	54	-3.1

W 22+25

6+00	54	-3.1
75	55	-3.0
50	55	-3.0
25	54	-3.1

74

279

W 22+50

5+25	52	-2.9
50	55	-3.0
75	52	-3.2
6+00	58	-3.3

W 22+75

6+00	59	-3.4
75	58	-3.3
50	56	-3.1
25	53	-3.2

W 23+00

5+25	56	-3.1
50	57	-3.2
75	58	-3.3
6+00	57	-3.2

W 23+25

6+00	54	-3.1
75	56	-3.1
50	54	-3.1
25	55	-3.0

W 23+50

5+25	53	-2.8
50	54	-2.9
75	54	-2.9
6+00	55	-3.0

75

249

W 23+75

6+00 S	55	-3.0
75	55	-3.0
50	53	-2.8
25	53	-2.8

W 21+00

5+25	52	-2.7
50	52	-2.8
75	55	-3.0
6+00	55	-3.0

W 24+25

6+00	54	-3.1
75	54	-2.9
50	54	-2.9
25	53	-2.8

W 24+50

5+25	52	-2.7
50	53	-2.8
75	54	-2.9
6+00	52	-3.2

W 22+75

6+00	55	-3.0
75	53	-2.8
50	53	-2.8
25	52	-2.7

76

249

W 25+00

5+250	52	-2.7
50	52	-2.7
75	53	-2.8
6+00	54	-3.1

W 25+25

6+00	55	-3.0
75	55	-3.0
50	54	-2.9
25	52	-2.7

W 25+50

5+25	55	-3.0
50	53	-2.8
75	53	-2.9
6+00	54	-2.9

W 25+75

6+00	54	-2.9
75	54	-2.9
50	53	-2.8
25	53	-2.8

W 26+00

5+25	52	-2.5
50	53	-2.8
75	54	-3.1
6+00	52	-3.3

72



+ 279  
HI - Elev

+P 4<sup>9</sup> -2.00 ✓

BM 25  
L 20+00  
S 2+00

continued in book.

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