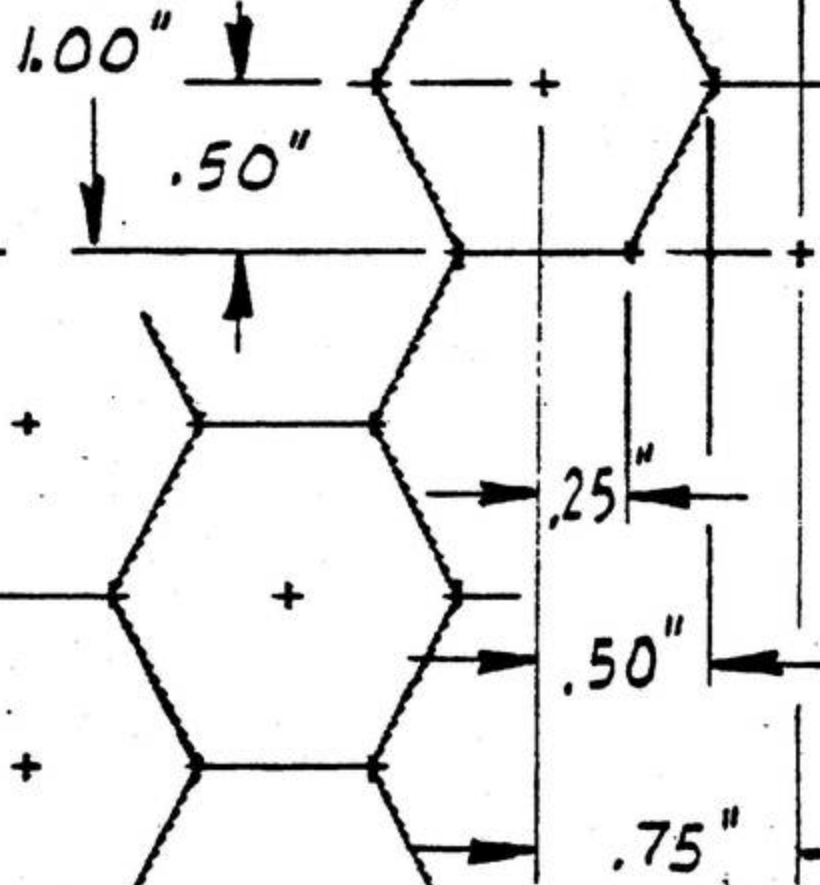


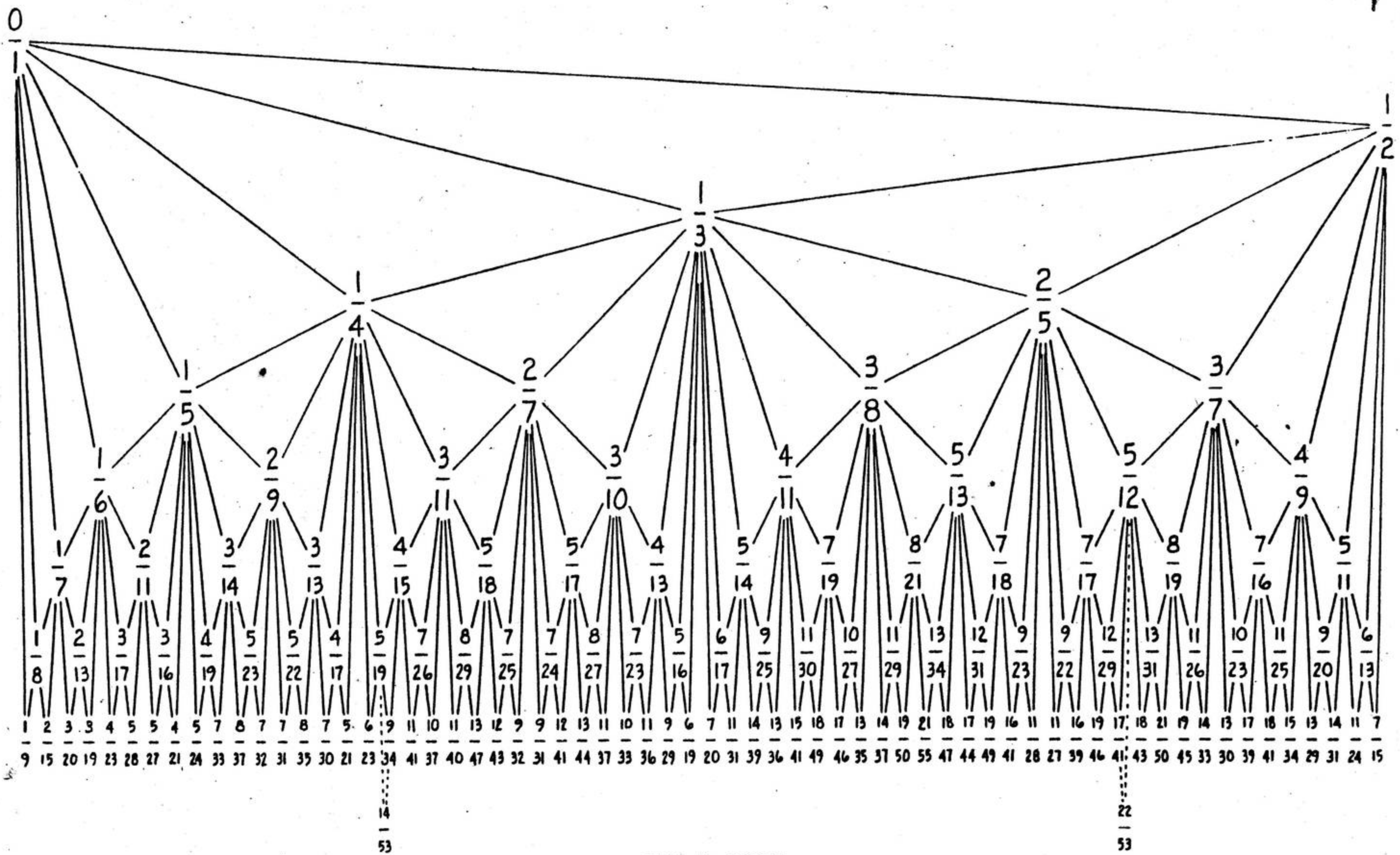
# Multi-Keyboard Gridiron

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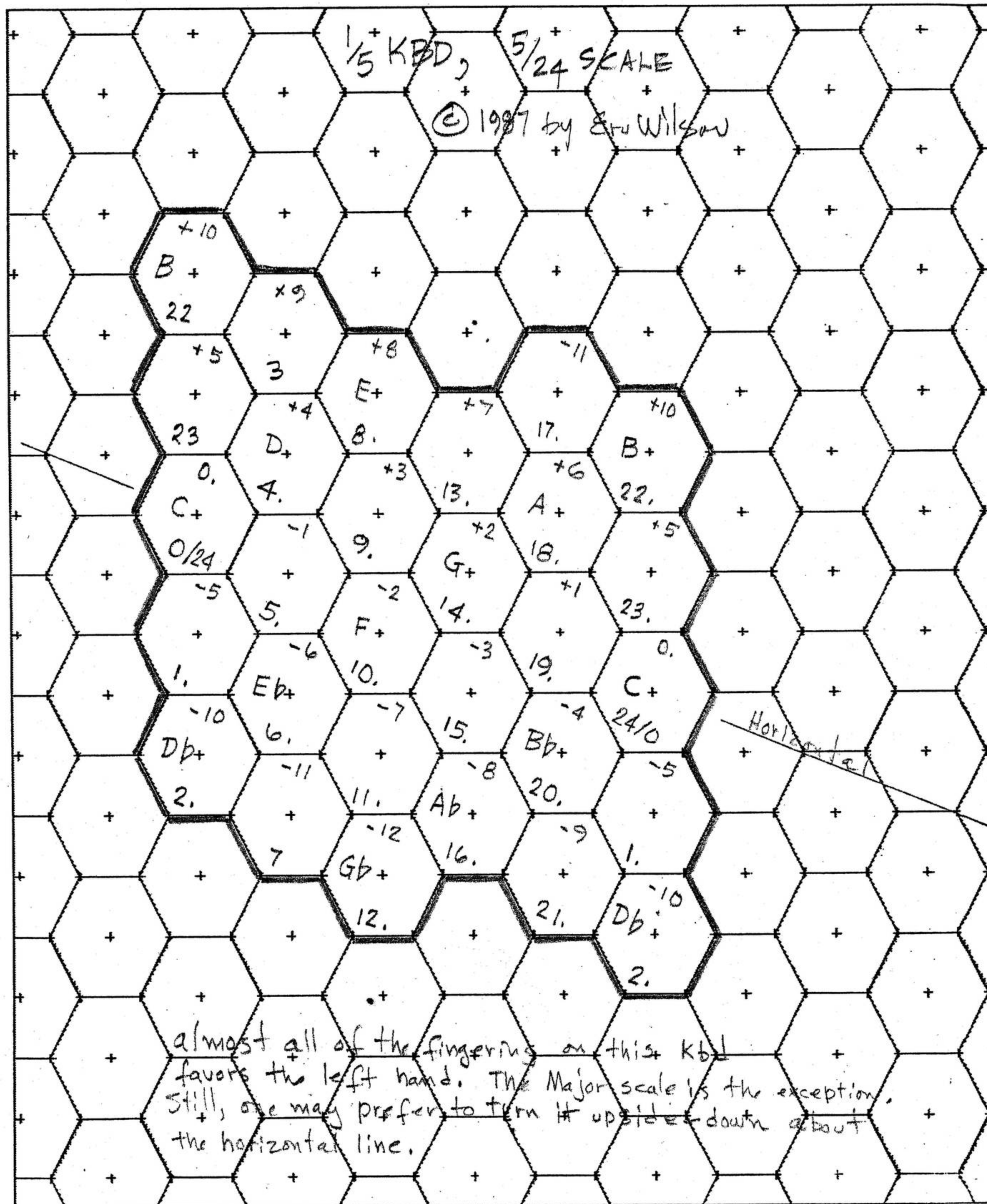
This document contains proprietary information and except with written permission of Erv Wilson, such information shall not be published or disclosed to others or used for any purpose and the document shall not be duplicated in whole or in part.



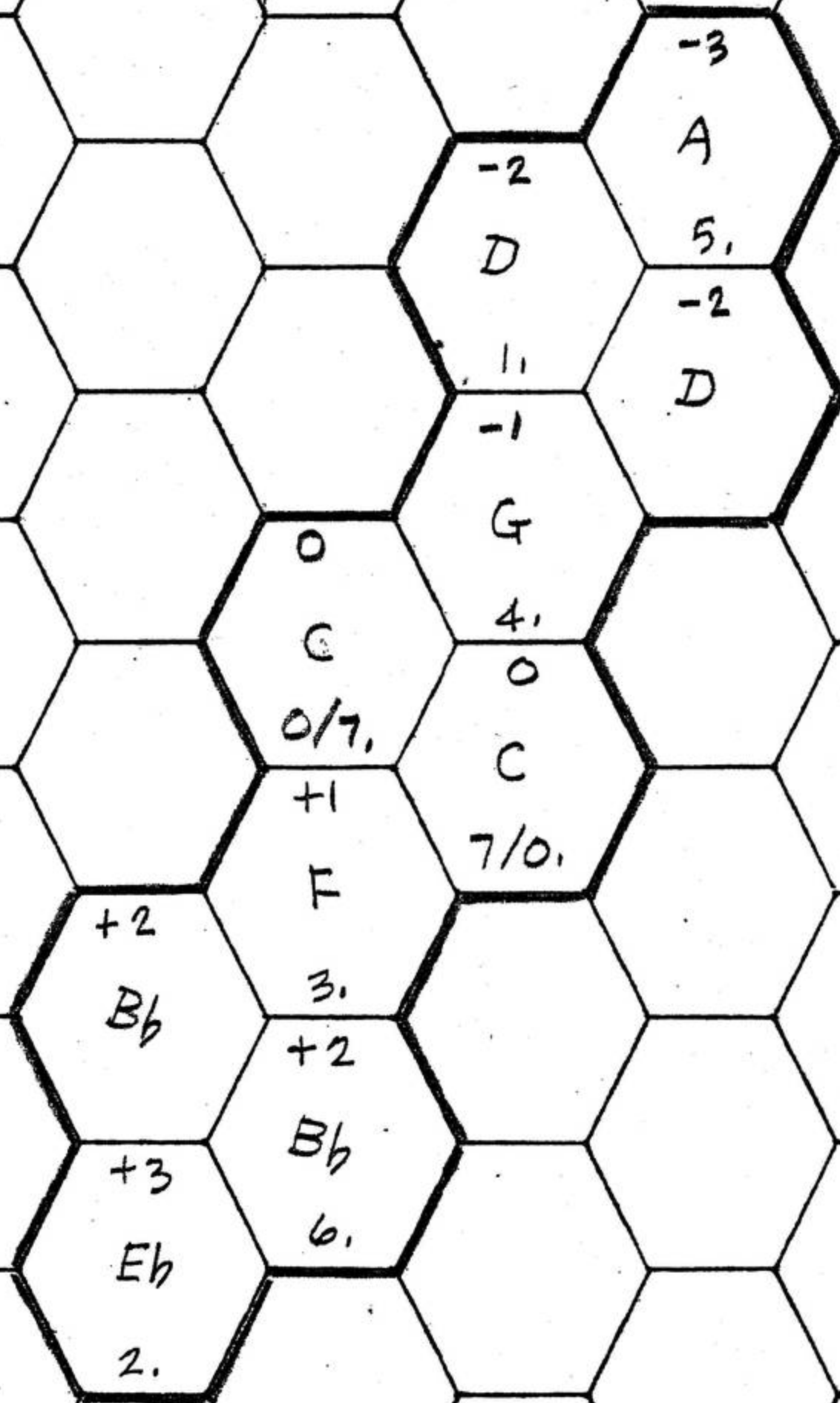
Notice; The contents of this drawing are the proprietary design of Ervin M. Wilson, 844 N. Ave 65, Los Angeles CA 90042, Phone: (213) 256-2624.



SCALE TREE  
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0/1 KBD, 3/4 Scale  
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Gridiron  
p4

1/5 KBD 5/23 SCALE

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0/5

1

2

3

4

5/0

Ranks

+13 etc

+9

+12

Sl #

Ps #

+8

+11

1.

9.

Pu #

Kg #

+4

+7

+10

Galimer

Liwong

Sg #

+9

0

+3

+6

Singgul

Panangis

11.

19.

Sl #

0/23.

-1

+2

Barang

+5

1.

Panelu

Kenong

Pamiring

-5

-2

+1

Grb

Lgb

Sorog

21.

-9

-6

-3

2.

Psb

10.

Bgb

18.

Singgul

Slb

-10

-7

15.

-4

23/0

22.

Pub

7.

Kgb

-8

Pgb

20.

-11 etc.

12.

Sgb

-9

Slb

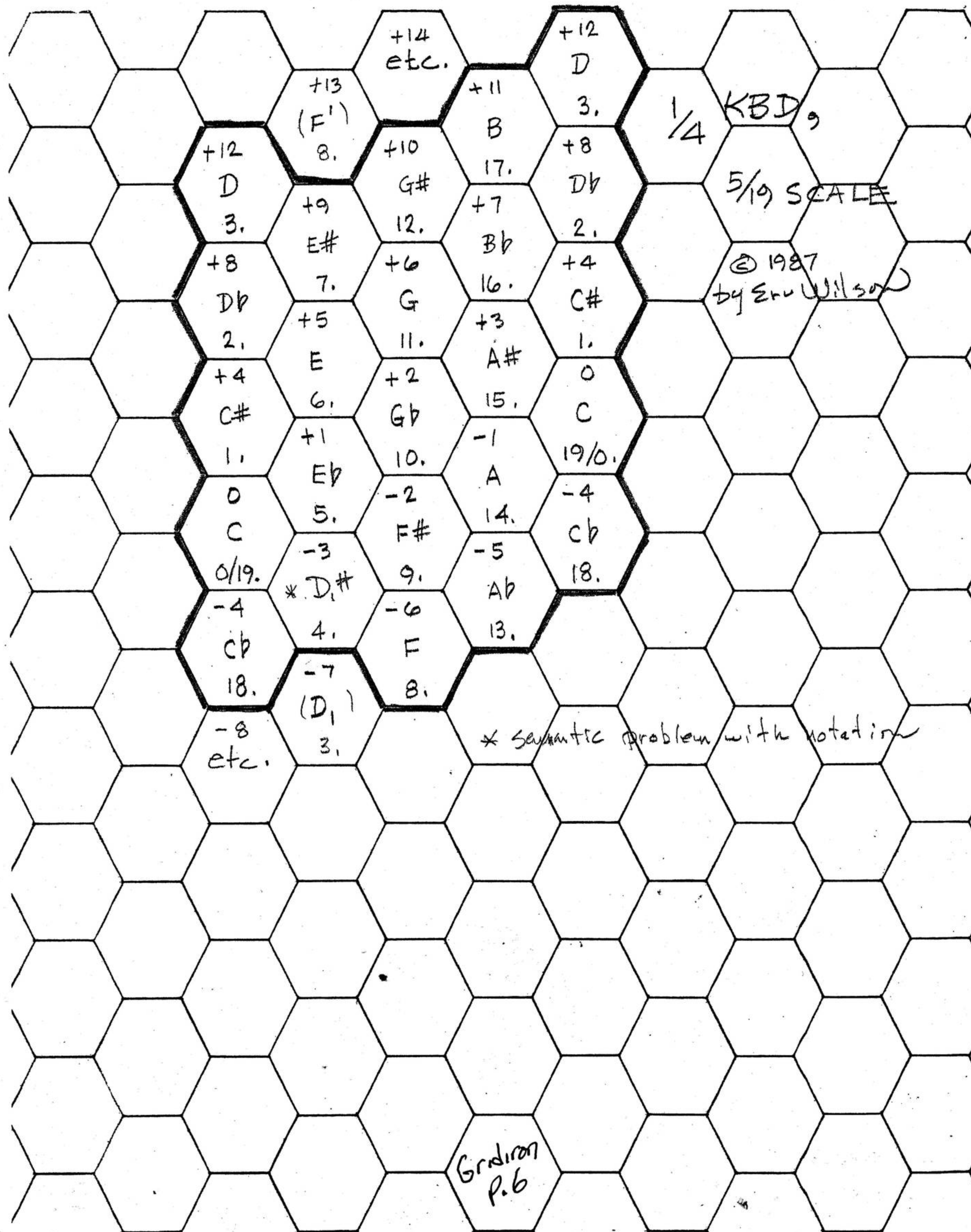
22.

HORIZONTAL

1/2"

3/4"

Gridiron p.5



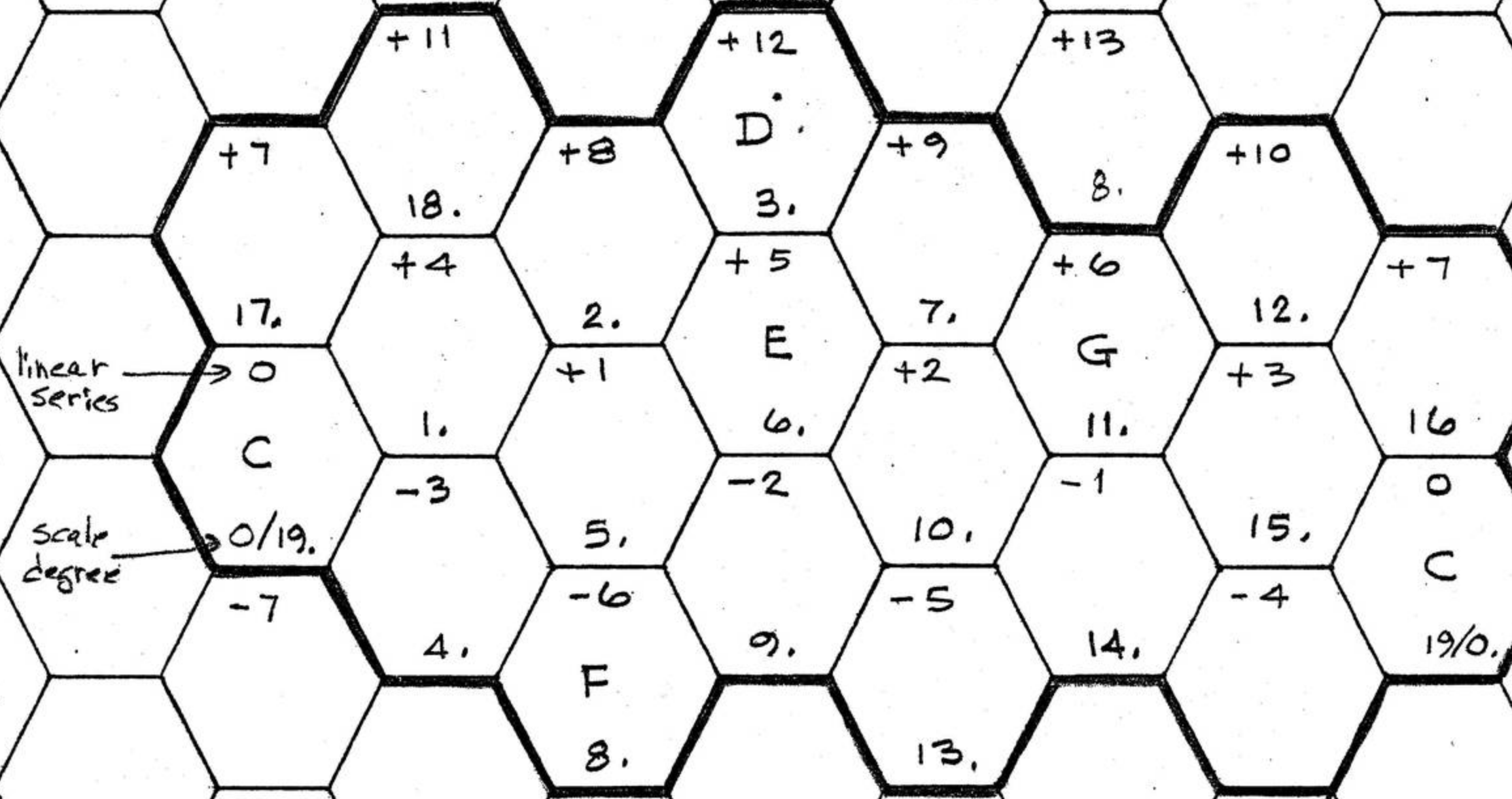
+14 etc.	+13 (F <sup>1</sup> ) 8.	+12 D 3.
+12 D 3.	+11 B 17.	+10 G# 12.
+10 G# 12.	+9 E# 7.	+8 D <sup>b</sup> 2.
+9 E# 7.	+8 D <sup>b</sup> 2.	+7 B <sup>b</sup> 16.
+8 D <sup>b</sup> 2.	+7 B <sup>b</sup> 16.	+6 G 11.
+7 B <sup>b</sup> 16.	+6 G 11.	+5 E 6.
+6 G 11.	+5 E 6.	+4 C# 1.
+5 E 6.	+4 C# 1.	+3 A# 15.
+4 C# 1.	+3 A# 15.	+2 G <sup>b</sup> 10.
+3 A# 15.	+2 G <sup>b</sup> 10.	+1 E <sup>b</sup> 5.
+2 G <sup>b</sup> 10.	+1 E <sup>b</sup> 5.	-2 F# 9.
+1 E <sup>b</sup> 5.	-2 F# 9.	-3 *D <sub>1</sub> # 4.
-2 F# 9.	-3 *D <sub>1</sub> # 4.	-4 C <sup>b</sup> 18.
-3 *D <sub>1</sub> # 4.	-4 C <sup>b</sup> 18.	-5 A <sup>b</sup> 13.
-4 C <sup>b</sup> 18.	-5 A <sup>b</sup> 13.	-6 F 8.
-5 A <sup>b</sup> 13.	-6 F 8.	-7 (D <sub>1</sub> ) 3.
-6 F 8.	-7 (D <sub>1</sub> ) 3.	-8 etc.

1/4 KBD,  
5/19 SCALE  
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\* Semantic problem with notation

$2/7$  KBD,  $5/19$  scale

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linear series →

scale degree → 0/19.

Reference; Verbal communication with Larry Hansen, and his unpublished works.

(Linear subsets of 1-, 2-, 3-, 4-, 7-, 11-, & 15-tones.)

The generating interval of the linear series may vary between  $1/4$  8ve and  $4/15$  8ve. This will include  $5/19$ ,  $9/34$ ,  $14/53$ , and  $19/72$ ; all admirable tonal systems where linear  $t_6 \neq 3/2$  or its functional equivalent. (giving the 19-tone scale)

Gridiron p. 7.

2/7

KBD

7/24

SCALE

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etc.

+7

C#

1.

0

C

0/24.

-7

Cb

23.

etc.

+4

D

4.

-3

D#

3.

-10

Db

2.

+8

E

8.

+1

E#

7.

-6

Eb

6.

-13

E#

5.

+5

F#

11.

-2

F

10.

-9

F#

9.

+9

G#

15.

+2

G

14.

-5

G#

13.

-12

Gb

12.

+6

A

18.

-1

A#

17.

-8

Ab

16.

+10

B

22.

+3

B#

21.

-4

Bb

20.

-11

B#

19.

+7

C#

1.

0

C

24/0.

-7

C#

23.

2/7 KBD, 11/36 SCALE, Fibonacci Series

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0  
(1,2)  
8  
0/36.

+1  
5  
11.

+2  
3  
22.

0  
8  
0/36.

233

144

89

55

0/36.

31.

987

610

377

28.

233

6765

4181

2584

20.

1597

31.

26.

28657

17711

12.

10946

23.

6765

196418

121393

75025

15.

46368

26.

21.

832040

514229

7.

317811

18.

196418

-28

24.

3524578

35.

2178309

10.

1346269

21.

16.

24157817

14930352

2.

9227465

13.

5702887

-35

19

102334155

30

63245986

5.

39088169

16

165580141

102334155

63245986

39088169

-35

(11.)

(22.)

33.

8.

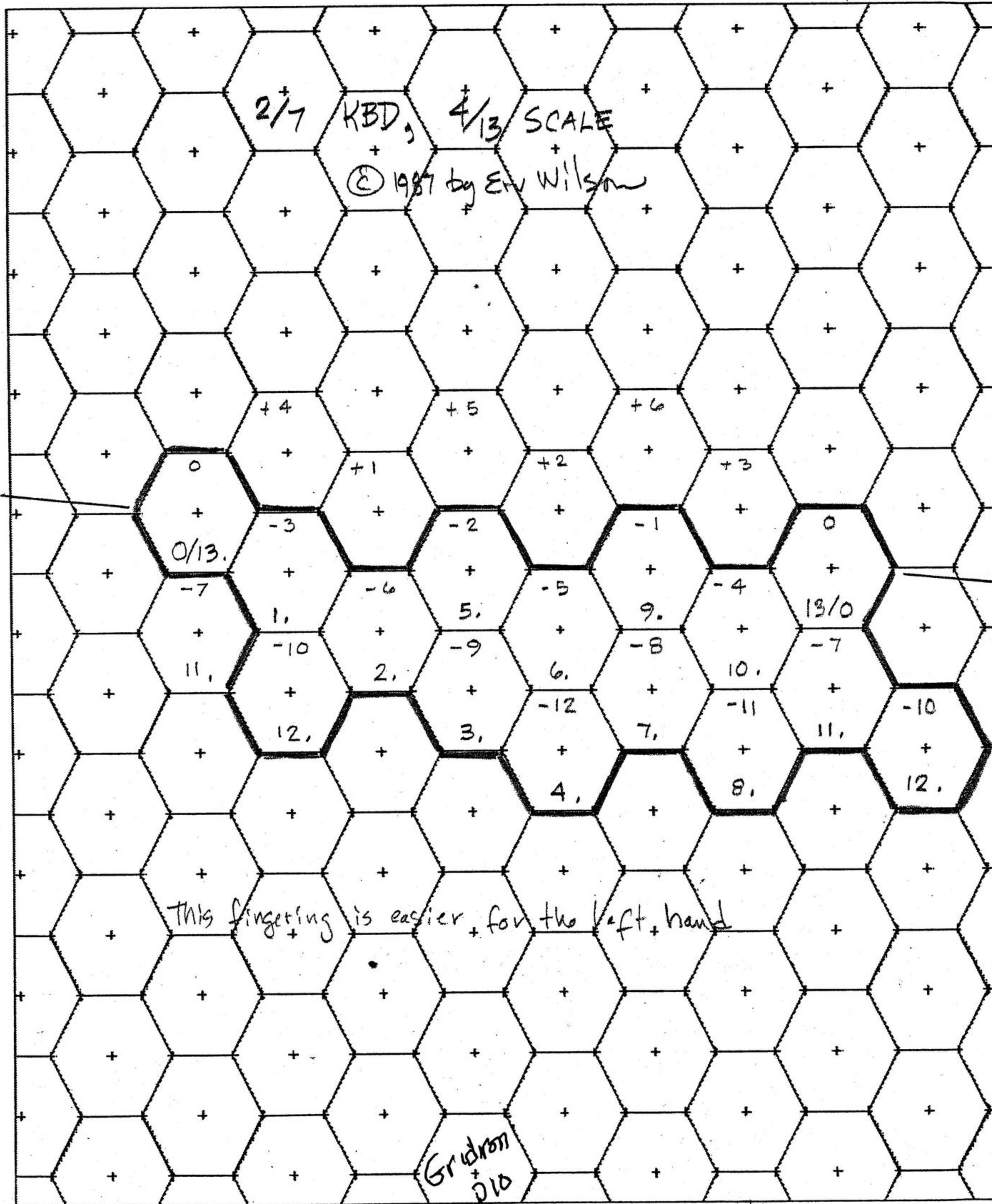
165580141

(11.)

Converges on 1.618033989

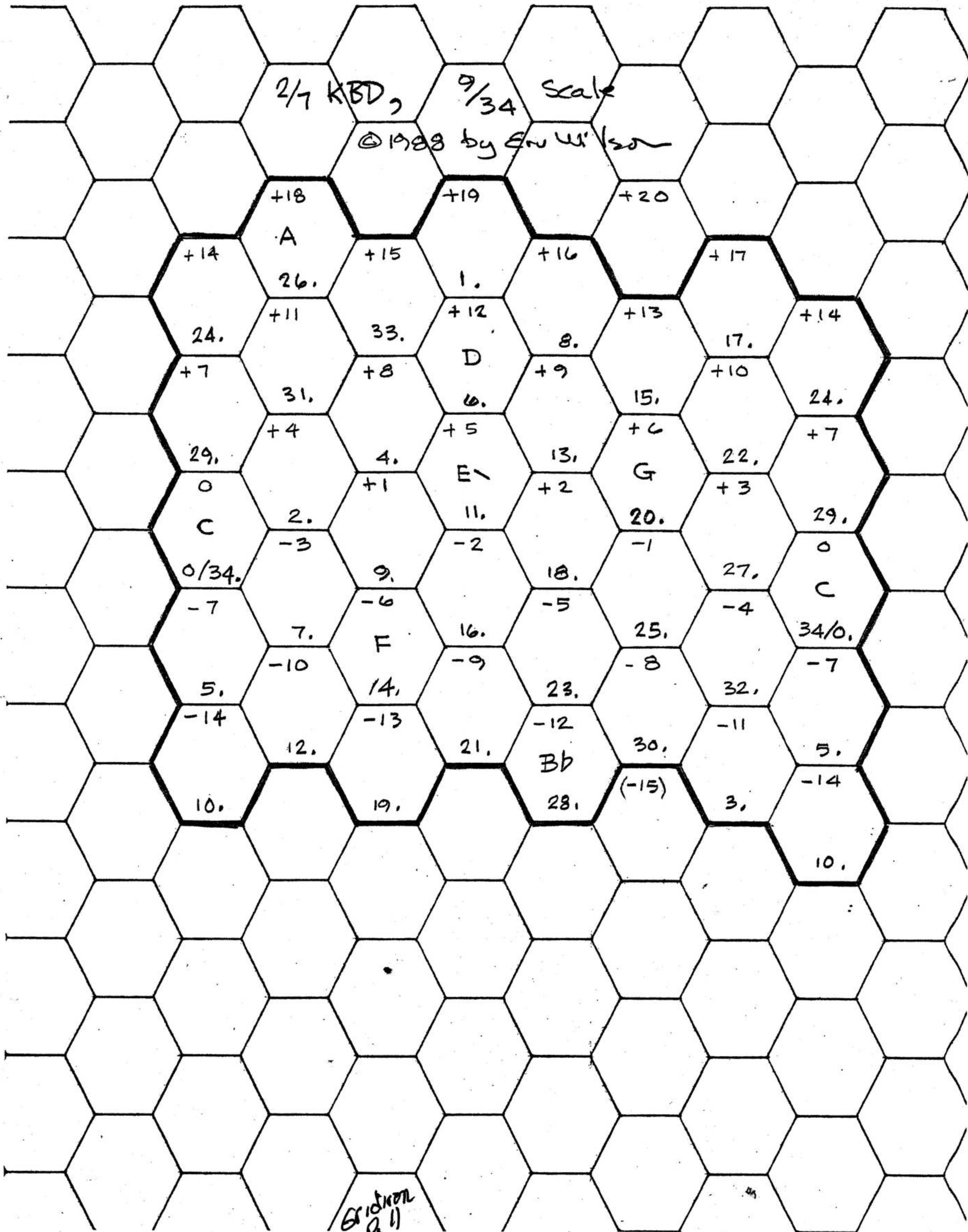
Ref: Golden Times, Lorne Temes, Mathematics & Physics, 1976  
Univ. of Toronto

Gridiron  
p. 9



2/7 KBD, 9/34 Scale

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+18

+19

+20

+14

+15

+16

+17

24.

+11

33.

+12

+13

+14

+7

+8

+9

+10

31.

6.

15.

24.

29.

+4

4.

+5

13.

+6

22.

+7

0

+1

E

+2

G

+3

C

2.

11.

20.

29.

0/34.

-3

9.

-2

18.

-1

27.

0

-7

-6

-5

-4

-4

0

5.

7.

F

16.

25.

34/0.

-14

-10

14.

-9

23.

-8

32.

-7

10.

12.

-13

21.

-12

30.

-11

5.

Bb

(-15)

3.

-14

28.

19.

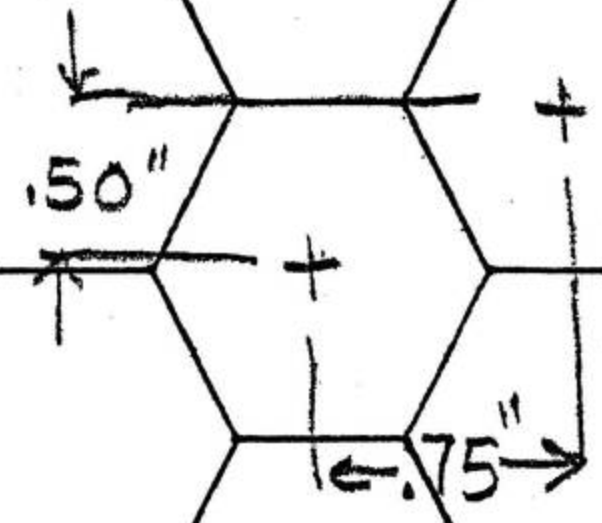
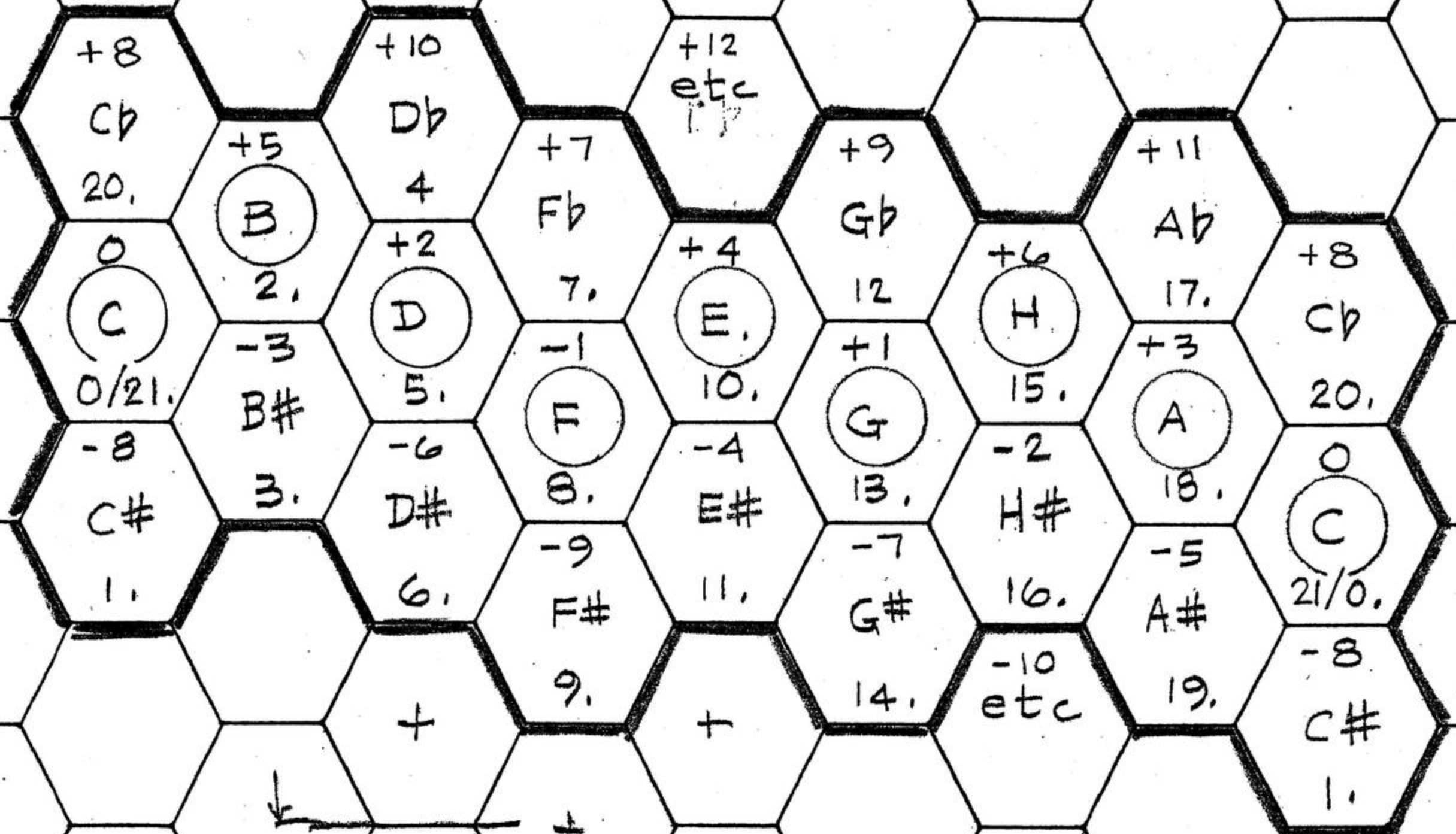
10.

Eric Wilson  
R 11



~~KBD~~ ~~SCALE~~  
2/00

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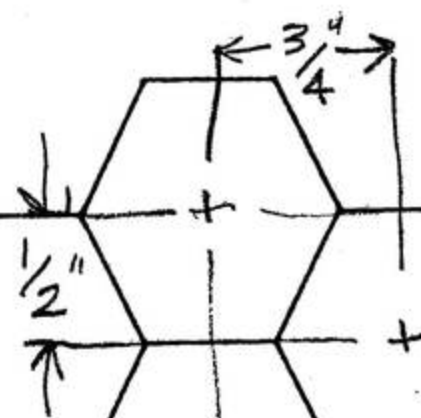
2/5

KBD

5/12

SCALE

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etc

+11

E#

+10

A#

+10

A#

+9

D#

+8

G#

+7

C#

+6

F#

+5

B

+5

B

+4

E

+3

A

+2

+2

D

+1

G

0

C

11.

0

C

-1

F

-2

Bb

-3

-3

Eb

-4

Ab

-5

Db

Eb

Ab

Db

-5

Db

-6

Gb

-7

Cb

-8

-8

Fb

-9

Bbb

-10

Ebb

1.

-10

Ebb

-11

Abb

-9

9.

11.

etc.

2.

B

A

C

Bb

E

G

F

Gb

D

Eb

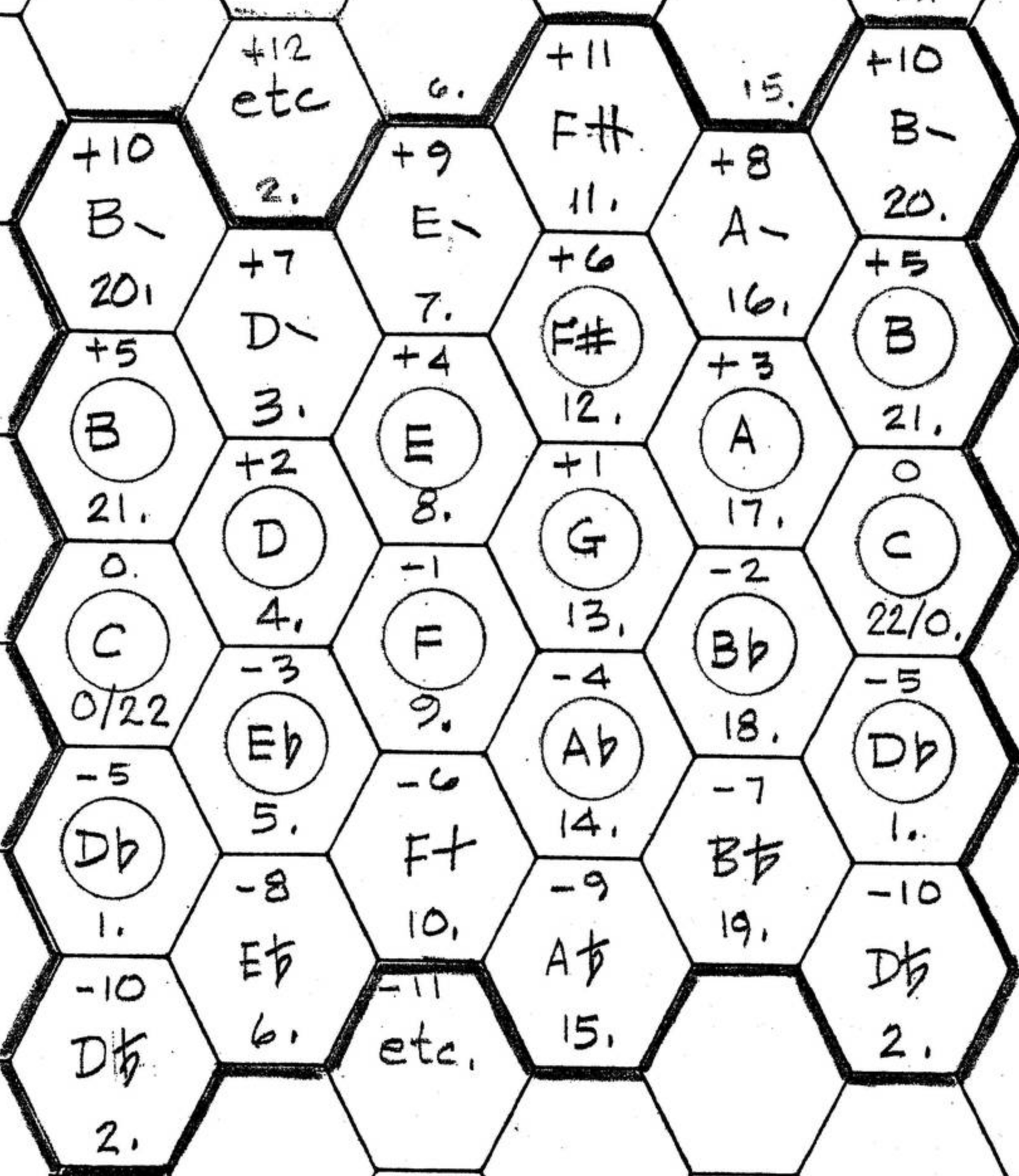
Gb

Ebb

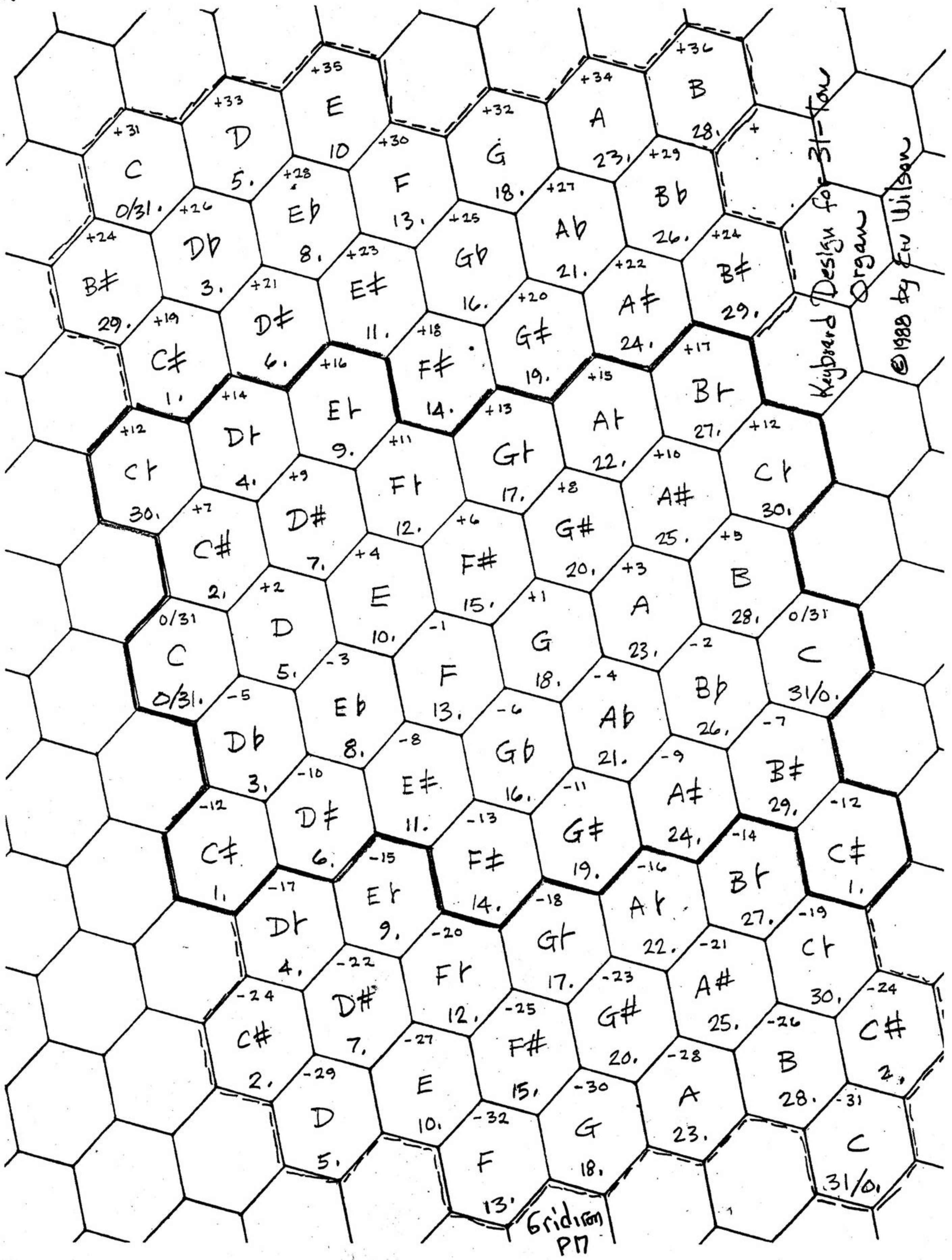
Gridiron  
P. 14

2/5 KBD 1 9/22 SCALE

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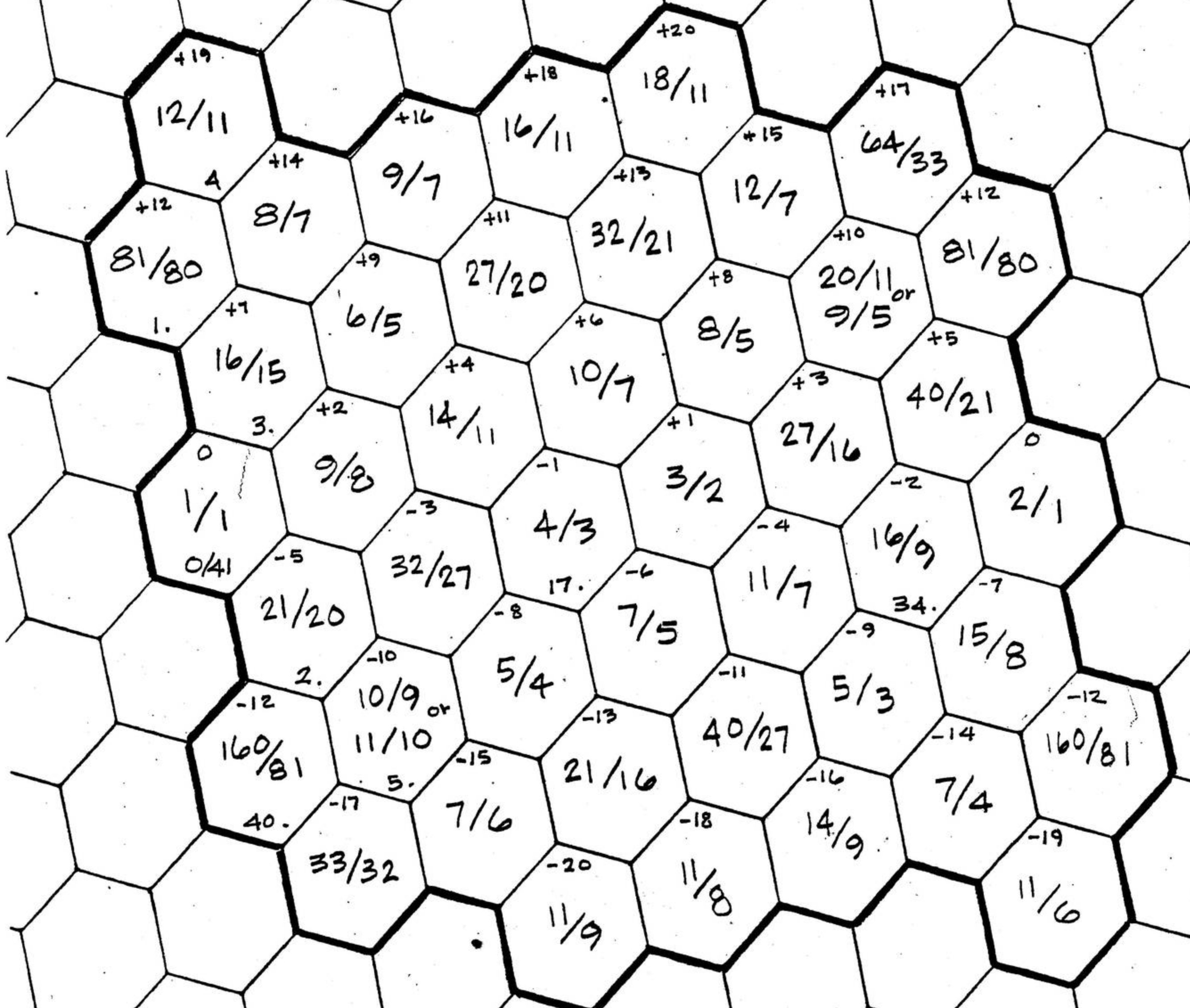


Keyboard Design for 31-Tone Organ

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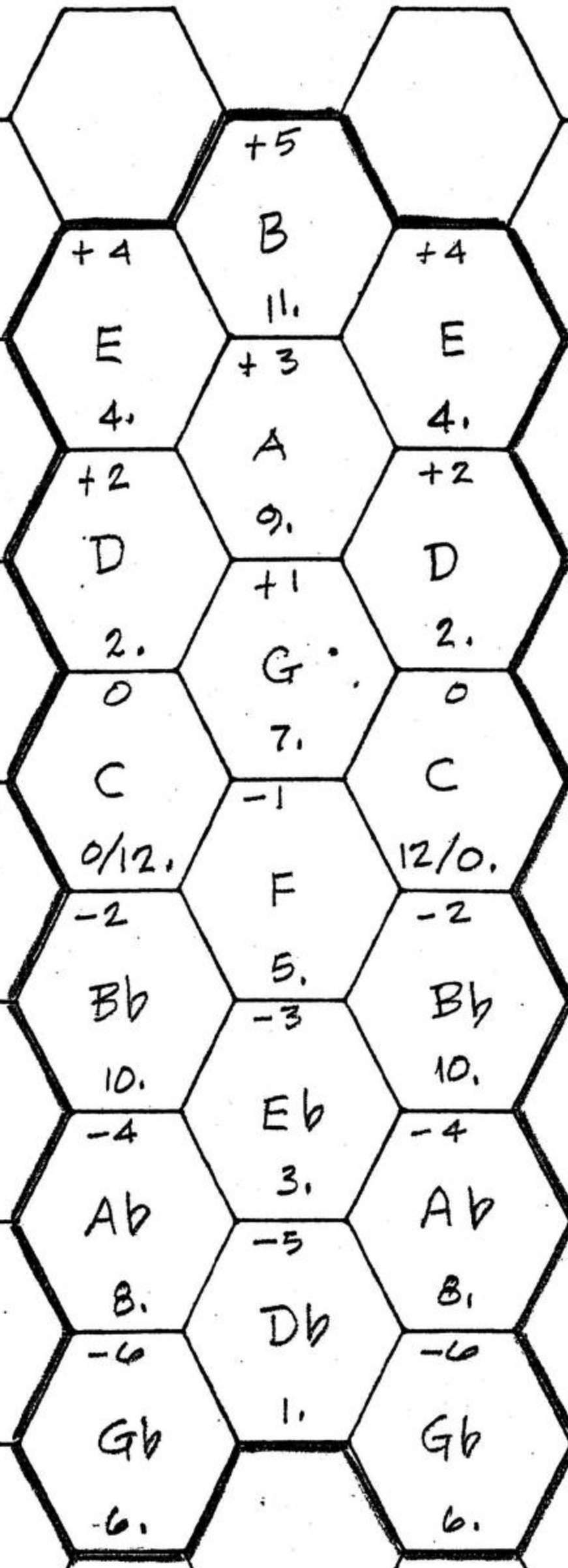
Gridiron P17

Keyboard for Harry Partch's 43-tone Scale  
First published in Xenharmonicon 3, Spring 1975  
Issued 1988 by Erv Wilson

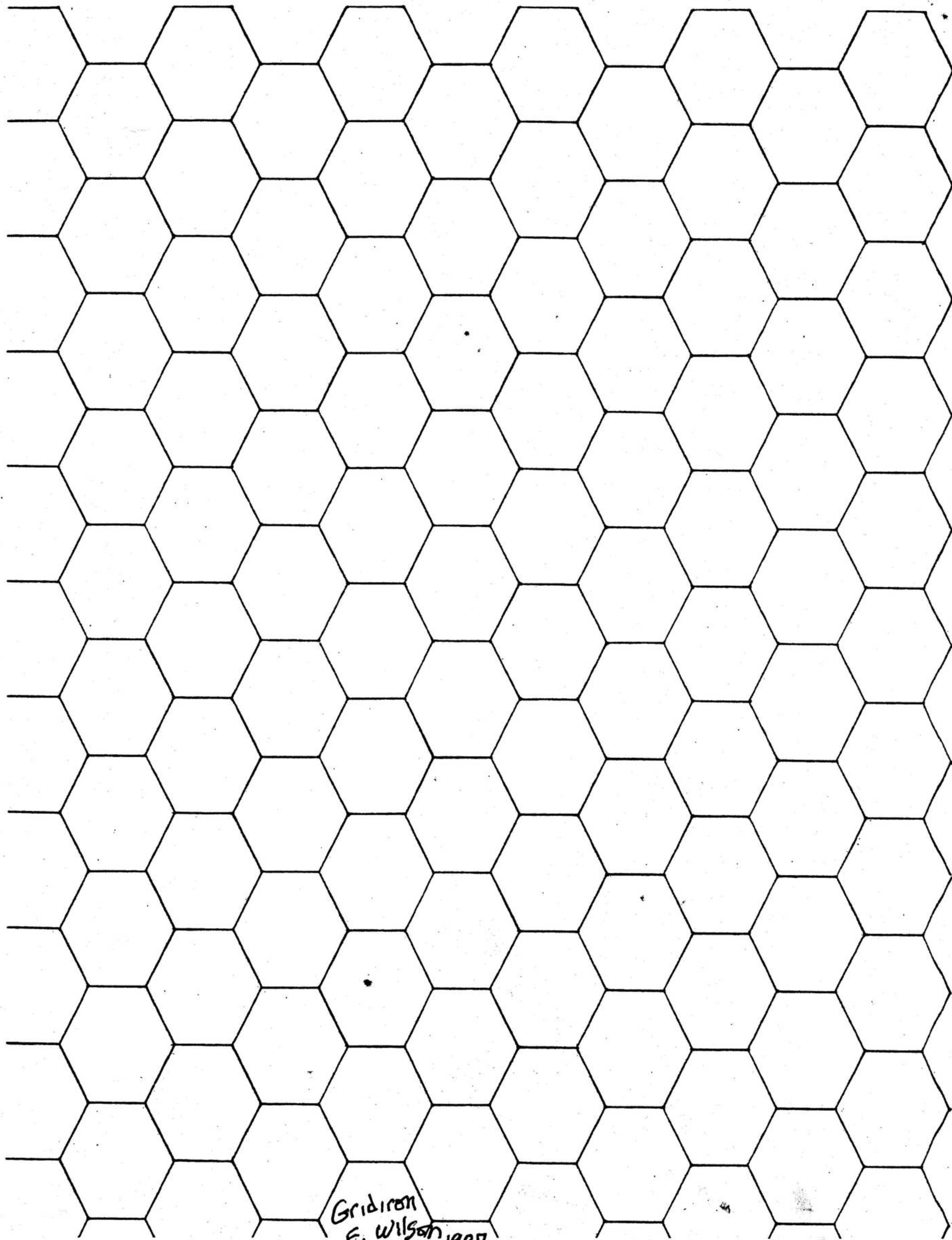


Girdiron  
p. 18

1/2 KBD, 5/12 Scale  
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Gridiron  
p. 19



Gridiron  
E. Wilson  
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