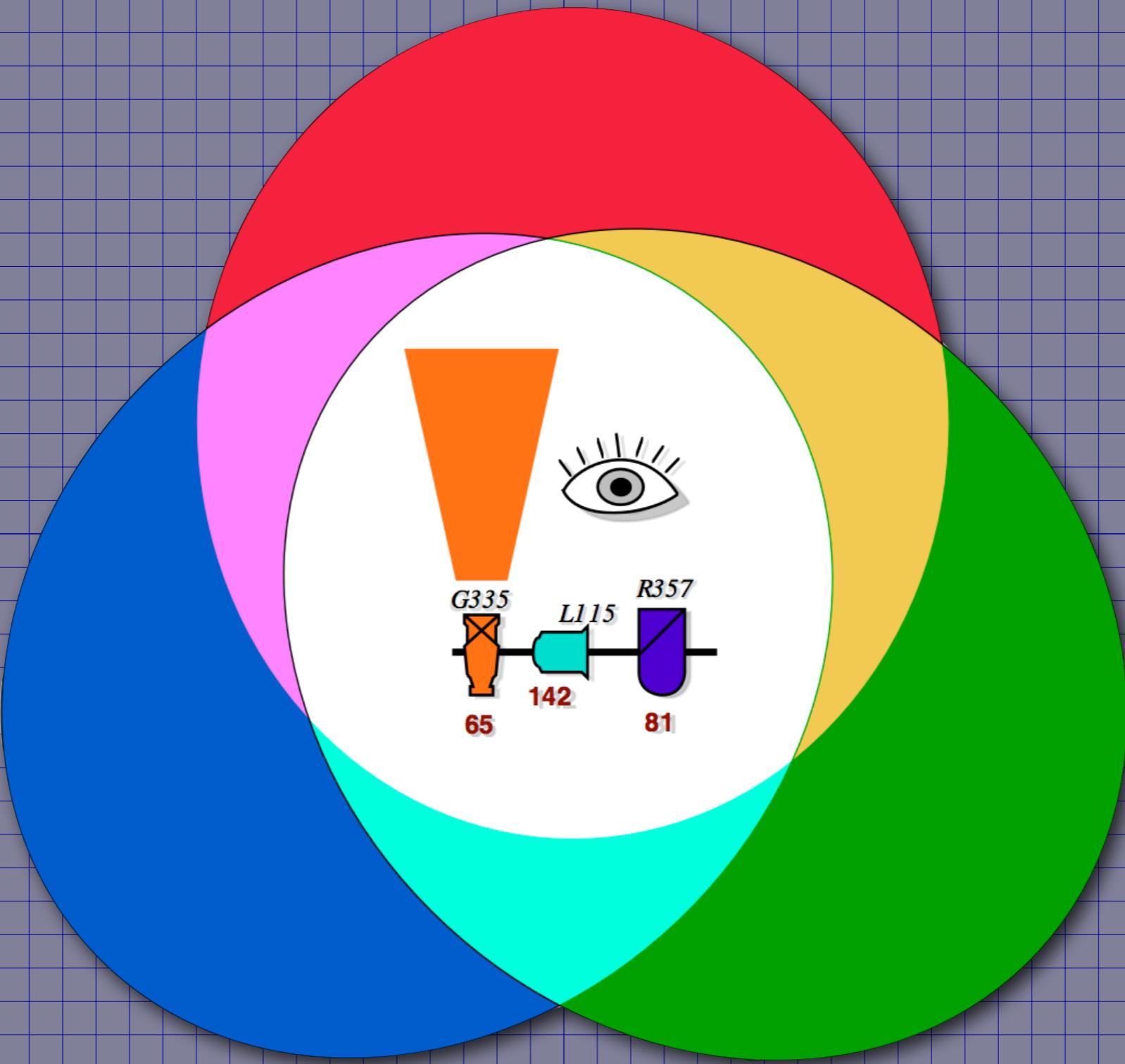


# Circuits



IATSE 728 Workshop 2020

©2020

# Create a new Layer.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

untitled Views x:  
y:

Instrument Schedule Positions Side Front Channel List

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

2nd Electric R64 R64 12 12 10 11 11 4 3 8 7 6 5 L201 9 2 1 FOH R55 R05 18 15 17 14 16 13

1st Electric

FOH

Key Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Light Plot

My Really Big Show

Venue:  
Performing Arts Center

Designer:  
C. Heintz

11/9/18

1 2 3

1

2

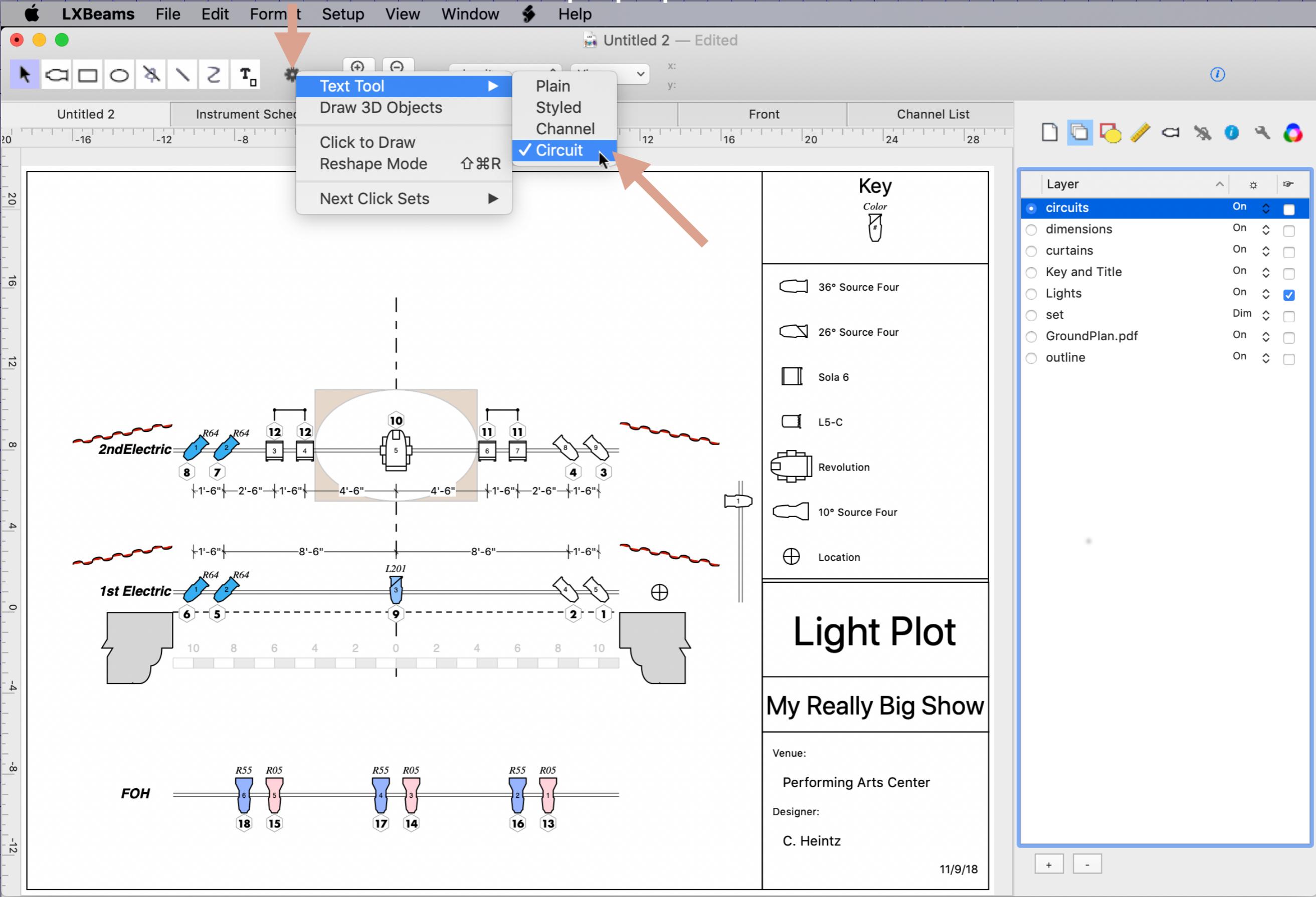
3

+

-

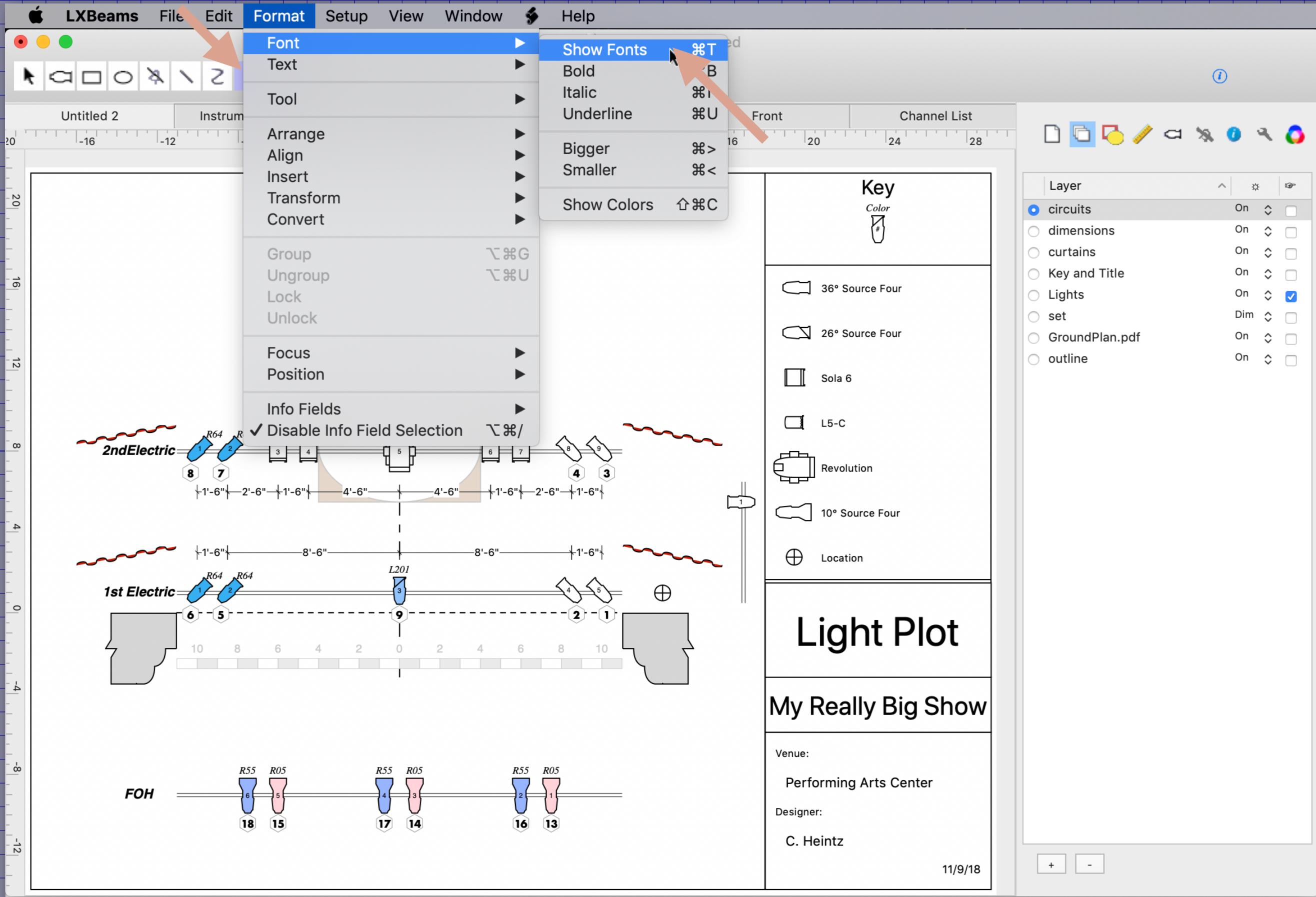
Name it "circuits".

In the Toolbar, use the tools popup to set the text tool to "Circuit".



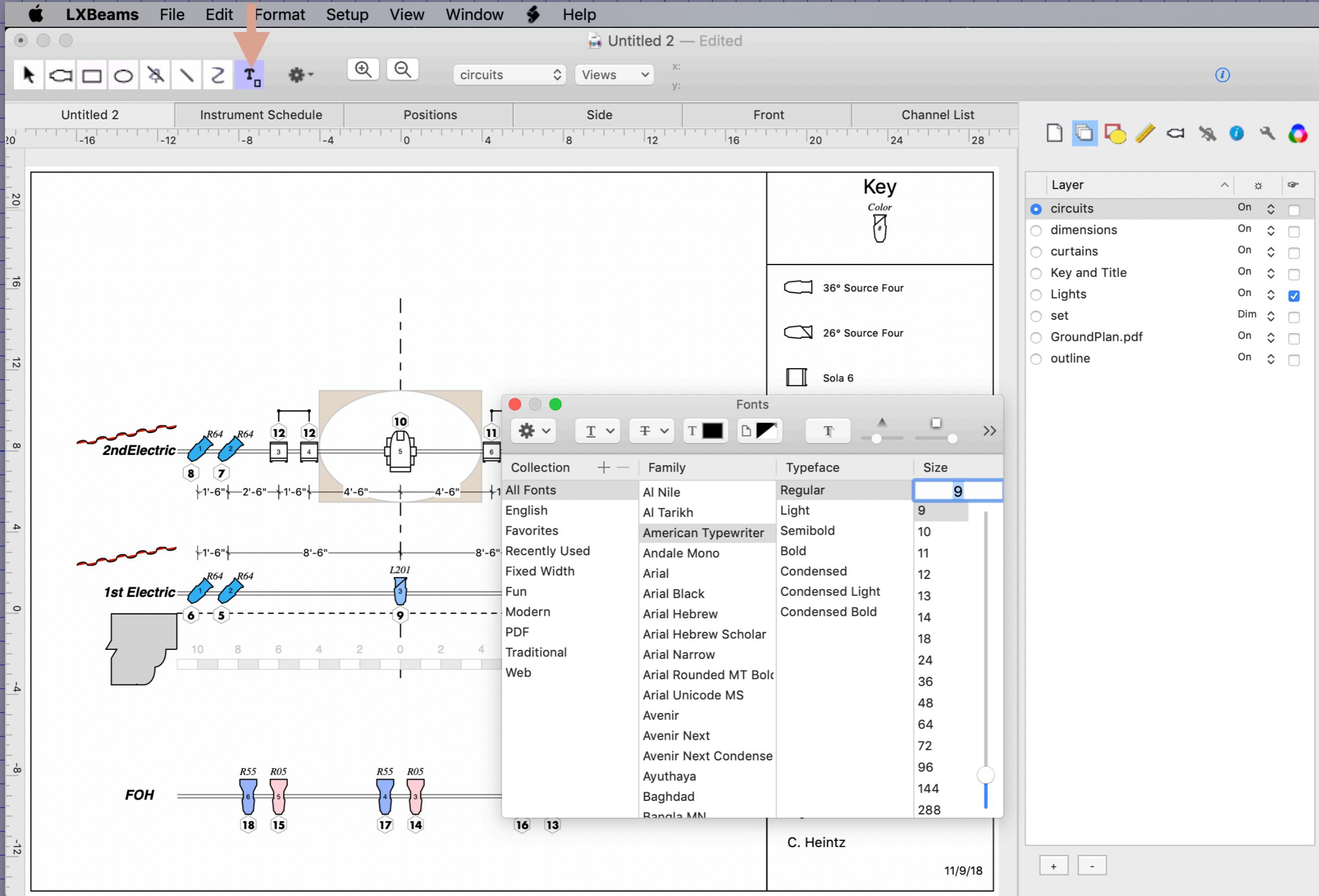
The tools popup sets optional functions of various tools.

# Select the Text Tool



Choose Format→Font→Show Fonts

# With the text tool selected, choose a font of size 9.



When the tool is selected, you are setting the font of the object you will draw.

# Choose Format→Text→Center.

LXBeams File Edit Format Setup View Window Help

Font Text Tool

Align Left ⌘{  
✓ Center ⌘|  
Align Right ⌘}  
Justified

Untitled 2 — Edited

Front Channel List

Instrument

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

2nd Electric

R64 R64

1st Electric

L201

FOH

18 15 17 14 16 13

1 2 3 4 5 6 7 8 9 4 3 2 1 9 3 2 1 6 5 4 3 2 1 18 15 17 14 16 13

1'6" 2'6" 1'6" 4'6" 1'6" 2'6" 1'6"  
8'6" 8'6" 1'6"

10 8 6 4 2 2 4 6 8 10

Key Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Light Plot

My Really Big Show

Venue:  
Performing Arts Center

Designer:  
C. Heintz

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Layer

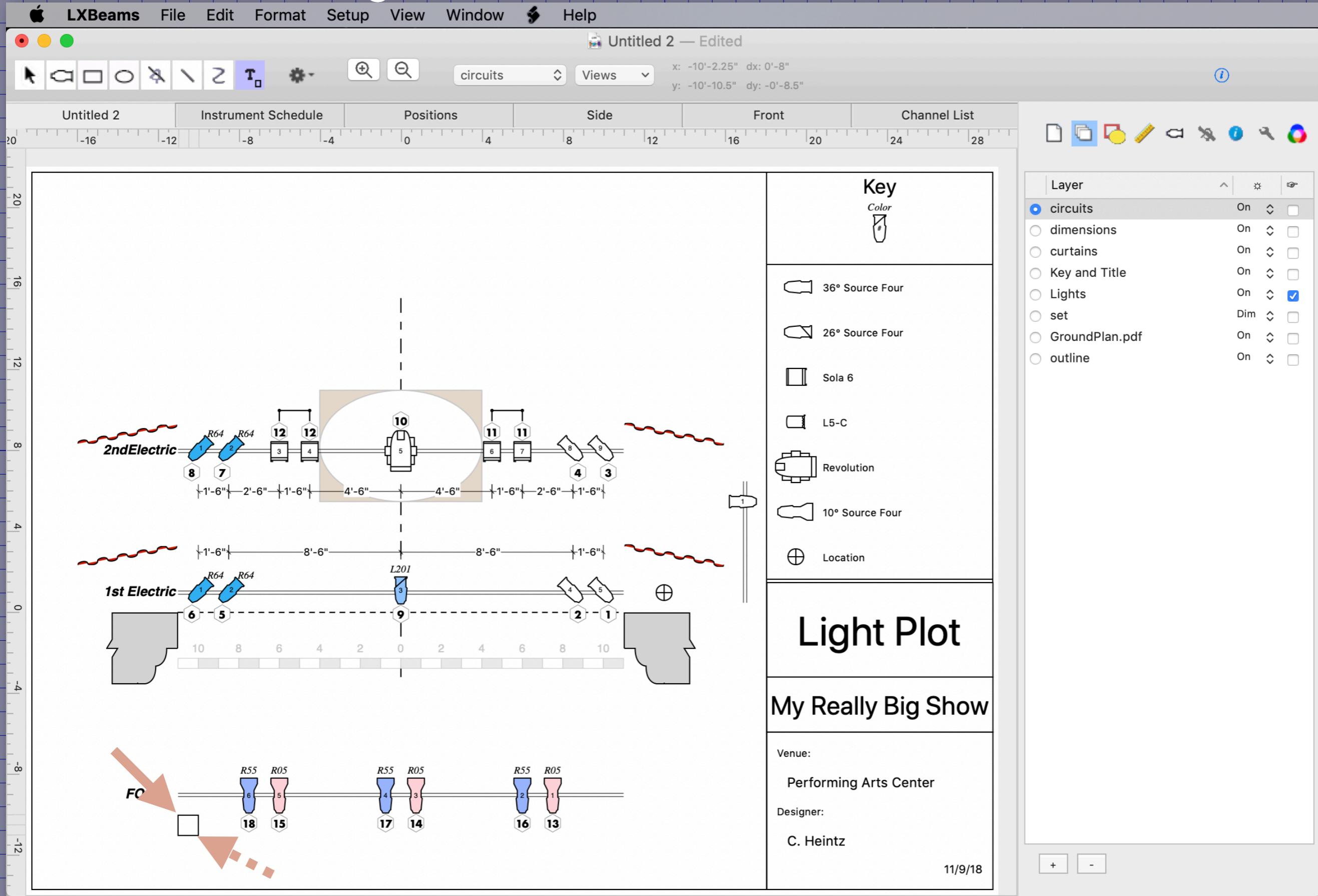
- circuits On
- dimensions On
- curtains On
- Key and Title On
- Lights On
- set Dim
- GroundPlan.pdf On
- outline On

+

-

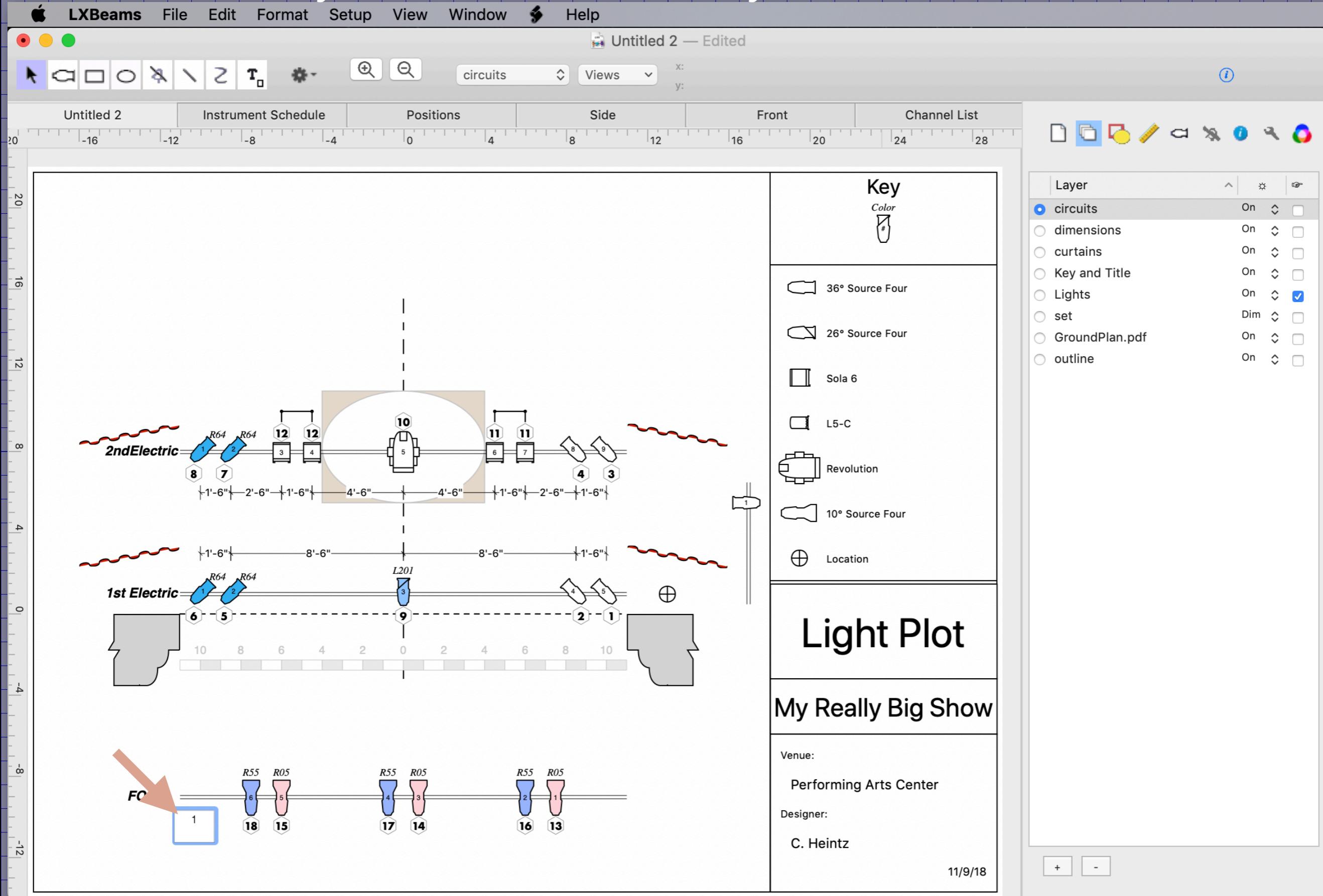
This also sets center alignment for drawing new fields.

Click and drag in the lower left to create a circuit text field.



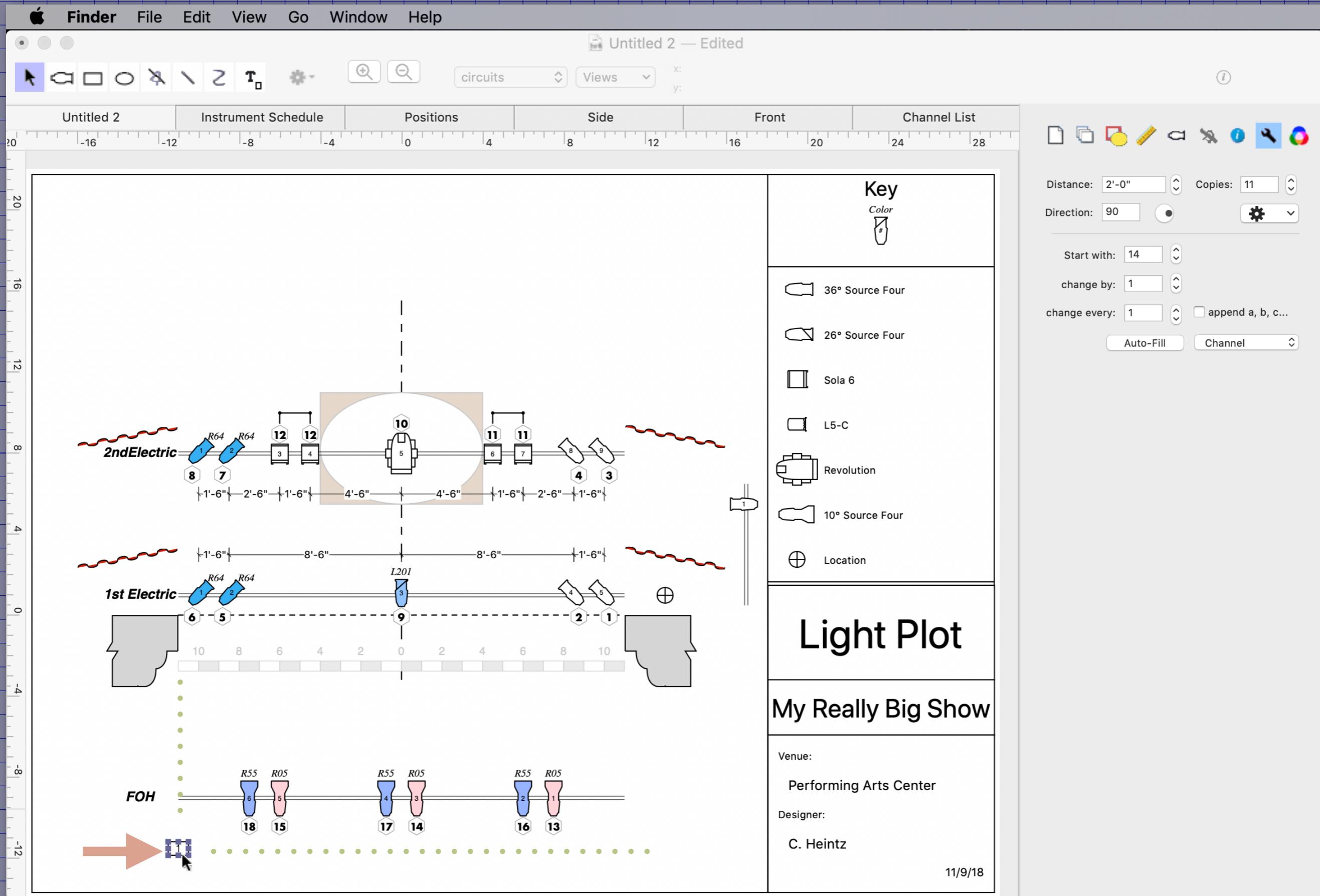
When you drag the text tool, you are creating a box for the text.

When you release the mouse, you can edit the text.



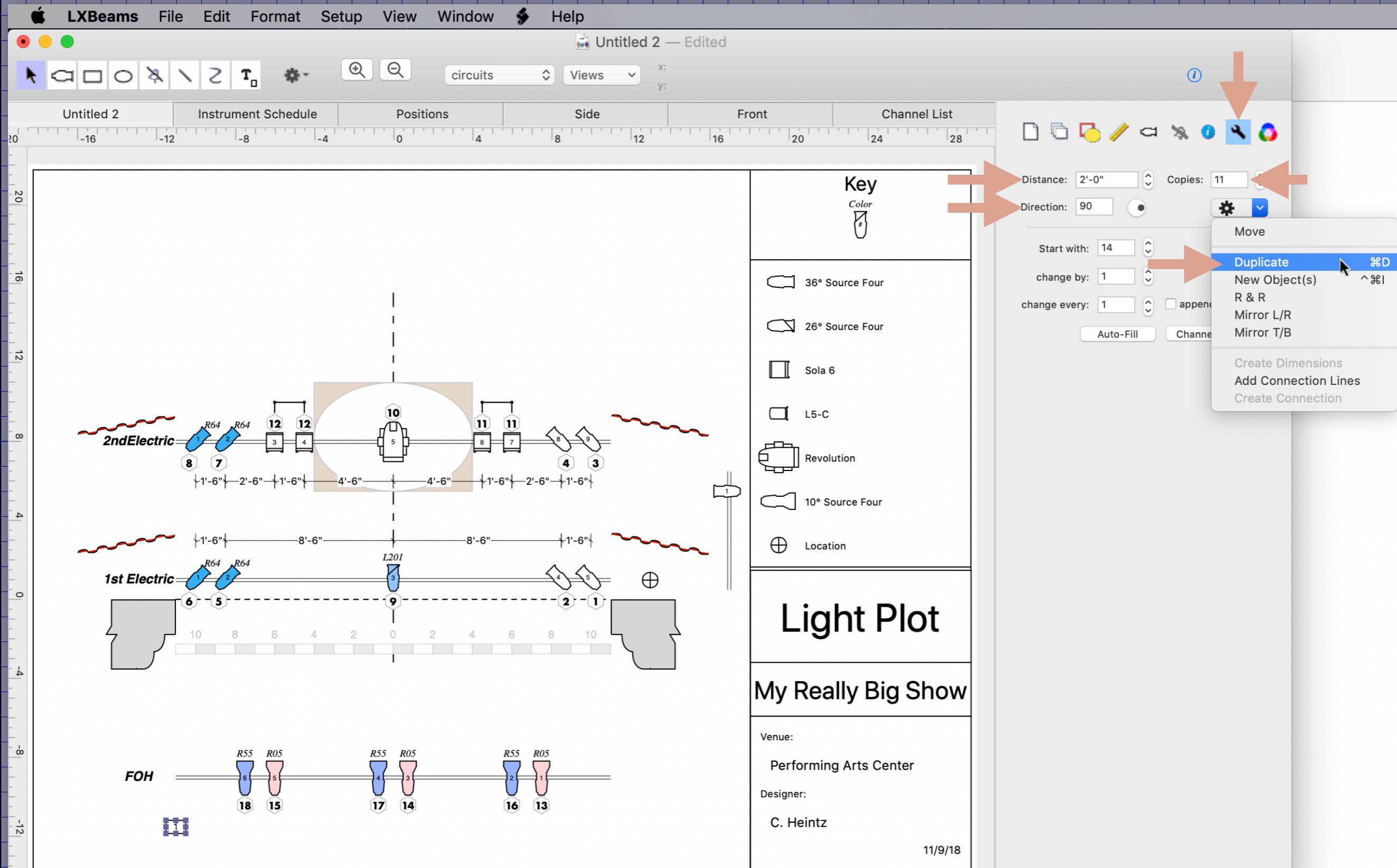
Enter "1" for circuit one.

# Resize the text field.



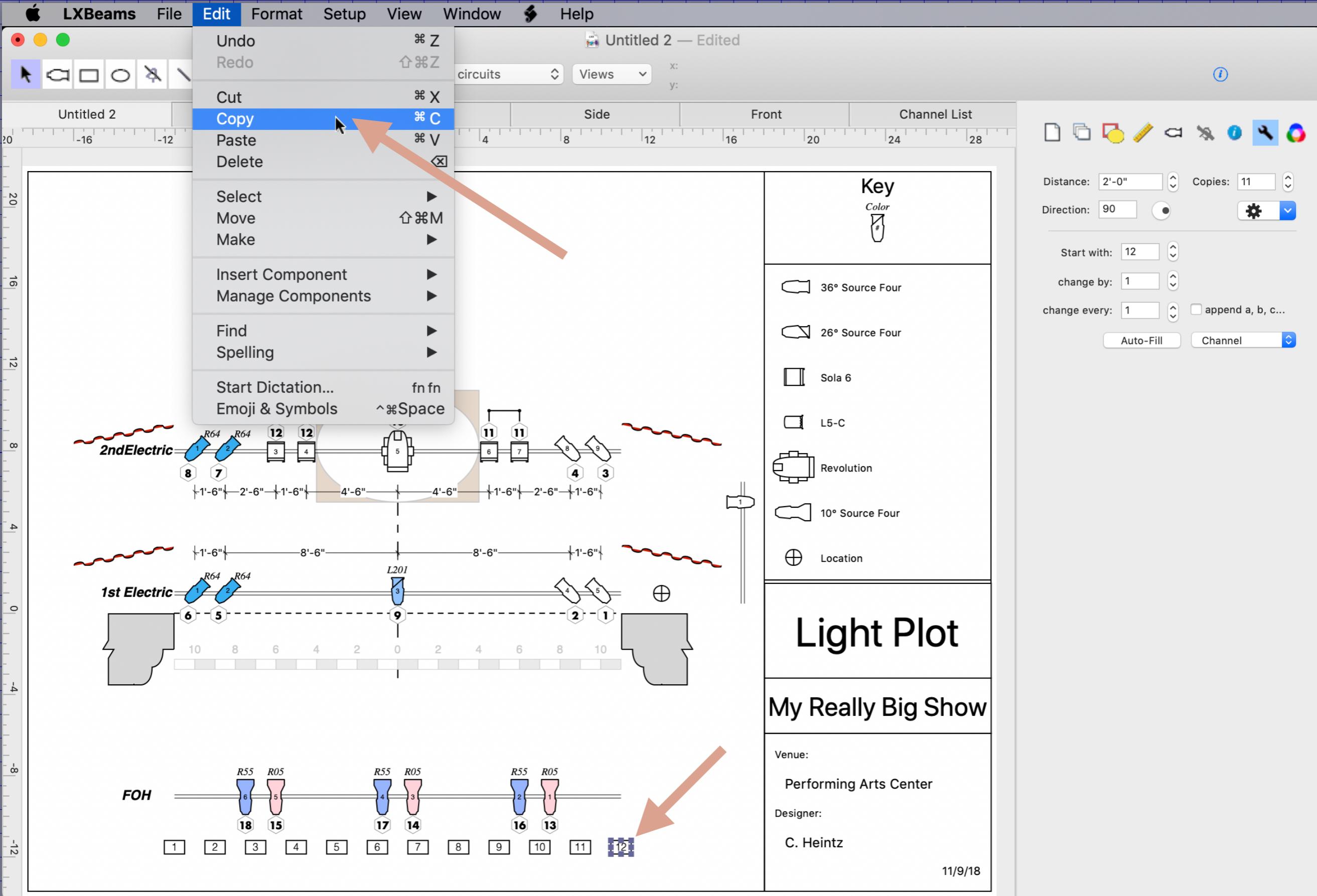
Place the text field at about 11' off of center and just below the channels of the lights.

With the field still selected, setup the tools tab before choosing Duplicate.



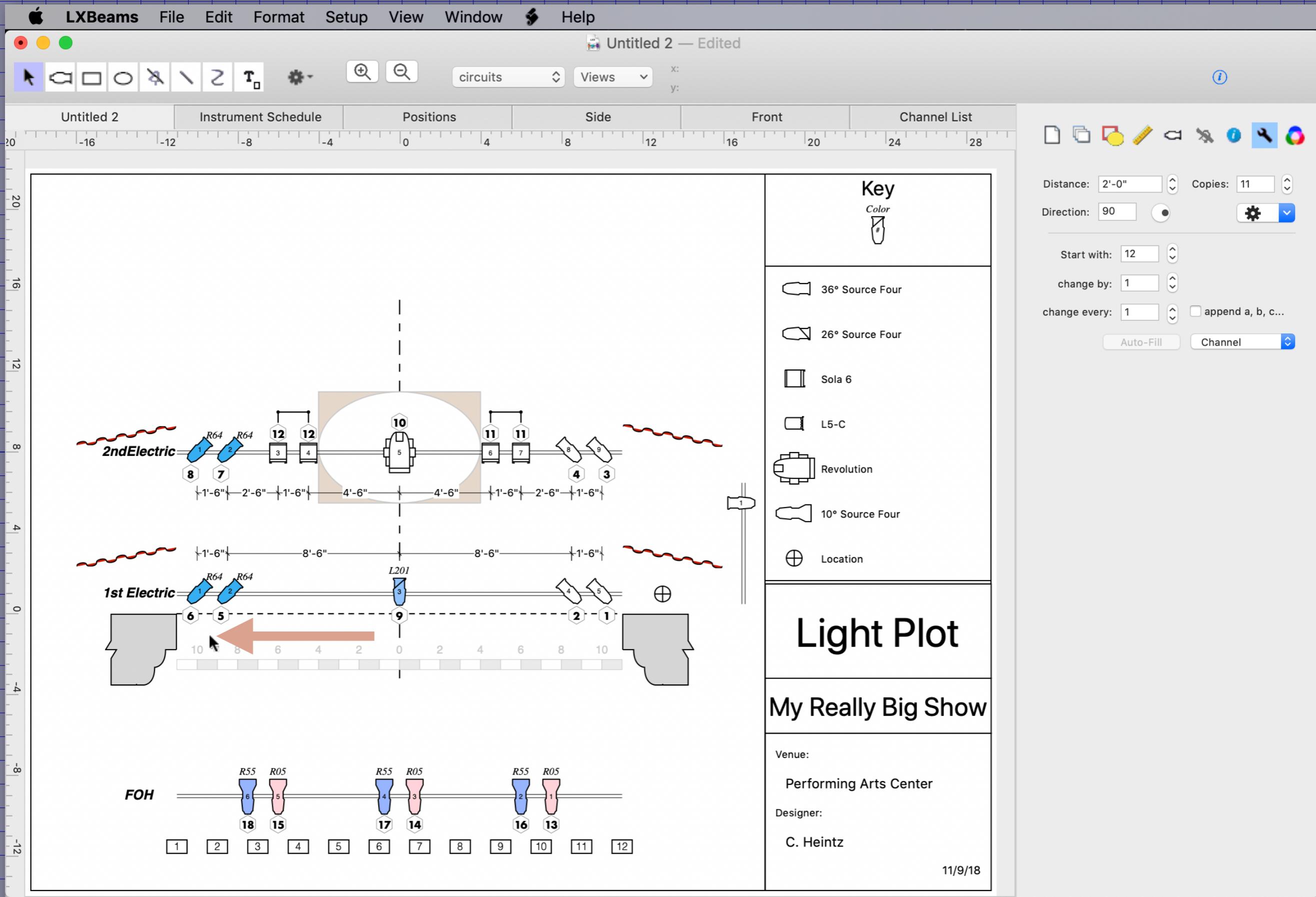
Set the spacing to 2'-0", the direction to 90, and the number of copies to 11.

# Select the last field (circuit 12) and choose Edit→Copy.



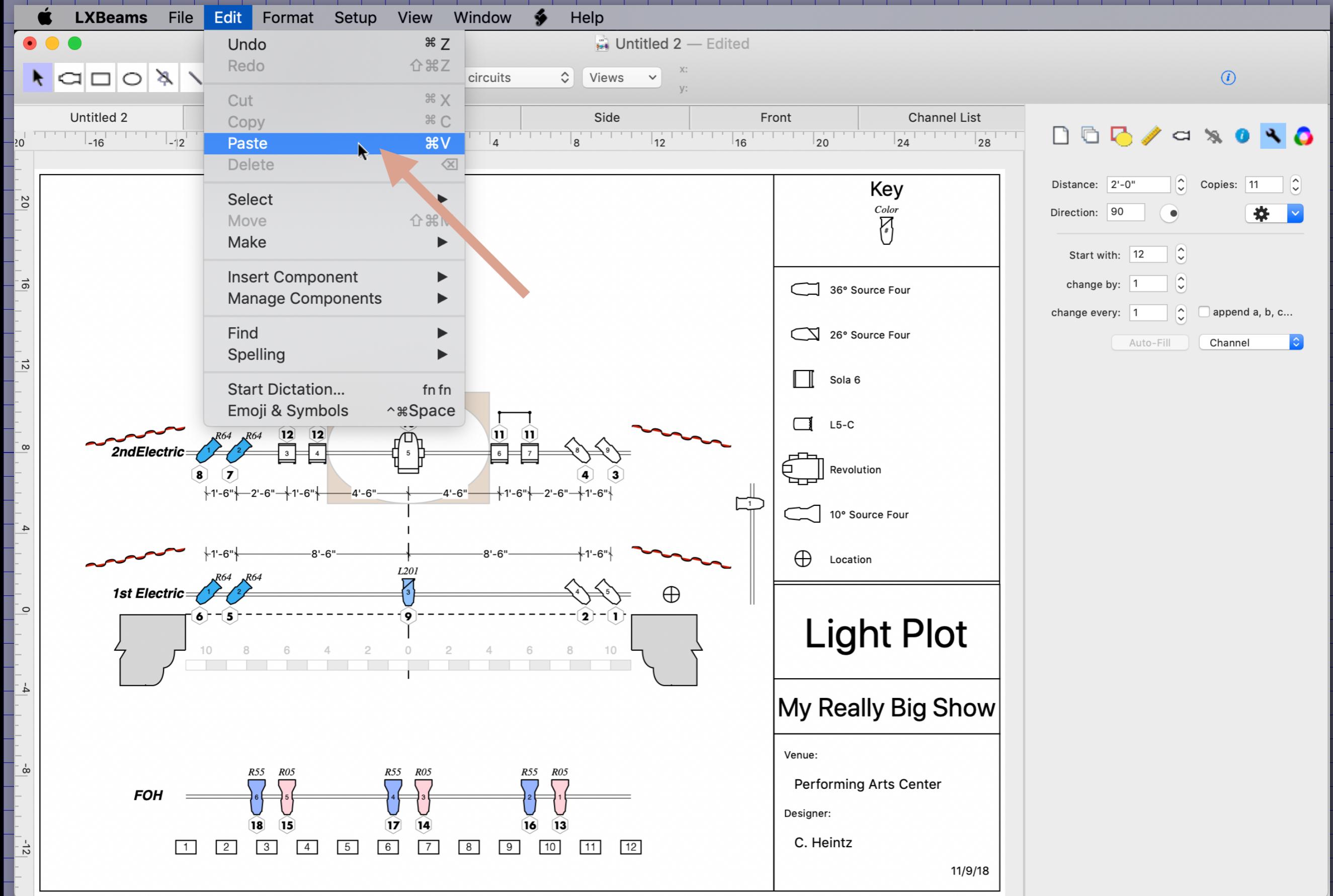
(The numbers are automatically incremented when duplicating.)

With the Arrow tool, click on a spot 9'-6" offshore and just below the channels.

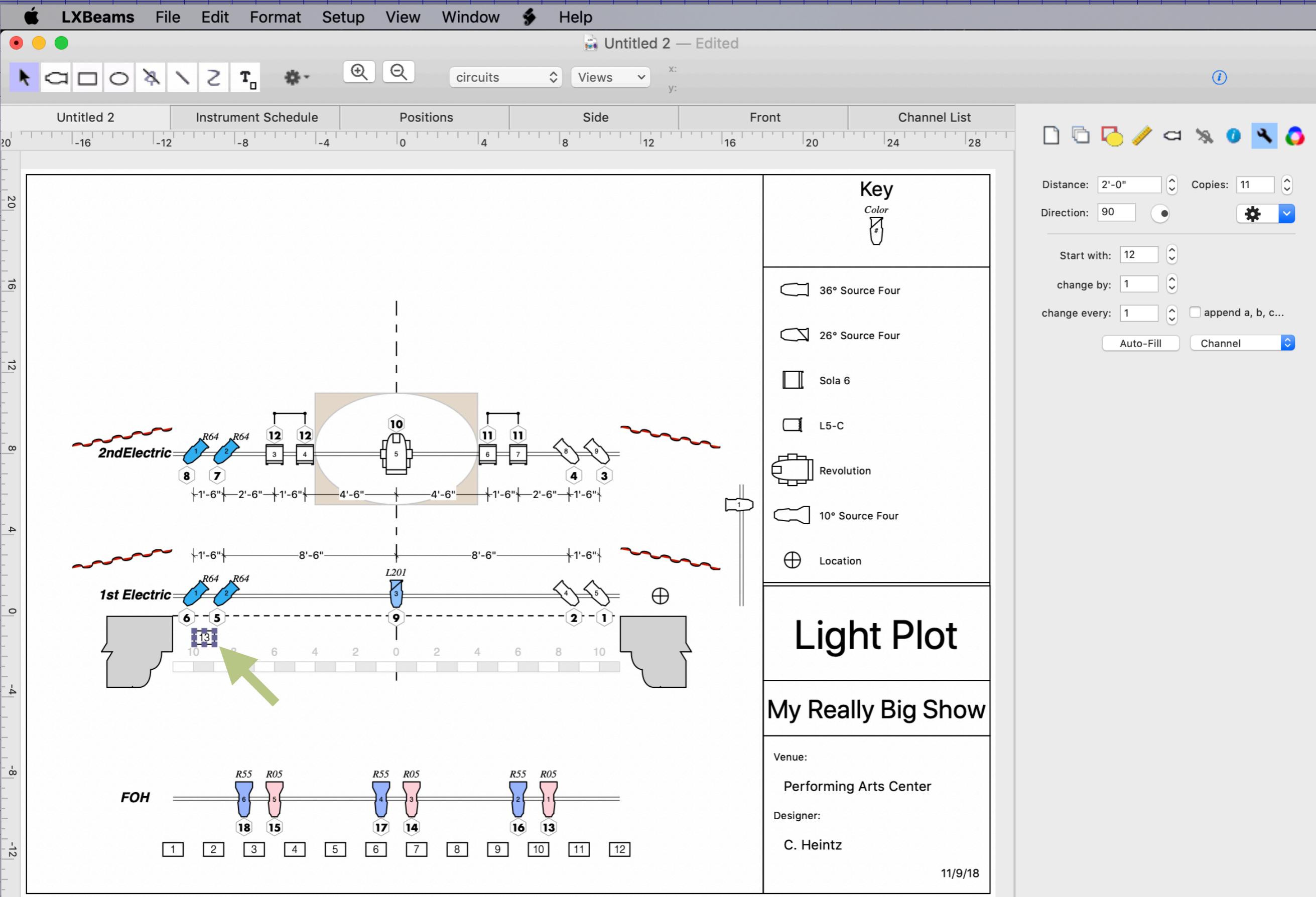


Clicking selects the location for the next step.

# Choose Edit→Paste.

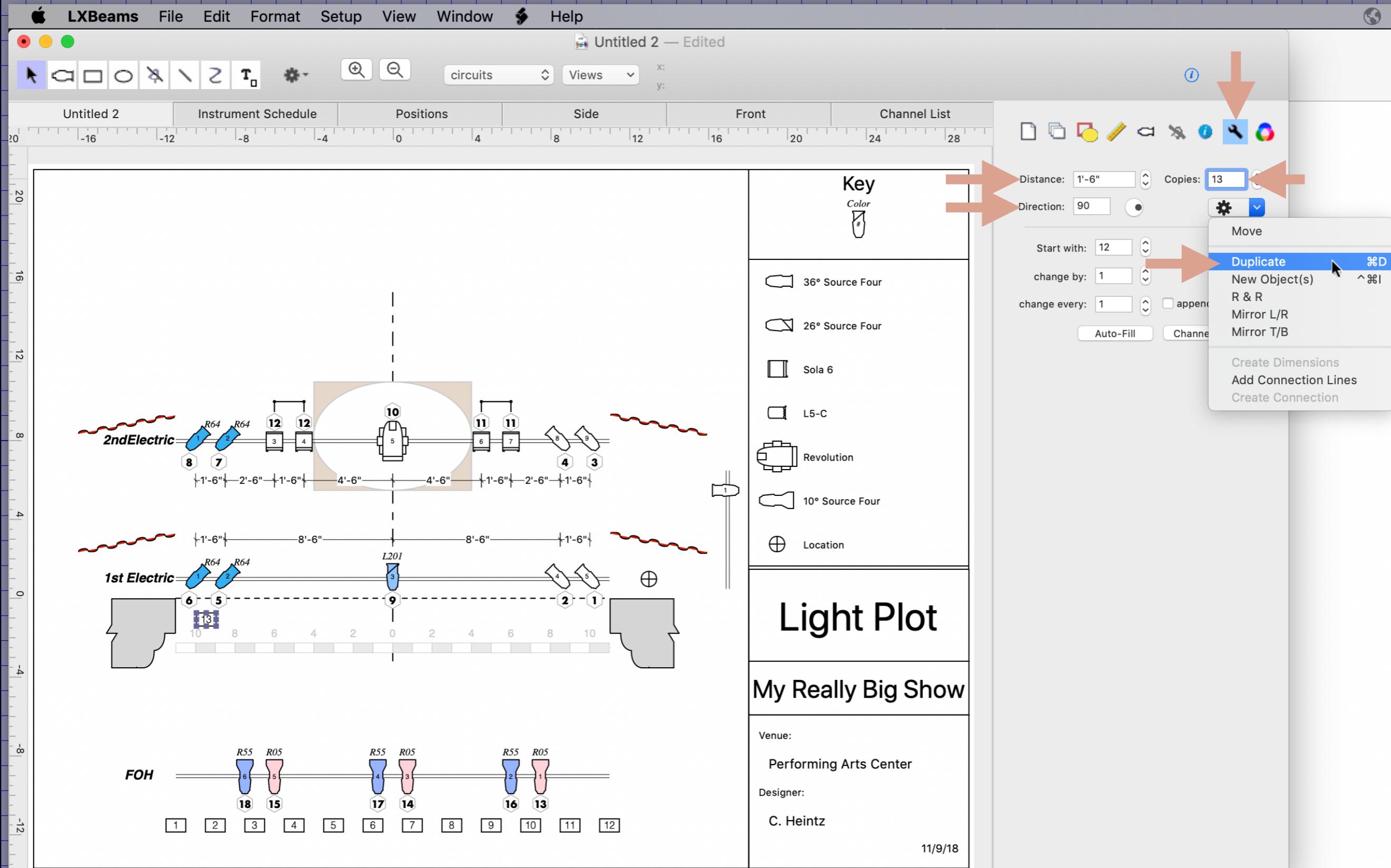


# After paste:



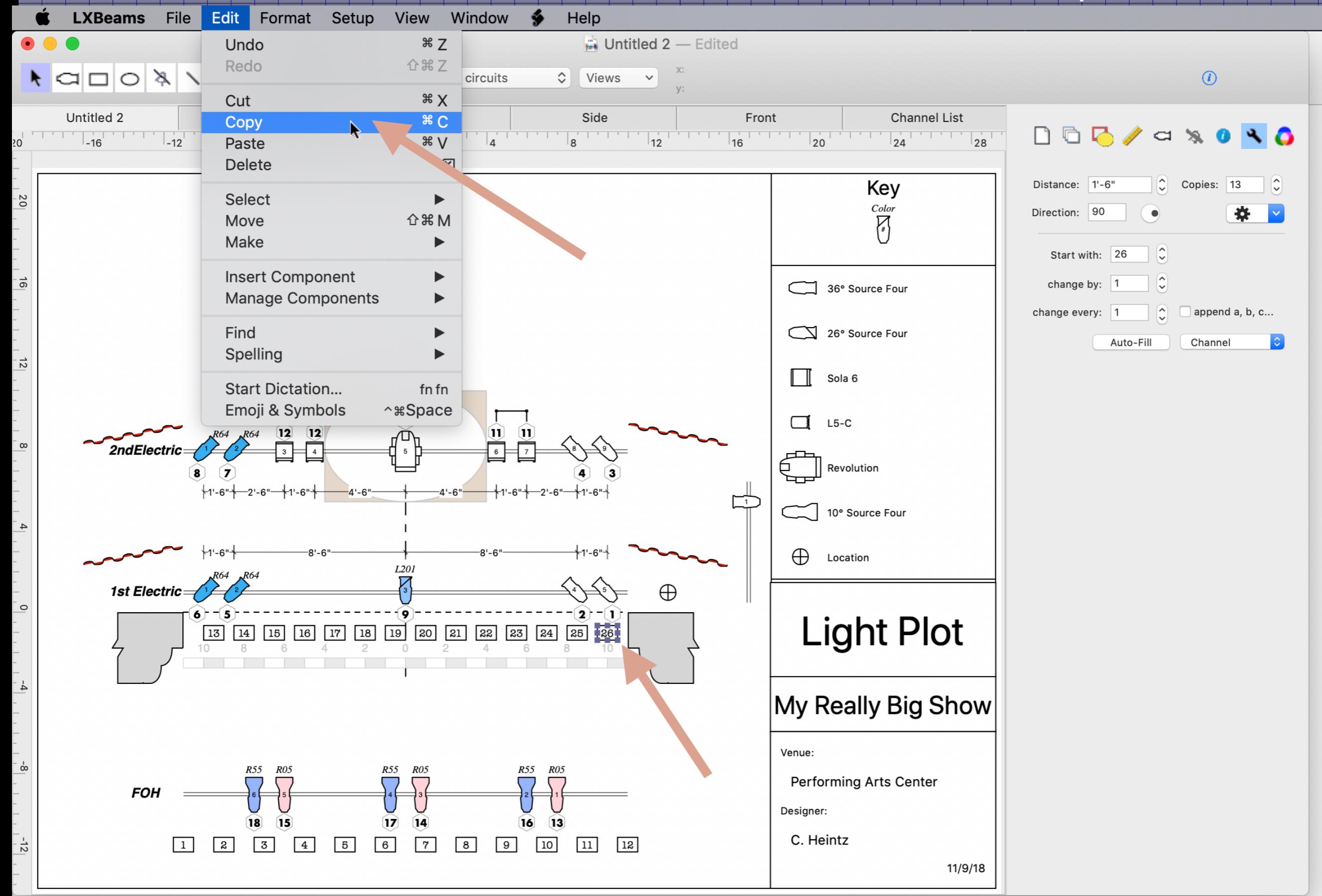
(The numbers are automatically incremented when pasting.)

With the field still selected, setup the tools tab before choosing Duplicate.



Set the spacing to 1'-6", the direction to 90, and the number of copies to 13.

Select the last field (circuit 26) and choose Edit→Copy.



With the Arrow tool, click on a spot 9'-6" offstage for pasting the copy.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

circuits Views x: -9'-6" y: 11'-6"

Instrument Schedule Positions Side Front Channel List

Untitled 2 -16 -8 0 4 8 12 16 20 24 28

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

Key Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Distance: 1'-6" Copies: 13

Direction: 90

Start with: 26 change by: 1 change every: 1  append a, b, c...

Auto-Fill Channel

Light Plot

My Really Big Show

Venue:  
Performing Arts Center

Designer:  
C. Heintz

11/9/18

2nd Electric

R64 R64

12 12

8 7

1'6" 2'6" 1'6" 4'6" 1'6" 2'6" 1'6"

1st Electric

R64 R64

13 14 15 16 17 18 19 20 21 22 23 24 25 26

10 8 6 4 2 2 2 4 6 8 10

L201

9

1'6" 8'6" 8'6" 1'6"

FOH

R55 R05

6 5

18 15

1 2 3 4 5 6 7 8 9 10 11 12

R55 R05

4 3

17 14

1 2 3 4 5 6 7 8 9 10 11 12

R55 R05

2 1

16 13

1 2 3 4 5 6 7 8 9 10 11 12

Clicking selects the location for the following paste.

# Choose Edit→Paste.

LXBeams

File Edit Format Setup View Window Help

Untitled 2

circuits Views x: y:

Side Front Channel List

Distance: 1'-6" Copies: 13

Direction: 90 Start with: 26

change by: 1 change every: 1 append a, b, c...

Auto-Fill Channel

Key

- Color #
- 36° Source Four
- 26° Source Four
- Sola 6
- L5-C
- Revolution
- 10° Source Four
- Location

Light Plot

My Really Big Show

Venue:  
Designer:  
Performing Arts Center  
C. Heintz

11/9/18

Undo ⌘ Z

Redo ⇧ ⌘ Z

Cut ⌘ X

Copy ⌘ C

Paste ⌘ V

Delete ⌘ X

Select

Move

Make

Insert Component

Manage Components

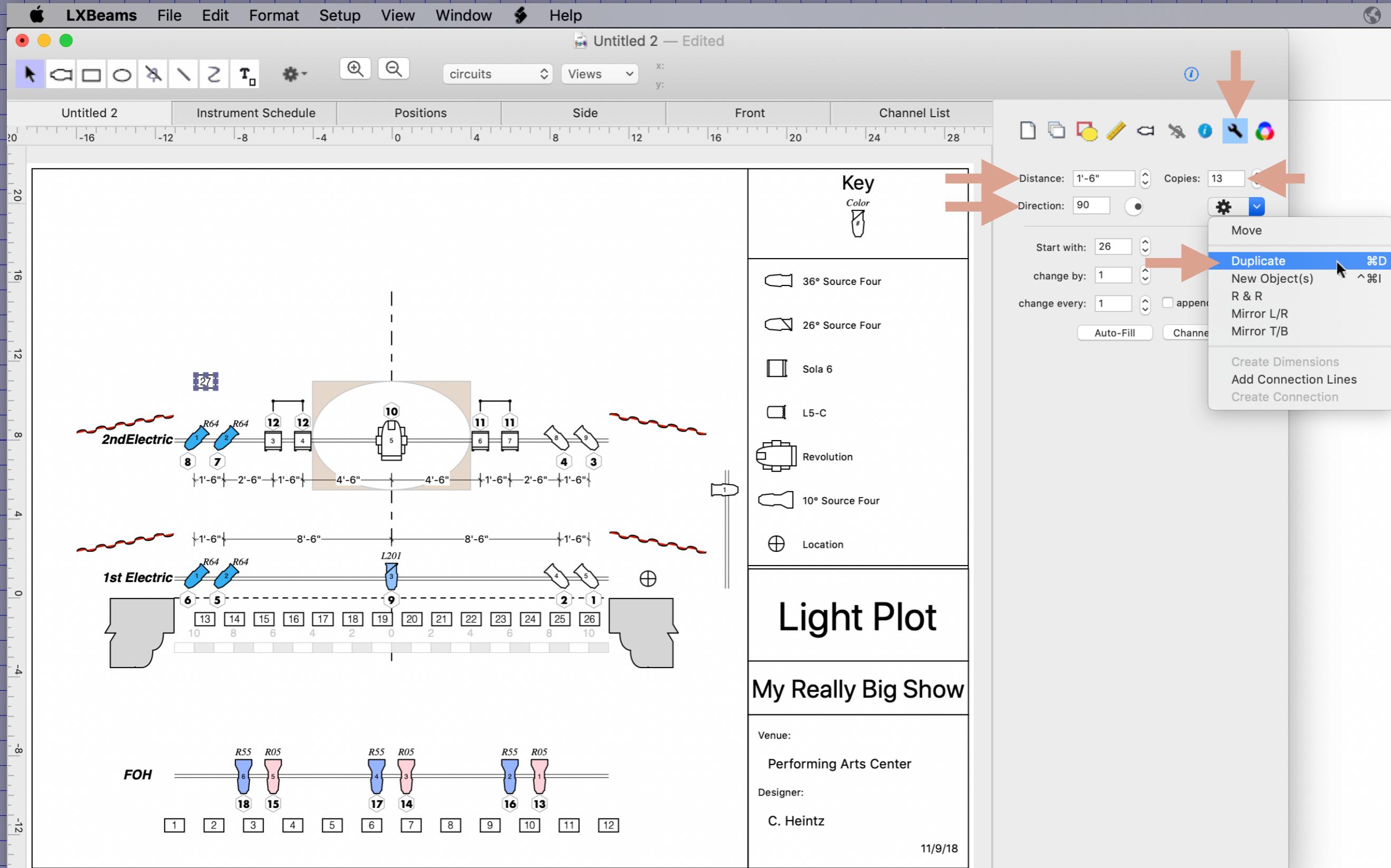
Find

Spelling

Start Dictation... fn fn

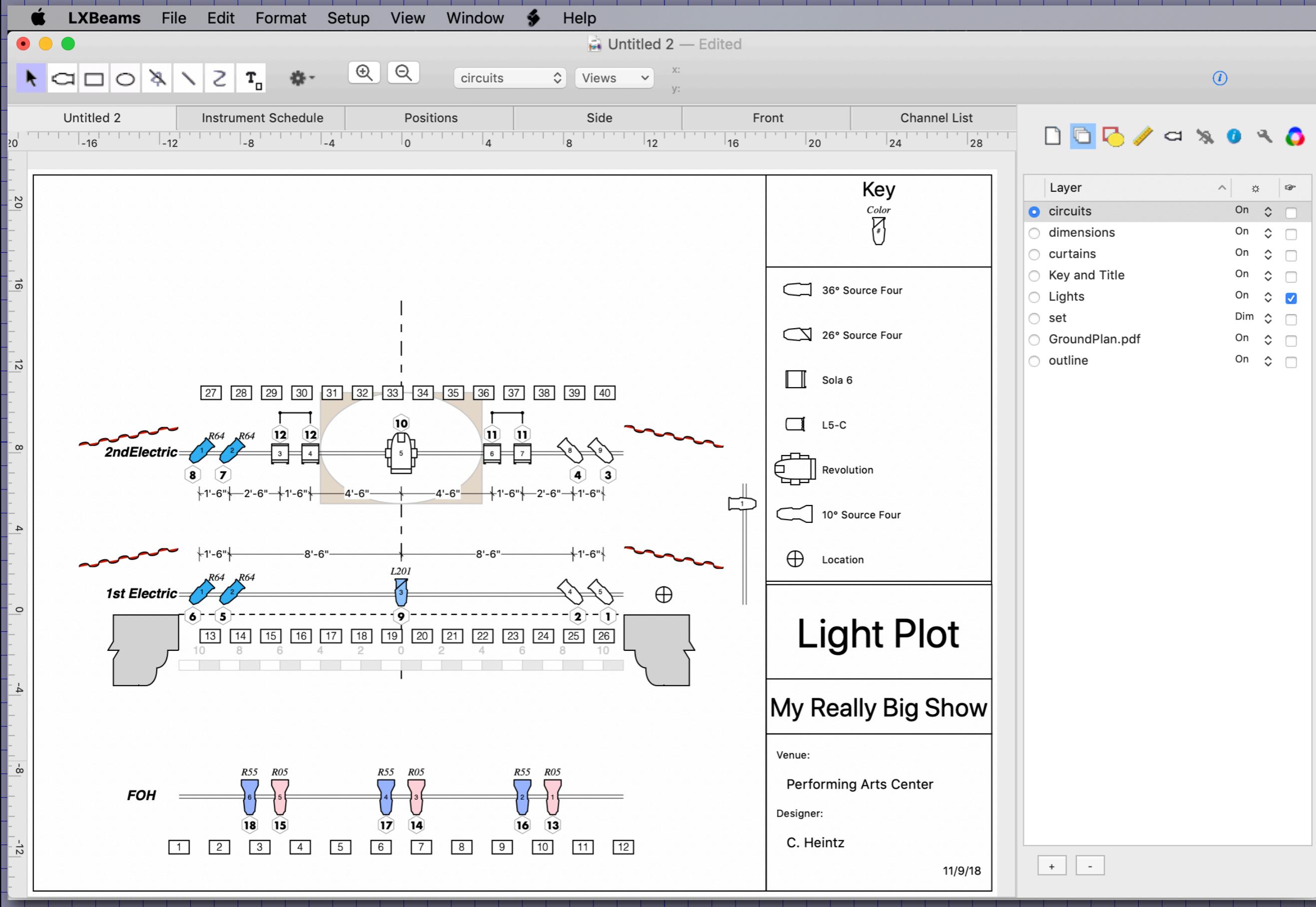
Emoji & Symbols ^⌘ Space

With the field still selected and the tools tab set as before, choose Duplicate.

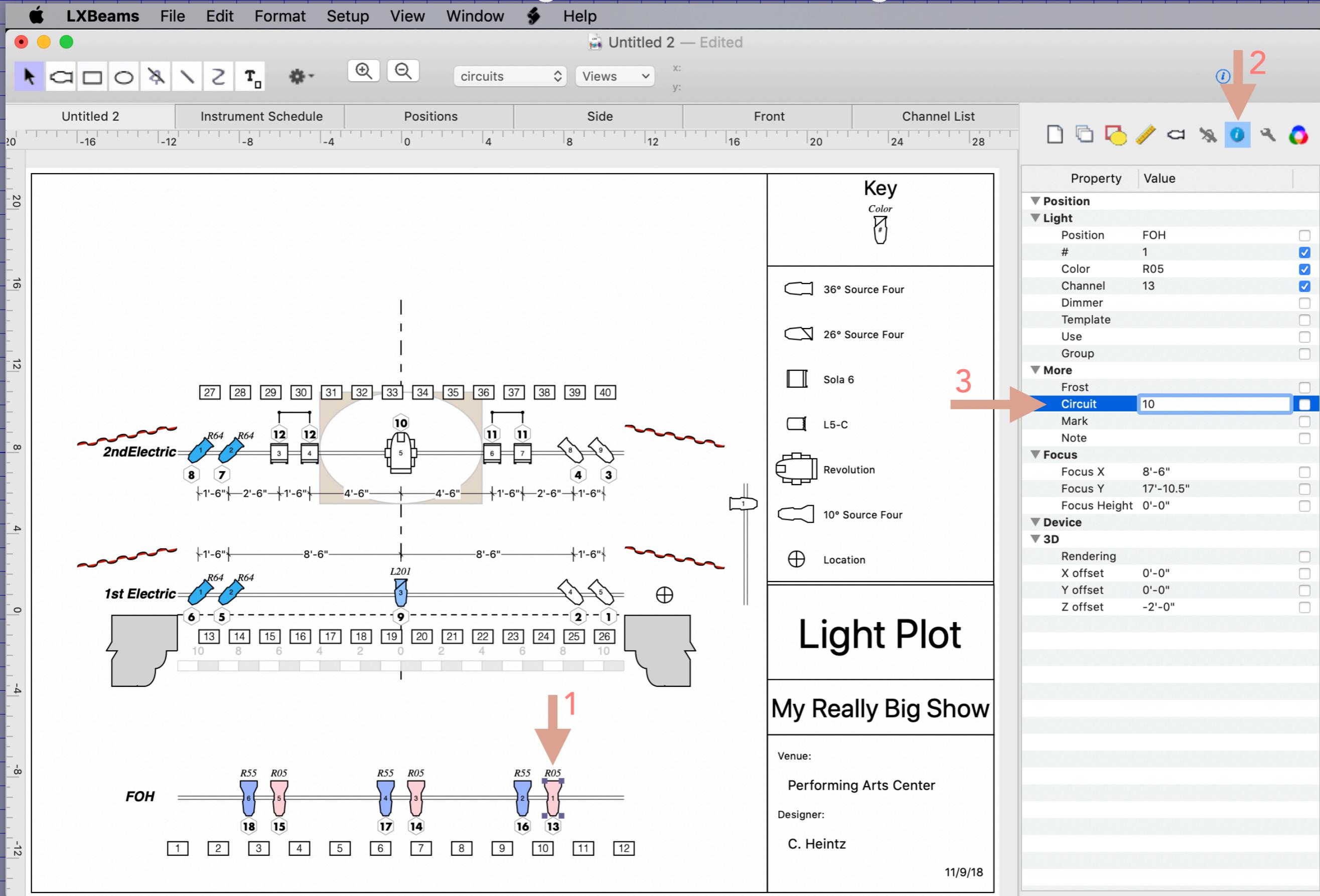


Set the spacing to 1'-6", the direction to 90, and the number of copies to 13.

# You should now have the circuits drawn on a separate layer.



# Start filling in circuits for the lights.



Select a light and enter the closest circuit in the info table.

As a shortcut, press "p" on the keyboard after selecting a light.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

circuits Views x:  
y:

Instrument Schedule Positions Side Front Channel List

Untitled 2 -16 -8 0 4 8 12 16 20 24 28

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

Key

Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

2nd Electric

R64 R64

12 12

8 7

1' 6" 2' 6" 1' 6" 4' 6" 1' 6" 2' 6" 1' 6"

10

11 11

6 7 4 3

1' 6" 2' 6" 1' 6"

1st Electric

R64 R64

6 5

1' 6" 8' 6" 8' 6" 1' 6"

L201

9

13 14 15 16 17 18 19 0 20 21 22 23 24 25 26

10 8 6 4 2 2 4 6 8 10

FOH

R55 R05

18 15

6 5

R55 R05

4 3

17 14

6 7

16 13

2 1

1 2 3 4 5 6 7 8 9 10 11 12

Property Value

▼ Position

▼ Light

Position FOH

# 2

Color R55

Channel 16

Dimmer

Template

Use

Group

▼ More

Frost

Circuit

Mark

Note

▼ Focus

Focus X 7'-0"

Focus Y 17'-10.5"

Focus Height 0'-0"

▼ Device

▼ 3D

Rendering

X offset 0'-0"

Y offset 0'-0"

Z offset -2'-0"

Key

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Light Plot

My Really Big Show

Venue:  
Performing Arts Center

Designer:  
C. Heintz

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Instrument Schedule Positions Side Front Channel List

Untitled 2 -16 -8 0 4 8 12 16 20 24 28

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

Key

Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

2nd Electric

R64 R64

12 12

8 7

1' 6" 2' 6" 1' 6" 4' 6" 1' 6" 2' 6" 1' 6"

10

11 11

6 7 4 3

1' 6" 2' 6" 1' 6"

1st Electric

R64 R64

6 5

1' 6" 8' 6" 8' 6" 1' 6"

L201

9

13 14 15 16 17 18 19 0 20 21 22 23 24 25 26

10 8 6 4 2 2 4 6 8 10

FOH

R55 R05

18 15

6 5

R55 R05

4 3

17 14

6 7

16 13

2 1

1 2 3 4 5 6 7 8 9 10 11 12

Property Value

▼ Position

▼ Light

Position FOH

# 2

Color R55

Channel 16

Dimmer

Template

Use

Group

▼ More

Frost

Circuit

Mark

Note

▼ Focus

Focus X 7'-0"

Focus Y 17'-10.5"

Focus Height 0'-0"

▼ Device

▼ 3D

Rendering

X offset 0'-0"

Y offset 0'-0"

Z offset -2'-0"

Key

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Light Plot

My Really Big Show

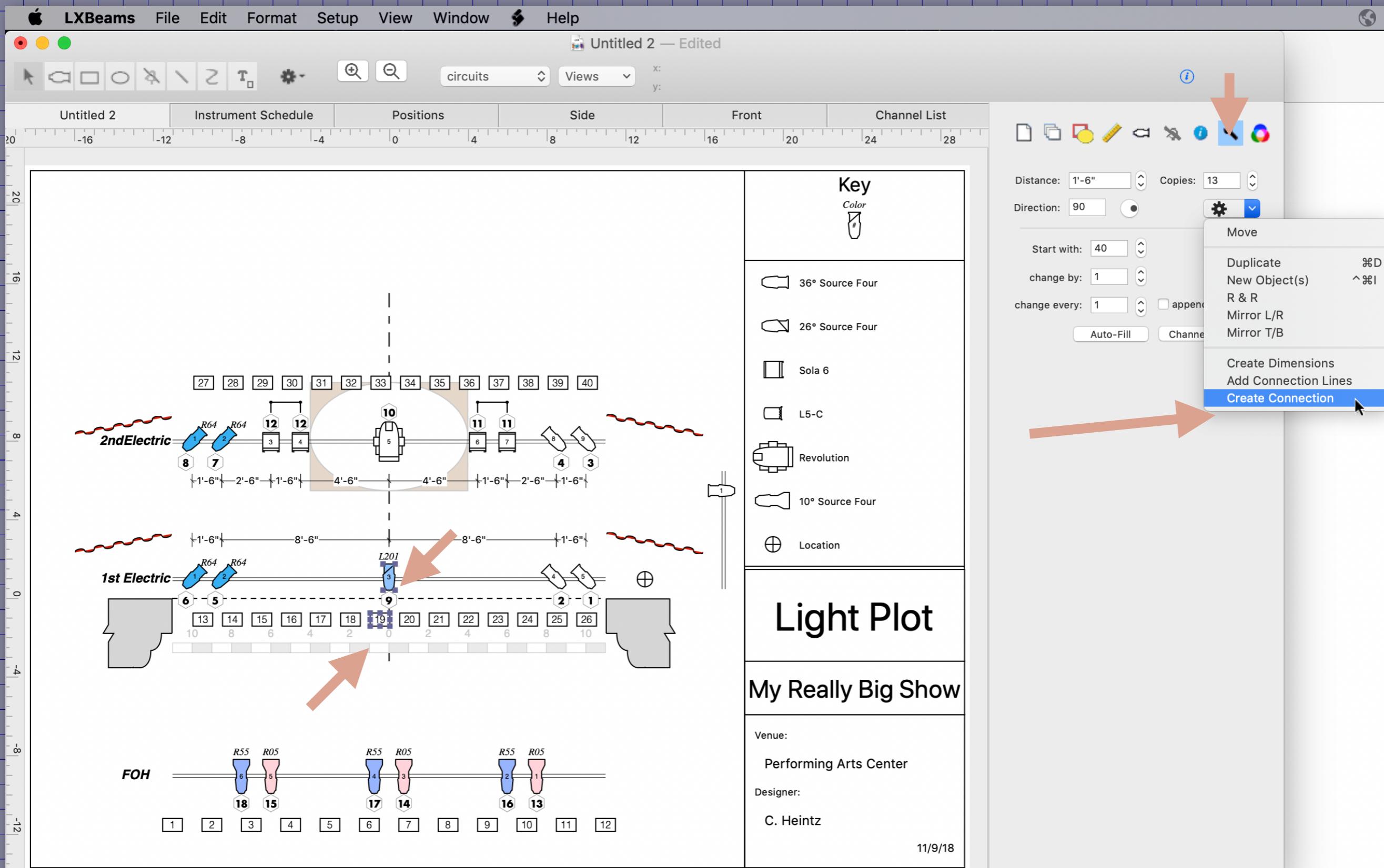
Venue:  
Performing Arts Center

Designer:  
C. Heintz

11/9/18

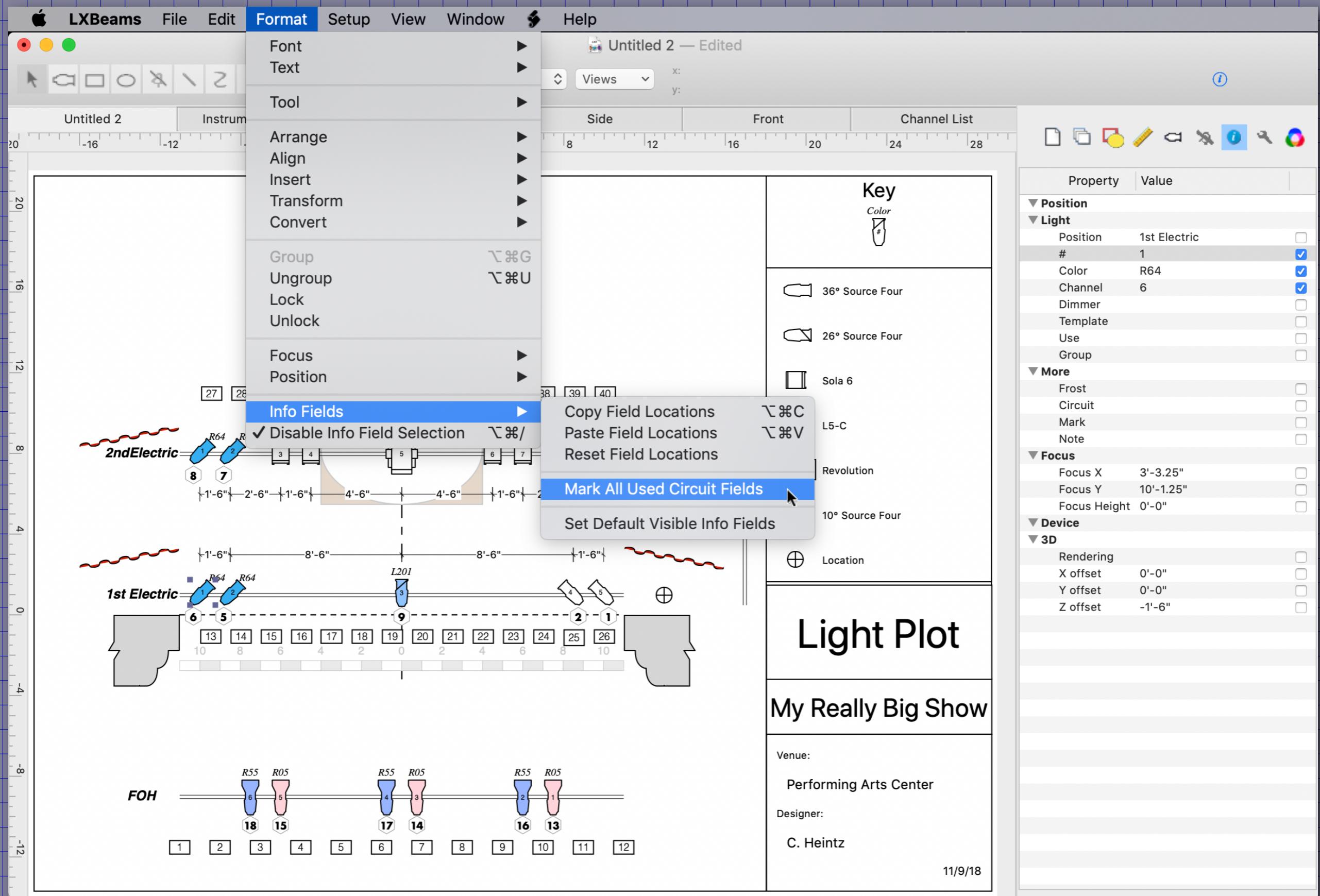
Think 'p' for "Plug-In" is the shortcut for editing the circuit field.

You can also use "Create Connection" in the tools tab popup.



This only works with a single circuit field and a single light selected.  
It copies the circuit from the circuit field into the light's info.

Once you have finished the FOH and 1st Electric lights,  
Choose Format→Info Fields→Mark All used Circuit Fields.



# Select one of the marked circuit fields and look at the info table.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

circuits Views x:  
y:

Untitled 2 Instrument Schedule Positions Side Front Channel List

20 16 12 8 4 0 -4 -8 -12

27 28 29 30 31 32 33 34 35 36 37 38 39 40

10 12 12 11 11 4 3

8 7 6 5 13 14 15 16 17 18 19 20 21 22 23 24 25 26

1st Electric L201 9 2 1

FOH R55 R05 6 5 4 3 2 1 18 15 17 14 16 13

2nd Electric R64 R64 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Key Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Light Plot

My Really Big Show

Venue:  
Performing Arts Center

Designer:  
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11/9/18

The box in the right column is checked when the circuit is in use.

The screenshot shows the LXBeams software interface. On the left is a stage plot with various lighting fixtures and equipment labeled with numbers and abbreviations like 'R64', 'L201', and 'FOH'. The plot includes a key for symbols and a legend for light types. On the right is an 'Info' table with columns for 'Property' and 'Value'. A red arrow points to the 'Circuit' column for 'Circuit 19', which has a checked checkbox. Another red arrow points to the 'Focus' section of the table. The table also contains sections for 'Position', 'Light', 'More', 'Device', and '3D'. At the bottom right of the table is the date '11/9/18'.

# Finish assigning circuits to the 2nd Electric. Note the lights sharing a circuit.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

circuits Views x:  
y:

Untitled 2 Instrument Schedule Positions Side Front Channel List

20 -16 -12 -8 -4 0 4 8 12 16 20 24 28

20  
16  
12  
8  
4  
0  
-4  
-8  
-12

Key

Color #

36° Source Four

26° Source Four

Sola 6

L5-C

Revolution

10° Source Four

Location

Property Value

Position 2ndElectric

# (...) 6

Color

Channel 11

Dimmer

Template

Use

Group

More

Frost

Circuit 37

Mark

Note

Focus

Focus X 0'-0"

Focus Y 0'-0"

Focus Height 0'-0"

Spot/Flood 15

Cd@Spot/F... 23100

Device

Parameters

3D

Rendering

X offset 0'-0"

Y offset 0'-0"

Z offset -0'-7.5"

Light Plot

My Really Big Show

Venue:  
Performing Arts Center

Designer:  
C. Heintz

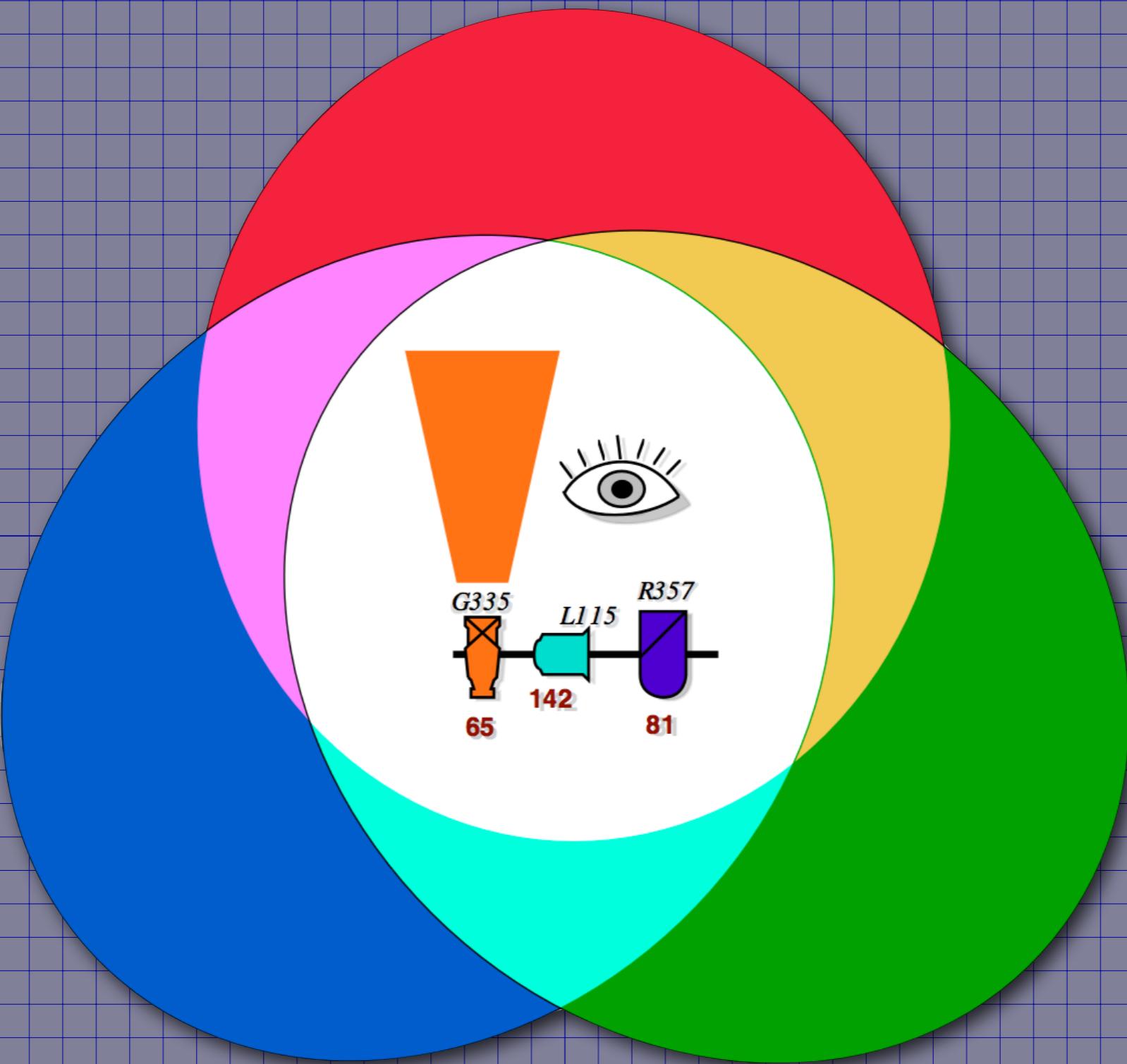
11/9/18

Again choose Format→Info Fields→Mark All Used Circuit Fields.

# In this section we've looked at Circuit Text Fields.

- Circuit Text Fields are special purpose text labels for displaying circuit numbers.
- Circuit numbers can be automatically incremented when pasted or duplicated.
- Circuit Text Fields can be marked as used, giving visual indication of the location of open circuits.

<https://www.claudeheintzdesign.com/lx>



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