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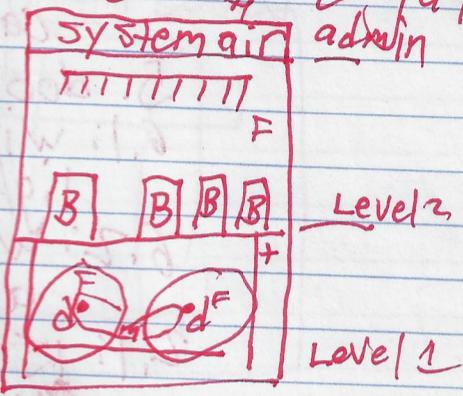
4-17-22

grow tent 2.0 draft

⑤

N-FL-P

- first variance will have a single drum 2 feet diameter and less than 4 feet of ~~space~~ width
- This will allow for easily inserting into grow tent
- need different smaller buckets for bucket system
 - can be 2 gallon buckets
- grow lights need to be different as well, top part needs light bars to more easily spread light uniformly
- need a table to separate top and bottom

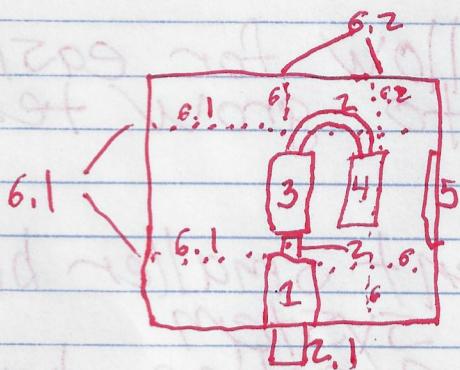


②
4-17-22

grow tent 20 draft

~~top part level~~

top admin Level air Level



1: muffler

2: dryer connection

3: fan

4: Filter

- can be disconnected

5: door

6.1: will hang

6.2: will hang

air system

2.1: is air outlet

pointing upward

6.5-6.8

(3)

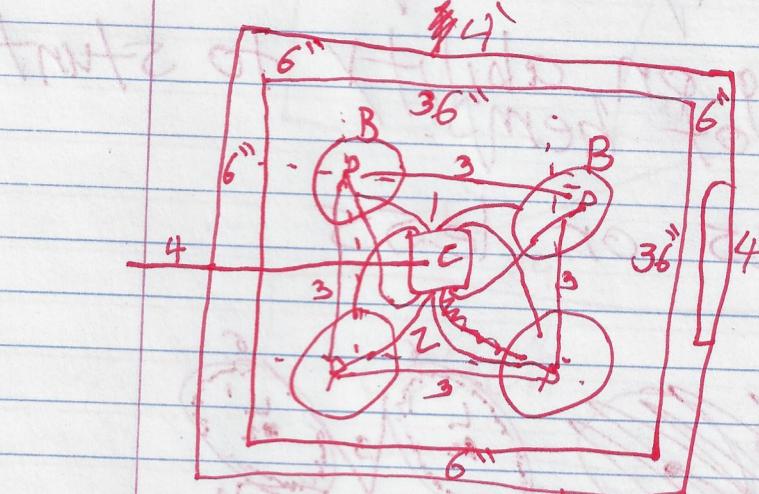
4-17-22

grow tent 2.0 draft

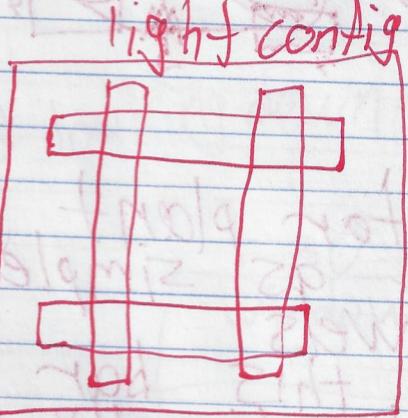
(4)

100% works

Level 2



- 1: air pump
- 2: pump power
- 3: pump outlet
- 4: power cord
- C: computer



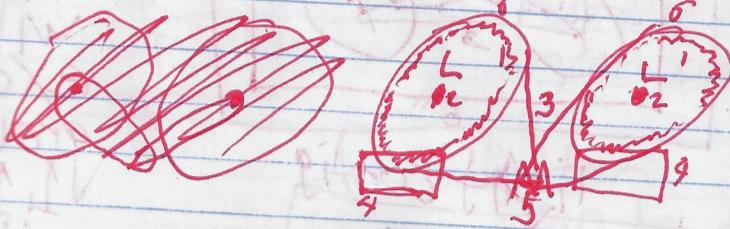
Level 2
will work
exactly like
grow tent
V1.1 but
will have
smaller
~~buckets~~
~~and~~ and
more
sensors

There will be less space
so the grow lights will be
directly above the plants.
This will allow for more to
be grown in a smaller space

④ grow tent + 2.0
4-17-22 draft

Drum Layer experimental

- ! depending on ability to stunt growth of hemp.
- 2 drums or less



- 1: material for plant growth
 - might be as simple as paper towels
- 2: Light bar, this bar will point omnidirectionally, might consist of 3 light bars
- 3: belt connecting drums to slow drive motor
- 4: water reservoir, plants need about 10 minute soak every hour
- 5: slow operating motor need to turn drums 1 time per hour
- 6: drums

6.5-6.8

①
5-11-22

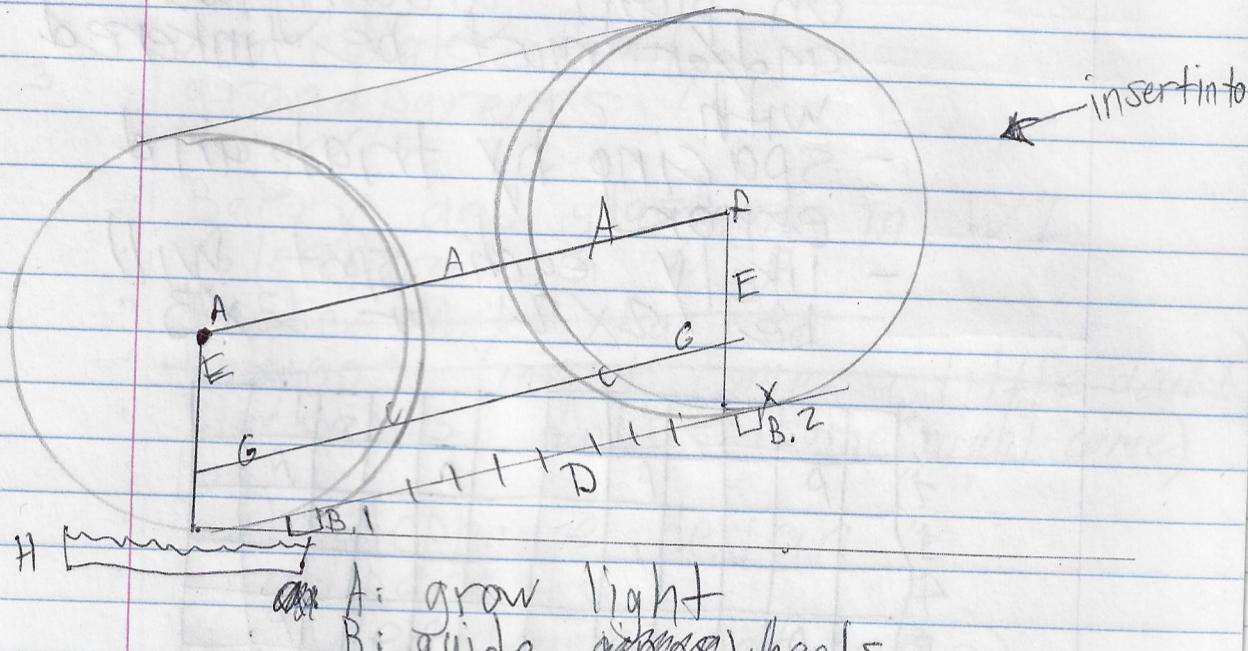
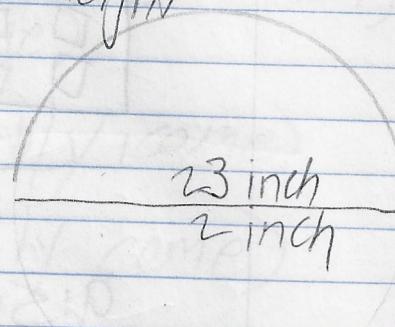
growtent 2.0

Barrel 23" diameter, 33" height

23" = 2 inch

~~23:1 scale~~
23:2 scale

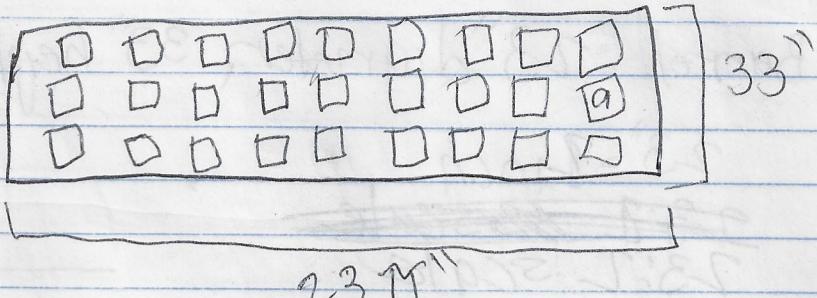
$$33 \cdot \frac{2}{23} = 2.8695$$



- A: grow light
- B: guide wheels
- B.1 powered wheel
- B.2 non powered wheel
- C: (semi-circle) guide lines for wheels
- D: holes for plants
- E: support or lights and drip system
- F: detachable pivot
- G: water drip system
- H: water catch for run off

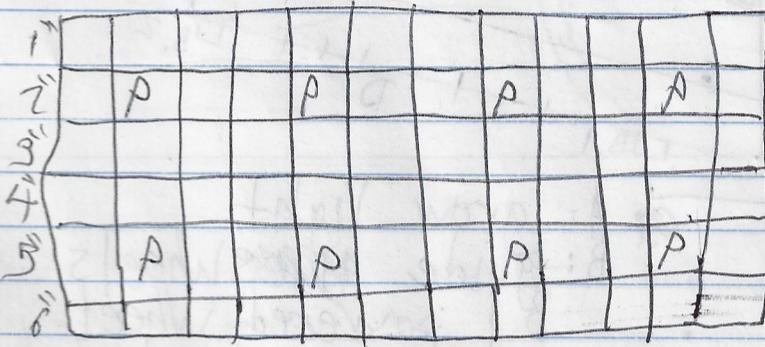
②

grow tent 2.0



a: Space for block of rock wool or coconut ~~wool~~ wool

- Spacing is dependent on plant growing ~~size~~ and/or must be tinkered with
- Spacing by trial and error
- likely each spot will be 2×2 or 3×3



if 3×3 is used then each barrel should contain about 12 plants

$$50.265 \times 33 = 103.67 \text{ sq in}$$

growth size can likely be much higher, perhaps 1.5×1.5

6.5-6.8

① 2050 Minneapolis

5-25-22

- Eliminate homelessness
- Increase density of housing
- Eliminate economically disparate communities
- Reduce burden of police patrolling abandoned buildings
- Increase funding for racially segregated communities
- Eliminate fresh food deserts
- ~~Eliminate~~ Eliminate lacking of community clinics
- Reduce burdensome police work
- increase art works in the city
- ~~Preserve~~ historic large properties
- Increase amount of public spaces in city
- ~~Increase~~ decrease carbon footprint of city
- increase likelihood of people moving to city
- increase voter participation
- decrease segregation
- more...
- decrease reliance on automobiles

② Minneapolis 2050

5-25-22

- increase bikability
- increase public transit
- Give jobs to all that need homes to all that need
- eliminate animal based majority stores
- Make Minneapolis best city in America
- ? Bring in Blockchain (honestly probably not)
- other things that need changing
 - glasses and optical insurance
 - make select list of glasses
 - make sexy marketing
 - sell sex appeal
 - charge ridiculously low
 - make it the only way to be sexy is to have cheap glasses
 - would need to find cheap lens somehow

200+ plan

- repeal second amendment &
- cos. in abortion
- codify equal rights

6.5-6.8

③

2100+ plan

5-27-22

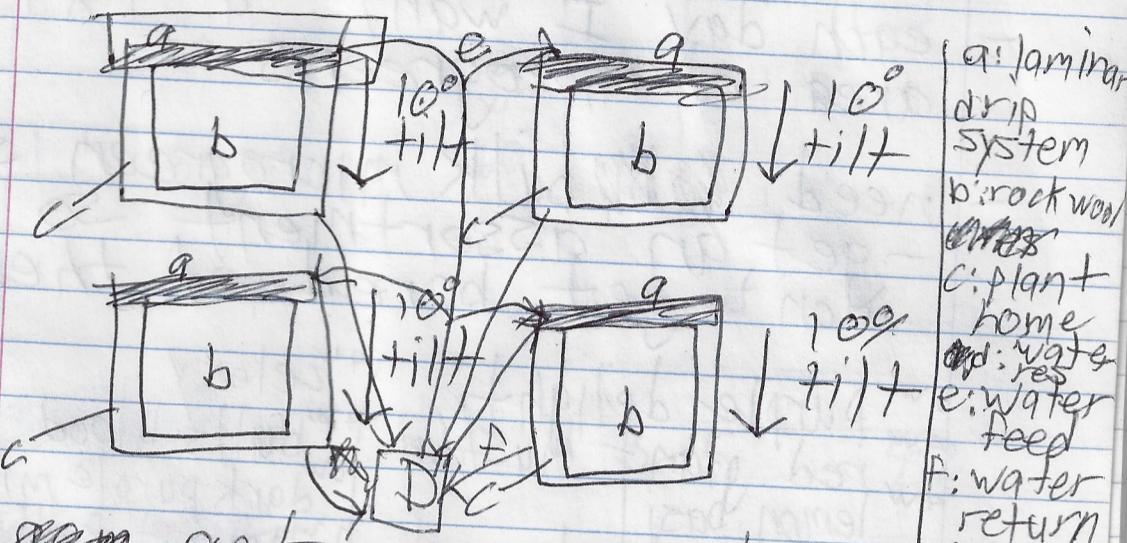
- constitutionally recognize same-sex marriage
- constitutional / costly legalization of marijuana
- destroy I-35, I-94, I-494, etc from going through Minneapolis (replace with trains)
 - would need to figure out goods movements
 - people use subway
 - need to figure out construction equipment
 - probably add new permit type to allow for large trucks to move through town (roads are wide enough)
 - buses are not the answer (maybe, very much maybe not)

Personal thought

- once Luke makes double my salary perhaps dedicate most of my time doing 2050
- start with grow tent

① grow tent 1, 2

- higher density of hemp
- ~~three phases of~~ nutrients
- solution must be over 1000 EC at all times
- more fans
- continue with drip system
- remove buckets, replace with boxes ~ 15" x 15"



- get more rock wool
- get micro greens seeds
- get table for grow tent
- get more lights
- get more small fans
- maybe get another filter
- perhaps remove aerator
- all water feeds to central reservoir and drains to reservoir

⑦

grow tent 1.2

- power drill?
- figure out how to make laminar flow

Microgreens

goal: every day have a large salad of microgreens

- each day I want a 1'x1' area of microgreens
- need ~~1000~~ bulk microgreen seeds
 - get an assortment so we don't get bored of them

purple delight	celery
red giant mustard	blood
lemon basil	dark purple mizuna
ruby streaks mustard	Hongvit Radish
green wave mustard	
daikon radish	

- broccoli, cauliflower, cabbage, sunflower seeds

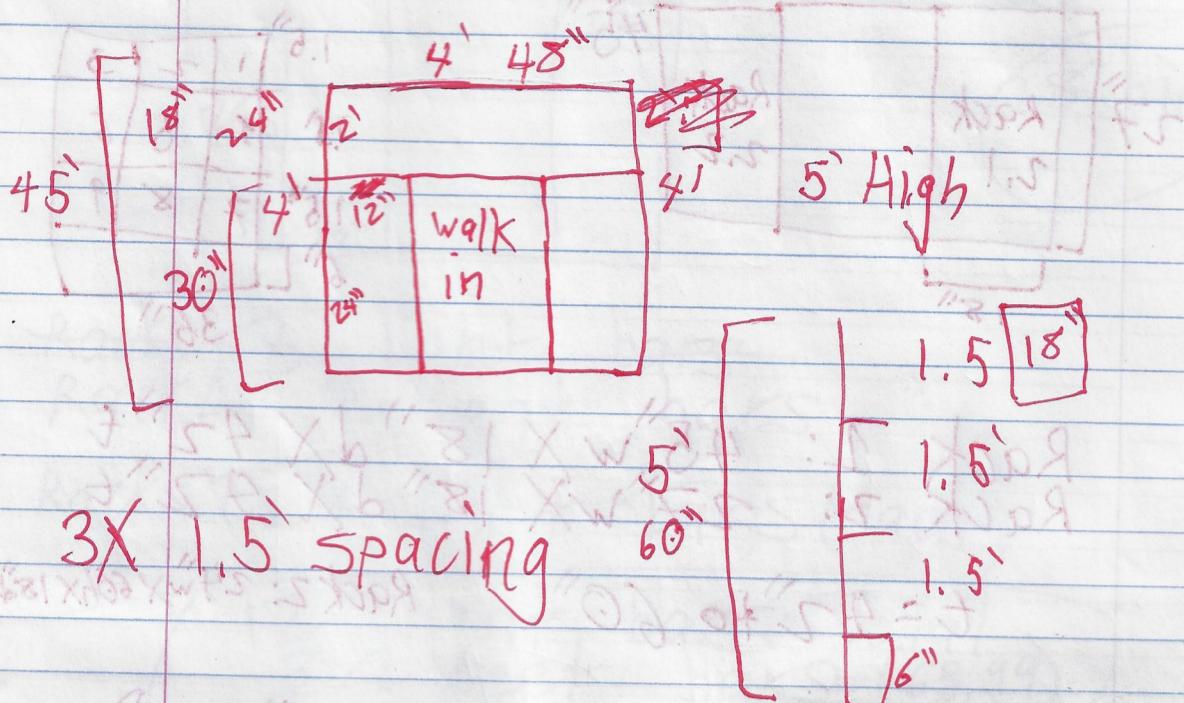
trays	racks	nutrients
coir	timers	
lamps	seeds	

65-6.8

③

grow tent 1, 2 immediate attention 8-29-22

~~need~~ need several racks



~~2 racks~~

~~w 24" x d 12"~~
differing widths

1 rack
w 48" x d 24" x h 42"

2 racks
w 24" x d 12" x 42"

standard 18" option

3.5 2nd 42" (P)

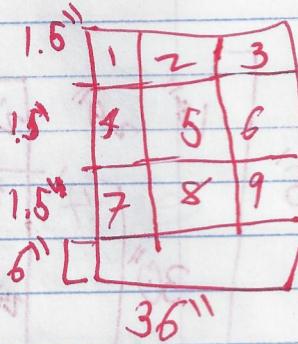
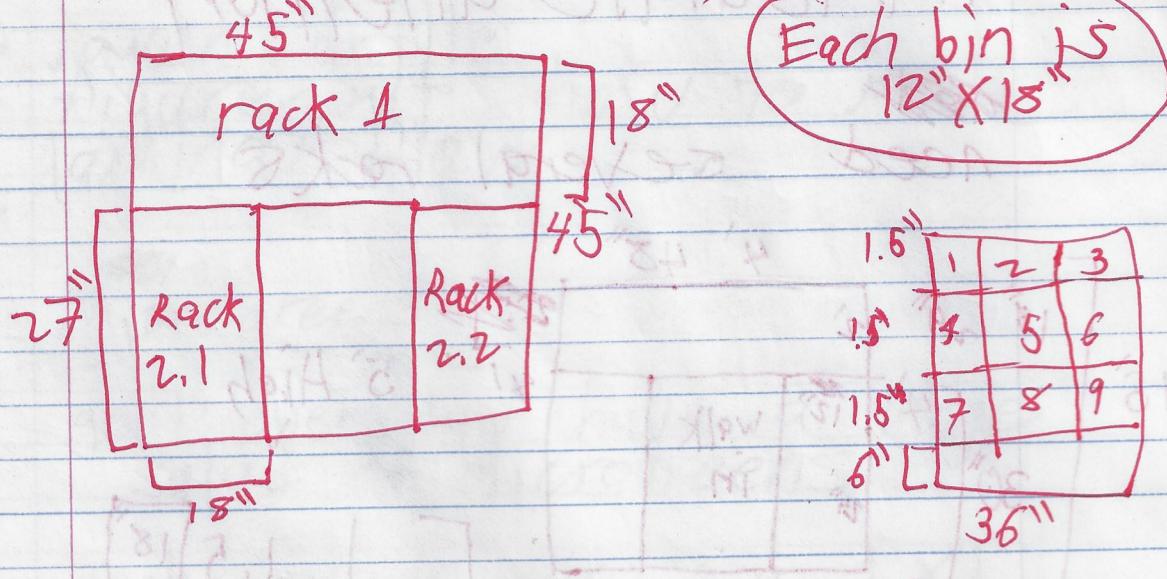
standard 18" width

1 rack
w 48" x 18" x 42"

w 30"

(4)

grow tent attention 1.2



Rack 1: 45" w X 18" d X 42" h

Rack 2: 27" w X 18" d X 42" h

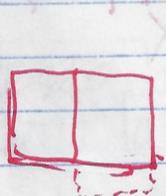
t = 42" + 60" Rack 2: 24" w X 60" h X 18" d

Rack 1: from Home depot 36" w X 60" h X 18" d
(139) 9 bins

Rack 2: other rack from HD 18 bins

(65.99) 18 bins

~~cost is \$15.99 x 18 = \$283.82~~

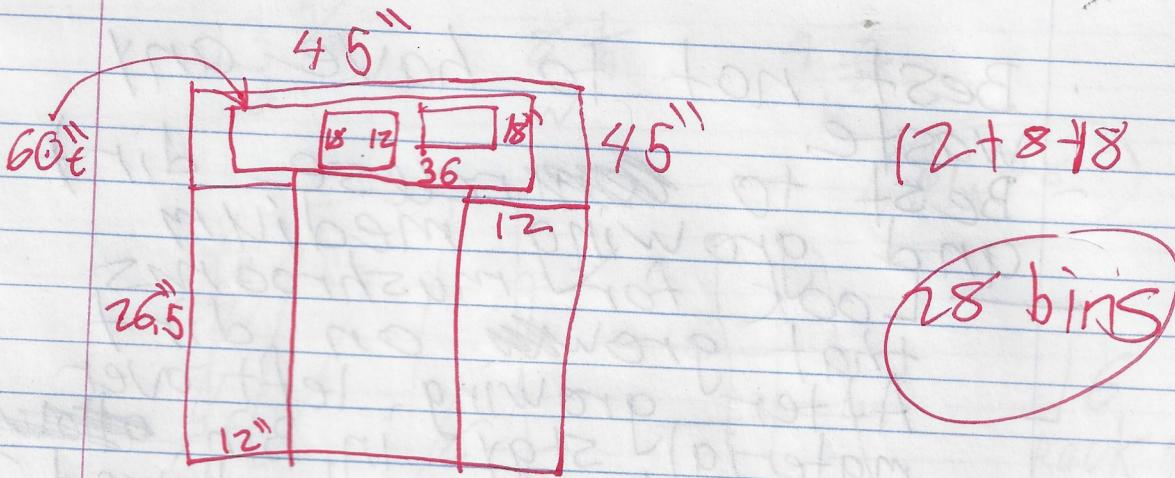


both racks home depot
from Amazon

6.5-6.8

⑤

grow tent 1.2



$$12+8=18$$

28 bins

Rack 1: 3 light bars
Rack 2: 4 light bars

Racks 2: 4 light bars (each)

12 light bars total
8: 2 feet bars (65.99)
4: 3 feet bars (69.99)

from Amazon

Coir from Amazon

• 18x12 bins

from Amazon or elsewhere

149.7

• Likely 12x12 bins instead
with lids 30 bins
from Amazon

14.14

• Microgreen seeds

12.24

⑥

Grow tent 1, 2

- Best not to have any waste.
- Best to ~~compost~~ reuse dirt and growing medium
- Look for mushrooms that grow on dirt
- After growing, left over material stays in bin, ~~blended~~ blended up and allowed to compost.
(need to find out how long composting takes)
- After growing is complete sterilize soil then inoculate the sterilized dirt with mushroom variety
- After mushrooms are done living and harvested, sterilize dirt again, try using dirt to grow more microgreens
 - If this proves inadequate compost remaining dirt

need still: seeds, mushrooms

- Broccoli seeds (15 days)
- Cauliflower (15 days)
- Cabbage seeds (15 days) (use red cabbage)
- Sunflower seeds

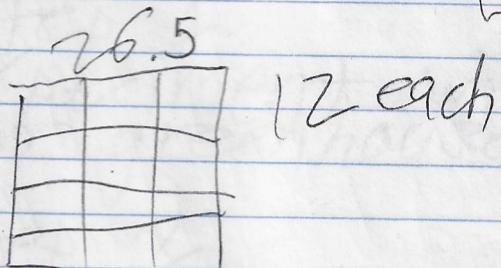
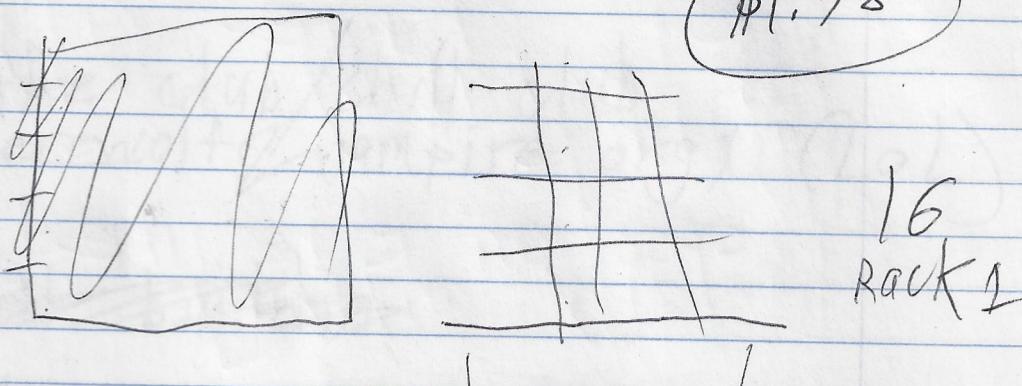
6.5-6.8

⑦

Grow tent 1.2

$13\frac{5}{8}$
d $8\frac{1}{4}$
w $4\frac{7}{8}$
h

\$1.78



45 bins

40 @ 1.78

371.36
351.08

Get Dirt by Bike

6K5n+0gX

①

2050

5-30-22
memorial Day

Part 1, expand grow tent

goal

coffee club/chill club

werewolf & vampire org (LoL)

56

~~Get building~~

Step 1

experiment with prototypes
for greenhouse

Step 2

find money or find general
patent for system

Step 3

Find building

Find condemned building
put in request for why
200 oak grove was
condemned

Step 4

Rehab or build

Step 5

②

2050

Before Building grow tent

3.0
must change city ordinance
for rehabbing condemned &
buildings

currently inspection is required before
literally anything can happen

Beginning work is extremely
expensive, must be completed
in 9 months and all of it
must be completed by
specialized contractors

- Do some more research to
reduce costs and more

- Fee paid on top when ~~the~~
a construction is completed
that increases the value of
the building which ~~would~~ would
occur 100% of the time
- maybe, doesn't seem that
much

Restoration agreements

Petition city for bike delivery
being easier and cheaper than car

6.5-6.8