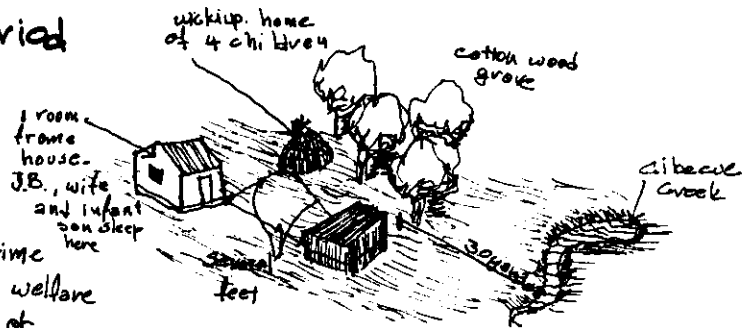


# Post-reservation period Apache Housing

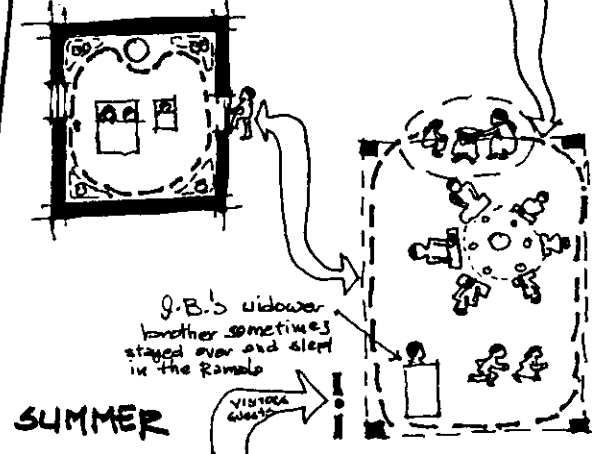
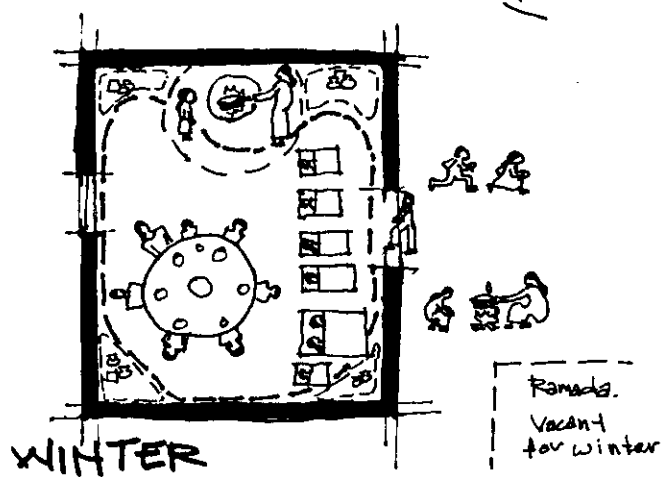
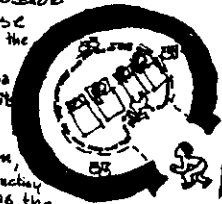
## B. Nuclear Family (Gowa)

• Although the goal of nuclear family is emerging as a prime economic unit, its affairs and welfare are still tied up with the gots, or family cluster.

• In the following diagrams, a single case of a gowa in the 1970's, described by anthropologist Keith Basso, is graphically detailed.

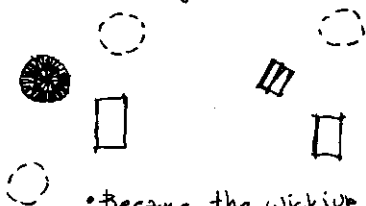


• If a large household has only one house structure, part of the family may sleep outside in the Ramada when weather permits.  
 • If a household has 2 house with one or more rooms added on, the rooms may function exactly the same as the house and wickiup in this diagram.



## Post-reservation Period Apache Housing.

growth



• Because the wickiup involved no monetary investment, growth could occur easily by repeating the wickiup structure. Most reservation households can probably not afford more than one small house or room additions. In some cases, wickiups have been built for the children. Otherwise the whole family is crammed into the house, part of the family sleeping outside when possible.



When room additions are made, the concept of a room as an independent space is sometimes kept, and the house becomes an accretion of several non communicating houses joined together, as in this Navajo hobe (right)

Gota. The frame house can be used in the family cluster the same way the wickiup was

other characteristics of the one room house.

• In addition to family cluster siting already described, small frame houses can be seen on small (1/2 acre) lots lining one or both sides of the highway. They are usually accompanied by ramada and shade trees.

Climate.

• usually being squarish, the frame house has a fair surface/volume ratio.

• The usual one small window placed high provided a view without excessive glare. Ventilation was poor.

• Although the house has a good surface/volume ratio, it is usually inadequately ventilated, insulated and probably gets excessively hot in summer if not protected by trees and excessively cold in the summer

• Other inadequacies. Many houses lack electricity, water, and adequate light/ventilation, heat.

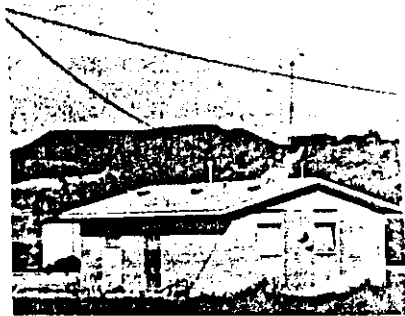


• unquestionably more permanent & weather tight than wickiup.



• other housing.

• Apache houses range from those so far described to typical HUD funded, architect or builder designed tract housing with modern kitchens & baths and 0 to 4 bedrooms. These houses appear to take or use nothing from Apache culture or the desert climate, but are important in terms of modern comforts and technological conveniences which are now sought by many Apaches. Also, they are important as a representation of what some apaches see as the ideal, the American norm.

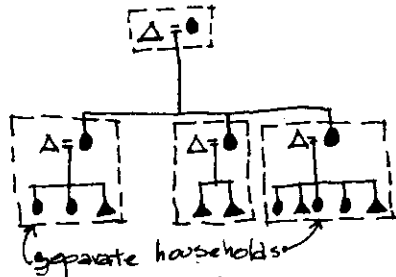


A newer apache home, San Carlos, 1970's.

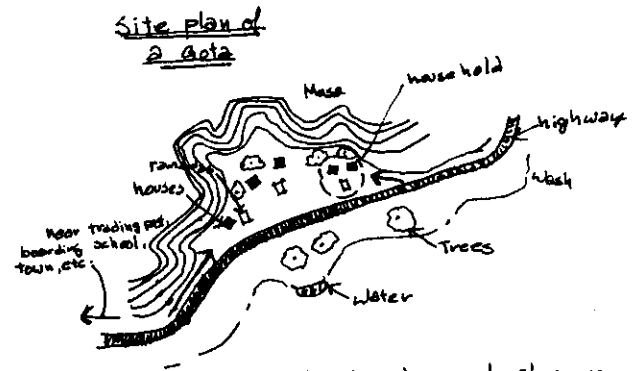
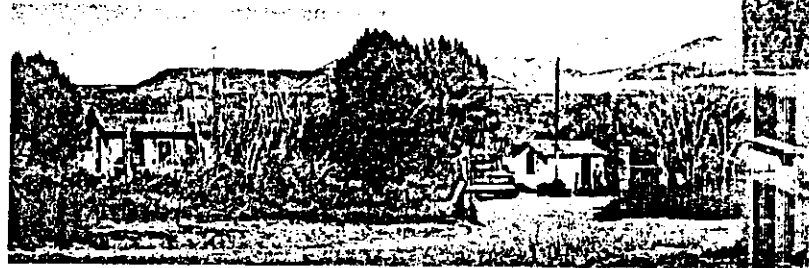
## Post-reservation period Apache Housing

### C. Extended Matrilineal Family (GOTA)

- Although the Gota no longer provides the organizational framework for economic activities, the Gota is still a firmly established spatially localized unit.



- Because of greater variety of options, off-reservation work, etc., Gota settlements may be smaller than in the past, or not occur at all.



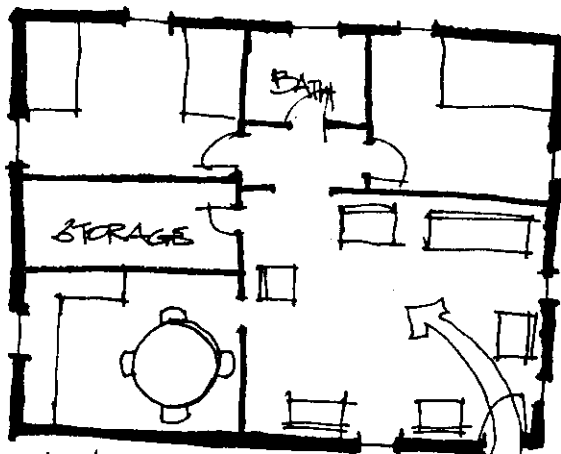
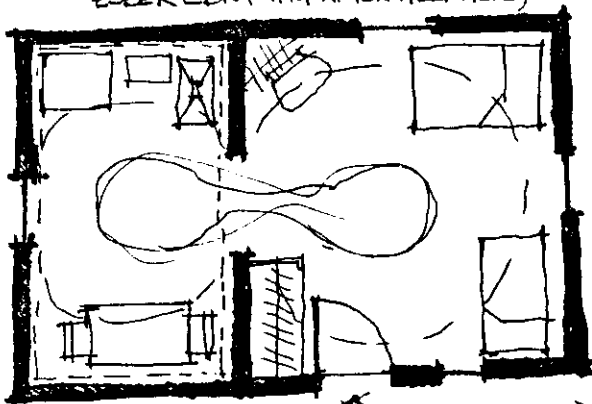
- The band and local group system broke down with the obsolescence of the hunt, gather, raid, economy.
- Subtribal groups correspond with reservation boundaries.



# CONTEMPORARY MULTIROOM HOUSEPLANS BY APACHES

Plans of a model by Apache for his own home.

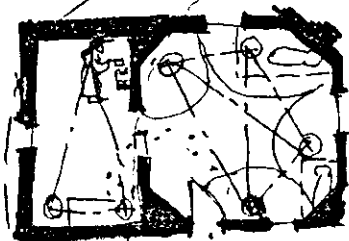
Two room house,  
ESBER (DRAWING AFTER ALBANESE)



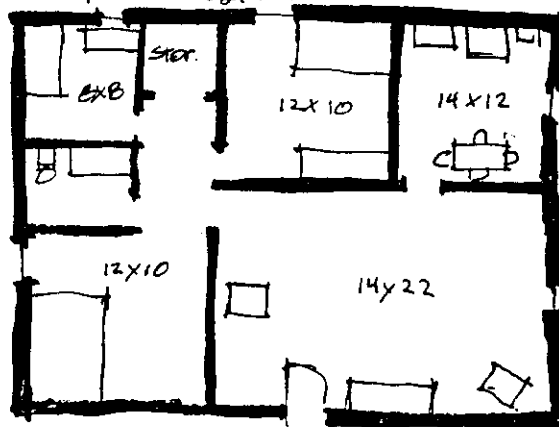
note: large storage spaces,  
short passages,  
large combined kitchen, dining  
central focused living areas,  
circ. through center.

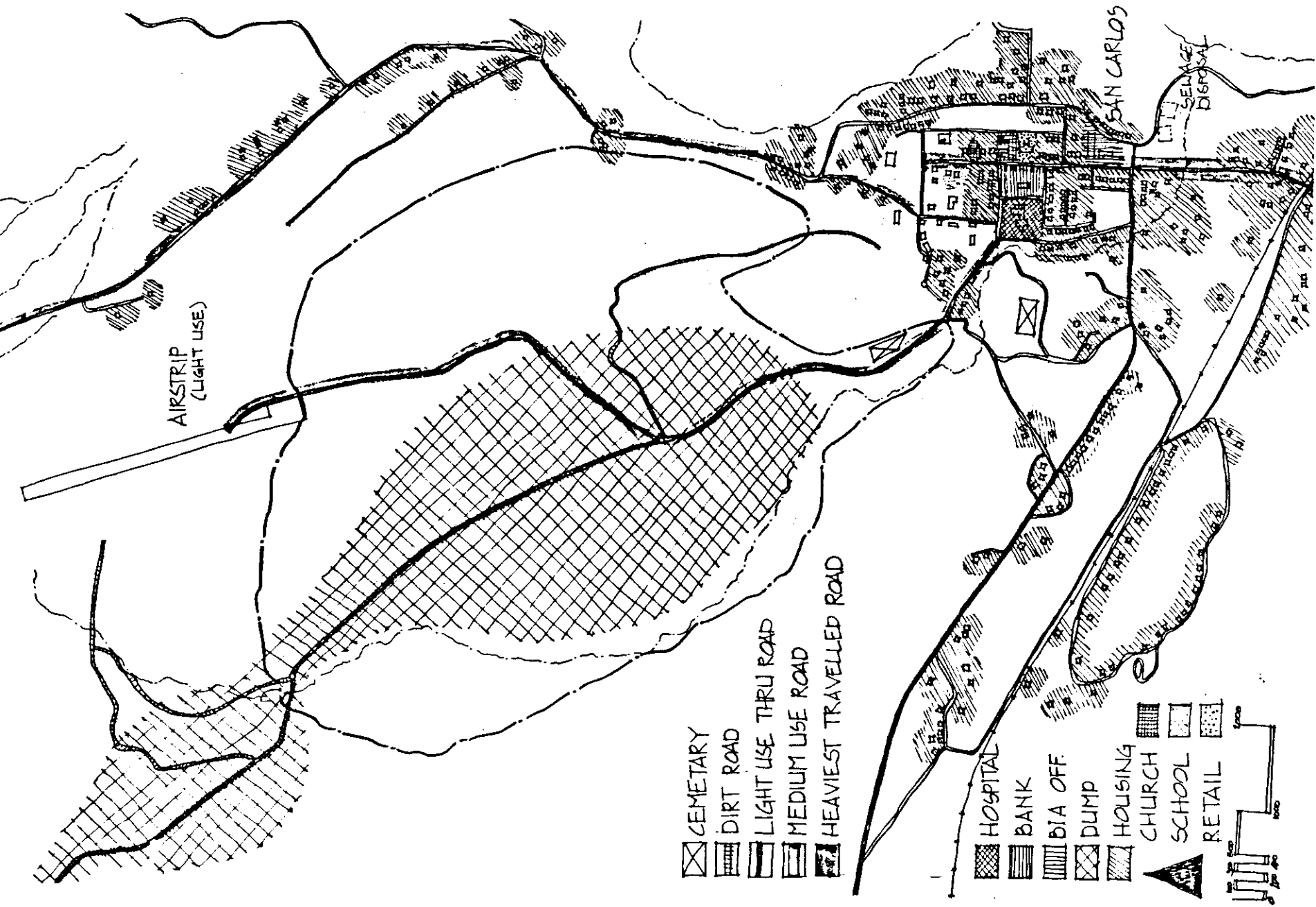
Two rooms often develop from the  
one room house. Bedrooms added by accretion.

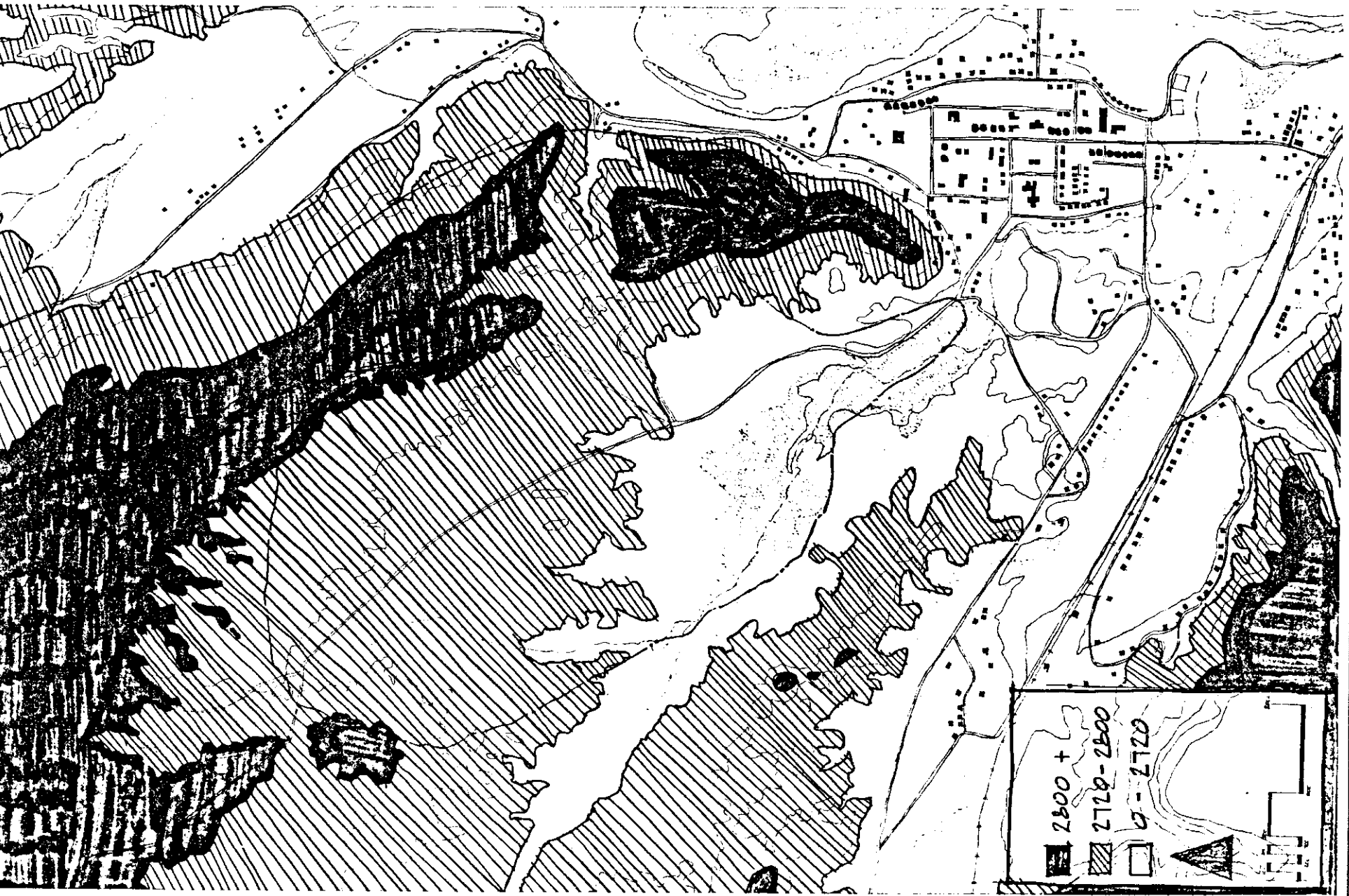
It's not that you enter through  
the sleeping space, but rather  
the sleeping space is redefined  
during the waking hours as a  
space less private  
than the dining-  
area used for  
conversation, the  
back becoming a  
sitting furniture.

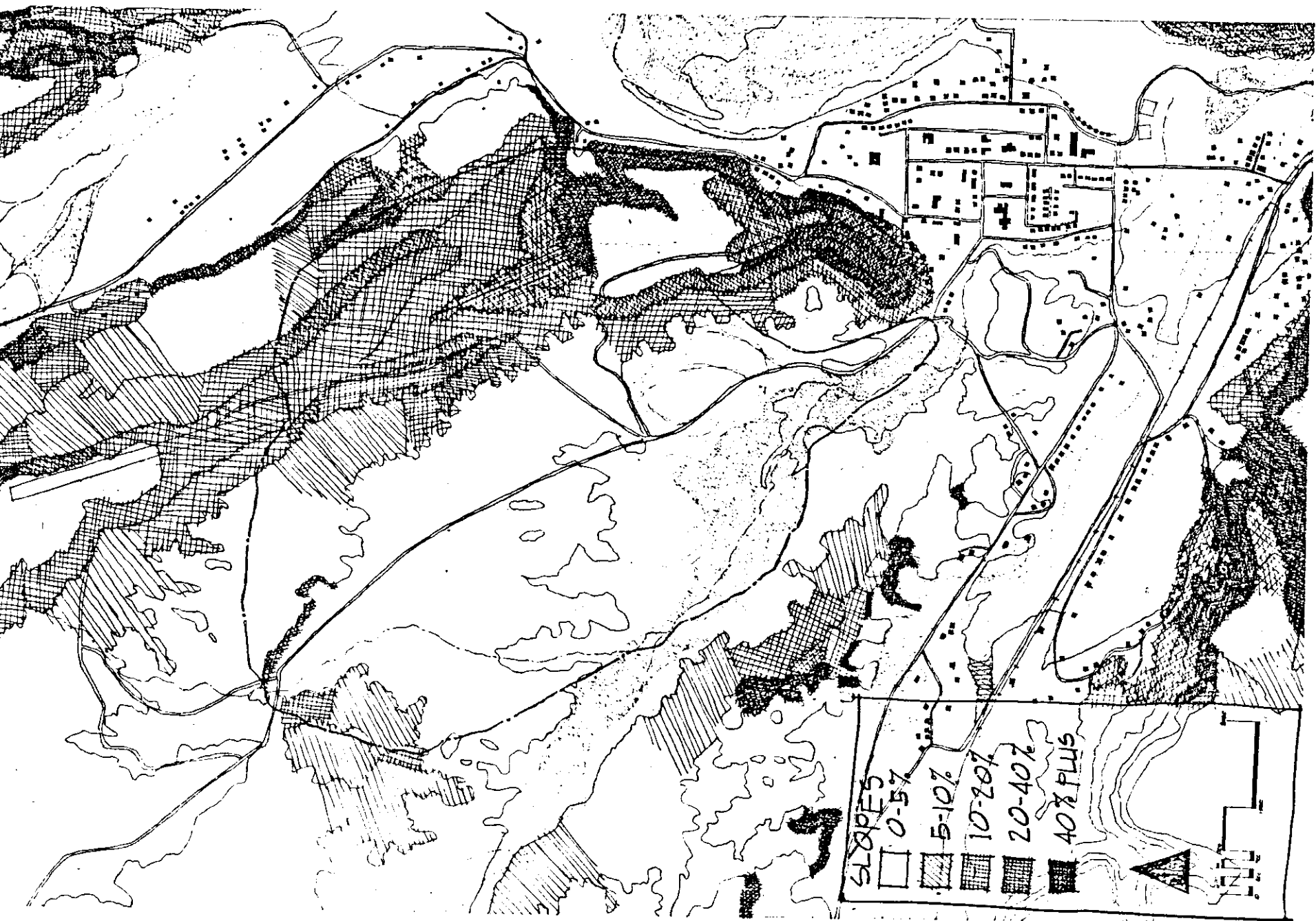


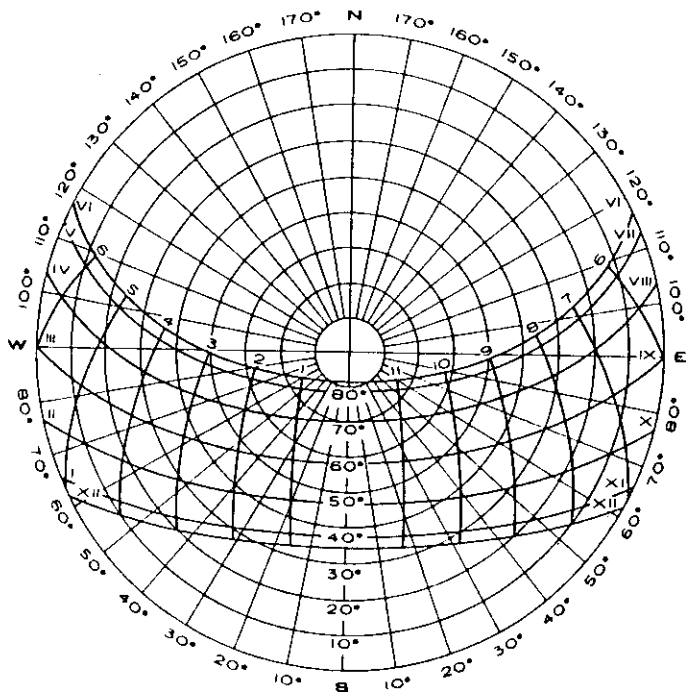
MIGRATION



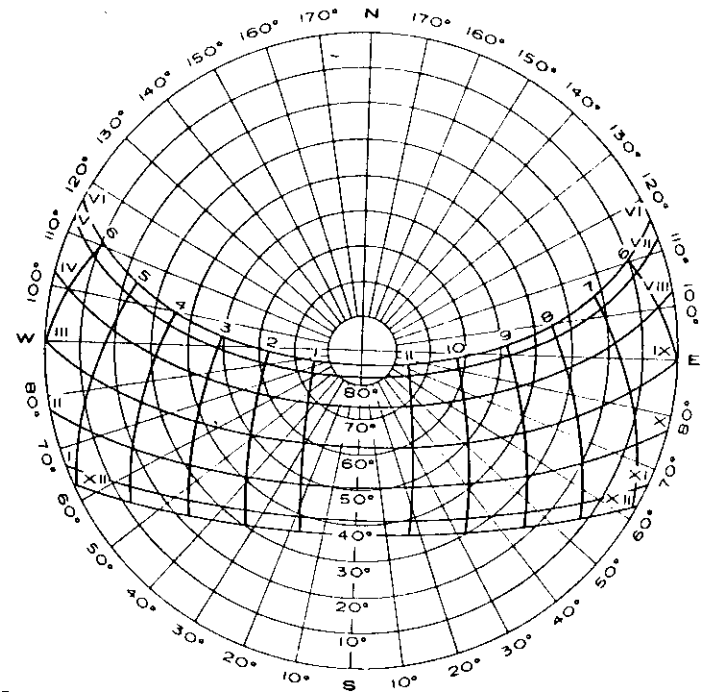






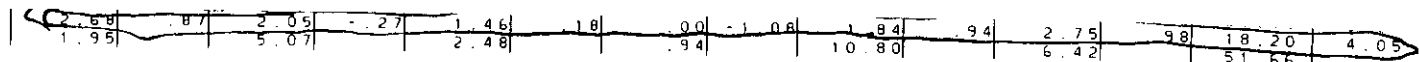


32°N LATITUDE



28°N LATITUDE

SAN CARLOS RESERVOIR  
TONTA CREEK F H 2



**ARIZONA (Cont'd.)**

**TUCSON** Elevation 2584 Ft.

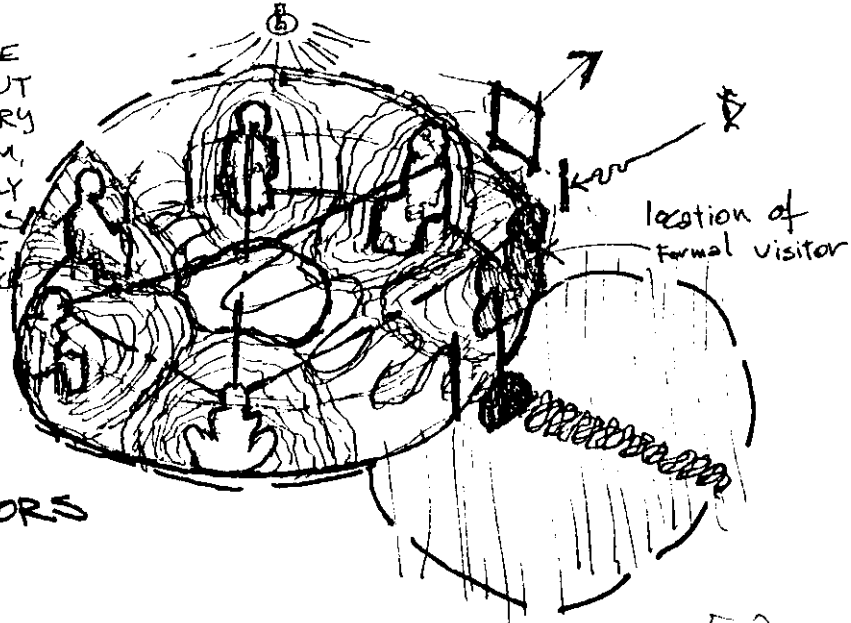
	Temperature					Degree Days (Base 65°)		Rel. Hum.	Prec. Nor.	Wind Speed	Direction	% Poss. Sunshine	Average Number of Days of									
	Maximum	Minimum	Monthly	Highest	Lowest	Heating	Cooling						11:00 a.m. Total	Snow Total	Average	Sunup/Sundown	Rain .01"	Snow 1.0"	Thunder	Fog	Percent IFR	
J	63	37	50	87	16	471	6	39	1	0	8	se	82	14	7	10	4	.	.	.	.	1
F	66	40	53	92	20	344	0	34	1	0	8	se	83	13	6	9	4	.	.	.	.	.
M	72	44	58	92	20	242	45	28	0	0	8	se	86	14	8	9	4	.	.	.	.	1
A	81	51	66	102	27	75	51	21	0	0	9	se	91	17	7	6	2	.	.	.	.	.
M	89	57	73	107	38	6	152	16	0	0	9	se	94	20	7	4	1	0	1	0	0	.
J	98	67	83	111	47	0	493	17	0	0	8	sse	93	22	6	2	1	0	2	0	0	.
J	98	74	86	111	63	0	706	33	2	0	8	se	77	10	12	9	10	0	14	0	.	.
A	95	71	83	109	61	0	514	40	3	0	8	se	80	12	12	7	10	0	14	0	.	.
S	93	67	80	107	44	0	430	31	1	0	8	se	87	20	6	4	4	0	5	0	.	.
O	83	57	70	101	26	25	101	29	1	0	8	se	87	20	6	4	4	0	5	0	.	.
N	72	44	58	90	24	231	12	31	1	0	8	se	85	17	7	6	3	.	.	.	.	.
D	65	39	52	84	18	406	0	39	1	0	8	se	79	15	6	10	4	.	.	.	.	.
Y	81	51	68	111	16	1800	2510	30	11	1	8	se	86	194	91	80	50	1	40	1	.	.



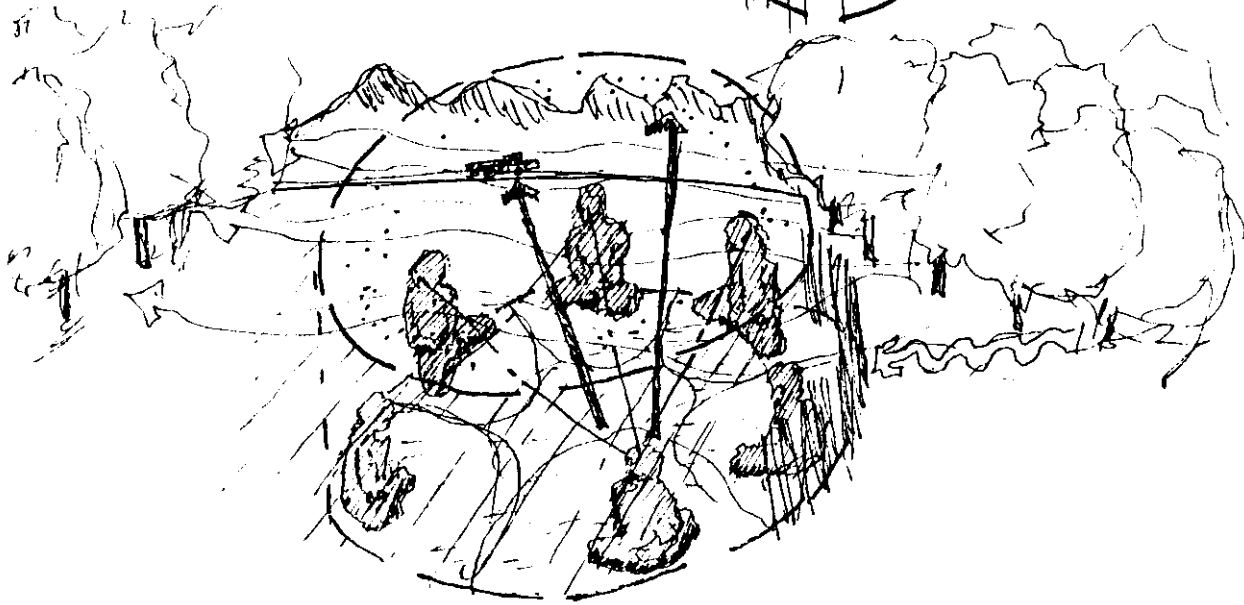
	mother	father	teenage boys	teenage girls	infants	pre-teen children	mother & father	mother & daughters	family	mother & women in social group (family)
conversation	indoors									
	outdoors									
entertainment										
bathting										
dining	indoors									
	outdoors									
food prep.	indoors									
	outdoors									
animals										
childrens play	indoors									
	outdoors									
sleeping	indoors									
	outdoors									
storage										
study										
dressing										
auto/parking										
craftwork	indoors									
	outdoors									
laundrying										
"porch sitting"										
receiving formal guests										
receiving informal guests										
gardening										

# CONVERSATION

AFACHES LIKE  
TO SIT ABOUT  
THE PERIPHERY  
OF THE ROOM,  
AND, ESPECIALLY  
WHEN VISITORS  
CALL, TO HAVE  
AMPLE DISTANCE  
BETWEEN ONE  
ANOTHER

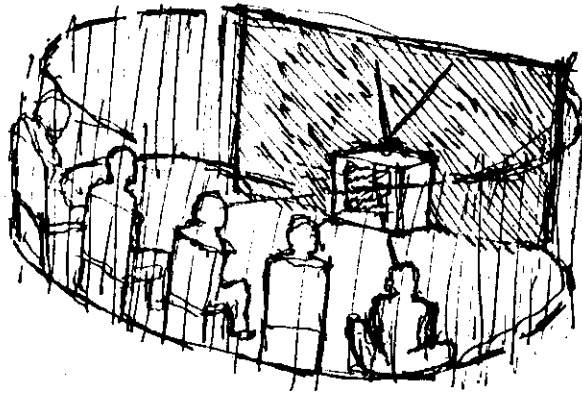


INDOORS



OUTDOORS

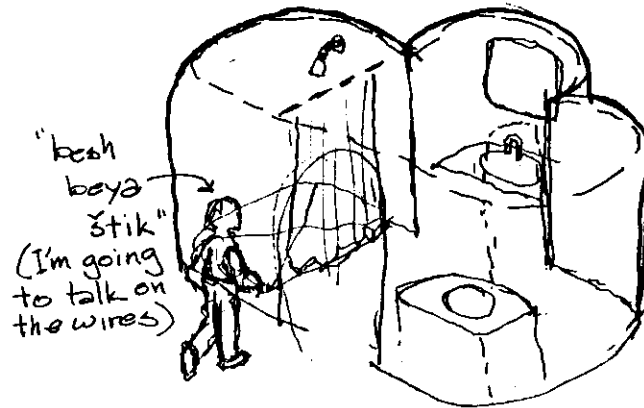
# ENTERTAINMENT



Television and  
Radio are in  
vogue in the  
camps.

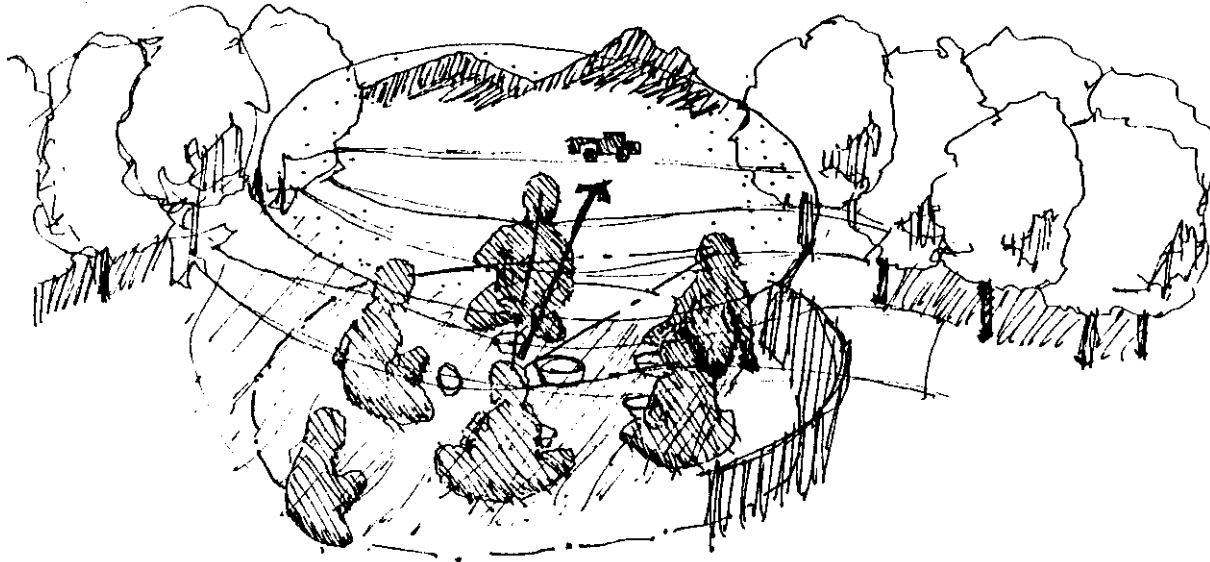
## Bathing Etc.

- Bathrooms are considered more public than bedrooms
- Indoor plumbing is one <sup>(EAGER)</sup> of the prime motivations for new housing.

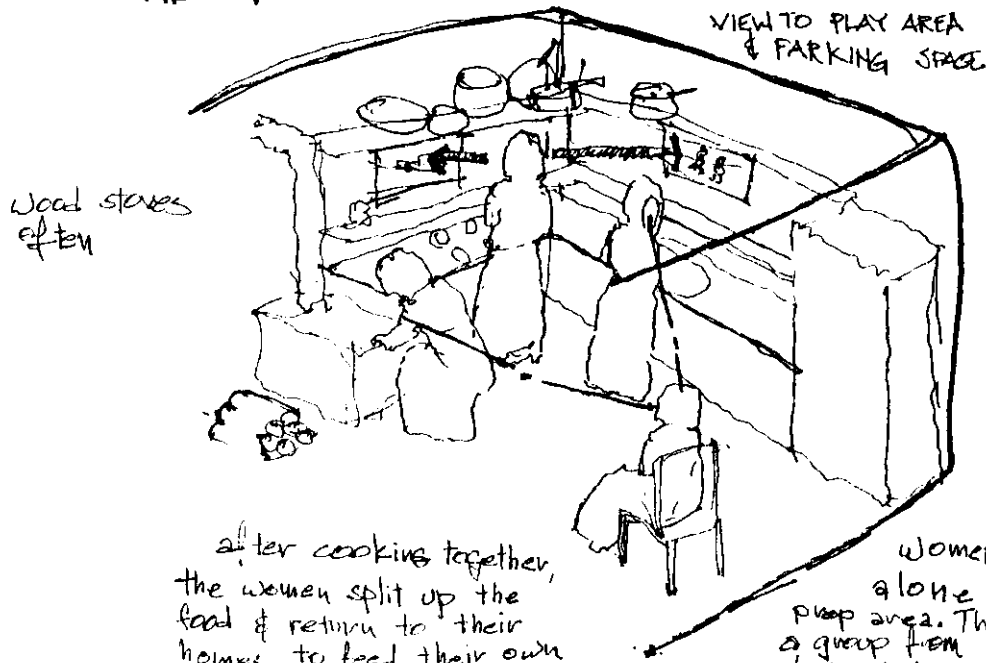


- With the probability of large families, a bath area that can accommodate 3 activities by 3 individuals might help avoid confusion in the morning.

# EATING OUTDOORS



# FOOD PREPARATION INDOORS



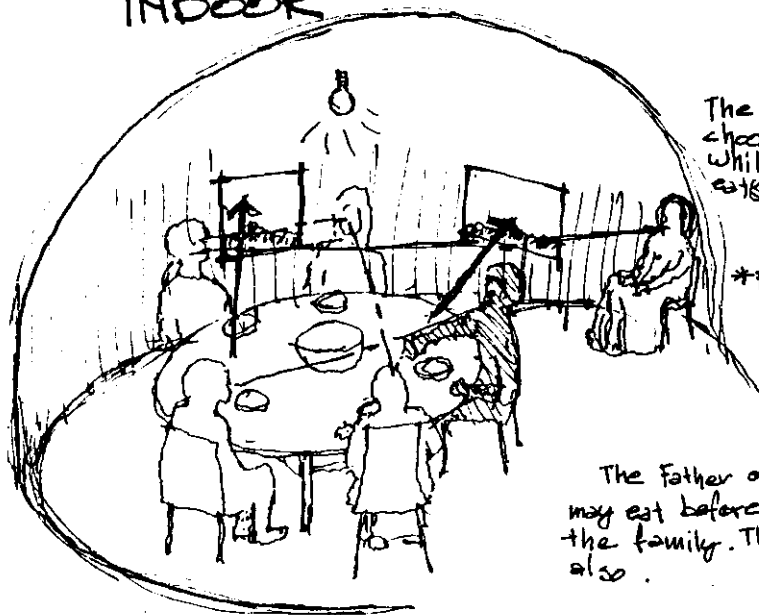
Wood stoves  
often

VIEW TO PLAY AREA  
& PARKING SPACE

after cooking together,  
the women split up the  
food & return to their  
homes to feed their own  
families.

women are never  
alone in the food  
prep area. There is always  
a group from the family  
cluster, helping or sitting  
nearby socializing.

# EATING INDOOR



The women of the house may choose to sit in the background while her guests or her husband eat(s) first. This is traditional (ESBER)

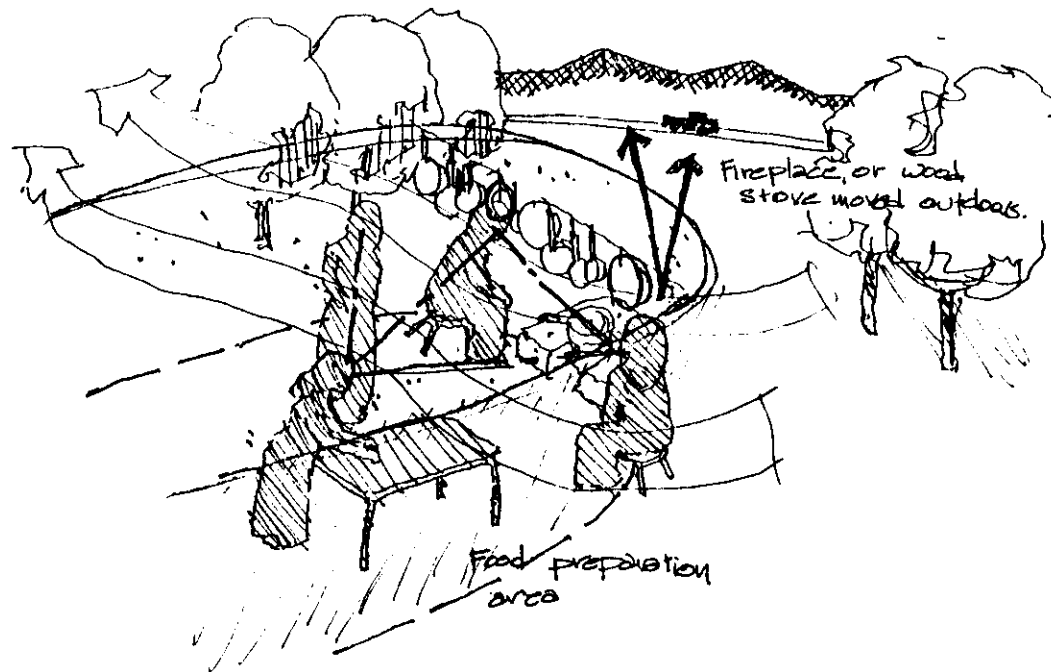
\*privacy contact

The father of the family may eat before the rest of the family. This is traditional also.

(Mails)

Conversation may or may not occur during the meal, but talk flows freely around the table afterwards. (ESBER)

# OUTDOOR FOOD PREP.



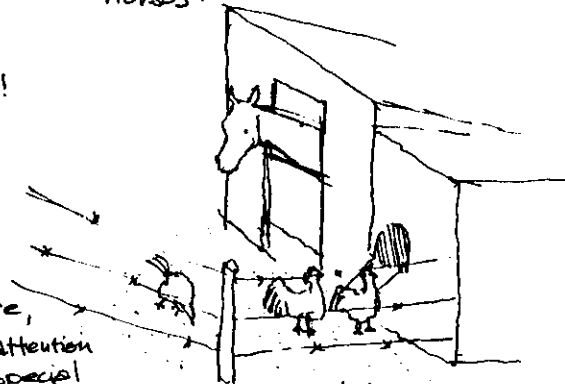
## ANIMALS.

ALTHOUGH many families own cattle, these are kept with a collective tribal herd. The herd needs to be kept out of the community.

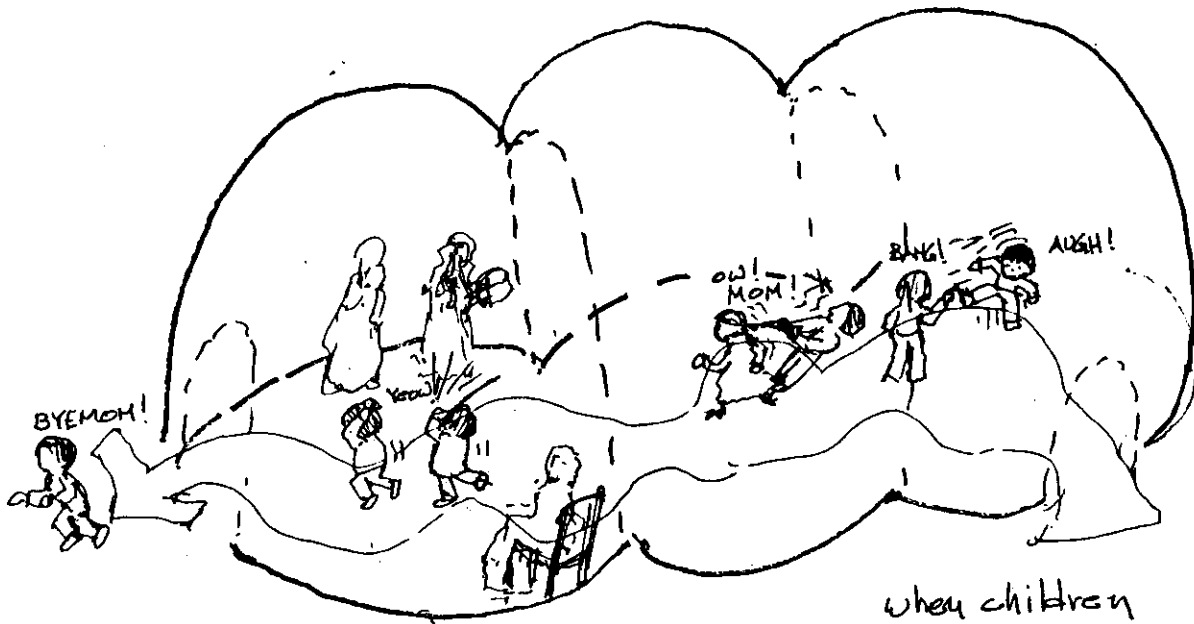


Dogs are everywhere, but aren't given caring attention and they don't rate any special facilities.

Enclosures must be provided for the few barnyard animals and for those who can afford horses.



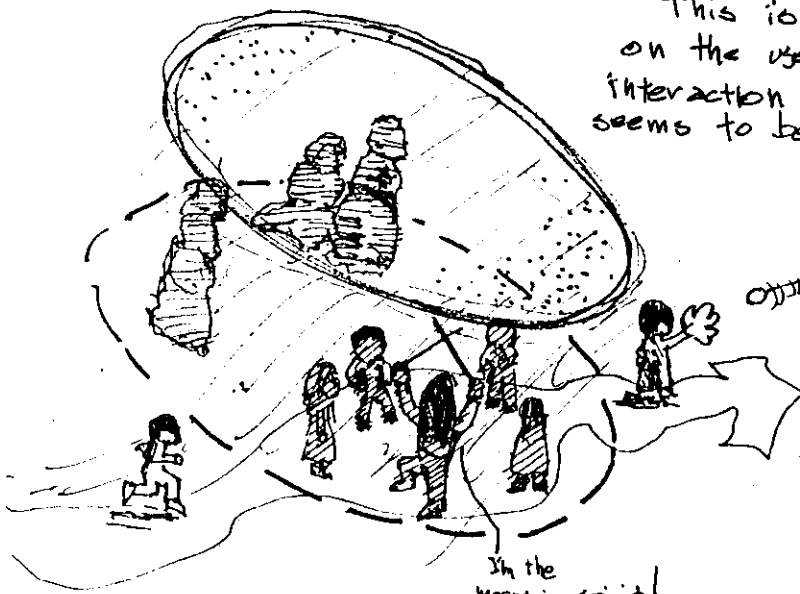
# CHILDRENS PLAY, INDOORS



When children play indoors, they continually run in, out, and through the social spaces of the house. (Egger)

This is consistent with ideas on the use of space for social interaction during the day, and seems to be acceptable to all concerned.

# OUTDOORS

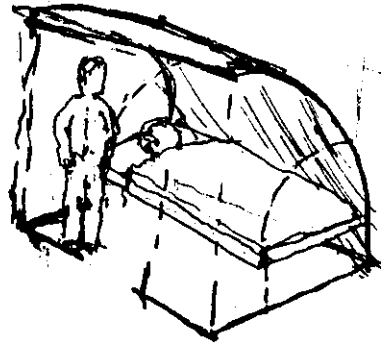


In the summer, children are apt to play in and about the shade their mothers are working in. (Basso)

In the mountain spirit!

# SLEEPING.

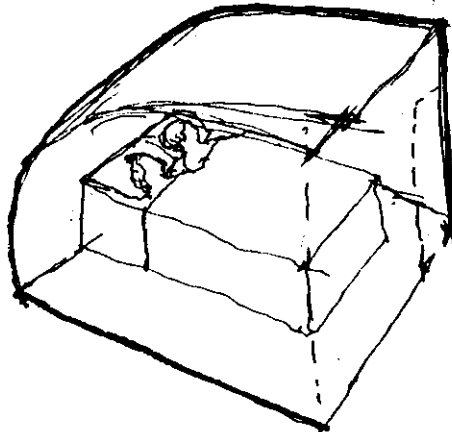
children.



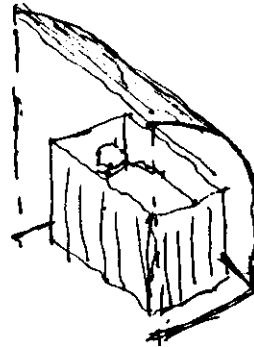
"There is not a great deal of concern over places for sleeping. Such spaces may or may not be delineated as bed rooms. . . . . Where families have built separate bed rooms, which are appreciated for the privacy they are used exclusively as bedrooms not as places where individuals may go to spend time alone. . . . . Activities that occur during the awakening hours are given to social interaction, while sleeping is a personal matter that is paid little mind."

George Salovey  
Esber.

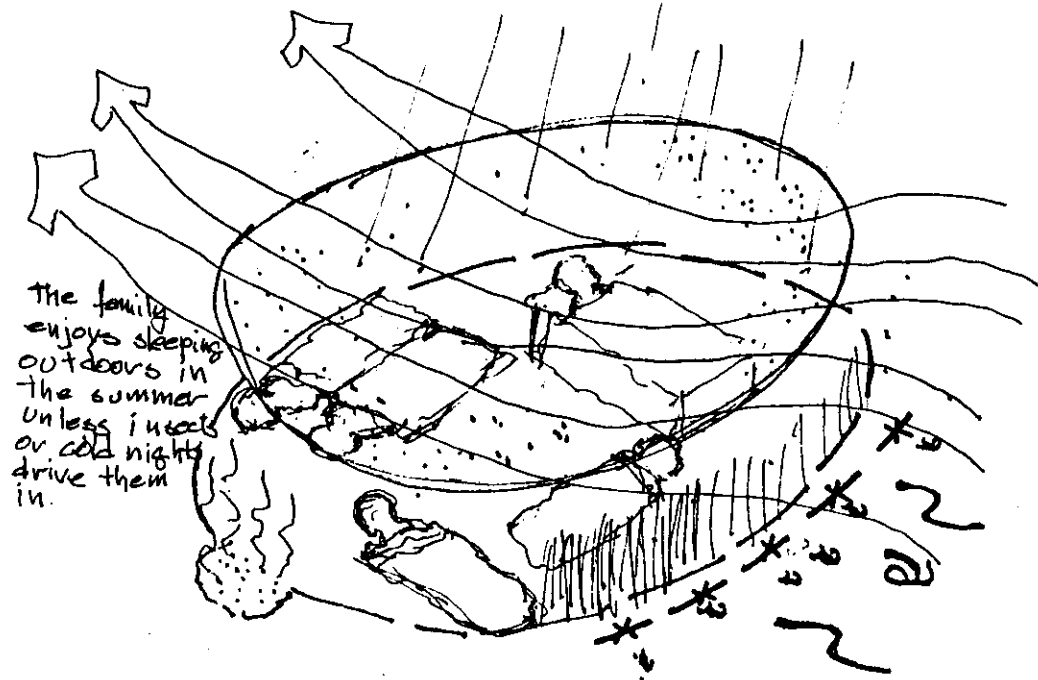
couple



infant



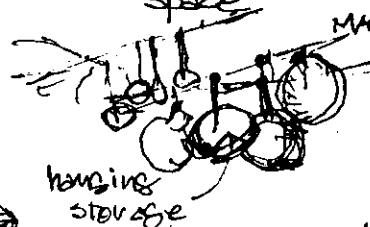
# OUTDOOR SLEEPING



The family enjoys sleeping outdoors in the summer unless insects or cold nights drive them in.

# STORAGE

"Working-class families tend to save and repair material possessions, a practice that requires considerable storage space"



"If I were to have a new house I would want two big rooms, one to live in, and one to store my things in."

Anonymous Apache

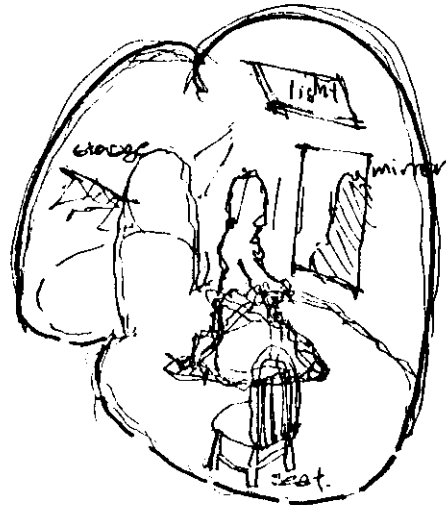
# STUDY



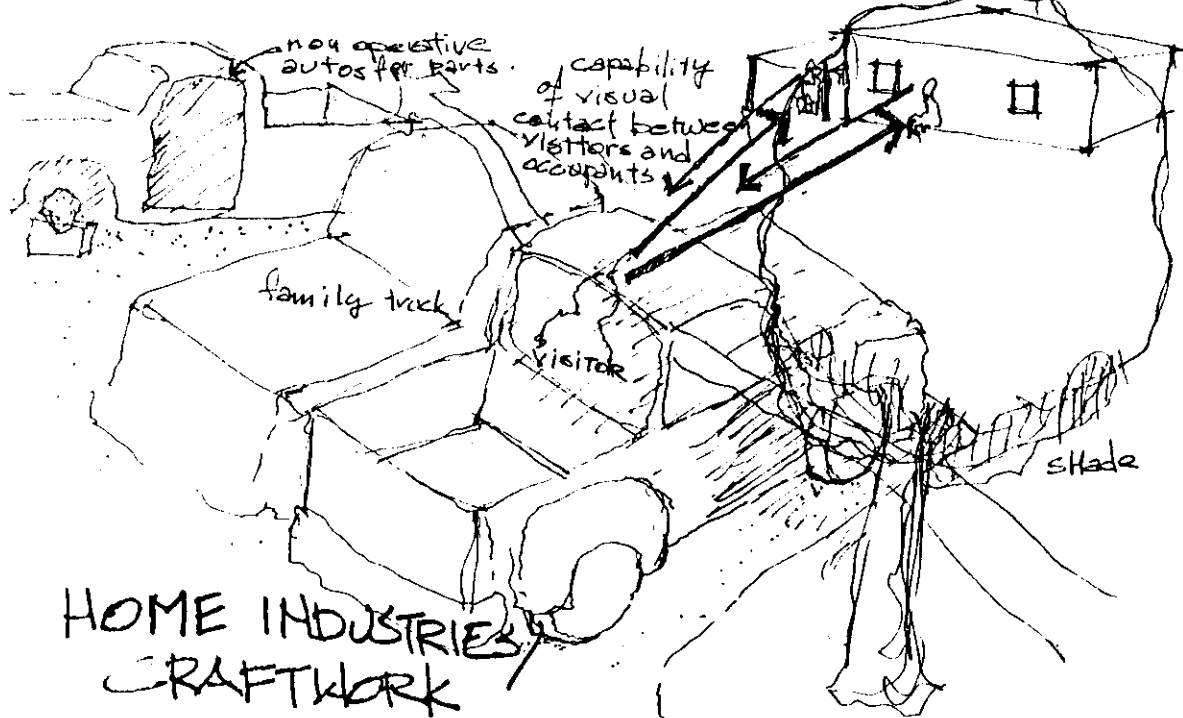
•The need for students to study at home creates a dilemma. Study is best accomplished in privacy ..... but it is not considered acceptable for the young Apache at home to be in a private space in the house during the waking hours.. It is considered a sign of illness. Possible resolutions:

1. Provide a somewhat more private space opening directly off of the social spaces
2. Provide space & facilities for study in the bedrooms, and trust that the students will take the initiative to deviate from accepted lifestyle in this instance.
3. Perhaps the student stays up later than others, and the day time social spaces become the study space
4. Perhaps time is provided to study during school hours, or facilities are opened after hours for study.

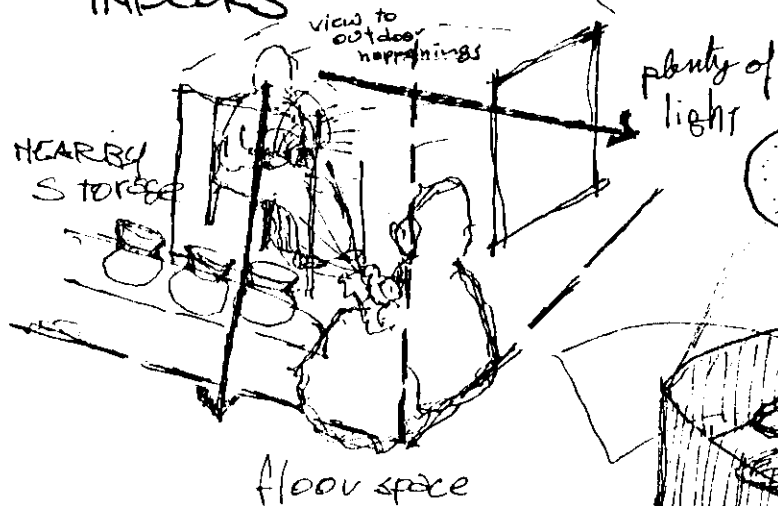
# DRESSING



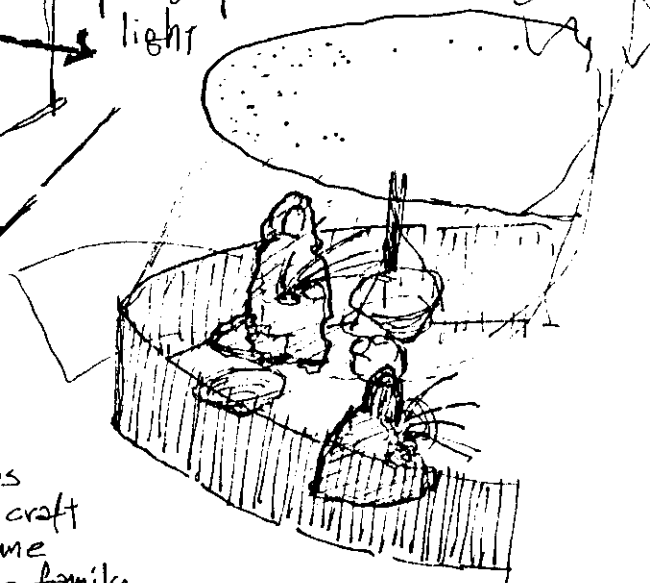
•dressing is considered an activity which merits private space.



HOME INDUSTRIES  
CRAFTWORK  
INDOORS



OUTDOORS



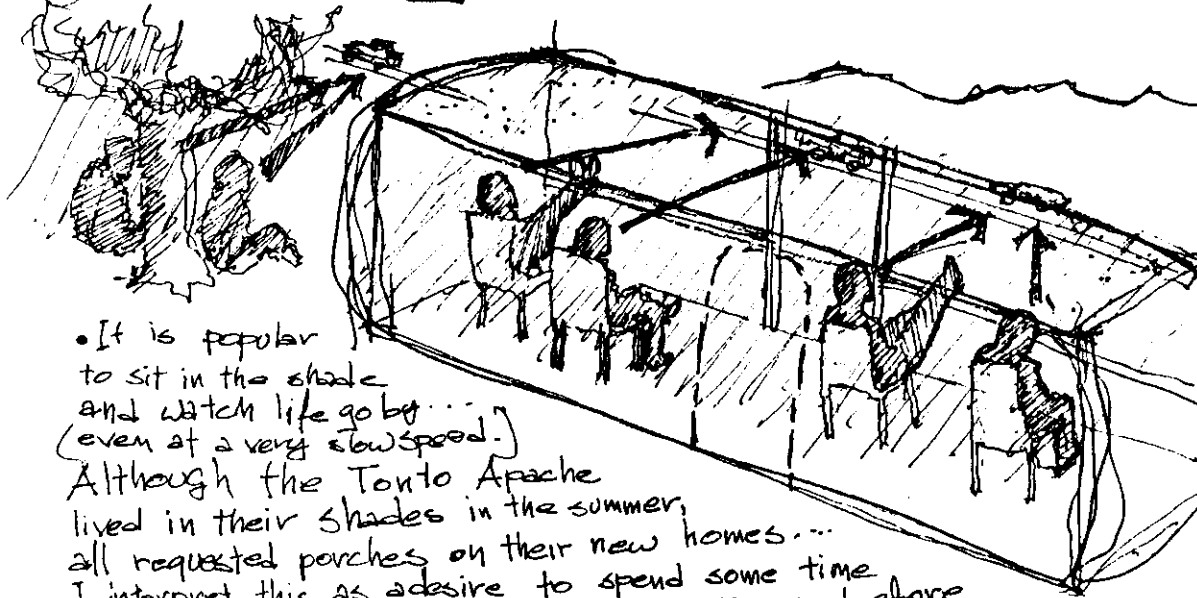
• Although people of San Carlos are less involved in Indian craft sales than other tribes, some people women supplement the family income by weaving baskets occasionally, weaving baskets, making Peridot jewelry, and perhaps beadwork.

# LAUNDERING



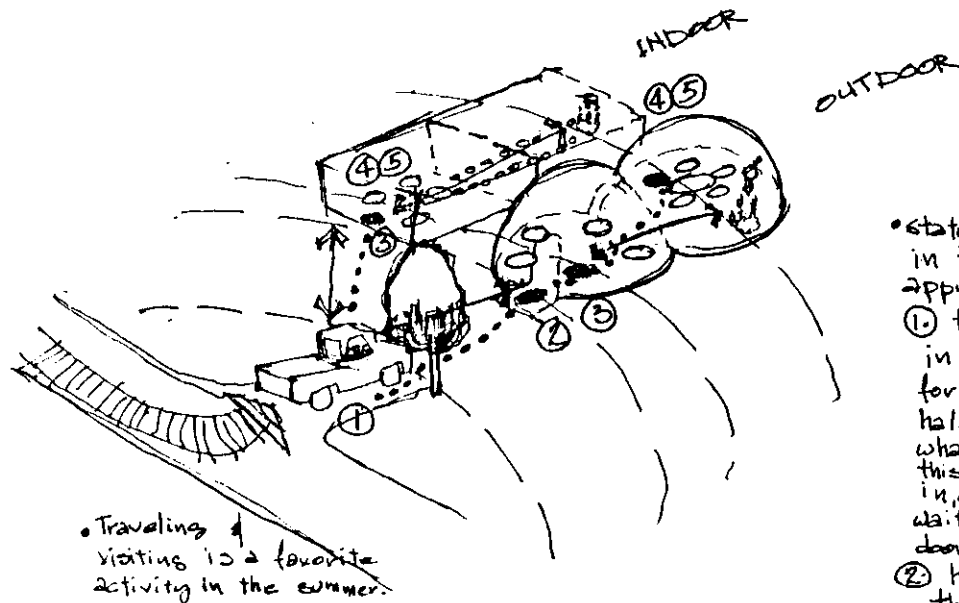
• Washhouse can be kept in a semi-enclosed protected space where the heat & clutter & mess will be out of the house. Again, there should be space for several women to work.

# "Porch Sitting"



• It is popular to sit in the shade and watch life go by... (even at a very slow speed.) Although the Tonto Apache lived in their shades in the summer, all requested porches on their new homes... I interpret this as a desire to spend some time outdoors in the shade in marginal seasonal times before... Also a transitional entrance.

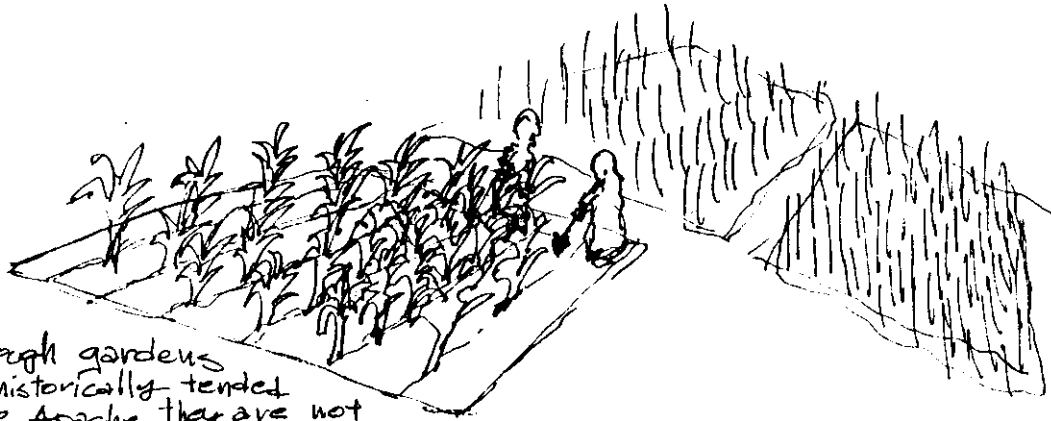
# QUESTS



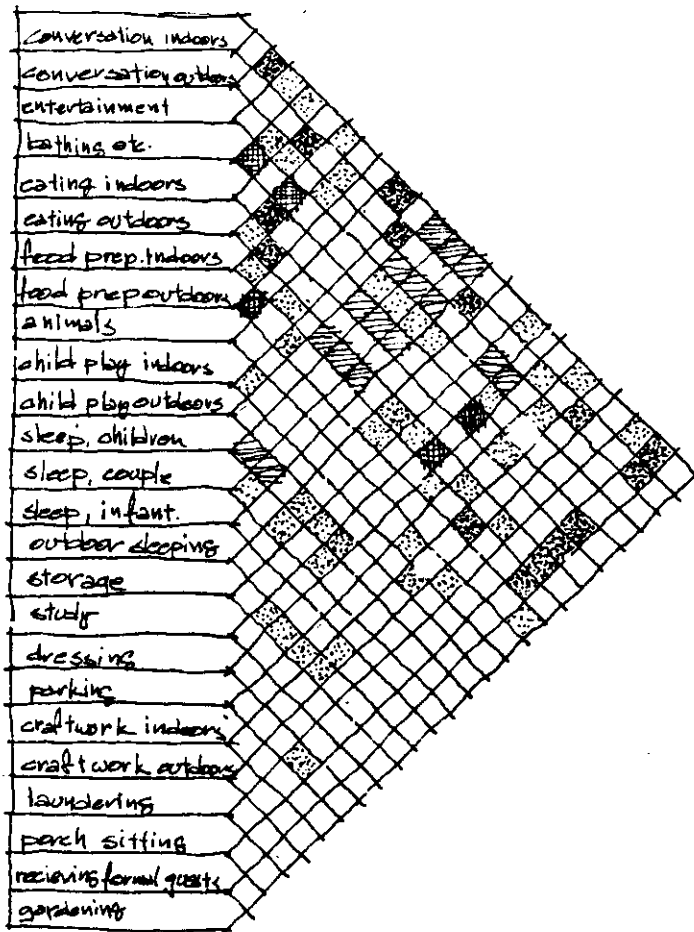
• station points  
in the "measured  
approach"

- ① the visitor sits in his parked vehicle for a few minutes to half an hour, watching what's happening. From this point, he is asked in, or after an adequate wait, proceeds to the door and knocks
- ② he knocks on the door if the occupants aren't outside and, if welcome, is asked to enter.
- ③ The guest seats himself in the first space he enters, in the seat closest to where he entered. The host family seat themselves around the periphery of the room, each maintaining ample distance between themselves and the persons seated to either side of them. A halted conversation takes place and if the host chooses to extend hospitality, asks if the traveler has eaten. If the guest wishes to honor the host's hospitality, he responds that he has not. The host then proceeds to the food prep area. Conversation may be maintained between the host & the guest. When the meal is prepared, the guest is asked to proceed to the food prep area.
- ④ during the meal, conversation may or may not take place. the host may join the table or sit in the background until the guest has eaten.
- ⑤ After the meal, the participants are free to sit around the space in which the meal was held and ~~and~~ talk and joke in a relaxed manner
- ⑥ At the appropriate time, the guest will be asked if he has a place to stay and be invited to spend the night. The guest will spend the night in an area less private than those the family stays in and will be served breakfast before departing

# GARDENING



• Although gardens were historically tended by the Apache, they are not very common among the San Carlos people. If they were kept, there would probably be small plots corresponding to the nuclear family, or common plots for extended families subdivided for nuclear families.



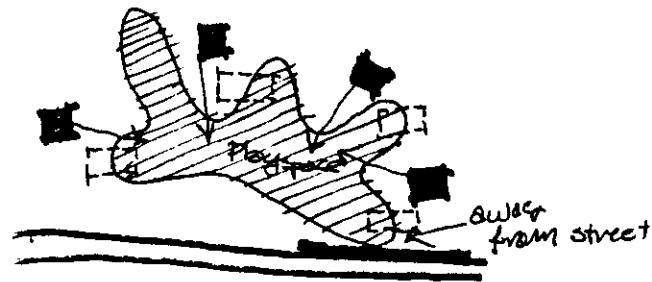
	extended family	women	men	grandmother	grandfather	unmarried adult sons	men who marry into Gota	daughters of matrilineal	children	matrilineal	matrilineal uncle	most experienced man
shared work		hatched	hatched									
communal cooking		hatched										
teaching younger members		hatched	hatched	hatched	hatched					hatched	hatched	
play								hatched	hatched			
heavy work for parent-in-laws							hatched					
aid to elderly	hatched											
leadership											hatched	
structure of Gota		hatched										
respect for elders								hatched				
respect for parent-in-laws							hatched		hatched			
evidence of mother in laws							hatched					
common relative to everyone in Gota										hatched		
localized settlement patterns	hatched											
gardening		hatched										
laundering		hatched										

### "Mother-in-law - Avoidance"

It is traditionally considered ~~the~~ respectful for men who marry into a Gota to avoid contact with his mother in law. For his ease, privacy should be maintained between his and his mother-in law's households by distance, or other means.

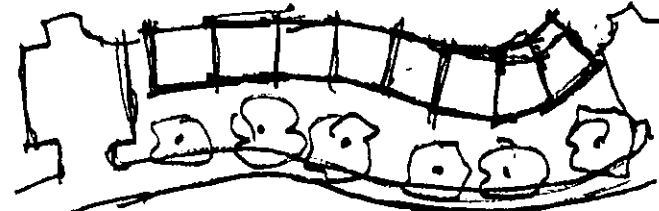
### 40. "Children's play"

There should be a common space for children of a Gota to play with each other, in safety & supervisable by mothers without being too inhibiting to the child. The space should be outdoors & include the nuclear family's outdoor space.



Community Behavioral Patterns	entire community	60s	61s	62s	63s	64s	65s
Education	1	2	3	4	5	6	7
creation Rates	8	9	10	11	12	13	14
movies	15	16	17	18	19	20	21
basketball	22	23	24	25	26	27	28
baseball	29	30	31	32	33	34	35
social dance	36	37	38	39	40	41	42
surprise dance	43	44	45	46	47	48	49
participation	50	51	52	53	54	55	56
Aid prepared	57	58	59	60	61	62	63
play	64	65	66	67	68	69	70
gossip etc	71	72	73	74	75	76	77
shopping	78	79	80	81	82	83	84
vehicle travel	85	86	87	88	89	90	91

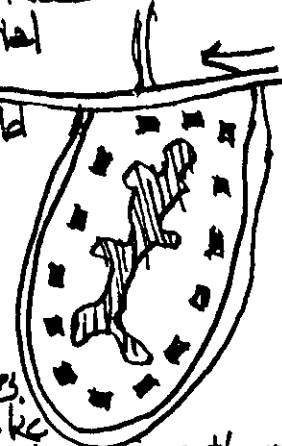
B1, B2, B3, Shopping.



A concentration of a few shops such as groceries, sundries, etc. perhaps some open stalls for people who want to get up to sell a few items.

B8, B9, 90. Roads ~~used~~ through residential

areas should be laid out so that they serve only ~~that~~ these residences. They should make "T" connections into major thoroughfares for safety. They by space



there is no established  
 pebbles dance ground. the site  
 is chosen at the time of the  
 dance. the camp of the girl in  
 the ceremony is considered first.  
 50 59  
 sunrise dance

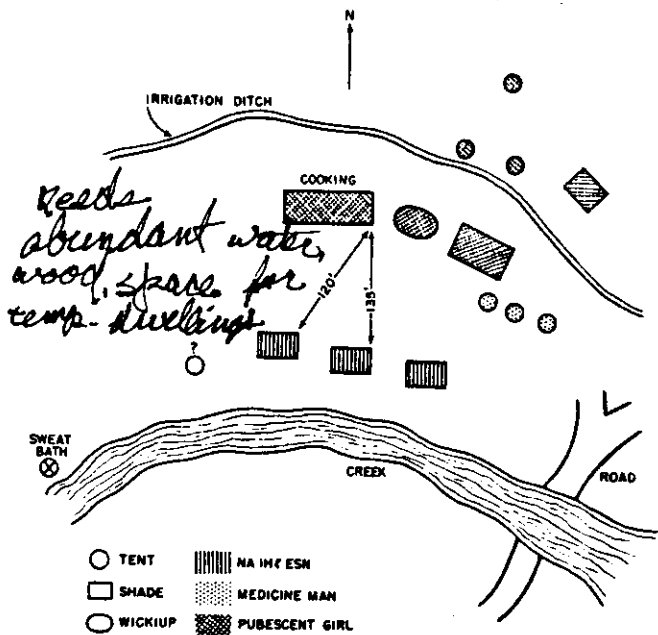
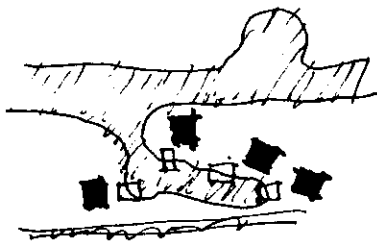


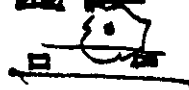
Figure 9. Western Apache danceground prepared for girl's puberty ceremonial.

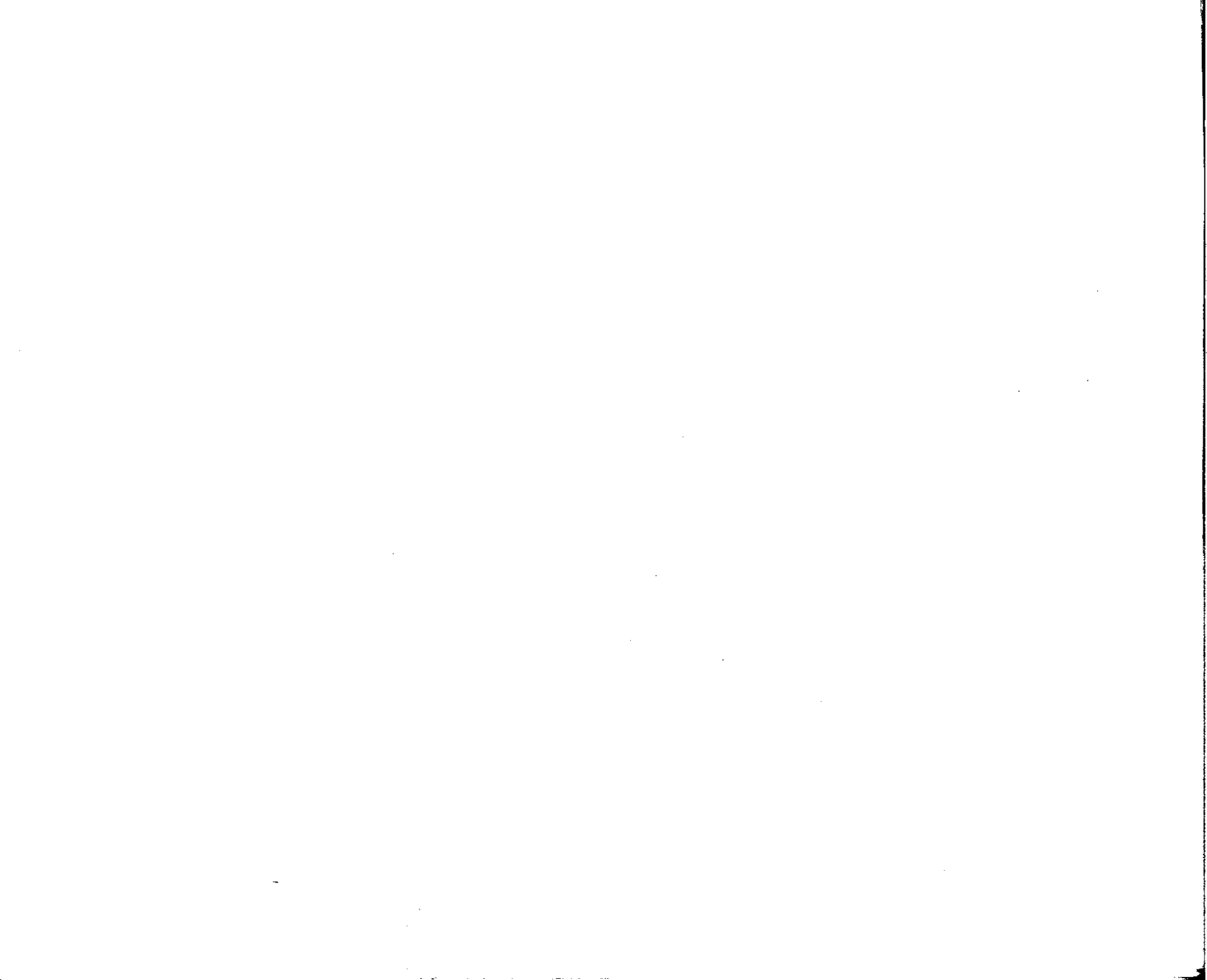


Provide outdoor safe  
 space, ~~playground~~  
 which connect the  
 play spaces of each  
 household or family cluster  
 & have playgrounds along the  
 way.

The ~~old trading post~~  
~~in San Carlos~~ was  
 & is a place where  
 relatives who don't normally  
 have contact w/ each  
 other in the daily routine  
 have periodic chance  
 meetings, on which  
 occasion they exchange  
 the latest gossip. A  
 common point, such as  
 the retail area, should  
 provide accommodations  
 for such exchange.

In San Carlos, the trees  
 which grow in a row  
 along the street, appear  
 to be an important place  
 for people to meet, sit  
 in the shade, or watch  
 life go by.

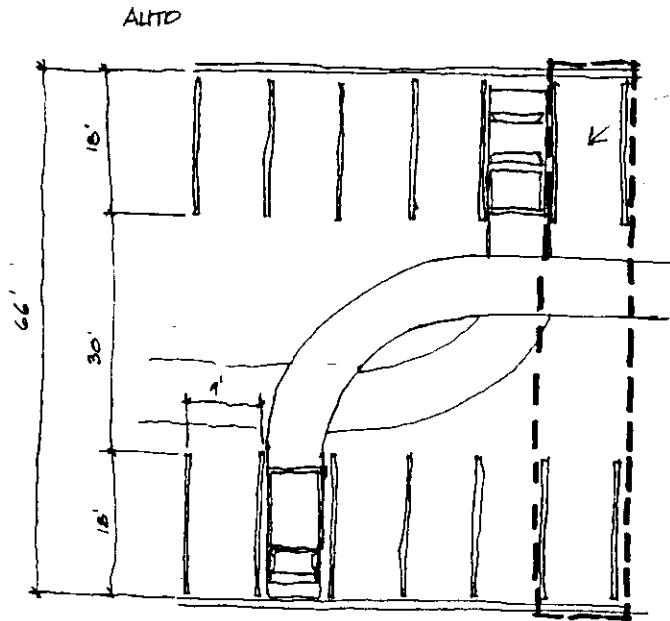




		PUBLIC RESERVATION	VISITORS	STUDENT STAFF	STUDENT BODY	STAFF	FACULTY	ADULT STUDENTS	FACULTY & ADMIN	FACULTY DEPT.	FACULTY INFORMAL	STUDENTS IN CLASS	STUDENTS CLASS	STUDENTS SMALL GRP	STUDENTS SMALL INFORMAL	CLASS INSTRUCTOR	STUDENT	TEACHER	STUDENT TEACHER	PRINCIPAL	OUNSELOR	SECRETARY	DIRECTOR
PARKING LOT	PARKING	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	SITTING & WAITING	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	PULSES	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
ENTRY	DROR OFF	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
	ENTER ACAD.																						
	ENTER ADM.																						
CLASS	ENTER SPORTS																						
	ENTER THEATRE																						
	WAIT/WATCH																						
BIOLOGY	SOCIALIZE																						
	SOCIALIZE OUTSIDE																						
	ENTRY																						
CHEMISTRY	LECTURE																						
	STUD. TEACHER CON.																						
	LAB WORK																						
FINE ART	PREP.																						
	LECTURE																						
	WORK																						
MUSIC	RESE																						
	REC																						
	RE																						
KITCHEN	DRA																						
	NG																						
	IC ARTS																						
FINING	PAI																						
	IG																						
	S																						
HOME "ARTS"	DIS																						
	Y																						
	ISS																						
CEREMONIAL	CERA																						
	ESS																						
	URE																						
DEPT. RESOURCE	WEARING																						
	JEWELRY																						
	STORAGE																						
ASSEMBLY	small group instruction																						
	INSTRUMENTAL																						
	CHORAL																						
THEATRICALS	LECTURES																						
	OFFICE																						
	SERVICE ACCESS																						
FILMS	STORAGE																						
	COOKING																						
	FREP.																						
CONFERENCE	SERVING																						
	DISH WASHING																						
	OFFICE																						
CONFERE	DINING																						
	SOCIAL ACTIVITIES																						
	SEWING																						
CONFERENCE	FOODS																						
	STORAGE																						
	HOME REPAIR MAINT																						

		ADMINISTRATION	ENTRY																					
BUSINESS	RECEPTION																							
	WAITING																							
	OFFICE																							
ATHLETICS	TYING & SHORTHAN																							
	ILE OFFICE MACHINE																							
	BOOK-KEEPING																							
INDUSTRIAL ARTS-METAL	GENERAL BUSINESS																							
	DATA PROCESSING																							
	DISTRIBUTIVE ED																							
WOOD	WORK-STUDY																							
	BASKETBALL																							
	VOLLEYBALL																							
POWER-MECH	WEIGHTS																							
	DRESSING																							
	SHOWERING																							
DRAFTING	EQUIP. STORAGE																							
	SUPERVISION																							
	PATHROOM																							
RESOURCES	MACHINING																							
	SHEET METAL																							
	BAR STOCK																							
CEREMONIAL	TUBING																							
	FOUNDRY																							
	FORGING																							
DEPT. RESOURCE	WROUGHT IRON																							
	METAL SPINNING																							
	WELDING																							
ASSEMBLY	STEEL FAB.																							
	WORK & ASSEMBLY																							
	TOOL STORAGE																							
FILMS	HEAT TREATMENT																							
	LECTURE																							
	METAL STORAGE																							
CONFERENCE	ELECTRICAL WORK																							
	CABINET WORK																							
	FURNITURE CON																							
CONFERE	WOOD TURNING																							
	CARPENTRY																							
	AUTORENINE REPAIR																							
CONFERE	DRAFTING																							
	BLUE PRINTS																							
	STACKS																							
CONFERE	INFORMAL READING																							
	REF. STORAGE																							
	RESERVE STORAGE																							
CONFERE	SEMINAR																							
	OFFICE																							
	CIRC. DESK																							
CONFERE	PERIODICAL STOR.																							
	PASSEBALL																							
	SWIMMING																							
CONFERE																								

# "PARKING LOT"



area for two vehicles + access - 594<sup>#</sup>

# of vehicles - 170  
(from table, timesaver standards)

$$170 \div 2 = 85$$

$$\times 85$$

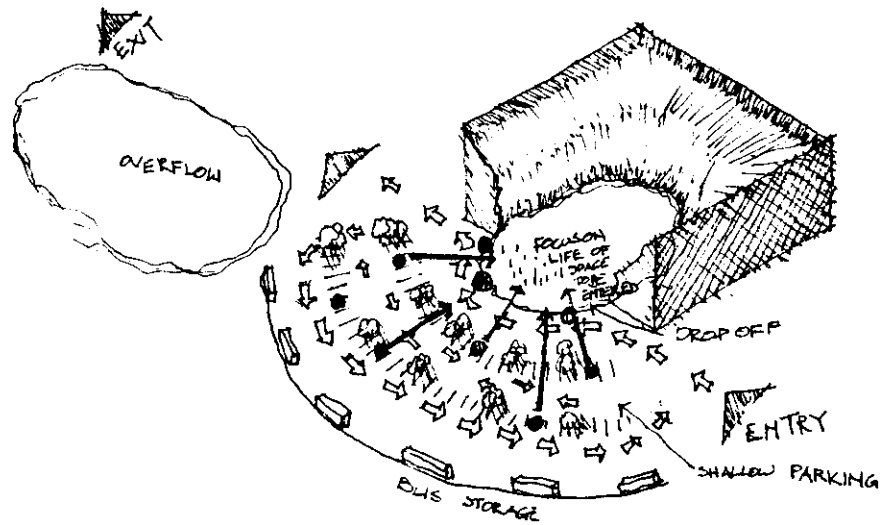
$$50,490^{\#}$$

+ circulation

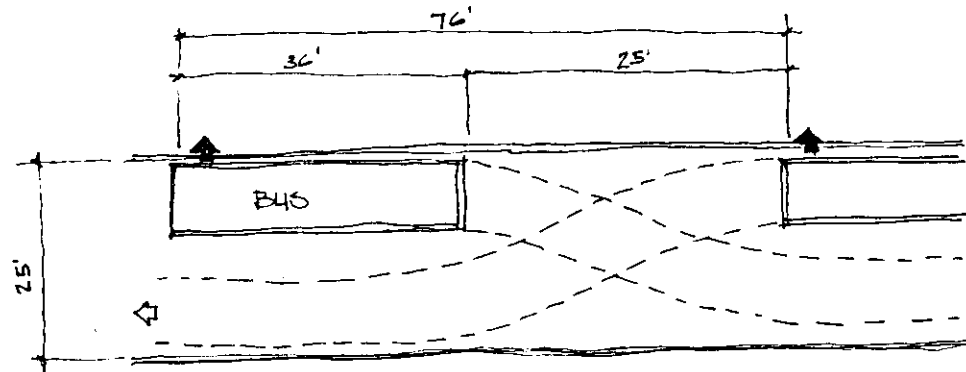
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+ unpaved  
overflow

---



## BUSES



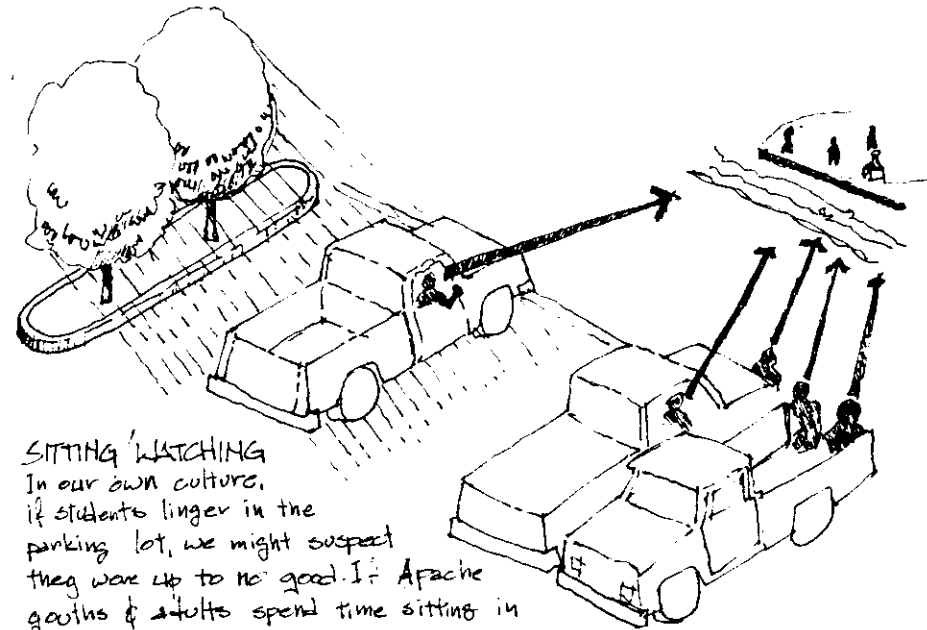
area - 1,700 SF / BUS

$$\begin{array}{r} \# \text{ of buses } 6 \times 6 \\ \text{C.T.S.} \quad \quad \quad 11,400 \end{array}$$

DROP OFF, will have similar requirements dimensionally.  
11,400 #

## AREA SUMMARIES

AUTO PARKING & CIRC.	50,490 #
BUS STORAGE	11,400
DROP OFF	<u>11,400</u>
	73,290 # + overflow.

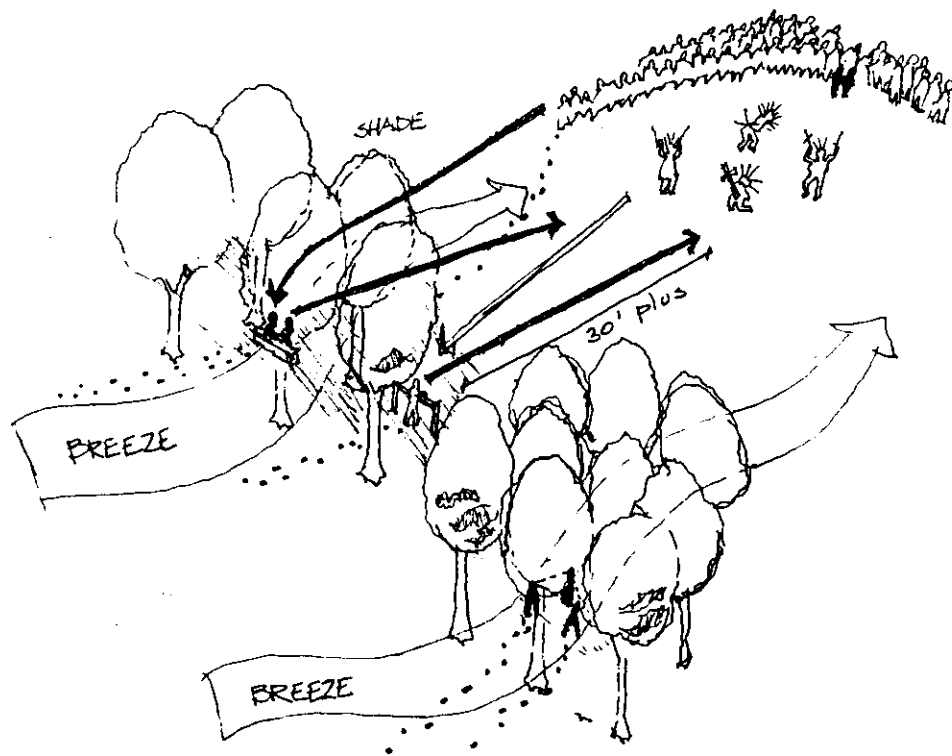


### SITTING WATCHING

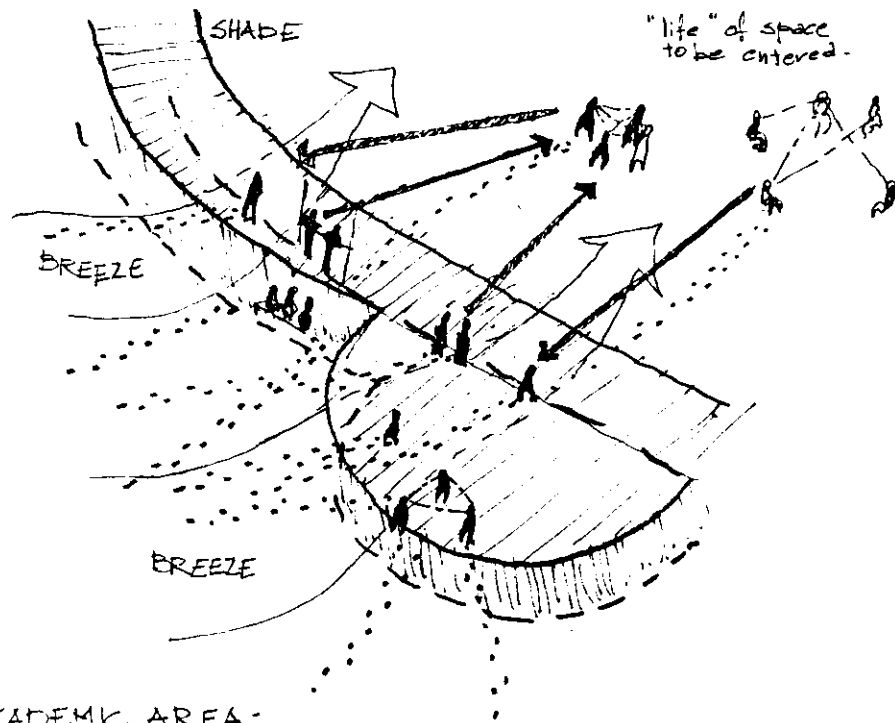
In our own culture, if students linger in the parking lot, we might suspect they were up to no good. If Apache youths & adults spend time sitting in their auto before entering the school, they might simply be observing Apache conventions on the proper slow paced and measured approach to an event. The parking lot should have a view and be a comfortable distance from the "life" of the next level of more private space. This will put limits on the depth & length of the lot & will strongly influence its relationship to other spaces of the school. It should be a "place" & provide shade for users.

# "ENTRY"

Entry is important as a place, marking the boundary between the space a person is in, and the next more private space. At such a place, the Apache student might pause for some time, focusing on the activities of the next space. This place would also be a place where friends and relatives would converge and socialize before proceeding further into an activity. People may

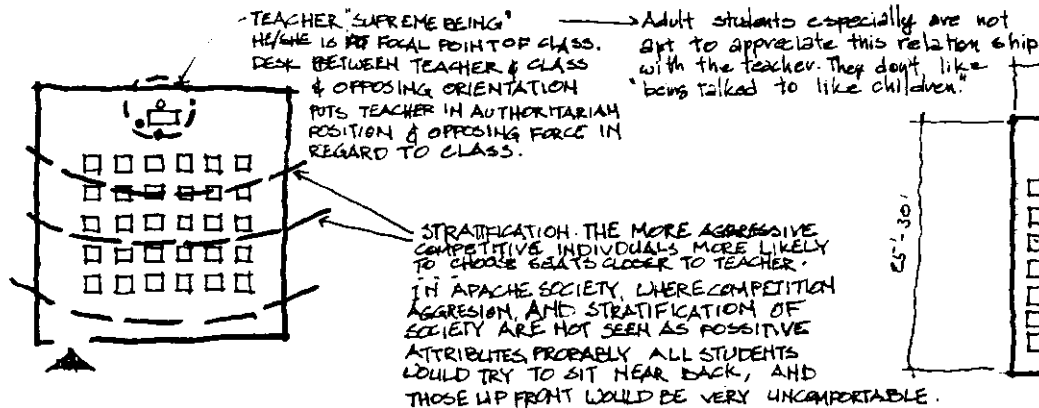


CEREMONIAL GROUND. - The boundary of the ceremonial ground should provide shade, places to sit, watch, socialize, in a natural setting.

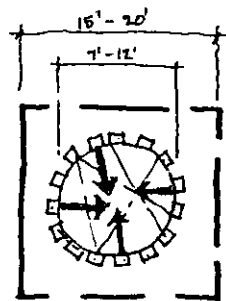


ACADEMIC AREA -  
A generous entry.

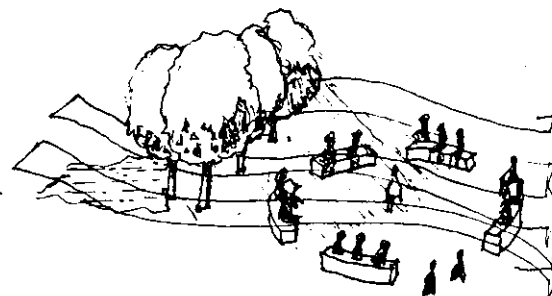
# "CLASSES"



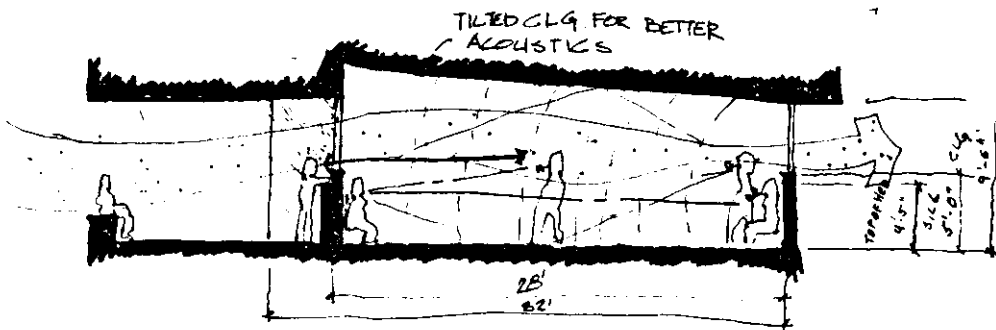
## TYPICAL CLASSROOM IN ANGLO SOCIETY



Classes requiring more  
intense participation  
& interaction may be of  
a smaller scale, and focus  
about the table.  
These might be satisfied  
with seminar rooms in the  
library.



Of course in such a mild climate, accommodations for outside classes would be nice, especially if partial protection or climate conditioning provided.

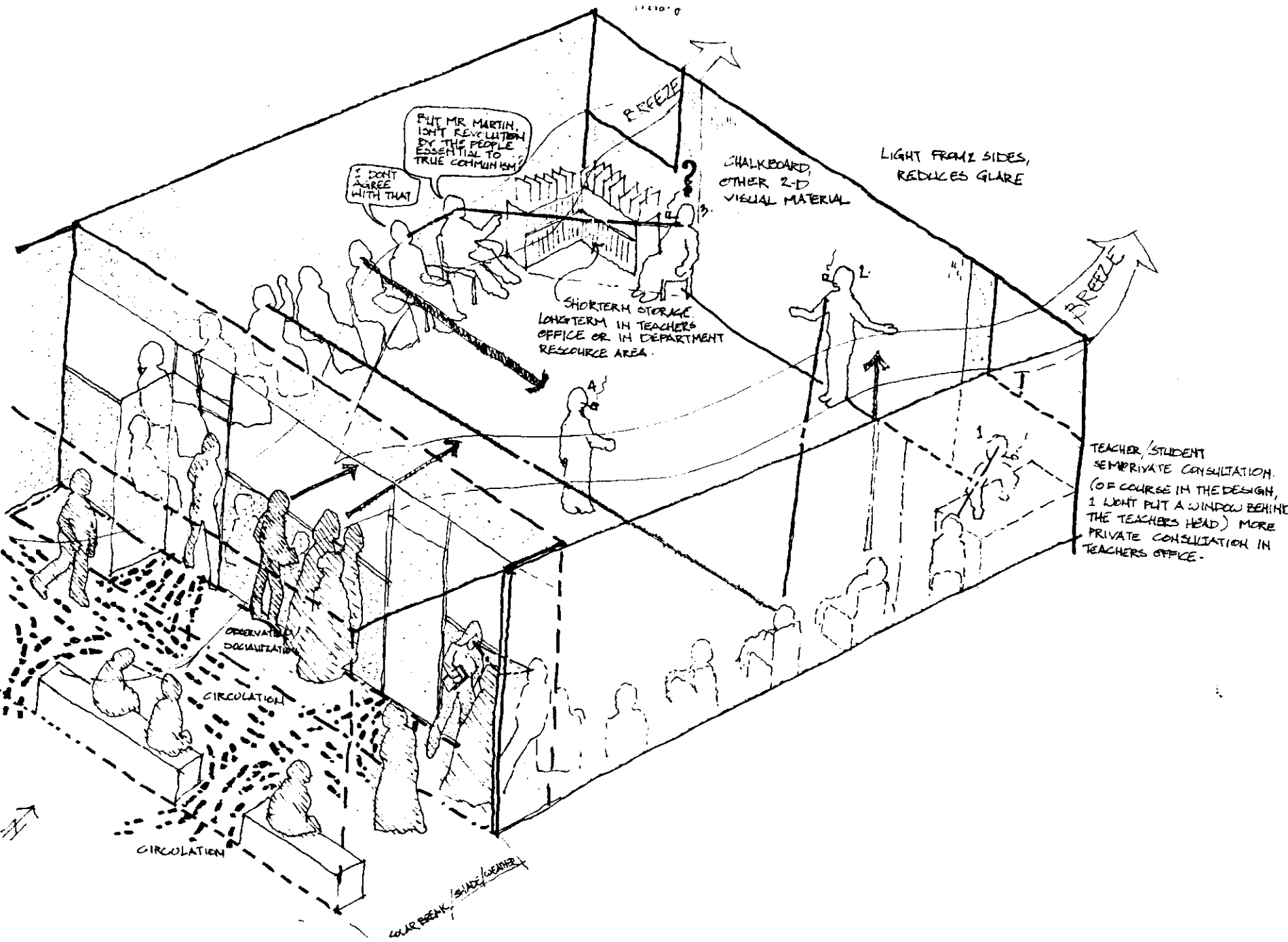


## AREA SUMMARIES

CLASSROOM  $32' \times 28' = 896' \times 8 \text{ rooms} =$   
 PARTITIONABLE CLASSROOMS  $32' \times 48' = 1536' \times 2 =$   
 OUTDOOR CLASS AREAS AV.  $100' \times 10' = 314' \times 5 =$   
 Small rooms (covered in library spaces)

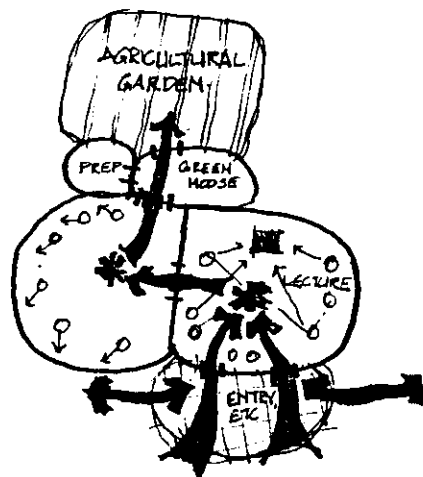
Total

8,896  
2,072  
1,570  
12,538

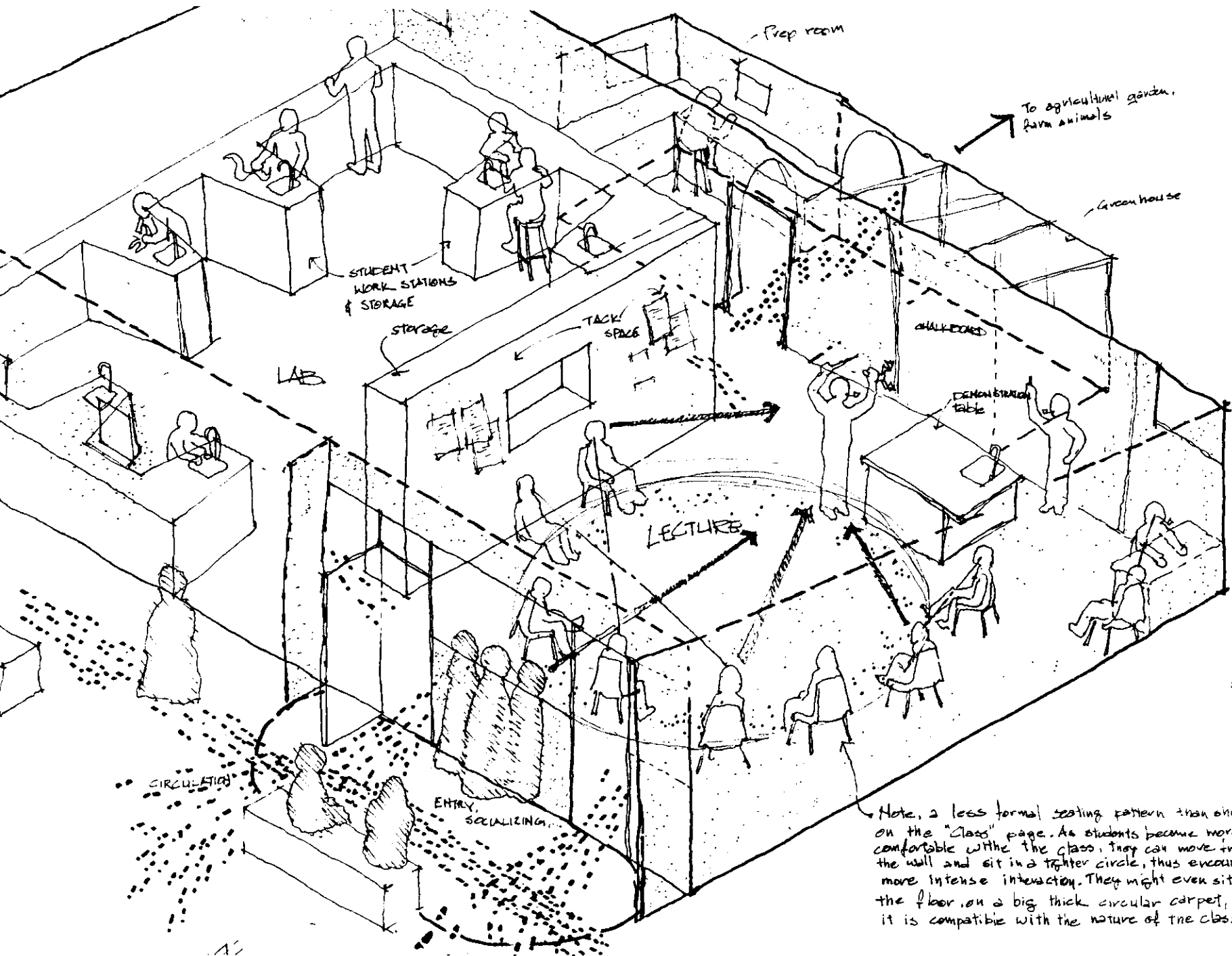


# "BIOLOGY"

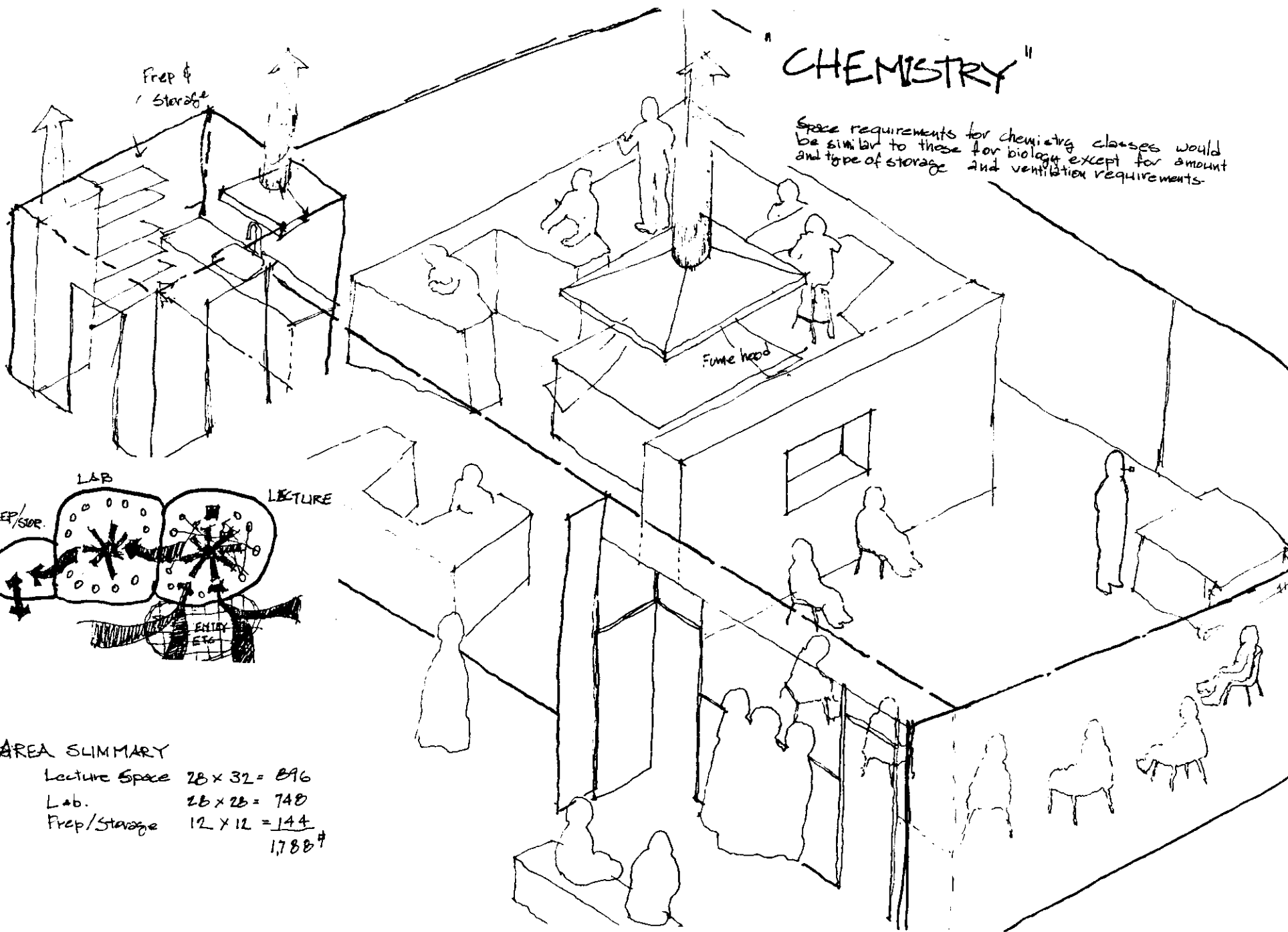
The space required for instruction in biology would include lecture space, similar to the generic class space previously dealt with, a laboratory with student work stations, prep area, and green house. The Biology department may also teach in areas relevant to reservation life, such as animal husbandry and small scale agriculture. The Biology & Chemistry classrooms would also be used for other science classes.



Lecture Space	$28 \times 32 = 896 \#$
Lab.	$28 \times 28 = 745 \#$
Prep Room	$8 \times 8 = 64 \#$
Green House	$8 \times 15 = 120 \#$
	<u>1,825 #</u>



Note, a less formal seating pattern than shown on the "Class" page. As students become more comfortable with the class, they can move from the wall and sit in a tighter circle, thus encouraging more intense interaction. They might even sit on the floor, on a big thick circular carpet, if it is compatible with the nature of the class.

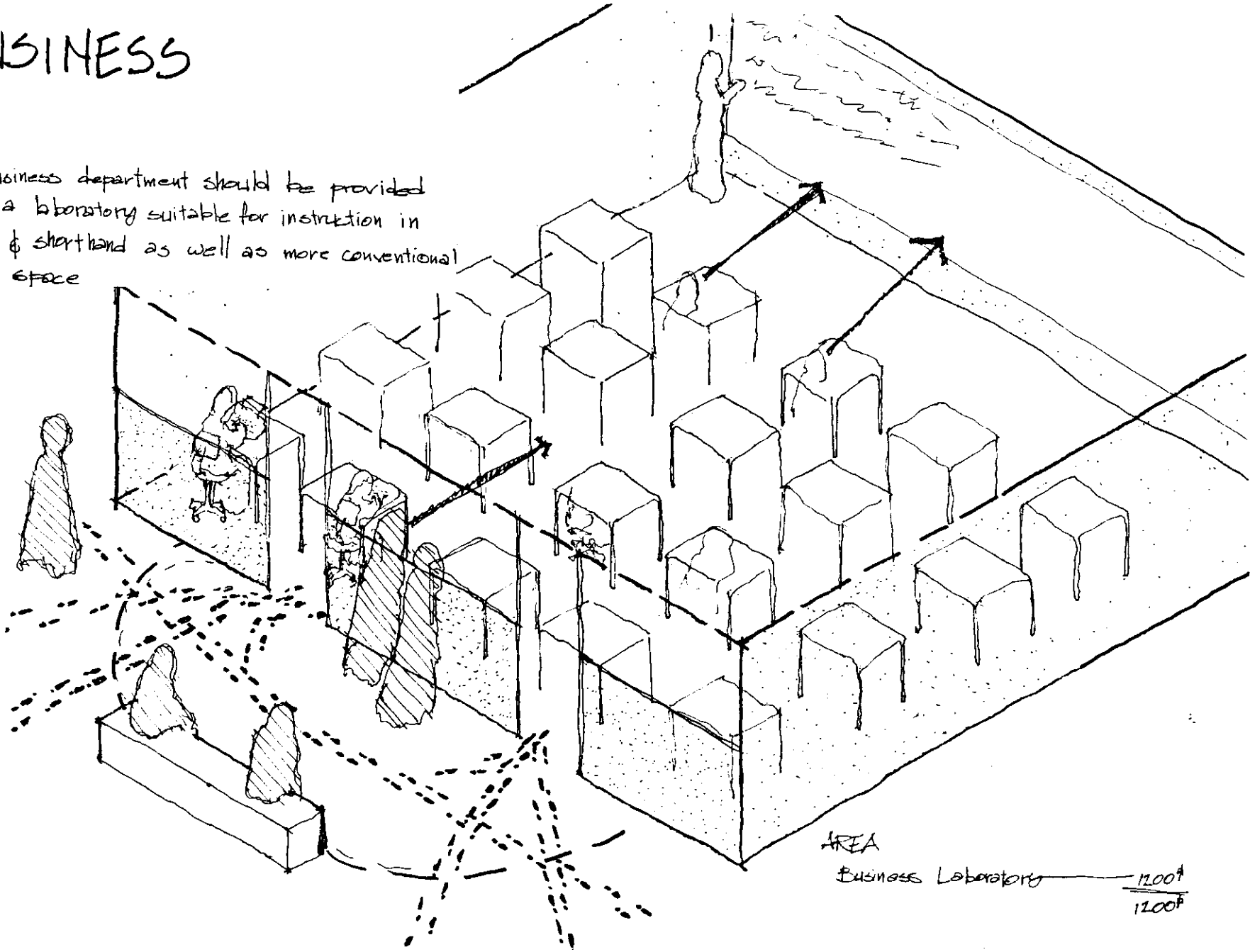


#### AREA SUMMARY

Lecture Space	$28 \times 32 = 896$
Lab.	$28 \times 28 = 784$
Prep/Storage	$12 \times 12 = 144$
	$1788 \#$

# BUSINESS

The business department should be provided with a laboratory suitable for instruction in typing & shorthand as well as more conventional class space



AREA

Business Laboratory

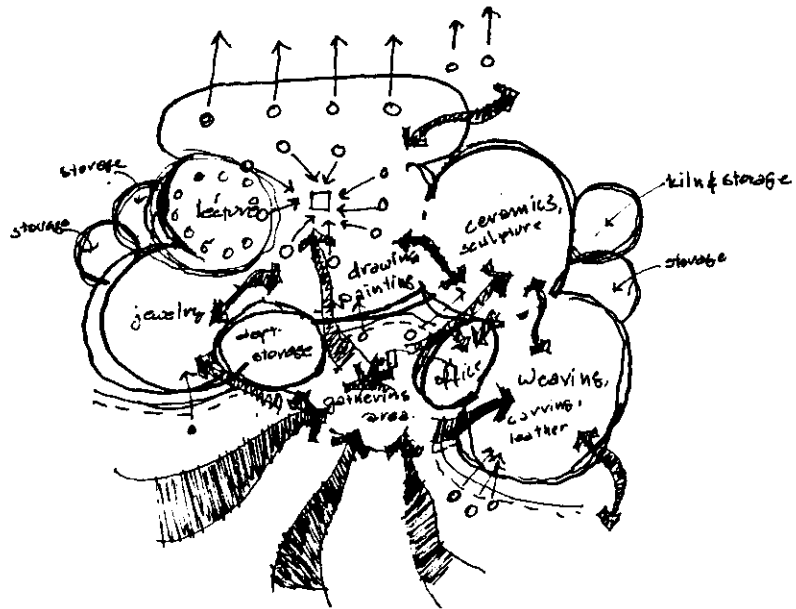
1200'  
1200'

# FINE ARTS

Some Apaches are involved in Indian art work as a means of supplementary income, predominantly in basket weaving, a traditional art form, and peridot jewelry. Some are involved in crafts as a means of producing useful household items such as water bottles. A few may be involved in the occasional production of ceremonial artifacts. The Art Department may be a center for exchange of community knowledge of traditional and ceremonial arts and crafts as well as a center for expanding the community's artistic involvement.

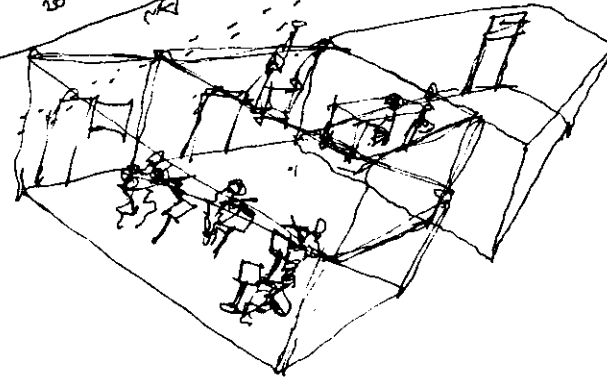
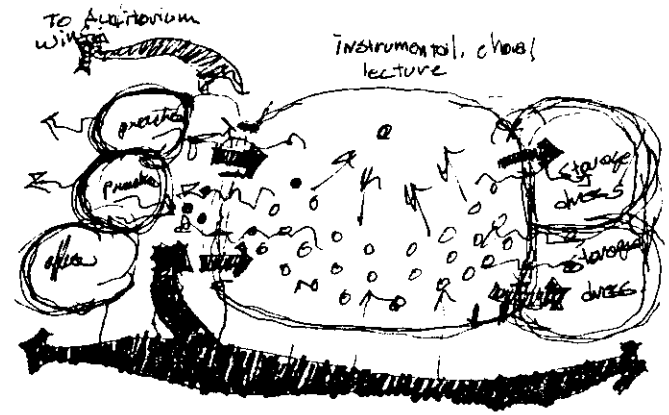
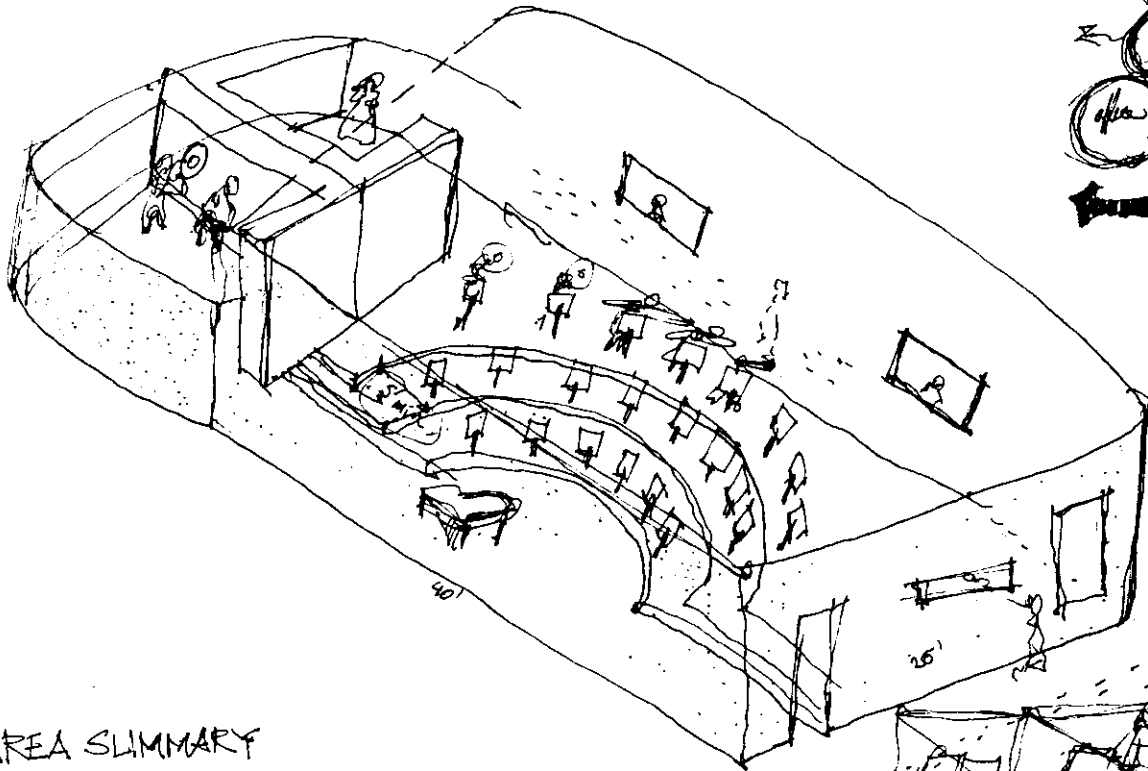
## AREA SUMMARY

painting / drawing	_____	900#
storage 6x10	_____	60#
Throwing	15x20	300#
knitting	15x20	300#
mixing	12x12	144#
storage	12x12	144#
kilns	15x12	400#
weaving	_____	180#
storage 5x12	_____	96#
office 8x12	_____	96#
dept. storage 8x12	_____	400#
jewelry storage 6x6	_____	36#
lecture	_____	400#
		<u>3,636#</u>





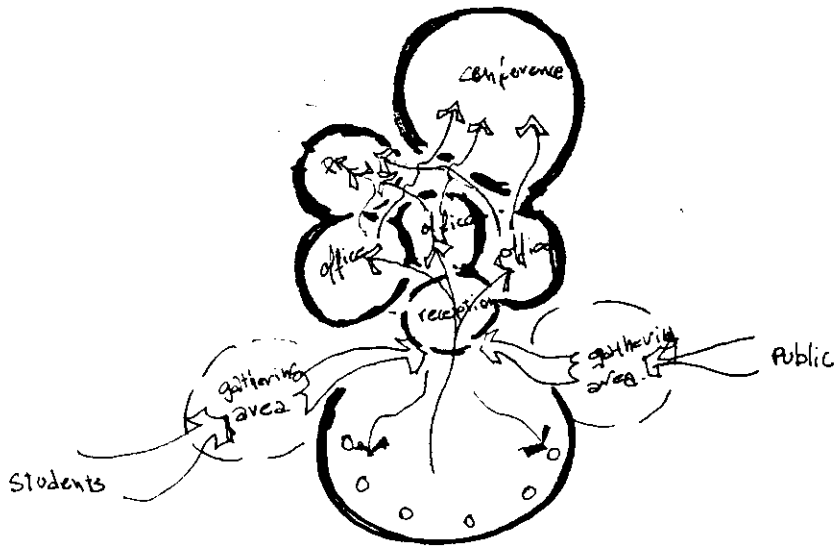
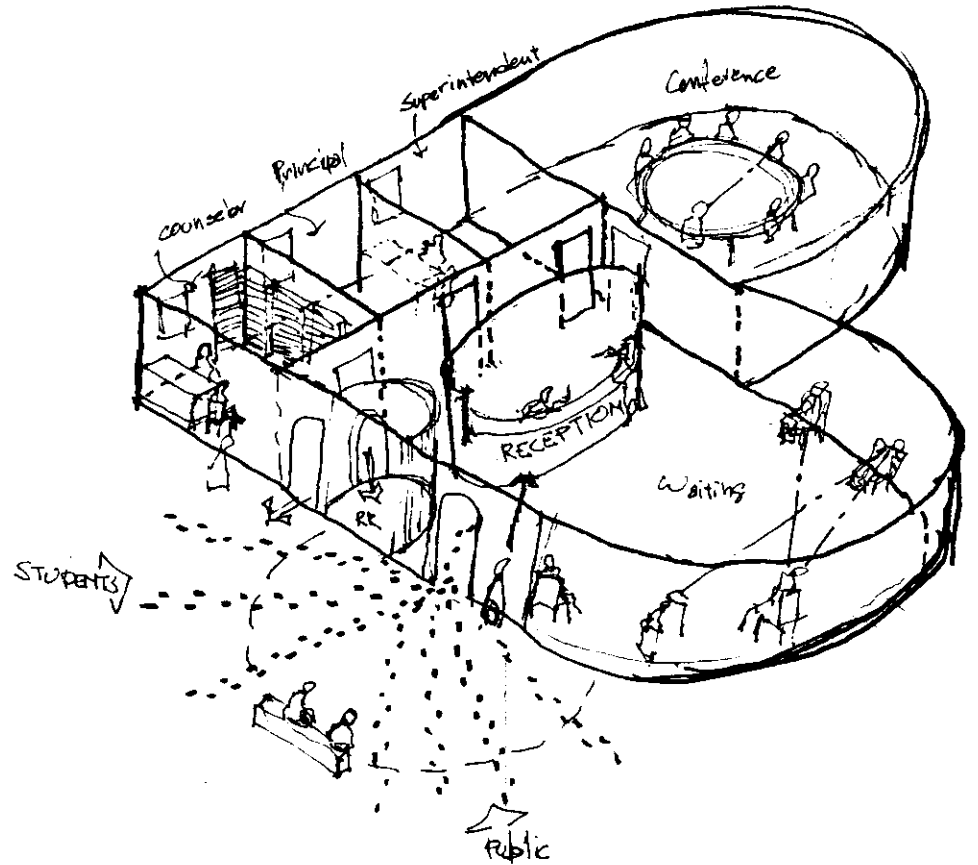
# MUSIC



## AREA SUMMARY

Instrumental, choral, lecture	1000 sf
Practice #1	60 sf
Practice #2	120 sf
office	96 sf
storage/dressing #1	180 sf
storage/dressing #2	180 sf
	<hr/>
	1636 sf

# ADMINISTRATION

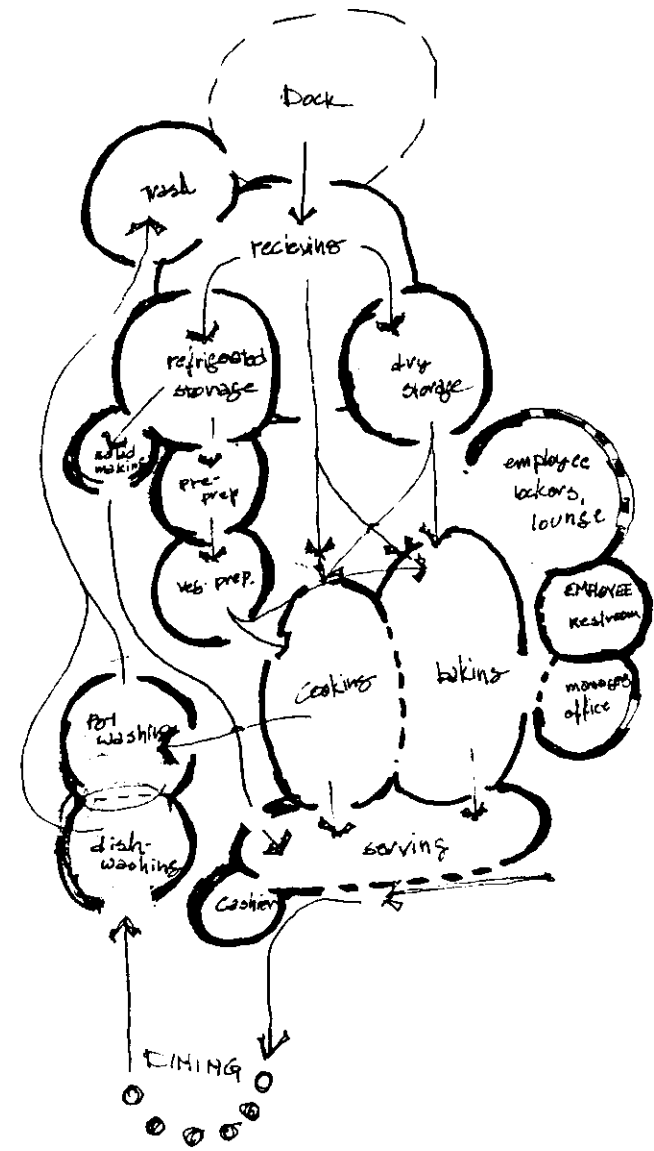


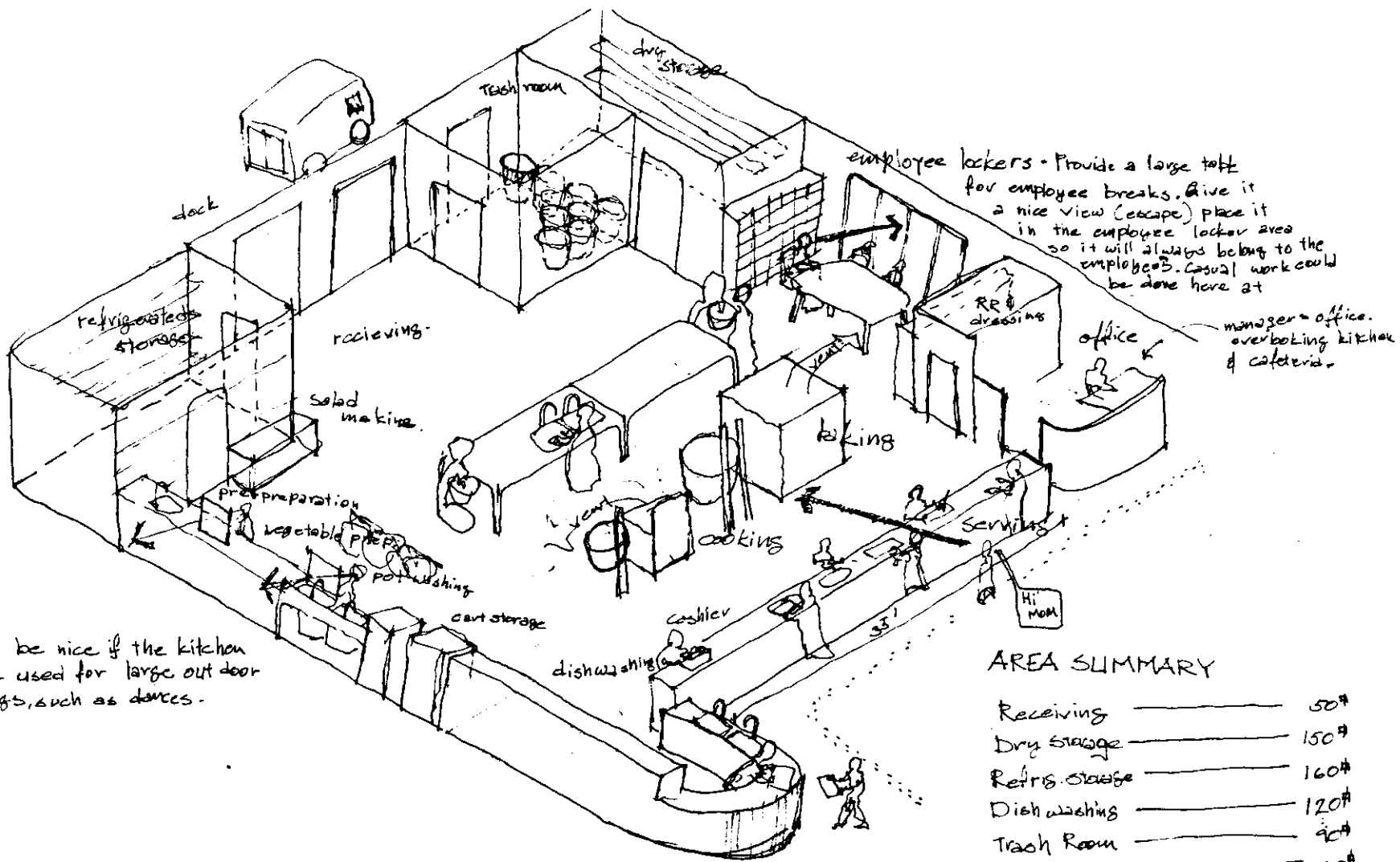
## AREA SUMMARIES

Reception	_____	48#
Waiting	_____	400#
Conference	_____	400#
Rest room	_____	40#
Offices 120 x 3	_____	360#
		<u>1248#</u>

# KITCHEN

The separation of kitchen and dining spaces was introduced in American homes because of servant labor. The concept of separation is magnified in scale & sterility in the institutional kitchen. Often, the kitchen is separated from dining by a 3'-0" door, sometimes factory assembled trays mechanically appear from a hole in the wall. Fortunately, there is no precedent for separate kitchen and dining facilities in Apache domestic architecture. Although clearly marked territories will help avoid confusion in the preparation of large meals, lack of visual and acoustical separation will improve working conditions for kitchen help, without having a negative effect on the dining atmosphere.





It would be nice if the kitchen could be used for large outdoor gatherings, such as dances.

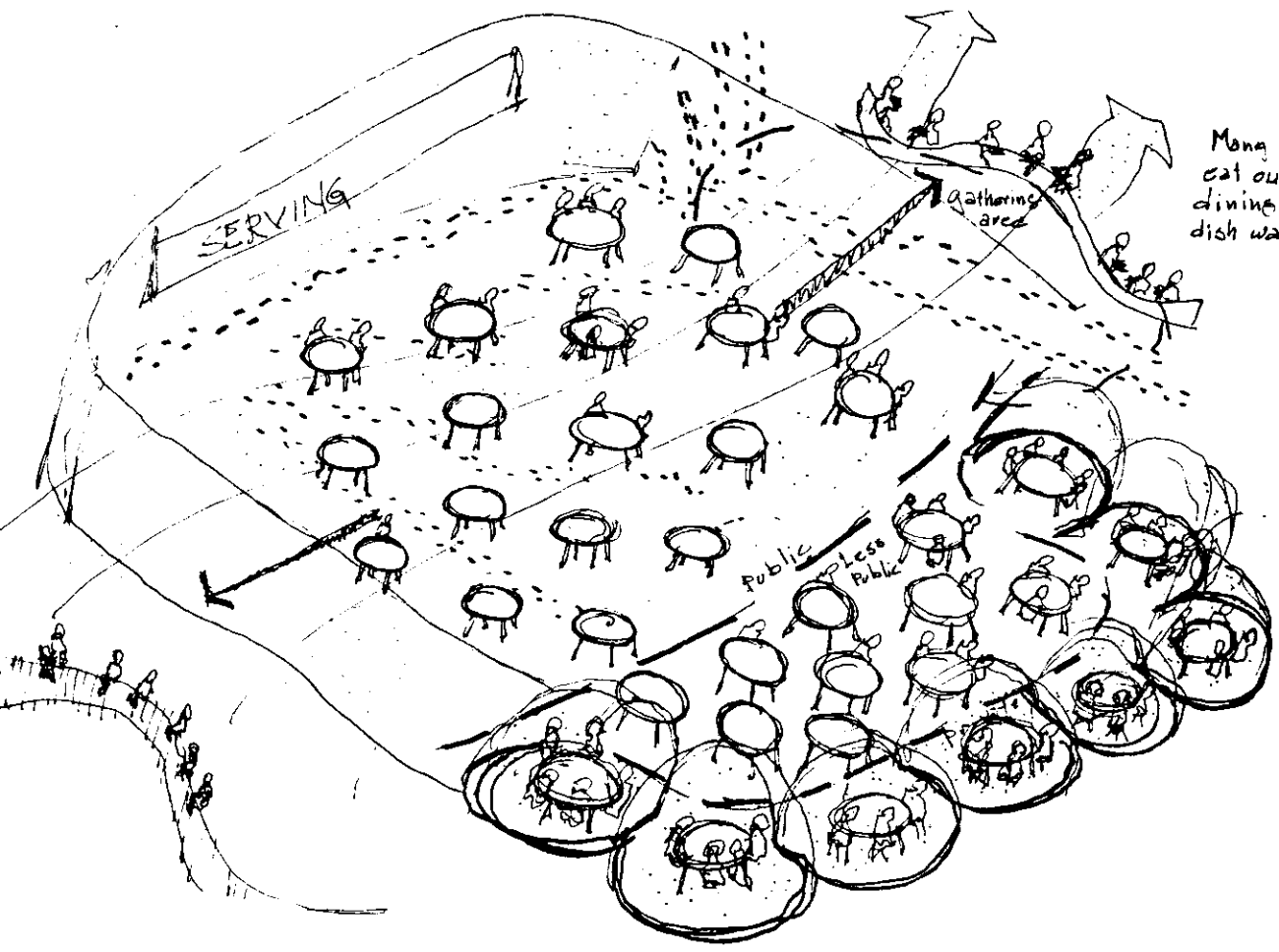
### AREA SUMMARY

Receiving	50'
Dry storage	150'
Refr. storage	160'
Dish washing	120'
Trash Room	40'
Employee lockers	120'
Employee restroom	48'
Manager's office	60'
Serving	280'
Prep Areas	340'
Cooking	440'
Baking	326'
	<u>2,222'</u>

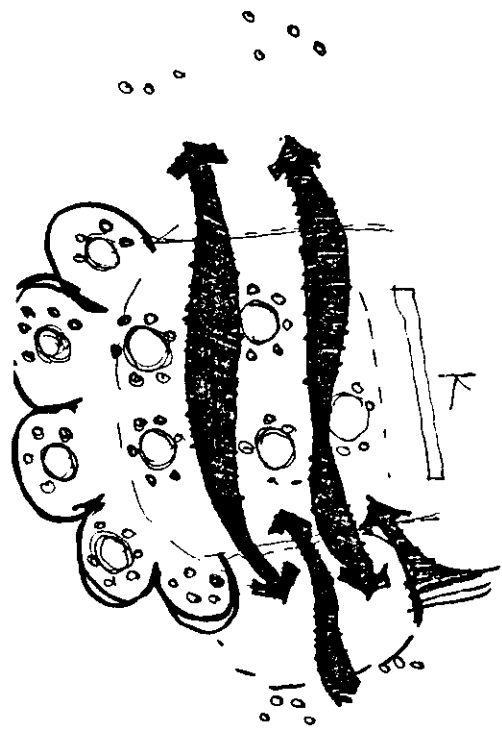
# DINING

The dining area should be a center for social activities as is the dining area in the home.

AREA  
dining ——— 2350'

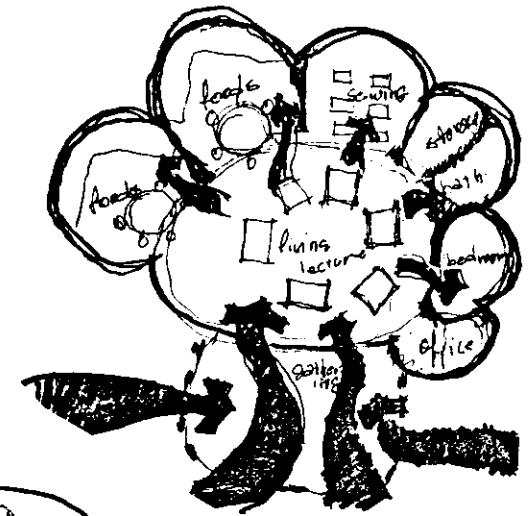
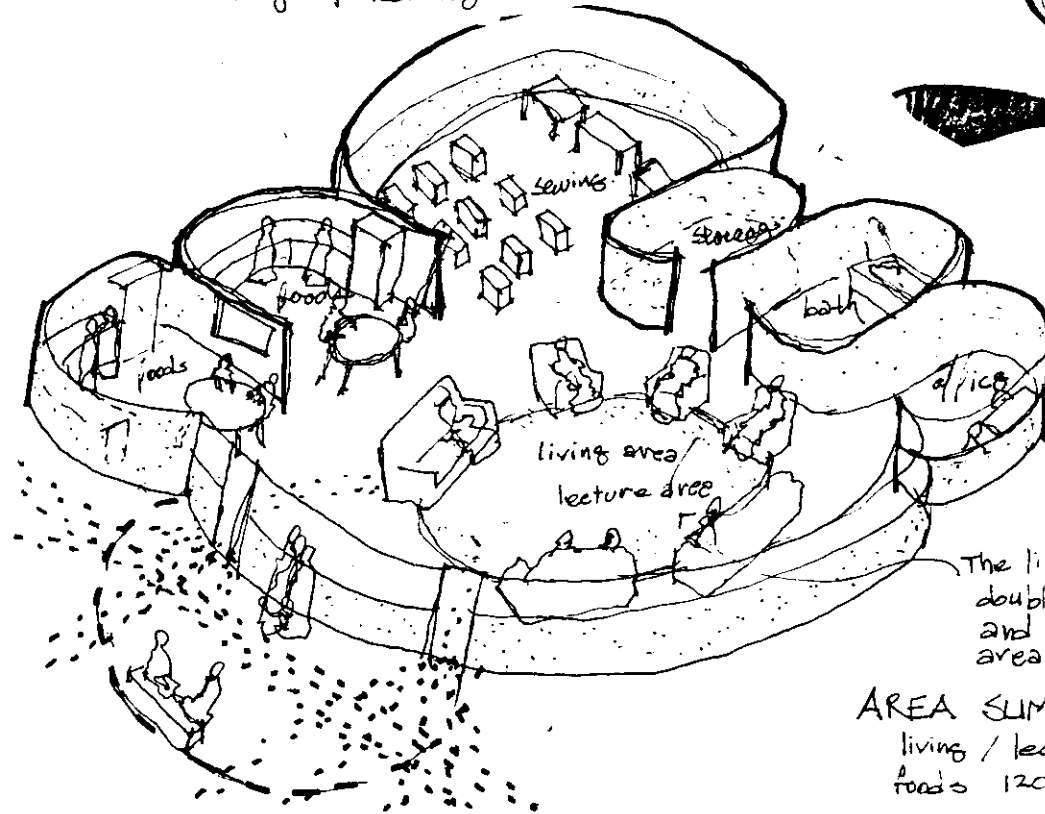


Many students would choose to eat outdoors. This might suggest disposable dining service, which would eliminate dish washing from the kitchen.



# HOME ARTS

Adults and students alike need facilities in which they can learn to use and maintain the types of home innovations they seek, but are unfamiliar with. The home arts department should be similar to a model home, but able to accommodate group learning.



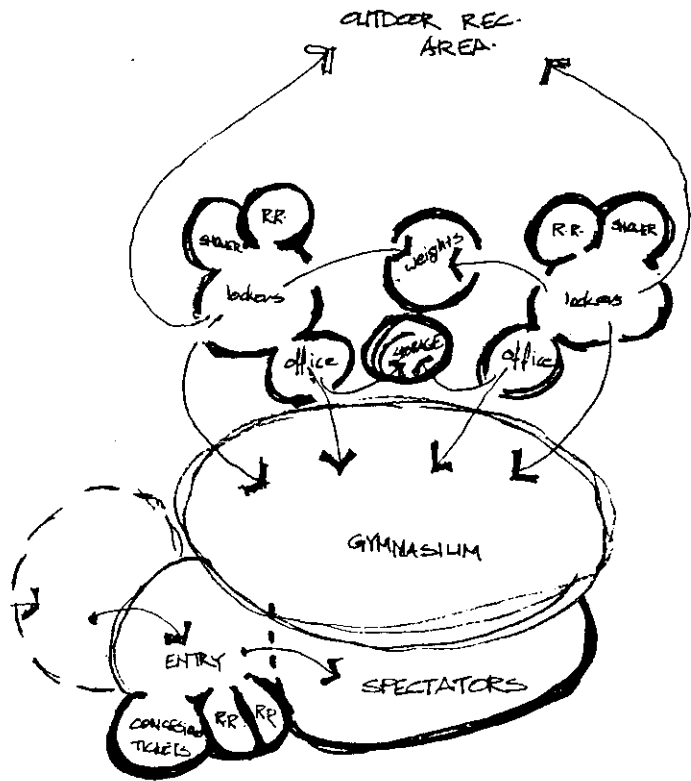
The living area can double as a casual and comfortable lecture area

## AREA SUMMARIES

living / lecture	_____	900 <sup>ft</sup>
kitchen 120 x 2	_____	240 <sup>ft</sup>
sewing	_____	400 <sup>ft</sup>
storage	_____	120 <sup>ft</sup>
bath	_____	80 <sup>ft</sup>
office	_____	80 <sup>ft</sup>
		<u>1820<sup>ft</sup></u>

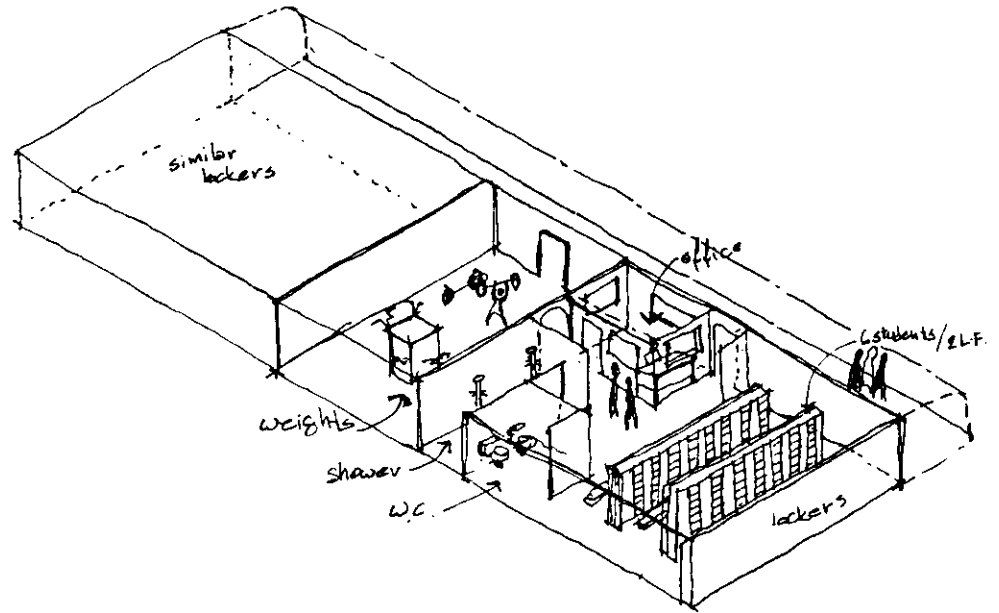
# ATHLETICS

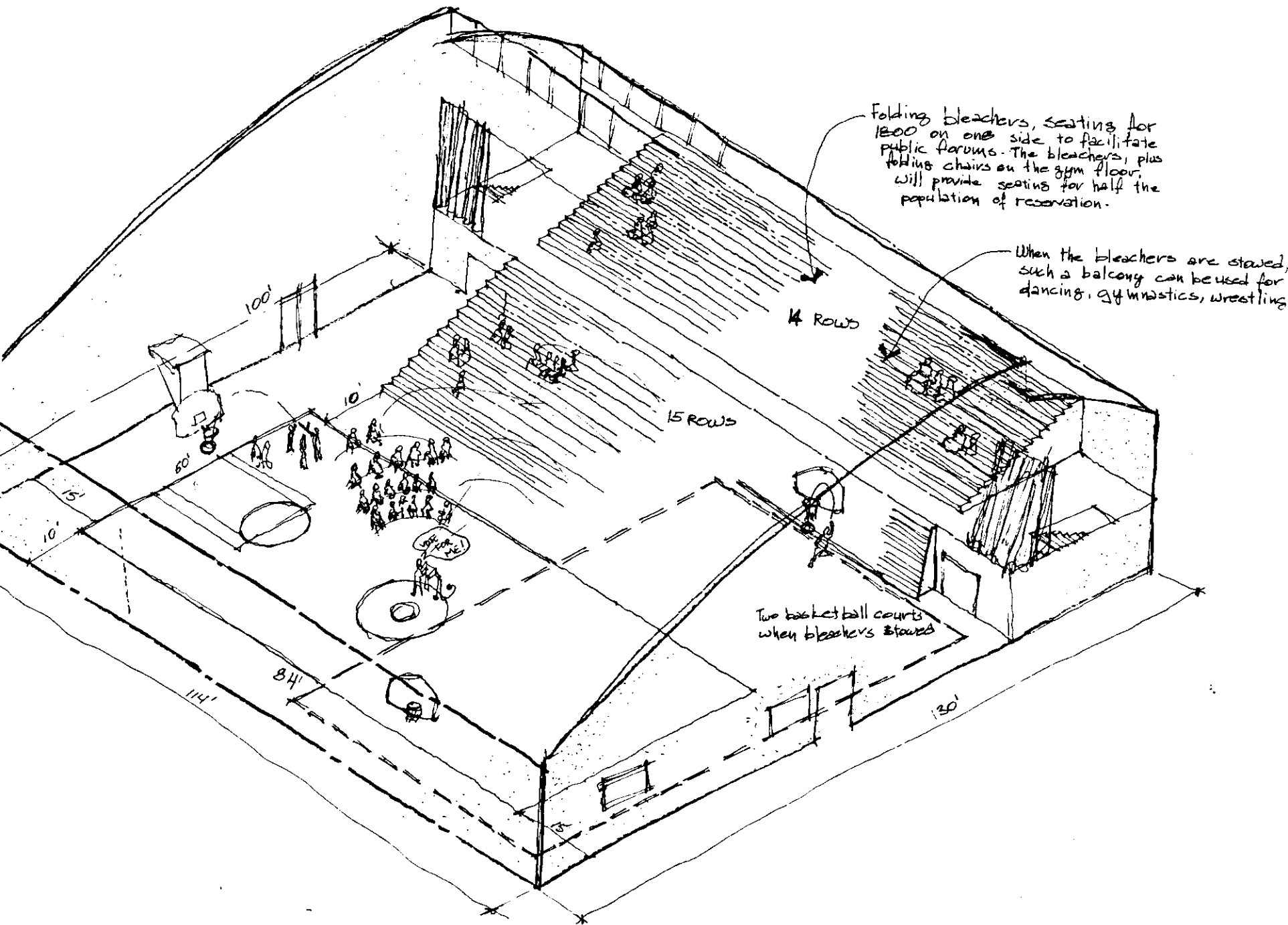
The athletic facilities can provide a recreation facility to the community as well as providing physical education and sports facilities to the students. Such a large and flexible space could also be used for public forums.

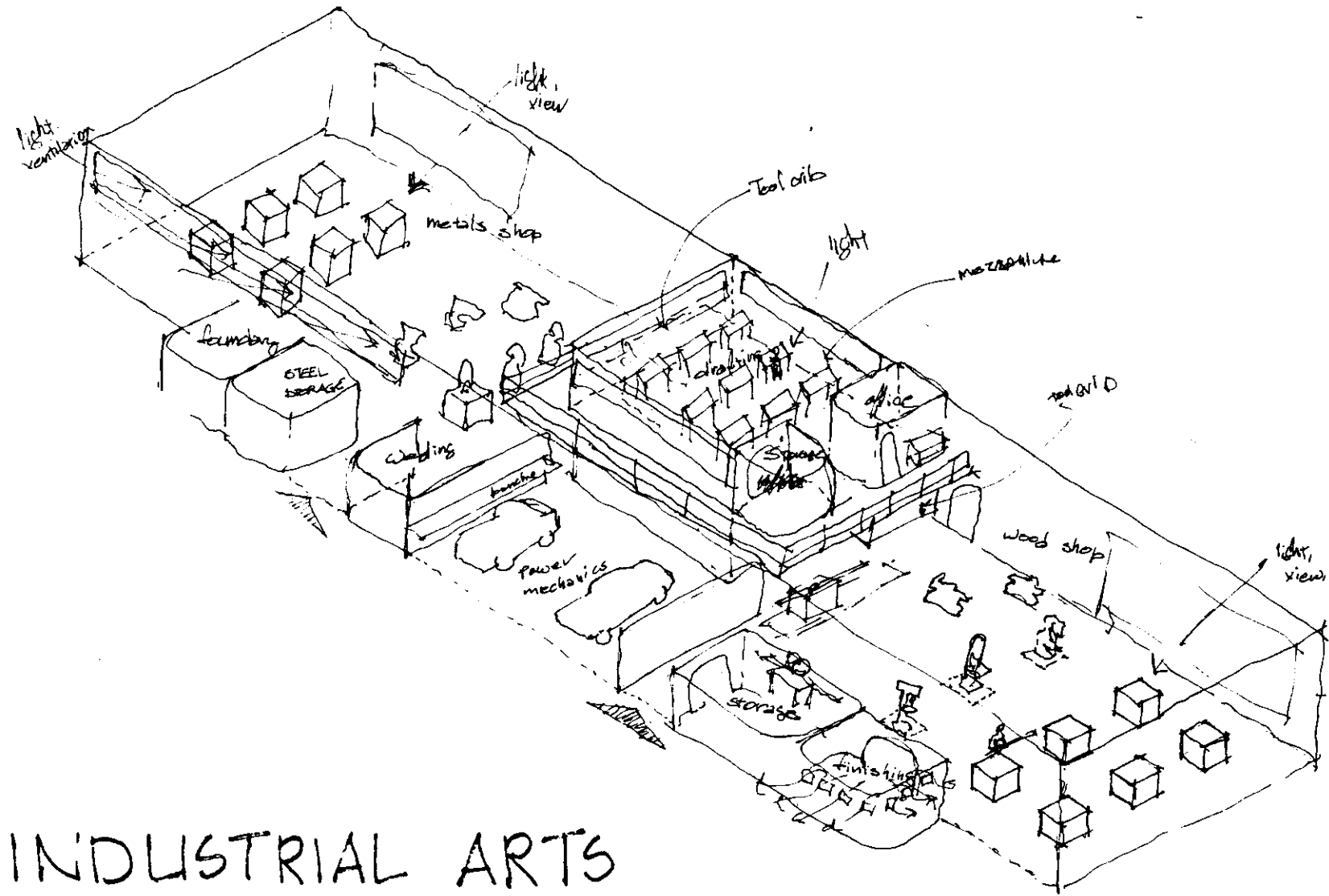


## AREA SUMMARIES

GYMNASIUM	11,400 #
BALCONY	3,420 #
BOYS LOCKERS	1,020 #
" SHOWERS	128 #
" RESTROOM	100 #
" OFFICE	80 #
GIRLS LOCKERS	1,020 #
" SHOWERS	128 #
" RESTROOM	100 #
" OFFICE	80 #
Weight room	600 #
STORAGE	180 #
ENTRY	1,000 #
CONCESSIONS	150 #
RESTROOMS	400 #
CIRCULATION	900 #
	<u>20,786 #</u>

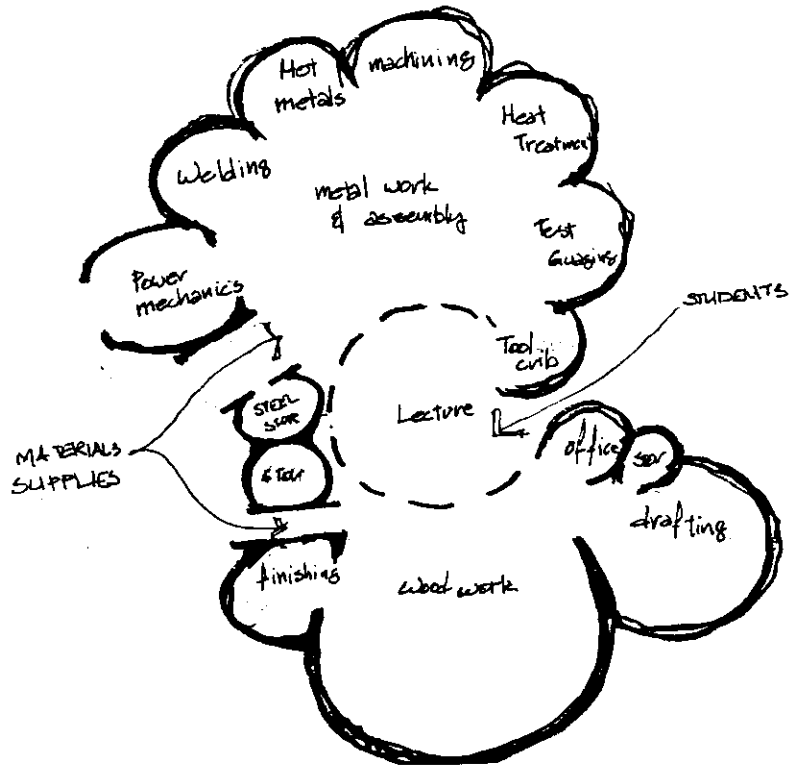






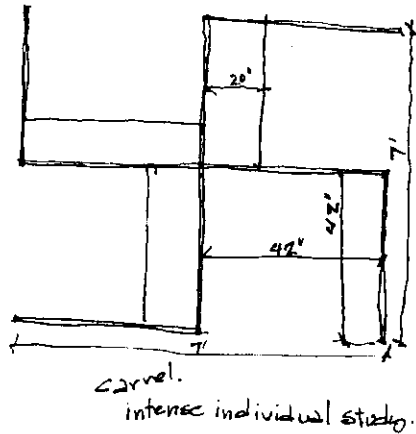
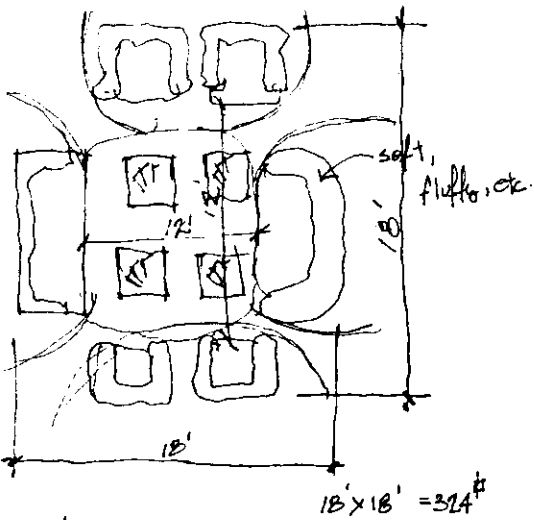
# INDUSTRIAL ARTS

Apache expectations of education are more vocationally directed... however facilities for vocational training already exist on the reservation. Shop facilities at the school will serve those with a general interest and will be geared towards everyday practical knowledge.

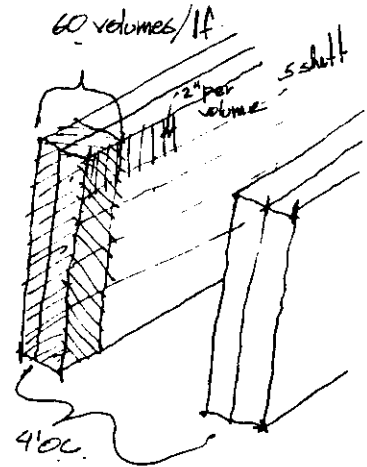


### AREA SUMMARIES

WOOD SHOP	3080 #
FINISHING	192 #
WOOD STORAGE	264 #
TOOL CRIB	96 #
POWER MECHANICS	912 #
METALS SHOP	3080 #
WELDING	144 #
STORAGE	144 #
BOUNDARY	144 #
LECTURE	900 #
DRAFTING	900 #
OFFICE	96 #
STORAGE	96 #
	<u>10,048 #</u>



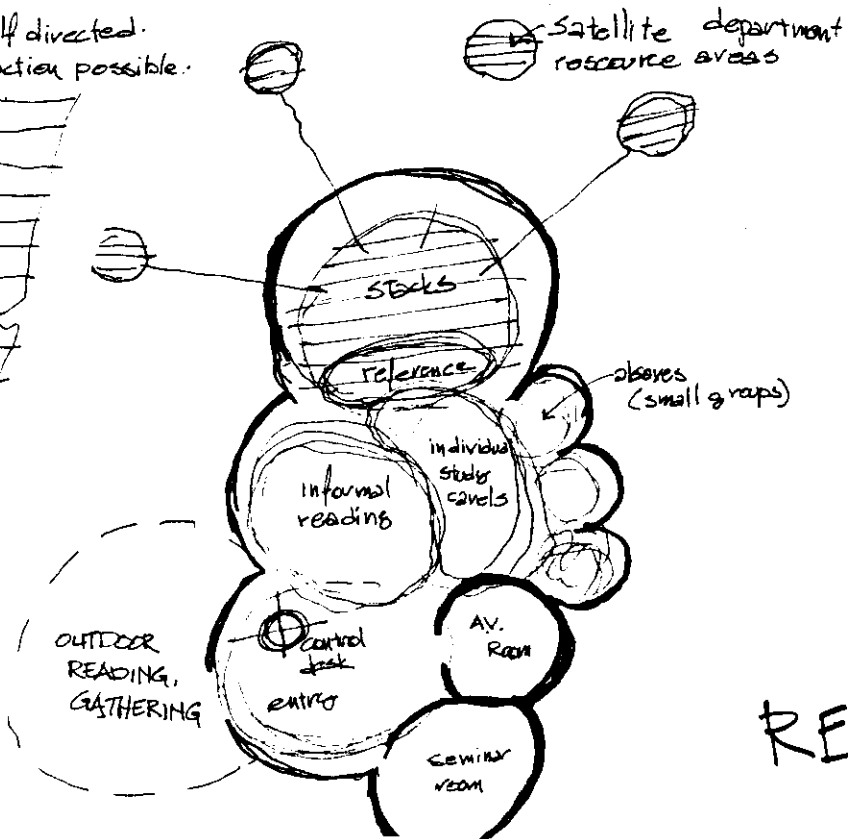
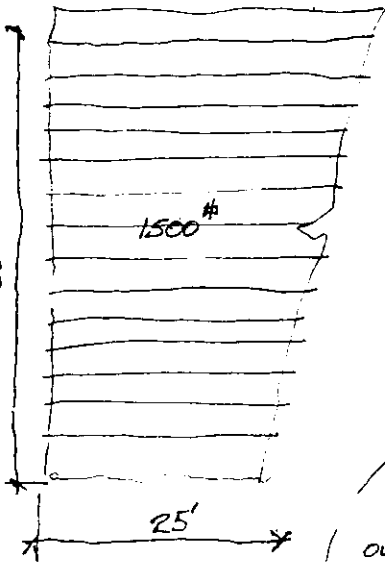
volumes Required - 25,000  
 volumes per lf. shelf - 60  
 lf. shelf required -  $\frac{25000}{60} = 416'$   
 approx shelf length - 25'  
 $\#$  of shelves =  $\frac{416}{25} = 16$  shelves



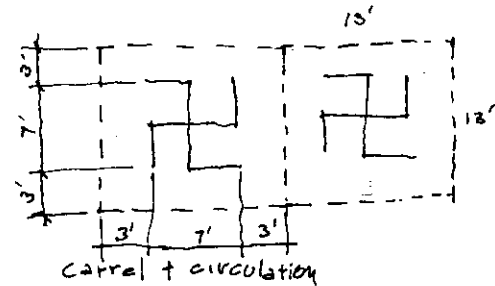
spacing 15 spaces x 4' = 60'  
 stack area. 25 x 60 = 1500<sup>#</sup>

seating for 15% of 300 students = 45 seats

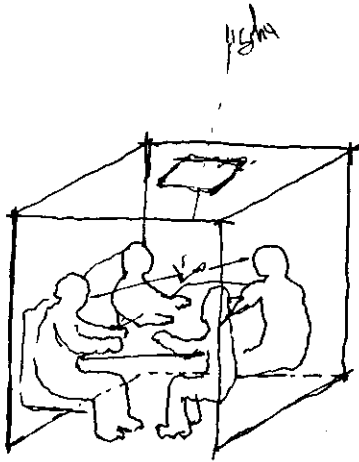
informal reading.  
 casual, relaxed, self directed.  
 casual social interaction possible.



↓  
 24 carrels  
 12 informal  
 16 above  
 48 seats

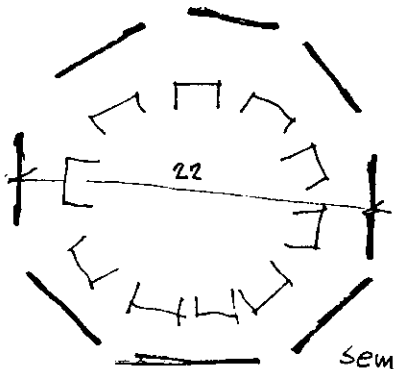


# RESOURCES

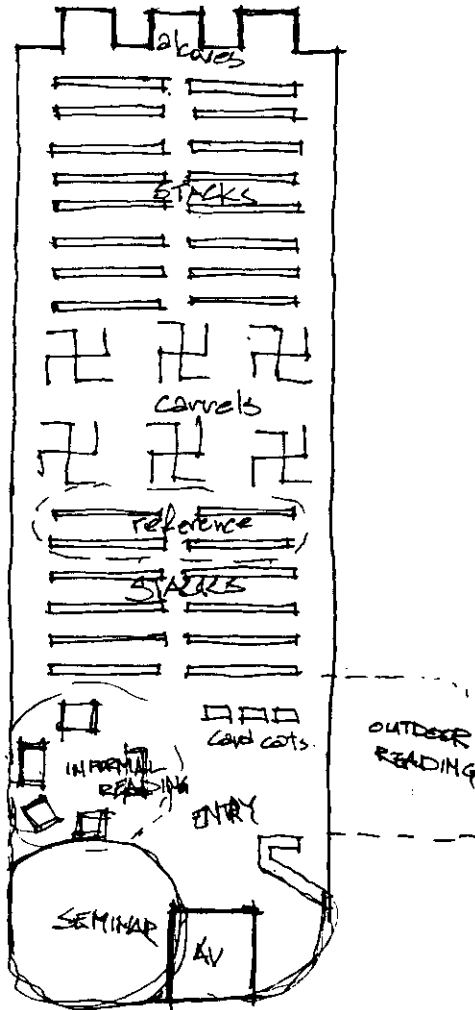


4.5 x 6 = 27<sup>#</sup>

Reading alcoves  
individual or group study.



Seminar - small group,  
intense interaction.  
300<sup>#</sup>



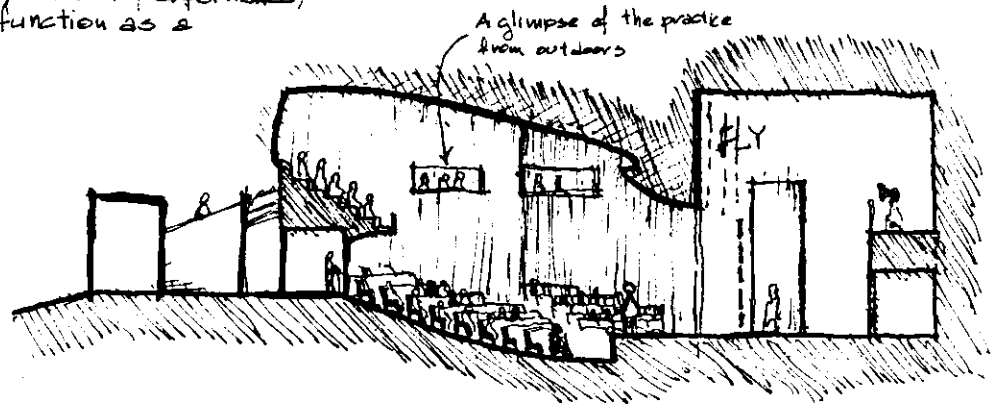
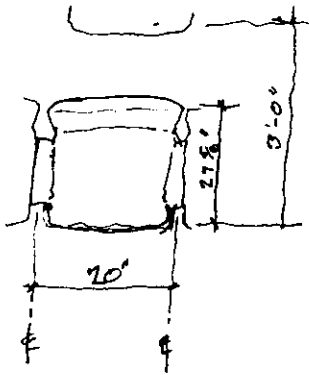
Since the emphasis will be on "learning" rather than "teaching" the library will become more important to the students as a resource, a store house of knowledge in which a student can direct his own learning activities. The library thus becomes the heart of the academic complex and can also be a knowledge source for the community as a whole. Since work in the classroom should correspond closely with research activities, I propose that materials likely to be used heavily by a specific department, be located in a satellite resource area, near the classrooms of that department.

#### AREA SUMMARIES

ENTRY	600 <sup>#</sup>
CIRC. DESK	100 <sup>#</sup>
STACK AREA	1,500 <sup>#</sup>
CARRELS	1,014 <sup>#</sup>
AV. ROOM	200 <sup>#</sup>
SEMINAR	300 <sup>#</sup>
ALCOVES 3x27	81 <sup>#</sup>
CIRCULATION	1060 <sup>#</sup>
	<u>4,935<sup>#</sup></u>

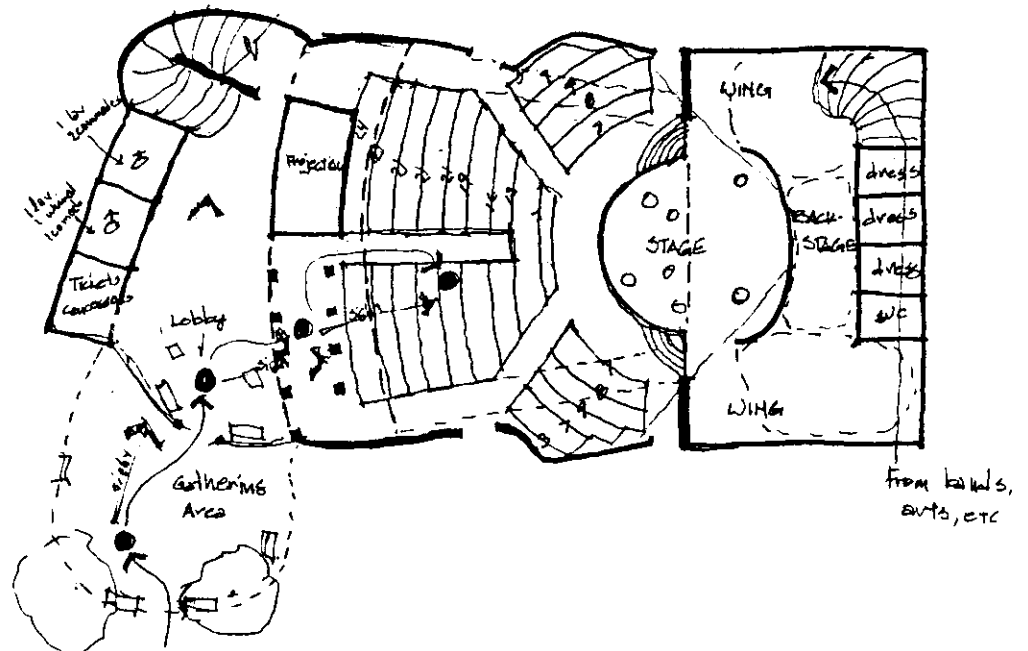
# ASSEMBLY, THEATRICALS, FILMS.

A flexible auditorium space should be provided for assemblies of the school body, drama performances of various types, musical performances, and films. On the community level, the space can function as a community theatre, and as a movie theatre.



Capacity 350 seats

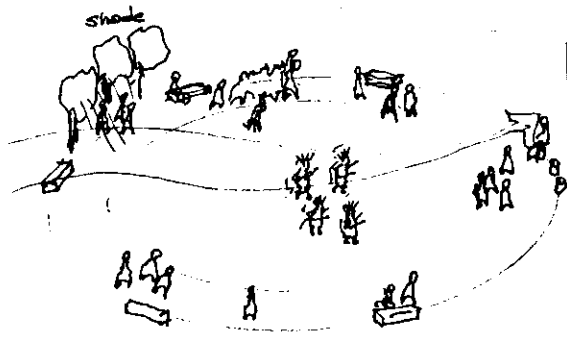
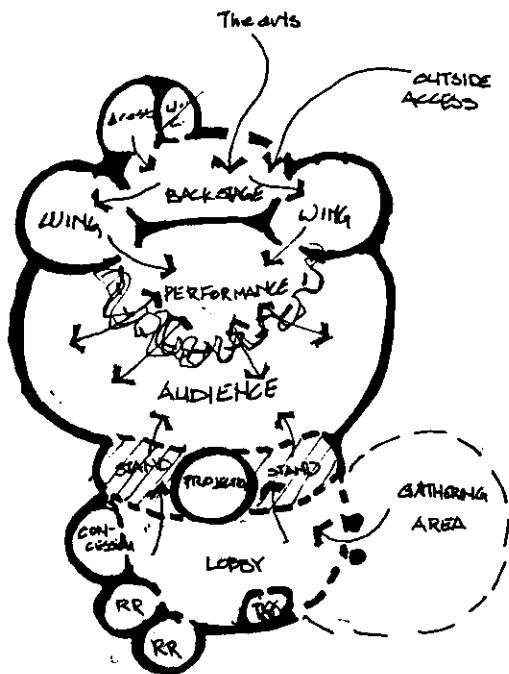
From the nature of Apache community events, we might suspect that the Apache would appreciate a dramatic performance that involved audience participation and an intimate performer/audience relationship, which would best be met by an open or thrust stage. On the other hand, drama students are somewhat limited on the plays that can be successfully performed on an open stage. The proscenium type is most flexible. The concept involves the advantages of both.



From balconies, seats, etc

## AREA SUMMARY

Seating & Circulation	2860'
Stage	600'
Wings 2x200'	560'
Back Stage	160'
Water Closet	40'
Dressing 3x48	144'
Projection	113'
Tickets, Concessions	80'
Public Restrooms 2x112'	224'
Lobby	480'
	5261'
Amphitheater	5,026



The number and quality of architectural spaces and landmarks in the public procession towards the focus of the performance, working together with the Apache culture's decidedly measured approach towards the focus of an activity can heighten the ceremonial atmosphere of the dramatic event.

Some performances more directly related to Apache culture (such as the mock Gans Dances performed by the Apache Culture Club, formed at Globe High School) will require the active participation of the audience and would best be performed outdoors. A large, open, amphitheater space with informal seating (most will stand) and more or less level will serve this purpose.

# DEPARTMENT RESOURCES, OFFICES

## AREA SUMMARIES

For closer interaction between classroom activities and resource materials, a department resource center should be maintained as a localized satellite of the main resource center, which would contain books, audiovisual, and other equipment which should be immediately available to students & classes. These resource centers could be the central point in a cluster of department classrooms, offices and ancillary spaces.

Resource 225 x 5

Offices 1.5 x 5 x 96

1125

720

### Departments

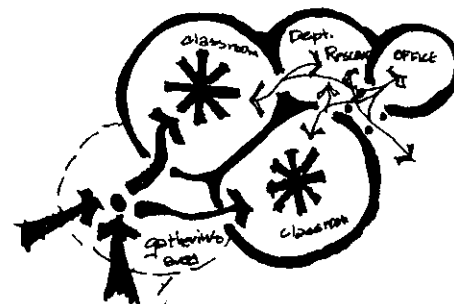
Math sciences

Sciences

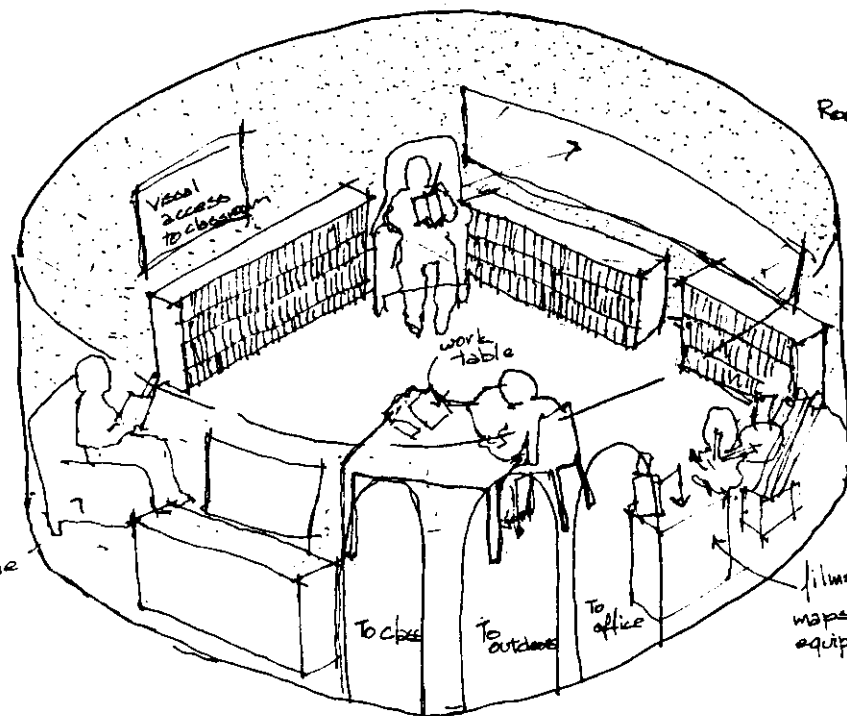
Languages - Including Apache, English as either a first or second language, to students & adults.

Social studies - Should include teaching in Apache culture, history, etc. and should include instruction by Apache elders, philosophers, medicine men, etc.

Business

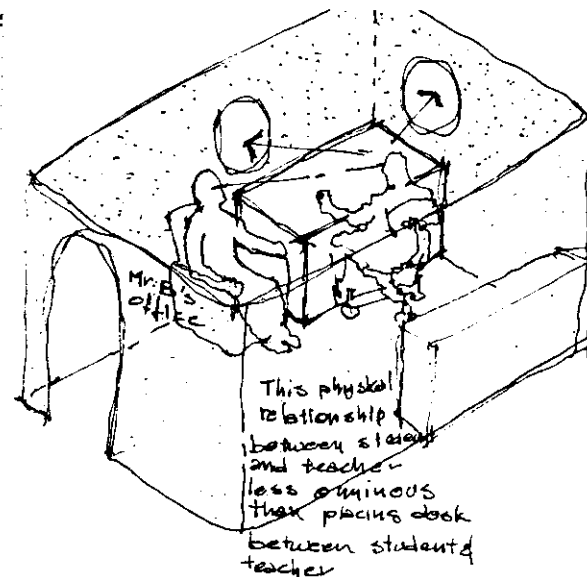


Classrooms
Resource Center
Science labs
Business
Industrial arts
Home arts
Music
Fine arts
Phys. ed.
Auditorium
Cafeteria
Administration
Amphitheatre
Astronomical
Outdoor sports
Parking
Entrance



Room for small groups of students:

An office should be provided for each faculty member, a place to prepare for class privately, and a place to meet individual students.



Films, projectors, maps, models, tools, equipment, etc.

This physical relationship between student and teacher - less ominous than placid desk between student & teacher

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