

Bryce 41
5817

**VISITOR USE SURVEY OF DESIGNATED TRAILS AT SUNSET POINT,
INSPIRATION POINT AND AGUA CANYON DURING OCTOBER 1999 AT BRYCE
CANYON NATIONAL PARK**

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Written by Nancy Mitton
October 26, 1999

Introduction

When visitors exit designated trails within the park, vegetation loss and erosion occur over time. The cumulative effects result in large areas of bare ground. In recent years secondary barrier fences have been constructed to discourage visitors from transgressing recently reseeded/revegetated sites, to reduce soil erosion and vegetation loss, and for visitor protection near steep cliffs.

During this past season, employees have repeatedly viewed individuals crossing over secondary barrier fences to "shortcut" to a location; such as, to shorten their access to a parking area or to photograph a better visual angle. Much of the transgression has been through areas recently revegetated. This activity will only be counterproductive to the time and money exerted. The goal of this project is to evaluate whether the secondary barriers (short wood fences along roads and trails) are effective at directing visitor traffic along defined travel routes (designated trails). By concentrating visitor travel routes to defined trails, native vegetation is protected from trampling and the forest community appears as a well managed landscape in a high traffic situation.

We conducted observations of visitor behavior and travel patterns to see if the secondary barriers keep people from shortcutting through the forest.

The information collected is a baseline for future surveys. The recommendations proposed may provide some guidance for improving problem areas.

General Methods for All Survey Sites

The surveys were located at sites revegetated during this last season: Sunrise Point, Inspiration Point and Agua Canyon. One-hour observation periods recorded the movement of individuals at the sites. Observation data were taken from one vantage at each site where the wider visual range was available to cover most visitor activity.

The total number of individual visitors who chose opportunity to walk through the protected areas (along designated trails) was recorded. This incorporated the numbers of visitors traveling from the parking area to the rim and from the rim to the parking areas. We included in the data the number of people who chose to travel in the revegetated sites. The surveyor was dressed in civilian clothes to blend in with visitors. Temperature and weather conditions were recorded.

SUNRISE POINT

Methods for Sunrise Point

Observation data were taken from half way along the designated trail between the Sunrise Point Loop Road parking area and the rim. From this location the surveyor could see all the trails associated with the revegetated meadow and other revegetated sites, including the existing horse trail. Visitors were counted moving west to east from the parking areas toward the rim. Two counts in this direction were tallied: entering directly from loop road parking, and from the General Store and DRO area. Two counts tallying activity east to west: exiting directly from the rim north of the vegetated triangle, and exiting the rim area near horse trail south of the vegetated triangle. Both vegetated triangles, on the attached maps, had not been revegetated this last season. In addition, individuals traveling on undesignated trails through the revegetated central meadow, whom did not visit the rim, were included in the data as a transgression of the preferred activity. The survey time periods were derived to correspond to horseback trail ride tours.

Results for Sunrise Point

Sunrise Point = October 7, 1999 0730 – 0830:

A total of 97 visitors arrived from the west, either from the loop road or the General Store proximity toward the rim. The survey showed 26 visitors walking east to the rim from the parking areas and 71 visitors walking west from rim to parking. Four visitors walked off the designated trail through the vegetated triangle near the rim. One visitor stepped off the designated trail in the vegetated triangle near the parking areas to inspect at a plant. No individuals crossed over the barrier fences or walked through the central meadow. One tour bus arrived at 8:24am, but none of its occupants traveled to the rim during the survey time period. There was complete cloud cover and very windy during the survey. The temperatures ranged 34-35°F.

Sunrise Point = October 7, 1999 1030 – 1130:

A total of 224 visitors arrived from the west, either from the loop road or the General Store proximity toward the rim. The survey showed 128 visitors walking east to the rim from the parking areas and 96 visitors walking west from rim to parking. Five visitors walked off the designated trail through the vegetated triangle near the rim. Two of these were a father and toddler investigating the vegetation and then changing direction. Two individuals traveled the social trail from the Horse Corral (south to north) and crossed the barrier fence to their vehicle on the Sunrise Point Loop Road. One individual walked on the designated trail from the DRO to the Lodge (north to south). There was complete cloud cover and windy during the survey. The temperatures ranged 41-47°F.

Sunrise Point = October 6, 1999 1300 – 1400:

A total of 185 visitors arrived from the west, either from loop road or the General Store proximity toward the rim. The survey showed 90 visitors walking east to the rim from the parking areas and 95 visitors walking west from rim to parking. One individual stepped off the designated trail to investigate a plant in the vegetated triangle near the rim. No individuals

crossed over the barrier fences or walked through the central meadow. A cold front passed into Bryce Canyon National Park early in the afternoon of October 6, 1999. There was 50% cloud cover and breezy during the survey. The temperature was 57°F.

Sunrise Point = October 6, 1999 1530 – 1630:

A total of 301 visitors arrived from the west, either from the loop road or the General Store proximity toward the rim. The survey showed 93 visitors walking east to the rim from the parking areas and 208 visitors walking west from rim to parking. One individual stepped off the designated trail to investigate a plant in the vegetated triangle near the rim and two individuals to photograph each other against the fallen tree. No individuals crossed over the barrier fences or walked through the central meadow. Four tour buses arrived during the survey. Many individuals among these tour groups were included in the survey count. A cold front passed into Bryce Canyon National Park early in the afternoon of October 6, 1999. There was 85% cloud cover and breezy during the survey. The temperatures ranged dropped from 58° to 45°F during the survey period.

Discussion for Sunrise Point

The results of the four surveys at the Sunrise Point site indicated that most individuals chose the travel the designated trails to reach their designation. Of the 809 individuals who walked the trail from parking to rim, fourteen (1.73%) stepped off the designated trail. Only two individuals (0.25%) of the 809 visitors observed actually crossed over a secondary barrier fence and walked in the revegetated site.

Recommendations for Sunrise Point

- Thirteen visitors crossed off the designated trail through the vegetated triangle near the rim. This location is an open area next to the Rim Trail at a point where several trails converge (Horse Trail, Queen's Garden Trail, Rim Trail, trail to parking area, and ascending trail to a viewpoint). The designated trails at this location are segregated with rocks laid by the CCC in the 1930's and concerned historical structures. It would be beneficial to preserve these rocks and the vegetated site with the installation of secondary barrier fence.
- Two individuals traveled the undesignated trail from the Horse Corral (south to north) and crossed over the secondary barrier fence to their vehicle on the Sunrise Point Loop Road. A sign installed at the Horse Corral directing the visitors to the existing designated trail between the Lodge and the DRO would aid the visitors. The undesignated trail should be eliminated with reseeding and debris placement.

INSPIRATION POINT

Methods for Inspiration Point

Observation data were taken from the rim side of the designated trail south of the first landing (stone and log fence) halfway to the second landing (chain-link fence). Visitors were recorded both traveling east from the parking area toward the first landing, and traveling south from the Rim Trail to the first landing. These data provided the total visitor count. An additional count was recorded as a visitor walked south from the first landing toward other locations on the designated trail.

Results of Inspiration Point

Inspiration Point = October 7, 1999 0900 – 1000:

A total of 122 visitors arrived from the parking lot and from the north along the Rim Trail. The survey showed 105 visitors traveling east to the rim from the parking area and 17 visitors traveled from the Rim Trail. At the first landing (stone and log fence), 91 individuals either stopped or were already there when the survey began. Eighty-one visitors walked south from the first landing to other locations. Sixty-one visitors stopped at the second landing (chain-link fence). One woman at the second landing sat on the fence to photograph. One hundred eighteen visitors walked north from other locations to the first landing. One hundred twenty-three visitors exited the first landing west toward the parking area and twenty-eight visitors exited north along the Rim Trail. Individuals were recorded at a landing if they walked over to the fence and looked east. No individuals crossed the secondary barrier fences or walked through the revegetated sites. One tour bus was parked at the site when the surveyor arrived and two more tour buses arrived during the survey. There were clear skies with no clouds and a slight breeze. The temperature ranged between 35° and 45°F.

Inspiration Point = October 8, 1999 1100 – 1200:

A total of 122 visitors arrived from the parking lot and from the north along the Rim Trail. The survey showed 108 visitors traveled east to the rim from the parking area and 14 visitors traveled south from the Rim Trail. At the first landing (stone and log fence), 91 individuals either stopped or were already there when the survey began. Ninety-two visitors walked south from the first landing to other locations. Eighty-two visitors stopped at the second landing (chain-link fence). Seventy-eight visitors walked north from other locations to the first landing. One hundred thirty-five visitors exited the first landing west toward the parking area and eleven visitors exited north along the Rim Trail. Individuals were recorded at the first landing if they walked over to the fence and looked east. No individuals crossed the secondary barrier fences or walked through the revegetated sites. No tour buses arrived during the survey, but several vans with groups arrived. There were clear skies with no clouds and no wind. The temperature ranged between 52° and 59°F.

Inspiration Point = October 7, 1999 1300 - 1400:

A total of 143 visitors were recorded at the first landing. One hundred forty-one visitors arrived from the parking lot and two visitors walked south from the Rim Trail. Eighty-two walked south from the first landing to other locations. One child climbed up to sit on a stone pillar at the first landing. One bus arrived at 1338 and departed at 1400. The temperature at the headquarters building at 1300 was 46 degrees. Skies were clear and sunny at 1300, with clouds coming from the north at 1323. It was very cold and windy.

Inspiration Point = October 7, 1999 1500 - 1600:

A total of 312 visitors were recorded at the first landing. Two hundred eighty-seven individuals arrived from the parking lot, and five visitors arrived south from the Rim Trail. Two visitors from the north on the Rim Trail. Twenty visitors were present at 1300. One hundred ten visitors walked south from the first landing to other locations. Three visitors walked around the stone pillar at the south end of the first landing. Five buses arrived during the survey period (1500, 1507, 1514, 1524, 1542 hours). One couple walked two leashed poodles on the trail. The temperature at the headquarters building at 1500 was 50 degrees. Scattered high clouds were present, yet skies were mostly clear and sunny. It was very cold and windy.

Discussion for Inspiration Point

During the surveys, all visitors remained on the designated trails. Many visitors who walked south from the first landing were very close to the canyon rim, an area void of vegetation or barriers. It is hard to delineate the designated trail along the rim from the first landing southward.

From the surveyors' vantage, no observed individuals exited the designated trails and transgressed the revegetated/reseeded sites. On future dates, visitor footprints and disturbed soil were detected within the revegetated sites to the south of the first landing. Visitors appeared to cross the secondary barrier fence south of the second landing to "shortcut" to the parking lot. The locations of the disturbance are not visible from the surveyors' vantage.

Recommendations for Inspiration Point

- A warning sign at the second landing (chain-link fence) should be installed about climbing the fence and possible injuries.
- Additional "Erosion control" signs along the secondary barrier fence south from first landing to beyond visual sight of south end of parking lot.
- Future surveys should incorporate an additional surveyor point for data collection farther south and closer to the last viewpoint. This would identify any visitor crossing the barrier fence not visible from the only survey point.
- Each surveyor recorded a little different data. Future surveys at this location should define the "visitor." Some individuals traveling south to north past the surveyor may be returning from Inspiration Point's southern viewpoint and previously not recorded prior to the surveyor's arrival. Individuals traveling north to south, as continuing hikers on the Rim Trail were recorded in the total count, but continuing hikers south to north on the Rim Trail were

not recorded in the total count. This does not provide an accurate accounting of "total visitors." An additional surveyor located at the northernmost Inspiration Point landing recording visitor activity may eliminate the problem

AGUA CANYON

Methods for Agua Canyon

The total number of visitors who exited their vehicles and traveled to the developed viewpoint. The surveyor was located on a bench on the north side of viewpoint where all potential activity was visible.

Results for Agua Canyon

Agua Canyon = October 12, 1999 0930 - 1030:

A total of 68 visitors exited their vehicles and arrived in the developed viewpoint. Two visitors in one vehicle pulled into a parking space, backed up and drove away. Eleven individuals walked over to the southeast area of the viewpoint. One of these visitors climbed over the fence to photograph and 3 individuals straddled the fence to photograph. One visitor stood on the fence (to photograph) at the enlarged eastern area of the viewpoint. At 0934, one man walked past the south end of the fence, observed the signs and the plant protection cages, turned around and returned to his vehicle. The temperature at 0930 was 40 degrees at the headquarters building. Skies were clear and sunny.

Agua Canyon = October 12, 1999 1100 - 1200:

A total of 127 visitors arrived in the developed viewpoint. Ten were bicyclists, while 117 arrived in their vehicles. Twenty-six walked over to the southeast area of the viewpoint. Six of these 26 visitors straddled the fence to photograph. One woman stood on the southwest pillar to photograph, while her husband lifted their two small children onto the pillar to the east. One man walked over to the beginning point of the secondary barrier fence, observed the sign and turned around. Another young couple walked past the signs and cages into the revegetated site to the rim to photograph. Their location was about 10 meters south of the viewpoint. One visitor stood on the fence (to photograph) at the enlarged eastern area of the viewpoint, while another visitor sat on a pillar in this area. The temperature at 1100 was 64 degrees at the headquarters building. Skies were clear and sunny.

Agua Canyon = October 6, 1999 1200 - 1300:

A total of 154 visitors exited their vehicles and arrived in the developed viewpoint. Two visitors in a vehicle drove into and out of the parking lot. Twenty-two visitors walked over to the southeast area of the viewpoint. Three of these visitors straddled the fence and 4 stood on the southeast pillar to photograph. One visitor stood on the pillar just west of the far southeast pillar. Another visitor straddled the fence (to photograph) at the enlarged eastern area of the viewpoint.

The temperature at 1200 was in the high 50's. Skies were clear and sunny, and there was a cool, strong wind.

Agua Canyon = October 6, 1999 1400 - 1500:

A total of 131 visitors exited their vehicles and arrived in the developed viewpoint. Twelve visitors walked over to the southeast area of the viewpoint. One of 12 visitors straddled the fence and one visitor stood on the southeast pillar to photograph. Another visitor straddled the fence (to photograph) at the enlarged eastern area of the viewpoint. The temperature at 1400 was in the mid 40's. Skies were cloudy, and there was a cold, strong wind. Snow flurries started at 1500. Due to the cold temperatures and wind, most visitors exited their vehicles, walked to the edge of the fence, looked and returned to their vehicles quickly.

Discussion for Agua Canyon

This survey indicated most visitors remained in the developed area at the Agua Canyon viewpoint. The signage and plant protection cages discouraged most visitors from walking on the revegetated sites. A total of 480 people visited the viewpoint during the four survey times. Two people ventured onto the revegetated area to photograph (0.42% of 480 individuals). Two visitors walked over to the revegetated site, saw the signs and returned to the developed area without crossing the barrier

Recommendations for Agua Canyon

- Installation of two or three signs within the secondary barrier fence on the south end of the designated viewpoint explaining "Trampling of vegetation causes erosion. Area Closed for revegetation" and add a \$150.00 fine onto the sign. This fine is permitted per the Bond/Collateral Schedule. Penalty warnings appear to have worked at the Natural Bridge and Black Birch locations. Those locations had signs with penalty warnings installed three years ago.
- Establish a designated trail on the south end of the viewpoint enclosed with secondary barrier fences past the present secondary barrier fence and up to the rim. This would allow the visitors to photograph the view they desire and lessen the total negative impact to the revegetated area.

Discussion of All Four Surveyed Sites (Sunrise Point, Inspiration Point and Agua Canyon)

No sites directly adjacent to the rim were revegetated at Sunrise Point or Inspiration Point. The comparison of those two sites' data with Agua Canyon's data is difficult. The survey indicated the Sunrise Point and Inspiration Point visitors who traveled into the revegetated sites to shortcut to their destination; whereas, at Agua Canyon the visitors were attempting to secure a better photographic angle of the view to the east. In future surveys, it is recommended that additional sites with revegetated sites which are directly adjacent to the rim be included.

Most (99.75%) of the total surveyed individuals chose to remain in the designated visitor travel corridors. Two visitors at Agua Canyon walked over to the revegetated site, read the resource management signs and chose to not enter the area. This shows visitors may decide to forfeit a photograph to allow vegetation an opportunity to establish and reduce erosion if an explanation is provided for the area closure.

Two of the 807 (0.248%) total Sunrise Point visitors chose to transgress an established barriers to shorten their time and walking distance. From where these visitors were parked, it is more than likely they crossed the secondary barrier to travel to the Horse Corral earlier and were surveyed on their return. There is no sign at either end of their pathway explaining revegetation activity. This data shows 0.5 visitors per hour may cross into revegetated sites at this location.

Three of the 480 (0.625%) total Agua Canyon visitors decided to transgress an established barrier with plant protection cages and signs indicting an active revegetation project so as to photograph. This data shows 0.75 visitors per hour may cross into revegetated sites at this location.

With the limited data available of five visitors who exited designated visitor corridors, the projected ratio of visitors choosing to enter a revegetated site for a photograph is 4.64:1 more desirable than shortcutting travel distance per total individuals.

Future construction of viewpoints may want to utilize the expertise of Recreational Specialists and Landscape Architects. Their input on redesigning viewpoints could reduce vegetation loss and erosion, and provide for visitor protection and photographic satisfaction.

Appendix A. Background information for Agua Canyon location.

The “Sentinel” Hoodoo is the feature that is of interest to most visitors at Agua Canyon viewpoint. It is located east of the south end of the developed viewing area. The best views (and photographic angles) of the Sentinel is along the rim to the south of the parking lot. In 1994, after the road construction, this area was landscaped with native grasses, shrubs and trees. Per Richard Bryant, Chief of Resource Management at that time, within one week after the opening of the road to the public, this area was trampled to bare ground. Since then a well-defined social path has formed all along the canyon rim. This trail extends approximately 200 meters south along the rim. A high, flat knoll 100 meters south of the parking lot provides a spectacular view of the Sentinel. The social trail leading to this knoll is more defined and wider than the small trail continuing south from this point.

To get a good view (and photo) of the Sentinel from the developed viewpoint, visitors are standing on the southeast stone pillar, straddling the fence, or climbing the fence and standing on the east side of the fence. The slope is quite steep in this area and all along the social trail to the south of the viewpoint.

In October 1998, a wood barrier fence was constructed from the southeast pillar south 20 meters, near the entrance to the parking lot. This was constructed in an effort to discourage visitors from traveling on the social trails to the south of the viewpoint. Starting in August of 1999, Ponderosa pine *Pinus ponderosa*) and Douglas fir (*Pseudotsuga menziesii*) seedlings and native grass seed were planted in this area. Temporary signs stating “Reveg area” and “Erosion Control” with no hiking, bikes, or dogs’ symbols were put in place. Some visitors must have ignored these signs, as within one week there was evidence that this area had seen foot traffic (trampled trees and ground). Additional signs were placed in locations that indicated traffic flow. Large dead branches were placed at entrances to traffic areas and metal tree root cages were placed over the seedlings closest to the viewpoint. This still did not discourage some visitors.

Juli Ames-Curtis
October 1999

Table 1. Visitor use surveys of designated trails at Sunset Point, Inspiration Point and Agua Canyon on October 6, 7, and 12, 1999 at Bryce Canyon National Park, UT.

Date	Location	Time of Survey	Observer	Number of Visitors Observed	Number of Visitors Cutting through Reseeded Area	Percent of Total
10-07-99	Sunrise Point	0730 – 0830	N. Mitton	97	0	0
10-07-99	Sunrise Point	1030 – 1130	N. Mitton	224	2	0.89
10-06-99	Sunrise Point	1300 – 1400	N. Mitton	185	0	0
10-06-99	Sunrise Point	1530 – 1630	N. Mitton	<u>301</u>	0	0
				807		
10-08-99	Inspiration Pt	0900 – 1000	N. Mitton	122	0	0
10-08-99	Inspiration Pt	1100 – 1200	N. Mitton	122	0	0
10-07-99	Inspiration Pt	1300 – 1400	J. Ames-Curtis	143	0	0
10-07-99	Inspiration Pt	1500 – 1600	J. Ames-Curtis	<u>292</u>	0	0
				679		
10-12-99	Agua Canyon	0930 – 1030	J. Ames-Curtis	68	1	1.47
10-12-99	Agua Canyon	1100 – 1200	J. Ames-Curtis	127	2	1.57
10-06-99	Agua Canyon	1200 – 1300	J. Ames-Curtis	154	0	0
10-06-99	Agua Canyon	1400 – 1500	J. Ames-Curtis	<u>131</u>	0	0
				480		
Grand Total				1966	5	0.25

N = 807 visitors observed at Sunrise Point in four 1-hour monitoring periods. x = 0.5 visitors transgressing per hour.
N = 679 visitors observed at Inspiration Point in four 1-hour monitoring periods. x = 0.0 visitors transgressing per hour.
N = 480 visitors observed at Agua Canyon in four 1-hour monitoring periods. x = 0.75 visitors transgressing per hour.

SUNRISE

Existing Trail to Horse corral

Social Trail to Horses

7:30-7:45 30 people

7:45 Woman took her shirt & sweater off in loop road at her trunk.

No under garments. Put on heavier garments

8:00 Toes frozen

8:15 Do we get health benefits for frostbite?

8:24 sleeper tour bus arrived.

97 visitors

10-7-99

7:30-8:30

10:30-11:30

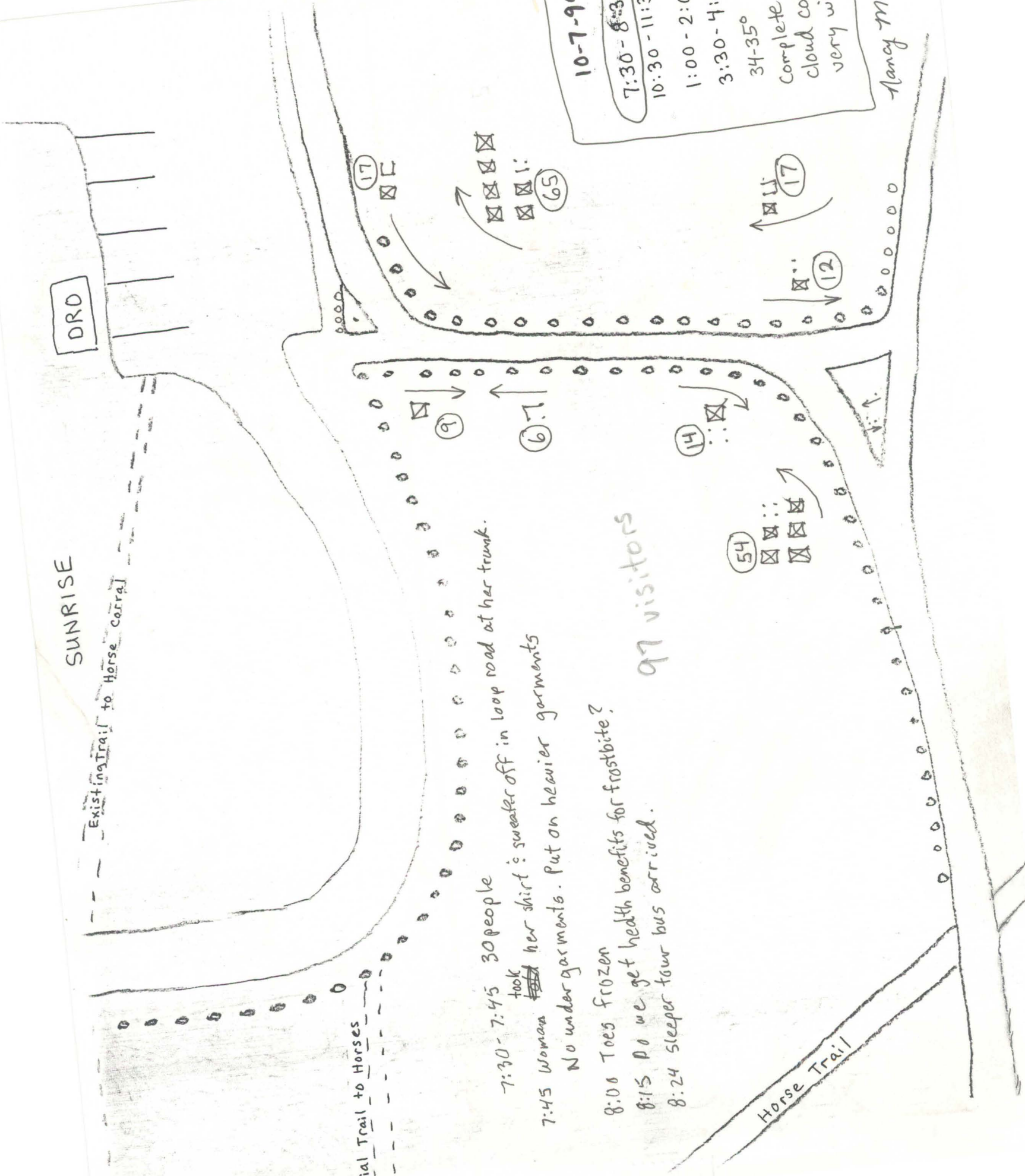
1:00-2:00

3:30-4:30

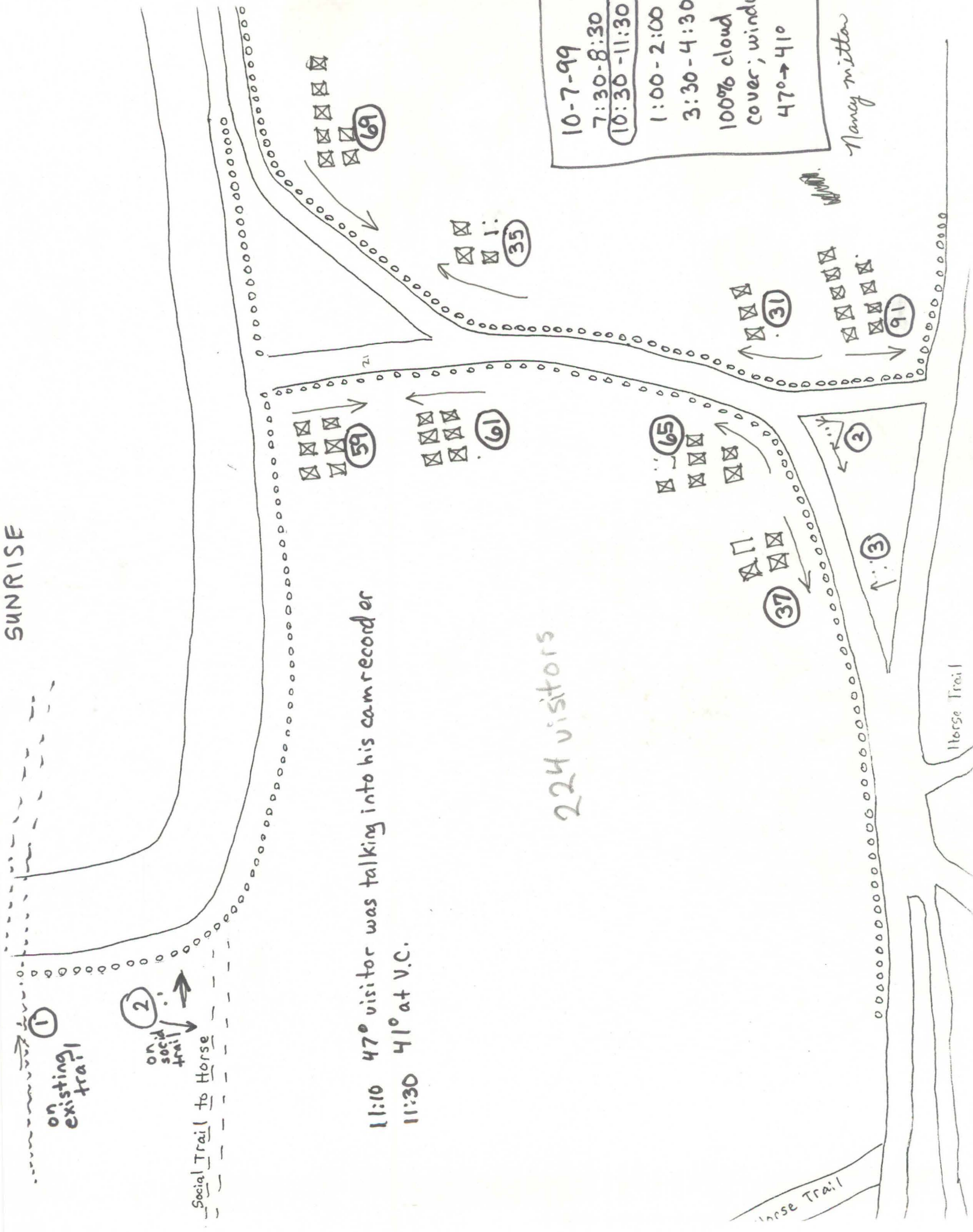
34-35°

Complete cloud cover; very windy

Nancy Mittles



SUNRISE



11:10 47° visitor was talking into his camrecorder
11:30 41° at V.C.
224 visitors

224 visitors

10-7-99
7:30-8:30
10:30-11:30
1:00-2:00
3:30-4:30
100% cloud cover; windy
47° → 41°

Nancy Mitter

Horse Trail

Horse Trail

SUNRISE

DRD

Existing Trail to Horse Corral

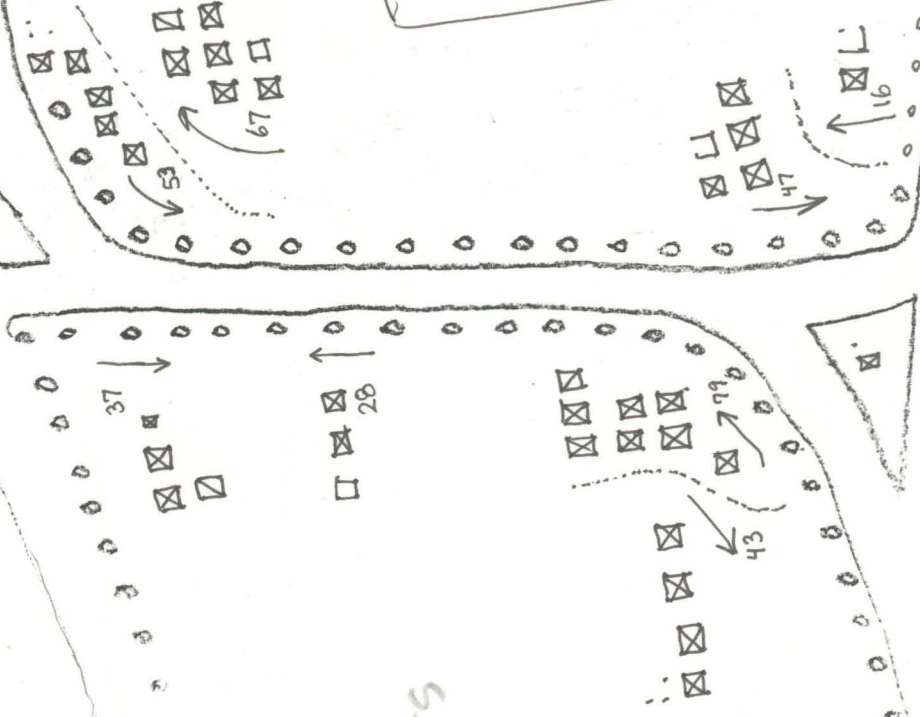
Social Trail to Horses

1:36 Two Japanese people
thought "No walking" ⁹⁸
was leaves or acorns
1:39 Couple "Have trail map." "Yes, but
we will have to find trail"

185 visitors

Horse Trail

10-6-99
7:30-8:30
10:30-11:30
1:00-2:00
3:30-4:30
50% cloud cover
57°
breezy
Nancy Milton



SUNRISE

Existing Trail to Horse Corral

DRD

Social Trail to Horses

- 3:52 Tour bus arrived
- 3:57 Tour bus arrived
- 4:00 Visitor was telling another his thermometer said it is 48°
- 4:02 Tour bus arrived
- 4:15 Tour bus arrived

301 visitors

13

Horse Trail

Horse

180
28
13

13

38

20

28

80

38

1175

11

7:30 - 8:30
10:30 - 11:30
1:00 - 2:00
3:30 - 4:30

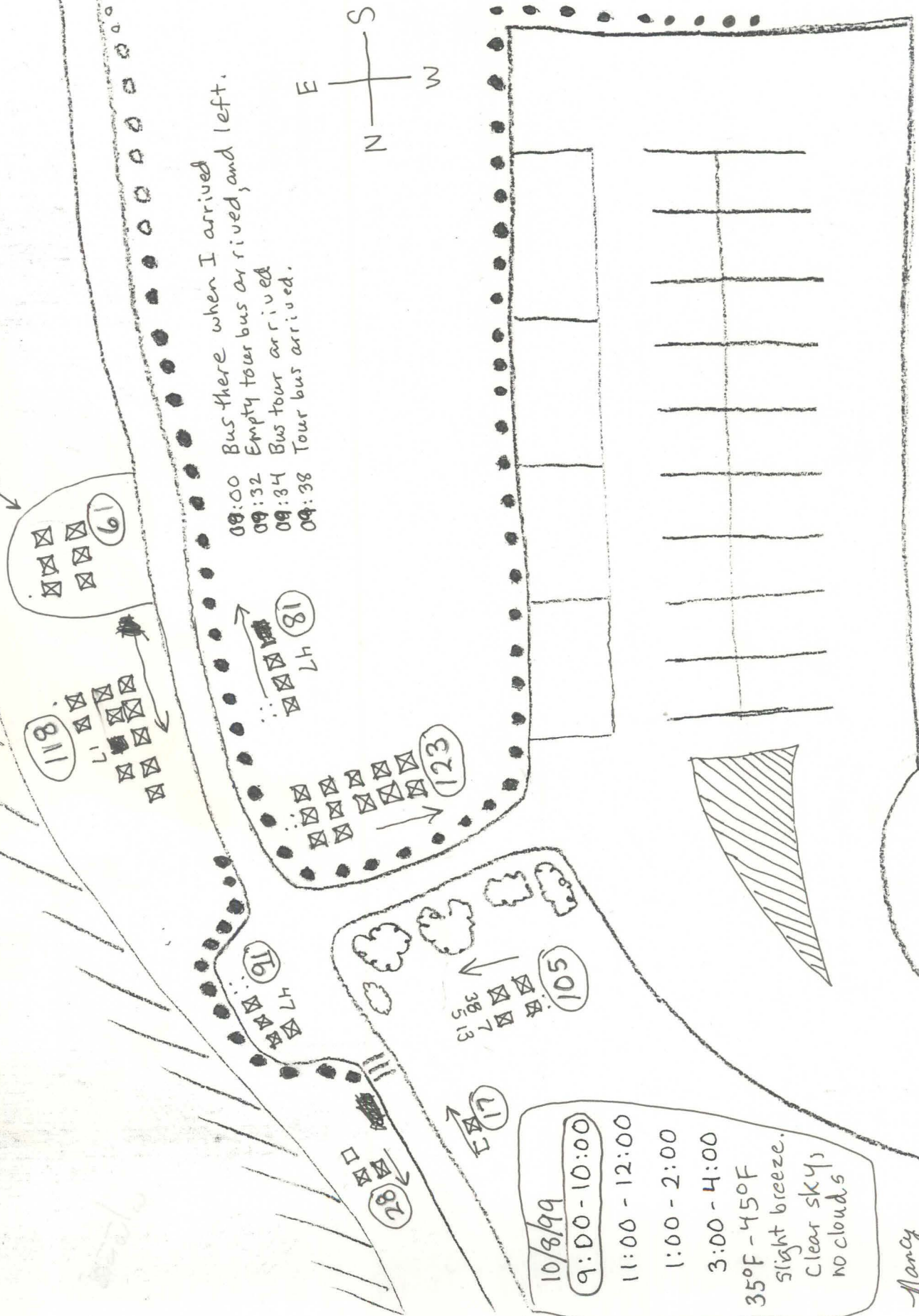
10/6/99

85% cloud cover
breezy
58° → 45°

Nancy Mitten

INSPIRATION

One women sitting on chain-link fence

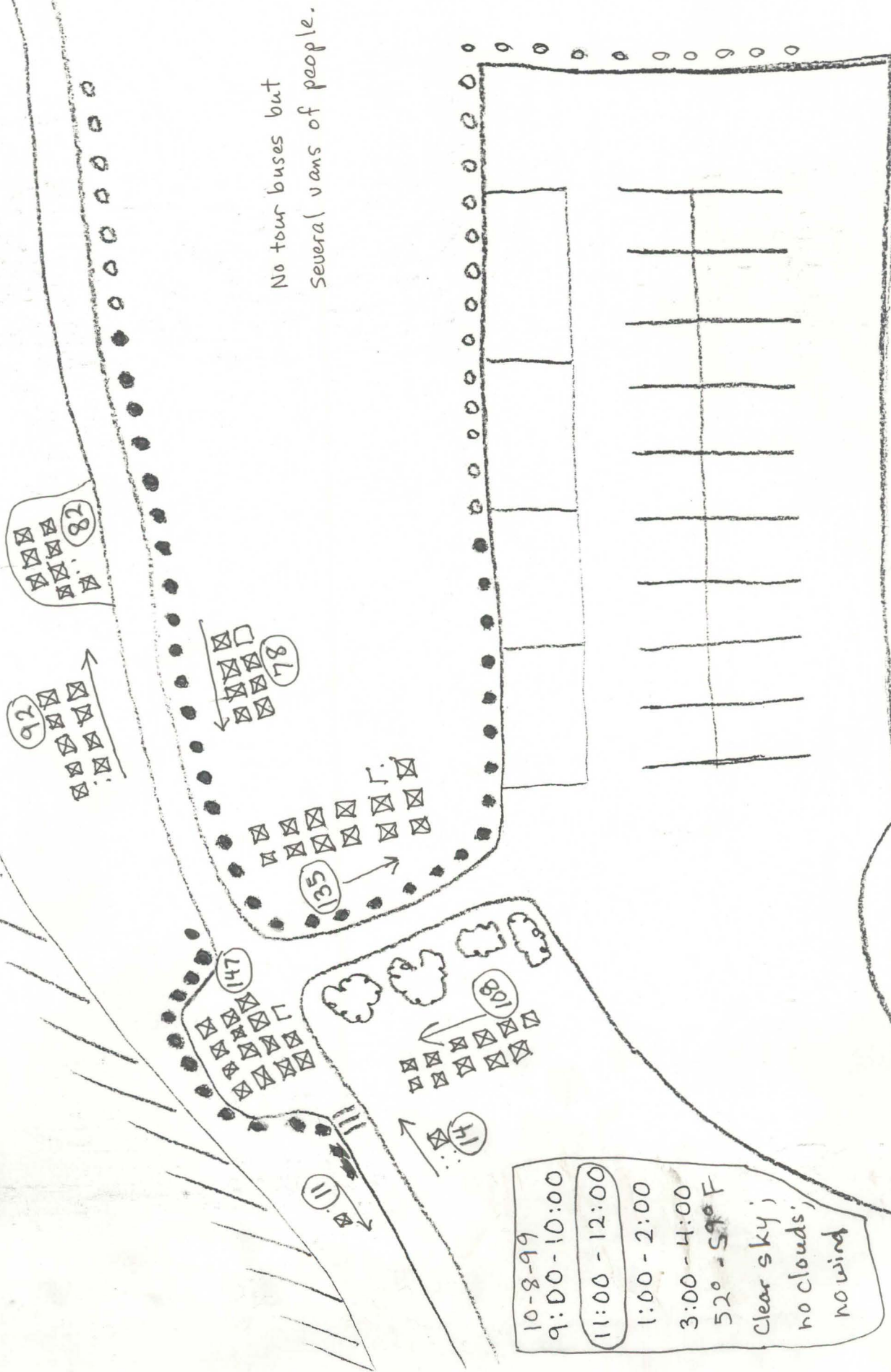


Bus there when I arrived
 09:00 Empty tour bus arrived, and left.
 09:32 Empty tour bus arrived
 09:34 Bus tour arrived
 09:38 Tour bus arrived.

10/8/99
 9:00 - 10:00
 11:00 - 12:00
 1:00 - 2:00
 3:00 - 4:00
 35°F - 45°F
 slight breeze.
 Clear sky,
 no clouds

Nancy
 Mitten

INSPIRATION



Nancy
Metter

INSPIRATION

Sunny, cold wind (VERY WINDY)

- 1:23 Clouds coming in from N.
- 1:25 Nearly blown off cliff
- 1:25 Nearly blown off cliff
- 1:25 Nearly blown off cliff
- moving downhill more

* child sitting on grass

and over look over 100

FENCE

1 fam 3 children
1 fam. - 1 sm. child
1 family - 2 small children
1 father w/ young son
Others mostly couples
young (foreign) +
Cold
1 fam. 5 children
1 fam. 2 children

that went past
1st Landing

143 at
1st landing

82

141

Julie Ames-Curtis

9:00 - 10:00

11:00 - 12:00

1:00 - 2:00 10-7-99
460f

3:00 - 4:00

1 bus 1:38pm
left at 2:00pm

INSPIRATION HQ
 at 3:00pm
 50° sunny - a few clouds
 very cold wind

1 woman walking
 away w/ wood piece

visitors and
 walking away where
 walking to him - close to him
 trail to him - close to him

already at 1st
 landing
 at 3:00 pm
 went on to 2nd
 approx. 20 people
 on 1st landing
 3:00pm

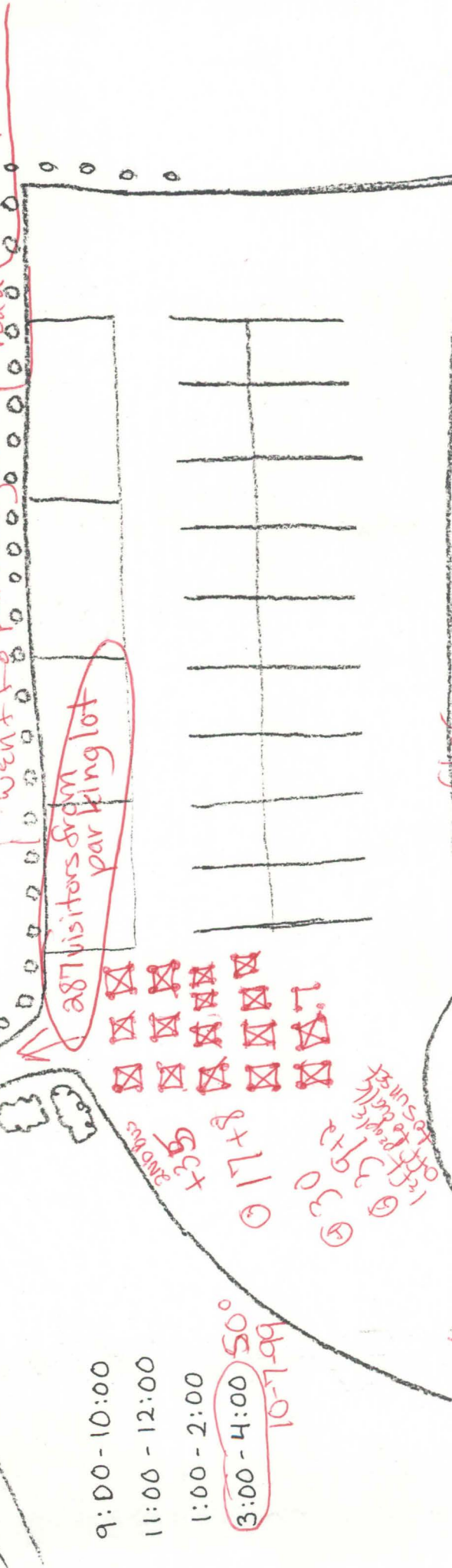
3 w/ back packs who
 did not come up from
 parking lot - going S.
 2 on bikes from sunset
 went to parking lot -
 + down road

102 + 8 that were on landing at 3:00 when started

1 child in stroller
 2 dogs on trail - leash

293 total
 at 1st from
 over look
 3-4
 20 people
 landing
 3:00pm

5 from sunset



287 visitors from
 parking lot

159 330 11 297 2

10-7-99

3:00 - 4:00 50°

1:00 - 2:00

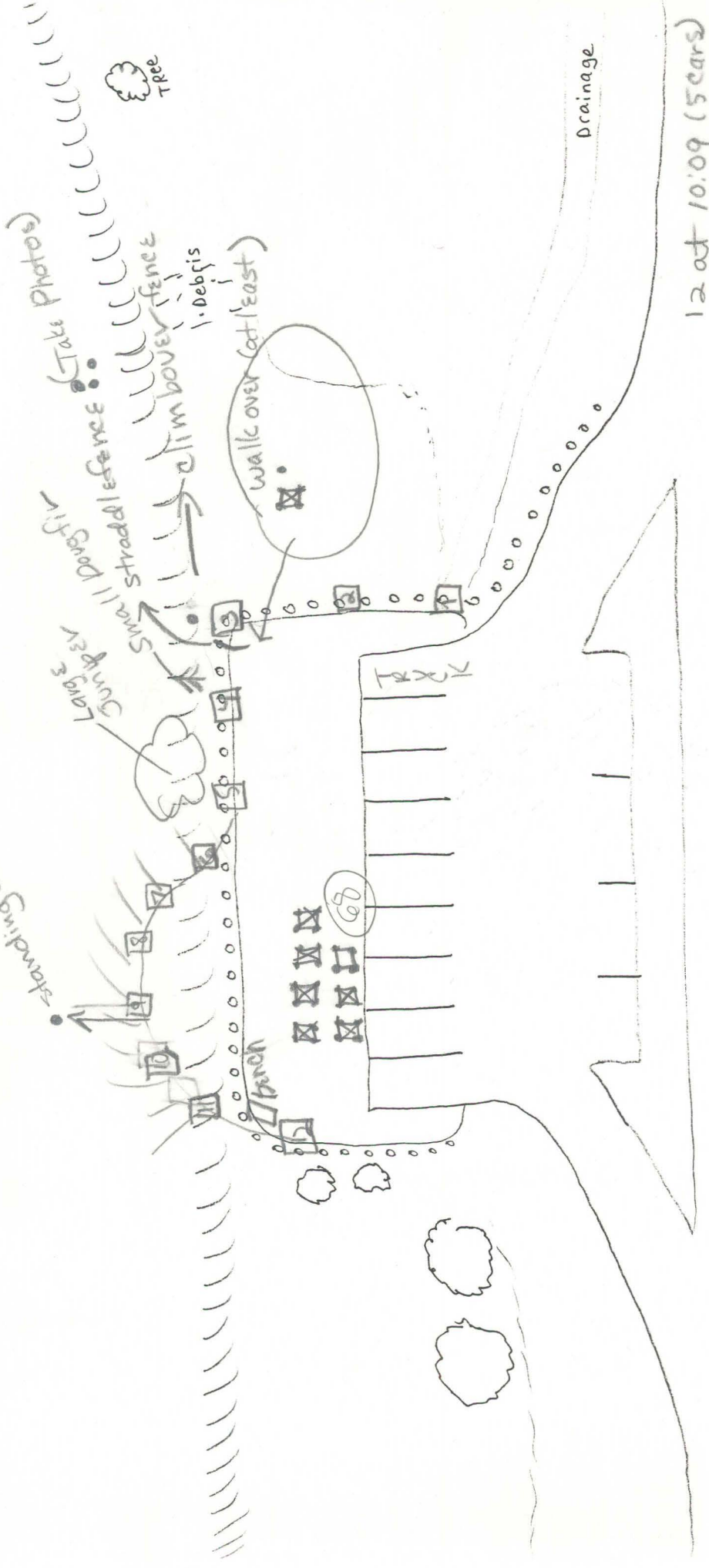
11:00 - 12:00

9:00 - 10:00

1 Bus 3:00pm
 1 Bus 3:07pm
 1 Bus 3:14pm
 1 Bus 3:24pm
 1 Bus 3:42pm

died down at 3:45pm

AQUA CANYON CANAL



1 3 1 1 1 1 1

9:34 1 man walked past end of fence to try to view - saw signs + turned around (looked frustrated)

2nd drive by (fast)

10:09

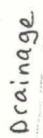
to try to view - saw signs

Juli Ames-Curtis

10:40 10-12-99 9:30-10:30

SUNNY, clear skies 11:00-12:00 12:00-1:00 2:00-3:00

(photo)



3 people = 2 large vans = 2 people

Juli Ames-Curtis

9:30-10:30

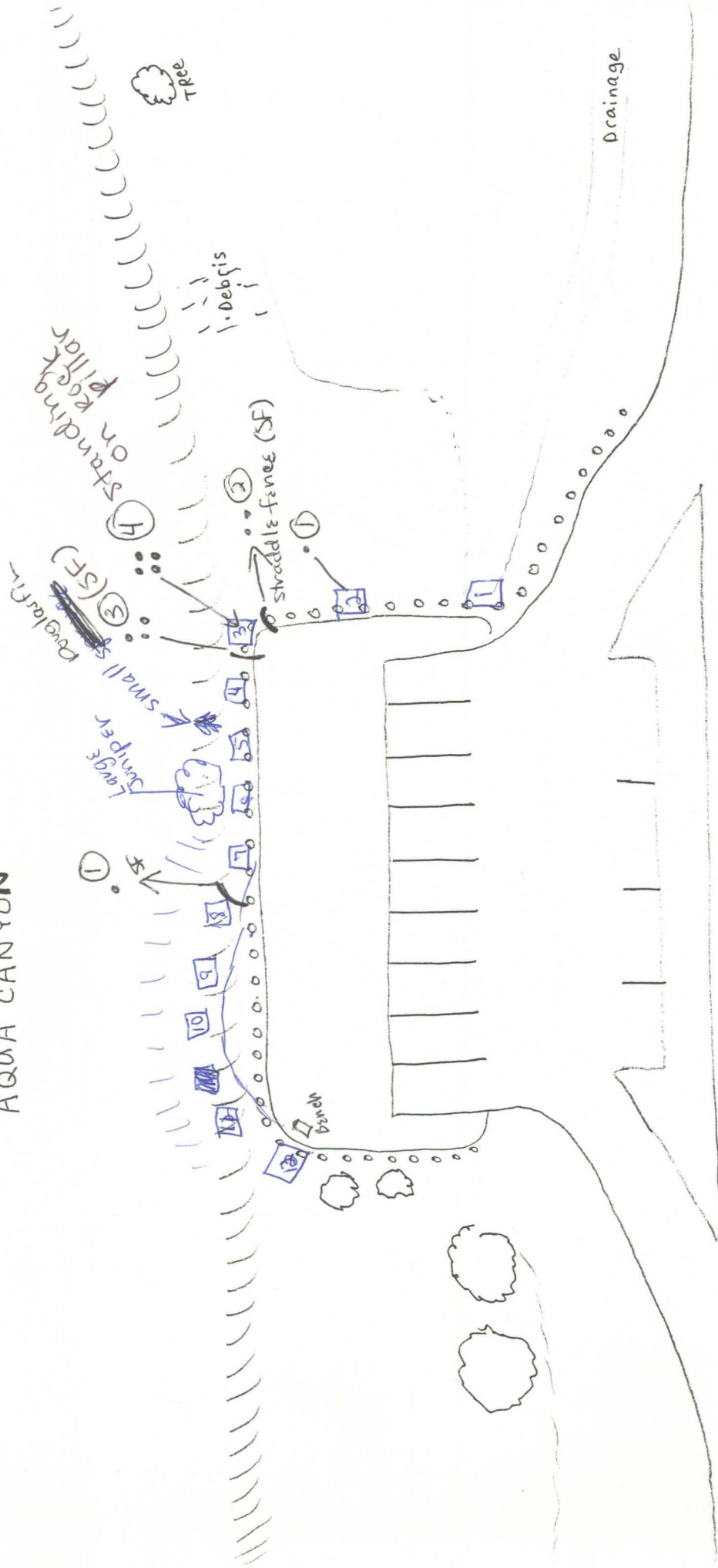
10-12-99

Sunny, clear skies

2:00-3:00

Discussion
Retired "couples"
Young couples
Young families
Cinderellas (99%)

AQUA CANYON



2 drive by 1200

Total = 154 visitors

mostly "retired"

diff. More than 1/2 vehicles CA or NV
a few families w/ younger children

9:30-10:30

11:00-12:00

10-6-99

12:00-1:00

2:00-3:00

high 50's

cool, sunny, windy

clouds to South West

Juli Ames-Curtis

A hand-drawn map of Aqua Canyon. The map shows a winding path or road with several numbered points (1 through 14) and various landmarks. The path starts at the top left, goes down, then right, then down again, and finally right towards the bottom. Key features include:

- Standing on Pillar**: A point on the upper left path.
- Debris**: A point on the upper left path.
- Drainage**: A stream or drainage area on the right side of the map.
- Saddle Ridge**: A point on the lower left path.
- Scrub**: A cluster of trees or bushes near the center.
- 10**: A point on the lower left path.
- 11**: A point on the lower left path.
- 12**: A point on the lower left path.
- 13**: A point on the lower left path.
- 14**: A point on the lower left path.
- 15**: A point on the lower left path.
- 16**: A point on the lower left path.
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131 total visitors
most just got out of car, went
to edge of fence, looked +
got back in to car. Too cool
+ windy to stay long.
Variety of ages.

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July A-C. 10-6-99