

Grand Canyon Working Plan.

Leopold, Aldo, 1887-1948 [s.l.]: [s.n.], [s.d.]

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GRAND CANYON WORKING FLAN

Uses, Information, Represtional Development

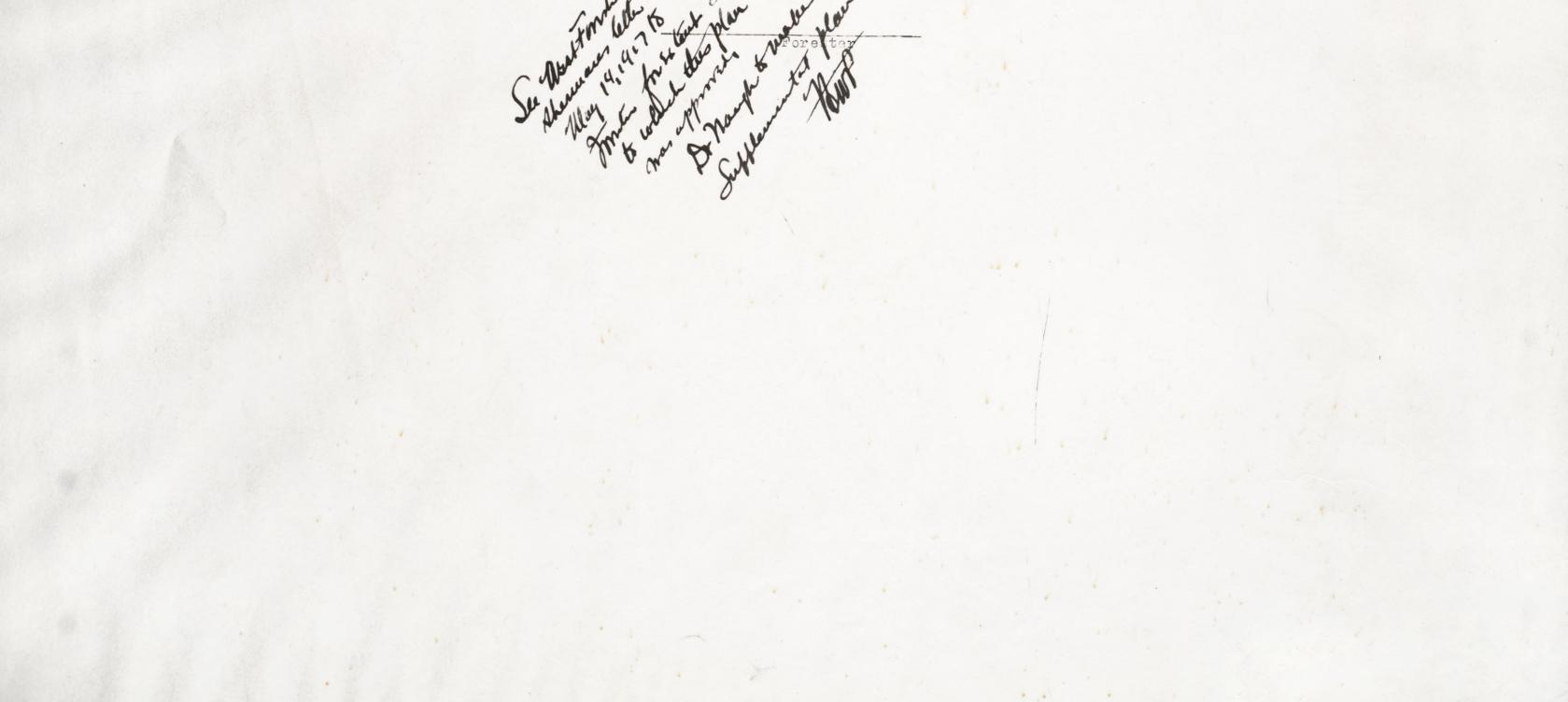
Don P. Johnston, Porest Supervisor Aldo Leopold, Porest Examiner

December, 1916.

Revised in Accordance with Venorandum of March 17. 1917.

1917 Approved (rann 0trict Forester

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OUTLIME

GRAND CANYON WORKING PLAN

Uses, Information, Recreational Development

Don F. Johnston, Forest Supervisor. Aldo Leopold, Forest Examiner.

December, 1916.

Paragraph

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RELATION TO NATIONAL PARE PROJECT

EXISTING CONDITIONS.

Par. 1 Importance of Grand Canyon.

The Grand Canyon has often been called the eighth wonder of the world. It is undoubtedly the most remarkable and coming to be the most famous natural wonder in the United States.

In normal years it is visited by 25,000 people of all classes and nations. This number is constantly growing (see Pat. 26-A.) 100,000 people visited the Canyon in the Exposition year, 1915, and 360,000 have visited it since 1900.

The Grand Canyon is the most important single point of contact between the average American and the Forest Service. From the standpoint of disseminating an understanding of Forest Service Work, it is, therefore, the most important single administrative unit within the Mational Porests.

Par. 2 What Visitors are Subjected to.

In the past visitors have, in warying degrees, been subjected to:

1. Discourteous treatment by business permittees.

E. Local atmosphere of unrest: visitors forced to listen to gossip concerning local bickerings.

3. Offensive sights and sounds, such as electric advertising signs, megaphone soliciting, etc.

4. Unsanitary conditions, such as heaps of stable refuse, accumulated lunch boxes, etc.

5. Inconvenient facilities; no information office; lack of proper trails, walks, toilets, etc.

6. Hon-dependable service, such as rate outting by permittees and failure to keep bookings.

7. Danger of bodily injury, by reason of inferior equipmont, unattended teams, and rolling of stones over the rim.

Par. 3 Attitude of Parties Involved.

The public has naturally been critical of the unsatisfactory conditions. The most notable criticism has been a series of articles and editorials in the Saturday Evening Post. The attitude of the various permittees is in general oritical and dissatisfied. It is believed, however, that this plan of regulation, vigorously executed, will meet with their general approval, except in individual cases where compliance with the proposed plan will involve a temporary inconvenience or cost.

Par. 4 Why Abuses Have Not Been Checked.

The outstanding causes of present unsatisfactory conditions have been:

1. Lack of sufficient authority on the part of the Forest Service to handle the situation. (See Par. 22).

2. The network of mining claims on strategic points and the obstructionary attitude of the claimants. These mining claims have not only prevented the construction of needed improvements but have been used as sites for miscellaneous unregulated enterprises over which the Forest Service has as yet been able to exercise no jurisdiction.

Par. 5 Reed for Regulation.

The general regulations applying to the National Forests are not a sufficient basis for a satisfactory administration of the Grabd Canyon. Any attempt at regulation must be enforcible. There are two means of enforcement: regulation and permit clauses. From the standpoint of practical administration, both means should be available. This is especially important at Grand Canyon, where some operators ocoupy mineral locations and hence are not permittees, and where we have no hold, except through regulations, on the visiting public who are not permittees.

At present, even with permittees, the following items are not subject to either means: personal conduct, defacement, and rolling stones. Permit requirements would gain force by being backed by the Secretary's regulations. The general regulations should be supplemented by special regulations adapted to conditions on this area (See Par. 22.)

The railread interests say they do not expect their investments at Grand Canyon to yield a profit as an independent enterprise. Their value to the railread is as an attraction for transcontinental traffic. They state that the Canyon has not paid except during the abnormal year 1915. On account of the facilities, such as the water supply, over which the railread has exclusive control, it would be comparatively easy for it to throtthe competition, but there has been no disposition on the part of the railread officials to do this. The railread interests have, however, naturally been dispositied with existing conditions and will probably veloces a rational plan of improvement through better regulation.

The Cameron interests have been bittherly critical of both the Forest Service and the railroad. Litigation over their illegal cocupancy has served to keep this feeling alive, but indiostions point toward on early decision in the Government's favor, which will force them to take their place with other permittees or drop out.

Par. 6 Thy Action Can Nor Be Taken.

Of the two causes given in Par. 4 an underlying the abuses heretofore existing, the second is in a fair way to become inoperative through:

(a) Purchase of the Cameron interests by the railroad

(b) Fonding application for injunction by the Forest Service against occupants of Cape Horn Lode in the Arizona Federal Court.

(c) Litigation in the U.S. Supreme Court

The status of litigation of the mining claim complications distates the immediate promulgation of the necessary additional regulations and the putting into effect of a plan of regulation which will remove abuses, result in satisfactory public service, and provide for future development along lines carefully planned in advance.

· Including Rim points, Indian Gardens, foot of Bright Angel Trail, Hermit Creek, Grandview, etc. SCOPE OF FLAN

Par. 7. What This Plan Covers.

The administrative personnel plan, fire plan, and grazing plan are already operating satisfactorily and are not covered berein.

This plan covers Uses, Information, Recreational Development, and local Administrative Improvements only.

It takes up in detail only the areas now in use or applied for, but its principles are susceptible of indefinite extension to a greater area and to future developments.

AIMS AND PROVISIONS OF PLAN Division of Ground Into Zones

Par. 8. Heed for Zones.

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The public visits the Grand Canyon to enjoy a great spectacle of nature.

At the same time the public needs and demands certain material services and conveniences.

The latter are necessarily out of harmony with the surroundings, and it should be the first object of an efficient administration to reduce this necessary discord to a minimum. There are two obvious means to this end.

First, reduce the offensiveness of material service as far as possible (See Par. 11 - 15).

Second, segregate the various classes of service according to the degree in which they are objectionable and remove them to the background as far as compatible with public convenience. To accomplish this segregation the following zones are proposed:

Par. 9 Definition of Zones and List of Uses to be Allowed in Hach.

1. Bim Zone. (Includes all of rim at terminal and all wantage points on rim anywhere within the National Monument.) Frails, walks, seats, observation baloonies, rests, shelters, rangefinders, and information signs only.

Par. 10 Discussion of Zones.

The foregoing classification should not prevent superior use of an inferior zone.

No argument seems necessary to support the foregoing somel classification, except with respect to the following:

Curio Shops in Zone 2. From the viewpoint of pure esthetic theory these belong in Zone 4. But from a more practical viewpoint the following facts must be recognized:

a. The average tourist regards the ourio shop as a museum rather than as a store. He visits it for pleasure, not for utilitarian purposes.

b. The existing curic shope are in Lones 1 and 2 (Verkap, Hopi House, Lolb, Look Out.)

e. In external appearance, curic shops can be made more compatible with Zone 2 than other stores.

Curio dealers will not be able to abuse locations in Sone 2, by branching out into General Ecrohandise by reason of the fact that the proposed regulations authorize the regulation of character of service (See Far. 22.)

Livery Offices in Zone 2. The average canyon visitor looks on livery service as an essential part of his Canyon trip. He wants to make his arrangements without loss of time or unnecessary inconvent ience; and as he will confine his limited time to Zones 1 and 2, the livery offices should be located there. Moreover, the Company bookings are made in this zone, and to place other operators elsewhere would be unfair.

<u>Cottages in Zone 2</u>. Bates at Grand Canyon Hotels are nocessarily so high as to prevent people of moderate means from making more than the briefest visit. Housekeeping cottages are the only means for accommodating such people. Cottages in other senses would not attract them.

Zone 3. Convenient water and a desire to be centrally located will automatically confine permanent residences to that part of Zone 3 south of the tracks, while the view will confine visiting cottagers to that part to the east nearer the rim.

2. Accommodation Zone. Hotels, club houses, cottages (for rental to visiting public only), livery offices, landing blocks, loading correls, and shops dealing in photographs, paintings, Indian goods and curios of local interest. Photographs inoludes moving pictures of the Grand Canyon.

3. Residence Sone. Frivate residences and cottages. The school house, church, and tennis court sites also fall within this some.

4. Commercial Sone. General stores, garages, barber shops, musement halls, ordinary moving picture shows, billiard rooms, manicure parlors, peanut stands, soda fountains and quick lunch counters.

5. Seasonal Camp Some, where those who wish to erect a cheep tent house or other temporary quarters may be accommodated.

6. Public Camp Grounds, where tourists may stop for temporary camping.

7. Stables Zone. Corrals and stables of livery-men, temporary or permanent. Practicability of Adjusting Present Uses. No legal or permanent structure will have to be moved now. . Kolb's Studio, which is in the Rim Lone, will ultimately have to be rebuilt further back.

Nature of Structures.

Par. 11 Why and How to be Regulated.

All of the permanent Company buildings are unobjectionable except the Power House. Many of them are exceptionally attractive. As long as the Company's work is passed upon by Hiss Colter, its present architect, its appropriateness can be considered assured.

Host other structures now existing are objectionable in Various degrees and ways.

Under Clause (6) of the new permits (See Par. 23) all future construction should be made to comply with the strictest standards, and all existing structures maintained so as to be as unobjectionable as possible.

While future structures in Lones 1 and 2 will naturally have to comply with a higher standard of appearance than elsewhere, no permit for an unnecessarily ugly or objectionable building should be issued anywhere for any purpose. This does not mean that architectural or cost standards are to be enforced against stables, box-cor

mBr.

shacks, but that, with due regard for nature, purpose and location, an appropriate standard of neatness will be the irreducible minimum requirement.

Regulation of Business

Par. 12. Objects and Principles of Regulation.

The objects of regulation of business are to assure the travelling public of adequate service, personal safety, convenience, protection against excessive rates, and prevention of nuisances and annoyance.

The commercial interests of business permittees are not an object. They are a means to the above end.

The regulation of business at the Canyon presents theoretically a range of alternatives varying from absolute monopoly to absolutely unrestrained competition.

Monopoly, however, is not compatible with the Forest regulations or ideals, and would be repugnant to many visitors. It relieves the favored party from the losses through mismanagement, and is, mereover, not apparently desired even by those in a position to profit by it.

Unfair competition in the form of unequal assumption of responsibility to the public is incompatible with stability and quality in service.

The proper principle of regulation is undoubtedly a competitive system with uniform requirements as to service stiff enough to assure quality and stability, and an equibable distribution of responsibility to the public. In so far as known, there is no divergence of opinion up to this point. The question is, what particular scheme of regulation and just what requirements will be both practicable to enforce and effective in securing the results desired?

The first thing to consider is our own limitations. What kind and degree of regulation are we prepared to handle?

We are not prepared to handle any scheme necessitating a detailed knowledge of lines unfamiliar to Foresters. We could accommodate public demand. The conclusion is that we should not in general attempt to prescribe the size or regulate the number of business enterprises. We can, however, assure operators that competitors will not be admitted unless they assume their share of responsibility in serving the public and in maintaining conveniences jointly used. In rare cases it will be obvious that the admission of competition will cause a net reaction unfavorable to good service. In suchrare cases we should have authority to deny permits.

Again, suppose there were no place for the travelling public to get emollights for sunburn. We could not tell the proprietor of the general store that the public demands that he carry a certain specific brand; but we could require him to carry a simple line of drugs. In all probability he would do so anyhow. We should, in the interest of the public, have authority to regulate the character of service, but should exercise it with discretion.

Again, supposing an applicant for livery permit were known to have a doubtful character or a bad reputation. In all probability the public would not be properly served by such a person. We should have authority to reject applications from unreliable or disreputable persons.

The proposed system of regulating business is implied in the foregoing examples, and outlined in more logical form in the following paragraphs.

Par. 13. Insuring Service, Safety, and Convenience.

Means		How I	Inforced
(a)	Liverymen must have permit ted equipment available yearlong	Permit	Clause 9.
(b)	Liverymen must adhere to published sche- dules, rates and office hours	Π	" 12.
(c)	Equipment and animals used by liverymen must be up to stated standards, kept in proper condition, subject to inspection.	Π	" 11.
(ā)	Traffic Regulations must be observed by all	Regulat	tion 2.
(e)	\$5,000 Indemnity Bond against injury to patrons	Permit	Clause 3.
(1)	Rolling stones over Rim prohibited	Regulat	tion 2 (c).
(g) Par. 1	14. Controlling Rates.		

not, for instance, attempt to prescribe the current prices of merchandise. We would, however, know when prices became obviously excessive. The conclusion is that we should not (except for livery service) attempt to prescribe rates, but we should reserve authority to reduce excessive rates. The rest should be left to competition.

(1) Again, we are not prepared to keep track of the current cost of operating a certain livery outfit, but if the operator were to charge a tourist \$5.00 for a trip advertised by him at \$4.00, we would know there was extortion. Standard charges by first class outfits for regular trips can be established as maximum rates, provided such maxima are made adjustable to changing conditions as to feed costs, labor costs, etc. The conclusion is that livery permittees should be made to adhere to published schedules and rates, subject to adjustable maximum rates for regular trips. The rest can be left to competition.

(2) Again, we are not prepared to judge whether a new general store should carry a \$10,000 or a \$12,000 stock of goods, nor with certainty whether an additional store is needed to

Means. How Enforced. (a) Reserving authority to control rates Regulation 1. (b) Prescribing maximum livery rates Permit Clause 12. Par. 15. Preventing Nuisances. (a) Sanitation Permit Clause 14. (b) Livery soliciting 13. (c) Advertising and general soliciting Regulation 2 (b). (d) Defacement 2 (d). (e) Reputable permittees 1. (f) Haggling over rates (Adherence to Schedules) 1.

Financing and Regulating Improvements

Par. 16. Principles and Necessary Concessions to Expediency.

In principle, the Government should construct and maintain all needed improvements which do not bring a direct return to or form an integral part of a private commercial enterprise.

In practice, private parties have constructed and are maintaining practically all except administrative improvements. Roads. Trails, and rim development to a claimed value of \$204,00077(exclusive -3-of maintenance) have been built by the railroad interests alone. *See Ford Harvey's letter Dec. 23, 1916, in files. Private parties, especially the Company, can do this work economically by using available equipment and men at odd times.

The Forest Service has not had the funds to do this work in the past. There are no grounds for supposing that it will have more funds in the future. Development must keep pace with increasing use. The practice heretofore followed must therefore be allowed to continue as a concession to expediency. Private interests, of course, get some indirect return from anything that improves the Canyon .7/28/17

In accordance with the foregoing:

FOREST SERVICE WILL

UNDERTAKE :

ALLOWED TO UNDERTAKE :

PRIVATE INTERESTS WILL BE

Administrative Improvements Park Divelopments Road & Trail Surveys and Estimates Rim Developments " Maintenance Supervi-New Roads and Trails sion Collection of Road & Trail As-Road & Trail Maintenance sessments To Contribute to Road Maintenance Fund To extent of offsetting wear aand tear incident to their use by the general public not patronizing livery outfits, and so far as possible beyond this point.

Par. 17. Maintenance of Existing Roads and Trails.

The Rim Roads at Grand Canyon do not appear on the county records as public roads. They bring no appreciable direct return to any large body of local people. It is therefore unlikely that the county or state will ever undertake their maintenance.

As pointed out in Par. 16. Roads and Trails will have to be maintained principally by the commercial enterprises which use them, namely, the livery permittees. There are three alternative methods of distributing the burden:

> (1) Tolls Cumbersome, expensive to collect.

> > inelastic. Rejected as impracticable.

(2) High Livery Permit Charge.

Receipts would accrue to U. S. Treasury, and reappropriation would depend on Congress. Rejected as immaintenance of Grand View Road System.

4. All maintenance work to be under supervision of Forest Service. In the case of the Hermit Rim Road, this supervision may be merely nominal.as long as past quality of work continues.

5. Assessments to be based on number of permitted transportation units. Assessments enforcible under permit clause 2 and Bun by Mc Regulation 1. Transportation unit defined as follows:

1 Unit = 1 team horses

= 4 saddle horses

= 1 light auto in Ford class

= heavier autos

Trail stock not to be considered in road assessments.

6. Forest Service to contribute at least to extent of

offsetting maintenance charge due to non-commercial usage.

7. Question of whether maintenance work is to be contracted, how and where and in what form applied, and all engineering questions, to bessettled from year to year, according to conditions then existing, by Highway Engineer.

Par. 18. Formula for Calculating Assessments.

Under the foregoing premises

Let HR = Hermit Rim Estimates (Work to be done by Company)

GV = Grand View Estimates

FS - Forest Service Funds to be contributed.

A = HR + GV - FS

T = Total Number of Assessible Transportation Units.

X = Any Operator's

Then

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uit allom

Company Assessment for Grand View = A.X - HR

Any Other Operator's Assessment for Grand View = A.X

The following conclusions are obvious, from the above

formula:

If HRvis greater than the company's regular assessment they contribute nothing toward Grand View.

FS goes to maintain Grand View. This is equitable, inasmuch

practicable.

John Doe

-4-

- (3) Cooperative Fund. Assessments based on use.
 - (a) By tallying actual daily use. Impracticable for same reason as tolls.
 - (b) Assessment based on number of transportation units held under permit. Believed to be the only practicable plan.

The proposed workings of method 3 (b) are as follows: 1. Forest Highway Engineer to make an annual advance appraisal of maintenance work necessary on Hermit Rim and Grand View Road Systems and permittes to be notified annually in advance of their pro rated share.

2. The Company built, and is the heaviest user of the Hermit Rim Road, has been maintaining it, and under this plan is to continue its maintenance to extent of Engineer's estimate, any surplus in Company's pro rata assessment to be applied to maintenance of Grand View Road system.

3. Other livery operators' assessments to be used in

as we are trying to cover wear and tear by overland tourist cars,

and these are not allowed on the Hermit Rim Road.

Bass assessment (for Grandview) = $\frac{2500 \times 10}{85}$ =

(for Grandview) # 2500 x 5

The fallowing example will elucidate the working of the formula. The figures are based on a rough guess at 1917 conditions.

Example of Workings of Formula

859.00

2059,00

294.00

147.00 \$2500.00

Let HR = \$1200 GV = \$1500 FS = \$200A = \$1200 + 1500 - 200 = 2500 X = 70 units for Company = 10 units for W. W. Bass = 5 units for John Doe T = 85 units Then Company assessment for Hermit Rim = - -\$1200.00 Grandview = 2500 x 70 - \$1200 =

Total

4		• •	 • •	-	 +	-	 • -	-	-	•	-	+		-	-	\$2500.00
73 -			 	-	 -	+	 	-		-		+	-	-		200.00
Total	Fund	-	 			-	 	-	+	-	-	-	-	+	4	2700.00

New Construction Pending or Needed

Par. 19. Projects for Convenience of Public and Commercial

Projects.

Under the policy proposed in Par. 16, the following is a summary of new construction applied for or anticipated. Detailed discussion of each project appears in the appendix as noted in each case :

Project	To be Constructed and maintained under Permit by :	Estimated I	For details see Par.
Cottage Rim (walls, walks, etc.)	R. R. Company	\$6000	63 - A
Rim Park (west of cottages)		\$5000	62 - A
Rim Park (at Verkamp's)	Verkamp	7	62 - A
Rim Park (east of Verkamp's)	" (?)	\$1000	62-4
Replacing El Tovar Board Walk	R. R. Company	9	
*Housekeeping Cottages		(?) large (10 cottage	
*General Store	" (or other private party)	?	59-A
*Indian Gardens Develop- ment	R. R. Company	\$100,000	57-A
*Desert View (Tent Houses)		٩.	∆ -06
Trail to Yavapai Point	FG S. if possible	\$300	64-A
*Livery Offices	Livery permittees	\$350 eac	h 61-A

*Commercial

Par. 20. Administrative Improvements.

To Be Built By Forest Service. Given In The Order of Need.

Project

Location

For details

Enth

see Par. Cost

Information Bureau Office

(e) Information Office with Permanent Exhibits. Fire Map. Pictures; Literature, etc. (Par. 73-A)

(f) Wireless Telephone Line Across Canyon (Par. 76-A)

(g) Folder Map (prepared but not printed) [Par. 75-A)

EXECUTION OF PLAN

Par. 22. Draft of Needed Regulations, and Area to Which They Should Apply.

In order to put the foregoing plan into effect it is necessary to have additional regulations and to make certain existing ones more specific. The following are recommended:

> By virtue of the authority in me vested by the Act of June 4, 1897 (30 Stat. 11, 35), as amended by Act of February 1, 1905 (33 Stat. 628) I. D. F. Houston. Secretary of Agriculture, do here-by make and publish the following regulations to be in full force and effect from 1, 1917. on the following described areas within the Tusayan

> National Forest, Arizona: All that part of the Grand Canyon National Monument as established by Proclamation of January 11, 1908 lying south of the Colorado River, and all of Township 31 North, Ranges 2 and 3 East, Gila and Salt River Meridian.

Reg. 1 (L).

In issuing permits for any business first consideration shall be given to the public interests and public service, and nothing shall be permitted to interfere with the fullest and freest enjoyment of the area by the public. No permits of any kind shall issue except to reliable and reputable parties, and subject to such conditions with respect to the nature. style, maintenance and location of structures, the furnishing of bond, the character and condition of equipment and service, the making of and compliance with equitable schedules and rates, the orderly and safe conduct of business, and (in the case of livery applicants), the contribution of an equitable proportion of the cost of maintenance of roads and trails, as the Forester may deem necessary for the safety and convenience of the public and the proper preservation of the scenic attractions of the Grand Canyon.

Reg. 2 (T).

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The following acts are prohibited:

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(a) Camping without a permit on an area designated for other purposes.

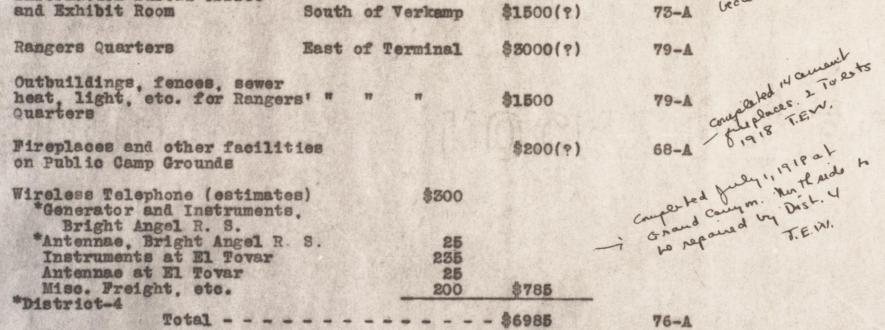
(b) The posting or displaying of sign boards or advertising material or soliciting for business without a permit.

(c) The rolling, pushing or throwing of stones over any wall, precipice or slope. (d) The defacement of structures or natural

Objects by carving, painting, or other means. (e) Permitting passengers to enter, occupy.

or leave a horse drawn vehicle without the driver thereof being in his seat.

(f) Driving or leaving vehicles between the



Disseminating Information About the Forest Service

Par. 21. List of Methods.

In Operation

(a)	Hopi Fire Lookout, with register, literature, etc. (Par. 74-A)
(b)	Lunch Box Gard (Par. 50-A)
(c)	Signs (partly in operation) (Par. 779A)
(ā)	Camping Permit (Par. 68-A)

Proposed

Hermit Rim Road and the brink of the Canyon.

(g) Stopping or leaving vehicles or horses in b such a manner as to obstruct free passageway over any road, or ready access to any public landing block. (h) Leaving horse drawn vehicles or saddle animals along any road without being hitched or attended.

(1) Driving vehicles so as to interfere with the line-up of trail parties, which have the right of way

(j) Sending out a trail party under any of the following conditions:

1. Unaccompanied by a guide.

2. Comprising more than 10 persons, or more than 5 women or children.

5. Using stock not first broken to the trail on which used by a guide.

4. Using both horses and mules in the same party.

(k) Using of motor vehicles without

1. Sounding thenhorn when approaching curves or ridges, or when meeting or passing other persons or vehicles.

2. Giving horse drawn vehicles the right of way.

3. Closing muffler cutout while passing horses, hotels, or camps.

4. Displaying front and tail lights after dark.

5. Stopping engine while the driver is away from the car.

(1) Driving any motor propelled vehicle on the Hermit Rim Road, the Hopi Point Road from the main Ash Fork Road to the Hermit Rim Road, the road from Rowe Well Ranger Station to Hopi Point, and the road from the main Grand View Road to Yavapai Point, except as permitted by the Forest Officer in charge for:

> 1. The protection of life or property, or

2. The transportation of labor or material between dark and sunrise.

-5-

The following are the regulations under paragraph 22 as actually promulgated:

SPECIAL ADMINISTRATIVE AND TRAFFIC REGULATIONS GRAND CANYON Tusayan National Forest

By virtue of the authority vested in the Secretary of Agriculture by the Act of February 1, 1905 (33 Stat., 628), amendatory of the Act of June 4, 1897 (30 Stat., 11), I. D. F. Heusten, Secretary of Agriculture, de hereby make and publish the following special regulations, effective from and after June 1, 1917, for Tewnships 31 North, Ranges 2 and 3 East, G. & S. R. M., within the Tusayan National Forest, Aris-ona, in addition to the general regulations applicable to said National Forest.

The following acts are forbidden unless authorized by a written permit given by a Forest Officer:

L. Camping on lands which have been designated by the Forest Supervisor for some particular use.

The posting of advertising signs.

2. Soliciting business. 3.

The following acts are forbidden except when specifically authorized by a Forest Officer as unavoidably necessary in connection with permitted improvements or construction work: The defacement of structures or natural objects. Rolling or throwing stones over any wall, slope,

1.

or precipice.

Traffic Regulations:

1. No vehicle shall be driven or allowed to stand between the Hermit Rim Road and the brink of the Canyon.

2. No vehicle or animal shall be left in such a

2. So vehicle or animal shall be left in such a manner as to obstruct free passageway over any road or prevent ready access to any public landing block. 3. No animals used for transportation purposes shall be left on any road or public place without being tied or at-tended, nor shall any horse-drawn vehicle be left on any road or public place unless the team is tied or attended. or public place unless the team is tied or attended. 4. Trail parties shall have the right-of-way and no any road the driver of an to interfore with their linear.

vehicle shall be driven so as to interfere with their lineup. 5. Meter vehicles must give horse-drawn vehicles

the right of way; must sound horn when approaching curves or the tops of ridges or when passing other persons or vehicles going in the same direction; must close muffler sutout while passing houses, hotels, or camps; must display front and tail lights after dark; must not be left unattended with engine

6. Trail parties may be sent out only under the folrunning. lowing conditions:

Accompanied by a guide.

(b) Het more than 10 persons or more than

5 women or children in a party. (c) Stock must be broken or accustomed to

the trail on which used. (d) Herses and mules may not be used in

7. He meter-propelled vehicle shall be allowed on the Hermit Rim Read, the Hepi Peint Read from the Main Ash Fork Read to the Hermit Rim Read, the read from Rowe (Well) Ranger Station to Hepi Point, and the read from the main Grand View Read to Yavapai Point, except under permit by a Forest Officer when necessary for the protection of life or property or the transportation of labor or material between dark and



Special Administrative and **Traffic Regulations**

Grand Canyon National Monument **Tusayan National Forest**

The following acts are forbidden unless authorized by a written permit given by a Forest Officer:

1. Camping on lands which have been designated by the Forest Supervisor for some particular use.

2. The posting of advertising signs.

3. Soliciting business.

The following acts are forbidden except when specifically authorized by a Forest Officer as unavoidably necessary in connection with permitted improvements or construction work:

1. The defacement of structures or natural objects.

2. Rolling or throwing stones over any wall, slope, or precipice.

TRAFFIC REGULATIONS.

1. No vehicle shall be driven or allowed to stand between the Hermit Rim Road and the brink of the Canyon.

2. No vehicle or animal shall be left in such a manner as to obstruct free passageway over any road or prevent ready access to any public landing block.

3. No animals used for transportation purposes shall be left on any road or public place without being tied or attended, nor shall any horse-drawn vehicle be left on any road or public place unless the team is

4. Trail parties shall have the right-of-way and no vehicle shall be driven so as to interfere with their lineup.

5. Motor vehicles must give horse-drawn vehicles the right-of-way; must sound horn when approaching curves or the tops of ridges or when passing other persons or vehicles going in the same direction; must close muffler cutout while passing houses, hotels or camps; must display front and tail lights after dark; must not be left unattended with engine running.

6. Trail parties may be sent out only under the following conditions:

- (a) Accompanied by a guide.
- (b) Not more than ten (10) persons or more than five (5) women or children in a party.
- (c) Stock must be broken or accustomed to the trail on which used.
- (d) Horses and mules may not be used in the same party.

7. No motor-propelled vehicle shall be allowed on the Hermit Rim Road, the Hopi Point Road from the Main Ash Fork Road to the Hermit Rim Road, the road from Rowe Well Ranger Station to Hopi Point, and the road from the main Grand View Road to Yavapai Point, except under permit by a Forest Officer when necessary for the protection of life or property or the transportation of labor or material between dark and sunrise.

In carrying out the foregoing regulations first consideration shall be given to the public interests and to public service. Permits should be granted only to reputable and reliable persons, firms, or corporations, and subject to such conditions relating to structures, equipment, service, rates, protection of the public, the furnishing of bonds, contributions toward the cost and maintenance of roads and trails, and payments for land occupied as the Forester may deem necessary for the safety and convenience of the public and the proper preservation of the scenic attractions of the Grand Canyon.

In testimony whereof I have hereunto set my hand at Washington, D. C., this twenty-second day of May, 1917.

D. F. HOUSTON.

sunrise.

In carrying out the foregoing regulations first consideration shall be given to the public interests and to pub-lic service. Permits should be granted only to reputable and reliable persons, firms, or corporations and subject to such conditions relating to structures, equipment, service, rates, protection of the public, the furnishing of bends, contributions toward the cost and maintenance of reads and trails, and payments for land eccupied as the Forester may deem necessary for the safety and convenience of the public and the proper preservation of the scenic attractions of the Grand Canyon.

The regulations approved June 14, 1915, the regula-tions approved February 17, 1917, and regulations approved April 30, 1917, are hereby superseded by the foregoing regu-lations, effective June 1, 1917.

In testimony whereof I have hereunte set my hand at Washington, D. C., this 22nd day of May, 1917.

(Signed) D. F. Houston

Secretary of Agriculture.

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(Inserted)

The regulations approved June 14, 1915 and effective June 20, 1915, and the regu-lations approved February 17, 1917, and effec-tive March 1, 1917, are hereby amended accord-ingly, but nothing herein contained is intended to prevent the application on the above area of all general Mational Forest regulations not of all general Mational Forest regulations not inconsistent with the purpose of the National Monument and not in conflict with these regulations.

In testimony whereof I have hereunto set my hand and official seal at Washington, D. C. 1917. day of this

Secretary of Agriculture.

Sample Livery Permit. Par. 23.

UNITED STATES DEPARTMENT OF AGRICULTURE

Forest Service

SPECIAL USE PERMIT

L Uses - Grand Canyon Livery

of Grand Permission is hereby granted to Canyon, Arisona to use the following described lands:

and to operate a commercial livery at the Grand Canyon subject to the following conditions:

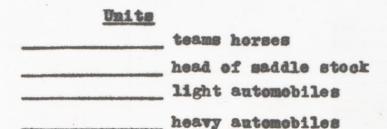
Payments and Bonds

(1) The permittee shall pay to the First National Bank of Albuquerque, New Mexico (United States Depository), to be placed to the credit of the Treasurer of the United States; in consideration) for for this use, the sum of _ dollars (\$ to December 31, 19 the period from dellars(\$ and thereafter annually, on January 1, (2) The permittee hereby agrees to pay annually in advance

to the above designated United States Depository, in accordance with the Act of June 50, 1914, authorizing cooperative contributions to Modefeed - To the Forest Service, his proportion of the maintenance of Grand Canyon muter reads and trails, as estimated by the Ferest Service. This payment prefit roads for the period ending December 31, 19, amounts to dellars (\$). The permittee will be notified annually, in advance, both fermet

Since it is realized that this permit enables the permittee Set Luch to participate in the business use and advantages of reads built by 7/28/17 15 another livery permittee at a reported cost of first and built by 7/28/17 15 another livery permittee at a reported cost of \$185,000., future es- N.H. Ben. The timates and charges may also include such proportion of the annual capital carrying charge upon this investment or other charges as may be determined by the Forester to be fair and equitable to all parties in interest.

(S.) This permit shall be of no force and effect until an indemnity insurance bond in the sum of Five Thousand Dellars (\$5,000.00), to cover all injury to patrons has been furnished by the permittee and the ond Miscellaneous His letter Bass approved the Forest Service.



(9) The permittee must not load vehicles beyond their rated seating capacity, and must have the above described equipment available for use on demand throughout the year, except as reductions are allowed in writing. Reductions for periods longer than 10 days must be approved by the District Forester.

(10) The permittee must meet any and all demands for trips scheduled by him up to the capacity of transportation equipment on hand in accordance with clause (9).

(11) All animals and equipment are subject to inspection by the Ferest Officer in charge, who may condemn until put in condition all such animals or equipment found by him to be unsafe or unsatisfactory or not conforming to the following standards of maintenance;

Animals: Well broken; sound and safe: sharp-shod when necessary.

Wagens and Automobiles: No broken parts; adequate brake; axles greased; laprobes well brushed; footwarmers when needed; uphelstery intact; painted and washed as necessary.

Harness: Sound: ciled and washed as necessary. Saddles and Bridles: Sound, especially as to cinches X - Solicity Marness: Sound; oiled and washed as necessary Saddles and Bridles: Sound, especially as to Saddles and Bridles: Sound, especially as to requires of Juri, saddlestrings complete; oiled and washed as necessary. Aus to the used for this perper, Trips. Rates. and Office Hours. (12) The permittee must submit to the officer and stirrup leathers; reins tied or buckled or at least 6' long;

(12) The permittee must submit to the officer in charge for approval by him, a written statement of his office hours, regular scheduled trips, and rates to be charged therefor, which when approved must be adhered to, and may not be modified except with the written approval of the efficer in charge.

The Forest Service will establish and make public a schedule of maximum rates, and no rate for any trip will be approved which is higher than the established maximum. The Forest Service reserves the right to raise the maximum rate for any or all trips at any time. but will not lower any such rate except after 30 days public notice in advance of the date when the next payment is due, in accordance with clause (1).

Maximum rates will be modified only to meet changes in operating costs.

The following maximum rates are established until modified in accordance with the above:

6	Round Trip to	Maximum Rate Per Person	Distance One Way	By
	Hermit Rest	\$3.00	8 miles	Wagon
5	Grandview Peint	4.00	14 "	Automobile
in	Desert View (1 day)	10.00	32 "	**
	Bright Angel Trail to River	5.00	72 "	Saddle
	" " " Plateau		5 "	W
	Hepi Point	1.50	23 *	Wagon

Sanitation and Care of Premises

(13) The permittee must observe all sanitary laws and regulations applicable to the premises, shall keep the premises in a neat and orderly condition, and shall dispose of all sewage, garbage, and other refuse as required by the officer in charge.

(4) The charge for this use (Clause 1) may be readjusted whenever necessary to place this permit on a basis consistent with the charge to other permittees for like privileges.

Improvement and Construction Work

(5) Construction work under this permit shall begin within one month and be completed within three months from the date of this permit.

(6) The location, plans, and specifications of all improvements must be in substantial accord with the application on which the permit is issued and must be approved by the officer in charge in advance of any construction. All improvements must be maintained in a manner satisfactory to the officer in charge.

(7) Upon the abandonment, termination, or revocation of this permit, and in the absence of an agreement to the centrary, the permittee, if all the rental charges due the Government have been paid, may, within a reasonable period to be determined by the issuing officer, remove all structures which have been placed on the premises by him, except where the material was furmished by the Perest Service, but upon failure to remove the structures within that period they shall become the property of the United States. In the event the improvements are removed after the termination or during the life of this permit, the permittee shall place the truct in as nearly as possible its natural condition.

Equipment and Service.

(8) This permit contemplates the use of the following transportation equipment:

(14) The permittee shall comply with all applicable laws 7/28/17 · 1000 and with all laws, rules and regulations covering National Forests including those of special application to the Grand Canyon.

(15) The permittee must temporarily discontinue the use of roads in process of repair, when notified to do so by the Forest Officer in charge.

(16) The permittee shall pay the United States for any damage resulting from this use.

(17) No National Forest timber may be out or destroyed with out first obtaining a permit from the officer in charge.

(18) The permittee shall take all reasonable precaution to prevent and suppress forest fires.

(19) This permit is subject to all valid claims.

(20) The permittee shall provide, whenever requested by the forest officers, a way across the land covered by this permit for the free ingress or egress of forest officers.

(21) This permit may be transferred, subject to such conditions as may be imposed at the time of transfer. It shall terminate upon breach of any of the conditions herein or at the discretion of the. District Forester or the Forester.

(22) Should Congress pass legislation transferring jurisdiction ever the Grand Canyon from the Department of Agriculture to the Department of the Interior, this permit automatically expires on the date said transfer becomes effective.

Par. 24. Relation to Proposed National Park.

This plan in no wise conflicts with the project of making the Grand Canyon a National Park. The plan contemplates the issuance of no term permits, and the automatic expiration of all terminable permits is provided for in Permit Clause 22, Par. 25.

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Sample Soliciting Permit for Permittees using Government Land

In connection with your livery permit effective 1917 you are herewith granted permission to Solicit livery trade authorized by such permit, your soliciting to be conducted in a quiet and orderly manner without the use of megaphone or other instrument of noise and free from riotous or boisterous conduct or other objectionable actions.

It is one of the conditions of this permit that it does not apply to any area within the Grand Canyon or within 100 feet from the rim of said Canyon nor does it apply to any area held under special use permit by any other permittee unless permission in writing is first secured from said permittee and filed in this office. It is also one of the conditions of this permit that it is issued subject to all valid claims. However, permission to solicit secured from the owner of a valid unpatented claim will not be recognized as authorizing soliciting in the Canyon or within 100 feet from the Rim. The violation of any of the terms of this permit will be considered as just and proper grounds for the revocation of said permit. This permit automatically terminates should the livery permit for any cause terminate or be cancelled.

Forest Officer

I accept the above permit under the conditions stated therein.

Clause 2 Livery Permit(Sample) as amended for Santa Fe Land & Improvement Company Case.

(2) The permittee hereby agrees to maintain the Hermit Trail and to annually contribute his proportionate share, as determined by the Forest Officer in charge, of the maintenance of the Hermit Rim, Grand View, Yavapai Point and Desert View roads, with the understanding that other permittees using these roads for commercial purposes will be required to similarly contribute to their maintenance in proportion to the size of the permitted operations. The permittees contribution for the period ending December 31, 1918, amounts(to One Thousand Two Hundred and Forty Dollars (\$1,240.00)) and notice will be given annually in advance of the amount of future contribution to the road maintenance work. The permittees contribution must be evidenced at the close of each calendar year by a certified statement of road expenditures in the amount set for the closing period, but if for any reason this showing is unsatisfactory or the maintenance of the roads inadequate for the sums expended or the improvements or repairs improperly distributed the permittee's road maintenance contribution may. for any future payment period be required to be paid in advance to the above designated United States Depository as a cash contribution to the specific co-operative fund as provided under the Act of June 30, 1914.

The Secretary of Agriculture's letter of July 28, 1917 in the W. W. Bass Livery 4/29/16 case modifies soliciting permit by substituting the following for corresponding portion sample permit:-

> "It is one of the conditions of this permit that the permittee shall not within the Grand Canyon or within 100 feet from the Rim of said canyon accost tourists or other persons either verbally or by giving out printed matter for the purpose of soliciting livery business".

This was occasioned by Bass' appeal objecting to the phraseology of the original permit which he thought would interfere with his acceptance of business that came to him unsolicited while he might happen to be in a prescribed zone although such was never intended. As now worded there can be no misunderstanding on the subject.

-6^a-(Inserted)

APFREDIX

Para- graph	
HISTORY OF DEVELOPMENT & USE	
25-A Building of the Railroad	
26-A Number of Visitors by Years(Graphic Chart)	
27-A The National Park Movement	

EXISTING BUSINESS ENTERPRISES

Bailroad Interests
28-A Station Grounds
29-A Bright Angel Hotel
30-A El Tovar Hotel
31-4 Hopi House
32-A Loading Corrals
33-A R. R. Right of Way
34-2 Power Flant
35-A The Lookout
36-A Hermit Creek Camp
37-A Hermit Rest
38-A Oarage
39-A Transportation Department
Other Permittees and Operators

40-A Verkamp's Curio Store
41-A Holb Bros. Studio
42-A Bass Livery and Camp
43-4 Cameron Livery
44-A PepintsBooth
45-A Grand View
46-A Coconino County House

BUSINESS PRACTICE

47-A.- - - Livery Rates. Tabulated
48-A.- - - Objectionable Practices by Liverymen
49-A.- - - Standards of Livery Equipment and Practice.

Farapraph

	EX	ISTING ROADS & TRAILS & RIM DEVELOPMENTS
50-A	 	Bright Angel Trail
51-A	 	Hermit Him Road
52-A	 	Grandview noad and Desert View Road
53-A	 	Hørmit Creek Trail
54-4	 	Tonto Trail
55-A	 	Rim Developments

PROSPECTIVE DEVILOPMENTS

56-A Community Buildings
Commercial Projects
57-4 Indian Gardens
56-A Housekeeping Cottages
59-A General Store
60-4 Desort View
61-A Livery Offices
Projects for Convenience of Fublic
61-A Rim Perks, S. & S. of Terminal, and at Verkamp's.
63-A
64-A Yavapai Trail

GEMERAL ADMINISTRATIVE PROBLEMS

65-1	-	-	-	-	Water Supply
66-A	-	-	-	-	Senitation
67-A	-	-	-	-	Public Safety
68-A	-	-	-	-	Fublic Camping

DETAILS OF ADMINISTRATIVE PLAN

69-A.- - - - Administrative Force 70-A.- - - - Relation to Fire Plan Handling Uses

71-A.- - - - - - - - Issuance of Permits. List of Existing Permits.

MISCELLANEOUS

80-A.- - - - - Game and Fish Plan 81-A.- - - - - Proposed Revision of Place Names

MAPS AND EXHIBITS

HISTORY OF DEVELOPMENT AND USE.

Par. 25.-4. Building of the Railroad.

The Grand Canyon Bailway is a separate corporation from the A. T. & S. F. It was originally built to reach some mining properties south of Grand Canyon, was completed September 20, 1900, and was later purchased at Sheriff's Sale by the present corporation.

Prior to the completion of the railway, visitors were handled by stage.

Par. 26-A. Humber of Visitors by Years.

The following curve is based on ticket sales of the Grand Canyon Hailway. It does not include the overland motor traffic which has grown very rapidly in recent years. (See Par. 68-A. and ohart.)

Par. 27-A. The Mational Park Movement.

W. J. Bass has displayed in his livery office a U.S.C.S. map of Grand Canyon, compiled in 1911, indicating boundaries of a proposed National Park.

The Interior Department "National Parks Folio" of 1916 includes the Grand Canyon.

A growing movement in favor of a Grand Canyon Hational Park has been noticable during the past year, lead by George Horace Lorimer of the Saturday Evening Post. Mr. Lorimer is a frequent visitor and is advocating also the building of a country home for The Press Club on the rim of the Canyon.

The following are examples of press comment: "BALLYHOOING IN THE THEPLE," Editorial, Saturday Post, 11/4/16. "JOHN JONES - GOAT", Van Loan, Saturday Post 6/3/16. EDITORIAL, Chicago Tribune, quoted by Tuoson Citizen, 9/6/16.

The following appeared on the Breakfast Menu at 21 Towar, Nov. 17:

"Some day we shall have a Grand Canyon National Park fifty by one hundred and fifty miles in extent, every mile of it full of grandeur and wonder." - Emerson Hough. Room may be secured at the Bright Angel Hotel for \$1.00 per day or \$1.50 per day for two persons. Meals are served a la carte at the lunch counter.

Par. 30-A. El Tovar Hotel.

El Tovar is operated on the American plan, prices ranging from \$5.00 per day up to \$20.00 for special accommodations. It hus grown to be a popular mosting place for newspaper mon. Several clubs have regular scheduled meetings.

Par. 31-A. Hopi House.

There is some question as to whether the business conducted by the Hopi House is the proper use of the Station Grounds without permit. It should be covered by charge permit, if permit is found to be needed. (D L has under consideration now.)

The Hopi House is a stone structure resembling one of the Taos Indian pueblos and is larger than any of the Hopi houses on the Reservation. It was built in 1905 and serves as ourio shop for Fred Harvey. Rugs, jewelry, paintings and almost every sort of ourie or relie to be found in the Southwest and Mexico are for sule. There are reproductions of Navajo and Hopi Indian living quarters on the premises. At one place there is a sand painting in the floor, covered sith glass. Indian weavers and silver smiths may be seen at work. At 8:00 o'clock each evening there is a free Indian dance. The mensger of the Hopi House, on account of his having Indians in his employ, keeps a small commissary from which to furnish supplies in trade or by purchase.

Par. 32-4. Loading Corrals.

Hear the Hopi House is a corral in which trail stock is held while being loaded for trail trips. There is also another corral between the Bright Angel Hotel and the Lookout, used for loading Bright Angel patrons. Both of these are doubtful uses of the Station Grounds and may have to be covered by permit. (Under consideration by D L now.)

It is quite necessary to have these loading correls near both hotels.

The attitude of the Forest Service on the Park question is reflected in the following quotation from the Secretary of Agriculture's Annual Report of December 8, 1916:

> "Parks are being advocated where the land should stay in the Forests, while elsewhere areas which should be made Parks continue to be administered as Forests - for example, the Grand Canyon of the Colorado."

The most recent development in the direction of National Park legislation was the introduction in Congress on January 24, 17 of H.R. \$20447 by Congressman Hayden of Arizona. This bill is entitled "A Bill to Establish the Grand Canyon National Park in the State of Arizona," and would place the Grand Canyon under the jurisdiction of the Park Service of the Department of the Interior.

EXISTING BUS INESS ENTERPRISES.

Railroad Interests

Per. 28-A. Station Grounds.

An area for station grounds was secured in connection with the railroad right of way. The Depot is partly on the right of way, and partly on the station grounds. El Towar and the Bright Angel hotel, together with the Hopi House, Lookout, Laundry, corrals and Havejo hogans, are located on this area.

Par. 29-A. Bright Angel Hotel.

Par. 33-A. R.R. Right of Way.

A 200 ft. Right of Way extends from Williams to the Grand Canyon terminal, and includes the switching Y. This ground has been used for unsightly buildings and box-car quarters for section hands, which are in plain sight from El Towar. The Company officials have agreed to clean up and remove the structures to more 5 on the two tracts already held under permit by them.

Far. 34-A. Fower Plant.

The power plant which supplies steam for heating all of the Company buildings as well as both light and power, is located hear the depot, partly on right of way and partly on the station grounds. The location, design, and color of the structure are unfortunate. Flans are now under way to build a new power plant which is to be in harmony with the other Company buildings. It will be larger than the present one and further from the hotels, on the south side of the tracks in Zone 7. The right of way is not sufficiently wide to furnish a site for the entire building, and part of it must rest upon Forest land, for which parmit should issue.

Par. 35-A. The Lookout.

The Lookout, located on the rim immediately east of the

bead of Bright Angel Trail, was designed by and constructed under the supervision of Miss Mary E. J. Colter of the Fred Harvey conoern. It is of stone and seems a part of the rim itself. There are photographs, enlargements, colored folios, books and post cards for sale. There are none of the ordinary suries, and no acds fountain, as one might expect to find in an institution so popularly located. On the balacony overhanging the Canyon is a double barrel telescope of 73 power through which the Canyon and trail parties are observed by fourists almost continuously. The telescope is a loo used on clear evenings to observe the planets. There are three public writing desks in the main room. Approximately 875 feet of trail has been developed along the face of the cliff below the balcony at a cost of approximetely \$300.00 to the Company. The balcony and this trail, toge ther with unique rests and stone seate are open to the public.

A portion of the point on which the Lookout is located is not covered by the station grounds tract, and accordingly a Forest Service permit was issued, covering the telescope balcony, seats, rests and the trail to the lower cliff.

Par. 36-A. Hermit Creek Camp.

Hermit Greek Camp is located & mile from Hermit Greek eight miles by trail below the Hermit Rost House. It is connected by a telephone line string on iron posts that has been repaired but once since it was built in 1913. There are fourteen buildings in the Camp group, with a capacity of thirty guests. The average is cald to be as low as three or four guests per day. All of the supplies have to be handled on pack mules. Every tourist party which makes the trip between March and October has one mule loaded with ice. There are stables sufficient to shelter forty mules. There is practically no grass and all of the stock feed must be packed. The average price of hay per bale is \$6.25 laid down at Hermit Camp.

The original idea was to build the camp on Hermit Greek.

Par. 38-A. Garage.

A garage has been built under permit on the area immediately weet of the depot. It is a substantial stone structure entirely in heeping with the surroundings. The Company owns six Pierce arrow, one Packard, and two smaller cars, together with trucks for hauling water and supplies. These cars are kept in almost faultless condition all the time. Blankets, rugs, and all upholstery are kept clean. The cars are washed or dusted with compressed air after every trip.

The garage is equipped and operated not only for taking core of Company cars, but also those belonging to tourists. It has room for storage for at least ten additional cars. Ordinary supplies and appurtenances are on hand and for sale to tourists. A high class mechanic is available for custom sork. The following rates are posted:

Storage charge for 24 hours	.50
Machinist's time	1.00
Owner of car may use toold, benches and vise for doing his own repair work at a charge of	.50
(Owner may do his own repair work in the garage free of charge if he uses his own tools and storage is poid.)	
Tire ohange	.50
Punctures and blowouts25 to	.75
Valve stems 50, .60.	.75
Gesoline per gallon	.38
Whiching	2.00
Folish, additional	.50

The mechanic is paid \$15..00 per month with free board, quarters, light, heat and water. The \$1.00 per hour charge to the public for his time includes oil, gasolene or kerosene and waste used for cleaning parts. If this garage continues to be run on its present basis, the probabilities are that competition is not likely until there is much more business than at present.

Far. 39-A. Transportation Department.

This plan was defeated on account of placer claim locations. All water is packed from the Creek, a Cameron injunction having hitherto prevented the laying of a pipe line of There are 25 acres in the area under permit.

Par. 37-4. Hermit Rest Louse.

Hermit Rest House is located at the end of the Hermit Rim Road and at the head of Hermit Creek Trail. It was built by the Company during 1914. The Company claims it cost \$13,000. The permit covers 25 acres. In addition to the Rest House there are correls, and warehouses for storing supplies intended to be packed to the camp below. The Company does not consider this as a commercial enterprise, but as an accommodation to the public.

The Rest House was designed by Hiss Colter and constructed under her supervision. Its effect is admirable. It is furnished with interesting curios and Indian goods which are not for sale. A log fire is always burning in the magnificent fireplace. Tourists patronizing the Company's transportation department are served beef tes and wafers free of charge. A charge of 50 cents is made to others. This charge is said to be made simply as a matter of regulation. The Company has 205 head of driving, trail and work stock, 23 passenger wagens, and plenty of saddles and harness. During the rush season two and sometimes three teams are used for each wagen and driver. A sixteen mile trip to Hermit Rest House is considered a shift for one team, while a driver with the same wagen often mokes it both morning and afternoon.

Harnoss and wagons are washed after each trip. Wagons are painted three times a year and are kept in spotless condition. The quarters for the stock are in neat and sanitary condition, actually being washed despite the high cost of water.

The stables and corrais are located on ground savered by a special use permit.

This department carries equipment in re-Ainess for hendling tourists either on the trails or roads any time of year. It is also in readiness to handle excursion parties on abort notice. It is often confronted with handling parties who had previously becked with independent liverymen who failed to furnish accommodation at the appointed hour.

(For list of Company cars see lar. 36-A.)

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Par. 40-A. Verkamp Curio Store.

In 1905, or about the same time the Hopi House was opened, J. G. Verkamp of Flagstaff, received a permit for one quarter of an acre on which to construct a curio shop. This area was bounded by the station grounds on the west and is on the Buttingki Mining Claim, with the consent of the locator. The building probably cost \$10,000.00 and the stock of curios, rugs, Indian goods, pictures, etc., would probably invoice an equal sum. His store is about 100 ft. from the rim.

Pending the Forester's decision as to limits of Zone 2 and the kind of uses which may be allowed permits therein, additional investment in improvements in this case should be allowed only at the owner's risk. In the event that Verkamp's present tar Verka location is decided to be permanently satisfactory, the following un improvements should be allowed:

Rim Development. Mr. Verkamp is anxious to have his per-ugh mit extended north to the rim, so that he may build trails, seats, have to changed. walks and range-finders. He claims that his breation is isolated and that it is necessary to develop the rim so as to attract tourists his way. They now usually walk west. The Company has been given a similar use permit for rim developments; and since the Forest Service cannot finance them, Mr. Verkamp's application should be granted. This additional land should be covered by a separate free permit allowing only rim developments.

Painting. The store is at present not of an appropriate color. It should be repainted.

man's letter by Dr. Waugh as to appropriateness from/esthetic standpoint, and if declared objectionable, Mr. Verkamp should be requested to remove it.

Par. 41-A. Kolb Brothers Studio.

Emory and Ellsworth Kolb came to the Grand Canyon about the time the railroad was completed. Ellsworth Kolb seems to have been in the employ of the Company at that time. They took up photography as a livelihood and have performed some of the most daring feats that have been attempted in the exploration of the

a Forest Service permit.

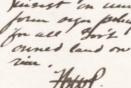
During 1914 the original building was remodeled. During 1915 they installed their own electric light plant and during April, 1916 added a water heating system.

Kolb Brothers were asked for information as to the amount of their investment, but it was not furnished. Their improvements probably cost \$5,000.00 or more, and have a probable present valuation of \$3,000.00.

An illustrated lecture of the trip through the Grand Canyon Sa Mu Sherman is given daily at 5:00 P.M., admission 50 cents. Colored folios, latter 5/14/17 9+ 10, - Where photographs, enlargements, postal cards, Indian rugs and a few paintmatter left dacy duided ings are on sale. On Tuesday and Saturday evenings Vitagraph and me 4 breter curios Paramount pictures are shown. Dances for the hotel help are given hould molected on Wednesday nights. They complain of having to close their soda allowed to fountain on account of the Pepin stand which was recently opened. In unprove with knould they now desire to install pool tables. 3/24/17 1200 ouldge They now desire to install pool tables. that location The Kolb building is unfortunate both as to design and location. It does not belong on the rim. If the building were of a fitting architectural design and conducted as one would expect to find a studio, the location might be overlooked, at least the life of the existing improvements. However, the continuance of: (1) commercial enterprise at the exact head of Bright Angel Trail. (2) building entirely out of harmony with the surroundings, and .(3) entertainments of mixed character, cannot be indefinitely allowed.

In considering the action to be taken, it should be kept in mind that Kolb Brothers were given to understand that had their "Independent Sign." This electric sign will be passed on See Mer Shen - application of 1912 stood, a permit would have been granted. Even Studig pg.o. at a recent date they have been given to understand that permit would issue as soon as the litigation with respect to the Cape Horn claim was terminated.

> On November 8, 1916, at 5:00 P.M., Emory Kolb gave an illustrated lecture to an audience of 12 persons. Advantage was taken of every opportunity to enlarge on the obstacles that had allegedly been placed in the way of Kolb Brothers by the Company and the Government. At least three times it was intimated that the Forest Service had permitted the large corporation to impose upon them - that it allowed unfair competition and the sale of unreliable curios. This



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Grand Canyon. No one seems to question the reliability and genuineness of their work. They built their first office in 1903 on the site of their present structure. For years they confined themselves to photography and the sale of their pictures.

The studio was on land located as a claim by Ralph Cameron, and not until 1912 and after they had made their trip through the Canyon and decided to show motion pictures of their journey did they make application for a Forest Service permit. The rejection of this application seems to have been due to a misunderstanding. Emory Kolb claims that they were referred to as "Kolb Brothers of Los Angeles", although their communication seems to have originated at Grand Canyon and was presented to the Washington Office by Delegate to Congress Ralph Cameron, who at that time seems to have favored their securing a permit. The application was rejected because it involved a picture show, it evidently not being understood that Canyon pictures were to be used. Later another application was made in which their identity and purpose were clearly shown. Permit would undoubtedly have issued had not the application been recalled on account of Ralph Cameron's threat to eject them from claim, should they accept

last statement was doubtless aimed at Pepin's allegedly spurious bottles of sand. Even the Geological Survey was criticised for errors in maps.

At the lecture Mr. Kolb referred to their Grand Canyon book as having a foreword by Owen Wister. It is understood that Mr. Wister wrote this foreword before he had visited Grand Canyon. Later he found that he had been misinformed and withdrew it. It does not appear in the second edition, but this was not mentioned in Mr. Kolb's lecture.

It is said that the Kolbs formerly solicited in railroad trains and that this was stopped because of abusive conduct. It is claimed that Kolb was allowed to deliver his wares at the railroad station until his abusive conduct toward employees made it impossible.

There are doubtless two good sides to this question. It should be noted, however, that the Fred Harvey Company which he accuses of trying to grasp all the curio and photography business, has not entered the field of photographing tourists' parties on the trail. This is one of Kolb Brothers' principal sources of income. Exposures are made as the parties leave in the morning and prints are ready when they return. The guides who are in the employ of the Company are in-

structed and do stop at any point on the trail indicated by Kolb Brothers.

An application dated November 5, 1916, has now been reseived from Kolb Brothers for a permit for the site now occupied as well as the land used by the Pepin booth, the site of the Cameron livery corrals, and the small tract in the Indian Gardens used for washing prints. They also apply to install pool tables.

The following action should be taken in this case:

(a) Issue a terminable permit authorizing occupancy of preaent site actually used, for present uses only.

(b) Give friendly verbal notice, followed by letter of confirmation, explaining that on account of pending park legislation and non-conformity of their present location and improvements with this plan, it may become necessary in the future to require removal of present improvements and to offer them a new location in the proper Zone.

(c) On account of the above conditions, all further investments in construction or maintenance on the present site must be made at the owner's risk.

Par. 42-A. Base Livery and Camp.

Them W. W. Bass started the livery business in 1884, when he Letter 3/14/17 carried tourists from Williams to Bass Camp, 25 miles west of Grand Canyon terminal. He claims to have built a 68-mile road to his camp flan and 30 miles of trail on both sides of the river at a cost of \$15,000.00 and a ferry consisting of five cables with a capacity of 2,000 pounds, costing \$2.500.00. This tramway connects with a trail on the north side which passes by the Bass mining claims. There are accommodations for 20 people, but the camp is little used. Outbuildings and cisterns at Bass Camp are claimed to have cost \$3,000.00; outbuildings, corrals, etc. at Bass Station on the railroad \$2,500.00. Total \$23,000.00. The roads he built are little used.

In an effort to get more business, Mr. Bass moved his headquarters to Grand Canyon terminal. He constructed a 16-room house, which he claims cost \$2,500; an automobile road from Grand Canyon Station to Bass Camp. \$1500. He has ten wagons which cost \$7500, two automobiles which cost \$2,250, ten sets of harness, fifteen saddles

Mr. Bass handled trail parties up until three years ago, he found that it did not pay and has since disposed of it when trail stock. His automobiles are not being operated this winhis ter. He is keeping up only two wagons and teams. He is not advertising any of the longer trips, but combining a short east and west trip for \$2.50.

The Company employs a watchman to whom Mr. Bass takes objection. He claims that the watchman bothers him and interferes with his See by Hay the ap "Affender natural movements. Both Mr. Bass and the Company officials state that permit issued. the trouble has arisen from what was originally a joke. The Company Eurory Koll Officials have stated that they will move the watchman if the trouble S/11/17 mlatter continues.

lis determinate terre line + On the other hand. Mr. Bass seems not entirely guiltless of Matur Mallomd trouble-making. Emory Kolb claims that in 1910 Mr. Bass pulled a six-To operate un dested until Status shooter on him and was prevented from using it only through the efforts cleans that fermit can of Niles Cameron. He has insulted the American flag over the Forest cases covered Service office in the presence of Ranger Grefe. Cameron's agent and Studio operations Bass's agent had a fight in front of Verkamp's store (See affidavit in Cameron Occupancy Trespass of May 8, 1916.)

> It is interesting to note that Mr. Bass feels that since the Company has purchased worthless mining claims from Mr. Cameron it should purchase from him all of his improvements and livery business together with stock and equipment, so that he may retire from this field of competition.

In 1913 Mr. Bass made application and was granted a liver office between the Bright Angel Hotel and Kolb Brothers Studio on Refund on ferme the Cape Horn claim, but was enjoined by Cameron from using the land, Silve made, Cancoll and this permit should be revoked as soon as possible without affecth chored ing pending litigation. For a time Mr. Bass was allowed to use the after legal manyo in appeal to Forest Service office for booking passengers. It is claimed that he U.S. Supreme Con placed in his advertising literature a statement to the effect that rate. Do lufo his bookings would be made at the office of the Forest Service. theof. Later he was allowed to construct a tent office on the slope between the Company garage and Verkamp's store. This office is being occupied and used at present. He expects to be allowed to occupy the land for which he was given a permit on the Cape Horn Lode in 1913. This done. /Under the Zone system here outlined this will not be possible, but

and twelve horses which cost \$2.425; office \$100, total \$12,275. This should probably be discounted for depreciation. Mr. Bass is endeavoring to sell this place, and it is understood that George Horace Lorimer has under consideration the purchase of it for a country home.

The water and feed problem has been serious for Mr. Bass. He has a special use permit for residence, barns and corrals along the railway tracks below the terminal. His tanks collect surface water and also drainage from the Company's septic tank, and this is used by his stock for approximately one-half of the year. For the remainder of the year he must buy water at \$50.00 a car of 10,000 gallons. At present he is paying \$14.00 per ton for hay f.o.b. Phoenix.

Mr. Bass claims to have cleared \$21,000.00 during the abnormal year of 1915, but has apparently spent this. He claims to have lost \$1500.00 for the season 1916. Some of this he attributes to litigation.

Mr. Bass feels that the Forest Service has permitted unfair competition by allowing other livery outfits to enter the field without giving bonds guaranteeing standard equipment. He claims that unsafe animals and equipment have been used both on trails and roads. He asks that all livery permittees be required to furnish two bonds, one for \$5.000.00 to insure compliance with the terms of the permit, and a second indemnity bond of \$5,000.00 to cover possible accidents to patrons.

gim new in view of his undisputed equities he should be offered the choice run hou of livery office sites. Soluty hemit fair Lupliving 14 Bpar. 43-A. Cameron Livery.

Niles and Bert Cameron, brothers of Ralph Cameron, have operated a livery business with headquarters on the Cape Horn Lode claim. Their corrals are on the rim overhanging Bright Angel Trail. Occasionally manure has been thrown over the rim. There are now manure piles on the rim itself. They have no good stables, and the horses are often fed in wagon boxes and tied to trees.

Cameron operated one Studebaker automobile last summer, which is now in storage, but their advertisements still stand unchanged. Solicitors have announced their trips by megaphone in front of Verkamp's store and have even loaded their patrons at that point. This has been extremely objectionable to Verkamp and is one of the reasons why he makes application for the extension of his line to the rim.

Like Mr. Bass, the Camerons have used roads constructed and maintained by the Company. This fact in itself might not be so important, but they have shown an unfortunate spirit by leaving teams standing in front of the Company loading blocks so that they could not be used by the Company drivers. Due to their operat-

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Special Soliciting Permit to Kolb Brothers.

You are hereby granted permission to solicit photographic trade and patronage for a lecture and moving picture show describing the Grand Canyon, your soliciting to be conducted in a quiet and orderly manner without the use of megaphone or other instrument of noise and free from riotous or boisterous conduct or other objectionable actions.

It is one of the conditions of this permit that it is not intended either to authorize or forbid the studio, lecture and moving picture business as now carried on by said Kolb Brothers on the area now occupied by them. This permit, however, does not authorize soliciting upon any other area within the grand canyon or within 100 feet from the Rim of said Canyon, nor does it apply to any other area held under special use permit by any other permittee unless permission in writing is first secured from said permittee and filed in this office. It is also one of the conditions of this permit that it is issued subject to all valid claims. However, permission to solicit secured from the owner of a valid unpatented claim will not be recognized as authorizing soliciting within the Canyon or within 100 feet from the rim.

The violation of any of the terms of this permit will be considered as just and proper grounds for the revocation of said permit.

This permit will automatically terminate upon the termination of litigation involving the area occupied by the permittee, at which time the permit will be readjusted.

т.	Earl	Wy]	Lder	
		In	Charge	

I accept the above permit under the conditions stated therein.

(Inserted)

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ing without permit it has so far been difficult to force compliance with the traffic rules and other regulations. The status of the Cameron interests will probably soon be changed by culmination of legal proceedings to enjoin them from occupying or using Enjoints from unfernetter built on a very desirable location along the railroad opposite occupying the location along the railroad opposite occupying or using the location along the railroad opposite occupying the location along the railroad opposite occupying the location along the railroad opposite occupying or using the location along the railroad opposite occupying the location along the location along the location along the location along the

Par. 44-A. Pepin's Booth.

S. D. Pepin, who styles himself a geologist, was at one time in the employ of Ralph Cameron doing assessment work and a appearing as a witness at claims hearings. He has built a booth on the Cape Horn Lode at the head of Bright Angel Trail almost opposite the Kolb Brothers' Studio. He has for sale mineral specimens which he claims are from the Grand Canyon; but which, are said to be obtained elsewhere.

Pepin has for sale bottles of sand showing the strata of the Canyon walls. Mr. Emory Kolb states that Mr. Pepin admitted to him that the sands are artificially colored. Pepin is the author of a booklet "Origin of the Grand Canyon". It is claimed that practically all of the data is taken from Bulletin 549 by Noble and Lee. Pepin's booklet sells for 50 cents and probably costs from 3 to 5 cents. He sells postal cards and soft drinks. It is impossible for one to travel the Bright Angel Trail without seeing his cheap unsightly signs. The building which he occupies is of inpainted and unstained pine lumber, and is out of place both as to design and location.

The Cape Horn legal proceedings will, it is anticipated, Eufound Cont this case. dispose of his case.

Par. 45-A. Grand View.

P. D. Berry perfected title to a 160 acre homestead at Grand View and has sold it to Wm. Randolph Hearst. It seems that Mr. Hearst bought this land with the idea of building a private clubhouse. Mr. Berry rents the property and operates a hotel which occasionally accommodates overland tourists. The hotel has a connection on on the Forest Service telephone line.

Angel Trail and employs a resident caretaker for maintenance work and collecting tolls. This caretaker needed a residence and a special use permit was issued free to cover it. It is

an area under permit to the Company. The only real reason for continuing this permit free is found in suggestions for modifying the entire trail status situation (Par. 59-A). Should nothing come of this, a charge of \$20.00 should be made.

BUSINESS PRACTICE

Par. 47-A. Livery Rates, Tabulated. (As now advertised)

Round Trip To	T	stance miles one way)	Cameron	Bass.	Company
Hermit Rim		8-	\$2.50		\$3.00
Yavapai Pt. & Hermit		?		\$2.50	
Mojave Point		4	\$1.50		\$2.00
Hopi Point		21/2	\$1.00		\$1.50 A.M \$1.00 P.M
Hopi Pt. & Sunset View		3		¢1.00	¥
Sunset View		3			\$1.50
Yavapai Pt.		2 <u>1</u> 2	\$1.00		
Yavapai and Grandeur		?		\$1.00	\$1.00
Grandeur Point		3	\$1.00		
Grand View Point	14	(auto)	\$3.50	\$3.50	\$4.00
Bass Camp	25	(auto)		\$5.00	•
Desert View	32	(auto)		\$10.00	\$10.00
Dripping Springs	?	(trail)			\$4.00
Hermit Camp	16	(overnig	办t)		\$15.00
Loop Trail	38	2 days (around)			\$22.00
Bright Angel Trail		7.5			\$5.00
Plateau		5			₹4 .00

Par. 48-A. Objectionable Practices by Liverymen.

Megaphone Soliciting: The following editorial appear ed in the Saturday Evening Post, Nov. 4, 1916. The facts are

The Last Chance millsite at Grand View has been patented. The Grand View Millsite, which is probably valid, and is held by the Canyon Copper Company, if which J. H. Page of Phoenix is president. controls Grand View point and the best view of the Canyon in that vicinity.

The Company constructed a bridge across a crevice so that sightseers might safely pass to the outermost point to view the Canyon. The owners of the millsite have prevented the Company from maintaining this bridge. It is now unsafe and should be removed or repaired.

Efforts have been made to keep livery wagons and sutomobiles from driving across certain mining locations to the principal vantage point. However no recent trouble has been reported.

The road to Grand View is not a public road and being on the National Monument, no easement under Sec. 2477 R.S. could be acquired. (See Par. 17.)

Par. 46-A. Coconino County House.

The County of Coconino claims jurisdiction to the Bright

as stated.

"BALLYHOOING IN THE TEMPLE"

"No other experience in that line is quite comparable to visiting the Grand Canyon of the Colorado. Ramantic imagination has conceived men suddenly transported to the moon or to Mars. Visiting the Canon is like that. There may be other scenes that match the Canon in grandeur and strangeness, but they are reached only by effort and through stages which prepare one for them.

To reach the Canon you go to bed in the familiar Pullman. In early morning you step out of that commonplace vehicle, and the vast, fantastic gorge lies before you - an aspect of the earth as unlike all other aspects that it is unearthly. It is like being transported overnight to a different planet. The stupendous nature of the scene and the abruptness with which it is disclosed makes a unique impression which no one can ever forget. It is like turning a street corner and suddenly finding yourself in the workshop where the planets were made.

But latterly they have contrived a little overture to this great and rare experience. Hawkers for rival bus lines stand outside your sleeper in the dawn at the rim of the Canon and wake you up by bawling through megaphones the merits of theirrespective vehicles. This raucous chorus is your introduction to the greatest wonder Nature has wrought on this continent - or perhaps in the World.

The Government might well permit a decent competition between the railroad and the so-called "Independents" but it should not permit this indecency. Beginning a church

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service with a free-for-all fight for the front seats would be no more indecent that disclosing the Grand Canyon to the noise of this leather-lunged yaup for trade. The Government, as custodian of the Canon and of the National Parks, ought to insist upon a decent semblance of respect for those sublime monifestations of Nature."

Adherence to Schedules and Rates: The Company advertises standard rates which are in effect year-long. Bookings may be made at the hotel desks. Bass advertises trips and rates, but is often unprepared to make all the trips advertised. Formerly he advertised that bookings could be made at Verkamp's Independent Store. Some misunderstanding put an end to that arrangement. Cameron's Livery advertises bookings at Kolb Brothers' Studio. This likewise seems with to have given place to megaphone soliciting. ~ MMMM corr by MM MA

At the present time both the Base and Gameron liveries are cutting rates by offering cast and west trips - east in the morning and west in the afternoon - at a combined rate of \$2.50. These trips are not covered in the regular schedules, and after the tourist takes the trip he learns that he reached neither Grand View to the east nor Hermit Best to the west, as he thought, but only Yawapai Point and Mojave Point. An official map showing the location of these points would aid in emabling the tourist to make comparisons before booking.

The "independent" liverymen have no well-located offices, which probably to a degree accounts for the unregulated soliciting. With proper offices it would be easier to control soliciting.

Advertised trips are apparently not taken seriously by some liverymen. Houds are good for automobile travel until the winter storms, still the Bass and Cameron automobiles have not operated since early Fall. Company cars operate on schedule except when prevented by storms.

Liverymen often book patrons in the evening at a out of rate, later find passengers willing to pay more, and leave the div first party to find other accommodations.

Par. 49-A. Standards of Livery Equipment and Practice.

During 1915, of the 100,000 visitors, over 20,000 took

ness, except to see that they are in good repair. The Company has wagons which probably cost \$400.00 apiece, while the Bass and Cameron outfits operate wagons which cost little more than half that sum, but are nevertheless sufficiently strong and comfortable to handle tourists satisfactorily.

Both Bass and Cameron drivers leave their teams standing unattended at loading blocks along the rds drive, hitch a team to a tree along the roadside or in some cases drive the wagon off the road on to the points. All of these practices are unsafe, and are prohibited in the Traffic Regulation. (See Par. 22).

ROADS TRAILS AND RIN DEVELOPMENTS.

Par. 50-A. Bright Angel Trail.

It has not been deemed advisable to attempt to enter into a cooperative agreement allowing forest officers to use the trail free of toll in view of the unsettled status of the trail easement.

The Bright Angel Trail seems to have originally been an Indian trail, built and used by the Havasupais. It apparently derived its mame from the fact that it reaches the Colorado River at the mouth of Bright Angel Creek. The original location was by P. D. Berry in alleged compliance with the Arizona toll road laws. All Berry's rights were subsequently acquired by Comeron. There has been a large amount of litigation in the Territorial Courts, to which the United States has been a party, with respect to the validity of the original location, its transfer to Cameron, certain extensions of the franchise by Coconine County, and certain curative legislation passed by the Arizona Legislature. The Supreme Court of Arizons upheld Comeron's franchise, which finally expired some years ago, shen the trail passed to the county. For a few years thereafter Hiles Cameron as agent for the County continued to manage the trail and collect toll of \$1.00 for every animal which passed over it. At the present time the trail is operated and maintained by the County, which collects the same toll.

trail trips. It is safe to expect 30,000 visitors annually during the next three or four years, and at the same ratio at least 6,000 persons will take trail trips. Minety per cent of these trips will be taken during eight months of the year, which makes twentytwo persons per day to be handled on trails. This number requires three guides.

The Company allows a maximum of eight to ten persons for one guide. If there are more than five women in a party, two guides accompany it. Only mules are used at present. Occasionally horses are used, but mules and horses should not be worked in one party.

The mules are well broken, and any animal showing signs of becoming unruly is ridden over the trail by a guide before being entrusted to another tourist. Only the Company is operating trail parties at present. Much notoriety would follow a serious accident, and every possible precaution seems to be taken.

It is unnecessary to set a standard for wagons and har-

It is claimed that the 4olb Brothers Studio at the head of the trail is on the right of way, which is alleged to be 40 feet in width. Even so the essement certainly cannot cover cases of this sort. A 40-ffot right of way through the Indian Gardens would probably defeat the proposed plans made for that point.

Dave must built the transmay across the Colorado Hiver four miles above the lower end of Bright Angel Trail. It now belongs to Ex-Governor Wooley of Salt Lake City and is known as the Wooley Transay.

The trail up Bright Angel Creek on the north side is said to cross the channel eighty-three times. It is not well maintained and is used infrequently. Tourists who wish to cross to the north rim may do so by communication with Jim Owens, a guide who lives at the head of Bright Angel Creek, by telegrams to Kanab, Utah, or by Signal fires near 31 fowar. The manager of the Company's transportation department understands the smoke signals.

Parties leaving the rim in the morning lunch on the sand bars of the Colorado River. Lunch boxes are strewn over

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the shore and in the mouth of Fipe Creek. In 1915 the Porest Service installed a metal incinerator, but it was carried away by floods. The Company has furnished hitching racks in Pipe Creek Box, but these have been washed away. There remain two temporary and unsightly toilets well up on the side of the Box. Some arrangement for permanent toilets, shelters, hitching rooks and incinerators should be made. Toilets and racks should be placed further up Fipe Creek Canyon around the first bend so that they may be proteoted from the river floods.

During 1915 the Trail tolls amounted to over \$20,000. which greatly exceeded the cost of maintenance. The overseer has two laborers for maintenance, but the trail is in poor condition. It is not properly drained and is simply a ditch in many places. The location has been changed several times during the last ten years. It could doubtless be proven that the present location does not coincide with the original right of way.

There has been a great deal of litigation between the Santa Fe Railroad, Ralph Cameron and Coconino County as to the Trail. The County officials seem to have had the idea that if the trail were declared a public thoroughfare, the Company would immediately assume charge of it and continue the present toll charge.

One dollar per animal is entirely too high a toll oharge. It is more than is actually needed for maintenance. On behalf of the traveling public an effort should be made to persuade Coconino County to declare this trail a public highway with the understanding that the Department of Agriculture will maintain it or provide for the coclain cooperation plan. its maintenance on the / This would result in a cheaper transportation charge to the public and at the same time make it possible to put and keep it in first-class condition. Failing in this. be the claims of Coconino County should determined by Court proceedings, as there is considerable doubt as to the validity of the alleged easement.

Par. 51-A. Hermit Rim Road.

In Boverbor, 1916, a fire occurred at the head of the Hermit Creek Trail. At the time it was discovered it had reached the rim, was burning in the corrals. and was being swept cast. A telephone message to Grand Canyon terminal brought a truck of water, chemical extinguishers and twelve men with tools. By following the two cutoffs and using the rim road for only a mile and a half between Hohsve and time Points, the fire was reached in 20 minutes and extinguished before much domage was done. The Regulation proposed will not prevent similar emergency use in the future.

When the Hormit Him Rest House was built supplies and material, together with the water for mixing the concrete. was hauled from the terminal by waron. It has heretofore been necessary to haul by whigh all of the supplies and feed needed. for Hermit Camp and for the repair of the road itself. Supply trucks should hereafter be allowed to use this road, via the cut-offs, between dark and sunrise. During these hours horses will not ordinarily be encountered. (See Tar. 22.)

Par. 52-4. Grandview Road And Desert View Load.

The Grandview woad is maintained almost entirely by the Company. It has also built an additional fifteen miles to "esert View. It is proposed to extend this east to the Little Colordo Liver.

The annual maintenance of these two roads is given by the Company as \$1500, \$2500, and \$3500 from 1914 to 1916 inclusive. These figures give some idea of the amount to be assessed against liverymen. (See Par. 18)

Par. 53-A. Hermit Grock Trail.

The Acrmit wrock Trail from Acrmit Fost to Acrmit Camp (7g miles) was constructed under permit by the Company in 1911. The Company claims this trail and Hermit Camp cost over \$14,000. plus \$2500 annual upkeep for the former. The aile and a half of treil from "ermit Camp to the Colorado River is now being built and will probably be finished by the Spring of 1917.

Hermit him Road is the most expensive development at Grand Conyon. It me built in 1913, by the Company, under permit. The Company states the road alone cost over \$185,000, and that the maintenance has cost from \$7 00 to \$1600 per year. It is eight miles long and probably should have cost much less, had the proper materials been used in the first place. It is a beautiful piece of road and has done more to open up the Canyon than any other improvement except the railroad itself.

At the present time there is a special regulation prohibiting the use of this drive by motor vehicles. This should be slightly amended. (See Par. 22.) It would be unsafe for automobiles to be driven over this road simultaneously with horses. On account of the drive being comparatively short, probably the time will never come when it will be the desire to operate automobiles to the exclusion of horse drawn carriages. At the present time the round trip is made in three hours, including stops. To substitute the use of automobiles would also detract from the present dignity and quietude of the trip. Even should it be possible there would remain the question of saddle horses along the road.

The Hermit trail is of better construction then the Bright Angel Trail, and it is maintained in much botter condition. Two caretakers at \$50.00 per month are constantly employed. The Cathedral Stairs, which constitute the steepost portion of the trail, have been surfaced with coment so corrugated that there is no danger of animals slipping. This is an interesting example of concrete trail building.

There is an excellent rest house (built under permit) at santa Maria Spring, where lunch is taken on the down trip. Plenty of water has been developed here. Necessary and clean toilets have been installed. The guides take a personal interest in burning lunch boz refuse, so that the entire distance of the trail presents a clean and orderly appearance. The Company seems to take wride in keeping it in first class condition and employees boast of its superior points.

Par. 54-4. Tonto Trail.

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The Tonto Trail is an Indian trail parallel with the

the Colorado River. It derives its mane from the fact that it follows the Tonto sand strata. The west extremity connects with the Waldron Trail (which reaches the rim west of Hermit Creek Trail and is now not safe for travel.) The eastern extremity is difficult to determine. Thether or not it originally connected with Turner Trail east of Grand View, or entered Marble Canyon, is a question often discussed.

The original Tonto Trail was improved under permit by the Company from Hermit Camp to the Indian Gardens, during January and March of 1913. They claim to have also spent from \$500 to \$600 per year since then for upkeep. This portion of the Tonto, the Bright Angel Trail, and the Hermit Trail comprise the so-called Loop Trail trip, which is at present made by parties in two days by stopping over night at Hermit Camp. A branch from the Tonto Trail to the Plateau extending from near the Indian Gardens to Turtle Head Point is one of the most popular side trips from Bright Angel. It is now the intention of the Company to improve this trail and to construct some much needed toilets and shelters under its permit. The Forest Service has supplied an incinerator at this Point, and it is used to good advantage. The company has under consideration the construction of shelters for stock. It is said that during . the mid summer months, saddles get to hot while the riders are dismounted that they are uncomfortable to mount.

Par. 55-A. Rim Developments.

All of the existing Rim developments in front of El Towar and the Bright Angel have been constructed by the Company.

PROSPECTIVE DEVELOPMENTS:

Par. 56-A. Community Buildings.

An excellent and pppropriate school house has been constructed by the Grand Canyon school district.

An application has been received for permission to construct a church, and an area for this has been selected and is being held for that purpose until funds can be raised.

Commercial Projects

Par. 57-A. Indian Gardens.

The Indian Gardens constitute the more or less level stretches on the first mess on the Bright Angel Trail at an elevation of 3,800 feet above sea level or 3288 feet below the rim at the head of the trail.

The water at this point has made it a desirable stopping point for trail parties to lunch. Due to mineral claims, however, there has been no authority to keep the place dean, and it is in a filthy and disgraceful condition. Files of decayed remnants of lunch were found within a few yords of the trail at several points. Lunch boxes with the cards furnished by the forest Service requesting care with refuse are found seattered from one end of the Gardens to the other.

One of the Coconino County Trail caretakors lives here. The surroundings about his living quarters are as filthy as other parts of the Garden. Tourists who pass up and down the trail probably often get the impression that this man is an employee of the Government.

There are four springs at the Gardone capable of supplying water for extensive hotel and living quarters. The surplus may some day be pumped to the top of the rim unless other arrangemente are made.

It is the plan of the Company to develop these gardens as a stopping place for tourists who wish to remain in the Canyon over night or longer. A wax model has been made of the proposed development. It is the plan to have a number of individual contages, some supplied with baths and others not. The plan is to fix a rate for the chesper quarters to low as to be within reach of people of limited means. The prices of the more pretentious quarters are to be fixed high enough to help bear the costs of operation for the others. There is to be a central dining hall and a large lounging room with large fire place. Corrals for stock would be placed below.

In the residential district a town park has been reserwed within which a tennis court and band stand might well be looated.

It is not likely that a regular W. M. C. A. could be made to flourish at this point for many years to come. However, it is barely possible that a railroad Y.M. C. A. may be placed here by the Company, in which event it will doubtless be on the station grounds. If not, two of the lots in the residential district could well be used for this purpose.

If golf links are laid out, the probabilities are that they will be under the auspices of some club and probably some distance from the terminal. Accordingly, no provision is being made.

Grounds for a cemetery have been provided on the juniper hillside south of the railroad Y.

The Fost Office is at present on the canceled Cape Horn claim and will doubtless remain there until a general store is built, at which time they might be operated in conjunction.

There is a limited agization for using the (old school house for a civic center or town ball. However, the new school house will better meet this meed.

It is the idea to have chickens and cows so as to furnish fresh esps, milk and cream for the patrons. In order to do this there must be poultry pens and small pastures. For this purpose it is proposed to develop the lower Indian Gardons where there is n not to exceed ten acres of land which may have walke for these purposes. It cannot be hoped to grow enough feed for these cows; and, of course, the remainder must be packed down the trail.

The Company's landscape gardner desires to leave natural conditions undisturbed as much as possible. Cottages are to be built against or partially on top of boulders. Existing trees and shrubs are not to be disturbed. There is practically no wood supply, and the introduction of sucalyptus has been proposed.

The whole idea of developing the Indian Gardens is based upon the principle of making it appear, at least, as being independent within itself. The cliffs near by have cove houses and dugouts as living quarters for the Supai Indians, which tribe formerly inhabitated this spot. These Indians will care for the garden spots. Fresh vegetables could be raised during at least eight months of the year. The offect should be pleasing.

The project is stupendous after one considers that building material must be packed from the top on mule back. This tract can hardly be put to any higher use than the one proposed. The

expenditure, which will be distributed over five to ten years, will probably be \$100,000.00. The mules which transport these supplies will be taxed the \$1.00 toll unless special consessions are made by the County authorities, or the present arrangement is permanently altered. (See Par. 49-A.)

It is planned to be able to take care of 60 guests per day by the end of next season, future developments to depend upon the demand.

The right of way along the Bright Angel Trail is claimed to be 40 feet in width. (See par. 5.9-A.) It practically ruins the upper Indian Gardens. It is essential that the trail be moved slightly in one or two instances. Even so, buildings will be within 20 feet of it.

Several years ago Kolb Brothers (See Par. 41-A) built a eabin at the lower end of the Upper Gardens. It was used for making of enlargements, since a free water supply was at head. The building probably cost \$700.00 including packing the material. The County's employee who lives nearby states that it is used an average of three times a year. Mr. Emery Kolb claims to use it three times a month. The building has an abandoned appearance. There is no objection to the continued use of this building and site provided it is maintained in good order and the premises kept clean. However, any permit should be issued for an extremely small area surrounding the house and should clearly stipulate that it will not interfere with higher use.

Par. 58-A. House-keeping Cottages.

The Hotel management has decided that even the cheaper rates at the Bright Angel Hotel do not meet the requirements of what is considered to be the most desirable class of tourists and visitors. Educators, scientists and artists as a rule cannot afford to stop at El Towar, and pride makes Bright Angel accommodations not quite satisfactory. It is for these that they now propose to undertake an entirely now development; namely, the construction of a group of artistic and plain but clean and light housekeeping cottages. These must be located so as to offer practically the same advantages as the hotels. It is the plan to have them in a group immediately west of the Bright Angel Hotel, south of the head of Bright Angel Trail. A location between the two hotels would not give the desired surroundings. This cottage idea, together with the Indian Cardens plan, is probably responsible for the Company's purchase of the Halph Cameron mining claim interests. (under permit as residence.) The officer in charge is seeking evidence on this. black gam 1917.

There is unquestionably a need for a general store. The officer in charge and a very considerable number of other residents are compelled to send to Williams for all supplies. The Company cannot operate a general store under its charter; and it is understood that while the Manager of the El Towar hotel is anxious to open a store, higher officials in the Company are opposed to this on the ground that it would be necessary for them to incorporate a separate company. The real objection of the Fred Harvey Company to this plan is probably that it could not, without becoming involved with the Interstate Commerce Commission, have its freight for a store houled free of charge as at present, and to handle on a pay basis would complicate book-keeping. Comport who mant milk or fresh meat cannot buy them, but are often furnished supplies by the hotel managers without charge. Likowise the Company cannot sell feed, and often feels it has to give away grain and hoy, to meet real needs of campers. Several appliestions for stores have in the past been rejected on the ground that the National Monument would likely at an early date be placed under the jurisdiction of the Interior Department, as a Mational Park, and through a mistaken idea that present needs could be met by the present meagre agencies.

Now that the construction of housekeeping cottages is contemplated, one store at least with adequate service is absolutely necessary. Company officials would have an accurate check as to when prospective housekeepers would arrive and when they were leaving, which is a good argument for a company store. However, the Company would probably rather have cottagers patronize an independent store if operated on a first class and non-partisan basis.

The cottage community plans as presented call for a store in zone 2. Under the proposed zone plan the store will, however, have to be south of the tracks in zone 4. Sala Mangle flar livit center TEW

The proposed regulations confer specific suthority to control prices and service for any stores allowed and for further regulation, if mecessary, in the interest of the public. (See Par. 12).

The cottage lots are to be irregular in shape, separated by rustic stone walls two feet in height. Meandering paths are to make the connections. The central courtyard is to have a community fire place, open to the public, and to be supplied with fuel, dutch ovens and other necessary utensils for camp cooking, corn roasts, or barbeouss, the idea being to feater a community spirit. Detailed building plans have been prepared by Hiss Colter and submitted.

Par. 59-A. General Store.

The Company operates a small store at the Hopi House, which is said to trade only with the Indians. A store of a similar mattre is operated by Hr. Verkamp. There are rumors of another store said to be operated secretly by H. C. Metager at his residence

Par. 60-A. Desert View.

A permit was issued to the Company Sometime ago for .95 of an abre at Desert View, on which tent houses have been constructed. The water system consists of a 1400-Gallon cistern, which is filled by houling water on motor trucks from the reilread terminal. These tent houses have been used by tourists who desired to spend the night at Desert View to witness sumset and sunrise on the painted desert. It was recently decided to enlarge the camp, and permit was issued for a total of 2.89 agres for existing and additional tent houses and outbuildings. The new buildings are to be located so that they cannot be seen from any other wantage point and are far enough from the rim so that ne view can be obstructed. These temporary structures will probably give way to permanent ones in the future.

Par. 61-A. Livery offices

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Livery offices must of course be appropriately

designed. They should have individuality and so should not follow any set plan. A minimum per office cost should be about \$350.00. The londing blocks should be in the rear of the office, and a loop drive should connect them with the main read via the draw to the south.

Projects for Convenience of Fublic.

Par. 62-4. Rim Parks East and West of Terminal and at Verkamp's. For policy on Rim Parks see Par. 16 and 19. Proposed Park development at Verkamp's is covered by

Par. 40-A. Fermit should issue.

Hence cottage, and the Housekeeping cottage area has been informally applied for by the Company for the purpose of development as a Park. Miss Colter's plans indicate that this is to be parked and used for future extension of the cottage community. This should not be allowed, as the strip is very marrow and should never be used for any sort of buildings. It should be permanently retained in Zone 1.

The Company should be offered a free separate permit for the area for park purposes only, specifying free public use. Their plan to plant native shrubs is acceptable. A Park in the ordinary sense of the word would of course be inappropriate.

The cost of this perk, plus the adjacent rim development is estimated as \$5000.00. (See Par. 63-A.

East Park. Eventually the rim east of the terminal should be parked. For the present the rim developments involved in the Yavapai Trail will suffice. (See Par. 64-A.)

Par. 63-A. Rim Developments.

<u>Cottage kim</u>: The rim below the proposed cottages is not precipitous but consists of a series of benches. It would not be proper to allow the development of any portion of the rim so as to exclude the general public, as it has in the past been excluded on account of the Cameron livery corrals and buildings. Miss Colter's plans propose the development not only of the upper, but also of two of the lower benches by the construction of trails, seats and shelters, so built as not to be offensive to the eye from any vantage point above. cottage. This would require an additional \$5,000.00 for rim and park. (See Far. 62-A.) From past experience it is very unlikely that Government funds will be available for this project.

Par. 64-A. Yavapai Trail.

One of the most important walks from the terminal is east to Yavapai Point. Apparently no work has ever been done on this trail, and pedestrians must stumble over rocks and boulders almost from one end of it to the other. \$200,00 would put the 13 miles of trail in good condition. The Porent Service should do this if at all possible. (See per. 19.)

GENERAL ADMINISTRATIVE PROBLEMS.

Par. 65-A. Water Supply.

Grand Canyon Terminal has no natural water supply. The average consumption is five cars of 10,000 gallons each a day and during the rush season often runs as high as 100,000 gallons per day for weeks at a time. Until recently water was hauled from Del Rio, over 100 miles distant. The Railroad Commany has now constructed a reservoir at flagstaff under a ton year agreement with the City, which makes provision for ultimate acquisition by the municipality, and assures the Company of additional water for operating and other purposes. The water is valued at \$5.00 per tank f.o.b. cars at Jiagstaff. The freight rate averages \$45.00 per tank from Flagstaff to the Grand Canyon, and water is sold there to private parties at \$50,00 per tank, or without profit except as to the freight business produced. The so-called "Independents" must depend upon the Company for their water except what little they may oatch in cloterns from the roofs of their buildings or the limited amount of surface water causht in tanks below town for stock purposes. The Company could undoubtedly have complicated the furnishing of water to such an extent that the "independents" would long ago have left this field. but did not.

It was agreed that the front retaining walls of the housekeeping sites should not be placed nearer then 15 feet to the rim, and that the Company should construct a trail and retaining walls along the rim in front of these cottages and leave it unobstructed and open to the general public. In addition it was agreed that the Company develop lower levels as above described by which means the usable Rim Some is greatly increased in width.

An estimate of the cost of the cottage area rim developments is \$5,000.00.

Park Rim: The plan is to have a public park west of the cottage area, and that the Soreat Service should develop the rim in front of the Park. However, if funds are not available, the Company is willing to develop the entire rim as far west as the Hance Emory Kolb systed in his lecture (See Par. 41-A) that the Company charges them \$66.00 a <u>Fank</u> for water. An investigation shows that water costs Kolb Brothers \$50.00 per <u>tank car</u>. In addition to this the water is pumped and delivered in Kolb's tank free of charge. Kolb's tank holds more than a car, and it costs them \$66.00 to have it filled. This statement to the public is distinctly misleading, since anyone would naturally suppose that what he meant was a tank car.

There is a project under way which may eventually result in water being piped from the San Francisco Mountains to Grand Canyon. The Company also has had under consideration pumping the water from Bright Angel Creek on the north side of the Colorado River. More recently it has considered the possibility of pumping water from Indian Gardens. The probabilities are that the water situation will be greatly simplified within a few years.

The principal problem now is one of conserving the

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waste water for secondary use. Practically all of the overflow from the septic tank is used for washing carriages, stable floors and for irrigating the Company grounds. The Company now proposes to build a reservoir along the tracks below the septic tank for the purpose of outching the winter overflow. This could be used during the Spring for irrigating the grounds about the Bright Angel Hotel and the proposed cottages. The greater part of this tank will probably fall just couth of the Henument boundary line, and should be constructed under permit rather than covered by essement.

The question of water for the jublic camp grounds has been a more problem. Compare were at first allowed to get all the water they wanted at the Company garage. Fatty thisving at the garage moon put a stop to this, and the compare were required to go to the power house where there was a faucet and nothing loose nearby. During the season of 1916 the tourist trade increased so that the average use for the season was about two barrels per day. Such use is a constant source of annoyance and reached a point of such financial importance that it was felt that a moderate charge should be made. The railway agent has charge of the water, and now the tourist must go to him, pay 25 cents for each day and get an order on the power house for water. This restriction has not proven matisfactory.

Nater slot machines have been proposed, but the Company's agent says that they will not bother with them, since slot machines would probably be out of repair most of the time on account of slugs, washers, etc., that would doubtless be used to beat them

The proper solution will be to instell a faucet in the vicinity of the garage, where it can be observed by the man in charge, and equitable charges collected. The officer in charge should take this matter up.

Per. 66-A. Sanitation.

There has been complaint during the post several years because waste steam and laundry water from al fowar were being piped over the rim, but these muisances are now being climinated. a pearance of the camp grounds. It is practically impossible to keep them absolutely clean. Over 1,000 people used them during the past meason. Fly traps should be installed. For details see par. 68-A.

The Company stables are cleaned daily, menuro being hauled away and floors actually washed. A garbage car is always found at the upper and of the Y and refuse from all parts of the settlement, with the exception of what is thrown into the incinerator, is dumped in this car and hauled away.

The Company septic tank is said to have cost \$20,000.00 and is considered sufficiently large to handle all that is piped to it at present. Fractically no odor can be detected even on top of it. The charcoal should be changed annually; otherwise the tank is not effective.

The question of senitation in connection with the use of water this septic tank/is one that should not be overlooked. She water is absolutely colorless and odorless, sold to be tasteless and is taken freely by all binds of stock. At the present time the winter overflow goes into the tanks built by 4. 7. Bass further down the tracks. If the septic tank is properly taken care of, there is no danger connected with using this water for stock and secondary use. If the water is not safe for use, it might be a perious matter to use it for irrigation. Accordingly, samples should be examined by the State Health Department periodically. The officer in charge should see to this.

At Indian Gardens, the architect's plan is to install the Kaustine sanitation system. The Kaustine system is a combined chemical and agitation process, and under intelligent supervision should be better than septic tank or sower disposal, since it would be difficult to handle the effluent of the latter systems.

The question of newage disposal on the public camp grounds is an important one, and constant vigilance on the part of the officer in charge will be necessary. Modern toilets and sever connections with the Company septic tank could probably be arranged but would be impracticable, both on secount of waste of water and abuse of sever toilets. Fit privies, carefully supervised, seen the only solution. (See Far. Zustolets built 1419.

The pipes are being connected with the septio tank overflow.

The manure pile near the Cameron livery stables on the canceled Cape Horn Lode has probably been the most noticeable and really objectionable nuisance. The expected injunction against unpermitted occupancy and use of the Cape Horn lode will abate this nuisance.

The "ompany plans to move the section houses now located on the right of way, further south and out of sight on land covered by special use permit. (See Far. 33-A.) These buildings are to be connected by sower with the septic tank.

The Company maintains a large incinerator on the station grounds between El Towar and Bright Angel Hotels where paper and light rubbish are burned daily. It is unsightly and the Company should be persuaded either to move it or reconstruct it it.

The grounds surrounding the house built under permit by Cocomino County for its representative and its corral are unsightly. County officials should be required to clean up these grounds.

The officer in charge is to be commended upon the

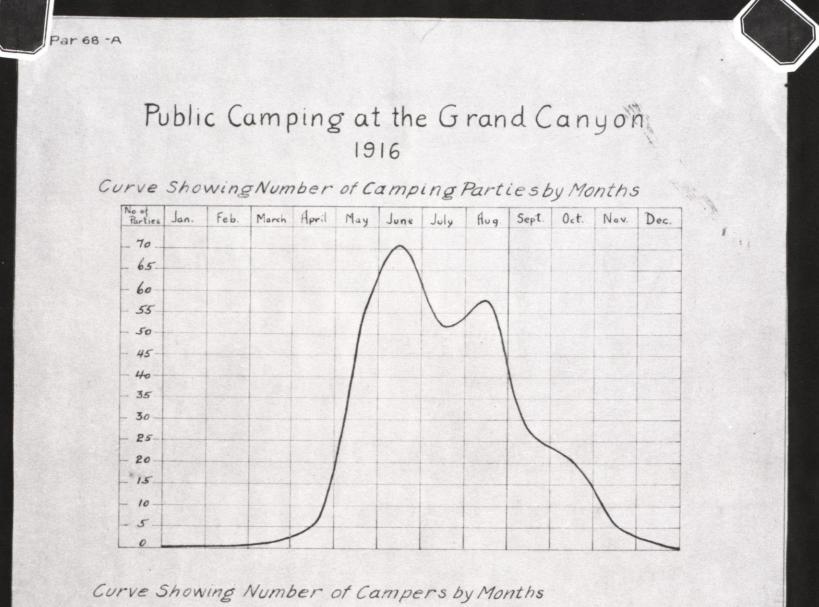
Par. 67-A. Fublic Safety.

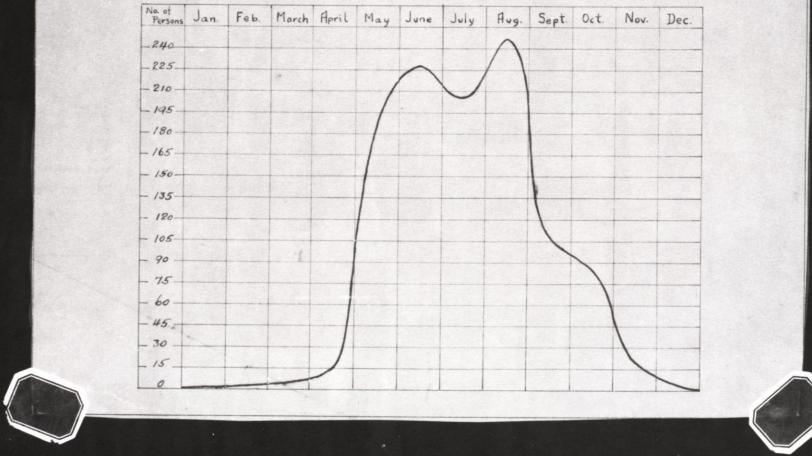
Company automobiles are driven entirely too fast about the terminal. It would probably be impossible to enforce a speed limit. The example is bad, and to insure safety they should be required to drive more moderately.

Some livery outfits have driven their patrons off of the road to the edge of the rim itself. It seems to be a common practice for some liverics to drive teams on to some of the points. This is absolutely unsafe and should be prohibited.

There are practically no retaining walls or hand rails along the rim except near the hotels. Hand rails are not entirely in keeping with the rim, and it is suggested that a two-foot stone retaining wall be adopted as the standard safety device for rim improvements. Stone and concrete walks should be adopted as the standard rather than board walks. Flank walks are unsatisfactory for the rim.

The rolling of stones over the ris seems to be a sport







(Inserted)

generally indulged in. Occasional signs may be seen stating that this is forbidden. The signs are needed, but there has been no authority for enforcing them. This is provided for in the new regulations.

Par. 68-A. Public Camping.

The accompanying chart shows the number of campers and camping parties accommodated at the Public Camp Grounds during 1916. The data was compiled from the "Notice to Campers" or so-

The object of these permits is to get instructive data into the hands of the camper. Their use should be continued. When reprinted, there should be added a clause prohibiting camping or hanging of blankets, clothing, hammocks, etc. at a less distance than 100 ft. from a public road.

Eighteen parties have camped on the public camp ground at one time. The present site may eventually be needed for structures of some sort. The number of parties will also probably increase. In such event the camp grounds may be extended to the east.

Although garbage cans and pits are furnished, it is difficult to keep the grounds clean. There is an inevitable accumulation of small trash which the Forest Service must clean up.

Fireplaces and rough tables similar to those recently placed at Cave Creek on the Chiricahua National Forest should be given a trial. It is believed that they will be very popular and actually prove an economy measure, since most debris would be completely consumed in the fireplace. (See General Instructions for Recreational Uses, Par. 22).

Bulletin boards after the style of those placed in the rublic camping grounds in Cave Creek should be constructed for post-A ing of regulations, maximum livery rates, special signs, and the names of permitted business enterprises.

There is an excellent opportunity at the Grand Canyon public camping ground for disseminating knowledge and information additional fire organization. The officer in charge should continue to be fire-chief of the entire Division. Grandhaled.

The present force of one officer in charge and one Assistant is proper and necessary, and should be permanent. (Fire guards are not discussed here.)

Memporarily, however, the putting into effect of this plan will necessitate an extra amount of field work by the two permanent men, and at the same time a heavy load of office work. It should also be remembered that one man will have to be in the proposed office from early morning until late evenings, to answer inquiries from tourists (who begin to arrive between 6 and 7 A.M.) and during the fire season for telephone communication. It is therefore recommended that a clerk or other assistant be temporarily assigned during the entire field season of 1917.

Par. 70-A. Relation to Fire Plan.

The provalent south winds mean that any fire which might occur in the woodland to the south endangers the forest along the rim. Top fires have occurred in this woodland, which indicates the degree of hazard. It should also be remembered that the traveling public is always a hazard. Reports for the past season show five fires to have originated from lightning, one from the railroad, two from unknown causes, and six from campers. The largest fire was two acres in area.

If any of the rim stands should be burned, the scenic value of the Canyon would be materially injured. This area should receive the most intensive patrol of any area in the southwest.

Now that roads are being opened up to the east, more attention should be paid to what is known as the Coconino Basin. Unless the present lookouts can be rearranged it will be necessary to provide at least one additional tower. Multions Emer 1917 Zmils cantford View

Handling Uses.

Par. 71-A. Issuance of Permits. List of existing Permits.

No term or irrevocable permits will be issued for any

regarding Forest Service work.

DETAILS OF ADMINISTRATIVE PLAN.

Par. 69-A. Administrative Force.

Heretofore the ranger stationed at Rowe Well Ranger Station, in addition to having charge of the Grand Canyon District or what is now the Grand Canyon National Monument unit, has had charge of the fire plan for the entire Grand Canyon Division. The three rangers on this Division depend upon telegraphic communication with their Supervisor at Williams. The telephones at the various stations are centralized at Grand Canyon terminal.

The Monument is now established as a separate administrative unit, with an officer in charge responsible to the District Forester. There should, however, be an exception made with respect to the fire plan. It would be unfortunate to set up an pur pose.

The officer in charge will be responsible for seeing that no permit is recommended for any use or to any person not meeting the requirements of this plan. He should have authority to issue minor permits.

List of Existing Permits Present Uses Permittee Case Pres. Remarks Pres. Date Area Fee 200.00 Formerly 76 A. Buildings G.C.Ry.Co. 3/6/06 40.0 Station Grounds (rim dev.) 4/8/14 2.4 12.00 Four separate tracts Garage S.F.L.&I.Co. 4/8/14 1.4 10.00 Adding machine shop. Store(curios) J.G.Verkamp 2/20/05 .25 20.00 Used as residence. 10/11/15 .02 10.00 Temporary per-mit expired Livery Office Bass, W.W. 4/29/16, which

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14 concrete

foreplaces non in existence. 1919

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Sunded intr Lung - 4/1/18 Reading track # 1. 4/1/18 " 2 4/1/18

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was only recently noticed. Permit

not replaced, pending approva]

List of Existin	g Permits (Cont)	Pe
Present Uses Permittees	Case Pres Date Area		
Livery office Bass, W.W.		\le	ac
		jolumen t.	ne
	10/9/09 4.0	10.00 Residence and barns.	ir
School House School Dis	t: 2/3/16 1.03	Company furnishes free light, heat	la
Board Walk School Dis	st. 8/23/16 344	and water.	1/1,
Water & Heat School Dis line #4	t. 9/18/16 285'	Constructed Not constructed lam fletted '?	in t
Church M.E. Churc	h 4/21/16 .34	No construction letout TEU	01
Residence Metzger, M	.0.3/1/16 .40	10.00 Tent house -poor	fu u 1
Residence Hance, Joh	n 9/24/15.06	Expiration 4/1/16. Poteton Passed unnoticed. Require removal of outhouses on issuance	
P. dana			moved re
	0. 1/15/15 .41	Residence and office.	ar
Arthur	9/15/15 .5	Residence and office. With 10.00 Tent house - poor deback the location.	be
Pasture Lockridge Wm.		2.00 Combine permit to Coconino County. (Profile)	he
Roads, Trails, S.F.L.&I. Buildings, Co. Landing plat- forms.	5/3/09 50.0	40.00 Includes Rim Road, Hermit Trail, hitch racks, landing plat- forms, Hermit Rest House, Hermit Camp, Hermit Creek pipe line.	cl
Toilets S.F.L.&I.	4/13/14 .01		wł
Co.	1/2/15 .014		tl
Telephone Line "	3/30/11 4.5 m		to
н н п	5/21/13	11 H H	mo
Pasture "	9/22/08 1240		th
Pootune	11/14/00 40	to this.	01
TABULT	11/14/08 40 d 7/30/14 245		Lo
Cabin Big Jim	11/1/13 .3		t
	2/26/04 5.0		y
Ditches Metzger,M.C		clain 12 offarte	LA
Stock tanks Moore, Sam			r
Stock tank Bass. W. W.	4/29/09 2.5		ec
Stock tank Indian Agen	t 4/1/14 1.0	G-5 Stock.	
	4/2/14 1.0	** **	01
Drift fence #1,Havasupai Indians	\$/4/13 6.5	m " "	-
Drift fence #2, "	3/5/13 3 m		cl
Drift fence Hearst, W.R.			C.L.A.
Pasture "	7/3/15 322	a. 16.10 Better grass than S. F. L. & I. Co.	Pa
Rener Mana Gamman Gamma	0/19/03	pasture	
Sewer Line Canyon Copp Co. Agricultural Berry, P.D.	3/2/09 7.5	Not used letre to the New TEn	ho
		ed - On Tusayan . Ten	of
Rest House S.F.L.&I.			fo
Roads, Trails Tusayan M. & S. Co.			ci
Aerial TranwayTusayan Mo.	6/18/15	50.00 letraid TEm	ro
& S. Co. Telephone con-Reed, Geo.	and the second	Used by guards	or
Telephone con-Kirach, Cha	Arra and I word		Зи
nection	a contra		th
Telephone con-Buggeln, nection Martin	14-5	-13-	sh
Telephone con- nection Berry, P.D.			

ar. 72-A. Revision of Present Charges and Areas.

Charges for all existing permits are based more or less on creage. This is fundamentally unsound, the more so since the acreage ow covered is in many cases ill-adjusted to the permittee's present need and use of the ground. Moreover, a flat acreage charge is not n accordance with Reg. L-33 (Manual page 46-L) and the principle aid down in page 50-L of the Manual.

Under the plan, the officer in charge will be responsible for recommending the adjustment as rapidly as necessary, practicable, or desirable of all current permits, and reporting or acting on all future applications, in accordance with the following principles. The argency of adjustment will be decided for each special case on its nerits.

(a) Charges to be based (See (c)) on estimated ground ental value of area, considering purposes for which it is to be used, and guided in a general way by the schedule of charges in Reg. L-33.

(b) Areas to be based on actual present need. No areas to be held under permit for proposed future development. Areas now so held to be cut down to present use.

(c) All uses to be classed, as to charge, into one of four lasses.

1. Commercial Uses. i.e., operated primarily for profit, whether profit accrues from the use itself or in an indirect way to he permittee or affiliated parties. Charge for commercial permits to be a fair estimated rental value, bearing in mind, however, that noderate charges to the public by the permittee are more desirable than high uses receipts. This class includes all cases involving a harge, or selling goods to the public.

2. Residence. 5.00 to 25.00, as prescribed, in Reg. L-33. Lots reserved for residences to be priced in advance as far as pracicable.

3. Public Uses. This includes practically all other uses. All projects theoretically devolving up on the Government, such as coads, trails, and rim developments, to be in this class, also all ommunity buildings. No charge for uses of this class.

4. Combination Uses, involving a combination of two or more f the above classes to be charged for at an equitable modified rate.

Special Cases: The Hance residence should continue free of harge, but his outbuildings should be moved to better locations. nd premises clean ed up.

Information and Publicity Work.

ar. 73-A. Information Office.

The officer in charge has at present a 10' x 12' tent ouse which serves as an office. It is labeled "Temporary Office f the United States Forest Service". Funds have not been available or a more permanent structure, although the needs have been appre-Compressforfunde backuformatin + exhibit room iated for several years. A combined office, information bureau and permanent exhibit com is absolutely essential. No other ofice on Government owned or controlled land should be permitted to use the sign "Information

ureau". In the office should be posted the schedule of trips and he regular charges of each permittee. Information regarding each hould be given without bias or favoritism. This can be accomplished best by posting a complete system of bulleting. The fact that the various enterprises have permits should establish their reliability.

Advertising literature of livery men and curio dealers should not be dispensed from this office.

A proper sign, lecated at a point to attract the attention her was due multiplicity of prominent signs. of railway passengers, should show the names of all who hold permitsofy durby for the transaction of business, and give notice that authorized schedules and rates may be seen at the Information Bureau.

The information office should be supplied with an up to date fire map. indicating the operation of the triangulation fire detection system. Departmental and forest Service literature on the subjects of forestry and allied subjects should be available for distribution.

The office building should be of logs and have at least three rooms, one for the information bureau, one to serve as an office, and another for a permanent Porest Service exhibit.

The most appropriate site would be south of the Verkamp store facing the El Towar hotel. For estimates see Par. 20.

Par. 74-A. Hopi Tower.

4500 persons have registered at Hopi Tower since the opening of the 1914 sesson. The register contains many flattering commonts on the work of the Service. The fact that this is a sightseeing point, as well as a lookout towar, points to the selection of a lookout man who in addition to knowing the territory and understanding the detection system, will have the ability, personality, and presence to meet the public and explain his duties and workings of the Porest Service.

Par. 75-A. Folder Map.

A Folder Map or Official Guide prepared in 1915 but never rublished should by all means be brought up to date, published and distributed from the Information Office. It shows more valuable information than any other suggested plan. It would probably be taken home by most tourists and thus would serve as a very valuable medium for distributing information.

Par. 77-A. Sign System.

Fortals are insdvisable at Grand Canyon.

On account of the diverse activities involving signs there will be a tendency, unless foreseen and prevented, toward an un-

The officer in charge will be responsible for recommending construction of needed signs. In doing so he should be guided by the following principl. ss:

(a) A large number of small inconspicuous metal-framed signs should be used instead of a fewer number of large conspicuous signs, wherever practicable. For instance, fire and sanitation warnings on the public camp grounds should consist of a small sign at every camp site instead of one or two large biliboard-like signboards.

(b) There email ligns are not practicable. standard green on ivory wooden signs should be used. Road and Trail directions, "Fablic Camp Grounds", etc. fall in this class.

Agen plan completed 1918

Living Quarters

Far. 78-A. Head for New Quarters.

An officer in charge and his assistant now reside at the Howe Well Ranger Station three miles from Grand Canyon Station end entirely off the Mational -onument. The water supply is rented from wr. howe, who has mining claims nearby, of which 65 acres are now going to patent. The pasture is practically worthless, and when the ranger leaves his spation on a trip requiring his absence for more than a day it is necessary to take horses which he is not using to the Company correls at the reilroad terminal. This is extremely expensive, both in time and money.

For the Hanger to economically and effectively administer the Grand Canyon it is absolutely essential that he live near his work.

Ter. 79-A. Plans for How Quarters.

An area has been selected near the rim on a ridge east

Par. 76-A. Possibilities of Wireless Telephony as an Educational Measure.

There is is demand for telephone communication with the north rim. Tourists who wish to take the cross-Canyon trip are required to telegraph Kanab or rely upon signal fires. (See Par. 50-A.) The County of Coconino should be interested in such a line.

A line from Grand Canyon Station to the Hiver and up Bright Angel Greek would cost a large sum of money. It is understood that a better route might be found via Bass Camp-Havasupai Indian Reservation-Shinumo Creek-Moab to Canyon-Hyan Banger Station on the Kaibab Forest, from which point there is telephone connection to Kanab. It would probably cost \$500.00 per sile to build either of these lines. The question of maintenance would also be troublesome and expensive.

In view of the proven practicability of wireless telephony it is urgently recommonded for the Grand Canyon. For estimates see Par. 20. The operation of the one located at the terminal would be inexpensive, the Company having offered to furnish the power.

Surprised completely installed in theme to any office, 918 north sich nucle her our ton generation & new engine por tonseport of

of the terminal (see map.) It would be usaless to build a pasture, since there is practically no grass. However, large corrals and stables should be provided.

The location and design of the building is important. A suitable house cannot possibly be built within the present \$650.00 maximum. At least \$3,000.00 will be required for the house alone and probably \$1,500.00 for barn, outbuildings, fences. heating system, pipe lines, telephone, water and light connections. All the buildings should be of logs. Hiss Mary S. J. Colter has promised to prepare plans if basic data are furnished her. If it is found that there is not sufficient pressure for having running sater at this point it might be hauled in barrels up the principal draw which is an excellent location for a road and which may be cleared in fairly good condition at an extremely low cost. A cistern to catch the drainage from the roof would, however, supply enough water except for strictly personal needs. Electric light could easily be secured

direct from the power house.

MISCRILLAMNOUS.

Par. 80-A. Game and Flah Flag.

The Grand Canyon Mational Game Befuge (Act. of June 19. 1906. 34 Stat. 607) covers the Grand Canyon National Monument as well as additional portions of the Tusayan and Esibab Forests.

The refuge is estimated to contain 10,000 black-tail deer ford. (census by District -4) and about 600 head of mountain sheep (Hornaday 600, Sheldon 1,000, May 600.) The importance and velue of this herd of sheep can hardly be overestimated, since it is the largest remaining herd of mountain sheep in the United States, not excepting even the Yellowstone Herd. Most of the sheep and deer are on the northern side of the Colorado River.

There is a herd of about 75 antelope located east and south of Nowe Well which is also very important, since at some future time they can possibly be made to range around the terminal and afford an interesting sight for visitors.

Two Jaguars or "Mexican figers" were killed mear Bass Camp two years ago. The Canyon is infested with lions in places.

Hermit Creek and Indian Garden Creek should be stocked with - 1300 random tout flanked in Hermit Gud rainbow trout. On account of their small size it will be necessary to prohibit fishing. Under the proposed Federal Game Hefage bill, this will be possible under the clause authorizing the regulation of fishing.

Indian Gardens should be stocked with quall and pheasants. While the Act of June 29, 1906 does not mention birds, the public would probably consider them as included within the terms of the game refuge. They can also be covered by a local closed season under the new Arizona Law.

It has been proposed to stock the region around the terminal with elk, but it is probable that the lack of running water will prevent the success of this plan.

as to merit a special effort on the part of the officer in charge to prevent all hunting.

Por. 81-A. Suggested Revision of Flace Eames.

Super TEmylder Mr. Simms, who is the active head of the Field Luseum nonted m of Chicago has complained of the naming of the various fostures a man who has taken enterest the Grand Canyon. The following are taken from the map:

> Zoroaster Temple Juno Temple Freys Castle Thor Tomple Lomo Loint Buddha Temple Osiris Temple Confucius Temple Masonie Temple Gullahad Point Ruby Canyon Diamond Canyon Topas Canyon

be to info

km.

far holas

Queen Isis Raji Point Notan's Throne obi roint Brahama Touple Shiva Lemple Tower of Ra Holy Grail Temple Mencius Tomle Aing Arthur Castle Turquoise Conyon Saprhire Canyon Slate Canyon

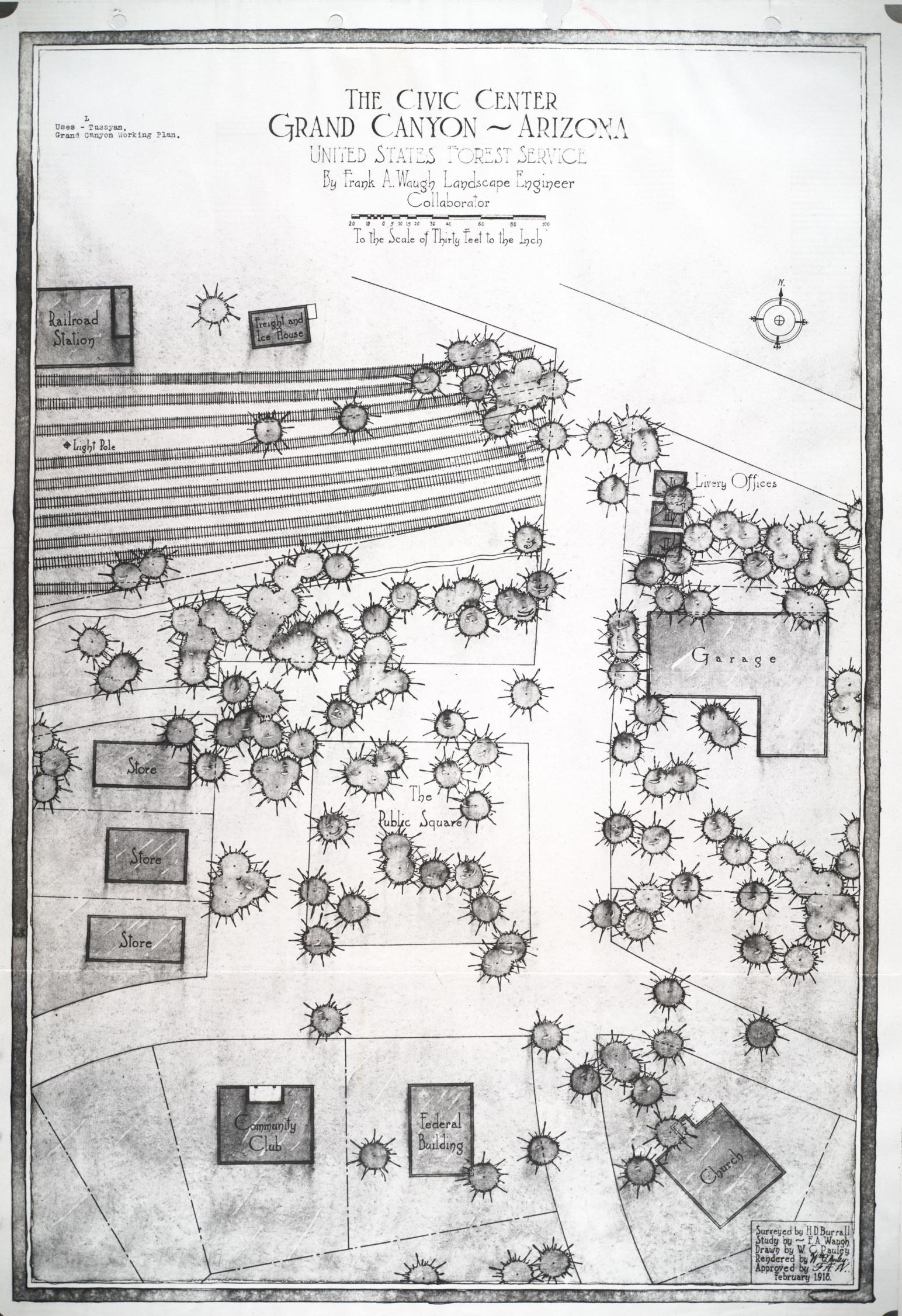
Clerks at the hotel desks state that slaost daily they are questioned as to these names and asked, for instance: "Are diamonds really found in Diamond Canyon?"

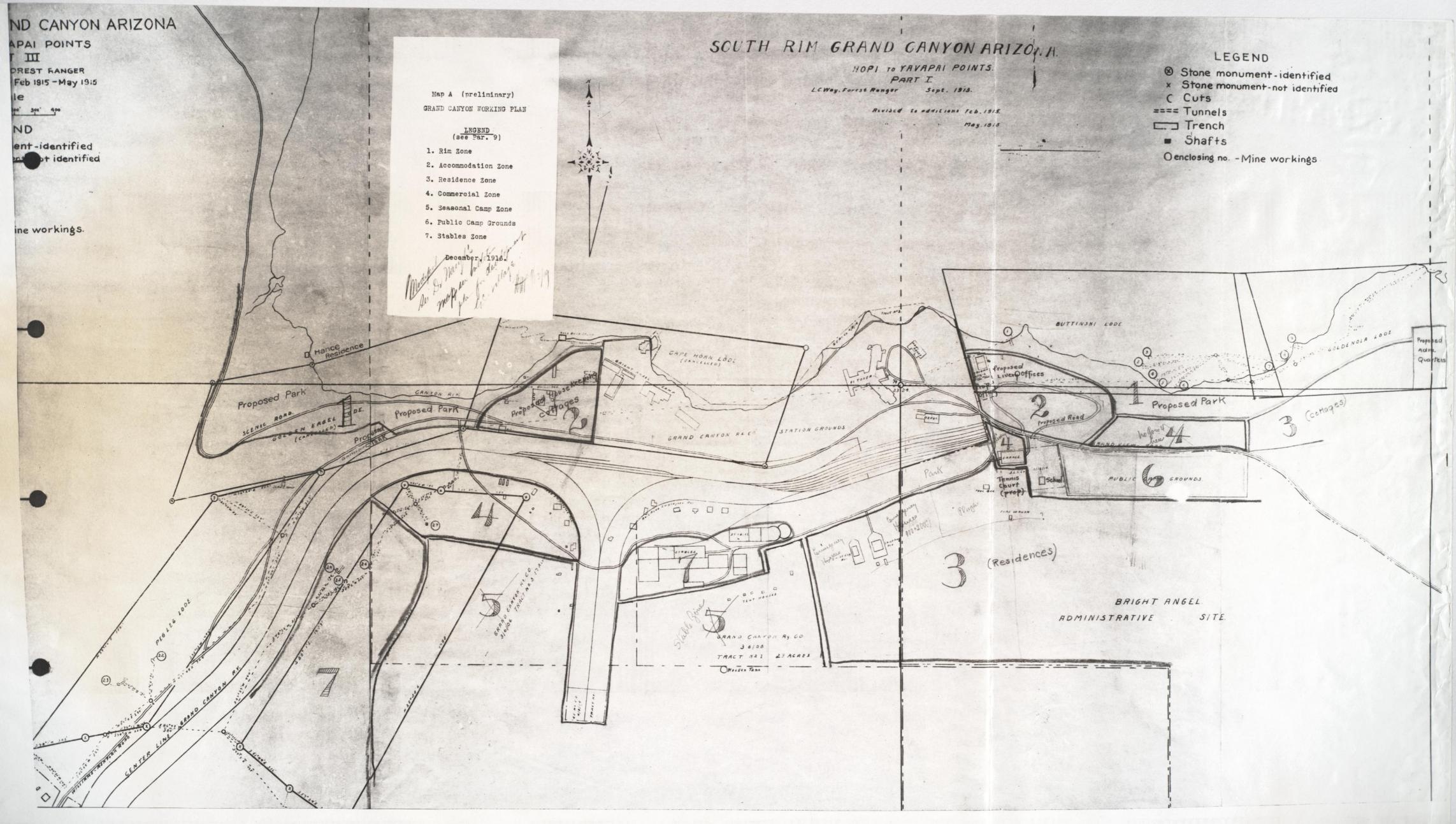
It is suggested that these names are in bad taste. They should be referred to the Geographic Board with the recommendation that the original Indian names be restored. The officer in charge should collect data as to these Indian names.

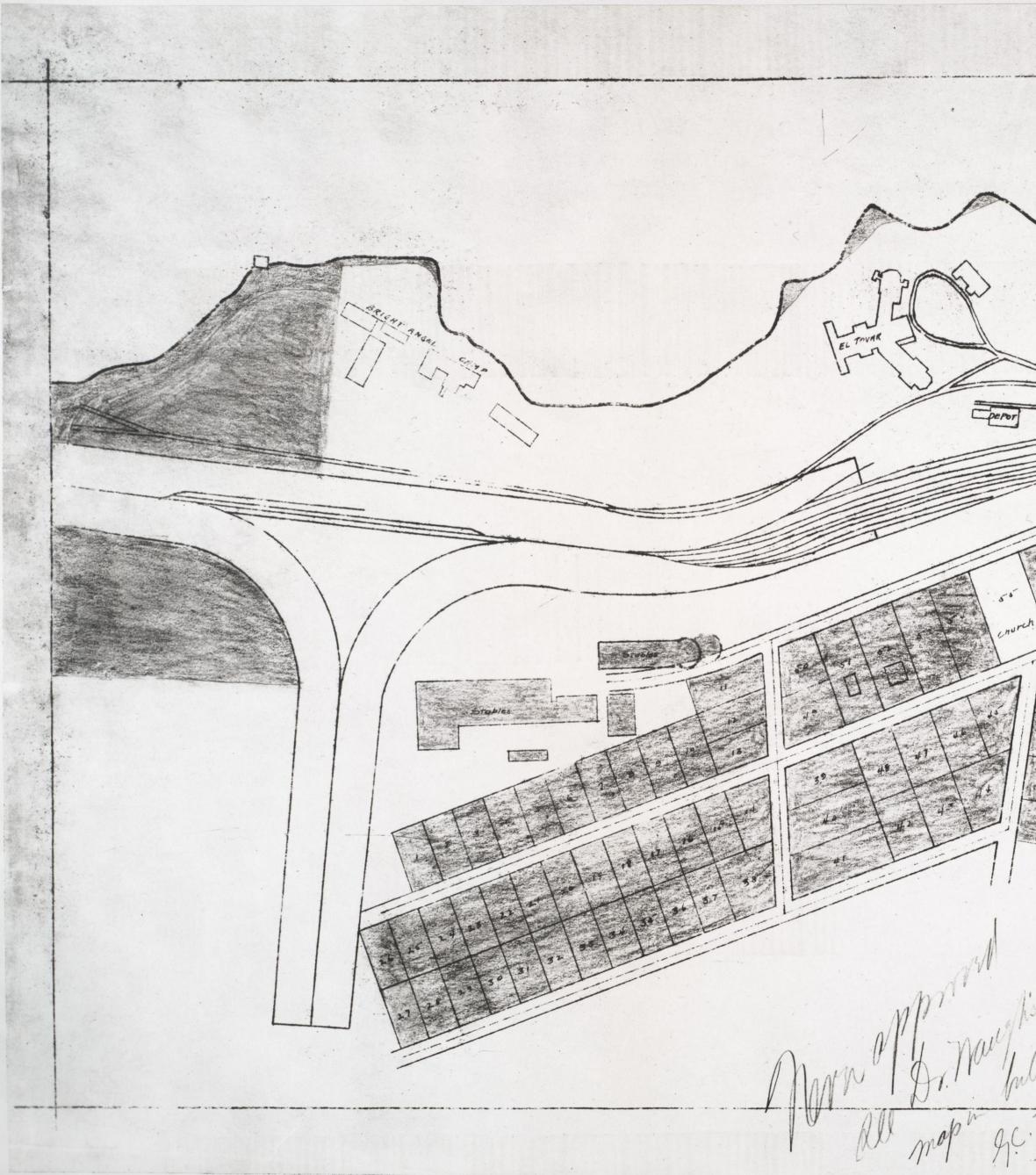
A herd of wild burros, said to be rapidly increasing, is proving a muisance to trail parties and may also be threatening the food supply of the mountain sheep. Under the state law it is unlawful for any individual to dispose of these. However, the State Sanitary Board (letter of February 21, 1916) has stated that it will sustain no objections to their extermination. It is possible that tourists might oriticise the killing of these wild burros. Some prospectors also seem to use them as pack animals when needed. The killing must therefore be handled carefully, but it is nevertheless advisable. The officer in charge should definitely determine the extent to which they are a muisance to tourists and a menace to the mountain sheep, and if either is found to be true in any degree, the extermination of these burros should again be taken up with the Biological Survey.

The Game Refuge has so far been a refuge principally in name. The Supai Indiana regularly kill deer, and they have possibly killed some sheep also. In the future it should be considered that the value of the game in this refuge is so great

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GRAND VIEW ROAD PUBLIC CAMP GROUNDS School 96 97 G GRAND CANYON WORKING PLAN Map B (preliminary) Showing Proposed Lotting of Zones 3 & 5 Surveyed 7/3/16. Traced 12/15/16 by O. N. Powell, H.E. Scale 1" = 200'

SUPPLEMENTAL PLAN

FOR DEVELOPMENT OF THE

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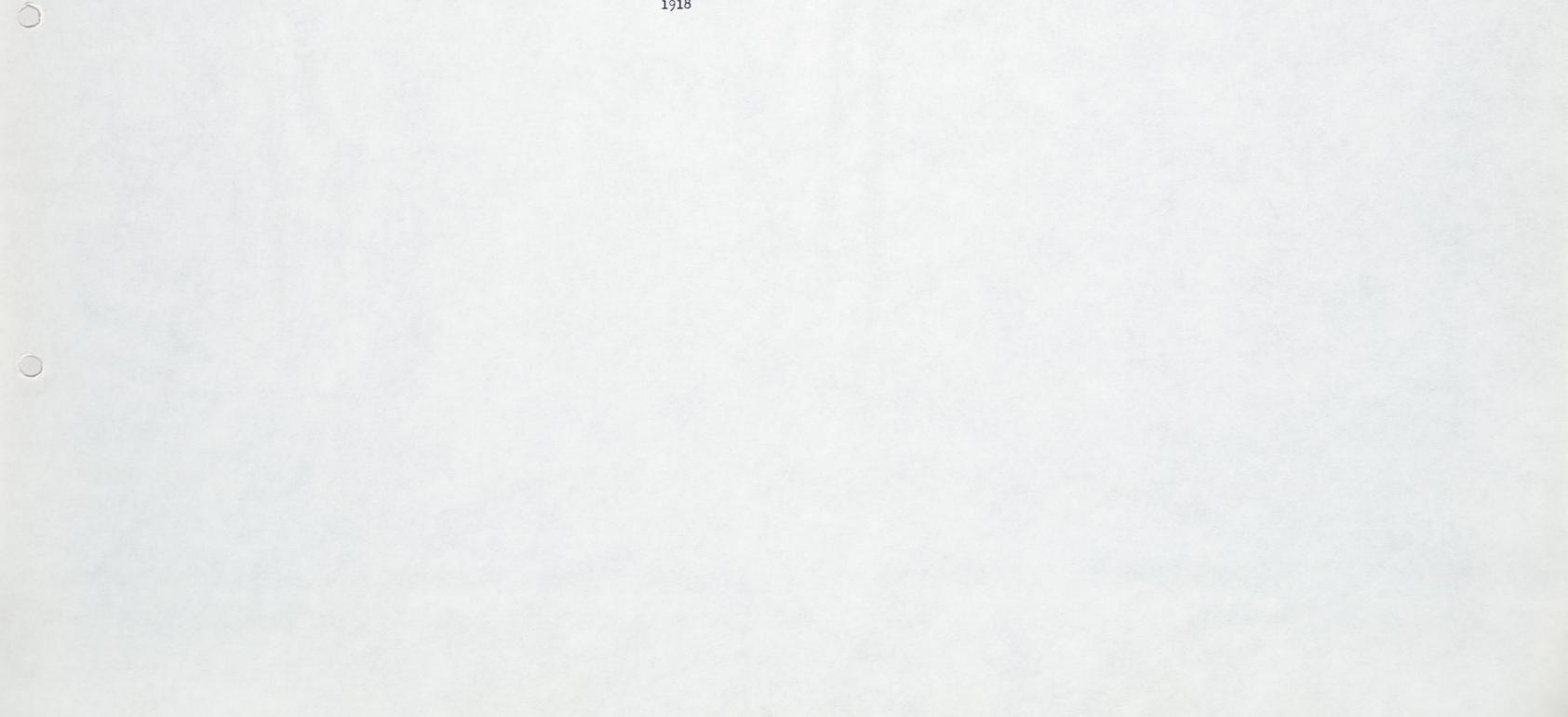
VILLAGE OF GRAND CANYON

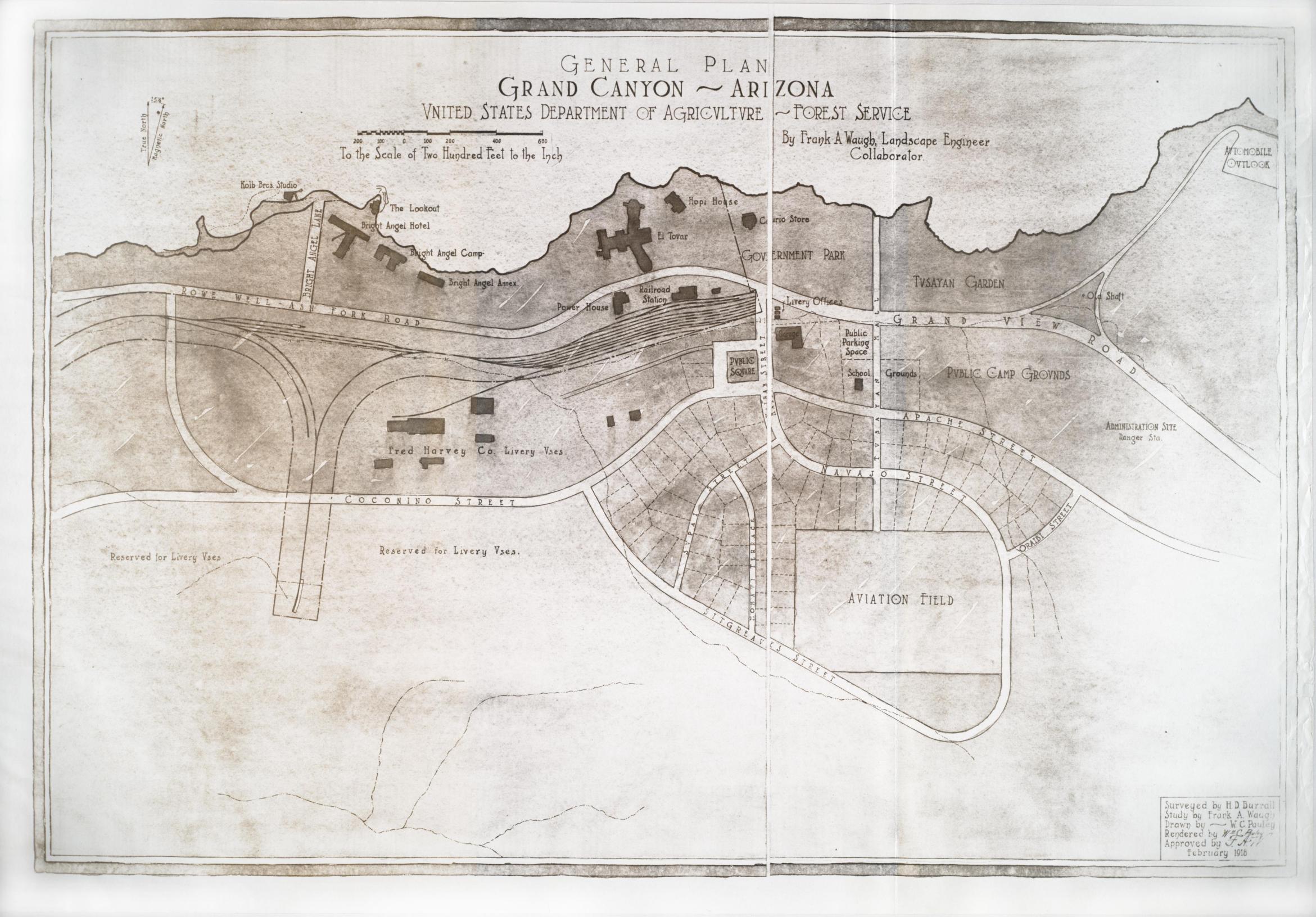
by

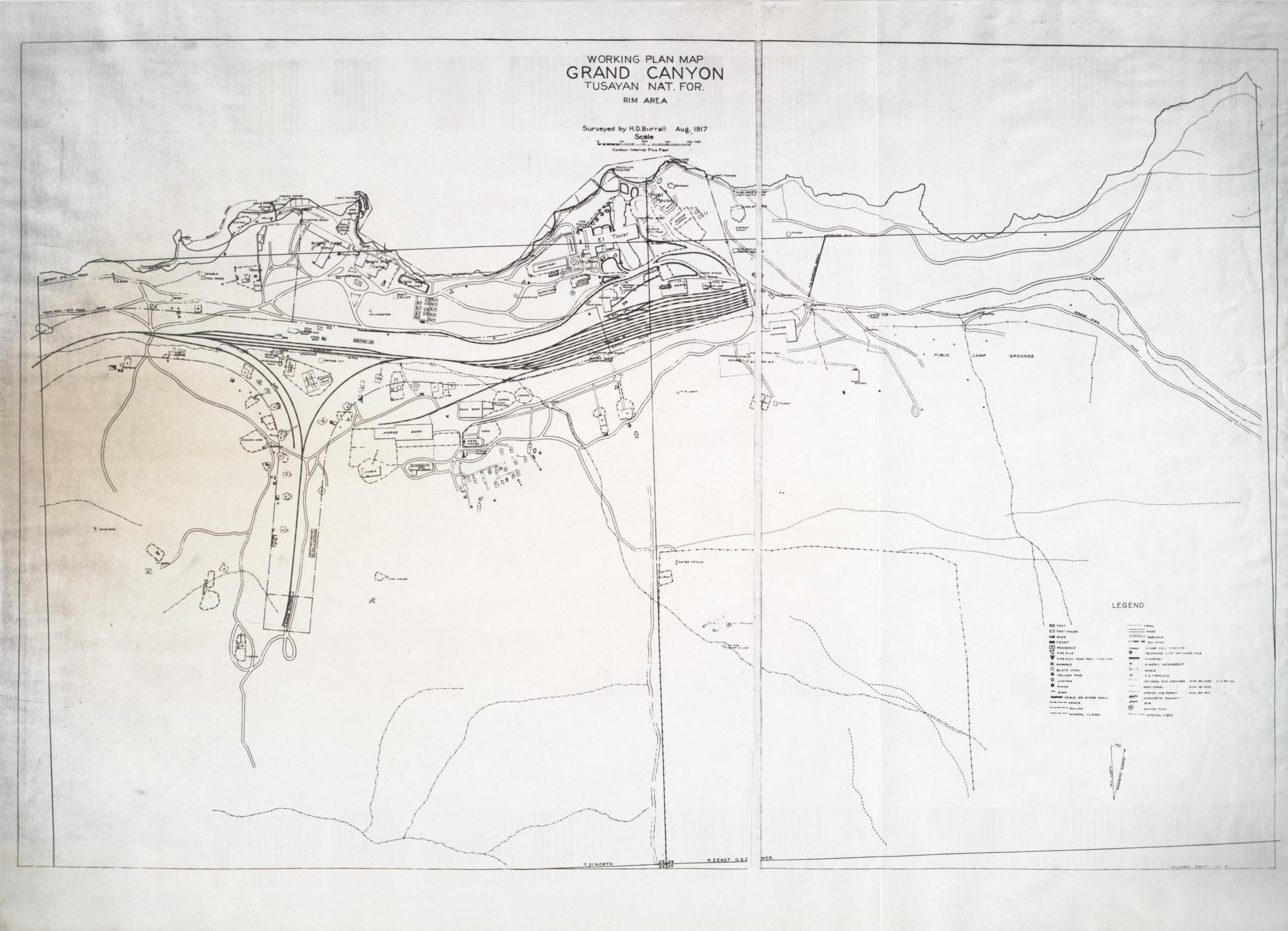
Frank A. Waugh

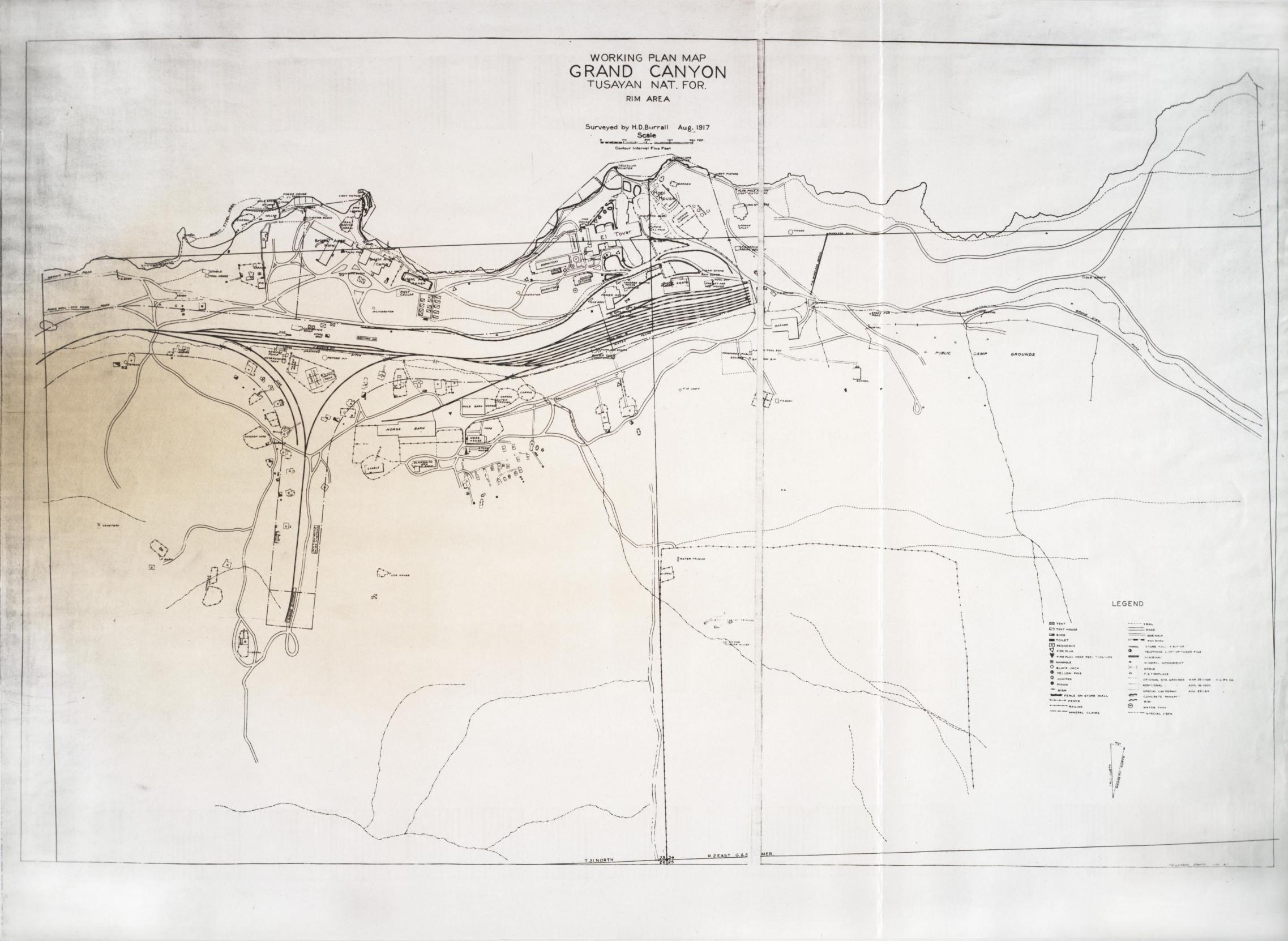
Collaborator

1918









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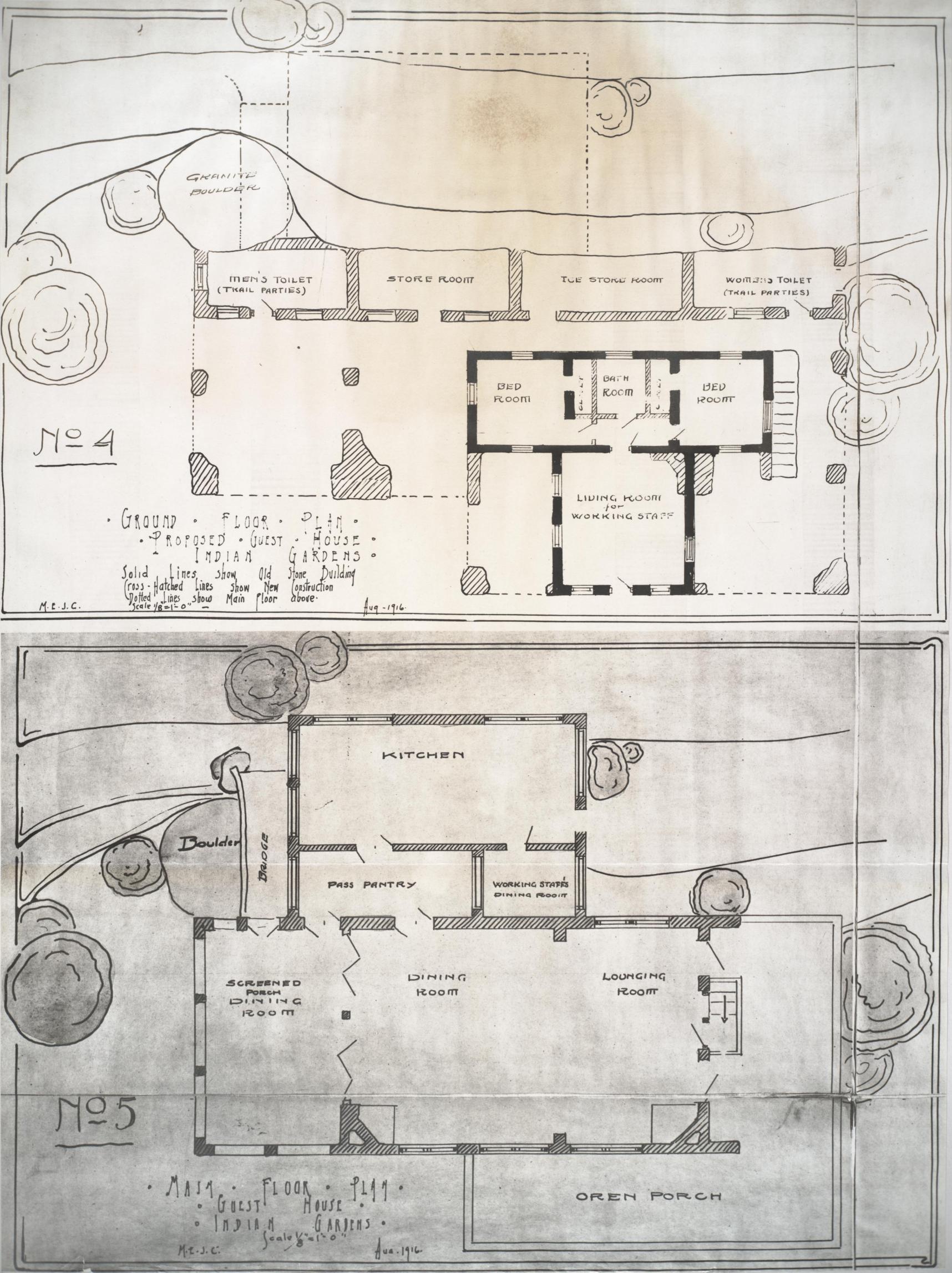
RIM AND INDIAN GARDENS

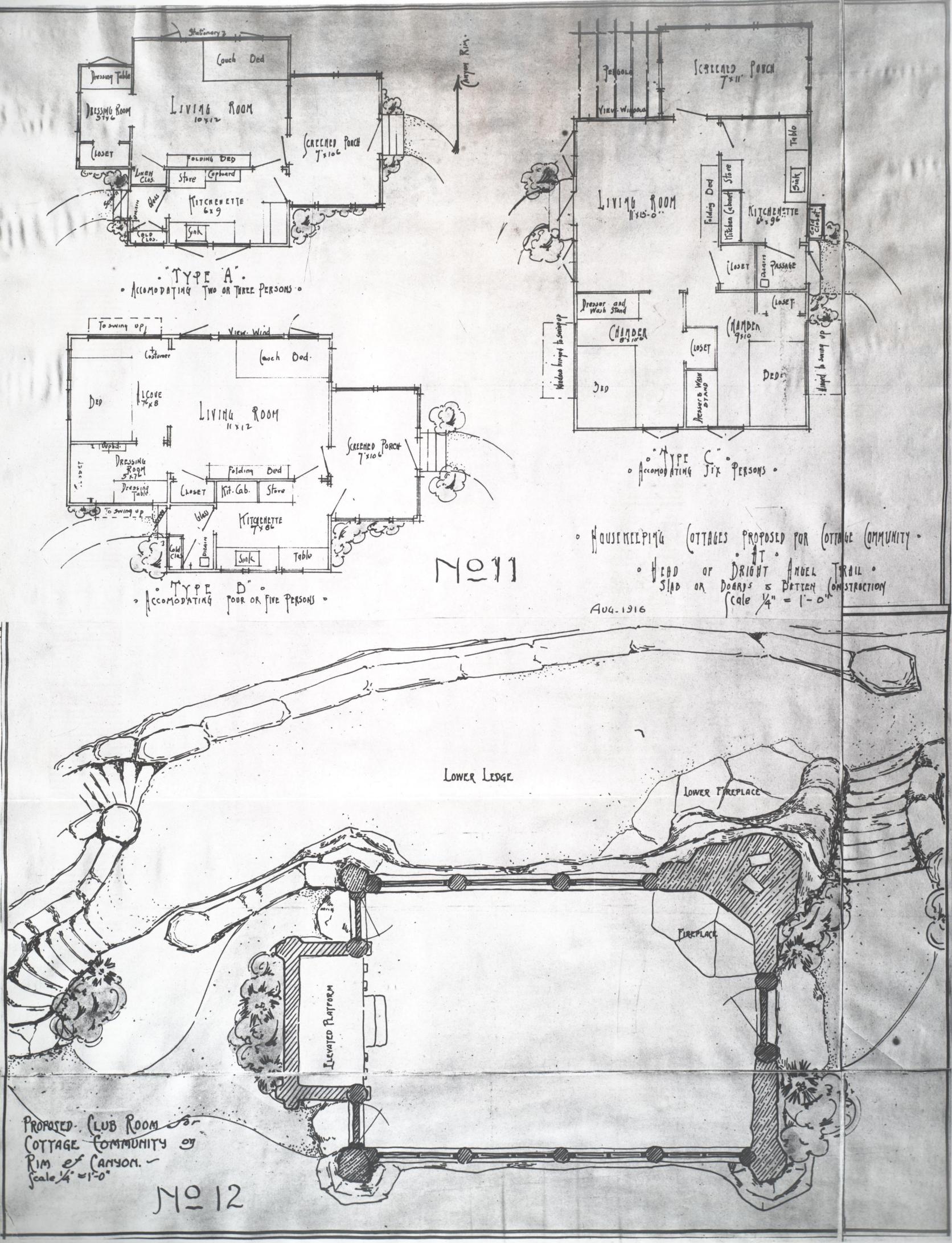
PROPOSED DEVELOPMENTS

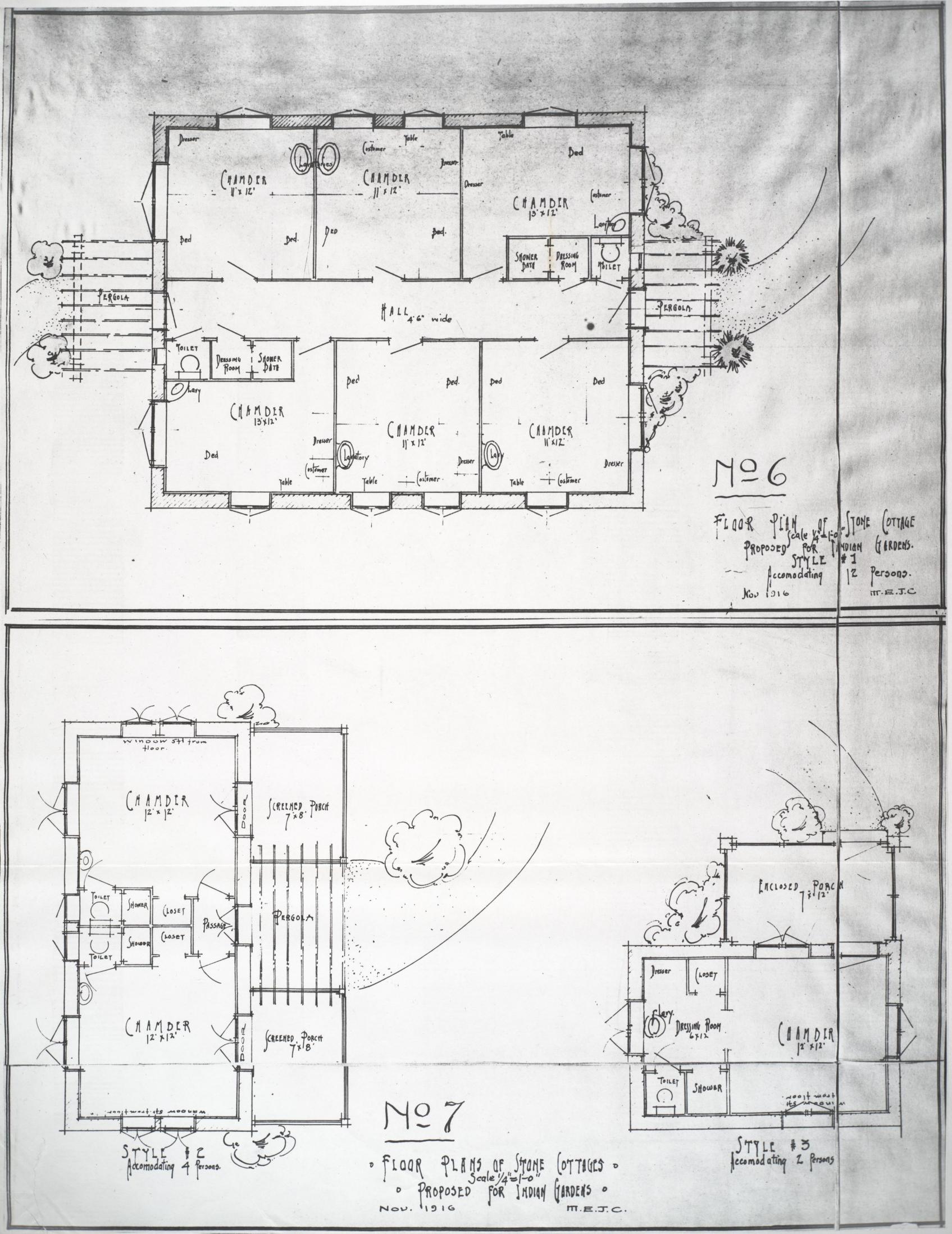
PLANS AND SKETCHES

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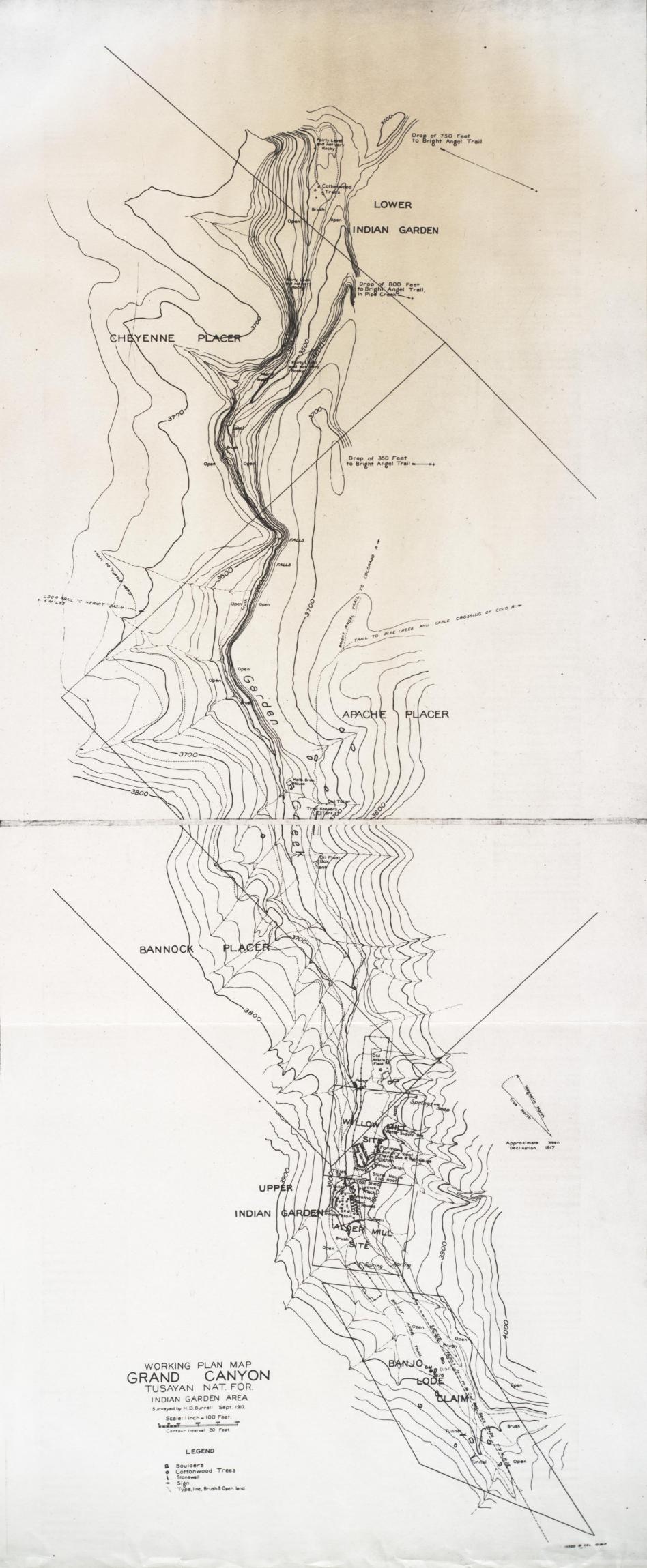


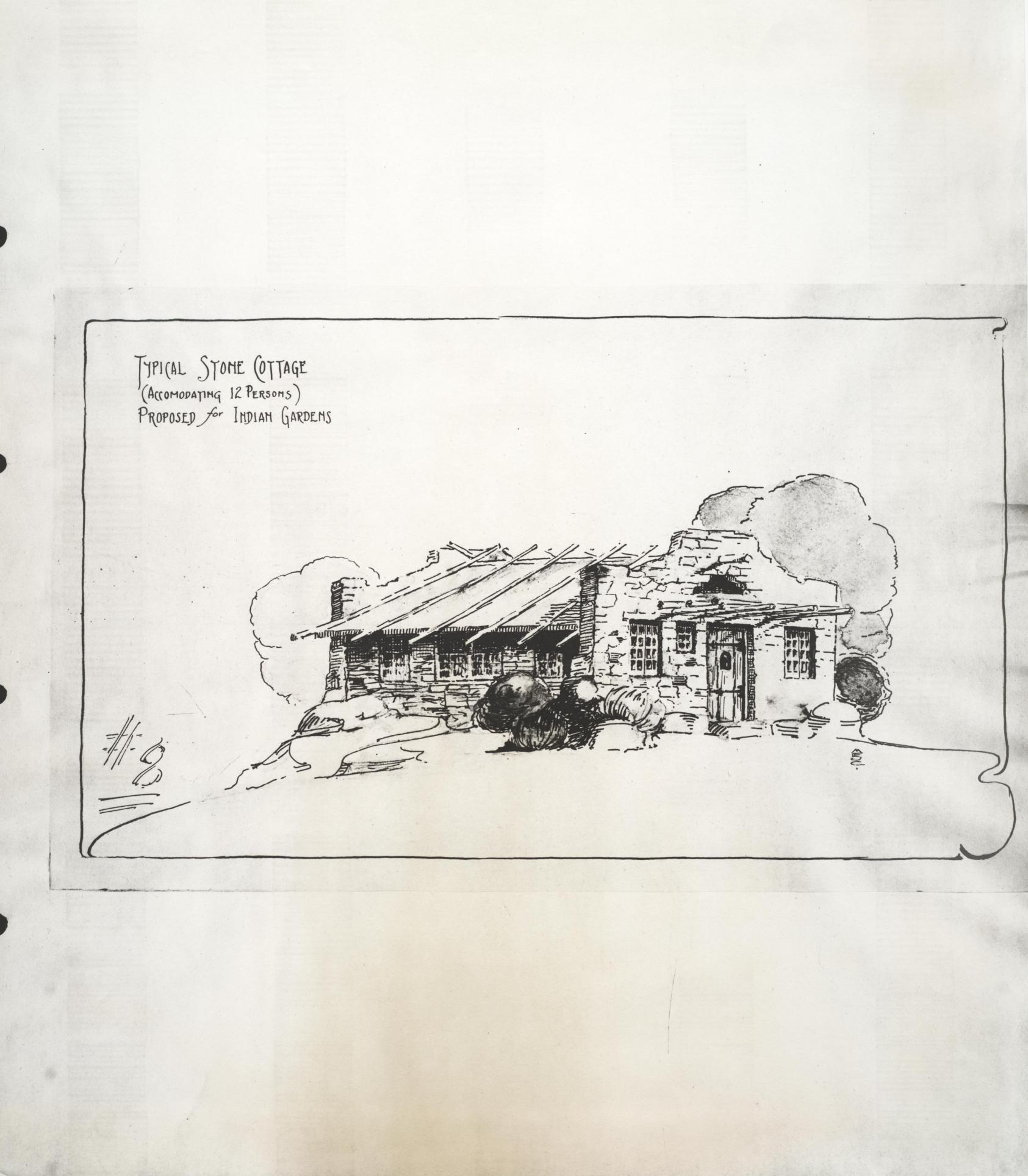


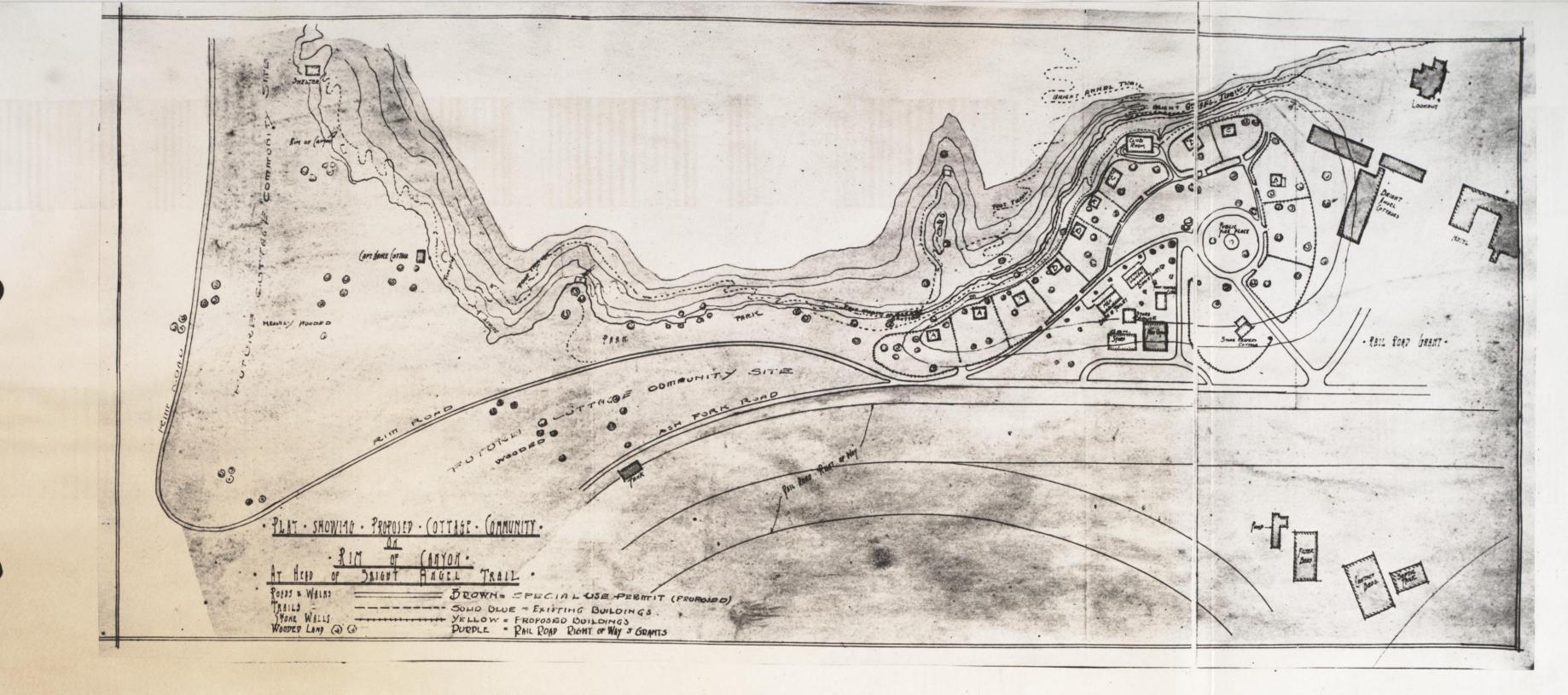




GUESTHOUSE INDIAN GARDENS - G.C.









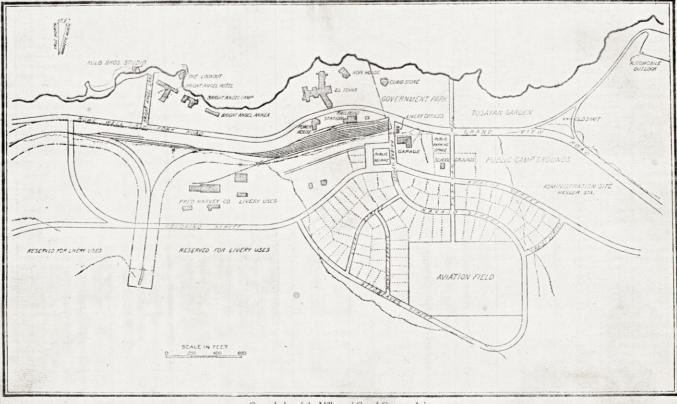
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A Plan for the Development of the Village of Grand Canyon, Ariz.

> By FRANK A. WAUGH Collaborator

1918

U. S. Department of Agriculture Forest Service



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General plan of the Village of Grand Canyon, Ariz.

A Plan for the Development of the Village of Grand Canyon, Ariz.

O^N THE southern rim of the Grand Canyon of the Colorado in Arizona stands the little village of Grand Canyon, the terminus of the Grand Canyon Railway, a subsidiary of the Atchison, Topeka & Santa Fe Railway, and the main gateway to the wonderful scenery of the present National Monument. This village has grown up under severe physical handicaps, serving the single purpose of assisting tourists to reach the famous and unique scenery of the canyon below and beyond.

Like most villages this has had a fortuitous and largely undirected growth. In the present instance, however, there have been causes operating to discourage the customary organization of local self-government, chief among them being the transient character of the local ties and interests of a constantly changing personnel. This lack of organization has kept away from Grand Canyon even that small measure of official influence which usually directs the affairs of new communities, including the problems of physical growth, such as the location and improvement of streets, the subdivision of land into building lots, etc. The case of Grand Canyon is in many ways abnormal.

NorE.—During the progress of this work I have received the most cordial assistance from many members of the Forest Service. My grateful acknowledgements are due to all, and especially to Assistant Forester E. A. Sherman, Assistant District Forester Frank C. W. Pooler, Assistant District Forester Don P. Johnston, Forester Examiner Aldo Leopold, Forest Examiner Harrison D. Burrall, and Forest Supervisor T. Earl Wylder in charge at Grand Canyon National Monument.

Special mention should be made of the painstaking and illuminating study of Grand Canyon problems embodied in the "Grand Canyon Working Plan" (revised to Mar. 17, 1917) by Forest Supervisor Den P. Johnston and Forest Examiner Aldo Leopold. I have found this report of substantial value in the preparation of the present plans.

The Problem

H^{OWEVER,} the territory in general, with certain material exceptions, belongs to the Government, has been erected into a National Monument by the President of the United States under the authority of an act of Congress, and is under administration of the Forest Service. Thus the Forest Service becomes responsible in a large degree for the growth and welfare of the community. And in view of this responsibility the Forest Service desires to provide for the community the best physical equipment within its power and the best form of administration available.

The present study is, in short, an attempt to develop a working plan for the physical growth of the village of Grand Canyon.

Physical Conditions

At present the village has a permanent population of 300 to 400, with an average visiting population of about 200 tourists.

A schoolhouse has been built and a good school organized, with an average attendance of 30 pupils. There is a post office. Religious services are held regularly, but there is no church building. There are no stores of the usual sort where household supplies can be bought. There is no recognized cemetery. Indeed, the village lacks many of the physical and social organs usually considered indispensable.

The Santa Fe Railway with its station, the Hotel El Tovar, and the Bright Angel Camp constitute the principal equipment for the accommodation of visitors, and around these the whole community revolves. A very few enterprises not under direct control of the railroad company cater to the individual needs of the tourists.

The land on which this village has grown up is rolling and generally well timbered. In the ravines are many good specimens of western yellow pine; on the higher portions is a heavy growth of piñon and juniper.

Conditions of the Problem

Certain quite unusual conditions enter into this problem. These may be stated as follows:

The village is wholly dependent on the Grand Canyon and on the tourist traffic which it invites. Without the canvon

Purpose

there would be no tourists; without the tourists there would be no railroad entering here; without the tourists and the railroad there would not be

a dozen permanent residents in the vicinity. This village has absolutely none of the usual business on which the growth of the ordinary town depends.

The town site faces abruptly upon the colossal scenery of the Grand Canyon-a landscape of the most intoxicating sort. If

Physical

landscape ever has any effect upon individuals and communities, certainly such influences ought Character to be manifest here. It is worth noting that persons most familiar with the country all assert

that these influences are powerful and effective. Usually they say that "the canyon gets on people's nerves."

A more direct and practical control is exercised by the complete lack of water supply in the neighborhood. At the present time the entire ration of water for all purposes (with negligible exceptions) is hauled in by the railroad over a distance of 120 miles. It is doubtful if another example of this kind of water supply on the same scale exists anywhere in the world.

The absence of running water naturally makes impossible the introduction of the usual sewerage system, thus presenting unusual problems of sanitation.

Another quite unusual condition is found in the Government control of the land. With certain exceptions, mentioned below, the land belongs to the United States and can never become the property of the persons using it. On this territory official control

Official Control

is supreme, and may be extended to considerable lengths, as, for example, to the regulation of business and the censorship of architecture. This Government control is for the present exercised

by the Forest Service of the Department of Agriculture; but there is a general expectation that the administration is soon to pass to the National Parks Service of the Department of the Interior. The imminence of this transfer has its own important bearing on the entire study, adding, as it does, an element of uncertainty to the whole situation.

The most serious exception to the Government ownership of the land in this territory is the tract of about 20 acres included in

Railroad Holdings

the right of way for railway station grounds of the Atchison, Topeka & Santa Fe Railway Co., and used by them chiefly for railway terminal and hotel purposes. Owing to the strategic location of this

tract, and to the business advantages enjoyed by the railway company, the latter exercises a large control in the physical development of the community as well as in all business and social developments. It is only fair to add that the Atchison Railway and its subsidiary organizations have shown a reasonably liberal tendency in the management of their enterprises and, generally speaking, an excellent spirit of cooperation in the plans of the Forest Service.

In the territory occupied by the village of Grand Canyon there are several important tracts of land encumbered by unperfected

Mining Claims

mining claims. For the present these claims constitute a troublesome factor in the situation. It is hoped and expected that some or all of these claims can be extinguished within the next few

months. Under the terms of the present congressional authority constituting the Grand Canyon National Monument further mining claims can not be intruded into this territory.

Solution of the Problem

General Principles

IN APPROACHING a solution of the problem, under the conditions stated, it has been thought necessary to emphasize four general principles, as follows:

1. We are providing for a small community—one which, so far as we can see, has no commercial or industrial future, and one which in all human probability, will never have any extended growth, and which will never assume the character of a normal town.

2. Existing social relationships are unsettled and abnormal, and every endeavor should be made to introduce more natural social contacts, and especially to promote a social unity among the residents of the town.

3. The entire village, at its best, is merely an accessory to the canyon. It is only one, though the principal, entrance to the park below. It must therefore contribute chiefly to the needs of tourists, and must in all ways facilitate their acquaintance with the canyon itself. In particular it seems desirable that every endeavor should be made to assist in the circulation of tourists into the canyon and along the rim.

4. The village is there because of the visitors who are drawn to see one of the wonders of the world, and it is the interests of the public, not the interests of this little local community, that must be given primary consideration by the Government. For the same reason the village should not be planned on the supposition that it is to work out its own salvation. The Government is responsible to the public, trustee for the public, in effective control of the situation through land ownership, and must decide, not advise.

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The town is more of a public utility than a social group. Therefore every part of the village plan must first submit to the test of being consistent with the interests of the visiting public and must be limited by that requirement.

The Physical Plan

It is now possible to present the various items of the physical plan in the light of the conditions set forth and of the principles just stated.

The present town is almost without form. The miscellaneous buildings are scattered at random over the land. There are no

The Plaza

streets. Two country roads have wandered aimlessly into the territory, where they seem to have

lost their way. They meander helplessly here and there without reaching any particular points and without serving as boundaries to any blocks of land. In order to secure a physical center of organization I have planned the plaza. This is to be an open public square, as near the natural physical center of the territory as it is possible to come. Around this quadrangle there should eventually be grouped the principal public buildings. It should thus serve literally as a civic center, since here the civic or, community interests would center.

If there should ever be a Federal building in the town (for which a bill has already been introduced in Congress), it should stand on the south side of the plaza. A post office there will certainly be; and if this is accommodated in a separate building, it should occupy a similar position. More probably it will be placed in one of the stores presently to be mentioned.

A church will be needed by the town and can probably be provided within the next few years. It is much to be hoped that this will be an interdenominational and genuine community

Village of Grand Canyon, Arizona

enterprise, and that one church may be enough. Such a community church should occupy a prominent place on the plaza, and a special lot has been reserved for it.

One of the most desirable articles of equipment at Grand Canyon is a community house or neighborhood building. Such a building should provide for a wide range of uses—the holding of public meetings, lectures, dances, movies, etc. It might serve as a public library, reading room, and clubroom. It might be equipped with billiard tables, bowling alleys, or other means of wholesome amusement. It should be provided by the cooperative effort of all interests at the canyon, being the genuine expression of community endeavor.

It is planned to place any stores, shops, and other business houses on the eastern and western sides of the plaza. A substantial and handsome garage already marks the northeast corner.

In the rather improbable event that more stores and business houses are some time required than can be accommodated on the lots now assigned to this purpose, extension can be secured in the normal manner by bringing into use some of the residence lots in the immediate vicinity.

On the north side the plaza will be faced by the railroad station. Along the south side of the railroad tracks, extending from the present garage westward to the company corrals and stables, runs a fringe of good timber, nearly all healthy young yellow pine. It is intended that this parking of natural timber shall be preserved and protected. At the same time the present reservation of this strip will make it possible to secure a moderate increase of trackage for the railroad if such a need should become pressing at a future time.

In its present estate the little square of land set aside for the plaza is dignified by the presence of a number of vigorous and beautiful yellow pines. The tract is typical of the best of this $75061^{\circ}-18-2$

kind of forest scenery. It is hoped that this character may be indefinitely preserved, and that the village of Grand Canyon may ever bear at its heart the sunny pleasant picture of the Arizona forest rather than the commonplace "ornaments" of the ordinary town. A little sympathetic effort should protect the present pine trees and plant others to follow them. I would recommend that the undergrowth be cleared away, and that as far as possible a grassy parklike surface be maintained.

Under no circumstances should any sort of building be permitted within the plaza; and this most positive recommendation is intended to cover every proposal, no matter how small. All monuments, band stands, fountains, and other structures of whatsoever sort should be absolutely interdicted.

Street Plan

The village is entered from the east by Grand View Road. This road is considerably used by automobilists coming from the east and from Flagstaff, and still more by tourists visiting Grand View and Desert View. The roadway has benefited by considerable local work, mostly given by the railway company.

From the west the Ash Fork Road enters, being joined at the outskirts of the village by the Rim Road. The latter road has been constructed by the railway company under Forest Service permit and is maintained by local cooperation.

These existing roads have been adopted bodily into the plan; also a short link of road crossing from north to south at the end of the railroad trackage and running thence westerly to the company stables. This latter section will supply the northern boundary of the plaza. New streets are to be laid out on the east, south, and west sides of the plaza; and these street lines will be continued to the east, south, and west, opening up the territory which seems to be most available for residences.

Village of Grand Canyon, Arizona

Other details of the simple street plan will be better understood by reference to the accompanying map.

It is the design to have these streets very simple and informal in character. For this reason the plan departs more or less from the usual straight lines. For the same reason the streets vary somewhat in width. The actual roadway should be much narrower than the allotted street space, and should in all cases be developed in a manner to save every likable tree. Yellow pines should be spared by preference, but no good piñon or cedar should be thrown away. These scattered trees will do more to preserve and accentuate the natural informality of the surroundings than any stately rows of street trees that could be grown beside full irrigating ditches. It should be clearly conceived that these streets together with the plaza are to give a distinctive character to this small village, and that that character is exemplified in the neighboring forests along the canyon rim and in the Tusayan National Forest through which we approach the town.

Lot Subdivision

In accordance with the primary intent toward informality of design, no rigid uniformity has been adopted in the subdivision of the space into blocks and lots. Rather has it been the desire to present a reasonable variety in size, form, and aspect of building lots. In general the residence lots are comparatively large. Since land is abundant and cheap, and since it seems important to avoid all appearance of crowding, one-quarter acre has been adopted as the ideal size for residence lots, though considerable variations have been permitted.

It is expected that these lots will never be sold, but will be leased under special-use permits by the Forest Service and its successors.

Yavapai Walk

It has already been stated as a governing principle of our study that we should circulate tourist visitors as widely as possible along the canyon rim. The opportunity for such dispersion of visitors seems to be more promising toward the eastward than in the opposite direction. Accordingly I have endeavored to present as many attractions as possible in this territory. The specific features incorporated in the plan are (a) Yavapai Walk, (b) Yavapai Point Outlook, (c) Government Park, (d) Tusayan Garden, and (e) the Automobile Outlook.

A fairly good footpath to Yavapai Point already exists. This, however, should be considerably improved, and in some sections relocated. In its final location this walk should touch the rim in about ten points only. These points should be carefully chosen to give the best views of the canyon and to secure the greatest variety of prospect. The intervening sections of the walk should fall back from the rim, and should run on easier ground among the piñon and cedar trees, thus supplying the desirable intervals of visual and emotional recovery between the excessively stimulating views into the canyon.

Cement walks should not be built, at least not beyond the section now occupied by 'Mr. Verkamp's store, but the footway should be cleared and smoothed just enough to make walking safe and easy for women and children.

Rustic benches should be placed at convenient places along this walk, especially at Grandeur Point, where several good seats should be provided.

Yavapai Point Shelter

Yavapai Point is the most popular outlook within the reach of the average tourist. Women, children, and others for whom the other canyon trips are too strenuous, commonly walk out to

Village of Grand Canyon, Arizona

Yavapai Point. These excursions should be distinctly encouraged; and to this end the improvement of the walk will contribute. The needs of foot passengers will be further served in a very substantial manner by the construction of a good shelter at the point. At present the point is much exposed. When the sun shines on the white limestone during the Arizona summer days the place is blinding, dazzling, burning hot. On days when the sun does not shine the visitor suffers the inclemencies of a driving wind or possibly of rain or snow. Nearly all walkers who use this route wish to rest at the point, as well as to linger for the enjoyment of the view. An adequate shelter would certainly be much appreciated.

In this particular spot I would recommend a treatment of the shelter building somewhat different from that wisely adopted at other points in this vicinity. Instead of trying to make the building invisible I would make it enter frankly upon the view from the rim near El Tovar. Without being obtrusive it might be so plainly visible from the neighborhood of El Tovar that every visitor would notice it. Even at that distance it should present an attractive appearance. It should interest the visitor. It will thus appear to offer a natural objective for a walk, and should promptly inseminate the desire to make the excursion thither. The detailed design for such a structure can easily be provided whenever needed.

Government Park

For many reasons I have felt it necessary to provide a reserved zone in the territory designated on the maps as Government Park. Other sections of the canyon rim in the region where tourists foregather have been in various degrees alienated from Government control. There should be a substantial zone left free from all encumbrances upon which the public shall have unlimited freedom of action and the administration an undiminished jurisdiction.

This tract will also constitute an "official" approach to the canyon. It offers a route by which the casual visitor may pass directly to the canyon rim without crossing restricted ground or becoming beholden to any persons or powers. While the value of this consideration may seem more psychological than practical, some future shift of circumstance may raise it to a very serious level.

I have had further in mind the possibility that this area might some day supply the opportunity for developing an artistically effective introduction for the canyon view. Such a stupendous landscape really requires some introduction. The approach now used by custom is wholly lacking in all the elements which any landscape architect or other artist might wish to bring to such an overture. I confess that I do not see my way clear to the development of this idea at the present time, but I sincerely trust that at some future day the purpose may be fully realized.

For the immediate future I recommend that Government Park be very simply treated. The outlook along the rim will be preserved and, as far as needful, protected by a rustic stone wall. The native timber back from the rim will be preserved and improved, the dead trees being removed and the whole tract made clean and attractive. Seats will be provided, and any other simple features which may add interest to the space will be introduced.

The principal improvement proposed for immediate construction is a broad, straight walk—Tusayan Mall—rising by rustic stone steps from its junction with Grand View Road and running northward to the rim. This walk should be made dignified and inviting and of sufficient dimensions and importance to suggest that it leads to something worth while.

Village of Grand Canyon, Arizona

On the general plan it may be observed that this Tusayan Mall is shown as continuing southward in a straight line across Grand View Road, Apache Street, and Navajo Street to the projected aviation field. The steepness of the slopes will naturally bar from this right of way everything but foot traffic. Even for this purpose that part of the mall lying south of Grand View Road will not be needed for some years to come. The time may easily arrive, however, should the aviation field develop into a center of considerable interest, when such a public way would be a substantial convenience. The proposition on the plan looks only to such a possible future.

As it appears in black and white upon the map, this southern section of Tusayan Mall cuts in two the school grounds in an objectionable manner. Should the future development of the mall require it, the school ground and playground areas would have to be readjusted in accordance with the changed circumstances. Meantime present arrangements may remain undisturbed.

Tusayan Garden

Just to the eastward of the tract prescribed for Government Park and fronting southward upon Grand View Road is a warm, sunny slope now clothed principally with sagebrush. If the entire space is examined, from the road to the rim, there will be found a rather remarkable sampling of the native flora characteristic of the plateau throughout the neighboring districts of the Tusayan Forest. Early in September I counted over 50 recognizable species of flowering plants upon this area. I am confident that, with even a little trouble and expense, it would be easy to establish at least 100 native species.

My recommendation is that this tract be developed as a very unpretentious botanic garden, devoted exclusively to the local flora. Some very slight pathways along the hillside should make

it accessible to all. The several species should be marked with neat and inconspicuous labels.

Such a garden would require a certain amount of puttering care, but no heavy expense of maintenance should be expected. If some person connected with the local staff of the Forest Service will give the matter some personal and sympathetic attention the garden can be made a most attractive feature. Without such personal and sympathetic care no appropriations of funds will save it.

This garden, where visitors would be able to identify and to learn the correct names of interesting local trees, shrubs, and herbs, would certainly be of lively interest to many canyon visitors. The Tusayan Garden would very soon become one of the stock sights of the place. It would offer another interest to visitors, and would serve our fundamental purpose of dispersing them farther along the rim.

Automobile Outlook

Under present conditions the canyon rim can not be conveniently reached by automobiles except at a very few points. To remedy this situation and thereby provide another feature of interest along the rim eastward, I have proposed the development of the Automobile Outlook at a point somewhat northeast of the Tusayan Garden. At the point selected the canyon wall drops sheer for more than 1,000 feet, and through the resulting gorge the view opens unobstructed to the Indian Gardens below, wide reaches of the mesa and to the peaks and "temples" beyond. The view is one of the most impressive in this vicinity.

The rim would require protection here by a suitable rustic wall and a few seats should be provided. Just back of the rim a large parking space is planned where the automobiles of a visiting excursion could be acccommodated. This parking space and the Automobile Outlook are easily reached by a spur road running up from Grand View Road along a small ravine.

Buttinski Mine Shaft

Near the point where this automobile spur leaves Grand View Road, and at one corner of the Tusayan Garden, is the still open shaft of an unworked mine. It is hoped and expected that the mining claim will soon be invalidated; but it would be a wise conservation of "local color" if the old shaft could be preserved.

Attractions Westward

Visitors should also be encouraged to perambulate the rim to the westward. Two specific attractions already exist in the "Lookout" on the railway property and the Kolb Bros.' studio.

The head of Bright Angel Trail also serves as a mild interest to some visitors, and might be made still more attractive by simple means.

In part to emphasize the Bright Angel Trail and in part to provide a permanent public right of way between it and the present highway, I have recommended in my plan the reservation of a strip, to be called Bright Angel Lane, approximately 50 feet wide, running along the western line of the railway property from Ash Fork Road to the head of the trail on the canyon rim. This land lies in the present Cape Horn claim, which claim it is hoped soon to extinguish in favor of the United States. By a small amount of work the Bright Angel Trail can be brought up over the rim at this point and its approach shifted to the proposed Bright Angel Lane.

The whole idea of the Bright Angel Trail is alluring in the extreme. The reputation of the trail is widely spread, and visitors knowing of it come to the canyon with their imaginations full of poetry, romance, and adventure. Unfortunately the present approach to the trail is a rude shock to these valuable prepossessions. Nothing could be less poetic or romantic than the path meandering between corrals, farm machinery, blackened incinerators, outbuildings, and through back yards.

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I have personally urged upon the officers of the Santa Fe Railway and of the Fred Harvey Co. that they abandon this present approach and make the most of the new one which I hope will receive immediate development at the hands of the Forest Service.

Interest in the Bright Angel Trail may be further fostered by a more extended use of the facilities afforded at Kolb Bros. studio. There is pending also an application from the Fred Harvey Co. for a permit to build a clubhouse and observatory near the head of the trail which would be kept open for public use.

The same company proposes further to construct a number of small cottages near the rim to be rented to canyon visitors, and to develop a small and picturesque outdoor community in the vicinity of the projected clubhouse. Such a project has my approval in principle, both as supplying an additional interest farther westward and as meeting the practical needs of those who want to see the Grand Canyon.

Even more interesting in its possibilities is the project of the Fred Harvey Co. in connection with the developments just mentioned, to improve a considerable area contiguous to the clubhouse and cottages and lying immediately below the rim. Here it is possible to construct an extended series of paths, outlooks, and resting places, to be open to the public, which might supply extended entertainment to many visitors. These improvements should include the preservation and exhibition of the really beautiful Indian pictographs found in one of the caves under the rim; and I would especially recommend that the Forest Service and its successors take every care to preserve these ancient relics.

Livery Offices

At the present time one permit is pending for a permanent location for a livery office. Other liverymen have in the past desired such locations and similar applications may come forward in the future. The most usable spot for such offices is universally conceded to be the small triangle of land on which the tent office of the Forest Service recently stood, just east of the railway station and south of Grand View Road. I have accordingly set this aside for that purpose in my plan. I would insist that the offices be substantial permanent structures, agreeable to the eye, and that they front squarely westward upon the street, the fronts being carefully placed parallel with the street line, and the offices having an equal setback. The offices should further be carefully located so as to save as many as possible of the good yellow pines on the tract.

The space in the rear of the offices may be used for loading passengers.

Administrative Office

The location already selected for the Forest Service office on which a small building has been constructed does not seem to me altogether satisfactory. At the same time I have not been able to find a better location under existing conditions. In case the proposed Government Park should be considerably developed at a future time, and in case the Verkamp location should revert to the Government, to be added to Government Park, it would seem likely that the administrative office and museum could be given a better position with special reference to this park area. The investment now proposed for the administrative buildings is so small that it does not promise to be impossible to remove or rebuild them on a new site if a commanding opportunity offers later. Or in case a Federal building should be erected as proposed on the south side of the plaza, the administrative offices and museum would naturally be transferred to quarters there.

Ranger Station

The present ranger station, residence of the forest officer in charge, is at Rowe's well, $2\frac{1}{2}$ miles from the administrative office. The arrangement is a source of considerable inconvenience, and there has been much discussion of plans for another location nearer by. The best near-by location in my judgment is to be found on the area south of Grand View Road and just east of the present public camp ground. While I am by no means convinced that a change from Rowe's well to this locality is desirable, all things considered, I am clear that the transfer may be much more important under other circumstances at some future time. I would therefore recommend that the tract described be reserved for administrative purposes, having in mind the possibilities of a superintendent's residence and other conceivable contingencies.

Automobile Parking Area

There now exists an urgent demand for a small parking space in the near vicinity of the railway station, the hotel, and the rim where automobiles may be safely left for a few hours while visitors are taking meals or viewing the canyon. A convenient space for such parking is offered just south of Grand View Road, west of the public camp ground and east of the livery office area. Here automobiles would be safe because always in full view, and they would be convenient to the public garage.

This assignment of space also has the advantage of quick convertibility, for the tract can readily be used for some other purpose when changing conditions bring new requirements to the fore.

School Grounds

In designing the new streets and subdivisions of lots I have had in mind the necessity of keeping ample space for the school grounds. While the space now allotted is enough for present needs, it may be desirable to allow for further school enterprises beyond the street to the southward. I have particularly in mind the possible need for a baseball diamond. Other requirements may be discovered at any time, and it would seem unfortunate for a school to be hampered for land in a territory where this commodity is so plentiful and cheap. Should the proposed Tusayan Mall develop into an important thoroughfare at some future time (see map facing page 3), the school grounds as at present laid out would suffer materially. As there would certainly come at the same time the demand for a larger school building, it would seem that the best way to meet such a situation would be to remove to a new site. As a better location can be found farther east, this contingency may be faced without misgivings.

For the time being the pupils of the public school will probably be best served with a liberal supply of simple play apparatus, such as swings, teeters, slides, bars, giant stride, etc. These can be made by the pupils with the help perhaps of the forest ranger. I have discussed this matter with Mr. T. Earl Wylder, now in charge for the Forest Service, and believe that all requirements can be met.

Livery Stable Zone

The best predictions which we can now make give the livery service a large part in the accommodation of canyon tourists for many years to come. The stables now used by the Fred Harvey Co. are therefore regarded as a permanent feature of the community equipment and are provided for in their present position with room for expansion southward.

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The possibility that other operators might need stables has also been kept in mind, and a space for such stables has been reserved west of the present railroad Y.

Cemetery

If Grand Canyon comes to be a town where people live, it is inevitable that they will also die there. And a cemetery is always a necessary item in a community plan. There have already been several scattered interments in the neighborhood, reminding us that we must not delay to make a more sober and civilized provision against such contingencies.

A pleasant, slightly secluded tract of land, bearing a number of dignified yellow pine trees, has been selected for the town cemetery. It lies to the eastward of the village and north of Grand View Road. It is my expectation to prepare a detailed plan for this tract in the near future.

Aeroplane Landing

It may sound visionary at this time to include an aeroplane station as a part of a community plan. Yet, unless all signs fail, the aeroplane is soon to be a common instrument of daily business and pleasure. My own prophecy is that this situation will soon be with us, and that the aeroplane will early come to play a considerable part in canyon service. Since a reservation for the accommodation of aeroplanes can be made without injustice to any current interest, we may hope that this part of the plan may be passed with nothing worse than a smile. Village of Grand Canyon, Arizona

Special Recommendations

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In conclusion, I have two special recommendations to make upon matters which will have a considerable influence on the future development of the village for which we are now making plans.

The first of these is that immediate steps be taken by the Forest Service to secure an investigation by competent engineers of the possibilities of water supply, of sewerage, and of lighting for the town of Grand Canyon.

The second recommendation is that the administration representing the Federal Government facilitate in every way and at the earliest favorable moment the establishment of some form of self-government for the permanent residents of the town. Usually an American community can be relied upon to organize upon its own initiative, but in this case the individuals forming the community change so constantly that organized assistance appears necessary to facilitate growth and secure stability during the earlier stages of development.

Immediate Improvements-Costs

Some of the specific improvements which ought to be made at a very early date and their cost, as roughly estimated, are as follows:

1.	Improvement of Yavapai Trail, station grounds to Yavapai Point, 2 miles.	\$300
2.	Shelter at Yavapai Point (estimate low)	200
3.	Seats at Grandeur Point	25
4.	Seats, 120 feet of wall, and other improvements at Automobile Outlook	150
5.	Construction of 600 feet of road from Grand View Road to Automobile Out-	
	look, and of parking space	50
6.	Grading grounds on automobile parking space	100
7.	Clearing and grading streets about plaza, approximately 350 linear feet	15
8.	Clearing and rough grading other new streets, approximately one-half mile.	250
9.	Re-forming entrance to Bright Angel Trail	200
10.	Steps and path in Government Park	200



Things To Do At Grand Canyon

Hermit Rim Road to Rest House Hopi Point

Trip

7½ miles west2 miles west along Rim

Distance

Foot, horse, or carriage.

Conveyance

Carriage, saddle horse

Hopi Fire Lookout TowerHopi PointFoot, horse or carriage.(Tower open from May 1 to October 15, 8 a. m. to 5 p. m.)

Yavapai Point

Bright Angel Trail

Bright Angel Trail

Hermit Creek Trail to River and 2 days Hermit Camp

Grandview Point

Desertview

along Rim 5 miles to

11/2 miles east

Saddle mule.

Foot.

7½ miles to river

plateau

Saddle mule.

Saddle mule.

13 miles east 32 miles east Motor.

Entertainment

Moving picture lecture of trip through Grand Canyon by boat at Kolb Brothers' Studio at head of Bright Angel Trail, 5 p. m.

Hopi Indian Dance at Hopi House, 8 p. m.

Curios, Pictures, Etc.

Fred Harvey, Kolb Brothers, Verkamp, along Rim.

Livery

Carriages available from W. W. Bass.

Automobiles, carriages, saddle horses, and saddle mules available from Fred Harvey.

For further information inquire at office of Forest Service.