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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

ZI	ON	NATIONAL	MONUMENT		
A	ND	NATIONAL	PARK		
UTAH					
(Area)					

FILE CODE:

SOUTHWEST REGION

MASTER PLAN NARRATIVE

Volumes I & III

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IMPORTANT

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FROM:

To:

VOLUME I

CHAPTER

MASTER PLAN

OF

ZION NATIONAL PARK

Chapter 1, Basic Information

The Land

The Visitor

Delmer M. Armstrong, Chief Ranger Date Sep. 15, 1964 Name and Title Prepared by:

Certify Accuracy: OKO

Buhanley Date 1/23/64

THE LAND

LOCATION

Zion National Park is located in the heart of the desert and canyon country of southwestern Utah. The Park lies primarily in Washington County but encompasses a small portion of Kane County on the east and Iron County on the north. It covers an area from T38S on the north to T42S on the south, and from R9W on the east to R12W on the west.

ACCESS

Zion National Park is bounded by two major north-south highways, U. S. Highway 91 (Interstate 15) on the west and U. S. Highway 89 on the east. These highways are connected by State Route 15, through the Park. Motorists approaching from the north on U. S. 91 leave the freeway at Anderson Junction, 31 miles from Zion, and those from the south may turn off at Harrisburg Junction, 10 miles north of St. George. These two spur highways meet near LaVerkin for the remaining 22 miles to the South Entrance. Motorists on U. S. 89 turn off on State Route 15 at Mt. Carmel Junction and travel 15 miles to the East Entrance.

A county road leading from Virgin, Utah to Cedar City bisects the Park in the Kolob section in the vicinity of Lee Valley and Cave Valley. Minor roads off of this unpaved road lead to the Lava Point Fire Lookout, Potato Hollow, and some back country trail heads. The county road along the east park boundary permits access to east rim points such as Cable Mountain, Observation Point, and Deer Trap. The east rim truck trail from the East Entrance to Saw Mill Spring is passable only in four-wheel drive vehicles.

Zion is reached from Codar City, Utah during the regular season by motor bus service provided by the Utah Parks Company. Hertz rental cars are available at Cedar City throughout the year. Bonanza Air Lines provides daily flights from Cedar City, connecting with the major transcontinental air lines at Salt Lake City, Utah and Phoenix, Arizona. During the off season, from Labor Day to about June 1, public transportation from either of the two major highways is difficult to obtain.

SURROUNDINGS

Population Centers: Zion National Park is well removed from any large cities, the closest being Salt Lake City, Utah and Las Vegas, Nevada, which are 320 miles and 175 miles distant, respectively. The smaller towns nearby which furnish adequate community services are listed below:

<u>Springdale</u>, Pop. 299: located adjacent to South Entrance, provides motel accommodations, meals, camp supplies, groceries, gasoline, and limited automobile repairs. School through the 6th grade.

Hurricane, Pop. 1251: located 22 miles southwest, providing in addition to the above, medical service, drug store, movie, and towing service. School through the 12th grade.

St. George, Pop. 5,130: Located 42 miles southwest, providing in addition to the above, hospital, supermarkets, major auto repairs, dentists, and a Junior College.

Cedar City, Pop. 7,543: Located 62 miles north, providing all services plus a four year College.

The population of all of these communities have made a rather slow advance over the past five years.

• Characteristics: Zion National Park is a superlative example of the effect of the erosional forces of water, wind, and temperature on the uplift of the Markagunt Plateau resulting in tremendous canyons, towering peaks, arches, and natural bridges. This great phenomenon lies between the alpine forests on the north and east to the Sonoran deserts to the south and west. The climate of the Park strikes a happy medium between the climates associated with these extremes.

Land Use: The lands adjoining the Park are predominantly privately owned, although there are some scattered parcels of BLM lands that are contiguous to the Park. The use of these lands, whether under private or public ownership, is almost exclusively livestock grazing. However, recreational use in the form of hunting and mountain homesites is assuming greater importance each year.

Features of Interest: Southwestern Utah can be truly described as a land of contrasts and is rich in both scenic and historical features of interest. Those areas administered by the National Park Service are as follows:

North Rim of Grand Canyon, Arizona, 125 miles southeast Bryce Canyon National Park, 90 miles northeast Cedar Breaks National Monument, 85 miles north, via Cedar Pipe Spring National Monument, 61 miles south via Kanab Lake Mead National Recreation Area, 206 miles southwest Glen Canyon National Recreation Area, 116 miles east Capitol Reef National Monument, 233 miles northeast Timpanogos Cave National Monument, 295 miles north

Some of the scenic wonders in addition to those listed above are:

Dixie State Park near St. George
Pine Valley Mountains, north of St. George, on Dixie
National Forest
Panguitch Lake, 20 miles southwest of Panguitch
Navajo Lake, 24 miles east of Cedar City
Vermillion Canyon, 3 miles southeast of Parowan
Hieroglyphic Gap, 10 miles west of Parowan
Coral Pink Sand Dunes, 10 miles west of Kanab
Kodachrome Flat, east of Bryce Canyon
Circle Cliffs, 40 miles southeast of Boulder, Utah

The points of historical interest are mostly related to the struggle of the Mormon pioneers to subdue a stubborn land. Some of these are:

Kaiparowits Plateau, north of Bryce Canyon

St. George Temple, St. George, Utah Brigham Young's Winter Home, St. George, Utah Mountain Meadows Massacre Site, north of St. George Hole-in-the Rock, 55 miles south of Escalante Silver Reef, old mining town near Leeds, Utah Old Iron Town, 20 miles west of Cedar City Old Frisco, silver mining town near Milford

Other popular forms of recreational activity include trout fishing in the clear-water mountain streams and lakes to the north of the Park, and each Fall finds a tremendous influx of hunters to take advantage of the fine deer hunting that abounds in the area.

LEGAL FACTORS

Establishment: Mukuntuweap National Monument was created by proclamation of President Taft, July 31, 1909, to preserve what is known today as Zion Canyon. The original proclamation set aside only 15,200 acres which lay on either side of the Canyon.

On March 18, 1918, by proclamation President Wilson added 61,600 acres of land, all in Washington County, and changed the name to Zion National Monument. This addition was for the purpose of including the Great West Canyon and the Parunuweap Canyon in the area.

By the Act of November 19, 1919 (41 Stat. 346) Congress established Zion National Park and included the lands formerly in the monument.

June 13, 1930, Congress approved Public Law No. 351 (71st Congress) which added 17,441.06 acres to the Park.

On January 22, 1937, Zion National Monument was established by proclamation of President Roosevelt. It set aside the colorful Kolob Canyons and parts of the famous Hurricane Fault, notable examples of geologic phenomena to the west and north of Zion National Park. The gross area of the monument was 48,413.61 acres of which 33,920.75 was Federally owned.

An Act to include the area of Zion National Monument within Zion National Park, in the State of Utah, and for other purposes, approved July 11, 1956 (70 Stat. 527).

An Act to revise the boundaries of Zion National Park, approved February 20, 1960 (74 Stat 4) Public Law 86-387 86th Congress S. 713. This revision of the park boundaries added some 1,430.11 acres of public domain and 2,054.99 acres of private land, or a total of 3,485.10 acres. This revision added land in the Kolob around Lava Point, Firepit and Spendlove Knoll areas, Taylor Creek area and in the vicinity of the town of Springdale.

Legal Provisions: One grazing permit No. 14-10-345-2 to A. P. Spilsbury for 85 cattle for 30 days is still in effect. This permit will be renewed annually for his lifetime. It covers the areas of LaVerkin and Willis Creek and is used as a spring and fall driveway use to the Upper Kolob area. No prospecting, hunting or mining is permitted.

An Act of May 28, 1928 (45 Stat. 787 Ch. 818) for the Relief of the Town of Springdale, Utah to convey through such piping facilities as may be necessary for domestic and other uses within the limits of said Town of Springdale, Utah water from certain springs in the Zion National Park, Utah located in Sections 17, 22 and 27, T41S, R10W, SLM.

Public Law 122 - 78th Congress approved July 8, 1943 amending Act of May 28, 1928.

Special Regulation, Code of Federal Regulations Title 36, Chapter 1, Part 6.3(f). No fee shall be charged residents of Washington and Kane Counties, Utah or residents of that part of Coconino County, Arizona lying north and west of the Colorado River, entering Zion National Park in the conduct of their usual occupation or business.

Title 36, Code of Federal Regulations Chapter 1, Part 7.10(a) Limitation of load, weight and size of vehicles on roads and through the tunnels.

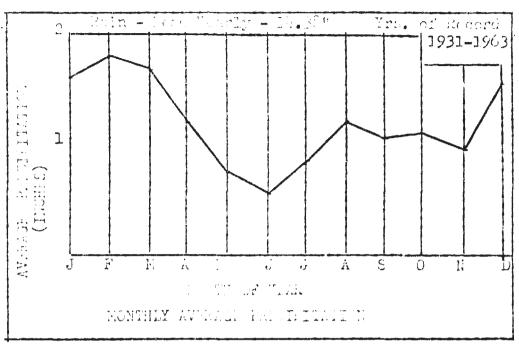
Title 36, Code of Federal Regulations, Chapter 1, Part 6.4(e) Vehicles exceeding certain size limitations must be convoyed over the park roads as stated in 7.10 for which a fee of \$5 per single trip will be charged for each vehicle or combination of vehicles.

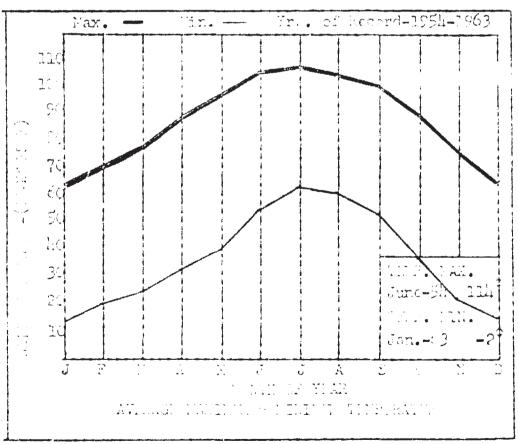
CLIMATE

Temperature: Temperature extremes are shown in the attached graphs, for the Zion Canyon area. Temperatures at the East Entrance and the Kolob will vary as much as 10 to 20 degrees below the Zion Canyon readings. Maximum temperatures occur mostly in June or July with minimums falling in December or January. The differences between day and night temperatures extremes will vary from 30 to 40 degrees.

All types of construction activities can proceed throughout the year. The average earliest killing frost is October 26 with the average latest killing frost April 15.

Precipitation: Precipitation records are indicated on the attached graph. Snowfall is so slight no graph was prepared. Snowfall will average about 8 inches a year in Zion Canyon. Snow falls mainly in November, December and January. In the higher elevations of the park such as the East Entrance and the Kolob, snow depth will sometimes reach from 24 to 30 inches.





Clen September, 1964

Wind: Prevailing wind direction is from the southwest. Spring and Fall months are the windy periods. Wind does not get too severe. Gusts of from 20 to 30 miles an hour have occurred but are rather infrequent.

FIRE HISTORY

Zion National Park is not considered a high fire hazard area. An average of 6 fires occur per year; on the average 6 acres burn per year. About 90% of the fires are caused by lightning. Most fires are on the higher elevations of the park with more occurring on the west side than along the east rim area. The chances of large fires are remote due to the country being broken up by canyons, cliffs and a decided lack of ground cover in many areas. The Lava Point Lockout is manned from June 1 to September 30 with that period considered the main fire season. The most crucial period for fires is August and September.

TERRAIN

The dominant topographic features are plateaus, cliffs, and canyons, strongly contrasted in magnitude, form and color. The topography consists of angular terraces and vertical walls are common -- curved outlines and gentle slopes are rare.

The region is part of the Colorado Plateau. The south and west exposure of the Navaho sandstone presents an escarpment ranging from 1000 feet to 4000 feet high. The most spectacular of these isolated buttes is the West Temple, elevation 7,795 feet, which towers over the nearby Virgin River which at Springdale has an elevation of 3,850 feet. The highest point in the Park is Horse Ranch Mountain, elevation 8,740 feet, in the Kolob section of the Park. Located in the northernmost part of the Park, this butte is one of several forming the breathtaking Kolob Finger Canyons. Equally impressive in this group is a completely isolated and unscaled butte named Timber Top, elevation 8,075 which rises sharply over La-Verkin Creek which leaves the west boundary at an elevation of 4,550 feet.

Major drainage is the Virgin River whose course is southwestward to Lake Mead in Nevada. Important tributaries of the Virgin River within the park boundaries are: East Fork

of Virgin River (Parunuweap), Deep Creek, Kolob Creek, Coalpits Wash, LaVerkin Creek, Timber Creek. The west-ward drainage is carried by Taylor Creek which enters and is lost in the Great Basin.

SOILS

The soils of the area were formed by the gradual disintegration of the sandstone parent material. These soils are permeable and highly erodable, and when the vegetative cover is removed, soon becomes gullied. They are shallow, rocky and contain very little organic material. Due to the shallowness of the soils, their infiltration capacity is small. Soil quality varies greatly with the varied elevation, climate, slope, and moisture conditions that prevail throughout the Park. Generally speaking, these soils are very difficult to stabilize.

RESOURCES

Vegetation: There is a wide distribution and variety of plant life in Zion National Park. Although plants of the Lower Sonoran, Upper Sonoran, Transition, and Hudsonion life zones are present here, their distribution is by no means a zonal one based on either latitude or corresponding elevation. Ponderosa pine and pinyon pine may be found on the floor of the canyons as well as on the plateaus 3,000 feet higher. No intensive research work on the Park flora has been done since 1937. The vegetative cover types with dominant and associate species are as follows:

Grassland - 6,000 acres. Except for a very limited area of this type on the floor of Zion Canyon, most of the grassland type is found in the Kolob section of the Park. There are approximately 40 species of grasses in the Park, and those species most commonly identified with the grassland type are as follows: Blue threeawn (Aristida glauca); Fendler threeawn (A. fendleriana); Needle and thread (Stipa comata); Indian ricegrass (Oryzopsis hymenoides); Prairie junegrass (Koeleria cristata); Sixweeks fescue (Festuca octoflora); Pacific fescue (F. pacifica); Cheatgrass brome (Bromus tectoum); Ripgut brome (Bromus rigidus): Foxtail barley (Hordeum jubatum); and Meadow Barley (H. nodesum).

Brushland - 25,000 acres. As with the grassland some form of brushland occurs from the lowest to the highest parts of the park. The prominent species in the semidesert type is threadleaf snakeweed (Gutierrezia microcephala); blackbrush (Coleogyne ramosissima); arrowweed (Pluchea sericea); Sait bush (Atriplex sp.). At a little higher elevation and associated with the pinyonjuniper the most apparent species are big sagebrush (Artemisia tridentata); Mohave rabbitbrush (Chrysothamnus mohavensis); Utah white oak (Quercus utahensis); live oak (Q. turbinella); and antelope bitterbrush (Purshia tridentata); Found in the higher elevations of the Park and linked closely with the ponderosa pine forest types is a brush cover characterized by point-leaf manzanita (Arctostaphylas pungens); Utah serviceberry (Amelanchier utahensis); Saskatoon serviceberry (A. alnifolia); true mountain mahogany (Cercocarpus montanus); curlleaf mahogany (C. ledifolius); chokecherry (Prunus melanocarpa); tarragon sagebrush (A. dracunculoides); and green ephedra (Ephedra viridis).

Forest Land - 88,000 acres. This group is characterized by tree cover in some form, whether it be the mixed broadleaf trees along the stream bottoms, the "pygmy confer forests" of pinyon and juniper at middle elevations, or the open ponderess pine forests on the high plateaus. The major species in this group listed in relation to the typical elevation at which they generally occur are listed as follows: Boxelder (Acer negundo); bigtooth maple (A. grandidentatum); velvet ash (Fraxinus velutina); water birch (Betula fontinalis); pacific willow (Sali: lasiandra); Pinyon (Pinus edulis); single leaf pinyon (P. monophylla); Rocky mountain juniper (Juniperus scopulorum); Utah Juniper (J. osteosperma); Douglas fir (Pseudostuga taxifolia); Ponderosa pine (Pinus ponderosa); white fir (Abies concolor); quaking aspen (Populus tremuloides); The distribution of these trees vary greatly depending on moisture, slope, and exposure.

Exotics: Prior to the establishment of the park and monument, the arable land was cultivated by the Mormons who introduced several exotic trees to the area. The only trees to become established to any extent is the tree of heaven (Ailanthus sp.) around the South Campground and the tamarisk along the river bottoms.

Insects and Diseases: The broadleaved trees have been susceptible to infestations by defoliating insects such as the tent caterpillar, looper, and the leaf-miner, but the losses from them have been small.

Shade trees: The maintenance of trees and shrubs in campgrounds and the developed areas of the park requires irrigation during the entire growing season. Defoliation from "chlorosis" sometimes results from irrigation, but this condition can be corrected by an annual injection of Terric phosphate.

<u>Water</u>: The North Fork of the Virgin River is the primary stream in the park. Lesser streams, but those having year-round flows are LaVerkin Creek, East Fork of the Virgin River, Deep Creek, Kolob Creek, Birch Creek and North Creek. The most prominent intermittent streams are Pine Creek, Oak Creek, Taylor Creek, and Willis Creek. There are no lakes or impoundments.

Wildlife: The variety and distribution of all for of wildlife is influenced greatly by the wide elevational range in which they occur. Below is a list of some of the most representative vertebrates that are found in the Park.

Birds:

Coopers Hawk, Accipiter cooperii Prairie Falcon, Falco mexicanus Gambel's Quail, Lophortvx gambelii Great Horned Owl, Bubo virginianus Poor-will, Phalaenoptilus nuttallii White-throated Swift, Aeronautes saxatalis Broad-tailed Hummingbird, Selasphorus platycercus Cassin's Kingbird, Tyrannus vociferans Scrub Jay, Canyon Wren, Catherpes mexicanus Rock Wren, Salpinctes obsoletus Solitary Vireo, Vireo solitarius Audubon's Warbler, Dendroica auduboni Bullock's Oriole, Icterus bullockii Black-headed Grosbeak, Pheucticus melanocephalus Lazuli Bunting, Passerina amoena House Finch, Carpodacus mexicanus Rufous-sided Towhee, Pipilo erythrophthalmus

Mammals:

Western Pipistrel, Pipistrellus hesperus Pallid Bat, Antrozous pallidus Rock Squirrel, Citellus variegatus grammurus Cliff Chipmunk, Eutamias dorsalis utahensis Northern Pocket Gopher, Thomomys talpoides parowanensis Merriam's Kangaroo Rat, Dipodomys merriami vulcani Beaver, Castor canadensis Canyon Mouse, Peromyscus crinitus Brush Mouse, Peromyscus boylii Porcupine, Erethizon dorsatum Gray Fox, Urocyon cinereoargenteus Ring-tailed Cat, Bassariscus astutus Western Spotted Skunk, Spilogale gracilis Striped Skunk, Mephitis mephitis Bobcat, Lynx rufus Mountain Lion, Felis concolor Mule Deer, Odocoileus hemionus Mountain Sheep, Ovis canadensis (extirpated)

Herptiles:

Collared Lizard, Crotaphytus collaris
Desert Spiny Lizard, Sceloporus magister
Western Fence Lizard, Sceloporous occidentalis
Western Whiptail, Cnemidophorus tigris
Common Whipsnake, Masticophis flagellum
Gopher Snake, Pituophis catenifer
Common King Snake, Lampropeltis getulus
Western Rattlesnake, Crotalus viridis
Southwestern Toad, Eufo microscaphus
Desert Toad, Bufo punctatus
Canyon Tree Frog, Hyla arenicolor

The home range of some of these animals is very small and their ecological requirements well defined. Still others, such as the mule deer make a seasonal migration from the lowest point in the park to the highest in order to meet the need for food, water, and protective cover as the season progresses. Zion's deer herds fall logically into a West Herd which summers west and north of Zion Canyon and migrates to lower elevations away from Zion Canyon; and an East Herd that summers primarily east of Zion Canyon and migrates into the Canyon proper in the winter or to other low elevation areas to the south and east. The primary natural check on deer numbers, the cougar, occurs in subnormal numbers because of heavy trapping outside of the

park in order to protect livestock interests. All these factors contribute to a complex deer management problem. Bighorn sheep were last reported in 1954, so it is assumed that they have been extirpated from the park. A reintroduction of this species is a long-range management goal. The protection and well being of all wildlife species will be enhanced by the eventual acquisition of all private land within the established park boundaries.

Fish: All early attempts to get a natural trout fishery established in the North Fork of the Virgin River in Zion Canyon were thwarted by periodic floods. Currently, catchable size rainbow trout are planted on a "put and take" basis by agreement with the Utah Fish and Game Department. These provide limited angling pleasure during those periods when the river isn't subject to flash floods because of thunderstorm activity. Occasionally a brook trout or a brown trout is taken that apparently works its way into the river from natural populations upstream. Native suckers and dace are found in good numbers and perpetuate themselves naturally. A check list of the fishes that are known to have occurred here are shown below:

Rainbow Trout - Salmo gairdneri

Brown trout - Salmo trutta fario

Brook trout - Salvelinus fontinalis

Blueheaded sucker - Pantosteus delphinius utahensis

Bigmouth sucker - Catostomus latipinnis

Speckled Dace - Rhinichthys osculus osculus

Scaley Spindace - Lepidomeda vittata

Virgin River Spinedace - Lepidomeda mollispinis mossispinis

History and Archeology: History plays a minor role only in the overall story of Zion National Park. Several interesting historic sites exist within the Park and future interpretive signing and/or exhibits should be planned. Of most significance is the cableworks atop Cable Mountain. This fragile structure remains from the turn of the century when lumber was lowered from the high plateau to the canyon floor. Originated in 1900, more than 200,000 board feet had been lowered by 1906. Second in interest is an old sheep trail that runs from Parunuweap Canyon up the east side of Steven's Wash to the plateau. This trail was built about 1915-20 and remains in fairly decent shape. Other historic sites include the oil rig in the head of Coalpits Wash, and two lumber mill sites along the Deertrap-Lemmon Spring area.

Archeology is of more importance within Zion and constitutes a significant role in the Zion Park story. Because of several early-day surveys, especially in the Parunuweap Canyon portion of the park, more than 85 sites are known for Zion. Recent surveys tend to strengthen the archeological importance for the future. Parunuweap Canyon offers the choice sites so far examined, and more than 25 sites have been reported to be of Basket-maker type. An excellent petroglyph site exists along the east entrance approach road; it will soon be signed and will be of interest to park visitors who wish to walk the 100 yards from the roadway to view the incised rock wal . Possibly, of most importance in the future will be site No. 83, a pictograph site in Cave Valley. This excellent assortment of earlyday paintings offers as varied and unusual pictographs as can be found throughout the Southwest. Archeology will no doubt play an increasingly important role as study and more protection allows.

Geological: Like so many pages in a book, rock layers of the towering cliffs and slopes in the Zion region tell a fascinating geological story of natural forces operating for more than 150 million years. They reveal that successive occurrences of vast seas, flat lands, raging rivers, tropical lowlands with cycad and tree-fern forests, deserts with great moving sand dunes, tremendous earth upheavals, and erosion which have all played a part in forming the region.

Ancient forms of crocodile-like reptiles and giant, sluggish amphibians once wallowed in marshes and bayous here. Dinosaurs, too, inhabited the region during one of the semitropical periods. Though none of their bones have been found here, large three-toed dinosaur tracks are preserved in hard sandstone rock layers, once the shoreline of some ancient lake or stream.

Over the millions of pears, in ever-changing cycles, the region continued to rise and then subside; oceans moved in and out several times, and finally more than a vertical mile of sediment had been deposited over the highest of the great sand dunes that you see today as sandstone walls.

About 13 million years ago, when the Zion country was again near sea level, a slow, gradual uplift of the entire region began. Eventually, the land was lifted thousands of feet. In rising, the land mass broke into great blocks.

The lines of cleavage between them are known as faults, the most famous of which is the Hurricane Fault. Near Kanarraville, Utah, this prominent geological feature attains its maximum displacement, estimated to be about 8,000 feet. Some blocks lifted vertically, some tended to "dome", and others tilted at varying angles, resulting in differing forms and heights.

As the terrace rose higher and higher, the increased gradients caused sluggish rivers to speed up and to cut deeper into their channels over the eons. The rise of the Markagunt Plateau to the north and of the Kolob Terrace, on which Zion National Park is located, changed the placid Virgin River and its tributaries into fast moving streams. These rushing waters rapidly ate their way into the terrace's rock layers, constantly deepening their crooked channels.

Billions of tons of rock were ground up and carried away, finally exposing the remains of that great ancient desert, now called Navajo sandstone. The major features of this park, including the deep perpendicular walled Zion Canyon, have resulted from upheaval, the erosive forces of restless streams, and wind, rain, frost, and plant life over the years.

Recreational: A surprising amount of recreational activity occurs in the North Fork of the Virgin River in spite of those periods following summer thunderstorms which subject it to flash flooding and heavy silting. One of the most exciting adventures in Zion is the trip through Zion Narrows during early summer and late fall when the possibilities of flooding are minimal. In addition, much swimming is done along the river in Zion Canyon when the water is clear and the air temperatures are high. There are no other waters conducive to water recreation.

Mountain Climbing: Most of the challenging exposures in Zion National Park remain unclimbed because most climbers are totally unfamiliar with sandstone climbing and because of the very high temperatures that prevail during the summer when most climbers are active. Dehydration, lack of water, and the instability of the sandstone are some of the problems that have to be overcome for successful climbing. Some of Zion's steeper trails (Lady Mountain and Angels Landing)

offer a real challenge for the average hiker and should be retained and maintained in a safe condition.

Special Scenic Features: The most outstanding scenic features in Zion are those that are found along the primary park road system; that is, the scenic drive up Zion Canyon and the Zion-Mt. Carmel road to the East Entrance. Among the best known features along these routes are the Court of the Patriarchs, Majestic Mountain, Angels Landing, Weeping Rock, the Great White Throne, Cable Mountain, the Temple of Sinawava, the Great Arch, West Temple, East Temple, the Watchman, Bridge Mountain, Sentinel Rock, the Altar of Sacrifice, Checkerboard Mesa, and the Narrows. Some of the features that are seen only from back-country trails are Hidden Canyon, the Great West Canyon, Death Point, Hop Valley, and the Parunuweap.

Zion's major roads are kept open all season long but the park experiences distinctly different seasons. Winters are short, with the colored cliffs standing out in startling contrast to the snow-covered terraces and slopes. Spring comes early and is often highlighted by showy displays of desert flora. Summer is characterized by hot days, but nights are relatively cool and periodic thunderstorms bring welcome relief to all living things. Fall brings a dramatic change in color in the breadleaved trees beginning in September with the aspen in the high country, and culminating in November with the cottonwood trees along the Virgin River.

LAND STATUS

The acreage within the existing boundaries of Zion National Park are as follows:

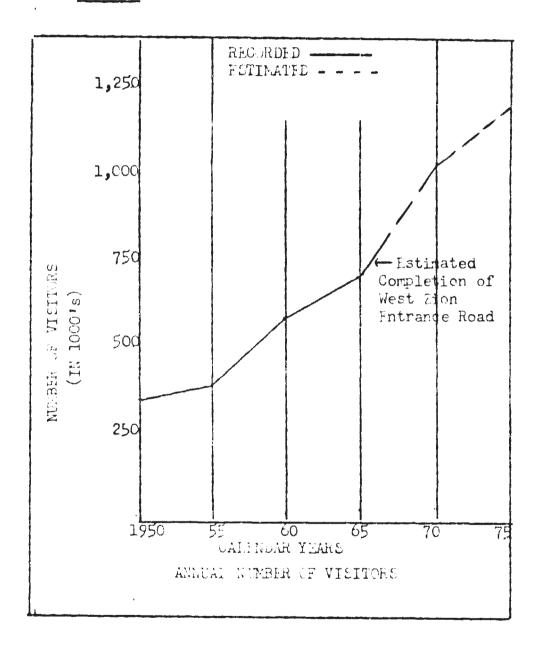
Total	147,034.97	acres	
Private	9,549.29	acres	
State	920.00	acres	ĸ
Federal	136,565.68	acres	

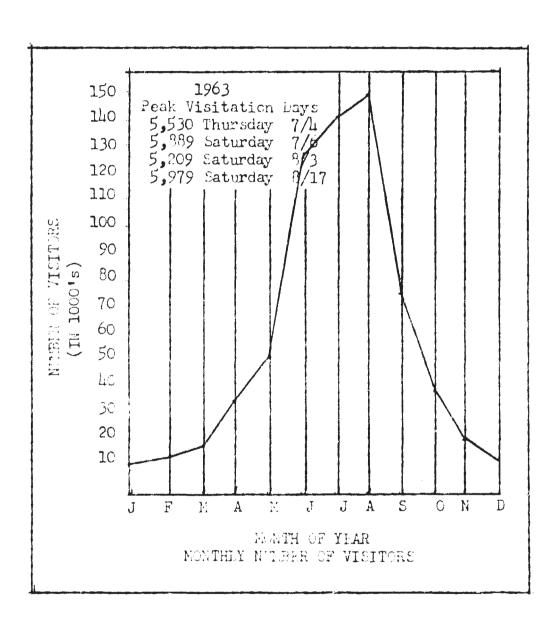
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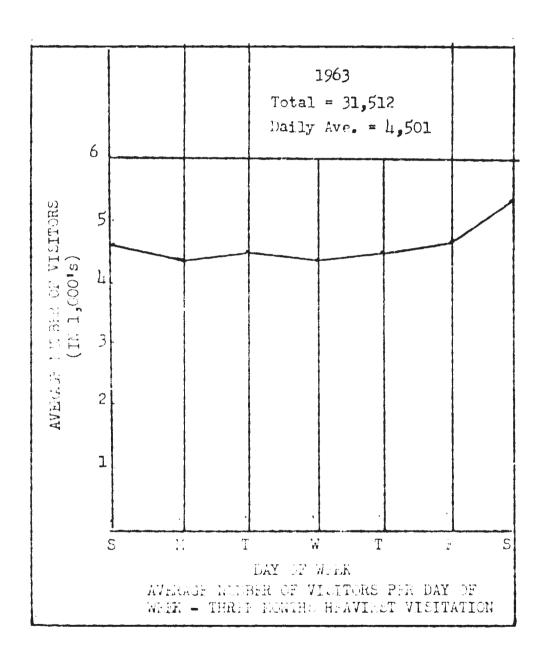
THE VISITOR

VISITOR CHARACTERISTICS

Number:







Zion September, 1964

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Origin: Records are no longer kept as to origin of park visitors. The last such records in 1952 showed California leading with 32% of the visitors and Utah a close second with 25%. This figure is probably about the same for 1964. Nevada, and the states of Texas, Illinois, New York, Colorado figure at about 2 to 3% each and the other states make up the balance. Visitors from foreign countries are on the increase but the percentage is very low compared to overall park travel, probably less than one-half of one percent.

Most park travel is recorded during the three summer vacation months of June, July, and August. These months account for 60% of the travel. Adding May and September to the busy summer time we find these 5 months account for 80% of park travel. Travel is lowest during December and January.

In comparing both entrance stations, it is noted the South Entrance records more travel for the year as a whole, however during the busy time of June 15 to Labor Day the trend shifts and more travel and revenue is recorded through the East Entrance Station.

Types: At least 80% of the travel during the busy summer season is by families. Organizational groups account for less than 1% of park travel. Special tour groups of the Utah Parks Company average between 1% and 2% of park travel each year. Use of the area by conventions is very low and of no special significance percentagewise. The average size of special groups would be 35 people. Some groups have as many as 100 and other organized ones as low as 15 to 20. The use of the area by groups starts early in May when senior classes and other school groups tour the park before the start of the regular season. Group use drops off to almost zero after Labor Day.

Frequency and Duration of Visits: Annual entrance permits make up 1% of the total entrance permits sold. The average length of visits for those staying in concessions overnight facilities would be one night, while those staying in the campground would be from 2 to 3 nights during the busy season. During the off season in the early spring and fall, campers using the campground remain for a longer period, probably an average of 6 days each. For those people not remaining overnight, about 4 hours would be the average length of stay.

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VOLUME I

Chapter 1. Princtives and Policies

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CHAPTER 2

MASTER PLAN

OF

ZION NATIONAL PARK

Chapter 2, Area Objectives

Purpose

Management Category

Management Objectives

Prepared by:	Russell E. Dickenson, Asst	. Supt. Date:	5-7-64
Recommended:	Starle & Obichaus Superintendent	le Date:	8/13/64
Recommended:	Keemal S. Seed Regional Director	/ Date:	10/14/69
Approved:	Director	Date:	12/21 1

THE ROAD TO THE FUTURE

Area Objectives

for

Zion National Park

* * * * *

PURPOSE

Zion National Park is located in the southwestern corner of Utah. Here, great fault blocks rise in lofty terraces to high plateaus above desert country of the lower Colorado River basin lying to the south and west. The headwaters of the Virgin River have sculptured tremendous brilliantly hued canyons into the first terraces, leaving within, towering peaks, flat topped mesas, sheer pinnacles, and arches.

The park, 220 square mile in area, encompasses several spectacular canyons including famed Zion Canyon, and a sampling of the nigh forested plateaus.

From 1909 to 1919, this area was a National Monument. In 1919, Congress directed that the area become a National Park "dedicated ... for the benefit and enjoyment of the people, under the name of Zion National Park."

The park's main purpose is to provide opportunity for all to enjoy and understand the natural grandeur and interest of this area of colorful canyon and mesa scenery that ranks high among the superlative scenic features of the world.

MANAGIDENT CATEGORY

Natural Park: Protection and interpretation of the natural features are of primary importance. History and archeology are minor values.

OBJECTIVE 1. TO PROVIDE FOR THE HIGHEST QUALITY OF USE AND ENJOYMENT OF THE NATIONAL PARK SYSTEM BY INCREASED MILLIONS OF VISITORS IN YEARS TO COME.

- 1. To insure that all services rendered park visitors adhere to standards which will provide a superlative and high-quality park experience. Cooperative training programs and inspections systems involving the concessioner and all operating units of the park are essential to accomplishment of this goal.
- 2. To encourage visitor use and enjoyment of all park resources by identifying appropriate uses of specific resources and providing information and opportunities for visitors of varying interests, age groups, and physical abilities to engage in meaningful activities. Especially encourage back-country use.
- 3. To use physical developments, information, interpretation, and protection in Zion Canyon and in the Kolob section in a coordinated way to achieve a better distribution of visitor use.
- 4. To maintain high standards of visitor services and visitor protection programs and make these available to all visitors at the point of need. This involves additional attention and greatly increased service to backcountry users, as well as to the majority who enjoy park features from the floor of Zion Canyon. The park must develop positive means whereby rangers will be aware of the entry of visitors into the Narrows and other hazardous canyons, and discourage such entry during periods of Ilash-Ilood danger.
- 5. To provide through coordinated planning with the park concessioner when appropriate necessary public facilities, properly located, to help visitors better enjoy the park. Increased dispersion of visitor use to avoid extreme congestion at existing developed areas will be sought.
- o. Concessioner facilities in upper Zion Canyon should not be expanded in this site. At an appropriate time, they should be discontinued or replaced by accommodations and other service facilities at a more suitable location. The number and type of visitor services and facilities located outside of the park should continue to grow, and these will be encouraged.

- 7. Continue public use of the facilities at Zion Inn until it has been established that there is no longer any need for them in the park.
- 8. Make optimum use of visitor facilities by encouraging off-hours and off-season activity and use which will more evenly distribute visitor load. Special education, interpretive and recreation programs will be encouraged.
- 9. To encourage use of the park for research purposes, whether or not such research is directly connected with Service operations, and to maintain adequate and exemplary scientific study collections, library, and other facilities to provide appropriate support of such programs.
- 10. To obtain complete data on visitor use of and reaction to facilities and services, for park use and as a contribution to a System-wide guide to anticipating future trends and providing better public service.
- ll. To base all planning for future use and development of both concessioner and Service facilities upon accurate measurements of present and potential capacity of the park, and ability and willingness of privately financed operators to perform or provide specified services or facilities outside of the park boundary.
- 12. To insure that the primary pattern of use will enable the visitor to enjoy freely the natural beauty, to appreciate the significance of the natural features, and to make optimum use of the recreational opportunities they afford.
- 13. Existing wilderness areas shall not be diminished by road extensions or other developments beyond limits essential to making representative portions accessible for use and enjoyment of the public. Such required developments will be kept simple and appropriate.

OBJECTIVE 2. TO CONFERVE AND MAYAGE FOR THEIR HIGHEST PURPOSE THE NATURAL, HIS ORICAL, AND RECREATIONAL RESOURCES OF THE NATIONAL PARK SYSTEM.

- 1. To initiate research projects which will furnish needed ecological and other special information to support resource management programs. Studies shall include recommendations of corrective measures which shall be undertaken, and provide guidelines for establishment of sound resource management programs aimed at restoring the park to conditions that existed when the early explorers arrived.
- 2. To manage wildli e and habitat in order to maintain a proper balance and restore depleted ranges.
- 3. To restore and maintain optimum ecological relationships with special emphasis on road and trailside environments in order to provide visitors with enjoyment of the natural scene.
- 4. To eliminate exotic species of plants and animals and all domestic grazing in order to perpetuate native species and improve range conditions.
- 5. To retain the primitive characteristics of designated wilderness for traditional forms or wilderness experience.
- 6. To protect and manage the park resources with an awareness and understanding of conservation practices of agencies and individuals operating in areas adjacent to the park.
- 7. To identify those aspects of man's use of park resources which destroy or unduly disturb wilderness and establish such patterns of use as are necessary to guarantee conservation of the resource.
- 8. To identify all areas of wasteful use of park resources and devise economical and practical methods of correcting these practices and initiate restoration programs for all such damaged and scarred areas.

Master Plar, Chapter 2 Area Objectives Page 5

OBJECTIVE 3. TO DEVELOP THE NATIONAL PARK SYSTEM THROUGH INCLUSION OF ADDITIONAL AREAS OF SCENIC, SCIENTIFIC, HISTORICAL AND RECREATIONAL VALUE TO THE NATION.

- 1. To acquire all inholdings as rapidly as possible.
- 2. Recommend legislation, as necessary, to adjust park boundaries with the object of improving management, protection of significant resources or park visitors.

OBJECTIVE 4. TO PARTICIPATE ACTIVELY WITH ORGANIZATIONS OF THIS AND OTHER NATIONS IN CONSERVING, IMPROVING AND RENEWING THE TOTAL ENVIRONMENT.

- 1. To foster, among the local people, an appreciation of the value of the park to them and thereby encourage the use and development of lands contiguous to the park in ways harmonious with such an environment.
- 2. To cooperate with nearby communities and cities, counties, and state, Federal and private organizations in conserving, improving or renewing the resources of this region.
- 3. To make Zion National Park a radiating influence upon the region with the goal of influencing total environment conservation.
- 4. To present to visiting international park conservationists and interested officials and students from foreign countries the philosophy of park conservation and management as illustrated by Zion National Park, and develop coordinated orientation programs for these visitors as well as for the casual international visitor.
- 5. To work toward achieving broad regional understanding and support of National Park Service objectives as exemplified at Zion National Park.

OBJECTIVE 5. TO COMMUNICATE THE CULTURAL, INSPIRATIONAL AND RECREATIONAL SIGNIFICANCE OF THE AMERICAN HERITAGE AS REPRESENTED IN THE NATIONAL PARK SYSTEM.

- 1. To strengthen visitor information programs, following studies, to determine what information is desired and which communication tools are best suited to convey the information.
 - a. To provide <u>general</u> informational services to park visitors and the public at large concerning the superlatives represented at Zion and other units of the National Park System.
 - b. To provide <u>specific</u> information by all suitable media on where and how to see and enjoy Zion, including its natural phenomena, historical values, archeological sites, scenic vistas, wildlife, recreational opportunities and interpretive programs.
- 2. To achieve the highest quality of interpretive services through adherence to approved standards and guidelines, by recruitment of well qualified interpreters, by systematic and critical appraisal and with programs planned and directed by full time professional interpreters.
- 3. To better serve the American people by informal personal interpretation, special interpretive programs and facilities, and by improvement of design and quality of other interpretive media for the public beyond the park.
- 4. To communicate the significance of Zion National Park and the National Park System in the American Heritage and to gain understanding and support for Service policies and the conservation movement.

OBJECTIVE 6. TO INCREASE THE EFFECTIVENESS OF THE NATIONAL PARK SERVICE AS A "PEOPLE SERVING" ORGANIZATION DEDICATED TO PARK CONSERVATION, HISTORICAL PRESERVATION AND OUTDOOR RECREATION.

- 1. Develop an attitude of personal responsibility for excellence of service to visitors in all Service and concessioner employees.
- 2. To develop and maintain a cooperative relationship among all employees; seasonal and permanent, concessioners, contractors and Government.
- 3. To provide working and living facilities and conditions conducive to employment of well-qualified personnel and their efficient performance of duties.
- 4. Regard certain community and recreational facilities and activities as essential because of isolation and size of employee community.
- 5. To apply principles of good management throughout the organization; to provide a closely supervised and coordinated training program, stressing improvement of manpower development and utilization; exercising prudence in the expenditure of funds for operating the park.
- 6. To coordinate operations at Cedar Breaks and Pipe Spring National Monuments, through the Management Assistant of each area, to assure compliance with Service policies regarding management, protection, interpretation and visitor use and accomplishment of management objectives and plans.
- 7. When necessary and appropriate to further park objectives seek the advice of and use the services of eminent specialists in scientific, technical and cultural fields.
- 8. Avoid duplicating the work of other agencies when it is possible to make use of their technical personnel and laboratories by cooperative agreements.
- 9. To promote, as a part of all programs, safe practices and working conditions for all park, concessioner and contractor employees, and to develop safety in all visitor activities.

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CHAPTER 3

MASTER PLAN

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Chapter 3, Management Programs Marrative

The Land

The Visitor

Staff Activities

Prepared by:	Belmer M. Armstrong, Chief Park Ban	Date 10/10/65
	Belmer M. Armstrong, Chief Park Ren	
Recommended:	WARREN F. HAMILTON	Date OCT 1 5 1965
	Warren F. Hamilton, Superintendent	
Recommended:		Date
	Chief, Western Office Design and Construction	
Approved:	Perional Divertor	Date



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Reologies!

Rich is an scological Park—a canyon land of unique bioslogical write. Few retural areas in the Matichal Park
System offer the opportunity that Zion does for the layman to so easily visualise the interaction of nature.
The Virgin River Valley seems to reach into the plateau
land with fingers of greenery bordared by span desert
lands which docrease with seconding elevations. Expellent ensuples of the desert environment may be observed
only yards away from cool niches of Rougles and white
fir. The restoration and/or maintenance of optimum ecological relationships is basic to the perpetuation of the
natural environment that existed before white men entered
the area.

Existing

- Management of mative mule deer to keep numbers in harmony with the vegetation upon which it feeds.
- Combination of fencing and patrol to prevent trespass grazing of livestock from areas adjacent to the Fark.
- 3. Soil and moisture program to prevent erosion and als low the restoration of native plant cover.
- 4. Control man's use of Park resources to minimize its effect on ecological relationships.

Hooded

- 1. Research to identify the ecological conditions that existed when white wan arrived at Zion. Two current resource study proposals (Zion-N-6 and Zion-N-10) have already be a devised and await funding. All other facets o Zion's ecology should be determined as a base for inture restoration and management planning.
- Pursus active management programs to restore and maintain the ecological conditions identified by research.
 Based on present knowledge the following priorities should be established in carrying out these programs.

Zion Canyon This section must be preserved for the people from the people. This can be accomplished only through more efficient and thorough management, and through the resoral of overmight usage within the confines of Rich Canyon above the junction of Highway 15 and the Scenic Drive. We must strive for the eventual time that the scene within the canyon will match, as closely as possible, that scene that greated the first white men who explored this land of contrast.

Such a scene must have been one of fresh running unter and rocky termin below the measured day, and one of open glades and meadows that followed the measuring river shows. History tells us that, even during the 1980's, the old lake had centained measures posts and meadows where a large number of animals and plants lived that are not found here today. The pends were drained in 1970 so that the measure population could be reduced for the convenience of the lodge visitors. The results not only reduced the measure population but also destroyed unique pend equamnities that contained numerous plants and animals that were found newbore also within the Mational Park. With the elimination of evernight usage in him Canyon, this nature some absult be emphasized by minor ditching and closing of the drainages that were constructed in 1930.

Taylor Greek-Pinger Canyon Arm. The escens wood into the Taylor Creek-Pinger Canyon Arm should never be extended in any manner that would impair its whiderness character. Only trails should prostrate the back-country from this read. Our public education program should explain the purpose of the read, and we must be firm and resolute in our decision that it should remain for day use only. This is the only way we can protect the natural values of this finger easyen country.

Upper Kolob-Lava Point Area The increasing development of the Upper Kolob area adjacent to the Park for summer homes makes it imperative that our planning will protect the natural values of the area. Development abould be minimal and in character with the wilderness mature of the area. Our portion of the county read should be of a minimum standard and blend with its surroundings. Good trail access to beckeening features should be constructed. All private lands should be acquired and restored to their primitive condition. All moness for

motorised travel, such as jeep reads, should be obliterated. A limited high country suto comparement should be considered in the viginity of laws Point when the domind warments it.

Mart Rim Area Access is all that should be developed on the Mart Rim of Kion Conyon. Must developing entemportant on private land adjacent to the Park boundary should be able to provide any need for overnight accessmonations or food service. Only lay standard made should be allowed to appreach the east rim of the enzyon. A good trail system would prove the escalient enumble of ponderous pine forest and still provide access to the spectacular overlooks at Cheerentica Paint, Cable Hometain, and Decreas Martinia. Primitive compaines for backpackers would be advisable to control their activity.

Coalpits Nest Area. This example of scutbrostern desert association needs only protection from development to incure its prescription. Provision show the made to incure that no veters from the Minie project book up into this fascinating desert environment or that the realignment of Righmay 15 as a result of the project not be alleved to adversly affect this unique ecological equantity. All reads to the upper reaches of this wash should be obliterated.

Geological Pestures

Zion is also a geological Fark. Its formations and unique position along the vestern edge of the Colorado Flateau escent be equaled.

Relative

1. Little is needed in the way of protection for Kion's geologic feature: as long as Service policy prohibiting water storage, hydroelectric power developments, and mining are adhered to.

Property.

 Program geological investigations in advance of read or trail development to insure protection of unusual tectonic features, or in some cases to show them to best advantage.

Vegetative Cover

The preservation of the native vegetative cover is integral to the overall eccloy of the Park. Governl active management programs are necessary to perpetuate this resource.

Existing

- 1. Pire Control High to extreme burning index prevails during most of the heavy visitor-use period. Tinder-dry grass cover on Canyon floor presents a constant threat of man-exused fires and occasional heavy lightning storms result in fires in the mess and plateau areas. Pire maches are maintained at Meadquarters, lava Point, and East Entrance. One suckechaer is stationed at lava Point from June through September.
- 2. Disease and insect control A program of surveillance is maintained to detect any build-up in tree
 diseases or insect posts that would have a detrimental effect on the vagetative cover. The only active
 control program is the annual treatment of the readside cottonwoods, willows, and service berry on the
 floor of Zion Canyon to control the Great Basin Tent
 caterpillar. Application of the bacterial spray,
 Bactilus thursusiensis, is by means of a mechanical
 mist blower.
- 3. A program of patrol and maintenance of existing fences along Park boundary is carried out to prevent livestock trespass.

Resided

- 1. Comprehensive research program on the plant ecology of Zion. Resource Study Proposals Zion-H-3, Zion-H-4, and Zion-N-10 should be pursued with diligence and when completed, will serve as an excellent basis for future management planning.
- 2. Beappraisal of forest fire control plan. Possibly the Park should be zoned as to those areas requiring immediate and total suppression, or just containment, or those areas such as inaccessible mesas or trailless vilderness, where no suppression action at all is necessary.

- Ų Pursue to completion a boundary funcing program with the objective of eventually funcing all areas where there is a possibility of livestock trespuss. program with
- * Terrinate all existing greating permits at the earliest opportunity.
- À tive vegetative cover on those areas. the Park is assential to eventual acquisition of all private inholdings the restoration of the na-E
- g, Establish and pursus active eradication; a climinate introduced plant pests such as thistle, built thistle, temperisk, milion, sendent toppenhers 28. Thursday, and
- 7 dive proper consideration to the restoration of na-Kountain Male Beer.

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tial damage to physical installations. The kigi is the only extirpated species that needs to be occasideration at this time. public heelth basard or where they are causing substanin the developed areas where excess populations Press so that the ever habitat and population can be main-tained in the same association that existed when white man first visited the area. Modent control is practiced of Attended The MINISTER OF the management of the healy Meuntain Mule Mon is concernated centrol is practiced The Lighton sheep - A -

Mule deer Management

Existing

closures were constructed on sites of deer concentration to gauge habitat use. A series of browse plant utiliza-tion transects were established in 1934 and maintained until 1954. Between 1936 and 1954 about 560 deer were vision of planned long-term deer management. gained from those early remagament attempts point up the ping or direct reduction. removed from the Zion Ckryon and Bast units by livetrapthe Zion Canyon and Bast units. In 1936 seven feneral ex-Farly management work in the Fark was designed to alleviserious overpopulation that began in the The experience and information 1930's 10

Park manyover to widilize propuncibilities gives more indesignation of Wildlife B P Ranger (GS-7) presision was Des Pres de given the edded

state to form an admed Deer Busting Fra state to form an around. Tellet-group and browns whilisation type transects have satishifted, or re-established, and maintained in the last unit. They offer an exempt index of deer abundance the mate

over many years by Park personnel. The Scottle Brive a-long the bottom of Kion Canyon offers an casy section through the middle of this deer unit. Since 1962 svening read source have been made at least once such menth. These counts are all conducted in a prescribed memor, following the same route. They provide a continual esti-ments, or trand, of door numbers in the unit. By separsting the unit into convenient and somether natural sub-units along the counting route, a rough estimate of popu-lation appreciate between three sub-units is obtained from count-to-count.

somal agreements in sud out of the Fark and interpreting their managerial significance. Such information could determine the feasibility of regulating the Fark population through a closer manipulation of the hunting season In order to gain basic information about the Lien Ganyon and Mast waits, a two year research continues was signed with the Utah Cooperative Wildlife Massanth Wait, at Utah State University, in 1965. The primary objective is to gather migration data about both units, describing seaoutside the Part. Or, bat coudition, forage availability, and decrises tract is to gather more basic information about the direct reduction program. THE TANK 26 could justify regulation by a Table C S 900

Mooded

The lack of basic information about these doer units is particularly evident. Until such information can be obtained for all units, only piocessal attempts toward the management purpose will be possible. The current research contract will start this process. It will sertainly emble new perspectives and justification for current program revision.

The heavy, continued human use and impact in Lieu Canyon presents special management problems. All units in the Park show degrees of disturbance from human exploitation. Zion Canyon is so important and unique focus of human visitation. It receives the breat of fact visitor use. Nest of it is not epathgrous with private lands, unlike the other units. Puture minagement design must consider Sion Conyon in light of readside blots manipulation and other visitor activities. A harmonicusly balanced deer population is not necessarily an easily viewed population, but Fark visitors importantly relate door eightings to the meaning of their visit. Compountons need to be made to both the visitor and the presention of a barrentiour deer population. In Zion Cunyon steps toward managing this problem will emerge only after a thorough appreisel can be made of the deer-to-habitat relationships in that unit. The basic deer ecology of Zion Canyon and its special bushn uses should be the next logical step of management in the Park.

In the western parties of the Park, the West unit, a habitat evaluation, and migration studies, should likewise be undertaken. The private land complex hordering this unit suggests a closely comperative endagent with the Stak Pish and Gene Department to describe the decr-use situation here and to define the problems. All presently available information about this unit points to a management program that will require an especially intricate bland of good public relations with landowners and sound wildlife management. Summarized the programs required are:

- 1. An intensive study of the Zion Canyon unit.
 - a. To determine the habitat carrying-capacity of this unit, consistent with its continued humanuse programs.

- b. To determine the population characteristics and intra-canyon movements, and to describe the special structure of inter-dependency between this deer population and the human population using the unit.
- c. To device methods of data collection and interprototion that will be usable within the manpower structure of the Park organisation.
- 2. A cooperative study with the Utah Department of Fish and Game of the West unit.
 - a. To determine the migratory and resident use of this unit.
 - b. To determine the carrying-capacity, or population level, consistent with the mutual occupation by this herd of both the Fark and private lands.
 - c. To devise methods of fata collection and interprotetion that will be usable within the manpower structure of the Park creamisation.

Rodent Control

Belsking

The present program is involved in preventing physical damage to Park strv tures and grounds adjacent to them by gophers and ground squirrels. A very selective method of poisoning or trapping has been used in this control. Ground squirrel reduction as a public health measure has also been recommended to control abnormal population build-ups when they occur in intensively developed areas.

Needed

Control efforts should not be expanded, but they should be refined to be more effective. Close control of this activity is required to insure that it has no adverse affect on other species.

Bighom Sheep

Bristing

There is no indication that highern sheep now exist in Lion. The last suthentic records of their occurrence was in the late forties, and careful recommistance of their former range by qualified observers have not yielded any trace of them.

Booked

It would be most desirable to have the highern sheep reintroduced. A resource study proposal has been written up with the objective of assessing all of the factors responsible for their extirpation and if present conditions are satisfactory for reintroduction. This study should be implemented as soon as possible.

Aquatic Life

Little is known about the ecological relationships that exist in Elem's limited water resources. Evec species of date, two species of suckers, and the renowed Lion small are the agentic animal forms which must be assured protection if they are to be perpetuated.

Red State of

Hormal protection from polution, drainage, etc., that would adversiy affect water levels.

Breded

Research to properly assess the ecology of our equatic environments and the management measures that will be required to protect them.

Historical Restures

Although the historic and prohistoric thomas are sinor once in the everall story of Elen Park, several significant sites and structures to exist within or adjacent to the Park area. Yery little of the Back had been surveyed archeologically except for the lover portions of Paramaweap and Kien Canyons. A complete archeological survey of the Fark is necessary before the full story of early man in this area can be understood and perpetuated. There are only two sites of historical significance in the area that should be considered for preservation and interpretation. One is the old calle headwarks on Cable Mountain, and the other is the old DeMile house at Samesburg. The latter is located just outside the Park at the mouth of Argument Canyon but there is much local interest in seeing that it is preserved and is in an area that is slated for acquisition if the Park is ever calarged.

Bristing

- 1. Inventory and cataloging of known archeological sites.
- Current protection is primarily by the innecessability of the sites and structures, although occasional patrols are made to check on them.

Record

- Comprehensive research program to serve as a basis for fixture preservation and/or restoration plans for these sites and structures.
- 2. Petain cable headworks on Cable Morntain as long as possible. Provide trail access from the east side. Cable headworks should eventually be replaced by an exhibit in place that would depict its contribution to early settlement of the Virgin River Valley by the Mornous.
- 5. Executation programs for pictograph cave sites number 83 and 64.
- 4. Acquire all private lands necessary for the protection of these sites and structures.

Hater

Water is one of our most precious resources and is protected and developed in its natural state wherever possible. Maturbance of the water table or the natural flow of water over the terrain can have a profound effect on plant, unimals, and the visitor's enjoyment of the area, so every effort is made to manage it visely.

Existing

- Soil and moisture program to eliminate accelerated runoff and encourage retention for the best use of plants and animals.
- 2. Development of good water sources to provide for the needs of the Park visitor in the comparemake and concession accommodations. These sources are protected from contemination by good installations, smaltmation impactions, and periodic maintenance. Main storage is provided by a que-willion gallon storage tank in the Rirah Greek Area.

Needed

- 1. Additional storage. Another 1,000,000 gallon storage tank is programmed for the Mos Canyon area and should be sufficient to meet expanding needs for years to come.
- All water sources required for Park and visitor use 2. should be properly documented in conformity with the laws of the State of Utah governing such use.

11 mak of 1966 Maintenance and Protection of Recilities

Existing

- 1. Maintenance and clean-up work on reads, trails, parking arone, and compercious are progressed on a contimual busis with major emphasis on the periods of heavy visitor use. Snow removed in coursied on for the dustrion of each stone with almost daily sanding necessary to control toy road conditions in between storms. Relatively sponting, the virter season is short and stores are infrequent. Striping of reads is usually done by contract with the State of Utak.
- A preventive maintenance progress of building and ₡. utilities is carried on during the fall, winter, and spring months when travel is at a minimum. Only configurey repairs or replacement is done during the busy somer morths.
- 3. The program for the maintenance and relabilitation of signs, markers, and roadside exhibits is carried out during the winter months. A fack size countities is set up to central the text and placement of signs.
- 4. Viundalism involves primarily the destruction of signs and the defacement of natural ruck surfaces by writing. These are kept to a minimum by good patrol. effective sign maintenance, and the early removal of any writing from sandatone facos.
- 5. Ganitary clean-up is effected by Burk crews. Carlage is disposed of at the Seriesdale term down by ecoperative agreement. The coppositioner built and

Master Plan, Chapter 3 The Land, Section 1 Page 12

disposes of his refuse in the same area. The garbago pickup by government crews has been greatly facilitated by the addition of a new garbage packer.

Seeded.

1. The greatest need in providing proper maintenance and protection of facilities as travel increases and these facilities are expended is progressing the necessary manpower to carry out these fractions. It is importaine that there increases be progressed in advance of the opening of new facilities to the public.

MACHET FROM

Information - Interpretation

Introduction of the Visitor to the Arm

The initial contact with most visitors entering Zion Mational Fark is at one of the Batzanos Stations on the main road that traverses the Fark. This is often the Park visitors only exposure to uniformed personnel, so it is an important one. Here the visitor obtains his entrance permit, is given a Fark booklet, and is encouraged to stop at the Visitor Center for additional orientation to belp make his trip to the lark more momentageal.

Relative

E & 1000

Two Untrance Stations are required to control entrance to the Rica Conyon portion of the Park. The South Estuance Station is located at Springdale approach to the Rack just souls from Park Bushquarvers. The Bast Automos is twelve miles distant in an easterly direction and controls that traffic travelling west from U.S. Elghway 89. The fact that this route, Utak State Foute 15, is the first cost-west higher worth of U.S. Highery 66 power some problems as some motorists are using it only as a through route and object to paying the extrance fee. Sesidents of Kene, Washington, and Morthern Coconino Counties are enough when using the good for this purpose. The stations are opened 9 hours daily starting April 1. Hours are increased with the Fast Entrance operated 16 hours daily and the South Entrance 174 hours daily, from about June 15 to labor day. As sensonal employees leave, the hours are gradually reduced back to 9 leans daily during fall months and both stations are classed for the senour about limitingiving. If any power shortage exists, the East Intrance is closed for a day or two, depending on circumstances and the South Entrance then collects fees from both incoming and outgoing traffic.

Park Rangers on duty collect the cutrance fee, dispense Fark information folder, issue tranh bags, and give out other information as time permits. During heavy visitation days the Entrance Station Ranger Circuts visitors to the Visitor Center for information. Both stations are equipped with radio and can communicate with all mibile

Total and the second and check point to appreciate tractic tra vehicles and to 8 les enforcement policy comes, it may be desir-S Total de Padet 7178 Lookout. 3

I

hoth of the extenting stations are oriented and are school-ling for regularizating stations and littles that can be ex-pended to meet introducing meets. The law treat into the Finger Conyes country will regular as estamace station to be known as the Toplor Creek Intemperrecordary send to the large Point area is improved. In the not content station to

Take the same of the same

State to trap

give detailed information on low and where the visitors on best spend his time. Therefore, we deposed primarily on the information desk in the lowy of the Visitor Contor to dispuse this information. These requesting more specific individualities on activities such as hiking, slienting, and head-country trips are in turn referred to the Names Office in the Visitor Contor. Although only manother excellent way to dispense information and are invisitor in planning his stay. ned in the afternoon and evening, the campground re Stations be a certial out, It is important that the initial contact at the Entrance parking areas where people tand to congregate. tration station dispenses such information helpful to the tunity at the entrance during the busy summer season structed to make many stope at important turnouts and but there is sulden an oppor-The patient nengure are Ş

1

Additional contact points are needed and should be proto the new Watchman Campground,

tunity a contact station will be required in the Laws Point area. It is also important that we intendify our tendening efforts to ensure that composationer employees will be giving accurate information in their many our tents with the Park visitors. The Saylor Creek Intrance, the Temple of Simulava -COACE

Interpretate The

The Magnificent red san istano cliffs, the desert, the

7.0

The program of inherpretation is carried out in the providing of exhibits for the Masons, lobby, and Auditorius and readmide interpretive signs. Solf-guiding mature as means of interpretting the story of the Park.

The Masses collides deal with the geologic, Mologic, Molo tradin and other medition available.

Auditorisms in the Miseum. The Auditorium programs is essentially an orientation slide programs to acquaint the visitor with things to do and see while in them. The auditorismal moneage repenter used in the Marajo Some Modiforismal moneage repenter used in the Marajo Some Modiforismal moneage repenter used in the Marajo Some Modiforismal the story of auditorities during the time or over conditions of the maximum being deposition under descript conditions. ardend Supe illimitated talks and meries. purpose of acquainting the visitor with the fark story in as are given at three locations and serve the 100 au

Conducted trips are given at two or more locations, depending on the season. During the peak of visitation, the ensure months of June, July, and August, the conducted trips are limited to the Marsons Total and the Maerald Pool Trail, and these serve the purpose of acquainting the visitor with natural phrashman found along these trails such as the flows and frame and the geologic story presented in the various sedimentary beds exposed to view. The Marsons Small conducted trip is limited to two formations — Keyents and Marsjo, while the Marsald Pool Trail adds the Monarce and parts of the Chinle formation, in addition to evidence of the lake Bad deposits.

Hondaide estibits are planned for several strategic locations where some special feature is exposed. These are located on the Rest Estrance read where parking areas are now available; others will be installed as some as the parking areas may be provided. Twelve estibits have been planned and six of them are now in use.

Keeded

Although the Vinitor Center is the central orientation place, other smaller centers and imbenation-interpretive stations are necessary to completely tell the story in the best manner — on the spot. It necessitates, therefore, three additional centers for interpretation and information. Nost important, with the present traffic trend, is a small Visitor Center at the end of the Eion Canyon Scenic Drive, the Temple of Singurys. It should be small and compact. It should centain an information deak and room for sales items, space for four or five wall-type exhibits, and an office behind the information deak. Here should be told the story of the formation of the conyon section of Zion Park and unique ecology of this particular section of the canyon.

A similar Visitor Center should be planned for at laws Foint. With the future comping planned in this area, a small center which interprets the high country ecology should be of utmost importance. A third center should also be planned for at the mouth of Taylor Creek. It should interpret the Finger Canyon ecology and encourage visitors to travel to the Zion Canyon and Lava Point regions of the Park.

Visitor Protection

Most programs involved in providing visitor protection are once of long standing and will only need refinement in the future to take advantage of now techniques and equipment in order to most over increasing needs.

THE PROPERTY.

The Park has proprietary jurisdiction with the State of Utsh. Due to the shouse of a United States Commissioner near the Fack, all violations are tried through the local Justice of the Peace Court as vipintions of state laws. All personent Park Respects and the sensonal Park Respect examples to party Service are appointed Dogsty Steriffe of Makinghan and Rame Counties. That Fish and Guse, Utah Makiny Patrol, and Maskington and Rape County Showiff's Offices anglet in a limited way with state law enforcement. Large concentrations of visitors in the small area of Mica Conven present special problems of trailie control, compley, and law enforcement activities. The local attitude toward the Park is generally favorable. Local Aveniles crusto some miner distrubunces during the susper; meetly traffic vigintions, disturbing the peace, and drinking. Some readmine wise cocurs, primarily to med signs and garbage cans. Hon-conforming and non-compatible use occurs occasionally in the Kolob area, generally in the nature of stock trespass. A concerted effort is being made to have a United States Commissioner appointed for use of all Peteral Agencies in Southern Utali. The Countesioner would live in one of the southern communities. Benident population in him Canyon vertee from about 250 people in maser to 60 people during the winter mouths. The Raik Ranger patent operates from 7 a.m. to 1 a.m. through the three main pummer months. If wondalism and other law enforcement setivities increase, it may be necessary to extend these hours even to the extent of having a 24-hour natural.

Structural Fire

A building fire and emergency plan has been written and distributed to all Rark employees. About twenty employees make up the fire ever and receive formal training in a wariety of subjects over the year. Fire drills are hiweskly. Personnel have received formal training 2 hours a month from a representative from the Utah Trade Technical School, Prevo, Utah, during the past year. Other personnel are sent to fire schools in nearly areas as time and funds persit.

Pipe protection is provided for some 220 buildings incline the first of the little of

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District of The Court and the Best Butterer.

Seerch and Reserve

Approximately 155 miles of textile are recorded in the back of the state of the control back operatory open to climitate type rilege or requirement ridges. Secure one by Described Ar. Lost delice less the state one by Described Ar. Lost delice; but the secure one by Described Ar. Lost delice; but the secure and consecution fact it the, Order like of the compon floor, pertubes the rescues governly require one climitag is meantained toronic. Others walled exception and implated mones classify the area of creating advanced security bearing with operations requiring advanced security bearing with operations requiring advanced security and reactes with operations require and spring, while secure societies are affected by high temperatures and lack of value. Fire pointies are required of bilance the plan to remain set oversalphs on the back control textile. Because of vicities in juried will be lateing or short-outting operate account account to be back asserting to decount account to be because or body as of decount account to be because or body as of decount account to be because or body as of decount account to be because or body as of decounts account to be because or body as of decounts account to be because or body as of decounts.

wiles to figor of caryon. There is a record of three cambles and one serious injuries from eliminating socicionts with part the styrent. There's end position to readily brain the serious serious. College and the later than the later and the serious and control of the serious are available. An emailified species with a listening device significants the serious of the serious equipment throughout the year.

Brassman Co. And Physic Ass.

All permanent back improve recitive tradition in Circle and expenses the explorated for all interpreted permanent in the exploration of the exploration for the exploration of the explo

North consequently consist of tajuston from tractile accicents, falls, burgs, and the usual number of minor inturies such as cuts, breises, insert bites, etc. to date the has been fortuned in bring very for sections automobile equipment, he will be other types of more serious injuries. One manager sector vectors is a station vector, and blankets, the other facts and angelies, researchery, and blankets, the other magne is used to transport injured rouple either to the dector in Marricans or the houghtal in St. George, Stak. Over a recommissioner pariof thout a drawn such trips are made.

Other energizates country of flash floods opering roadvays with sud and debrie regulating quick action for traffle emittal.

Control of the second second second second

Doring the summer months from June 15 to Labor Day, a Facil Ranger is stationed at the South Compground from 3 to 12 p.m. The primary duty of this station is to assist compare in finding sites, locating groups in the proper places, delivery of emergency messages, settling minor comparement complaints, minor first aid causes, make compground counts daily, and to keep peace and quiet in the compground. The regular ranger patrol makes frequent trips through the compgrounds during the day and assists the compground Ranger when he is called to do so. At times when no personnel are stationed in the compground,

but it is only a Mary Mary 0 11 5 September 1 The same The Repub Managerial Ray to Labor K Tornari this added protection GIT YES 8 3 P Change of the second Services. 3 H 1 mentions F Ω September 1988 of the Control of the E B Throad Market 2 5 10 year intervals. E 3

Contract of the Contract of th Control of Manage and Le passes most from entrance stations, whice of and jumperty, as well as a check on concess F F S A STATE OF S 8 sist motorists in trouble, with patrol to discontinued.

Nich median median that ha 1000 Service of the last partrail 20 aty, and employ with minor F Con State Assumbles 神典 等 当社 D PROPERTY OF 3 The second 100 i 2 4 5 P 1000 5 F R

THE PROPERTY OF

2 those vehicles is a station vagen that can be converted into an embulsance. In the spring and Sall when traditions light, weak patrols are made by personnext research. THE HOLE, THE COLUMN TO Pay, by statistic stated bear H None of the last magner would be designed Transfer of period roads in the Peak which per trackets equated the over 705,620 Smed gr 2 ers ognizzed for paired work the stage of the stage of 200 PROPERTY AND 9

Tractic signs are posted throughout the area which are enforced by the Ranger patrol. Serious and malicious violations are prospected in a local Justice of the Pages Court. Citations are located as Deputy Sheelift of Massington and Mass Courties which cover the majority of the Past. A special regulation possibling the use of over 8 feet wide and 10% feet kigh and 55 feet long tracks on the Past spads during the masser matchs because of the narrow winding tunied account the terms of the patrol providing a convey through the terms of the feet the patrol providing a convey through the terms of the feet to June 1 to September 30. Conveys are measured for large tracks all year execut.

Vinter conditions demand a compress inspection of the Park reads because of lay conditions and falling reaks on the readship. Show grades in the Rush with more or lay conditions dictate the send for the use of chains for everyone using the reads. Highs are displayed at each entrance for the information of metorists when such conditions exist.

Market Barrier

High temperatures during sameer souths make swimming a popular sport in the Vingin River and Pine Creek. The streams are skallow, presenting no serious hasards other than slipping and falling. Flash flooding in the sarrow canyons are a hasard and does occur several times each year, and semethers results in visitors becoming trapped or emight in high water. Five bikers were killed in the Zion Barrow in September of 1961 as the result of such a flood. The concessioner has a schedule pool at Rion ladge available at a number fee for all visitors desiring such services. Life guant protection is provided at the pool. The Fack does not encourage the use of the river, nor does it probletic its use.

Winter Activities

In the Park no special winter activities are evallable. Some winter use of the trails by visitors takes place. No suitable place can be found for skiing, sledding or inte skating in the Park. The present plans are not projected for such activity.

Wildlife Control

House, vigilance is minimized in remark to these eximals, such as force, shorts, squirsels, etc., thich are
supported of transmitting communication dismace. Suspect
animals are termed over to the Utah State Public Smalth
Service for determination, particularly chore a human expossess my to irrelived. Although a confirmed case of rebies was found in the Park in 1864, the discuss has been
very law occurrence in Utah in the past and me remignate are extincipated in the future. Subtlementar occur
indrequently but solden in the heavy visitor use areas,
so present no chose for opnosing.

Businessing patrols are carried out as man-power possite. Due to the for the langer trails are used by less than 15 of the visitore, must patrol activities are carried out on the more bearily used trails closer to Zion Caspan. Livestock trespect is a smjor company along to back boundary and in certain areas adjacent to inhelings, and must be checked partializative. This is done by horseless or jeep, depending on the location. It is inportant that these inheldings be acquired at the earliest opportunity as they block access to many interesting back-country factures. This will also enable the fank to develop a good backcountry trail system at which time it will be accessary to implement an intensive schedule of backcountry patrols.

CAL DECIME

Park percental work closely with local Civil Defense agencies. The two tunnels have been designated as shelters
in case of air attack or danger from fallout. Supplies
for 900 people are stored in the basement of the Park
Warehouse and are evaluable for immediate use. Protection personnel attend meetings in nearby communities on
Civil Defense activities. Eight Park caployees have recoived training in madialogical monitoring. First aid
classes are conducted once or twice a year.

Accommodations and Services

Bel a tring

All oversight accommodations, meals curios, etc., are provided by the Utah Harks Company under contract. In present contract expires in 1969.

public of providing for approximately 350 people. Mining room with sesting ospecity for 150 people, curic store, some foundating and recreation room. Scientify shot open all that windtons for a months. See. Marbor service in 76 modern standard, and 86 chara-shows standard are co-Man Today BLAS UP ELON CONTROL. second Saturday in June to Labor Bay. restable two days a west. Cabin acoca lations obtainting of 38 deluxe, Redilities are open from Madag 8

otindard cabins are espable of providing accommods for approximately 115 people. Cafeteria, curios, limited gracery items for campers. Open from May Cotaber 1. Located in the South Campercand cress. Man Im: Fourteen finally cabins and 35 share-shover Total Monte T

Standard ULL Destroy the Utah Parks Company. Gy to October 1 and provides gas, oil, tires, and auto a cessories. Located adjacent to the South Compground. This Section is a sub-Open from May 15 and auto an-

To see a

Many of those accommodations and services are duplicated or supplemented in the nearby community of Springulate which is immediately adjacent to the South Enternosa. Trailer hookups, launderment Socilities, and showers are the major services that are provided in town that are not crailable in the Bark. Properly developed, it is onvisationed that Springulate could provide all of the overnight accommodations, with the exception of omnging, that might be required in the future. At any rate, any future development of facilities in the Fark should be restricted to the South Extrance area, and the structures at Zion Lodge should be removed when they can no longer serve any weful purpose, with that area being converted to day-use

Bus and Rail

Existing

Bus service is provided by the Utah Parks Company from Codar City, Utah. Bus service coincides with the operating season of Zion Lodge, usually from about June 12 to September 2. The bulk of the transportation service that is being provided consists of all-expanse tours for five days, or less, taking in Zion, Bryce Campan, and the North Rim of Grand Campon Entional Bark and Codar Breaks Batismal Manument. Buy cours are smallable direct to Zion from Codar City and return.

There is no bus service to the Park of any kind from labor Day to mid June, except from the Common Tours operated out of Panguitch, Utah, on Righmy 89. At the present time the demand for bus service from nearby communities along Highways 91 and 89 has not been great. Unrive our rental service is available at Gedar City and is used primarily by persons arriving by commercial airline. Only a limited number of inquiries are received from people desiring to visit Zion without a car.

Reeded

A complete re-evaluation of today's transportation needs should be conducted before the preferential contract with the Utah Parks Company is renigotiated in 1969. In light of the change in the modes of transportation of our present Park visitors it appears that better and more equitable transportation may be provided by liberalizing the existing regulations regarding commercial transportation. The objective of such a study would be to device a system that would best meet the needs of the modern day visitor on an all-year basis and still yield a fair profit to those providing the service. The incorrestance to the Park visitor should be a prime consideration.

Recreation Humagement

Wildermean Unc

Be stine

It is estimated that less than 1/10 of 15 of the present day visitors to fion visit the fabulous areas that are out of sight of the main roads and developed areas. One major determent to the proper use of these backcountry

Control of

areas in that private inholdings block access to many of the trails leading to them. For that reason, large areas of wilderness in Rien are visited only by Park person. Alin making infrequent patrols to check on stock traspers or in suppressing fires. Scheduled horseleck trips by the opensationer solder penetrate the vilderness.

Esphed

The biggest need, of course, is the early acquisition of all inholdings so that non-conforming uses can be eliminated and season to the vilderness secured. Once this is accomplished the present trail system should be expanded to provide good access to the major points of interest in the backcountry. Areas of pure wilderness such as the 20,000 series surrounding the Great West Capron and the Marrows of the Virgin should be left devoid of all trails. Primitive counting areas should be designated along the backcountry trails to control this activity and make: sources should be developed along the trails where forsible. Other activities related to this use should be limited unitaly to brushing, making, and making minor repairs on trails, providing information and maintaining control of visitors for their out pertection, development of rescue plans, and in some areas continuing soil and moisture control work to crase the damage. caused by heavy overgrazing before the area come under Federal control. The road presently being constructed from Taylor Creek will provide access to wilderness areas in the lavorkin ... Breaks of the Kolob district.

Hamardons terrain and extremes of vestber conditions make the providing of information and the control of visitor activities an important aspect of wilderness wer. Colotrol of visitor activities can be maintained by requesting that all persons entering vildermone areas register at the Chief Ranger's office. Fire permits should be issued to help control the indiscriminate use of fire, and provide information on the movement of persons into these areas. Registers should also be placed on some trails leading into wilderness areas. This information is invaluable in case rescues become necessary. Half of the wilderness use in Zica is by persons biking through the Perrows. Information on current weather conditions and the denours of flash floods often dater visitors from saking the hike during uneafe periods. Warning signs placed at the entrances to the Marrova Will help. Registers to be placed at accessible lecations on the headwaters of the Sayrous will furnish information to rescue parties on the number of persons she might be trapped during flood times.

Matter Use Activities

Seep at 11 News on the extension to 5 the State proper.

Secretary Colleges

Due to the Detains of the Memojo emidetone, sountain climbing is not a popular spect in Edm. Mass Compare to Climbing the Desay we provide the Memojo emideton and Administration of Limbing Information and Science of Particle Limbs and the Climb of the Great White Throne over the post 30 years. Climbs have been made of the Rast and West Tompie. Frontal climbs facing the Caryon Read Mayon been discouraged. All persons wishing to climb are checked out as to past experience, eguipment, and payatoni abilities before personate in generate. First personal receive tendenting in climbing tendential event times. The personal receive tendenting in climbing tendential constanting of the years. A S

Camping

Existing.

The Crotto and the South Camparound larve a capacity of 1208 sites, the Essay (for which was exceeded on most mights of the summer operating scason. Overflow camping as accommodated in a large open area largedistally north of the Bouth Camparound. The Same area largedistally north lass been increasing at the rate of 15.20% each year and materials he met by the expension of Sacilities in the Sauth lands langth of stay. Since appending toly two-whires of langth of stay. Since appending toly two-whires of large and by additional polarity two-whires of large and both has only limited affects wereas.

Meeded

The construction of the new Waterman Compground will add 280 much needed sites. Fifty-four sites will be lost with the conversion of the Grotte to plenishing only, but this less can eventually be compensated for by edding approximately 70 sites to the present everflow area in the South Compground. He further compground development should be planned in Kion Conyon. A compground is proposed for the vicinity of Lava Foint and should be developed in conjunction with increased use in the adjacent area. He area compgrounds should be planned in conjunction with increased use in the adjacent area. He area compgrounds should be planned in conjunction with the new Yaylar Greek development. Recksometry camputes should be developed as this use increases.

Plenicking

Editing

Plenicking in Zion at the present time is confined to the sites in the South and Grotte Campgrounds. The use of viewpoints along the reads for plenicking is discouraged because of the lack of annitary facilities and the conflict in use with those using the termson for sight-secing. Since the compgrounds are often filled with campers during the busy season, this presents a difficult problem as there is no place for the ranger patrol to divert such use.

Reeded

It is planned and programmed that when the Watchman Compground is completed, the existing Grotto Compground will be converted to a walk-in plants area. This will be strictly a day-use area and should be large enough to handle all plantcking in Zion Conyon. The present group comping area in the Grotto will be redshighed for group plantching. This will be ideal for taking care of large groups such as family reunions, class picnics, etc., who are just in for the day. The South and Watchman Compgrounds can be used for additional picnicking when they are not full.

Master Plan, Chapter 3

Staff Activities, Section 3

Page 1

Office of Superinterscut Direct all operations to accomplish the Fark Mission

Secretary (Stenography)
Confidential aids to Supt : recolors and ecross telephone and
section of Lars accomps toocolors of Lars accomps toocolors of the colors are all accomps
to maintains land, mater, and
re Procords

Management Assistant, (proposed)

Provides Staff service in the fields of concession management, land ecquisition, press releases, and public relations.

VICTOR SASSESSED DATE: COM

Performs administrative services in accordance with established procedure and in the interest of the efficient operation of the entire Park organization.

PRESIDENT MANAGEMENT AND VISITION

Protects Park resources and facilities and the welfare of the Park visitors.

BEAR OF THE PROPERTY OF A STATE OF

Acquires, assembles, and preseats knowledge about the Fark for guidance in protecting Fark resources and enriching visitor knowledge.

OPENY ON AND MALE AND SERVICE OF

Operates and maintains the physical plant in a manner contributing to the efficient functioning of Park staff, to the welfare of visitors, and to preservation of Park resources.

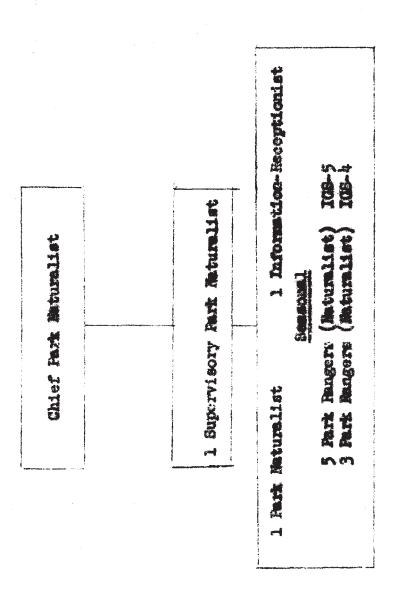
Muragement Assistant

Pipe Spring. Mirects all Operations in the Monument.

Are perent Assistant

Cedar Breaks. Directs all Operations in the Monument.

Administrative Officer Seasonal I Laborer, Ungr. 1 Laborer, Ungr. 1 Laborer, Ungr.	PROFESSION : 1 Sen. Supply Clerk (Storehooper)	(Froposed: 1 Clerk, Conf. for timekseping and project functions.)	PROCUREST: 1 Procurement Ass't. 1 Personnel Ass't.
GI .	1 Laborer, Ungr.		
	Chursonen, Uner.	Administrative Officer	



WEST DISTRICT	1 Supervisory Park Banger	General	1 Fire Control Aid		
PAST DIGNIET	1 Supervisory Fark Ranger	2 Park Rangers	Seasonal	6 Park Rangers (General) 106-5 4 Park Rangers (General) 108-4	

AND VISITOR PRODUCTION ZION WATCHER TO WATCHER THE

of Maintenance

1 Automotive

1 Automotive

2 Foreman III (Labover)

2 Sperator General

2 Sperator General

2 Sperator General

2 Sperator General

3 Sperator General

4 Sperator General

6 Labovers

6 Labovers

1 Foremen III (BAU)

PERATION OF PRESICAL PACILITIES ZION MATIONAL PARK

1 Building Repairmen
2 Caretakers
1 Disposal Flant Operator
1 Mintenanceman
Temporary Seasonal MAE
7 Laborers

STATE ACTIVITIES

OF ARTEAUTOR

Office of the Departmendent

Inetion: Directs all operations in the Park to accomplish the Park Mission in the best way possible.

Assigned Tasks: Plans, directs, supervises, coordinates, and evaluates all activities performed by the Park Staff as follows:

Training
Permunol Management
Piscal Management
Property Management
Operation and Maintenance of Recilities
Protection of resources
Public Services
Concossioner's Operations
Minor construction work
Programing

To the degree defined in, and in accordance with procedures described in the Administrative Namual, the Superintendent participates in long range management and development planning, with preparation of Master Plan Marrative, and in the programing and supervision accordance attraction projects. He provides numbership in, or limited with, boards, commissions, or other governmental agencies, of which the following are most important:

Five County Organisation
UMANNS, Incorporated
Utah Fish and Game Countssion
Utah State Land Heard
Bureau of Land Management, Salt Lake City
Utah Department of Righways, Salt Lake City
Uhited States Attorney's Office, Salt Lake City
Chambers of Counteree, Codar City, St. George, Kanab
Utah Tourist and Publicity Council, Salt Lake City
Utah Interagency Counttee for Regrestion, Salt Lake
City
Utah State Farks Counterion. Salt Lake City

Utah Recreation and Parks Association, Selt Lake City Dixie Mational Forest, Cedar City Soil Conservation Service, Cedar City and St. George Other local or regional commissions and citizens groups

Provides similar administrative direction over the affairs of two coordinated areas: Cedar Breaks National Monument and Pipe Spring Mational Monument.

Organization and Operation: The Park Superintendent is the officer responsible for all activities within the Park. Fark Headquarters is in the Visitor Center located near the south entrance to the Park, and this is the base of operation for the Superintendent and his staff.

Staff Required:

	Rotal Existing	Total Long Bunge
Superintendent	a	1
Management Assistant Secretary (Stemography)	1	1
	2	3
Seesonal	Rane	None
Facilities Required:	Signing	Additional Proposed
Park Headquarters		
Office rooms in		
Visitor Center	3	0
Conference Room in Visitor Center	1	^
	1	0 1
Residence #1 Apartment, 1 bedroom,	*	1
(permanent)	0	1 unit

Administration Division

Function: To perform the common administrative services, in accordance with established policies, procedures, and standards for and in the interest of the efficient operation of the entire Park organisation.

Assigned Tasks:

Frain personnel of the division in administrative service procedures and skills.

Perform procedures relating to recruitment, classification, and separation of personnel, and maintain personnel records.

Effect the proper utilization and controls of funds allocated to the Park.

Effect the procurement, storage, and issue of supplies and materials for the Park.

Effect the acquisition and disposal, and maintain records of accountability for all equipment and property.

Provide information and advice to the Superintendent and other Divisions on fiscal and personnel matters.

Assume finencial accountability for all Aunda appropriated to the Park.

Consolidate and prepare the Park's budget estimates for submission.

Maintain mails and files.

Effect time and payroll procedures.

Organization and Operation:

The Administrative Officer, reporting to the Park Superintendent, directs and coordinates the work of the Hivision. Staff is headquartered in the Park Visitar Center. A General Supply Clark (Storekeeper) is stationed at an office in the Warehouse, Fark Headquarters Utility Area.

Seasonal fluctuations in work lead occur at terminations of calendar and fincal years when fiscal, inventory and numerous other reports are required, also in spring bundling employment applications and other procedures sucreisted with addition of large numbers of seasonal employees to staff.

Advises the Superintendent and both advises and counsels the Management Assistants at Codar Breaks and at Pipe Spring and other members of Park staff on fiscal, purchasing, personnel, programing and other matters pertaining to administrative operations.

Staff Required:

Acceptance	Total.	Total Long Range
Administrative Officer	1	1
Permanal Management Assistant	L	1
Procurement Amiletant	1	1
General Sumply Clerk		
(Starokooper)	3.	1
Mail and File Clerk	1	1
Class-Bypist	1	ī
Clerk-General (Typist)		1
Total Pensarati	6	7
Sonatorial		
Charvenan .3 MX	1	1
Laborer .3 NY	1	1_
Total Seasonal	2	2

Pacilities Required

Park Resignations	Brighing	Additional Proposed
Offices in Visitor Center	4	0
File Rosa in Visitor Center	1	0
Storage Rusa	1	0
Warehouse with office, Utility Area	1	0
Residences #3,56; 38, 41, 42, and 46	6	1
Apartment, 1 bedroom (permanent)	O	2 vaits

Division of Besource Munagement and Visitor Protection

Paration: To protect Park resources and facilities, and velfare of Park visitors.

Assigned Tasks:

Supervise and regulate public use of the Park and Park facilities, including traffic control, comping and picnicking; and otherwise influence the safe and proper use of the Park.

Figs and carry out measures for the provention and the control of damage to Park forests, lands, and other natural resources by fire, insects, disease, crosion, or other causes.

Opensio two entrance stations for the purpose of collecting fees and providing information.

Perform resque or render other services in the interests of the velices of Park visitors.

Plan and execute measures to mintain the biotic associations of the Park in a natural state.

Secure conference to Park regulations and take initial action in case of violations.

Train division personnel in ranger division procedures and skills.

Train other personnel in fire opatrol and other exergency skills.

Advise the Superintendent, the Hanagement Assistants for Cedar Breaks and Pipe Spring, and other Park personnel on matters pertaining to protection of Fark resources and regulation of Fark use.

Opposite the and Spention:

The Chief Ranger, reporting to the Superintendent, directs and coordinates the activities of the ranger staff. The Park is divided into two ranger districts. The Hast District comprises 48,000 acres and covers Rich Canyon proper and most of the visitor use activities. The West District, a "back-country district", is approximately 100,000 acres in size and combains much of the true vilderness of the Park and a major share of the inholdings. The latter causes many situations afforting public relations, grazing trespass, hunter trespass, and other incidents requiring that and experience.

Various seasonal activities necessitate periodic changes in work assignments and the heavy visitation during the summer months requires the addition of seasonal rangers to the staff. This is necessary to provide increased patrol, to expand entrance operations, to require campground use, and to insure adequate Park and visitor protection.

The normal fire season occurs between June and September requiring additional manpower and increased patrol during this period.

known for seasonal employees, the employee training programs, timing of annual leave, research programs, and other activities, which are flexible as to timing, are adjusted to the seasonal work load demands.

Staff Required:

Permanent	Location	Total Existing	Total Long Bange
Chief Rark Ranger	Park Ring.	1	1
Aust. Ch. Fark Runger	Park Hilly.	1	1
District Ranger (East)			1
District Ranger (West)			1
Park Ranger	Park ling.		2
Park Ranger	Bast Ent.	0	1
Park Panger	Lava Point	&	
	Taylor Cree		1
Clerk-Typist	Fark Hig.	_0_	1
Total Fermanent		6	9
Sonoceni.			
	Park Hig.	7	12
Park Hangers 1 10	! Best But.	. 3	3
Fark Mangers 1 10	Daylor C	Caloer	3
Fire Control Aide .6 M	Lava Pots	rt <u>1</u>	3 3 2
Total Sessonal		11	80

Pacilities Required:

Headquarlers		Additional Proposed
Office rooms in Visitor Center First Aid Room in Visitor Center	3 1	0

Facilities Required (cost.)

Headquarters 2	Addition Propos	
Carage stalls for vehicle storage Rasidences #2, 14, 34, 36, 47, 13 Residences #26 & 32 Seasonal Apartment, 1 bedroom, (personal Apartments, Seasonal Dougltory (16 units) Fire Cache and Workshop	2 4 6 0 2 (Oblit) 0 0 1 3 0 6 5 0 1 0 0 1 0 0	mit mits
South Entrance		
Entrango Kicak	1 (oblit) 1	
Starth Compositions		
Campground Ranger Station	1 0	
Enterior Company		
Compground Ranger Station	0 1	
Best Entrance		
Residence Apartment, seasonal Fire Cache & Storage, Rgr. Mgnip. Entrance Kiesk	1 (remod) 0 0 3 1 0 1 1 (oblit) 1	mits
Lava Point Looksut		
Residence	0 1	
Fire Leokout, with quarters; vehicle & other storage	3 (oblit) l	
Taylor Creek		
Duplex Residence	0 1	
Apartment, Seasonal	-	mits
Willity Building	0 1	
Extranse Klosk	0 1	
District Ranger Station	0 1	

^{*} Primarily a smintenance facility, with fire cache and storage for ranger equipment included.

Interpretation and Visitor Services Division

Impetion: To determine, assemble, and present the facts about the Fark and its resources at as to guide the protecting of the Fark's resources, and to enrich visitor experience.

Assistant Course

Plane and operates the Park's interpretive program including curatorial services of the Park museum, study collection workshop, self-guiding trails, andiovisual programs, conducted trips, wayside and readside exhibits, exhibits in place, information service by all members of the Park Staff and the giving of talks on the natural phenomena of the Park.

Trains personnel in the procedures and skills utilized in the division, such as lectures, guided tours, and general public contact.

Informs other Park personnel on the resources of the Park.

Plans, supervises, coordinates, and performs research in the fields of geology, biology, history, and archeology, pertaining to Zion Mational Park.

Propures and publishes technical and popular publications related to the phonomena of the area.

Directs and supervises the activities of non-government cooperating agencies established in the Ruis.

fathers, oatalogs, and preserves natural science, historical and archeological materials of the Park.

Maintains Park Library of books, pamphlets, color alides, movie films, and photographs.

Maintains close relationship with scientific educational and historical organizations concerned with Park knowledge and interpretation.

Advises the Superintendent and other divisions on matters pertaining to interpretation and relating to the preservation of natural resources or materials.

Organisation and Operation

The Chief Park Naturalist, reporting to the Superintendent, directs and occulinates the activities of the interpretive staff based at Fark Readquarters, and aivises the Management Assistants at the coordinated areas of Pipe Spring and Cedar Broaks Matienal Manuscras. Proposed developments in the Epiph section of the Park vill require interpretive services in this area during the susper months.

Seasonal variation in work load in pronounced because of the group increase in visitation during the maths June to Ostober. This requires an increase in the interpretive staff and necessitates flexibility in work emigrations during the year, in order to accomplish the programmed activities and provide maximum service to visitors.

Staff Regulred:

Name of the last o	Total Existing	Speak Long Bange
Chief Furk Asturalist	1	1
Natural Lists	2	2
Information-Receptionist	1	1
Clark-Sterographer	0	1_
Trial Persanent	4	5
53333		
Materalists 4 MY (Rark Higher Cree)	;}	72
Total Seasonal	4	14

Pacilities Required:

Seedquarters	Exting	Additional Proposed
Office rooms in Visitor Center	2	0
Library moon in Visitor Center	1	O
Workshop-Starage Ra. in "	1	0
Exhibit room in Visitor Center	1	0

Facilities Required (cont.)

Ecolomy (September 1987)	Printers.	Additional Proposed
Information-Receptionist Lobby in Visitor Center Anditorium in Visitor Center Amphitheater, South Compground Amphitheater, Natelman Campfire Circle, Grotto Residences #35, 27, & 13 Apartments, 1 bedroom (Perm.) Deploy (measured) Apartments, Semeonal Dozmitory (16 units)	1 1 0 1 3 6 1 (0b): 0 4 unit	8 units
Martnerte, sessonal	•	2 units

Division of Operation and Maintenance of

Function: To operate and maintain all physical facilities in a manner contributing to the efficient functioning of the Park Staff, to the welfare and enjoyment of the visitors, and to the preservation of Park resources.

Assigned Testes:

Maintains reads, buildings, grands, equipment and utility systems (except radio, telephone, and power systems maintained by public utility companies).

Supervises maintenance contracts on roads, buildings, utilities, equipment, and grounds.

Performs or supervises minor construction projects.

Prepares Project Construction Program proposals, operating programs, and maintenance estimates.

Reviews construction specifications and Grawings.

Organization and Operation: The Chief of Park Maintenance, reporting to the Emperintendent, directs and coordinates the work of the maintenance division. The maintenance staff operates from the Park Managarters whility area. The Chief of Park Maintenance gives technical and engineering advice and assistance to Cedar breaks and Pipe Spring Matienal Monagents, and upon request, to Bryen Canyon Matienal Park.

Since the Bark is operated all year, the Bark requires a permanufactorif, supplemented by a small seasonal staff to assist in the maintenines of all physical facilities.

Telephone and power service and maintenance of all distribution systems, except at the Bast Entuance development, are provided by a public utility company. Radio service is by lease of equipment and its maintenance is performed by the leases.

Staff Reput sets

	Trial Belefdag	Notel Long Barge
Chief of Park Maintenance	1	1
Portuga	3	3
Bullment Constant	3	3 4
No. V. Common Specimen	1	1
Building Repairmen	1	1
Severge Plant Operator	0	1
Caretalgera	2	3
	ĩ	ĩ
	ī	ī
Clerk-Typist	<u>o</u> _	1
Total Persanent	13	17
Sensonal;		
Wage Hourd Employees (WAE)	14	20

Pacifician Beguired:

Int leadquarters	<u>Stating</u>	Additional Proposed
Ropeir Shop (Automotive) Carpenter Shop	1	0

Facilities Required: (cont.)

her Parkneyters	Ric		Bay ye	1114
Equipment Storage Offices in Ttility Area Office in Visitor Center	10 2 1	Stalls	8	Stalls
Residences #15, 37, 38, 39, 40, & 12 Domitory (16 units)	6	unita	3	

Language Printers

Summary of National Perk Service Staff

Superintendent's Office	Soin! Brighing	Total Iong Hange
Permiser: Semmons)	2 G	3 0
Administrative Division		
Permanent Sommeral	8	7 2
Resource Management and Visitor Pr	staction M	vision
Formations's Someones's	6 11	9 20
Interpretation and Visitor Service	a Divinien	
	8	å
Operation and Scintenance Division		
Permanent Sunscent	13 10	20
Lotal Permanent	31.	41
Sotal Sessonal	33.	56
Grand Total	62	97

TRAINING

The planning and ecomplishment of an effective training program require the sustained interest and co-ordinated efforts of amangement, supervisors, and employees. The objectives of training are to increase both the quantity and quality of the work performed by the individual employees. Training should, so far as time and funds permit, develop each employee to his fullest potential in the performance of his present duties and in preparing his for greater responsibilities. Training must be considered from the standpoint of the benefits to Zion Mational Park, the National Park Service, and the individual employees.

Exteting

- 1. Training needs are determined by discussions between the employee and the supervisor in conjunction with the following personnel programs: placement following, performance matters. "Plan for the Nam", and career devolopment and placement plans. Cheervations by supervisors, employees, and the Training Advisory Committee throughout the year have proven helpful in planning training. However, the Training Advisory Committee has been concerned almost entirely with training courses which are of general interest.
- 2. The existing training program utilizes the following sources in accomplishing training within the Park: Zion Mational Park employees (for both on-the-job and formal training) representatives of other Federal Government agencies such as the F.B.I. and U.S. Forest Service; representatives of state and local governments such as Utah State Department of Fish and Game, Washington County officials, Utah State Road Commission, and Utah Trade Technical Institute; representatives of private concerns such as the Asphalt Institute and Army Service Schools (for correspondence courses).
- 3. Training outside the Park is accomplished by attendance at courses conducted by the Department of the Interior, Bational Park Service Washington Office, Bational Park Service Regional Office, Bational Park Service Training Conters, General Services Administration, U.S. Civil Service Commission, U.S. Forest Service, F.B.I., and Stab Trade Technical Institute.

- 4. Safety training has consisted of weekly meetings for maintenance and protection personnel, monthly meetings for all employees, meetings for concession employees, and meetings with contractors' representatives. These sessions have utilized lectures, discussions, and films. We believe that this training has sided us in achieving a good safety record.
- 5. Annual orientation training is provided for the Utah Parks Company employees so inform them of the mission of the Mational Park Service in serving the visitors.

frequent.

- The Training Advisory Committee should make recommendations to the Superintendent concerning the training needs of individual employees and the means of providing this training, including recommendations for attendance at training courses outside the Park. Supervisors should make an increased effort to determine the training needs of employees and the available sources of the needed training and make their recommendations to the Training Committee accordingly. Employees should increase their interest in self-development.
- 2. Cross-training within divisions and where possible, between divisions, should be expanded. This would provide trained personnel to perform necessary work during the absence of employees on leave or during periods when positions are vacant. It would also improve the preparation of employees for future assignments.
- 3. A supervisory training course should be conducted every two or three years. All supervisors should be given training in budget, fiscal, personnel, purchasing and property matters at least, to the extent that they will be required to perform duties which are in, or closely related to these fields.
- 4. Possibilities to sponsor, jointly with other mational Park Service areas and other Federel Government agencies, G.S.A. courses within the Park or in nearby facilities should be explored. Such courses should be held if there is enough interest to make this practical.

- 5. The increased use of correspondence courses should be encouraged by management and supervisors and employces should excell in courses which will be beneficial to them in their present and future positions.
- 6. More effort should be made to determine sources of training in the trades and crafts. Such training could be held jointly with other parks and might be conducted by specialists from the Negional Office, larger parks, or private businesses.
- 7. Opportunities for attendance at training sessions both within and outside the Park should be provided for all employees who indicate an interest in development. Determination of who should attend training courses outside the Park abould be made in a manner to assure that as many employees as possible are given the advantage of this training.
- 8. More attention should be given to the adequacy of training for seasonal concessioner exployees, both in carrying out their assigned functions and their knowledge of Park Service principles. Periodic training sessions as the summer progresses will be necessary to achieve this objective.

STAFF FACILIZIES

Staff Housing and Community Pacilities

Government housing at the present time is adequate for personnel, and is located in three separate areas. The oldest of these is located up the Canyon from the Visitor Center and consists of three old, but substantial, sandstone dwellings plus the old administrative office building which has been converted to duplex spartments. The latter is presently used for sessonal housing and should be considered for immediate removal as soon as replacement housing is available. The other three houses, which includes the Superintendent's residence, are scheduled for removal when they have outlived their usefulness. This also holds true for all of the residences in the Oak Creek Canyon area directly west of the Visitor Center. The five three-bedroom houses and two of the two-bedroom houses are currently occupied by permanent personnel. The five one-bedroom cottages and one two-bedroom house have been provided with furnishings and converted to seasonal housing, making it possible to climinate the use of

house trailers for the NAME OF PERSONS ASSESSED. tion with divisional personnel needs. first time. STATE STATE bean itemined in connec-In addition, chere

Harity setherings is suited to some scrivitions, but is princy of the individuals quartered there. In addition, the high cast of heating the building sales it problem, the high cast of heating the building sales it problem. In addition, the to keep it open in the winter. The Visitor Conternation to keep it open used at times, but it is not entirely salts that or the type of activities that can be held there. The church building in Springsale of the seld No appendizio perovission is made valuation the Rent. The use of t the grade school in Springdale. limited possibilities because of size and church restrictions. To facilities are swallable for editor small or children's outdoor remarkational activities within the fact. An outdoor tennis and baskethall court endsts at is made for community activity use of the men's documenty for - Variable

Watchman residential area. Minimum facilities should consist of a slide, swings, backetball court, and tennis court, and will bely greatly to reduce the haund of youngsters playing on the streets. heated for special occasions during the winter months. play-ground should we planued and constructed in the The men's dormicary should be remodeled to provide additional space and the beating system should be replaced or modified so that the building could be re could be readily 7

Administrative Pacilities

Both the existing and needed administrative facilities are itemized by divisions with the personnel requirements but can be summarised as follows:

Visitor Center: This is the site of the pristry point of visitor orientative, interpretive services, and exhibits; includes all work and storage space for all divisions, houses all office and general services facilities. Is currently adequate and capable of space rearrangements for future changes in need.

Entrance Stations: The current entrance stations are located at the South and East Entrances to the Park. Both are outmoded and are programmed for replacement to used present and expending needs. A new entrance station is planned for the read into the Kolob Finger Canyons at Taylor Creak.

Comparemed Banger Stations: Registration for comping in the South Comparemed is currently being carried on in a small reconstructed building which is adequate for existing conditions, but will have to be replaced eventually. A new comparemed entrunce station is planned for the new 270-site Natchman Comparemed and should meet the needs of that area for years to come.

Wayride Interpretive Stations: There are none currently in existence, but will be needed at the Tomple of Sineways, Taylor Creek, and the lave Point area in the future.

Staff Pacilities

Concessioner

There are two prime concessioners operating in the Park at this time. The Utah Parks Company, a subsidiary of the Union Pacific Railroad, has the preferential contract for providing all visitor services within the Park, with the exception of saddlehorse trips. These are provided for by direct contract with Jack Church of Kanab, Utah. The Standard Cil Company operates a gasoline station as a sub-concession under the Utah Parks Company contract.

The Utah Parks Company, which also provides similar corvices at the North Rim of Grand Canyon, Rayce Canyon, and Cedar Breaks, maintains administrative offices, a commissary, and repair shops in Cedar City, Mixty miles distant. In Eight shops in Cedar City, Mixty miles distant. In Eight shops in cedar City, Mixty miles distant principal locations; overnight sleeping accompantion, seals, souvenirs, and limited compar supplies. From June through labor Ray. Eight located near the South Campyround, Spens in carly May and closes at the end of September. Approximately 160 employees, all some ing the yest season. All permanent employees of the Utah Parks Company reside in Codar City. Seasonal dorm thorics, for both single and married employees, are located at Elon Lodge and Elon Inn. Standard Oll Company has a single scritce station situated between Elon Inn and the South Company, and operates for approximately the seas period as Lion Inn. Both the prime contract and the sub-continet terminate on December 31, 1969.

cors at Kanab, Utanh. He generally employs a bead-wran-gler and two to three essistants at Lion. With up to 25 head of saddle stock, they are able to provide hour rides, 2-hour rides, 2-day rides, and all-day rides from a cornal located opposite Lion lodge. Overnight pack-The saddlehorse continue, which was negotiated as a separate continue with Jack Church in May 16, 1965, also terminates on Incomper 31, 1969. Mr. Church provides similar services under separate contracts it the North Rim of Grand Canyon and Bryce Canyon, and provides overall supervision of his operation from a central beadquarfor the wrangiers is presently provided by house trailer, but a persument bunkhouse is planned for the future. trips are available by special arrangements. Corrals and a barn for holding the horses overnight are located near the water storage tank in the Mirch Creek area. Bousing Corracts and

constructs and maintains the walks and the parking areas for their operations has been properly delineated in the contracts. The necessary utilities are also provided by the concessioners with the exception that the Service cluded in any of the concessioner's operations. No government-owned buildings or other facilities are inwithin the concensioner's assigned areas. Land use

MASTER PLAN

FOR THE PRESERVATION AND USE

OF

ZION NATIONAL PARK

Chapter 3, Park Organization Brief

- A. The Park Organization, General
- B. Office of the Superintendent
- C. Administrative Services Division
- D. Resource Management and Visitor Protection Division
- E. Interpretation and Visitor Services Division
- F. Operations and Maintenance of Physical Facilities Division
- X. Summary
- AA. Utah Parks Company

Prepared by	: Park Staff	Date	<u>Jan., 1964</u>
**** **	k de de la de 	kick kiki	***
Recommended	: Stant & Oberhandery Superintendent	Date	MAY 1 2 1964
****	******************************	****	*****
Concurred:	Chas. E. Krueger, Ch. Landscape Arch. Chief, Western Office, Design and Construction	Date	March 20, 1964
********** Approved:	**************************************		5/20/64

VOLUME 1.

Chapter 3, Park Organization Brief

A. Park Organization, General.

Zion National Park functions within the framework of this approved Master Plan and under stated delegations of authority, as defined in the paragraph on specialized assistance, in the National Park Service Administrative Manual, Organization Volume, Part 7.

In carrying out the responsibilities within the limits of authority so defined, the Park Staff is organized, and its functions are described on the following page:

Office of Superintendent Direct all operations to accomplish the Park Mission

٠.

Management Assistant, (proposed)

Provides Staff service in the fields of concession management, land acquisition, press releases and public relations.

ADMINISTRATIVE DIVISION

Perform administrative services in accordance with established procedure and in the interest of the efficient operation of the entire lark organization.

RECOURCE MANAGERENT AND VISITOR FROTECTION DIVISION

Protect Park resources and facilities and the welfare of the Park visitors.

INTERPREPATION AND VISITOR SERVICES DIVISION

Acquire, assemble, and present knowledge about the Park for guidance in protecting Park resources and enriching visitor knowledge.

OPERATION AND MAINTENANCE OF PHYSICAL FACILITIES DIVISION

Operate and maintain the physical plant in a manner contributing to the efficient functioning of Park staff, to the welfare of visitors, and to preservation of Park resources.

Management Assistant

Pire Spring. Directs all Operations in the Monument.

Management Assistant

Codar Breaks. Directs all operations in the Monument.

B. Office of the Superintendent

Function: Direct all operations in the Park to accomplish the Park Mission in the best way possible.

Assigned Tasks: Plan, direct, supervise, coordinate, and evaluate all activities performed by the Park Staff as follows:

Training
Fersonnel Management
Fiscal Management
Property Management
Operation and Maintenance of Facilities
Frotection of resources
Public Services
Minor construction work

To the degree defined in, and in accordance with procedures described in the Administrative Manual, the Superintendent Participates in long range management and development planning, with preparation of Master Plan Marrative, and in the programming and supervision of construction projects. He provides membership in, or liaison with, boards, commissions, or other governmental agencies, or which the following are most important:

The County Organisation
Ulah MS, Incorporated
Utah Fish and Game Commission
Utah State Land Board
Bureau of Land Management, Salt Lake City
Utah Department of Mighways, Salt Lake City
United States Attorney's Office, Salt Lake City
Chambers of Commerce, Cedar City, St. George, Manab
Utah Tourist and Publicity Council, Salt Lake City
Utah Interagency Commission, Salt Lake City
Utah State Parks Commission, Salt Lake City
Utah Recreation and Parks Association, Salt Lake City
Dixie Mational Forest, Cedar City
Soil Conservation Service, Cedar City and St. George
Other local or regional commissions and citizens groups

Provide similar administrative direction over the affairs of two coordinated areas: Cedar Breaks National Monument and Pipe Spring National Monument.

Organization and Operation: The Park Superintendent is the officer responsible for all activities within the Park. Park Headquarters is in the Visitor Center located near the south entrance to the Park, and this is the base of operation for the Superintendent and his staff.

30 30

Staff Required:

Permanent	Total Existing	Total Long Range
Superintendent Assistant Superintendent Management Assistant Secretary (Stenography)	1 1 3	
Sec sonal	Mone	None
Facilities Required: Park Headquarters	Bxisting	Additional <u>Proposed</u>
Office rooms in Visitor Cente Conference Room in Visitor Ce Residences pl and p42 Apartment, I bedroom, (perman	nter 1 2	O C 1 1 unit

C. Administration Division

Function: To perform the common administrative services, in accordance with established policies, procedures, and standards for and in the interest of the efficient operation of the entire Park organization.

Assimed Tacks:

Train personnel of the division in administrative service procedures and shills.

Perform procedures relating to recruitment, classification, and separation of personnel, and maintain personnel records.

Effect the proper utilization and maintain records and controls of funds allocated to the Park.

Assigned Tacks (cont.)

Effect the procurement, storage, and issue of supplies and materials for the Park.

Effect the acquisition and disposal, and maintain records of accountability for all equipment and property.

Provide information and advice to the Superintendent and other Divisions on fiscal and personnel matters.

Assume financial accountability for all funds appropriated to the Park.

Consolidate and prepare the Park's budget estimates for submission.

Maintain mails and files.

Effect time and payroll procedures.

Organization and Operation:

The Administrative Officer, reporting to the Park Superintendent, directs and coordinates the work of the Division. Staff is headquartered in the Park Visitor Center. A General Supply Clerk (Storekeeper) is stationed at an office in the Warehouse, Fark Headquarters Utility Area.

Seasonal fluctuations in work load occur at terminations of calendar and fiscal years when fiscal, inventory and numerous other reports are required, also in spring handling employment applications and other procedures associated with addition of large numbers of seasonal employees to staff.

Staff Required:

Permanent		Total Existing	Total Long Range
Administrative Officer Supervisory Accountant Personnel Management Assistant Accounting Technician Procurement Assistant General Supply Clerk (Storekeeper) Fiscal Accounting Clerk Time, Leave and Payroll Clerk Mail and File Clerk			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Clerk-Typis	Total Permanent	10	10
Seasonal			
Charwoman Laborer	. 1 MY . 1 MY	and a second sec	1
	Stal Seasonal	2	7. 4.1

3.

Facilities Required

Park headquarters	Existing	Additional Proposed
Offices in Visitor Center	5	O
File Room in Visitor Center	1	0
Storage Room	-	0
Marchouse with office, Utility Area	1.	0
Residences ψ^{π} , 21, 24, and 25	4 (Lt	•)
Residences (3, 0, 10, 11, 30, and 41	5	Ö
Apartment, 1 bedivom (permanent)	Ö	2 units

D. Division of Resource Management and Visitor Protection

Innation: To protect Park resources and Madilities, and welfare of Park visitors.

Assigned Tasks:

Supervise and regulate public use of the Park and Park facilities, including traffic control, camping and picnicking; and otherwise influence the safe and proper use of the Park.

Assigned Tasks (cont.)

Plan and carry out measures for the prevention and the control of damage to Park forests, lands, and other natural resources by fire, insects, disease, erosion, or other causes.

Operate two entrance stations for the purpose of collecting fees and providing information.

Perform rescue or render other services in the interests of the welfare of Park visitors.

Plan and execute measures to maintain the biotic associations of the Park in a natural state.

Secure conformance to Park regulations and take initial action in case of violations.

Train division personnel in ranger division procedures and skills.

Train other personnel in fire control and other emergency skills.

Advise the Superintendent, the Management Assistants for Cedar Breaks and Pipe Spring, and other Park personnel on matters pertaining to protection of Park resources and regulation of Park use.

Organization and Operation:

The Chief Ranger, reporting to the Superintendent, directs and coordinates the activities of the ranger staff. The Park is divided into two ranger districts. The East District comprises 48,000 acres and covers Zion Canyon proper and most of the visitor use activities. The West District, a "back-country district", is approximately 100,00 acres in size and contains much of the true wilderness of the Park and a major share of the inholdings. The latter causes many problems in public relations, grazing trespass, nunter trespass, and other situations requiring tact and experience.

Various seasonal activities necessitate periodic changes in work assignments and the heavy visitation during the summer months requires the addition of seasonal rangers to the starr. This is necessary to provide increased patrol, to expand entrance operations, to regulate campground use, and to insure adequate Park and visitor protection.

The normal fire season occurs between June and September requiring additional manpower and increased patrol during this period.

Organization and Operation (cont.)

Except for seasonal employees, the employee training programs, timing of annual leave, research programs, and other activities, which are flexible as to timing, are adjusted to the seasonal work load demands.

Staff Required:

<u>Fernaner.t</u>	Location	Total Existing	Total Long Range
Chief Park kanger	lant Hig.	ī.	1
Aget. Ch. Fark Ranger		-	1
District Ranger (East)	rark lide.	ì	1
District Ranger (West)		1	1
Fark Ranger	Fark Hdq.	3	2
Fark Ranger	East Ent.	Ĉ	1
Fark Ranger	Lava Foint 3		
	Taylor Creek	Ü]
Clerk-Typist	Park Mag.	<u> </u>	1
Total Perma	nent	71	20
Vecconal			
	rauti näg.	1.	
- Paris Ranjero - 1 1W	Sign of The same	Ē	3 2
Park Rangers 1 MY	Taylor Creek	Ĉ	3
Fire Control Aids .6 M	Lava Foint	<u> </u>	2
Total Seas	onal	22	20

Facilities Pequired:

Her Lunruers	Existing	Additional Proposed
Orrice rooms in Visitor Center	3	O
First Aid Room in Visitor Center	et e	C
Caraje stalls for wedicle storage		$rac{1}{4}$
Replaences #2, 14, 34, 36, /	;;	C
Residences 🔑 Šand 32	2 (Oblit)	0
Agartment, 1 bedroom, (perminent)	Ç.	l unit
Alarthento, Seasonal	Ö	6 units
Dormitory (16 units)	ú units	O
Fire Cache and Workshop	1	0

Pacilities Required (cont.)

South Entrance	Existing	Additional Proposed
Entrance Kiosk	1 (oblit) 1
South Campground		
Campuround Ranger Station	1	0
Matehosa Canpyround		
Canturound Ranger Station	Û	1
East Entrance		
Residence Apartment, seasonal Pire Cache d Storage, Rgr. Equip. Intrance Kiosa	l (renodo c c l (culto	3 2410s
Inva Police addicate		
Nepidence 1 ive Looks.co, with grantes:	÷	-
vehicle and other storage	3 (oblit) 1
Legilar Crack		
Duplem Residence Apartment, Deasonal *Utility Building Mitrance Missk District Manger Station	3 3 3 0 0	l + units 1 1

^{*} Primarily a maintenance facility, with fire cache and storage for ranger equipment included.

E. Interpretation and Visitor Services Division

Function: To determine, assemble, and present the facts about the Park and its resources so as to guide the protecting of the Park's resources, and to enrich visitor experience.

Assigned Tusks:

Plan and operate the Park's interpretive program including curatorial services of the Park museum, study collection workshop, self-guiding trails, audiovisual programs, conducted trips, wayside and road-side exhibits, exhibits in place, information service by all members of the Park Staff and the giving of talks on the natural phenomena of the Park.

Train personnel in the procedures and skills utilized in the division.

Inform other Park personnel on the resources of the Park.

Flan, supervise, coordinate and perform recearch in the fields of geology, blology, history and archeology, pertaining to Zion Mational Tark.

Trejars and public, technical and popular publications related to the phenomena of the area.

Direct and supervise the activities of non-government cooperating agencies established in the Park.

Gather, hatalog and preserve natural celence, historical and archeological materials of the Fark.

Maintain Fark Library of books, jumphlets, color slides, movie films and photographs.

Maintain close relationship with scientific educational and historical organizations concerned with Fark knowledge and interpretation.

Advise the Superintendent and other divisions . matters pertaining to interpretation and relating to the preservation of natural resources or materials.

Organization and Operation

The Chief Park Naturalist, reporting to the Superintendent, directs and coordinates the activities of the interpretive staff based at Park Headquarters, and at the coordinated areas of Pipe Spring and Cedar Breaks National Monuments. Proposed developments in the Kolob section of the Park will require interpretive services in this area during the summer months.

Seasonal variation in work load is pronounced because of the great increase in visitation during the months June to October. This requires an increase in the interpretive staff and necessitates flexibility in work assignments during the year, in order to accomplish the programmed activities and provide maximum service to visitors.

040	2.0	7-0-	 	
Dict	1.1	Requ	 1.0	 i

Fen innent	Total Emisting	Total Long Range
Chief Fark Maturalist	ر. غد	1
la curalista	Ž	2
Information-Receptionist	rs pola	1
Clerk-Stenographer	<u> </u>	<u> </u>
Total Permanent		5
<u>Beaconal</u>		
Maturalists .4 MY (Park Maqurs.) Maturalists .6 MY (Taylor Creek)	7	12 2
Total Deadonal	,	14

Facilities Requirem:

Nauguary, rs - E	3x2 0 0 2 1 2 3	Additional Proposed
Office rooms in Victor Center	2	C
Library room in Visitor Conver	-	0
Norkshop-Storage room in Visitor Center	ī.	٥
Ammibit room in Visitor Center	-	G
Information-Reception Lobby in V. C.	٦ - -	0
Auditorium in Visitor Center	<u> </u>	0
Amphileneater, South Campground	<u></u>	O
Augustneater, Watchman Campground	C	1
Campfire Circle, Grouto Campground	1	O

Meadquarters (cont.)	Existing	Additional Proposed
Residences No. 35, 27 Apartments, 1 bedroom (permanent) Duplex (seasonal) Apartments, Seasonal Domnitory (16 units)	0 1 (Oblit) 0 4 units	l 2 units 0 5 units 0
Taylor Creek		
Apartments, seasonal	Ĉ.	2 units

F. Division of Operation and Maintenance of Larsical Facilities

Aunction: To operate and maintain all physical facilities in a manner contributing to the efficient functioning of the Park staff, to the velfare and enjoyment of the visitors, and to the preservation of Park resources.

Apsigmed Tasks:

Maintain roads, building, grounds, equipment and utility systems (except radio, telephone, and power systems maintained by public utility companies).

Dujarvice maintenamed contracts on reads, buildings, utilities, equipment and grounds.

Perform or supervise minor construction projects.

Project Project Construction Program, projectly, operating programs and maintenance estimates.

Meview construction of collinations and drawings.

Or uniquation and Counction: The lark Engineer, reporting to the Syperfittendent, directs and coordinates the work of the maintenance division. The maintenance staff operates from the Earl Headquarters utility area. The Park Engineer gives technical and engineering advice and applicance to Cedar Breaks and Pipe Spring National Monuments, and upon request to Erroe Canyon National Fark.

Since the Park is operated all year, the Park requires a permanent staff, supplemented by a small seasonal staff to assist in the maintenance of all physical Pacilities.

Organization and Operation (cont.)

Telephone and power service and maintenance of all distribution systems, except at the East Entrance development, are public dided by a public utility Company. Radio service is by lease of equipment and its maintenance is performed by the lessee.

Staff Required:

Fernanent		Total Existing	Total Long Range
Fark Engineer		1	1
l'oremen		ź	3
Ngaipment Operat	orc	Ĵ	1 *r
Maintenanceman		 	1
Building Repairm	an	7	ì
Sewage Plant Ope		0	1
Caretakers		2	3
Mechanic		<u> </u>	AS.
Janitar		•. •••	~ - -
Clerk-Typist		<u> </u>	** **
	Total Permanent	13	27
<u>Dealbhal</u> :			
laborers (WW)	.5 MM each	10	20

Facilities Required:

lari: Neadquartero	Maisting	Additional Proposed
Repair Shop (Automotive)	- -	Ô
Carpenter Shop	<u> </u>	Ö
Equipment Storage	10 Stalls	U Stalls
Offices in Utility Area	2	0
Office in Visitor Center	1	C
Residences 0, 15, 37, 30	1.	3
Dormitory (lé units)	6 units	0

X. Recapitulation
Summary of National Park Service Staff

Superintendent's Office	Total <u>Existing</u>	Total Long Range
Permanent Seasonal	3	2; O
Administrative Division		
Permanent Seasonal	10 2	10 2
Resource Management and Visitor	Protection Division	:
Permanent Seasonal		9 20
Interpretation and Visitor Servi	ces Division	
Parkovaku Deusonali	\$. 	7 2 4
Operation and Maintenance Divisi	<u>.on</u>	
Pemianent Seasonal	10	20
Total Pendanen	37	4 5
Total Seasonal	30	56
Grand Total	C;	101

AA. Utah Parks Company

Utah Parks Company provides overnight accommodations, meal service and related services and facilities for visitors under concession contract, which expires December 31, 1969. Saddle Horse Service and a passline station are operated by sub-concessioners.

The concessioner operates at two locations: Zion Lodge, June through August, and Zion Inn, May through September. Necessary facilities and utilities for concessioner operations are provided by the concessioner, except that the Service constructs and maintains the walks and parking areas within the concessioner's assigned areas.

The Utah Parks Company maintains a year-round headquarters in Cedar City, 60 miles north of the Park. All of the company's permanent personnel reside in Cedar City. Seasonal employee dormitories are located at Zion Lodge and Zion Inn; a centralized utility-storage-horse barn area is located at Birch Creek.

HAPTER 4

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CHAPTER 5

MASTER PLAN

FOR THE FRE ERVATION AND UCE

OP

ZION NATIONAL PARK, UTAH

Cime to be a Decorate Administration

Drawing For tP-210-33 Police and Homes William a

Preparatiby: Jon R. Langue Property Description 1, 52

Language Archaese

Draving A proved / LONA STATES D. 1 - T. C. C. C. C.

Dominio Sign

General Considerations: Steep walls of colorful Navajo sandstone enclose the South Entrance Vicinity and with the Virgin River, Pine Creek and Oak Creek create natural boundaries for the major developed area in Zion Canyon. A Park road continues up Zion Canyon seven miles to a terminal parking area at Temple of Sinawava and the main road goes ten miles up Pine Creek and Clear Creek to the east entrance.

The relatively level Canyon floor is divided into two parts by the Virgin River. The river banks and irrigation litches nearby are wooded with cottonwood, bex elder, ash and willow. The absence of foliage in the winter months creates screening problems which should no given consideration in expansion of an area which is becoming more popular for lace full and winter use. The areas east and north of the visitor center are to be preserved "as is" for natural development and foreground for the view up the Canyon from the visitor center plaza.

The dryer portions of the Canyon and the surrounding value slopes are devered with pinon pine, juniper and oak brish, interspersed with court open deadows of jeteri grassed, cacti, sage trush, service terms on other recent plants.

The Park is many in this area was extended by Public Law 26-317. 3-713. February 30 1,60 and added those private lands required for expansion of Park facilities. Subsequently, these private lands have now been optioned, the typicon approved, and they are presently in the process of transferring title to the U.S. Covernment. These acquisitions have enabled the Service to complete plans for expansion of much needed facilities for visitor use and Park administration. The need for additional campground is paramount to all their expansion regularments. The long range plan for all sing Ground Campground farther up Zion Canyon and converting it to a may use thank area has been held up rescaled. If the need for the ranging space here and reinibate plans to change the last of the Ground and consolitate also calciums in the location has of the Ground and consolitate also calciums.

Circulation: The major circulation arrory is the read from the coth Engance to the East Engance of the Park. In this area it is located on the west side of the Virgin River. The road crowses the river just at we the confluence of Pine Creek and continues to the East Entrance. This 13 all read is a comment of through the Park for Utah State Highway 15, which comments U.C. Highway of (25 wifes weet if the East)

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with U.J. 89 (15 files east of he Park). This road is open and passable all year. All Park developments have their access from this road.

There are several important junctions in this area. The first one inside the Entrance Station provides access to the Couth Entrance Campyround and Zion Imm facilities. A little farther on is a junction for service access to the Oak Creek and Watchman facilities. Across the Oak Creek Bridge is the junction for the Visitor Center Parking Area. There are two service driveway junctions beyond this and then just across the Virgin River Bridge is the Zion Canyon Road Junction. This is a major junction for most all visitors who desire to make the Li make tround trip through seame Zion Canyon.

The existing circulation system works well; there is good separation between visitor traffic and service traffic. At the camparound-Inn area there is separation between the campground and the Inn traffic. Within the campground, signing is necessary to keep the traffic moving In the maze of one-way roads. It is proposed to widen an existing one-way road to handle two-way traffic to the 70 sites expansion area along he river solow the cappilre sirele and Inn. With the addition of this camping, the outer line road closes, to the main road will be Hisel and the area plan of as a buffer between the comping area and the road. The elredation to the Visitor Center is workalde, but not the most desired do. The majority of visitors still arrive via the folion distrance and they have difficulty in taking the left carn and going back into the parking area. The road alignment and adjacent torography have created the problem. It would be difficult to change the road alignment, but much could be accomplished by changing the torography adjacent to the road. Grading and clearing could open views of the Visitor Comer from the road for a thousand feet in eather direction. This would be worth several large roads the signs for lireating visitor truffic to the Center.

access to all Service facilities. The road is direct to the maintenance and shop area, parking is available for employees. The Oak Creek residential area is a spur off this road, and the upper cabin area is a spur off the residence road. These are both deadend roads without through traffic. There is no conflict of vehicles and walkers in the residence area as a walk on the north side of the road keeps walkers off the road. This walk continues from the dormitory along Oak Creek to the boadquarters service/staff entrance. Vehicle

access to the headquarters service/staff entrance is a spur off the service road near the main road. This crosses Oak Creek and terminates in a 20-car staff parking area, at the lower headquarters level. This is adequate for the normal staff functions, but during the period of maximum operations, and high seasonal employment, this is inadequate. Parking for 10 or 12 additional vehicles is proposed for overflow use adjacent to the paved area. The access to the Watchman residence area is a road from the headquarters service road and passes under the Oak Creek bridge of the main road. This road crosses the river on a single lane steel beam wood deck temporary bridge. The residence road is a loop with sites on both sides. The clearance under the Oak Creek bridge is only 10 feet and this restricts the size and type of vehicles that have access to this area. Vehicles too high to pass under the bridge can reach the area through the campground and the campground expansion area. It is not possible to increase the 10 foot clearance because of water and sewer lines and irrigation ditches at the site which could not be relocated enough to permit increasing the clearance. The temporary bridge to the area has to be replaced with a permanent structure. It would be desirable to have a walk on the outside of the residence road, like the Oak Creek area, to keep pedestrians and especially the children out of the roadway as the area expands and the volume of traffic increases.

The access to the proposel Watchman Campground requires a new junction with the main road. The point of this junction, about 600 feet inside the Park boundary, is ahead of the present Park entrance checking station. This requires a relocation of the entrance checking station to provide control of the facilities to be developed. The new station will be about 400 feet inside the boundary and 200 feet ahead of the junction. Studies were made of several other circulation routes to the expansion area. Any junction between the present checking station and campground-Inn junction would bisect the lower portion of the present campground, and render too much of the area unusable for camping. The amount of development planned for the expansion area is too great a volume of varied types of traffic to use the existing campground-Inn junction. A road through the campground would require reworking of the circulation to permit construction of an access road through the area. It was decided that a separate access and an independent circulation would be more desirable for operations, as well as easiest to develop with the least disturbance to the existing facilities.

The circulation within the expansion area is well divided between campground access and service facilities. The main road is aligned to serve the campground and make as much camping area as possible available without having long or unusually large camp loops. Any loop can be the terminus of the main road. This way the use of the area can be controlled and the camping can be progressively opened and regressively closed as visitation increases or decreases. From the upper-most loop a service drive will provide authorized access to the sewage treatment plant.

All service facilities will be located upstream of the main campground road. The proposed road about divides the area between the river and the edge of the talus slope. This will serve the maintenance areas, apartment and residence expansion, and provide a connection to the loop road of the existing residence area. The junction with the residence loop is on the lower side of the loop. This will follow generally the line of the sewer and have a better profile than a connection at the outer end of the loop, where an existing service road follows and crosses the irrigation ditch. The existing road is unimproved, narrow, and has a steep section which makes it difficult to improve to a standard for general use.

The additional roads proposed for the expansion in the area maintain a good separation between visitor circulation to public use facilities and service circulation to operational facilities. Traffic will not be concentrated at any access point so as to create congestion and a hazard during any peak season or time.

Visitor Use Facilities: There are both concessioner and Service operated facilities in the area. The concessioner operates the Zion Inn. This consists of the cafeteria, shop and store at the main building. There are thirty cabins for overnight guest accommodations. Eighteen of the cabins are double units so there are fifty beds or one hundred pillows for use in the area. Also located in the cabin area are a laundry, comfort station and a located in the cabin area are a laundry, comfort station and a located in the concession operated service station. For the present, it is proposed to retain Zion Inn without adding any new facilities. Development of additional overnight accommodations outside the Park may in due time obsolete the Zion Inn facilities. At that time the area occupied by their facilities could be replaced with facilities as required, possibly a camp center, showers, laundry, store, shops and cafeteris will be most needed. In time when any

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redevelopment is made it would be desirable to relocate the service station to a site less conflicting with the campground entrance.

The Service operated visitor use facilities are the 150 site South Entrance campground and adjacent 300 seat campfire circle, and the recently completed Visitor Center. The Visitor Center is in conjunction with the Park administrative offices. The visitor portion of the building is a large glass enclosed information lobby, adjacent exhibit hall, and audiovisual auditorium. Around the lobby is a covered view terrace. The via a west up Oak Creek Canyon to the Towers of the Virgin and Alter of Sacrifice are fine. The view north up Zion Canyon is fair, and the view east to Bridge Mountain is good. On the 100-car parking area side of the building are public rest rooms and a public entrance for the Park administrative offices.

The South Entrance campground is a 150-site camping area between the main road and the Virgin river. There is a designated area for group camping which, in addition to the undeveloped area upstream, is used for overflow camping. The campground is served by four comfort stations and there is also a comfort station at the group camp area. Camping is regulated through a campground ranger station at the entrance to the area, where a register is maintained. campsibe occupancy chart, campsite location and circulation plan, and other information and camping rules are posted. This station is operated by a ranger during the heavy visitation season, but also operates well on a self-service basis in the off season. Camping is very popular at Zion and during June, July and August exceeded the areas capacity daily. The overflow area was in continuous use and temporary sanitary and camping facilities had to be provided.

It is proposed to expand permanent camping facilities in the overflow area. This expansion will provide 70 new campsites and requires two comfort stations. When this expansion is completed there are 20 sites adjacent to the main road which will be closed. The fiture camping capacity of the area will be 200 campsites plus the group area served by seven comfort stations. This development is a less of 10 campsites in the overall plan for Zion Canyon for it is proposed to close the Grotto Campground farther up Zion Canyon, which has 60 sites and convert it to picnic use only. This action requires expansion for additional camping facilities in other adjacent areas to provide the necessary camping spaces for visitors. The area east of the Virgin River and south of the present camping area which was added to the Park in 1960 has been acquired for

expansion. This area has been under cultivation for a number of years and is irrigated by a network of ditches. Portions of the area are in orchard and the majority of the land was livestock pasture. The open pasture area will have to be planted with trees for camp shade and the orchard areas interplanted with shade trees, as the orchard trees will not long survive in a developed area. The network of lateral irrigation ditches will have to be redone to supply the new planting with water, but the major ditches will remain where they are with improvements for distribution to the lateral ditches.

The proposed campground will be separate from the existing campground. It will have a separate entrance road and campground ranger station for control. The arrangement will be camp loops of multiple individual sites. There are seven loops proposed with a total of 280 individual campsites. There are nine comfort stations proposed throughout the area. In the area will be developed a campfire circle for evening interpretive programs. This will have a seating capacity for 350 expandable to 500 and an adjacent parking area for 70 cars for those who may drive from their campsites or from other nearby accommodations for the evening program.

Camping expansion requires utilities extensions and the need for sewage disposal facilities becomes critical. The boundary extension proposal was justified partially on the need for a site for a sewage treatment plant that can handle the disposal for the South Entrance area development. The existing septic tanks and leach fields are overtaxed and create health hazards when they overflow. The site for the treatment plant requires a lift station for sewage, but allows for campground development in the greater portion of the area, and especially the area along the river.

The ultimate development provides for day use picnic facilities in the Oak Creek area when the existing Fark residential and maintenance facilities have been replaced by new facilities in other areas. This changeover will take some time. Five of the residences are comparatively new and can be expected to be adequate for thirty more years. Looking into the future, the possibility of a recreation development at the proposed Virgin Reservoir south of the Park will affect visitor use patterns. When authorization for the Virgin Reservoir of the proposed Dixie Project becomes a reality, changes and revisions in the visitor use facilities of the Park may be desirable.

Management Facilities: Existing management facilities are dispersed throughout the area. The smallest development is the old Head-quarters site adjacent to the main road, near the Virgin River bridge. This is comprised of three older but finer residences and detached garages done in native stone, and the frame administrative office building, which has been converted to temporary duplex quarters. It is proposed to obliterate the old office building as soon as other adequate housing is available. The three older houses are well sited, reasonably screened from the road and will not be obliterated until they are deemed inadequate, which may be fifteen or eventy years.

The largest complex of management facilities are located in Oak Creek Canyon. The new Zion Visitor Center contains Park administrative offices, work rooms, and storage for each administrative division. At the upper end of Oak Creek is the Park maintenance area. This is comprised of the fire station, warehouse, equipment shop, equipment storage and building and utility shops. This is an adequate maintenance operation center, but will someday be replaced by a new, more efficient central maintenance building at the site reserved for Laintenance in the Vatchian area. The Oak Creek residential arcu is in two very close units. The upper area is a carin area of four cabins and two central garages. The lever area has five comparatively new residences, three offer but substantial residences, two detached valuiple garages, one cottage and the tortitory. In the long rang. plan of redeveloping Oak Creak for viction day use facilities, the vaintenance and cabin areas and the cottage in the residential area will be the first to be replaced. The cabins and cottage could be removed as soon as more new housing is provided in the Watchman residence area. The three older houses will be adequate for fifteen to twenty years and the five newest houses for at least thirty years. The buildings in the maintenance area are substantial enough for a long time, but gains in officiency, handling material, werehousing and operations could be take by centralizing in a new building in the new area. As development is relocated to the Matchman area, the fire station will have to be moved to be more central for protection. When facilities are relocated and replaced and the area opened for vibitor day use, it may be that the structures which are native stone with heavy nimber roof frusing can be used as shellers rather than denolished.

The remainder of the management familities are located across he Virgin River in the Watchman Area. Much of this area, until 1960.

was excluded from the Park, and since its inclusion was only acquired for expansion in 1963. Development in the area began in 1961 when utilities and roads were constructed and subsequently five residences with three more added in 1962. There are sites for fourteen more residences and a multiple apartment building in the area. Below this area at the site of the present sewage disposal field, there are ten additional residence sites for future expansion. This residential area is barriered by a drainage wash from a side canyon. Just below this wash and partially screened in the small side canyon are sites for the Park and concessioner maintenance areas. Across from this site, along the river, is an area designated for apartment development. It would be desirable to develop these apartments first and utilize the site in the upper area for additional residences and have the apartments together rather than separated at each and of a rather long residential development. The housing requirements are always subject to revision and as additional management facilities are provided at other park areas, Taylor Creek, East Entrance and Lava Point, the facilities in the South Entrance Area may develop more slowly. The remainder of the area is devoted to visitor use facilities, except that small area east of the orchard and well Lack against the talus slope that will be utilized for a sewage creatment plant to replace the numerous septic tanks in the area.

Utilities: A more detailed discussion will be handled in a suplement to the design analysis accompanying a utility Master Plan. A general discussion of adequate and inadequate systems is included here.

Water: The collection from springs, storage in reservoirs and distribution system has been reworked considerably in recent years and the supply is adequate for some time to come. The quality of the water is good and there is no foresceable shortage for culinary use or fire protection even when the total expansion is completed. Water lines will have to be extended on the east side of the river for the expansion area.

Dower: The collection system operates adequately but the disposal by septic tank and leach field is inadequate. The effluent from the main septic tank has been surfacing in the leach field across from the campground for several years. Other facilities have individual systems, at least three in this area, each of which required maintenance. It is proposed to construct a sewage treatment plant and collect all sewage into one system

for treatment. Basically the collection system will work as follows: A new line on the west side of the road will collect the Old Headquarters sewage and intercept the Visitor Center system. A new line on the east side of the road will collect this sewage and intercept the Oak Creek system on the south side of Oak Creek. The Inn and campground system now join the Oak Creek line and cross the Virgin River in a siphon to the septic tank at the upper end of the Watchman residential expansion area. The Matchman residential collection system now intercepts this line just before the septic tank. A new line is proposed to intercept this septic tank and extend through the residential expansion area, maintenance and apartment area and campground area to a sewage lift station in the island of the campfire circle parking area. Comfort stations east and south of the lift station will be collected and routed to the lift station. The southern most comfort station in the existing South Entrance Campground has a separate septic tank. This can be intercepted when the new road and bridge are constructed and brought across the river and tied in also. From the lift station a force line will move the sawage to the treatment plant located above the orchard near the talus slope. The advantages of the site chosen is that it is well removed, screened by the orchard and trees along the irrigation ditch, the area could not be used for other development, the area along the river can be used for much needed camping expansion and the treatment plant can be a gravity flow design, and the capacity can be doubled in the enclosure by paralleling the initial plant system. The treatment plant proposed is a high rate trickling filter design of 100 M gpd capacity consisting of a primary clarifier, high rate trickling filter, secondary clarifier, digester and sludge bedo. The effluent will be chlorinated and discharged into the Virgh. River from a line parallel to the force main discharging between the campfire circle and camp loop "D".

Power: The park is served by commercial power from the California-Pacific Utility Company. There is a sub-station inside the mark just west of the South Entrance station at the base of the talue slope. There is a line on the west side, partially up on the talue, that extends up the canyon providing service to the park and concessionaire. There are several poles just nor h of the Visitor Center that are skylined in the view. It is proposed to relocate these few poles lower down so they have a background and are not skylined rather than relocate the entire line served

the river at tremendous expense to the service. There is a line east from the sub-station that serves the South Entrance campground and crosses the river to provide service to the Watchman area. Service for the Watchman campground, maintenance area, residential expansion and sewage treatment plant will be provided by the utility company from this line. Relocation and construction of required lines in the expansion area will be at the companies expense.

Telephone: The area is served by the Mountain States Telephone Company. Their line enters the park through the proposed campground area and is on the east side of the river and continues up to about Pine Creek and crosses to the west side as it continues up the canyon to serve the park and concessionaire. The concessionairs at Zion Lodge has requested additional service which the existing lines cannot accommodate and the company is contemplating increasing the lines by going underground with a cable. This would be desirable. There will be some relocation of lines and poles through the campground and expansion area and it is anticipated these will be made by the company at not cost to the service.

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MASTER PLAN

FOR THE PRESERVATION AND USE

OF

ZION NATIONAL PARK, UTAH

Chapter 5, Design Analysis, South Entrance Area Drawing No. NP-210-2114-E, South Entrance

Prepared by: Jon R. Larson
Lundscape Architect

Date: January, 1963

Lundscape Architect

Drawing Approved: 1 Clark Streetin Date may 58, 1963

Clast See Architect

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General Considerations. This is the South Entrance to Zion National Park. The area is in lower Zion Canyon, one mile north of the town of Springdale, Utah. The area encompasses the Canyon floor east and west of the North Fork of the Virgin River, from the South Entrance Station to Oak Creek on the north. The area is divided by the North Fork of the Virgin River. On the west side of the river, adjacent to the main Park road, are visitor facilities. East of the river is the Watchman residential area for Park employees. The west side of the river is fairly well wooded with commond, ash and willows which are supported by irrigation.

Circulation. On the west side of the North Fork of the Virgin River is the major Park circulatory road. This is a through road from Springdale to Mount Carmel, Utah, connecting portions of Utah Route #15. One quarter mile inside the South Entrance station is a channelized intersection for the Service road to Zion Inn and the South Campground Area. From this entrance, Zion Inn traffic is separated from campground traffic. Zion Inn has available parking space for 30 cars. There is a loop road to serve the Zion Inn cabins with parking spaces for patrons. The service station is adjacent to the campground entrance road. The campground circulation is a pattern of one-way roads serving campsites with a main two-way collection and distribution road generally in the middle. The proposed expansion of the campground to the north along the river will best be served by widening one of the one-way exit roads to accommodate two-way traffic, thereby dividing the camping area into three areas: southern, central, and northern. This will facilitate control and permit staging the use of the campground for slack seasons into one or two of the three areas. This will also provide easier access to the group camp area. The campground expansion area follows the same pattern of one-way camp roads, but will utilize camp loops and spurs for parking, rather than the cross-overs of the older camping area.

Access to the loop road of the Watchman residential area is from the Oak Creek service road and does not conflict with any of the visitor circulation routes.

Visitor Use Facilities. South Entrance Station is a control point at which rees are collected, information leaflets are distributed, and the Park road guide issued on how to use the Park. South Entrance Campground is the major camping area in Zion Canyon. There are 150 campsites now developed and it is proposed to add 60 more. The South camping area has 90 sites served by two comfort stations. The Cantral camping area has 60 sites served by two comfort stations.

Volume 1, Chapter 5 Design Analysis South Entrance Area Page 3

and the proposed Northern area will have 60 sites and be served by two proposed comfort stations. Adjacent to the Central area, next to the river, is a group camping area with a comfort station. Between the existing camping area and the proposed expansion area is a 300 capacity amphitheater for evening interpretive campfire programs. Zion Inn is a concession operation. Lodging is available in cabins. There are 30 cabins, some of which are duplex units, for a total of 48 units with a pillow count of 120. There is a dining area in the main building seating 100 guests with cafeteria meal service. A service station exists adjacent to the Inn for visitor automobile service.

Management Facilities. The Watchman residential area is located on the east side of the river. This area is being developed to replace facilities now located in Oak Creek Canyon, and those adjacent to the main road near the Virgin River Bridge. There are now eight new residences in the area and sites for 14 proposed residences, making a total of 22. At the north end of the area is the proposed seasonal apartment area.

Utilities. A detailed discussion will be made in conjunction with area utility drawings to be prepared in the future. It will suffice for now to say that water and sever service are adequate and will not be adversely affected by the proposed expansion. There is a sewage disposal problem for the Park generally, that will require corrected measures. Power and telephone service are provided by local utility companies.

Developed Areas
South Entrance Region
Page 1

Hovember 1958

master Flux Development Outline

Zion Mational Park, Utah

DEVELOPED AREAS - SOUTH ENTRANCE REGION

- (1) Name and Location. -- The South Entrance Region is adjacent to the south entrance of the Park and extends on both sides of the main road leading to Zion Canyon, terminating at the Virgin River Bridge.
- (2) Drawing Number of Corresponding Plan .-- NP- 10-0111-0.
- Principal Features of Interest. -- The steep canyon walls which enclose the area provide natural boundaries for the development. The Virgin River Bridge on the north and Park boundary on the south (12 miles spart) complete the enclosure of the area as a unit.

The Canyon floor is relatively level. Along the streams and irrightion distinction is a newly lover of conconwood and ash. The dryer portions of the canyon are spanishly wooded with pinyon pine, buniper, and buk brust, which are interspersed sith anall, open readows of desert prasses, casti and parabrush.

The Development Problem. -- Recause of the limited area available for development in Zion Canyon, any proposed facilities, either for public or Cational Park Service use, need to be carefully located to maintain the primitive character necessary for the enjoyment of the Park. Thus the development proposed has been concentrated near the fouth Entrance with the exception of the visitor senter and administration building, which are at the mouth of Cak creek Cenyon. Although the Cak Creek residential and utility areas are eventually to be abandoned, the necessity for use of these facilities for twenty or thirty years warrants their consideration in the overall circulation in the Regional Plan.

Alternate visitor center sites near the Virgin Siver Scilge and adjacent to the Tion Inc. tevelopment were accounted in Pavor of the Oak Greak Site. Limited space, ifficult topostaging and the impostage meeting of the Oak Greek Site offer unusual interpretive potential but Jound in the alternate sites.

Developed Areas

South Entrance Region

Page 2

November 1958

of National Park Service and public-use facilities. From the standpoint of circulation and physical improvements, this separation is accomplished by the Virgin River and its accompanying screen of trees.

() Principal Facilities

(a) <u>Sirculation</u>. The principal feature controlling the circulation is the South Engrance road extending from the South Boundary to the Virgin Fiver Pridge. This road is proposed for reconstruction. The major change include the following:

Realisment to bri. The road nearer Zion Inn and the service station, plus providing an access road to this development at a lower grade for trailer use.

Construction of a new Oak Oreak Pridge, approximately will rest east of the present bringe, plus a 100-car parking that to serve the processed visitor center.

in and dismal minor real, meet is proposed to wase the sharp ourve approaching the existing Virgin iven bridge from the south. Two public intersections on this road are proposed: one providing assess to the concession development, camparound and amphitheater and the other leading to the visitor center. Two other winor interplations provide for service traffic only. One provider access to the Ost Breek residential and utility area, visitor denter service court and whier the proposed data treek Bridge to the utility and residential development on the east side of the river. Convenience for service traffic flowing from the present Cak Dreck development to the proposed feathitles on the east ride of the river prompted the proposal of help service rosa under the lew Oak Oreen Bridge. The underpass also cancels the need for another service exit road which would be located on difficult topostagic in a cut section of the propose : main o polici and recond service rost leads to the proposed the imentional and untility area from the cuti Entrus

Developed Areas South Entrance Region Page 3 November 1955

(c) Visitor dec. -- Existing visitor ase facilities include Zion Imm, cafeteria, gift shop and 30 cabins, service station, 110-site campground and an amphitheater.

Proposed facilities include expansion of sampground by about 30 sites, addition of about 75 parking spaces for amphitheater and Zion Inn, and a trailer village of 40 sites to be operated by the concessioner. Although the trailer village is shown as a proposal it would seem wise to reconsider ather or not this development is decessary. Aniemation from add personnel indicates that a small, modern trailer court will be constructed this winter in Springhale and that other private concerns may be contemplating similar construction.

Because of National Park Service policy not to develop facilities which can be provided outside the Park of private enterprise, it became device to construct a trailor viluage to near a similar outside sevelopment. Lack of space misable for this development inci a the Park is an additional abadvantage.

ind existing museum near the Virgin Piver Tridge is to se replaced by a visitor senter at the month of O_{NN} (reek, plus an accompanying loc-cor parking area.

(c) <u>Servi c.--didating service facilities include the Folic inj.</u>

Rest offial and willity area containing ly residences, 2 for er domitories, and willing building.

the age yard on the east side of the Virgin Ricor con wining an obsolete residence, some outlated some age sheds and a seasonal employees' trailer area.

We we residences and a mail while buildings was to direct diver holds.

Developed Areas
South Entrance Region
Page 4
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east side of the Virgin River will provide space for a new residential and utility area. Additional seasonal and permanent housing are needed to supplement the existing facilities. In addition, no expansion of housing is contemplated in the Oak Creek area and space should be available in the new area for replacement of both residential and utility buildings as the existing structures become obsolete.

A sixing circle and crushing plant are proposed for the dream the east side of the river now which had a sometiments.

(:) Utilities

Water -- The Audinary Water System is generally antichator. Poture needs will be handled by auditional veryics and storage for the new residualities of inity areas. The present irrigation of the visitor veries to utilize more effectively the symbols of play.

Dever. -- its establing disposal system across the river from Oak Greek will be abandoned in favor of a site east of the proposed residential and utility area. This site is approximately 50 feet above the proposed system and will require a pumping system.

Power -- . Treaser substation and power line along the torms along the west side of the Canyon are emposed and directly in view from the main Parametric. A proposal sow under negotiation with the California Facili. Power Company provides for relocating the direction and power line on the east side of the Canyon, behind a screen of trees bordering the Virgin liver. Service to the Oak Greek visitor center and residences will be on a dommon line with the existing telephone service which is located investly sides and telephone service which is located investly sides and to Oak Greek. The main line, as proposed, will re-cross the Virgin Siver and the Park road alout of the telephone the Virgin Siver Bridge and testing to the virgin the three residences and Park office.

Developed Areas South Entrance Region Page 5 Dovember 1988

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Prepared by Honald N. Mortimore, Landscape Architect Date 11-1-38

Name and Title

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MASTEE PLAN

FOR THE PERSIFVATION AND USE

OF

ZION NATIONAL PARK, UTAF

Character of the test Allenger

Drawing No. NP-ZIO-3340-A, Fact Entrance with Utilities

Prepared by: Jon 1. ker or Date: February, 1963

Emplocape Architect

Date: Pebruary, 1963

Date: Pebruary, 1963

February, 1963 Fev. February, 1964

Volume 1, Chapter 5 Design Analysis Zion Fast Entrance with Utilities Page 2

General Considerations. The area is in the higher desert region near the Park's easternmost boundary. Here the East Entrance Road follows Clear Creek Canyon to the tunnel and down Pine Creek Canyon to Zion Conyon. There is a need for increased facilities, of a permanent type, to permit operation of this Entrance Station on a year-round hards.

Year-round operation was discontinued does jours ato because the utility system and residence were not adequately insulated for winter operation. The need to haul water, because there is no supply in the area, has been a deterrent to needed year-round operations. The Irilling and proving of a weight in the same in apply with eliminate the water supply problem when the water system is constructed. The need to generate electric power has been a deterrent to needed year-round operations. The prospect of a commercial source of power for the area in the near future will eliminate this problem.

Permanent operation of this station by a Resident Permanent Ranger will provide direct and proper supervision of entrance see collection and other entrance station activities. Permanent operation will allow such present basic Park profession and visitor contact through out the year than two be provided as the area from Purk Heavister in Ston Caupon. The excellent associates with hortin, adjusted to the Park, livestock assents and treapers, road ere encies and valities are soft the Part For areas can most event to the hortin to the Hant Entrance.

The Perk record show that I ring Jome, Jily run Aliast, vehicle fees collected at the Best intrince whose of the Booth Burrance. In this trend continues the operation of the Fest I trule Station which have to be expanded or a delly and removal but it. The best of continual laws the follower indiction for per consoling the or a data from the laws them normate whose Park Heavequeter in the burlen. Community, and the northy and distribute to coordinate I also or a selection of the other of the first of the law of the continues to the bidding from Mt. Common and if the life of the laws of the continue to be a first of the laws of the removal. Travel is care to continue to increase after the lawshop the removable and the Oten Conson National Leonardion bear continues of Luke Powell and the Oten Conson National Leonardion. The Fact Entrance of Jion National Park must be as velowed to operate writing the life increase formula to here we look its operate writing the life increase formula to here the Pork of its operate writing the life increase.

February, 1963 For Formary, 196

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Circulation. The approach was account road in Utan Highway g15. It extends through the Para From the east, through the South Entrance and connects U. S. Highway 300 on the west of the Park with U. S. \$60 on the east of the Park. The road is important economically, as the southernmost paved connection between these two U.S. highways in the ragged canyon country of souther: Utah and northern Arizona. There is non-Pack traffic to be contended with until another road is constructed to connect the two J. S. biglways and bypass the Park. This area is the beginning point of the East Rim truck trail which is an administrative road. It is a long-range prorosal to improve this for visitor access to some of the scenic East Rum view points to disperse the increasing wintton are of the finite: area of Zion Canyon. The Poiti is 100 seet of the track road is very steep; grades are in excess of 2 percent. To serve the area's small development and improve the grades at the start of the Fast Rim Road, a change in the alignment of the road is necessary. The grade of the East Rim Road can be reduced to less than b percent, and access to the area's development will be around 5 percent. Interior circulation for the developed area will be a 2 U-100% by 12-foot wife pour road driveway to a paved 36-lost by 16-foot service court for the residence an number storage business with a facer sarking so or for the wartament bulliance

Visitor Use Facilities. The Bare Entrances Station for collection of vehicle reas and distribution of Park in promotion punchast, it existing. This is the initial contact with all visitors arriving from the east to visit Zion National Park. A comfort station is proposed to serve visitors entering or leaving the Park at this point. To accommodate visitors should not for the comfort station of for information from the manger of duty at the Entrance Station, widered parallel parking for Station are is proposed on each offer of the road at the Entrance Station. Until visitor use facilities are developed in the East Rim area, the Fact Fix truck trail visits are developed in the East Rim area, the Fact Fix truck trail visite he restricted. When the road improved and opened to visitor use, or information contact station should be developed at a site near the beginning of the road by away from the entrance station to a lot to conject the Fitral convey from the entrance station to a lot to conject the Fitral constitution overstion.

Management application. In solution to the loss since observe, and one moves, a size of one is itense externed in the area. The end of property of the end of the end of the order of the end of the order of the ord

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Volume :, Chapter 5 Design Analysis Zion East Entrace with Utilities Face :

for housing other personnel to operate the fatrance Station. The apartment will be four units and constructed for year-round and it necessary. A garage and storage building is needed for equipment and supplies. The two existing structures are stone masonry exteriors and a harmonizing type of block exterior will be used on the new structures. These minimum facilities will permit management to provide adequate protection to the high east country through year-round control and surveillance.

Utilities.

Water. The existing system is a small concrete storage tank and shallow line to the residence. The water is handed from Mich. Canyon to the storage tank by truck. This system will be abandoned.

As a part of the proposed system a well was duilled in the summer of 1,62, about 200 feet northerly of the Entrance Station, and 300 feet easterly of the residence. This well is 26.5 feet deep, with a water level of 365.82 feet, with an estimater yield of 10 to 20 gmm. This well will be utilized as the source for a new water system to curve the area. The new system sile be constructed for year-round operation. From the well, water will be pumped to a 40,000 vallor steel reservoir about 300 feet north of the area and 100 plus feet higher. The cill provide adequate storage and pressures for longstidence, as well as if a cotection for the development.

Sever. The existing residence and trailer is served by a small septic tank. This will be abandoned and a collection and disposal system constructed for the whole area. The residence, apartment and comfort station sewage will be confected and treated in a 4,235 gallon septic tank. The septic tank and leaching field will be constructed across the entrance road from the development and the west. The new system will be constructed for year-roads or ratio.

Power. The existing residence and intrance Station are served by a small generator in a balading 100 feet northwest of the residence. This system is not adequate for the expansion of the area. Commercial power will be available in the near future. The Garkane Flectric Cooperative Association properes to entend service to invelopment along the Mu. Carmed highway. Very little additional line will be required to include on development. The power will be overbead like construction on the north will on the Perk tour in this will not intende on the Park view of the levelopment at the objection will appear them in the short distance to reach the levelopment at will appear them.

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East Entrance with
Utilities
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at least 300 feet from the road. Except for the present operation and the need to pump water, commercial power will be available for development. It will require generated power in the interim to pump water to enable the Park to discontinue hauling water to the area from Zion Canyon.

The service to the apartment, parage storage building and residence will be overhead. The service for the well, comfort station and entrance station will be underground. These lines can be direct burial in the water line trenches which is a direct routing to each facility.

Communications. There is an existing field telephone line to the area from Headquarters. This is erratic and very appredictable. Radio is a more dependable type of communication. The improvements made in recent years in the Park radio system have made obsolete the field telephone. When commercial power is available for the East Entrance radio equipment, it will have a dependable radio communication with the Park fixed and mobile units.

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MASTER PLAN

FOR THE PRESERVATION AND USE

OF

ZION NATIONAL PARK, UTAH

Chapter 5, Design Analysis, Oak Creek Area
Drawing No. NP-ZIO-2115-C, Oak Creek

Prepared by: Jon R. Larson Date: January, 1963

Landscape Architect

Drawing Approved: Conrad L. Wirth, Director Date: May 12, 1958

Volume 1, Chapter 5 Design Analysis Oak Creek Area Page 2

General Considerations. The area is in lower Zion Canyon, one and a half miles north of Springdale, Utah, the Fark post office. Oak Creek is the drainage of a large natural amphitheater in the west escarpment of Zion Canyon. Oak Creek connects with the North Fork of the Virgin River, which is the principal stream in Zion Canyon. The steep walls of colorful sandstone which enclose the Oak Creek amphitheater, are known as the "Towe of the Virgin". Two very prominent towers are the "Altar of Sacrifice" and the "West Temple". This area is not available for public use as it is presently the major Service housing and maintenance area for the Park. It is a long range objective to make Oak Creek Canyon available for public day uses when Service facilities are developed elsewhere.

Circulation. On the west side of the North Fork of the Virgin River is the major Park circulatory road in the area. This is a through road from Springdale, Utah to Mount Carmel, Utah, connecting portions of Utah Route #15, which is a State road connecting U. S. #91 (Interstate #15) and U. S. #89. Three-quarters of a mile inside the South Entrance Station is a channelized intersection for the entrance to the Visitor Center parking area just west of this road. This parking area will accommodate 100 automobiles with added space for busses and towed trailers. One-half mile inside the South Entrance Station is the Oak Creek Road junction. The Oak Creek Road is for Service access to Headquarters, Oak Creek Residential Area, Oak Creek Maintenance Area, and the new Watchman Residential Area. From the Oak Creek Road there is a spur road to the back side of the Visitor Center terminating in the Administrative parking area which has a capacity space for 20 vehicles. From the Headquarters spur road an access route extends to the Watchman Residential Area. This road follows Oak Creek to the Virgin River and crosses an old one-way bridge to the Watchman Area. It passes under the main Park road at the Oak Creek Bridge and this arrangement works very well in separating Service traffic from visitor traffic. The Oak Creek Road from the Headquarters spur junction continues to the Residential and Maintenance Areas. For access to the Residential Area north of Oak Creek, there is a paved dip crossing of Oak Creek. The road continues a short distance beyond the Maintenance Area for access to the Oak Creek Springs and water reservoir part of the area water system.

Visitor Use Facilities. Above Oak Creek and the North Fork of the Virgin River is the natural amphitheater of the "Towers of the Virgin" and the Zion Canyon is the Zion Visitor Center. The main focal point

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of the Visitor Center is the glass-walled lobby and surrounding terrace with its spectacular views north and east in Zion Canyon, and west in Oak Creek Canyon. In addition to the spectacular lobby, there is an audio-visual room and an exhibit room devoted to enhancing the visitor's appreciation of the Park. There are comfort station facilities here for the visitor. Adjacent to the visitor facilities are the Park Administrative offices. The combined Visitor Center and Park Headquarters constitutes a large and imposing structure.

Management Facilities. Within the Oak Creek Area there are administrative, residential and maintenance facilities. The Park Head-quarters Administrative offices are combined with the Visitor Center discussed above. In this one location are included all the staff office for Park administration. This facility is new and permanent and is integrated with the long range plan that will eliminate the other management facilities in Oak Creek and make the area available for day use visitor facilities.

Oak Creek Residential Area. This area on the north side of Oak Creek contains 11 various residences and the ranger dormitory, plus 5 garage-storage outbuildings. Of these residences, 5 (Nos. 6, 11, 14, 15, 17) are of recent construction and have an estimated useful life for 25 to 30 years. These are three-bedroom residences with attached garages built in 1950. The ranger dormitory is in good condition and can fill a seasonal housing requirement for many years to come. Three small cabin residences (Nos. 24, 25, 26) can be eliminated along with the adjacent outbuildings as soon as replacement housing is available. The three small residence units (Nos. 8, 9, 10) within the main housing complex fill a need for housing of limited size. These units will be needed for some time to come as replacement housing of this type is not presently programmed.

Oak Creek Maintenance Area. This function will be relocated to a new and larger site as soon as land acquisition of the South Entrance boundary expansion area is completed. None of the present structures are entirely adequate for the function they are performing. In addition, there are numerous maintenance outbuildings in other Park areas that will be centralized at a new site.

Utilities. A detailed discussion will be made in conjunction with area utility drawings to be prepared at a later date. It will suffice for now to say that water and sewage systems in the area are presently adequate. There is a sewage disposal problem for the Park generally which will require corrective measures. Power and telephone service are provided by local utility companies.

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MASTER PLAN

FOR THE PRESERVATION AND USE

OF

SION WATIONAL PARK, UTAH

Chapter 5, lesign analy is Drawing No. DF-7I: -3335-A, Taylor Creek Entrance

awing Approved: A. Clark Stratton Late: Fuguet 32, 1 12
Acting Director

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Taylor Creek Entrance
Zion
Page 2

General Const erations: Taylor Creek is in the northwest portion of 2. In Mational Park known as the "Kolob Section". The site is counded by U. S. Highway 91 (Interstate Highway U. S. 15) on the west and the Hurricane Cliffs on the east. Public Law 86-387, 86th Congress, approv d February 20, 1360, established the Park boundary as the easterly right-of-way line of U. S. Highway 91 (Interstate Highway 1. S. 15), in Section 29, 138S, K12W. This Act provides that the State of Utah construct an interchange which will provide venicular access to 7 on National Park. This interchange is located near the south line of said Section 29. (A copy of the Act is attached as Exhibit 1.) There is an area approximately 600 feet wise, east to west, from the nighway to the base of the Hurrican Cliffs and 3,600 feet, north to south, from Taylor Creek to the interchange. This area is available for Service development to manage, protect, and operate this portion of the Park. There will, of course, be a new entrance from the interchange on U.S. 91. There is mostly grass and brush cover, except for a limited number of Utah Juniper near Taylor Creek. The slopes of Hurricane Cliffs are wooded with Pinon and Juniper which provide a background for the development as it will appear to the multitude of travelers on U. S. 91. There are no existing MPS facilities or improviments. There is an existing portion of the agandone two-lane U. S. 91 read with the culverts for Tiples Greek to livel. Adjacent to this of an older nation con here bridge of an Laylor Greek. There is a Mountain States Tolkphone Company 12-wire toil line traversing the area north to south, approximately 250 feet east and parallel to the Interstate right-of-way.

There I one parcel of private land within the park councily and advient to the interstate nighway. This parcel is when ly Mr. will J. Graif and consists of 27 acres, more or less. A porture of the old unused roadway of highway of traverse this posel. Or this private holding are an alandoned source, fences and unused stock watering reservoirs. The diversion in Tay in Creek to supply the stock reservoirs has been washed away. The stream channel has cut deeper than the federal ditch or render the diversion and ditch inoperative. This parcel will not be affected with the immediate service development but the acquisition is of great importance to prevent encrosument of uses.

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The lands outside the Park boundary are also in private ownership and presently used for agriculture or held undeveloped. Mr. E. J. Graff owns those lands north of the boundary in Section 20, as well as those west of the Interstate right-of-way in Section 29, and the west half of Section 32 to the south.

Mr. William A. Barlocker owns the east half of Section 32 on the south boundary. In Mr. Barlocker's parcel are the abandoned workings of the Epsolom Mine which have scarred the face of the Hurricane Clitts escarphent. Undoubtedly, access to these two properties in Section 32 will have to be provided from the Zion National Park Interchange by a frontage real as there is no other access provided from the Interchange connection to the old Highway 91, and those north of the boundary by a connection at the New Harmony interchange with old Highway 91. It will not be necessary to maintain a connection with old Highway 91 to the north of Taylor Greek, except for Park administrative and protection purposes to this small area after the innolding is acquired.

The parcel of land within the Park boundary in the west full of Section 23 adjacent to the interclarges, that has adjacent to the interclarges, that has adjacent to the Interstate right of each wide stock driveway parallel to the Interstate right of each line the park boundary and the right of way of unused Highway 91 to the lands north of the Park boundary. When acquisition of the Graff parcel of land within the park is completed and the service would desire the state of Utah Highway Department to quit claim the unused Highway 91 right of way the stock driveway could be extended parallel to the interstate right-way to provide a continuous stock driveway connecting property on the month and with of the Park.

This new development is projosed as a part of the approve cobjectives and policies (Volume I, Chapter I of the Master Flan Marrative) for extended visitor access to portions of Mich Mational Park. The area beyond this entrance is spectacular enough to complete with Mion Canyon, and will distribute the visitor use to that the Park may provide it full measure of public benefit and enjoyment. Maylor Free full measure for the road to increase take, see Edds, such the Timber Creek Overlook terminus. This opens much of the greater Kolob area for the visitor. There are scenic mass.

Volume 1, chapter of Design Analysis Taylor rock Entrance Nion

of Tucapit and Paris Points, Force Fallon Resolvin, The Fall Fingers, Timber Creek, Nagunt Mesa, Shantava Butte, and Timber Top Mountain. There are connections with trails anto the Middle Fork Canyon, and the La Verkin Creek and made where the Kolob Arch and Death Point are located.

Circulation: The approach to the area is from the Zion National Fark interchange on b. S. Highway Sl (Interstate U. S. 15). At the interchange east exit begins Park Route 7. This Fark road up Taylor Creek to Three Porks, Lee Fabl, and the terminus at Timber Creek is six miles. This road construction project is now in progress. The initial project is for grading and drainage of about three miles. The second stage will be for grading and drainage to the termina. The third or completion stage will be for base and surfacing of the entire project. It is now anticipated that all road work will be completed for Visitor Use during 1966.

In addition to this Park major road, a secondary road will be required to serve Park administrative requirements. This will provide access to an employee residential area, and Park district maintenance shop and yard. It will be made day to provide an access to two percels of private land betwies the Park boundary to the south.

The entire development is visible in all or part to the multitude of travelers on U. S. el. . . mis requires that the roads be fitted to the terrain as closely as possible to minimize the scars. During the three years that the major road will be under construction, the contractor will be hauling road materials from a borrow area 1-1/2 miles nort. of the north Park boundary. To facilitate this haul clu Highway 91 will be used as a haul road for construction. From just south of the Taylor Breez crossing, a naul rough will have to be constructed to connect with the Taylor Creak Entrance road. Inis portion will be established on an alignment that will be incorporated into the Service road system when the construction is completed. (inculation ...) teen planned to permit the Service to proceed with its construction program of employee housing, maintenance facilities, utilities, etc., and not conflict with the contractor's hauling on the access road. There will be no haul road to obliterate if it is located on an alignment that will serve Service facilities in the future. There will be no conflict in traffic or space that would delay other Service sevels, ments in the area.

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All roads will be all-season roads open all year. Some show removals and sanding will be required during the winter months. This is not anticipated to be a major problem in the entrance area or on the Taylor Creek road.

Visitor Use Facilities: An information station with public rest rooms is proposed at the entrance. This will be a modest facility combined with the district ranger Administrative Office. The need is for general park and read information which cannot be successfully dispensed at the entrance kloss when the fee is collected. Other facilities will be located at specific places along the read and will consist of implicational places, signs and markers for information and interpretation of the area. An interpretive shelter is proposed at the read terminus for the Timber creek evenlose. This will be a contact and interpretive information station operated on seasonal basis. Day use picnic facilities are proposed for the Three Forks Area.

No campground or concession facilities are proposed.

Management Facilities: his area of deniles from For Headquarters via State highways. Heare are connecting Park roads and no proposals to construct any connecting Park roads because of the tragile nature of the terrain, or because there is no area to develop visitor of Fark facilities in narrow LaVersin breek Canyon. Administration of this area will be supervised from Fark Headquarters in Aion Canyon. A district ranger will be administratively in charge of the area. Minibun administrative space will be combined with the entrance information station. A small maintenance yard and storage shop building will serve to sinings maintenance operations for the area.

housing will be required for the orea staif. Those employees will afford the area additional protection as well as commonore readily available for emergencies. The finitum requirement for the area are considered to be:

- 2 Employee Residences, 3-Bedrooms each
- 1 Employee Puplex residence, 2-decrooms edc...
- 1 Employed Apartment, four-Unit

the residential area was selected to provide the complete the most privacy from the Interstate highway as well as the the Taylor Creek load. It is the most quitable terrain for residential construction; good slope for drainage, not be quiring large cuts or fills; it takes advantage of the scattered junipers for screening; the group is easily screen

December 1992 Rev. June 1904

Volume 1, thapter 5 Lection / Inalysis that and the contrarce from Tage 2

with utilities; the seasonal housing is separated from the permanent housing; both are convenient to the entrance; the development will appear attractive from the Interstate Highway and Taylor Creek Road. The maintenance snop and yard area site were selected to afford maximum seclusion from the Interstate Highway and Taylor Creek Road without restricting the possibility for future expansion. It relates closely to the housing area and will be served by the same utility system. The development areas are planned to persit future expansion as operational requirements increase the need for housing, administrative or maintenance apage.

Veilieiss.

Power: Theotric service will be provided by California-Facific Utilities Company from existing transmission lines parallel to the Interstate Highway just list of the right-of-way. This line has been reconstructed to a 89 kV line With 12kV lines under the ball transmission. The sunstation is at the New Marmony interinange two biles not not the area. The construction will all to overhead at five expanse to the assistance. The company used very attributed that fire shorts is not in and opage meeting terms. The same meter that lives note for shorts are sometiments on the same meter that lives note for in the commercial consoles. The maintenance in goall is served in the commercial consoles south of laying Creek and be carried east to the vicinity of the maintenance shop. Service to residence and apartments will be from the user. Location of the line hear the lattenance flurible. The facilities will give it a postground some lattenance for services in the horrance information, histrict langer firstion.

Telephone: Devenul types of telephone betwice and available in the erea in a Nountain State of the phone our page:

- Toll service, li-party toll pervice when available in existing toll line. This service utilizes the name change to call on operator to place a small.
- Pural service, s-party line service. To provide this service the runsi exchange launchines would have the extended to lackwith a area while require. Approvide to claim would then be required to provide rural service to claim within the boundary extension and there is a question.

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Taylor Creek Entrance
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Lage 7

if their equipment would suffice if additional development occurs as a result of the bervice development.

3. Private service, individual or 2-party service extension from the Cedar City, Utah, exchange. This is the most reliable type of service providing the utmost privacy for official pusiness. This is the most expensive also. There is no construction cost to the Service as there is an existing line on which the Telephone Company can underbuild this service to the area. There is a nonthly line charge from the south city links of Cedar City to the District ranger headquarters, plus the monthly telephone service charge for telephones and extensions.

Only The Charge of Colput were all the distance.

Water: The water source will most probably be a well; an alternate source is "aylor dreek near the Three Forks area. There are several good irrigation wells north and south of the area wast of the Interstate. A ground water survey is underway to establish the most desirable and cooncident aburde. From either source, water would be stored in a 260,000-jailot underground reservoir heat the polar where the object trees and crosses the most a train at an alevation of applications, 275 reet, which is 175 feet his past then the development area and will neet all comestic as a fire protection above for the area.

Sewer: As the development to planned all sewage can be collected from the maintenance and residential aloa and disposed of by a septic tank and reach field. The alognous area is south of the development died east of the access (haul) road. A small separate septic tank and leach field will serve the Entrance Information District ranger station. This would be more economical than suilling sewer line to connect it to the residential oraposal system.

darbage: It is proposed to dispose or garbage in a sample of fill which can be recated in the area north of idylor class when this property as acquired. There are several of earth dans to be colliterated here, and it would be possible to bury the garbage and regard nuch of this area in the same operation. There are garbage of possible will require a haur or some 15 bires to decar cray standards and one involve a dusping charge.

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Miscellaneous

Flood Protection: Taylor Creek has, on some occasions, overflowed its banks. There is a low bank between the base of the Hurricane Cliffs and the old highway which should diked and reinforced with wire basket riprap to contain flood waters and protect the maintenance and residential area from high water overflow drainage.

Tencing: The Interstate righ-of-way is fenced. The north and south Park boundaries have been fenced from the interstate to Hurricane cliffs on Park property. Several gates were required for private property access in 1.th Jections. The line on the south and east of the Graff parcel have been fenced. This fencing will be removed and a portion relocated on the boundary line on the north of the parcel when it is acquired.

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MASTIR FLAN

FOR THE PRESERVATION AND USE

OF

FION MATIONAL PARK, UTAH

Papter S. Tesign Analysis

Pawing No. MP-CIO-3335-A. Taylor Oreek Entrance

Prepared by: Jon F. Larson | Date: Jecember 1982 |

Landscape Architect | Pate: A company | Pate: A company |

Crawing Approved: A company | Pate: A company |

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Taylor Oreek Entrance
Zion
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denural Considerations: Taylor Greek is in the northwest portion of Jion Mational Park known as the "Fold Rection". The site is bounded by U. S. Highway 91 (Interstate Highway W. S. 15) on the west and the Hurricane Cliffs on the east. Putlic Law 88-387, of th Congress, approved February 29, 1969, established the Park boundary as the easterly right-of=way line of U. S. Highway 91 (Interstate Highway U. S. 15), in Section 29, T38S, P12W. This Act provides that the State of Utah construct an interchange which will provide vehicular access to Zion Mational Park. This interchange is located near the south line of said Section 29. (A copy of the Act is attached as Exhibit 1.) There is an area approximately 600 feet wide, east to west, from the highway to the base of the Burricane Cliffs and 3,000 feet, north to south, from Taylor Creek to the interchange, This area is available for Service development to manage, protect, and operate this portion of the Fark. There will, of course, he a new entrance from the interchange on U. S. 91. There is mostly grass and brush cover, except for a limited number of Utah Juniper near Taylor Creek. The slopes of Eurricane Cliffs are wooded with Pinon and Juniper which provide a background for the development as it will appear to the multitude of travelers on W. S. Pl. There are no existing MPS facilities or improvements. Here is an existing postion of the ahannoned two-lane ". 3. At road with the dulverts for Taylor Treek removed. Adjacent to this is an older harro concrete bridge over Maylor Creek. There is a Mountain states Telephone Tompany 12-wine toll line traversing the area north to south, approximately 250 feet east and parallel to the Interstate right-of-way.

Two separate parcels of private land are within the loundary in this area. Pot) parcels are in the same ownership (i.e. . J. Graff). Meither parcel is immediately concerned with nevelopment but their adquisition is of great importance to prevent adverse use or development. One parcel north of sylor Treek contains 27 acres, more or less, and is that portion of the Mal/a of the NT 1/4 of Section 2% east of the highway right-of-way. The second parcel is that portion of the W1/2 of Section 23 east of the highway right-ci-wan, which contains 12 acres, more or less. There is a 100-toot state right-of-way across this parcel for access. The lands cutside the Park loundary are also in private ownership and presently used for agriculture or hell undevelope: "t. . I. Buff our trose lands north of the boundary in Jestion F, as well as trose being of the Interstate right-of- an unestion of, and the sest half or featier 30 to the scutu.

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Taylor Creek Entrance
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Page 3

Mr. William A. Marlocker owns the east half of Section 32 on the south boundary. In Mr. Barlocker's parcel are the abandoned workings of the Speciom Mine which have scarred the face of the Hurricane Cliffs escarpment. Undoubtedly, access to these two properties in Section 32 will have to be provided from the Eion National Park Interchange by a frontage road as there is no other access provided from the Interstate Highway. The lands to the west are served by the interchange connection to the old Highway 91, and those north of the boundary by a connection at the New harmony interchange with old Highway 91. It will not be necessary to maintain a connection with old Highway 41 to the north of Taylor Creek, except for Park administrative and protection purposes to this small area after the inholding is acquired.

This new development is proposed at a part of the approved objectives and policies (Volume I, Chapter 1 of the Master Plan Marrative) for extended visitor access to portions of Zion National Park. The area beyond this entrance is spectacular enough to compete with Zion Canyon, and will distribute the visitor use so that the Park may provide its full measure of public benefit and enjoyment. Taylor wheek is the entrance for the road to Three Forks, Lee Lass, and the Timber Creek Everlock terminus. This opens much of the greater Holch area for the visitor. There are scenic visit Tutupit and Faria Coints, Horse Tanch Mountain, The Door Fingers, Timber Creek, Nagunt Mesa, Shuntavi Butte, and Timber Top Mountain. There are connections with trails into the Middle Fork Canyon, and the Lu Verkin Creek drainage where the Kolch Arch and Death Point are located.

Circulation: The approach to the area is from the Cion Tational Park interchange on M. S. Highway 91 (Interstate J. S. 187. At the interchange underpass east exit begins Tark scate T. This Park road up Taylor Creek to Three Porks. See Pass, and the terminus at Timber Creek is six tiles. This road will be constructed during 1983 and 1984, and surfaced in 1864 and 1985. In addition to this Park major road, a secondary road will be required to serve Park administrative requirements. This will provide access to an employee residential area, and Park district maintenance shop and yard. It will undoubtedly be necessary to provide an access to two parcels of private land outside the Park boundary to the south. There will be an entrance block with parking the approximately 10 cars.

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The entire development is visible in all or part to the multitude of travelers on U. S. 91. This requires that the roads be fitted to the terrain as closely as possible to minimize the scars. During the three years that the major road will be under construction, the contractor will be hauling road materials from a borrow area 1-1/2 miles north of the north Park boundary. To facilitate this haul old Highway 91 will be used as a haul road for construction. From just south of the Taylor Creek crossing, a haul road will have to be constructed to connect with the Taylor Creek Entrance road. This portion will be established on an alignment that will be incorporated into the Service roa: system when the construction is completed. Circulation has been planned to permit the Service to proceed with its construction program of employee housing, maintenance facilities, utilities, etc., and not conflict with the contractor's hauling on the access road. There will be no haul road to obliterate if it is located on an alignment that will serve Service facilities in the future. There will be no conflict in traffic or space that would delay other Service developments in the area.

The reade will be all-teason roads open all year. Some sat removal and sanding will be required during the winter months. This is not antiquipated to be a major problem in the entrance area or on the Taylor Orees road.

Misitor Tse Facilities: The first visitor contact will be at the Park Entrance Station kiosk. Here automobile and trailer fees are collected and information leaflets turnished. Immediately inside the entrance station, on the right-hand side, is a visitor parking area for approximately 10 cars. Other visitor facilities are included along the road. There will be numerous pull-offs with interpretive signs, markers and exhibits for the scenic points, picnic sites at the Three Forks Area, and an interpretive contact shelter at the road terminus at Timber Creek Everlook.

To pampground or concession facilities are proposed.

Management Facilities: This area is 42 miles from Park Headquarters via State highways. There are no connecting Park roads and no proposals to construct any connecting Park roads because of the fragile nature of the terrain, and enauge there is no area to develop visitor or Park facilities in narrow laberkin Treek Lanyon. Administration of

Volume 1, Chapter 5 Tesign Analysis Taylor Treek Entrance Zion Page 5

this area will be directed from Park Headquarters in Tic Canyon. Representatives of the Tivisions of Protection, Interpretation, and Maintenance will be in charge of these alministrative functions. Maintenance operations will have space at a maintenance shop and yard located so as to be as well screened as possible from public view north of the employee residential area. Housing for the employees is required in the area because it is removed from any community. Imployees in residence afford the area additional protection as well as being more readily available for emergencies. The initial housing development is a duplex residence of two-bedroom units and an apartment for seasonal employees of four units. This is inadequate and limits the selection of responsible personnel to staff the area. The residential area is planned for expansion to an operational minimum to

3 3-hedroom residences 1 4-unit seasonal apartments

As the visitor use pattern of the Park changes through efforts to dispense the visitor into these other scenic mead, more housing and administrative space will undoubtedly brequired. The development areas proposed permit additional expansion.

the laylor Treek head. It is the most suitable terrain or residential construction; good slope for drainage, not requiring large cuts or fills; it takes advantage of the scattered junipers for screening; the group is easily served with utilities; the seasonal housing is separated from the permanent housing; both are convenient to the entrance; the development will appear attractive from the Interstate dighway and Taylor Treek Toal. The maintenance shop and yard area site were calcoted to affort maximum sech sion from the Interstate dighway and Taylor Treek Toal. The maintenance shop and yard area site were calcoted to affort maximum sech sion from the Interstate dighway and Taylor Treek Toal of restricting the possibility for future expansion. It relates allowed to the Touring area and will be served by the same strictly system.

'tilities.

Fower: Electric service will be provided by California-Tacific Stilities Company from existing than mission lines peralled to the Interstate big way just sent of the night-of-way. This line is presently a 34.000 line office the

Tecember 1 47 ev. August 1983

Volume 1, Crapter 5 Design Analysic Taylor Creek Untrance Zion Page 6

company proposes to change to a 69 KV line underbuilding with a 12 NV during 1963. The sul-station is at the Yew Harmony interchange two miles north of the area. The construction will all be overhead at no expense to the Service. The company has a very attractive rate for electric, water and space heating service, including operation of air conditioning units on the same meter at the lower rate during the summer (copies of the rate sheets are attached as Exhibits 2, 3 and 4). The residential rate will imply to each residence. The residential rate will apply to seasonal apartments if individually metered. If they are master metered the commercial rate will apply. The maintenance shop will be served on the commercial schedule. The area electric service line will span the Interstate sout of Taylor Creek and he carried east to the vicinity of the maintenance shop. Service to residences and apartments will be from the rear. Location of the line near the bottom of Hurricane Cliffs will give it a background and conceal it as much as possible by not skylining it in the area.

Telephone: Several types of telephone service are available in the area from Mountain States Telephone Company:

- i. Toll service, 12-party talk service when available of existing foll line. This service utilizes the bank crash to call an operator to place a call.
- Rural service, *-party line service. To provide this service the rural exchange boundaries would have to be extended to include the area which requires approval of the State Willity Commission. The Telephone Company would then be required to provide rural service to others within the boundary extension and there is a question of their aquipment would suffice if additional development occurs as a result of the Service development.
- from the Celar Tity, Stah, exchange. This is the most reliable type of service providing the utmost privacy for official husiness. This is the most expersive also. There is no construction cost to the Service as there is an existing line on which the Telephone Company can underbuild this service to the area. There is a monthly line charge from the south city limits of Cedar City to the District Manger headquarters, plus the monthly telephone service charge for telephones and extension. This line charge is computed on air mile distance.

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Fage 7

Water: The water sounce will most probably be a well; an alternate sounce is Taylor Creek near the Three Forks area. There are several good irrigation wells north and south of the area west of the Interstate. A ground water survey should be made to establish the most desirable and economical source. From either source, water would be stored in a 200,000-gallon underground reservoir near the point where the Taylor Creek Road crosses the horse trail at an elevation of approximately 5,275 feet, which is 175 feet higher than the development area.

Sewage: As the development is planned all sewage can be collected from the maintenance and residential area and disposed of by a septic tank and leach field. The disposal area should be letween the Interstate and the Jervice road to the area.

Garbage: It is proposed to dispose of garbage in a sanitary fill which can be located in the area north of Taylor Greek when this property is acquired. There are several old earth dams to be obliterated here, and it would be possible to bury the garbage and regrade much of this area in the same operation. Off-site garbage disposal would require a haul of some 15 hites to Tetan City Municipal Tumb and involve a dumping charge.

Miscellaneous

cloud Protection: Taylor Creek as, on some occasions, overflowed its banks. There is a low bank between the base of the Hurricane Cliffs and the old highway which should be diked and reinforced with wire tasket riprap to contain flood waters and protect the maintenance and residential area.

Pencing: The Interstate right-of-way is fenced. The north and south Park boundaries will be fenced from the Interstate to Hurricune Diffs. Several gates will be requires for private property access in both sections.

Original

P. S. C. UTAH SHEET No.

CEDAR CITY, UTAH

CANCELLING

Revised

P.S.C. UTAH SHEET No.

Sch. 21-D

SCHEDULE 21-D COMMERCIAL SERVICE

APPLICABILITY

This schedule is applicable to commercial consumers within reach of the existing lines of the Company who use the Company's alternating current single phase electric service supplied at approximately 120 and 240 volts for commercial lighting, heating, refrigeration and single phase motors of three horsepower each or smaller through a single meter. Three phase service will be furnished for total connected load of ten horsepower or less under this schedule where such facilities are adjacent to the premises t; be served

TERRITORY

Within the territory served in Iron and Washington Counties, Utah,

RATE

First	60 Kilowatt hours per month []	9 5¢ per Kilowatt Hour
Next	140 Kilowatt Bruss per mouth	6.0¢ per Kilowatt Hour
Next	3800 Kilowatt Hours per month	4.0¢ per Kilowatt Hour
hext	-5000 Kilowett Hours per month	. 3 De per Killwatt Hour
All add	ditional Kilowatt Hours per month .	2 St per Kilmwatt Hour

MINIMUM CHARGE

\$1.25 per kilowatt of connected coad per month but not less than \$1.30 per month for lighting service nor \$1.00 per month per horsepower of commetted load for three phase service,

TERMS OF PAYMENT

The above rates are not and apply to all bills paid within fifteen days in meath of billing. Great true will be obtained by adding five per cent to the bill as computed under the above rates and will apply to such bills as remain inpute fifteen tays after date of billing.

EFFECTIVE

Volume 1, Chapter 5 Design Analysis Zion Grotto Picnic Area with Utilities Page 1

MASTER PLAN

FOR THE PRESERVATION AND USE

OF

ZION NATIONAL PARK, UTAK

Charter W. D. Apr. Analysis

Drawing No. MF-ZIO-2118-A, Grotto Pionic Area with Utilities

Prepared by	y: Jon F. Larson Lambacape Architect	Dute	D dember	L 113
Drawing App	proved:	Date	formally region as a says makings, some magazing	Problem of State of S

December, 1.63 Tev. P. Linuary, 1.64

Volume 1, Chapter 5 Design Analysis Zion Grotto Picnic Area with Utilities Page 2

General Considerations. The Grotto is about half way up Zion Curyon Road, three miles from the Bridge Junction to the south and three miles from the road terminus at the Temple of Steavava. The Grotto is a wooded glen under the towering escarpments of Red Arch Mountain and the Great White Throne. The area has been utilized for camping for many years. Across the road is a trail hub where a suspension footbridge crosses the Virgin River and trails lead to the West Ris and Angel's Landing upstream and to Emerald Pool and the bridge crossing at the Zion Lodge downstream. This is a popular day-use area and the overnight camping facilities are crowding the expansion of adequate day-use facilities. There is no real need for complay in the area as proposed expansion in the Watchman Area at the South Entrance will provide adequate camping facilities. There is an immediate critical need for day-use picnic facilities in the Park. The increase of outside overnight accommodations has increased the demand for day-use type facilities in the Park. This is an initial step in the long range objective of eliminating all overnight facilities in Zion Canyon.

Circulation. Access to the area is directly from the Zion Canyon Roul, The existing camparound directation is a compound loop with parking spars for each carpoits. Access to the group area across Grotte Cheek is directly from the usin road and is a hazardous junction by reason. of its location on the curve, sight distance because of heavy foliage and the steep grade and fishhook alignment of the spur. The warking for trail users is allevent to the mein road and hemardous because it is necessary to back into traific lanes to leave the area. All the existing vehicle circulation will be changed. For the picnic area a 50-car parking area is proposed with access at both ends to the main road. For trail use a 40-car parking area of the same type is processed across the road from the picnic area. Entrances to the parking areas are staggered to avoid direct cross truffic on the main road. Parking for the group area will accommodate 10 cars and the entrance has been relocated to overcome the hazards of the existing entrance. Alse saidle path will be relocated to develop trait parking and foot inthos will trovible acress to the sustention bridge from the varility. Girealation in the pictic area wall be lost paths on much of the old rue? assignment. Through the addition of the pionic area the path will be wise enough to accommodate a service welsele for maintenance operations in connection with cleaning comfort stations and collecting trash from containers without having to carry all of it to the parking area.

Visitor The Facilities. The 10 respected are to give any to a hypotential are a Arequate maining it silitates are included in the enjoy too the fathern Area at the South Patronee to the Park. The plants to a void newer 10 junie sites and a took, junic area agree Creek. There are three compact statished in the area two or shidt were

December, 1963 Nev. Pebruary, 1964

Volume 1, Crojter 5 Design An Anda Nico Design The Ne Associated This Design Associated

re-conditioned in 150 and they will provide mach stellar Helling for the lay-use areas alias will be an are to kny-use men to several Time hihos can be taken from the areas. The shorter littler are to Luriald Pool and Angel's Landing and the Longer Like is op the West him Truil. From Therald Pool hilbers can go on to the Zion Lothe Area and neturn along the bridle path or the trail from the Lodge to the pienic area. The complire circle for evering interpretive talks will be retained for occasional use. Scholling will be limited to a few evening, a week or mean request of groups cain, the area within Fush personne' dimitations. It would always be estimable for greateneous solf-use of magaziering pionichers the desire to wear or the around the over line and exetail exactor ten en ming song. Bucking into the fature, is the ridin home concession is ever separated from the Utal Parks Concension, this would be a god location to consider for a correl for saddle horse rentals. The brible path From the Lodge to here could be obliter too. Parters north of Grouto Creek would be available for a limited marker of heat. Parking facilities will be much better here than at the Longe erec.

Consider Tearlities. The compensation of the expension of the control of the form that is a like and the control of the contro

Thillities. The utility by ten include in a name of Ai Charing Decime No. IP-730-1702. Intention

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Volume 1, Charter 5 Design Analysis Zion Grotto Pienic Area with Usinities Page 4

the area. In conjunction with the reconstruction, a drain for the reservoir will be included. This will permit draining the reservoir ac well as aid in cleaning and flushing out sand which settles in the reservoir.

Sever. The area has its own collection system and septic tank disposal and leach field. The leach field is vest of the area and north of the Zion Caryon Road. The collection system is shallow and deteriorating from age. Root stoppages are very common. It is proposed to reconstruct the collection system, bury it deeper sains epaxy-lined asbestos cement pipe with root-tight joints to as here stoppages and the increasing saintenance costs.

Power. The area has a Service-maintained underground system which is extended to the area from a commercial power source at Zion Lodge about a mile away. This is a 3-conductor 2300-volt line to the transformer vault in the rear of the stone cabin. The service is for the cabin and three comfort stations. No pames or heavy locare involved. It is proposed to reconstruct this system. The new type of direct barial cable insulation is so much superior to the type used when this system was installed over twenty years as o that maintenance could be greatly reduced as call as its are a more weakly able a morely or power.

Miscelenness of the tree growth in the area as very dense. So name that most trees do not head out naturally. They are tall with spare tops and should be thinned out and topped to produce more vigorous and healthy trees. The Box Elier trees could all be removed to ground the growth of the and and anyor soutenessed. What cample is descentione, the grazies and ground covers will have an or establish to remote thinking what produce the growth of cover by permitting more smallpht.

VOLUME III

Mu ter Plan Development Outline

don lational fam, Wtah

THE HEAL IN DEPARTICY

a. Park Crigan

Muluntuwes National Monument was created by proclamation of President Taft July 31, 1909, to preserve what is known took as Zion Canyon. The original proclamation set aside only 15,1 acres which lay on either side of the Canyons

On March 18, 1910, by proclamation Fresident Wilson as 100,600 across of land, all in Washingtor County, and changed the nation Zion National Members. The addition was for the purpose of the scing the Great West Caryon and the Paragrawap Canyon in the area.

By the Act of November 19, 1919 [41 Stat. 346] Congress established Zion National Park and Included the Lands formerly in the resument.

Fune 14, 1-34 (entress approved Public Law 11. 31. 1 1 . Congress) which added 15, $\sin i \omega = 0$ when the Park.

on dampary 13, 10, 1, the present of a late that for the was one of a circular the colorial Kolet Cangens and parts of the farour surface of the motors of the examples of socions presents. A the west and nor of the late that the motor of the wist and nor of the late of with 33,720.75 is Federally owned. This area supplements for Cational Park, and, as it lies contiguous to the park, she it be incorporated within the park be amarles.

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gion National Park and Monuvit with an area of Lij, Will agre as located in the heart of the special Har desert and caryon country of weithwestern Time. It is 30% miles south of walt Lake City; of miles to these or thought of the learn fitters will be expitioned of the learn, form, then on the last masses of the second transfer are meson as all the last transfer are meson as all the last transfer to the last meson as a support of the city.

(3) Relation to Other Parks

North Rix of Grand Canyon, Arizona. 125 miles southeast Eryce Canyon National Park, 90 miles northeast. Cedar Breaks National Monument, 55 miles north, via Cedar City. Pipe Spring National Monument, 61 miles south, via Kanab. Lake Mead National Recreation Area, 206 miles southwest. Capitol Reef National Monument, 233 miles northeast, via Richfield.

Timpanogos Cave National Monument, 295 miles north.

Zion National Park is related to the above areas of the National Park System not only because of general locality but by very definite scientific and historical ties. From the rocks in the depths of the Shard Canyon to the recent lavas of Cedar Breaks National Monument the rais recorded a comprehensive geological history of the earth. The forms fons extend upward from the oldest rock in the bottom to the Kaibal limestone which is found on the rir of the Grand Canyon The rocks of lior take up the story where Grand Canyon leaves off and carry it on to the beginning of the Cretaceous period. The Inchaceous up to the present is represented by the rocks in Bryce Janyon and Cedar Breaks. Nowhere else is the recent history of the istilement of the whole region better portrayed than at Pire Spring National Monument. Thus it is seen that the relation existing beowens trube parts . one Mationa: Park System is not only one of proximity, but one of a Cated part, of the same regional stoly of earth history

Angening

Highways

Motorists traveling B. S. Highway No. 41, from the north may want off at Anters of Junction, 35 miles south of Cedar City, and those for the mouth say turn off at Harristary bench Junction. To miles north of St. George and reach Zior over State Houte No. 19. Motorists on D. S. Highway No. 50 may turn off or State Houte No. 19 at F. 11 Carmel Junction, entering Zion op the East Entrance

Raliroads and Busses

Zion is reached from Cedam City, Utah, a terminal of the Union Parift's Railread, by motor but service provided by the Stan Parks Company susses of several trans-continental bus lines openate from Sait Lake City and Los Angeles through Cada City and St. Jeanse Schneetings out also a made with the Jacks Religious Resident at Mt. Carres. Publisher.

General Information September, 19-3
Page 3 of 1

Airlines

The specify deluxe airplane service trop all points to the United States to Salt Live City is available to my this educate Western Airlines. Service is also available on Western Airlines from Los Angeles with stops at Lac Veras, Nevada, Cedar City, and Salt Lake City, 1986.

Transportation with the Parks

The Ttah Parks Company under contract with the Department of the Interior (Contract No. I-100NP-100) has the preferencial contract to all transportation within the park. The company traditions deriving from Cedar City and arminger culton. I service to rearry our transportables position All arminger culton, tours transfer to Company augments in artifact at the Parks. In ideas to company augments of any at the Parks. In ideas to care to the Tempie of Sicawaya.

(3) Climatic Conditions

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The region is part of the Colorado Plateau, the south and west exposure of the Mavajo Sandstone, an escarprent of from 1, a to 4,000 feet lish, is the most spectarular. On the inclated buttes West Temple, clevation 1, a, feet, toward over the meanur Virtie River which it Springisle has an elevation of book feet. These are the bigme is a fillow a curvations in hims National Pares. Zion National Meson and to nighted it is not Raish Montains in the feet as the sea limit it. In the manifest it is considered in the continuous feet and continuous feet and the continuous feet and th

Major drainage is the Virgin River whose course is soothwestward to Lake Moad in Nevada - Important pributaries of the Virgin within pask and rooment boundaries are a Parks sweap (Bast Former) to Virgin) River, Deep Cress, Kours In val Control Was - In Versi Cress, and closer One a

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REVIEWED Regional Office Washington Office Architect Landscape Architect Engineer Forestry Hatery Matural History Concessions Management Lands Cafety Ceorracion Flanking Date September 7, 1953 (Signed) Fau. R. Franks Swinterdent Date Jone Fall Surecity proof or Coordinating Sept. Assil Francis Turbator (Design & Construction) Date Symbol Director Date MAY 1 1 1954 فصعطرة تاي TRAD.) W. S. CARNES Cold Colds to a Construction (SGD.) THOMAS . ALLEN Don't MAY | 8 1954

Prepared by Paul R. Franke

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The origin and development of Zion Carpon and other similar can one on the southwestern wargin of the Markagant Platent, with special reference to the Hurricane Fault and its controlling effect on the erosion pattern and the resulting topography is, without and it, the primary baric interpretise the lof the loft. dure are a cotacularly illustrated that similar most of embandive eart's novements and on importance of the siow but irredistrice formes of evenions. Fit these namifestablesse feet tale the paris a setting. There is one note which does not need the eye. I put a Torons to the expression the case in rocks of all forest excises and hardness in the fifers to desposition and structural diaracteristics. Colors, Prominent and noticeable in the great chill faces and a Cominant ruck templos, regult from themis I assisms which take place only in rocks of contrin composition. Hain, the composition of rocks is of fundamental importance is their physical and cleuteal breakdown, in determining the travel of soul formation

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Ecological Conographs, Vol. III No. 2, April 1933, Duke University Press, Larhai, N. J.

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Major published references on the archeology of the Zion relian include:

Archeological Observations North of the Rich Medical Observations North of the Rich Medical Million Bureau of Archicar Ethiology Rullsvin #62, Possynment Printing Office, 1986.

Stirland, Robert D., An Archeological Reconnaissance in Washington County, Utah. Antiropological Papers No. 9, University of Total, Gala Lake Dite, 1950.

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- Parvalle, C.M., Incidents of Pravel and Adventure in the Far West with Colonel Frencht's last Expedition. 1857
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- Powell, J. W., Exploration of the Ocloredo River of the West are Pributaries Amelored in 1965, 1870, 1871 and 1872. Generalization, 1875.
- Fragray, Terbeut D., Misiontific Parlocusions underside molto.".

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Prehablo y-Ethnology

Only proliminary modiled have been started in connection with the early have inhibitants of the region. The proheological investigations should reveal the significance and origin of ner-ipheral cultures and their association with the Zion regional tenomaly. Archeological modes include (1) collation and checking of notes, other data are collected materials from site-survey and linearly land; (2) starty in analytic of technical in narrow will stiens, and presentation of technical pipers on a remoral report thereon; (1) recombine of analytic colorial survey, to nover all sites within the park and modument area, and technical studies when thereon; (1) cooper sion, to whatever extent right prove feabible are decirable, with the University of Itah program of archeological investigations in reservoir project areas and elsewhere in the general vicinity.

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The project was an able a work with a formal by of receiving probably as the deal who have a control of a substant with the control of the co

Me ber and Type of Visitors

In considering the details of interpretive planning, it should be strongly emphasized that the most important golde is the namer, healts, and interests of park visitors, and the general product of visitor use. In constitut cases from a figure of park visitors effectively, it is essential that there is also also associated and the health is officiently; croper planning of this because in a knowledge of the number of units (persons or automobiles) per hour and a reday that must be served. Furthernore, before per absolution that is authorized, potential increase in travel and adequate opportunity for future expansion of one facility must be given full consideration.

Nodern Highways and relarm automobiles bring an intirely different "average visitor" to the national parks to lay than we were called upon to serve interpretively 20 or over 1 grace tro. They misitore later to "mail he word", and to e are very obliant plymically to firm. I amy it files to be easily as large to a virtuing, believe to the offices to be easily as large to the offices to be easily as formation, and the property of the second transfer of the case of the easily of the meaning of the me

There is in the past a large percentage of any visitor, pattresized the object approunds, and the extensive as of the trails into the tack country, we must now take work fortune available to be tack country, we must now take work fortune available to be the object of the country, we have a larger of the country of place many and the country of the country of the country of the country of the country, in a single of the country, in a single of the country, the country of the country. The country of the country.

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When wis for , of course, waite of use of available interprecourse of the last process in the first sale inverse; or everal interprecourse of the process in the first sale for some of the course of the first of the course
imm at the 1950 brazel year, the following down of this continues the Park! Interpretive facilities was more: Jotob 11,217, Wormser 5,053, Foreber 2,761, January 1,916, Fabruary 3,122, 1 rob 5,761, April 12,687, May 13,195, June 67,204, July 71,123, Armst 67,977, and Pepterber 34,181. Thus a total of 306,362 in erpretive contacts were made in the Park which recorded a total of 520,994 persons entering through the smacking of thems, jiving a contact of 30,10 interpressive contacts.

1 DEPARTMENT PROFIT

Perconnel seguinocento

Personnel needs and requirements at Rion are difficult to explain, due to the fact that the Park is the coordinating head-quarters or two major parks and five important Maximal Robustments. This situation is further complicated by the fact that two of these nonuments are from 200 to 050 miles distant about the coordination bealesanters, yet the returnalist shall on Tion things its requires to provide appears sony intemporation stands of the coordination of the coordination of the provide appears sony intemporation and the coordination of th

The DB-10 Fark Nobabilist serves on comministrative finished Determined in addition to commine out numerous now inclinations—towe deties, and is sectioned in Zion Retional Bank timesplead too entire year. The RD-7 Ferra Saturalist is statuted at lem Dulis all Ferra Schming agreementations in the restriction of the longer of Northwell Ferra, he assemble the Touristic entire action of Astropical Metamo at for that area. From bloodered the order assistance each year, the Zion Recem (which is the poly intersection of series of the restriction service available) is sent one; shift in engage of my area even days per week (56 hours per week) to these own persuanent Para Raturalists. This visitor contact work I was it was sery little time for administrative and supervisors were, inverse out the plant hat an extern long range socializes.

There are seven seasonal requer naturalist positions set up for Rion and Pryce Panyon National Parks. These sen are muchly assigned — four to Rion and three to Brace Canyon — for seproximately three months, or a total of 21 man-months. An analysis of monthly travel figures of those areas points to the need for a full schedule of interpretive ctivity from May 15 to September 15, a total of 28 man-months of needed ranger-naturalists activity yearly.

empanded will it be possible to provide more than taken interport to pretive sepervisory and planning assistance to the five important national monuments (Cedar Breaks, Capital Reaf, Pipe Spring, limpanogos wave and Zion National Monument). None of these meas has any interpretive staff, except a seasonal ranger-naturalist assigned to Cedar Breaks during the summer months of heaviest travel.

Initial Visitor Reception Facilities

The Zion Musuan serves as the interpretive-information coasses of the park. Although stratemently located alongsted alongsted in major ask through highway close to low junction of the Cion togeth spur road, too museum withing and parking and, once a equate to handle all park travel, are sen far too such an error adjuncturer visitor load, and on place days contained a serious botche neck and traffic hazard. Because of overcrowding in the charlenger, many visitors who might otherwise make leistraly use of this interpretive center, pass up the opportunity to cain an unlargorate of the geology, biology and history of the fark.

Dymin I ramh loun Noute

The Lien-Mt. Permel Figure (State leader Affickhish passes some the Park in an east-west direction can use the full truffic levil of park visitors and offers tany spectage when some trusts— coming views to the assemblike traveler. However, the bend of some visitor leaves this through highway on in the assembly taking the mile drive up reautiful Zion Penyon to the se als of singly value and mine perking area. This is the sajor tour rouse of the Park and Indoor visitors to the public caragraphic, when Indoor,

i pering for a filtrope from any common go, this ser consers . Al interpret Le de Glenow w. ..

Con accort Arins

The only regularly can idled field trip at present (1961) is the Zion Marrows Frail Like. This like is conducted twice daily (9:00 a.m. and 3:00 p. .) busing the sain travel was on Incomproximately May 30 to emptember for The trail to all hard surfaced, it is an our made, and soonly approximately one wile in length, taking . . manu trop a libble out .w. alles. The groups gather as the Marro s Prailside Amil It, see: the Pemple of Winawaya Publish Johna, for a smief orientstand that, ar a then probably under the solution and of a hanger saturality, to follow the right back of the Virgin River to the beginning of the real wion tagen Farrows. The round trap is usually name in from two to two and a half hours.

The narrow canyon, the Theman river, the springs, see sample The narrow casyon, in distant river, the springs, the samping termions, the stadius and the Distant Memorial plague, and the nimals and places slong and termional, it must be about the second of paternaments of the second of the same of the second of the remeational and esthetic cos spoint, this is, without must, and el Ma finest consisted unall likes in the Leaturn Mattoral laws. Its success and popularian is largely dependent on the paralliales. (or bities of the trail) as the personalist, entities and succeeded of the normallial place.

Companied Penns (Proposes)

The amount more than the weather and providing a mount in busine will be easily promane the job man a for his bod likes. There are, is every premain of trull to be one well be utilized, the confidence of the well as a fine of the confidence of the con and lass satisfactions. Propositis are unried in the 20 Proposition to hand surface there that he shay as now say . In he heart on of an forward miking. A so include to following:

- I. The most area totall of mile one way, which excluded in and appealable where of Pine Greek Vanya are series, the Zinn-Mount amount highway and tunned, and the post and the lowers of the Virgin. Its location makes this trail petter suited for a self-grinding operation that Is a send ducted brips.
- The inerald Pools Treil 1.5 miles one work to be wreating each one was equipmed.
- The Victor Degree Distinct 1. This series, a community costing botanic is brail, escentially for subserving various species of ferms.
- i. Angels Landing Fruit 2.5 miles one way—at all day hike—with proctabular views and their to insolvery and early in low renator famous.
- (i) A service of the Control of t

the present of each of interpretate lectures consists of two tables each events, sever to as promethy, include the two for the form to the lecture is not a solid to prove the first of the lecture is not a solid to prove the first of the lecture o

when a bail with a sesting has diby of 170 persons would be on-

The other evening locture as preserved out of doors at an improvised site in the Grotto Campground. The entire installation is temporary in nature, the to the plan to abandon the grotto Campground as an overeight Camp and move all camping to the Polith Campground Locture site seat only about 100 persons. This is often not element. The projection equipment and installation are not satisfictory in many respects, and the location of the decture starts at the politic satisficant is unjustive. The program is in our location of the lecture starts at the politic satisfic about one hour. It is illustrated with actural color satisfic The program is in occasional and usually has a question period both before and after the result ray scheduled because. Due to shortage of personnel, the hasters must operate the projection equipment along with his presentation of the eventure balk.

In the line with the process of the rest of the result of the leaders of the line with the result of
conditioname for the blooming and rive consideration to measure to a subject to a subject the subject to the su

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in the religious in more was a more involved as it commonweals. The control of the second of the sec

while inade passe facilities are now available for the place of the work. Lost of the vibual aids, projection endemone and supplies (cameras, color film, mounting places, carming cases are filling cablests) have been furnished through funds provided by the Globergree Natural History Association. Adequate budget allowances for developing this essential interpretive service base from requested.

Museum Encilities (missing)

II m Marcus

The light Museum is situated in the old heral anters will inc at the junction of the Lion-Mount Carroll Highway. It consists of a simila reco, forty-five feet long by fifteen feet wide in actual exhibit space. A small combination naturalist office and library takes up one pertuon of the room. The exhibit curerials include one section of the room devoted to pionesh relice, two theotherical actual conly bisterm of Zion, a table and we'l court actual to a to i longuard orient c**lopy of Wion,** a suce obswint no car, escourant lordes (blo esplical longes) larable Sepiat for a bulbla II wolld this for the mercep Janjon, cost a c An the error we concee this earlead thai course, executional largous weeks took, are echo deal and historical pajects of inserson to the visitor. The Linn-Bryce Matural History Association his furnished a large display case in which are exhibited blue was ease and sinostiams, asso, and builetims that are assisted to the second of the state of the second of the ကြောင့် သို့သည်။ တြင်သည်။ ကန်လည်းက ပြုံကြားခုတွင်နေသည်။ ကြည်ရေးမြောက်မှုနေသည်။ ကြောင့် ရေးကြွေးသည်။ သည် သည်။ အသည် ti kulundi ili anursi mum kami send<mark>sit inga ata am</mark> malasi e 5 1 2 3 5 c c

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proceptions should now a complete of a military, and the companies of a more than companies of a more up-to-date and acopyrehenci a process of a complete of the ball proposed atracture in to a complete and companies and abulinistration building, it is emident to a complete of the companies of the properly clanned as if it were separate as idistant.

It should be exphasized that the public has position in but one of the sufer requirements of the sufer as the importance. All the consolial are constanted upage to of equal importance. All the temporalise excitate and other devices are are assumptioned for always on adequate research, and accurately mentified for always by serious students. Naturalists' offices; a temporal worknoon, laboratory, and darknoon facilities; and sale occurately for valuable equipment such as cameras, projectors, and other acstly tools and inseruments should be provided (see we mett's "Check List For This in Flanning" manuscript in to son Three Office).

Oplenition Stations

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en de la companya de la co It was the Temple of Minawaya automobile and but parking area. The working drawing for this structure is Drawing No. NP-ZTO-2010, approved by acting Director Demaray on 7/28/39. This building was completed and temporary exhibits installed in the early Opring of 1940.

The primary purpose of this exhibit is to provide information and orientation relative to the unique features to be observed along the mile-long Marrows Trail and to encourage visitors to take this and easy hike over an all-weather hard-surfaced trail. A secondary compose of this exhibit and the surrounding those seats is to provide a confortable gathering place for persons who desire to participate in the Naturalist conducted hikes over the Naturews Trail. A short crientation talk is always given at this site before parties are taken on the conducted hike. A third purpose of this exhibit is to provide general orientation and information in the entire park area and its interpretive services, for there is any people who read this site without any previous can be appreciated as always fixed the entrained chapter in the short stop at the entrained chapter is about the substitute within Than to provide a confidence of the short stop at the entrained chapter of the short stop at the short stop

Little thought has been given thus Jar to any Unhibits in thee. The entire postion of the Manging Gardens along the Manging of the large number of might be considered an Admitti in Place. The large number of recently discovered Dinosaur trades in the deep canyon of the following North Fork Crock, which can at present be remained with by a fire-trail, may some for be time-consideration of a combile in the canbit.

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it is also be all the distributions one predicts the distribution of the distribution

e caveted, partly restrict on stabilized. Since these sites are so nearly inaccessible, being reached only by saddlerorse or hiking trails, they do not expert to be subject to vandalism and no further proposals for interpretive use or stabilization are being considered.

Historic Houses

There are no historic hours within the present which arise of the medicinal Park. There is, however, a very inserecting old beauthown as the Dekille House, which stands on the rise of the Shunesburg in Farmuweap Canyon. This site is just outside the present with boundary, and is privately owned. Serious consideration has been given at times to the advisability of trying to extend the boundaries of the mark to include this site, and to designate this old house as a Historic House. The contains of the building laft standing is quite impressive, to size and as to the very The masked of the construction. In the the present time, this alid is like his seen difficult of meases and fairly free for sandallon, in the present time was aligned to reach the size of a construction of the construction of the construction of the present time, this alid is like his seen difficult of meases and fairly free for sandallon, in the present the size of a construction of the construction of the construction of the sandallon, in the seen difficult of meases and fairly free to construct the sandallon, in the seen the size of a complete of the sandallon of the seen the sandallon of the

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neture trails, but in nearly every instance, vandalish has to a large degree destroyed to a effectiveness of the labelian system, and editarts to adistain the three been abundaned. It is proposed to a consistent the three been abundaned. It is proposed to a consistent for a place to eveloping a type of self-neiling new trail and sestistantonish in other convice cross, that will selven the proof, convices us, it is in about to a chiker. The convict and his variables of a system of the series of the continual last trail and to appear to be be born to a long our lightent was functional abundance and his is -- (1) the Naro selvent, to began the lock facility (1) and another trail, (1) the facility and (1) The His ien derivon from the

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and mixed by the lational Park service and the source of the Interior, and (19%) income mind amon Mind state how, is remained by the permanent naturalist statified and subsidizes to a major decree many informational and interpretive services provided in Sion and Bryce Campon National Parks and the coordinated selectional menuments. Present fun's for Interpretation are barely adequate to cover calaries of marriant and seasonal personnel and to pay necessar cramportation amenaes.

ractically all modes stablegraphie, projection salmonial educational equipment new or as had been decured through funds provided by the Minn-dryce Natural Mistery Association, and the casculation has invested heavily in (1) furniture of distance, (2) library books and coientific periodicals, and (3) exhibit cases and exhibits, not observice obtainable.

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For violets, evolvies, penstureer, sego line, and in shady wests the columbine and monkey flower. During the concessive half of merso, ay-blooming plints the largely replaced by seek notice deputh; species as evening primrose, from atclock, spitesward, and the glorious sacrad de mra-a veritable omight garden. During the late summer cast the reads pass through fields of auters, sunflowers, bee The cas, in limit a fint hamble, and also to tlemen; and the cool of a super one may be independ you have carl oil Thoron. There is distributed as at a considerate and the set of the but in the limiting of the equil there is not a set as the came in hinds of ordi, exponure to the sun, and the arrows or mount oper in co great than indicenous plants of the later Composit, Paper Sonor of racition, and even Constan Lengs toquether dish most migration plant, line favorable to causes on the floor of the dangers are properly becaused as two potterweet, and ask. Above the on the talus slopes, are here and come in cracks on the towering walls grow junious, pinen, like oni, and manuamita-shundad rees and simus charis ristle of Light of the Lord Company of the Com replatic of the Upror Common Home grew on camp clopes in 7,3% Test, and 1, The feet below bless, in a shady valley, are pellow times at it which there are the long times at it which there are the long times at it which the long times are mindle time. In the long times are the contribution of which times are the long time The second secon

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The Patata

The effect of the interaction of the physical setting of the campon and the climate is to treak the region up into a creat any different habitats for plants and animals to occupy. This produces a pronouncedly amplex system within a very limited area. And yet, the effect usually consists of sharp contracts with out little interpredation cotween the verices units. This sharp separa ion of the distinct habitats helps to simplify the analysis of communities by producing sharp boundary lines to the range of communities by producing sharp boundary lines to the complexity in such cases or the mobile organisms which may range be potably into adjacent habitats of different type because of consignity.

The Diotic Communities

As would be expected from the group livers to an the heightst com oblems in dien langen, where is alter are the we ditte in who Dis i come notice a signification build taken. One of the inversetteritalism of the second of the compatible and the second of the second iko nama a malama na kabaman kaman inii kale badunyin malib dibbbi na Nama ilika dingsa a malama kale mari<mark>kin</mark>ga annan badin da kale mika ili ం అందిమ్ గా⊷ుల్లులు. రామక్కు అంటేదు పేతు కేంద్రం గుర్ గ్రామంలో చాల త్రియాల పారాత్సాత Time of the control of the control which is the series and the state of the state of the series of t or the rock. If the compranities be analyzed, it as found that to me me contain plants of very diverse character, such what her sight be cancillar I sepiralent in latitudinal distric.tion to stated in this from the coniferous forests of lever to the to the property should provide of the places of soldering (a tip of the Tube of the condess, or in about that a surrouting a choice in-The simple form of the remain of the first to the relational state of the site There is no community with a supply of a number of the supply of the sup of themen the alektures of 3 or and 150 from The boundary lines between the communities to ensually stary and distinct. They are a maly covernance buy angles of since of expessions of a consistence of the size of size of the size of t

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The Tingin River, its tes forks and a merous infortery service, provide the only free flowing weser resource of the rea. It is are no singular lates or pends. The Virgin -iver has all any supported contains forms active to take weak. A few non-game fish a let in the stream, at because the brown is so subject to tarrential flooring, it does not provide the liberable habitat for game fish. In the few fish (either game or non-game) are subject to tarrent in the virtue of the carry enermous around the fill and debuts from the lately of the grazed on the embrowmed at a conflict tributary streams which we have a part to meet any.

birds, are quite dependent on the strawn on the springs for a suiceble habitat and food supply. Various water minists are held by he Wational Park Service. Mater from the Virgin River is used in a limited marker for includible. Hereaft of the larger spring how seen developed for a contagnation.

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Zion NM and NP Region Three, Utah Development Outline Summary 8-4-52 Prepared 4-52

FORESTRY SECTION, 13 pages

1. Summary of Fire History to Date. (page 1)
Total of 95 fires in Park, Menument and Protection Zone in last
24 years, about 25% man caused but majority are caused by
lightning. About 684 acres have burned, or 28 acres average
per year. Normal fire season June 1 - Sept. 20.

2. Forest and Range Protection a. Fire Scotted (sage 1-2)

operations. Additional seasonal rangers are required if fire prevention program is to be successful. The fire prevention program is to be successful. The fire prevention program is brought into the orientation seatings conducted by the Service for concession employees and has been very effective.

The only fire hashed reduction recommended is in campgrounds around fireplaces and around dump grounds and utility area.

Pro-scoppession (page 2-3)

Annual training courses in fire control are conducted.

A 50 wan fire tool cache at beadquarters, 20 man at
Lava Point during fire season.

No detection structures but one is proposed for Lave Point in monument but land will first have to be purchased. Also need rebuilt telephone line, water system and ranger station at lave Point. Suppression (page 3)

Duties of protection organization in fire suppression described.

Fritten fire control agreements shall be maintained with U. S. Forest Service, Dixle National Forest and Utah State Cooperative Fire Fighter Organization.

Specific Recommendations are listed on page 4.

- b. Reforestation none (page 5)
- c. Tree Disease Control (page 5)
 No serious tree diseases.
- d. Tree Insect Pest Control

 Control measures will always be needed in Zion Canyon from
 mouth of Narrows to boundary near Springdale. Control will
 not be applied elsewhere except to prevent general epidemics.
- e. Browsing and Grazing Control (page 7)
 While deer tend to concentrate in Canyon. State of Utch cooperates in reducing herds of deer. Considerable grazing in
 areas on life-tenure privileges.

3. Vegative Cover

a. Deepklphion (page 9-10) b. Aggregate Area (page 10) Federal and non-federal land totals 143,294.68 agree in Park and Momumont. Breakdown or page 10. c. Special Conditions see pages 10-12.

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- i. In regional the disparcher shall be hept informed of distantions of an amuliary assistance in any form is required or is likely to be regained.
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Enricus tree in assainve not been manifest in the park or morument. The provides and areas requiring irritation evelop a condition remad chlorosis. Trees afflicted with this exhibit yellow or pale reaves which hap o'f prematurely. The acid defoliation results in reasonable, to sub, twing loss and enemals is instituted in the chlorosis and enemals in obtain a fearely street, which is a provide in the bold of the affiliation research to the contract and a bold of the affiliation research. The accessory a trees would be accessed in the bold of the activities and the law in the contract.

on about the form development and includive also by the public, control of the distance seriously affecting vegotation in Zion Cenpen will always be applied to prevent control of diseases in other areas will only be applied to prevent control and the control area on Zion Conyon.

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(d) Tany Island + Count

Interview one real measures will always a model to consider the manufacture of measures and in the measure of the measures of the measure of the measures of the measures of the measure of the Compan.

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(a) Vegentive Cover

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Semi-desert conversion - 9,000 acres. This type is from in the lower elevations under 9,000 fell and become in the large of the files spaceward (du correzia microcephsia), romantes de la company de la compan

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Barron - There or a ,3/1. Success of whiten in the coars of comment.

Exolic - Prior to the estable beart of the court of the manufacture. At the present time, there are approximately 15,000 acres of crivate land in the park and monument. The carry setal resent treatment day private land and lave to the part and sometiment. We significant trees and places the land to the part and sometiment. We of these and places the land to the part and sometiment. We of these weathy of mention deed to be longarily replaced with marking the land to the

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NATIONAL PARK SERVICE

PROGRAM SUMMARY SOIL AND MOISTURE CONSERVATION

Three Zion National Park					Utan			
Region	Name of Park	or Monum	ent		State			
94,881	Acres		EXTENT	OF PROBLEM	AREAS			
Total Area of Park o	r Mon.	Eros	ion Types		Area involves			
					Acres			
r-42-191-1		\$1	ight		7 £ £44.			
project Area Symbol		CM.	jerate		16,600			
deral Area	94,241	Se	rious		17,900			
Non-Federal Area	9f0	Cr	itical		3,500			
				Total	38,000			
	5 8	M C WOR	K NEEDED					
Type of Work	_	A m	ount of Wo	rk	Estimated Cost			
		No.	Miles	Acres				
A. Planning and Perf 1. Conservation				94.881	s			
2. Land Classifi								
3. Land Use Plan	\$							
4. Performance 1	nventory			20,000	1,000			
3								
 Soil Treatment Gr Cover Crops 	000							
2. Crop improvem	ent							
3. Crop Residues								
4. Deep Plowing								
5. Fertilizer								
5. Liming								
7 Meadow Strips				alone air dir Africano di Africano di Mariano del Mari				
8. Rotations				94,581				
9. Rough Tillage				**************************************	BO TO THE REAL PROPERTY OF A P			
10. Seeding and P	lanting			3,000	21,000			
11. Strip Croppin	g				and the second s			
12. Tree Planting		50,000		50	3,500			
C. Control and Suppr	ession Group							
1. Brush and Wee	d Control				The second of th			
2. Fencing								
3. Pest Control					_			

Т	ype of Work		!	Amount of Work	<u> </u>	Estimated Cost
-		No.	Miles	Cu.yds.	Acres	
	r Control Group					
1.	Canals and Ditc			-	7605	25,000
2 •	Checks	2000			2:00	25,000
3.	Conduits				7.000	
4	Countouring				1,000	1,000
5.	Dams-Detention	1,000		10,000	1,200	2,000
6.	Dams-Diversion	1,000		20,000	2,000	4,000
7.	Dams-Retention					***************************************
8.	Dikes			5,000	200	1,000
9.	Drops					The state of the s
10.	Field Laterals					
11.	Jet ties	600			300	12,000
12.	Leveling					
13.	Outlets					
14.	Revetments			3,000	200	10,500
15.	Springs					
16.	Terraces			•	*	484
1 7.	Wells					
ND T	TOTAL					s 80,000

Summary of Activities and Practices

	Miles	Acres
Drainage		
Gully Control		6,000
Land Conversion		
Streambank Protection	6	500
Water Spreading		2,000

J. H. Conn	Lngin eer	1-4-52
raul L. palch	Soil Conservationist	4-25-52
Chester A. Thomas	Assistant Superintendent	4-26-52
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Form No. 10-740 UNITED STATES Department of the interior NATIONAL PARK SERVICE NATIONAL PARK SERVICE

PROGRAM SUMMARY SOIL AND MOISTURE CONSERVATION

Tiree	Zion National				Utah		
Region	Name of Park o	r Monume	nt		State		
1,8,1,11,	Acres		EXTENT	OF PROBLEM A	REAS		
tal Area of Park or	Mon.	Erosi	on Types		Area Involves Acres		
P-42-190-1 cject Area Symbol		Sli	ght				
oject Area Symbol		Mod	erat e				
Oka da sa a da da sa a sa a sa a sa a sa	22 0.32	Ser	ious		14,000		
Mederal Area Non-Mederal Area	33,921 14,423	cri	t ical		23,600		
				Total	37,600		
	S &	M C WORK	NEEDED				
Type of Work		Amo	unt of Wor	· k	Estimated Cost		
Oleanian and Demis		No.	Miles	Acres			
Planning and Perfo 1. Conservation S				18.101	s		
2. Land Classific	ation				grant party MERITANIA Share of the contribution on 4 to 10 to 10 to 10.		
3. Land Use Plans	-			and unitary him or house the pay, were unitary	unggrungsforge till förformennen prosper – sage – selte s – s – s – s – s		
4. Performance in	ventory			30,000			
Soil Treatment Gro	ир						
1. Cover Crops				manager #MANASTAN	-		
2. Crop Improveme	nt			- Company of the Control of the Cont	The second section of the second seco		
3. Crop Residues				and the second s	ramps a raise por Mills of the Management in the Management (Mills of Mills		
4. Casp Plowing				- Alle	man design to		
5. Fertilizer					Annual An		
6. Liming					and the second s		
7. Meadow Strips				manuscrape and an income	garagers, there is high discontinuous as a masse.		
8. Rotations				1.8,1.11	and the companies of the first - submitted of		
9. Pough Fillage				tota antina angles y an antina angles an angles and	A		
10. Seeding and Pl	anting			5,000_	35,000		
11. Strip Cropping		100		100	1.00		
12. Tree Planting		100.		100	<u>, 100</u>		
control and Suppre	The state of the s						
1. Brush and weed	Control			0.750			
2. Fenning				2,000	<u></u>		
3. Pest Control							

Type of Work	<u> </u>		Amount of Wor	<u>k</u>	Estimated Co
	No.	Miles	Cu.yds.	Acres	
ater Control Group	•				
1. Canals and Ditc	1.500_			1.500	22,500
2. Checks					
3. Conduits				3,000	2 000
4. Countouring	3 000		70.000		3,000
5. Dams-Detention	1,000_		10,000	1,200	2,000
6. Dams-Diversion	1,500		25,000	3,000	5,000
7. Dams-Retention					
8. Dikes			5,000	200	1,000
9. Drops					
O. Field Laterals					A Magazillinian Alfredom Fiberidinis ev venteraproriyasis - riss
1. Jetties				100	2,000
2. Leveling				11.5	
3. Outlets					
4. Revetments			300	20	1,000
5. Springs					
6. Terraces				-	
7. Wells					
D TOTAL					<u>s</u> 84,000
	Summary (of Activit	ies and Pract	ı c e s	
			Hill		ies
Drainage					and the second s

	Miles	Acres
Drainage		
Gully Control		7,000
Land Conversion		2,000
Streambank Protection	2	150
water Spreading		3,000

J. A. Conn	Bhriness	1-4-92
Faul L. palch	Soil Conservitionist	4-25-52
Chester A. Thomas	Assistant purerint moent	h-28-52

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Legional Tilce Andlington Cillian Architect landocare) . Archisect Town Concessions Wanagement _ oxis afety ecreation arming inecin esient Jief Floring to Detaile (SGD) THUS. C. YINT - 4,0, + 19+0°

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Muster Flan Development Fitline Zion Northand Burk and Monument, Ptah

5. Operation (Continued)

o. <u>COSSIONS</u>

Tender sion Cojectives

a) Trees. Lors Destre

Do th Entrumon Arma. The carbteria type of earlier facility new operation in this area is must desigable and an endapmement of the structure should be considered to heer sage with this area's develorment and the public derived for moderate meal prices. The establishment of a reneral store to provide a greater variety of camper sugplies appears desirable. More housing or sleeping apportmodations are nested. At a resent there are 30 caling, superctivation are two-room assot, and the installation in each of a fesers a ster or strainful time is cost earreserved to the first limited with a workling or compact to the disgrand grand residence appearance that he was a first of the section of the section of unter", which has been and wifted to the devolutions, to a conome that the contribution of the highest-property communication and medical are not sever appoint from Later to has been suggested that a more appropriate name, such as "Lion Inn", be used to identify the convessioner's offeterms and eachs in the Bouth Entrance Area. There is a result need for a root of a to a separately howe the actions olomoria etaleve a.

duel Lord At a more wears or every factulity in a relief every factulity in a relief every from the bine to be about an deptember. The fact discoveries as also be area and a few antenance as a constant and a soft is ancertain of the Bion Loade is a subject of the solution of the Bion Loade is a subject of the solution .

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there she ld use we ashered during the spacety and facilities of anomals the propert oversight capacity in the Zlon Lodge himse.

Acot Entrance (Paylor (reex) Area. Attention should be focused on all others outside of Zich Canyon in order to reduce the impact on the Canyon Area. Faylor Creek, at the entrance to Zich Nasional Momument, is one such area and should be considered for development in the master planning of the Eura and somment.

. Romines In Alded the most rank

Tyringman, Number of lation, late tensus, 20%. In a small community located approximately one mile from the South Entrance area and 6% males from the Lion Loave area. Overnight as commodations and meal service establishman have been non-structed in increasing numbers during the past tensus.

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20 years, January 1, le49 through Describer 31, 1864.

Jervices Authorized

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The Tornors Joner 10 stationized to the and it responsible for the minterance of an area of a proximately 31 cores surrounding the Louise and adjacent cabin area; approximately 5 acres occupied by his utility area are approximately 16 serves at the south entrance surrounding the cafeteria, oaklas and termice obstion.

Paul R. Franke, Superintendent 12-20-52

A. M. Koehler, Regional Chief of Concession a 3-27-53. Management and the second of the second o The gradient of the control of the c 6-4-53 Paul R. Pranke and the second of the second o

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March 1957

Zion National Park

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					Zion Camp Center Zion Lodge Area
9WG	Bake Shop - 1 room	x	%	X	x
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505	Ladies' Dormitory - 24 rooms	X	ж	ж	x
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Zion National Park

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Zion Lodge Area Zion Camp Center

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Power House - 1 room Cabin Blacksmith Shop - 1 room Horse barn - 4 rooms

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Zion National Park

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Zion National Park

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Buildings Page 14 of 14 March, 1957

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April 15, 1952

MASTER PLAN DEVELOPMENT OUTLINE

Zion National Fark, Utah

Water System

UTILITIES

Town of Springdale

In accordance with Act of Congress, 45 Stat. 784, approved May 28, 1928, the town obtains water from springs in a side canyon, off of Oak Creek Canyon. The system consists of a collecting basin and a two-inch line to the town reservoir located outside the park.

National Park Service

The Service operates and maintains water systems at Oak Creek, Birch Creek, Grotto, Temple of Sinawava, and East Entrance.

Cak Creek System

- (a) Source Three springs, collected underground and piped into a concrete collecting box. Supplies 25,000 gallons daily.
- (b) Supply Main 5,330 feet of two-inch C.I. pipe, 3,450 feet three-inch C.I. pipe, and 200 feet one-inch G.I. pipe.
- (c) Storage 50,000-gallon concrete tank, connected to 200,000-gallon Birch Creek tank.
- (d) Treatment None.
- (e) Distribution Mains.

See Birch Creek System.

Birch Creek System

(a) Source - Two springs, walled in, about 20 feet up the face of the cliff, at upper end of Birch Creek Canyon.

- A small spring on south side of Canyon is collected in underground box and piped to a concrete box on main line.
- (b) Supply Main A gravity supply main consists of 1,800 feet of galvanized steel pipe from spyings to desilting box. 2,300 feet four-inch black steel pipe, coated, from desilting box to junction box where flow from small spring mentioned above enters system; and 11,000 feet six-inch black steel pipe, coated, to junction with six-inch C.I. pipe in Oak Creek System. The available supply is 75 gpm.
- (c) Storage 200,000-gallon concrete tank connected to 50,000-gallon Oak Creek tank.
- (d) Treatment None.
- (e) <u>Distribution Mains</u> Distribution from the reservoirs through the Oak Creek residential area and to the rear of the Cafeteria is by six-inch cast iron main. A four-inch C.I. line extends to the Camp Ground, with two-inch line through the Gamp Ground, with faucets. Service to the Cafeteria and Cabins is four-inch C.I. A two-inch galvanized line serves the old CCC Camp. The utility area is served by a six-inch C.I. line from the reservoirs, with a four-inch C.I. loop around the area.

 The headquarters area is served by a two-inch galvanized steel pipe which connects to the six-inch supply main under the Virgin River Bridge. (The two-inch line from Pine Creek Spring has been abandoned.)

Sewerage Systems

South Entrance - Oak Creek - Cafeteria Area

- (a) Ownership Government.
- (c) A six-inch sewer line from the Utility-Residential Area in Oak Creek runs past the Cafeteria Development and the South Entrance camp ground. Eranch lines collect the sewage from these two developments. The main line increases to eightinch and crosses the Virgin River to the east side of the valley. The sewage flows into an 8,000-gallon concrete septic tank.
- (d) Disposal Systems Effluent from the septic tank is disposed of by means of 68h feet of half round 50-inch corrugated metal trenches.

Headquarters

(c) Sewage from the three mesidences is collected by a six-inch sewer conveyed across the highway and disposed of in a cesspool.

Sewage from the public comfort station is conveyed to a cesspool back of the museum.

Grotto Camp Ground

Sewage from the two comfort stations and from the caretakerss cabin is collected by six-inch sewers and conveyed to a septic tank and tile field below the camp ground.

Temple of Sinewava

Sewage from the comfort station flows to a septic tank and tile field between the building and the road.

Concessioner's Sewerage - Zion Lodge

All sewage from the Lodge operation is collected by fourinch and six-inch laterals and emptied into an eight-inch
main which carries the sewage to the disposal plant located
on the west side of the Virgin River just above the mouth
of Birch Creek.

The sewage is digested in a concrete septic tank, with the effluent entering a dozing tank. Sewage pumps, controlled by float switches in the dosing tank, pump the effluent to either of two spray systems.

Garbage and Refuse Disposal

All garbage and refuse is disposed in a combination burn-bury pit located on the east side of the Virgin River, across from the south entrance camp ground.

Power System

Electric power is obtained from the 33,000-volt 3-phase line of the Utah Fower and Light Company. A transformer station at the Park Entrance reduces this voltage to 2,300 for use at the Oak Creek Area, Cafeteria and campground and at Headquarters Area. To serve the Lodge, the 33,000-volt line extends to the Utah Parks Company Utility Area where it is reduced to 2,300 volts for distribution through the Lodge Development.

Communications

Telephone service in the park is furnished by the Mountain States Telephone and Telegraph Company. Phones are located in the Administration Building, Superintendent's residence, and Lodge.

The park system consists of a 20-drop switchboard with phones in offices, residences, ranger stations, cafeteria and lodge,

Concessioner has a two-wire copper circuit connecting all the Utah Parks Company's operations in Cedar City, Zion, Bryce, Cedar Breaks, Kanab, and North Rim of Grand Canyon. The Administration Building has a phone on this circuit. I therefore in the best

Radio

The park has a 50-watt Jefferson-Trevis transceiver operating on 5,150 kc for communication with its coordinated areas and with the Regional Office and other areas.

It is proposed to install an FM system for intraperk communication.

Fuel System

Fuel is a combination of coal, oil, LP gas, and electricity.



UTAH PARKS COMPANY

LODGE-MOTEL AND TRANSPORTATION SERVICE

BRYCE-ZION-GRAND CANYON NATIONAL PARKS

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Zion National Park Springdale, Utah

COPY IN Coda Sheak

April 19, 1957

Menorandum

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The Mrector

From:

Superintendent, Zion

Subject: Report on Public Accommodations, Zion and Cedar Breaks.

In compliance with "emcrandum FO 19-57, the requested report consisting of Schedules & through D are attached in original and one copy together with cepter of the Concessioner's covering letter of explanation.

The schedules and covering letter agree with the Mission 66 plans for both Zion and Gedar Breaks.

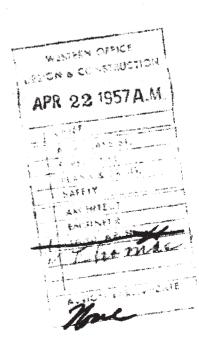
Copies have been mailed to Region Three and WORD offices.

(SGD) PAUL R. FRANKE

Prof E. Franko Superintendent

Attachments

on Region Three, w. attachments or WCDC, w. attachments



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FOR

ZION NATIONAL PARK

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WHAT IS MISSION 66?

MISSION 66 is a forward-looking program for the National Park System intended to so develop and staff these priceless possessions of the American people as to permit their wisest possible use; maximum enjoyment for those who use them; and maximum protection of the scenic, scientific, wilderness, and historic resources that give them distinction.

Construction is an important element of the program. Modern roads, well planned trails, utilities, camp and picnic grounds, and many kinds of structures needed for public use or administration, to meet the requirements of an expected 80 million visitors in 1966, are necessary; but they are simply one means by which "enjoyment-without-impairment" is to be provided.

Under this program, outmoded and inadequate facilities will be replaced with physical improvements adequate for expected demands but so designed and located as to reduce the impact of public use on valuable and destructible features. It will provide both facilities and personnel for visitor services of the quality and quantity that the public is entitled to expect in its National Park System. It is intended to assure the fullest possible degree of protection, both to visitors and resources.

MISSION 66 is a long-range program, it will require at least 10 years to accomplish on a sound and realistic dollar basis. That means completion in 1966 -- the 50th anniversary year of the establishment of the National Park Service. The program has received enthusiastic endorsement by the President of the United States and his Cabinet, and well received by the Congress and the Nation at large.

The MISSION 65 program, as it pertains to LION NATIONAL PARK, is briefed in the accompanying report to provide information on what is planned and when it will be accomplished.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

MISSION 66 for ZION NATIONAL PARK

Introduction

What is Zion?

There is probably no other region in the world that contains so remarkable, varied and extensive exhibits demonstrating the mobility of the Earth's crust as one finds at Zion. Here are classic examples where faulting, vulcanism, uplift, depression and dip as a control in forming and shaping the earth's surface are evident. With later sculpturing by nature's tools of erosion we have a pattern which gives Zion prominence among regions of phenomenal landscapes. Plants and animals of Zion demonstrate many life zones illustrating the influence of geologic processes.

Zion National Park was established first as a National Monument from a rough, deep canyoned wilderness. On the fringes of this wild country there were settlements by early pioneers seeking to wrest a living from small irrigated ranches. Cautions not to disturb these early settlers, led to administrative difficulties and left little or no land available for public use. As a result four different legislative acts were required through the years to bring into being an area of 220 square miles encompassing the scenic phenomena and providing space for the many thousands of visitors who come annually from all over the world.

Amid the great uplifted block which is Zion, great faults exhibit their most spectacular features. The agents of erosion, water, wind and temperatures have with the aid of time gouged tremendous canyons into the terraces, leaving within towering peaks, flat topped mesas, sheer pinnacles, arches and natural bridges. Within the steep, narrow, meandering canyons are streams, which in time of storm become raging torrents continuing to carry away the debris of the erosional agents. Here the desert meets the mountains and amid the sheer-walled canyons are found a flore and fauna spanning four climatic zones. Cinder cones and lava flows exhibit crustal movements many ages after the uplift occurred.

There is evidence of aboriginal occupation. The Basket Makers and Pueblos lived along the periphery depending upon the templed vastness for their game, berries, fruits and implements of stone. Historical personages passed along the area starting in 1776 as Fray Escalante came this way from Santa Fe in search of a route to Monterey.

The spectacular setting is all in color which makes the area a pleasure to behold and a photographer's paradise. The tremendous scale and color is the feature that overwhelms the visitor as he stand within the colored walls in cathedrallike stillness, broken only by rushing water or the song of birds. A visit to Zion is a profound emotional and esthetic experience.

The Significant Values of Zion

No conversion process is required to translate the power of these resources into human enjoyment save the exercise of the imagination and energy, and the play of the mind and the emotions of the visitor himself. The benefits of the park flow directly from the natural scene. What is the nature of those benefits' People visit Zion in part because they seek a curative contrast to the stress and intensity of daily living, relief from cumulative fatigue, and tension. They come as well because they feel a compelling attraction for the beauty, excitement, and mystery of its varied attractions. Zion satisfies both needs in unexpected measure. So different is the environment that the visitor, who for a while lives a life entirely apart from anything in his normal pattern of experience, finds new muscles are exercised, new interests generated, new ideas acquired, and the most wholesome emotions savored.

The visitor comes to enjoy the beautiful scenery, perhaps to fish, to camp, to motor, to hike, and to take pictures. The superlative and pristine character of Zion intensifies these experiences far beyond the visitor's expectations. Moreover, he is often even more impressed in ways not anticipated. The visitor comes not to learn, but neverthe less finds the stories of the canyons, mountains, wildlife, and of the human history of the region, most fascinating. He acquires knowledge in ways that stimulate him to further explorations of nature and of man's place in the picture. The end product is very often an intense personal pride — the pride of ownership, pride in the beauty of the land, and pride of citizenship in a country that counts the beauty of an unimpaired landscape among its valued resources.

Refreshment of the physical man, mental stimulation, esthetic enjoyment, and regeneration of spirit are the benefits that Zion provides.

The Means to the End

If the park is to yield a proper measure of human values, three things are required; an adequate road and trail system to give access to the important and significant features of the park. Facilities, adequate in quality and quantity, to cater to visitor comfort, welfare, and subsistence; and effective presentation and interpretation of the varied inherent resources of Zion.

The present road system provides access, samples representative scenes, and brings the traveler reasonably close to major points of interest only to Zion and Pine Creek Canyons. An extension of the road system into the Kolob Section will be constructed to enable the visitor to enjoy the superb features in that area. Extensive modernization of the existing roads is required, as well as some relocations to improve views and interpretive opportunities, or to eliminate intrusions upon fragile and scenic areas.

From the roads, more intimate access by trail to important features is required. This calls for well constructed trails and paths, located and designed to afford protection of fragile formations and to take full advantage of scenic and interpretive opportunity. New trails into the back country are necessary in the Kolob Section and must necessarily be connected to existing trails.

Zion is not fully experienced in a single day. It is so vast, varied, and remote that the normal visitor must remain within the boundaries from overnight to a week or more. Neighboring communities can at this time take care of the visitor's needs throughout a large part of the year, but during the height of the travel season the accommodations outside the park must for some years to come be supplemented by facilities within. The needs are for adequate lodges, campgrounds and picnic grounds, as well as meal service, supplies, medical and other services comparable to those required in a small city.

Efficiency presentation of the park scene, and an interpretation of its meanings are the third requisite of beneficial park use. Properly located roads, trails, and scenic overlooks are themselves very important in revealing the significant park scenes. In addition to general travel

information and orientation, the visitor requires a basic nucleus of interpretive information to give meaning to park features. The interpretive program must first emphasize the distinctive qualities of the area; its deep narrow canyons, volcanism, huge monoliths, towers and peaks, the displacements and other geologic features, plus the plants and animals of Zion; as an ecologic community. It should make this basic story easily available to essentially every visitor. The interpretive objective is to give the visitor the general information that will enable him to use the park wisely, and the basic understanding that will enable him to derive to the fullest degree enjoyment from its educational and inspirational values.

Facilities and the personnel necessary for the administration, maintenance and care of facilities, the protection of natural features, and housing for personnel are complementary requirements.

Safeguarding Zion

The preservation of the park's resources, a requirement of the law, is moreover a practical necessity for the perpetuation of the opportunity for beneficial park use. The preservation of the wilderness areas and of the wilderness quality of the park as a whole, the maintenance of wildlife at an ecologically sound level, and defense of fragile and irreplaceable features against damage or destruction, are required. To these ends, development, use and management must be governed by certain limitations and controls. In general, these are as follows:

The existing wilderness areas of the park shall not be diminished by the extension of roads or other developments beyond limits essential to making a representative part of the area accessible for use and enjoyment by the public. Such developments as are required for wilderness use shall be simple, and appropriate to wilderness environment.

A realistic and practical program of wildlife research and managment shall be pursued.

Private land holdings within the exterior boundaries, that impair the basic values and use of the park, or interfere with the preservation of the scenic and natural values will be acquired by the Federal government.

Adverse uses of the park lands which impair their value as natural areas such as grazing and other non-conforming use will te eliminated.

All facilities for the accommodation of visitors and related services shall be limited to designated areas, attractive but of lesser park value, reserving the important scenic and scientific areas for recreational, educational and inspirational enjoyment.

The Problem

What is the conservation and the use problem of Zion today?

First, there has been a phenomenal increase in visitation to this park. Travel has more than doubled every ten years since the park was established in 1919. Here is the travel picture in brief:

1926	21,964
1936	124,393
1946	207,651
1956	421,163
1966	Over 800,000 visitors predicted.

Secondly, this increase in travel, accounted for in large part by the increased use of the automobile, has been accompanied by an equally significant change in the travel and use habits of visitors. This, in turn, requires a different operating plan and different types of facilities than those first developed in this park. For example, the train and bus "package" tour, which characterized early day travel, required large hotels and dining rooms situated close to the main points of interest. Today, the more mobile and more independent motorist requires motels, campgrounds, cafeterias or coffee shops, and picnic areas, but these do not need to be within walking distance of the park's major attractions. Their need for larger parking areas and improved road standards is obvious.

Third, since travel is eight times what it was 25 years ago, expansion and modernization of facilities have lagged far behind. This is reflected in serious inadequacies in roads and parking areas, overnight accommodations, eating facilities, campgrounds, public use buildings, as well as in water and sewer and other utility systems, shops, warehouses, employee quarters, administrative facilities, and all other developments necessary to administer, maintain, and protect the area. Most inadequate to serve its visitors is the small one-room museum, the center of the interpretive program.

Fourth, annual operating funds and staffing similarly have fallen far behind actual needs. Since 1940, travel has tripled, but the park staff has been increased by only about 15 percent. This deficiency is reflected in inadequate protection of the forests and natural features, inadequate maintenance of facilities, and serious shortcomings in service to visitors.

Fifth, and most basic, the gradual expansion and intensive development of accommodations centers adjacent to the main scenic attractions, a logical location in the days of the package tour, have become serious bottlenecks in this day of auto tourism. Not only do these developments today threaten the scenic quality of their environment, but they are a serious handicap to the visitor in his full and intelligent use and enjoyment of the most important attractions of the park. These developments are not capable of additional expansion, and furthermore, they are not strategically located in consideration of the volume of today's use, and the mobility of the modern motorist.

In brief, the problem of Zion is compounded of expanding travel, outmoded facilities, delayed development, inadequate operating funds, and development by accretion along lines incapable of further expansion in present locations.

The Program

MISSION 56 seeks to provide adequate facilities, and to redirect the development, management, and use of the park along lines adapted to the volume and the kind of use anticipated in the future. There is no doubt that travel to this park will continue to expand at a significant rate. Nor is there any doubt of the capacity of Zion by properly planned developments to absorb, without damage, the use of increasing hundreds of thousands of visitors. How can this be done

Road Improvement and Extension

The road system is a very important key to the effective use of the park. The existing road into Zion Canyon and the Zion-Mt. Carmel road give access to only a small portion of the park, yet they carry all the traffic. Zion Canyon is receiving a volume of park visitors which is developing a condition of over-crowding and damaging to the landscape. The problem is complicated by the south to east entrance through road which must, in addition to the park visitor, carry commercial traffic.

To alleviate the congestion in Zion Canyon a road will be constructed to give access to the western portion of the Park, known as the Kolob Section of Zion. This road will expose significant features and stenes without requiring all visitors to concentrate on and in Zion Canyon.

The present system needs to be brought up to more modern standards. All main roads where conditions permit will have their paved surfaces improved, shoulders widened, and additional viewpoint parking areas provided, so the visitor may enjoy the scene in safety. Some minor relocation will be required where the road presently intrudes unnecessarily upon scenic or fragile areas, or where it may be desirable to improve the view, the interpretive possibilities, and correct traffic hazards. The large tunnel on the Mt. Carmel road will be painted a light color for safer travel conditions.

But, the mere improvement of road standards will not in itself relieve traffic congestion. Traffic today is obstructed, less by the outdated road standard, than by cars which slow down and stop to view a scene, take a picture or study an interpretive marker. Just as important as the roadway itself are parking areas and turnouts where the visitor can safely stop for his enjoyment without impeding the normal flow of traffic.

Roadside Interpretation

A park road is more than a route connecting one point with another. Properly designed, and properly served, it should provide a continuous, developing experience in viewing, enjoying, and understanding a beautiful and exciting new country. A complete system of roadside interpretive devices, ranging from museums, to roadside exhibits, information signs and markers, and simple view-finders, is planned. The entire journey through the park should thus become a continuous series of new pleasures. Most people will linger longer, as they do today, in the scenic locations, but in the future much more of the rest of the park along the route of travel will have interest and appeal, too. The result greater distribution of use, a larger proportion of the visitors dispersed along the road system - picnicking, learning, observing, and photographing - and a smaller proportion of the visitors at any given time concentrated in the few scenic locations now available. This development alone will greatly increase the capacity of the park to serve its growing numbers of visitors.

A New Plan for Development is Indicated

A cottage cannot be transformed into a skyscraper merely by adding story upon story. Sion cannot be equipped to serve doubled and redoubled numbers of visitors merely by expanding existing facilities in their present locations. The limit already has been exceeded, and to continue this process through the next stage of development will damage or even destroy the scenic and inspirational quality of the very things that people come to the park to see and to enjoy.

Nor is such a process necessary or desirable from the standpoint of effective use of the park. The visitor today is a very mobile person. His explorations are not confined to the immediate environs of his camp or lodging site, but encompass the entire accessible portion of the park. A spectacular scene is not requisite to a good night's sleep, an enjoyable meal, or the purchase of gas, a curio, or a bag of groceries. But, today Zion Canyon, for example, serves many purposes - providing all the services required in a small city. Primarily, it is an area to see, to enjoy, to understand, and to take recreational and esthetic pleasure from. In addition, it is a lodge, inn, and cabin site, two campgrounds, overcrowded parking areas, a place to get meals and buy gas, curios, and groceries. Cars are repaired, power generated, horses stabled, fire and maintenance equipment stored, and employees housed and fed, all within the foreground of Zion's most inspiring and precious scenes.

The answer to this situation is obvious. MISSION 66 plan proposes the development of new accommodations and service centers outside the park. Improvement of existing roads, additional parking areas, added roads and trails, will disperse use more evenly and over a greater area. It proposes the construction of new housing for employees and new maintenance yards and shops farther down the canyon removed from the foreground of the splendid views of the canyon. The primary scenic and scientific areas will be reserved for recreational, interpretive, and esthetic enjoyment. Less vital areas, yet convenient to the major attractions and in park-like surroundings, will be developed to take care of the physical comforts and necessities of the visitor, and of the requirements for administrative, maintenance, and service facilities. The sites for these developments available within the park are capable of adjustment and expansion to meet any anticipated future needs, thus avoiding the bottleneck situation now prevailing.

This pattern of development is perhaps the most important single step in the entire program from the standpoint of the conservation and protection, and the perpetuation of the opportunity to enjoy the truly significant features of the park.

The New Developed Areas

In view of the increasing development of overnight facilities accommodations and services in the nearby town of Springdale no expansion of these facilities is contemplated in Zion Canyon. On the contrary, it is the long range view and plan that concessioner facilities here will be reduced gradually, retaining only the minimum facilities as will be necessary to provide needs which cannot be secured outside the park.

The area of Zion Canyon from the South Entrance to the Virgin River Crossing is expected to carry the heaviest public use load. Within the park and at the beginning of the interpretive portion of the area road, a new visitor center will be provided. This will house administrative, fiscal, and protection division offices, but of most importance to the visitor, it will contain exhibits designed to give the visitor the background information so necessary for his understanding, use and appreciation of the area. Space will be provided for talks to visitor groups and for the display and storage of historic and prehistoric objects recovered and donated to the park. There will be offices for the interpretive personnel, work rooms, and a library room.

The existing Service facilities such as warehouses, maintenance shops, storage yards and employee housing will be maintained in their present locations until such time as time and use will make their value very low. Serviceable buildings will not be razed but no new buildings will be constructed in the scenic parts of the canyon. All additional buildings and facilities and replacements, as old buildings become unserviceable, will be constructed in the lower canyon at the site known as the Watchman Residential and Utility Area. New residences for employee housing, maintenance shops, buildings, and utility yards will be developed at this site.

The developments necessary to enable visitors to enjoy the superb features of the Kolob Section of the park will be constructed in the Taylor Creek-LaVerkin Creek Area. The new road will connect with Highway 91 at Taylor Creek. At this site the land is of lesser scenic value and will permit construction of entrance station, modest maintenance shops, and housing for the protective and operating personnel necessary.

At Three Creeks, a public comfort station and wayside interpretive facilities will be provided.

At the end of the road in LaVerkin Canyon, a campground lecture circle, visitor center and quarters for a ranger and maintenanceman will be provided.

At Death Point, a trail and parking area and simple interpretive facilities will be provided to make this outstanding view more enjoyable and understandable to the public.

At Lava Point, certain protective structures such as a fire lookout and ranger station will be constructed.

At none of the above mentioned developments are overnight accommodations contemplated except for the campgrounds proposed at LaVerkin Creek. Visitor use of the Kolob Section will be confined to day use with accommodations available in nearby towns along Highway 91.

Campgrounds

The campground in Zion Canyon will be expanded to its planned capacity of 175 campsites. To care for the increased campers in the park, the 150 site campground in LaVerkin Creek will be developed. As the Grotto Campground is located in the heart of Zion Canyon, overnight camping will be discontinued and the site will be converted to a day use picnic area, when the South and LaVerkin Creek campgrounds are developed to a point where they will accommodate the public coming to spend their nights out-of-doors.

Visitor Services

As travel continues to increase, and to include a larger proportion of people inexperienced in out-of-door life and Mational Park purposes, informational and interpretive service assumes a growing importance. Such service helps the visitor to use the park wisely, and enhances his enjoyment and the understanding of its features. Moreover, the preservation of the features of the park is an added dividend, for an appreciative and understanding body of visitors is the best defense against unknowing, inadvertent, or willful damage to park features and resources.

The facilities necessary for this purpose - readside and trailside exhibits and markers, wayside museums, visitor centers, campfire circles, and assembly rooms - are identified elsewhere in this report. It is sufficient to say that MISSION 65 proposes an interpretive program which encompasses the entire

park, and integrates the presentation of the park scene with the visitor's individual movement through the area. The information and interpretive program will be so presented that the visitor can and will want to avail himself of it independently as he travels from place to place. It will encompass the entire park so that as each new problem of where to go and what to see and do arises, and as each new phenomenon is viewed, the answer to the visitor's questions will be there for his self-guidance. Expansion of facilities and services is called for, but along lines geared to the travel and use patterns of the modern visitor.

Behind the Scenes

There are a great many things in a park the size of Zion that never come to the attention of visitors, but without which the park could not long operate. The visitor turns the tap and water flows from a campground hydrant, or gushes from a drinking fountain. This is such an everyday occurrence that he never realizes the extensive system of utilities required to support him and his thousands of companions in the park. Water systems, power plants, transmission lines, sewage and garbage disposal, telephone systems and irrigating ditches to provide shade for campers, must all be installed and maintained. Carpenter shops, plumbing shops, machine repair shops, paintshops, storage buildings, garages for equipment - all are part of the necessary behind the scenes facilities, as is adequate housing for government employees. For every twenty persons in the park at a given time in the summer, one is a worker, serving either the concessioner or the government.

Without going into further detail, the status of these behind the scenes facilities is to better than that of campgrounds, lodges, roads, and other facilities that come to public notice. A considerable part of the MISSION 56 development program will consist of expansion and improvement to bring these facilities up to a standard that will adequately complement the expanded visitor use facilities.

Annual Operations

The complete program must also take into account the stepped up requirements for maintenance, protection, and service to visitors. Today, Zion requires an appropriation each year of approximately \$200,000 for these operations. The greatest expansion will be required for visitor services - maintenance and operation of utilities, roads, buildings, and campgrounds; safeguarding human life and property; and guide, information and interpretive services. There is no point in building new

and modern facilities unless a realistic program for their maintenance and operation is embarked upon at the same time, and unless the program also provides those protective, regulatory, and informational services which the visitors have a right to expect and which are necessary for their comfort, convenience, and pleasure.

One aspect of the operating program deserves special mention. Most of the improvements proposed under MISSION 65 are for the use or are necessitated by the presence of man in the area. But, Zion has over 156 square miles of forested lands, and a large population of native birds and animals. If this park had no visitors whatsoever, the protection and management of this sizeable resource would still be necessary. Increased visitation increases this responsibility, for many forest fires are man-caused, man's developments and activities effect certain changes in the environmental relationships, and some of the chief problems involved in maintaining a balanced wildlife population arise from wildlife's relationship to man. Active management is called for - corrective management necessitated by man's influence rather than management of the natural elements of the environment. Such management, if it is to be effective and consistent with National Park purposes, must be based on accurate knowledge obtained through observation and research. And, once a course of action is indicated, the means must be available to carry it out. The MISSION 55 program for annual operations includes personnel and funds necessary for a continuing program of research, and for defense against forest fires, forest disease and insect infestation, soil erosion, unbalanced wildlife populations and the like.

SUMMARY

To be sure this program will require the expenditure of considerable money, much of it in simply catching up on the things which have for so long needed improving. The following tabulation is not a firm and final statement but will indicate the size and scope of improvements included in the program over the next ten years:

Roads and Trails Improvements
Buildings, Visitor Centers, Employee Housing, Maintenance Buildings, Toilets 1,716,600
Utilities: water, power, sewage systems
Miscellaneous: campgrounds, picnic areas, land- scaping, et cetera
Total Cost of Physical Development

Some of this development may start at once, but, for several reasons, the entire project cannot be completed for several years. First, field surveys and detailed construction plans have to be completed before certain parts of the work can be undertaken. Furthermore, the program for this area is but one part of the MISSION 56 program encompassing all of the 180 areas in the System. All areas will benefit in proportion to their need, and the entire improvement program will be completed by 1966.

CONCLUSION

There is a new day ahead for the visitors to Zion National Park. New developments will, by 1966, prepare the park to return to the people of America a full measure of enjoyment, understanding and inspiration - the products of an unspoiled natural scene. By eliminating the frustrations and delays of traffic jams, providing adequate places to stop and enjoy the scenes, take pictures and enjoy the interpretive exhibits, more time and certainly a frame of mind more receptive to enjoyment will be generated.

For awhile, as new facilities are being installed, there will be a period of some inconvenience - roads, especially, are not rebuilt without some disruptions in traffic. But, on the whole, new construction will be packaged so that each new development will be completed rapidly, economically, and with least disturbance to the visitors. By 1966 the visitor will find Zion attuned to the times, and equipped for the needs of the day.

Quickly settled for the period of his vilt in one of the several comfortable and attractive accommodations centers, the visitor will move outward along well-designed roads for his daytime excursions and explorations of the park. Travel along the park roads will be a continuous and meaningful experience in observing, enjoying, and understanding Zion. The motorist will pause frequently at parking strips to savor an exceptional scenic view, to observe wildlife, or to examine the character

of the land are forest. At each pause an interpretive sign or exhibit will aid in his understanding and appreciation of the scene before him. Safe and inviting trails will lead him through the enchanting gorges, to vantage points for the best views, and along routes that reveal the significant aspects of the natural and human history of the Zion Canyon Country.

Sometimes the visitor will join a party under the leadership of a ranger naturalist to explore and become acquainted with the meanings of the trailside. As he browses through the exhibit rooms of visitor centers, he will review the experiences of the day, and get a foretaste of what lies before him the next day. In the evenings, campfire programs and illustrated talks will provide relaxation, bring his park experiences into meaningful relationship, and disclose new facets of this mysterious, intriguing, and scenic country.

But, the MISSION 66 plan means much more than the immediate comfort, convenience, or pleasure of the individual visitor. It is basically a conservation program - conservation accomplished by keeping intensive developments away from the features that distinguish Zion, by confining developments for human comfort to lands of lesser park value, by restoring and preserving the scenic and natural character of those areas whose primary value is scenic and interpretive enjoyment, and by reserving large blocks of the park from all development whatsoever. The Great White Throne, as an example, will remain unimpaired, the beauty of its environment enhanced by the adequate parking area and interpretive exhibits. What is more, once it is devoted exclusively to scenic and interpretive enjoyment, the park will remain unimpaired for the undiminished enjoyment of generations yet unborn.

MINERAL SALAMAN PARK December 10, 1956

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1. Statement of Significance

Zion National Park contains gradeur of colorful caryon and mean scenery that ranks high mong the separative scenes are of the world. Sion National Park brings to the righter understanding and realization of the mobility of the earth's crust. Here are manifested exhibits of familiar, folding and volumism producing an erosional pattern of transdeus proportions. Plants and emission influenced by the geologic processes span life senses from the desert to high nountains. Visitors are impressed with the evidence of powerful natural forces which have been and still are at work, in the series stroughers of an outdoor cathedral.

II. Hanagement and Development Thome

The emphasis for the management and development of Jan National Park must be to bring to subjuit for the visitor those deminent and salient features which give it significance enoug arous of the National Park by your. Her National Park is open to visitors throughout the year and an adequate year round staff is examinate. Matter sports are not involved, but protection and interpretation must be conducted through all four seasons.

The great uplifted block lying between the Sevier Fault to the East and the Harrisone Fault to the Seat and blits its most spectagolar features in Rion. The agents of dragion, unter, wind, and temperatures, subpagased to Faulting and uplift, have with the sid of time, gauged transmiste convens into the terrors, leaving within towaring posts, fall-temped meson, shear plantales, erabes and natural bridges. Sitain the stoop, nervous meandaring convens are atream which continue to carry may the debrie of the erosional agents. And the shear walled convens are seen thaty areas within which live a flore and fame spenning climatic sames without charge of minutes or latitude. This eres is an elaborate outdoor expense of materials master work.

There is much evidence of speriginal compation. The Basketmakers and Packlon lived along the parishery depending upon the error for their game, wild fruits, and implements of stone.

The story is three dimensional; goologis, biologic and historic. Of primary importance are readways into, ever, and to important goologic phononens. A sample evayon am new be entered. A read, so the public may travel over or through one of the great faults, and ever the platean's lave fields to view the scene from above is essential to understarding. Trails are mesoscary to possit spaces to features beyond the readway and for beak-country experiences. The vactores of the area, its life area, and the potential vigitation of 750,000 manual visitors, district that many of these reads and trails be equipped with interpretative exhibits and self-guid a features. There is moded one large Visitor Center in Mono Carpen where the visitor may be received, informed and existed to plus his stay for greatest benefit. A second, analter Visitor Center is planted in the Kolob Area of the Park at Lawerkin Creek where there will be a campground, restaurant, store and trail hab.

The location of the eres, at the edge of the great intermountain depart, makes it a desirable place to linger overmight or for reveral days. Resoteness from large centers of population and limited seconsodations in marry rural communities require certain accommodations and porvices within the area, and adequate causing and planicking grounds. Oversight accommodations for four to five thousand people, both inside out outside the area, are considered the minimum for planning development.

notivities conceptible at the representation. The finite result many most of the conceptible at the representation. The finite ray blue over the short trails, or the pack or torgehack travel over the langer breils. There is makening, finhing and sur-bathing along at the other recreational opportunities, Friendly the vision will come to anjoy the source, meet undergoing through the interpretative progress, and gain spiritual rest and relaxation.

A strong interpretative progres with appropriate facilities will be developed. Fith orientation gained at the Visitor Seaters and by visits to expected and trailable arbibite, the public will benefit and be prepared to fally enjoy the area. There must be nightly prepared to fally enjoy the area. There must be nightly prepared on a complime talks and progress at the various public ass areas. Theregious the park there will be available a goodly number of appropriate, moderately prised publications and printed guides.

This tiens of development savisions (1) the presentation of the specialist stancy to the visuor; (2) the opp. That ty to all the understanding of the reader and listener; and (3) the chance to properly invest some beigness time to rest and refresh in lien; the whole leading to an impirational especiance, traditional, and to be expected in a vigit to a Matterial Park.

III. Park Organization

The type of organisation required to exercise the work of three national monuments, a field accounting office, and directly administer flow Extincel Park is similar to that existent for some years.

The proposition charte preparated stating first the soordinating office and describe its functions. Fire Madistal Payk organization short is so errosped as to present a single with all a functional descriptions. This necessarily requires some apparent implication of positions, which is not really the case. For excaple, the Countinating Superintendent and the Superintendent of Zion National Park are the same servers. This is true of the Park Naturalist under the Taskeleal produced and Division of the Coordinating Office, he being also Chief Fact Naturalist of Time. These deplications, requiring the holding of two offices, are indicated by an apparagic.

Complianting Office /martisage. The accordinating office will perfore for the goalf areas condinated the specialized work for which the small are. Is not equipped because of the small volume of more required. It gives the small area Superintendent the adventures of hering aloss at home a specialized staff actor it would never be practical for him to attain within his area, and at the case time leaves him free to administer his area on the ground. The coordinating office will farmish the following service to the areas under the coordinating jurisdiction of the office.

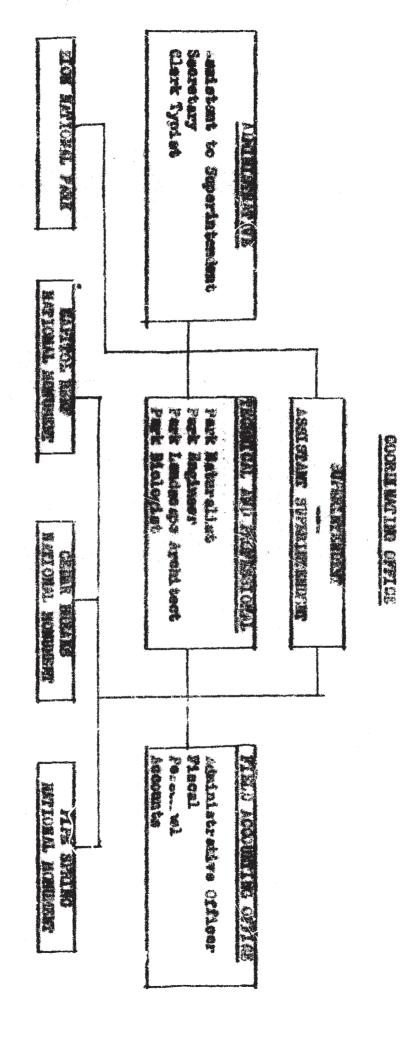
Specialist Service: The park engineer, park exchitere, park biologist and park forester will farmigh to the coordinated areas their special skills and advice to the coordinated esperintentients in administering their areas. They will perform many jobs within their special training direct for the area superintendent and will farmigh their advice to the apparintendents.

Maintebretive Service: The specialised functions of payrolling, personnel, fiscal accounting and property management and accountability will be performed for the areas by the organisation at the coordinating office.

Protection Service: The chief runger will give special advice on all protection problems to the cross and will securit in solving problems of training, planning, organization and research.

Interpretive Services: The chief park naturalist will aid in the planning, execution, training, and other functions for the coordinated area experiatendents. So will put at the disposal of the area experimendents his special skills, experience and equipment in the corrying out of the area program.

Maintenance and Conginention; The coordinating organization can firsted the special willist verters and the heavy and goad algorization can first to perfer asintenance and conginenties which it would not be possible to obtain in the area now to contrast in the vicinity. The volume of work continued in all of the areas will emble the one organization to profitably operate special and heavy equipment that would not be practical for the small areas along to have. Teo, skilled operators can be profitably employed year long the cameet to obtained so for frace a labor market for short periods of the year. Zion is admirably advected by eligate to coordinate the work with the administered areas. The market period on year long in that subminimmer work as sometiments can be carried on year long in that area. This enables the heavy equipment over to perfere assessant more to there areas in cases and course and course the grew and course the grew and conjugate the grew and conjugate profitably employed year long.



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IV. The Frogram

1. Visitor Accommodations

a. Provided by Consequieners: Utah Parks Company, Gudar City, Etah, under Confert No. 1-100mg-102, is militarised to farmish the following corrieos:

Lodging, meals, camps, garages, sorride stations, lamming before shop, Turkish and other boths, saturday pools, saturday and sports, sampspare and periodicals, sourestre, postocie, paintings, skotographs, photographic supplies, refrectants, tobacco and sacist's supplies, transportation services for passungers, baggage, sources, freight sad mgs., break transportation services, passed transportation, services, passed to services, services, stations, and restations, clothing, shows, herricase, pastices, tollet criticise, and restation of flating technology.

The concessioner is extherized to use and is responsible for the maintenance of an area of approximately 21 cares correcting tion Lodge and the adjacent cobin area; approximately 1 series recepted by his utility area, and approximately 16 series of the Satk Entrance surrounding the cafetonia, cabine and service station.

The existing contents with the Uteb Prote Company does not expire until December 11, 1966.

the period 1921 to 1955, and since the present facilities of the concessions are largely obsolute and considering the fact that private capital is providing very acceptable accommodations outside the part, it is not likely that editional contequioner facilities will be newled within Zion Conyan. It has been recommended that at the expiration of the existing contrast it not be removed as the scope which it now encourages. If, before expiration of the centract, the company wishes to discontinue some of its operations within the part, it should be execuraged to de go.

It is contemplated that overnight accommodations of the type usually furnished by a large concessioner will not be needed in the Kolch section. The extent of the services to be provided will be for expers supplies and food, light lumbes, cold drinks, and souvenirs. Overnight concessioner accommodations should not be permitted in the northwest section of the park, particularly not at the Laferkin Greek area.

from Thom Campon at once. But no more development of evernight accommodations within the park should be paraitioned. We should look to the time when the existing facilities will be materially reduced to espendial day use "notifies and exertises. It would be understruble to remove the entrependent operations

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THE REPORT OF THE TWO BILL LOCATED The marky bean districtly con-

in a less restricted part of the part. parties in house trailers. The last series will be a series of the seri page of their expension such to planty F T a

probably be closed shortly after September 30 each year. The c ground in Sion Caryon is kept open year long and will carry the in the program, because the wart side or Nator satisface read west. Later to sometrowed with later to be sometrowed to the site. The Mighe: elevation will provide many placement complete. The Lateratin Grant Gampground will not have to be operated for as HAT ATTENDED dates load. The proposed comparement in Lawardin Creek Compan will be expended to 150 car and tradibly at the 12 sufficient Long a season or there in Man Caryon and can dies out

2. Visitor Services

A Vigitor Center to proposed for Sice Cenyon as a part of the minimistrative building at a location near the existing mesons and will replace the existing Sice Masses and edulationstation building.

This building will provide elequate grace for oriestables and information exhibite on the rark stery; a lobby for general information service and the firstey of publications and cubibite of an orientation mature, such as maps and relief models; a room for the display of the exhibite designed to proceed the emeanticle of the park atory; and an assembly room abuse visitors may gather for masses take and crimation programs through the mode of totalides and movies designed to orient them and help toward greater enjoyment and appropriation of the park.

The Kion Gangon Visitor Center will also provide quace for the interpretive steff and adequate space for its research facilities, which collections, exhibit preparation and repair, photographic derivous, and the park library.

Additional inherpretive facilities are: the expfire suphitheater in the Expfire Around (50 persons) the concessioners recreation runs at lon [Added persons the concessioners recreation runs at lon [Added persons about 200, is available for a suc-ball hear interpretive illustrated talk each evening. Preposed area: "Visitor Center, complire circle and unvalue manimite at Laboration Creek area: and trailede exhibits at Three Creek area along taylor Creek.

The Visitor Center proposed for the Laferkin Greek Area will be smaller than the zion Green structure. It will be the hab of the interpretive program to be presented in the entire Kelob and west him Area of the pork. The families of this structure will be similed to that at Sion Garyon with emphasize upon the features displayed in the east and North Section of the park.

The majority of visitors to Zion National Park come in automobiles and for the most part enjoy its seezie besities while driving over park roads or hiking over short totals from parking areas along the roadside.

Information and interpretation of the area for these visitors will be provided in attractive wayside exhibits. These orbibits will be of the reofed-over type in which fairly samplete presentation of the site story can be presented. In addition to the existing ambibit at the Temple of Singuaya the others proposed are for:

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- in sectors were of the ends of the Place Suppose.
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Visited two is gotted by many and other entitle and through publications such as booked, backs leading states and maps. The use of bodeslides and savies, and take removings is giving like two datas at visites contain, but the resident confirm applications. The use of the provided takes at visites contain, but placed to be an important matter. But provided for the locations of provided and others are placed.

It complete the part step, energies and in majorities in the majorities in the majorities in the majorities and self-complete with a self-complete and majorities. The complete will be placed and an admittance of majorities and admittance of majorities a

on the park's netural or human history.

Problems for Research Study:

In the Pield of Backson

- Make intended curvey of all formations especial in the Felch section of the Fark in order to develop a more complete qualifications.
- 2. Make varaful analysis of the volcamine exposed in the Kalob Section to determine their evaporation, use extralation to the geologic story of folding, families, uplift externion of the sedimentary bedy they cover. Oxyetal napple; of all volcamic syldence is meeded.
- 3. Make detailed survey sad a collection of the formile found in the various formations. Diseason fortists have been found on a fork of North Creek at this site or pass possibly bottom site may be developed as an important exhibit in place.
- in the Chinic and Shinamurey formation in order to obtain a complete study collection of these species for appropriate description and publication.
- 5. A study of the asphibism and reptile tracks in the Mossdopi formation is mosded.
- 6. Study is needed to determine the origin and the mode of transpertution and method of deposition of the Naraho Sandatore.

In the Field of Relown

The major problems period a to the midlife of the pork and the relationship of flore to femme or vice verse.

- 1. Make therough study of Someran Highern with emphasis on possibility of restocking.
- 2. Make range surveys of the forage smallable and determine the corrying especity in the prominent deer ranges of the Park and determine the amount of use and whether or not, and where programmed management measures are needed.
- 3. Determine predator populations especially of soughr, coyota and beloats and their relationship to the existing deer and other named populations.

- i. Nake careful parvey for evidence of percupine over-populations and the amount of damage to forest species to determine whether or not menacuent measures are needed.
- 5. Carry out regular improvious of the visitor use areas, compground, longe and residential ureas for evidence of overpopulations of redenta, of the disease spreading variety, at that measurery early old may be taken to safeguard visitors.
- 6. Hake anveys or pariodic inspections for evidence of the buildup of inset insections in the area and determine best methods
 of ountryly for example, the pine beetle, tent enterpillars and
 box elder buys and other insects detrimental to the flore and
 indirectly to the visitor's enjoyment.
- ?. Hake a stroy and adjuvey of the excite plant species and determine boot control methods.
- 8. Make a study of the enclogical feature that deterrine types, variety; and distribution of floral and feature apostos found in the different swettons of the park.

A progress of publications of the results of research occumplicisants has been initiated and will be continued in order to provide the visitor with accurate data on the park.

3. Conservation and Protection

- a. Protection of isople, Park Peasures, and Baildings and Pacilities all park exployees have the responsibility for the protection sad semperation of the satire park area, sategorating the public, promoting beneficial use of the part and the protection of all developments. However, the primary responsibility for those detion falls on the park ranges organization. Park responsible to the park ranges organization. Park responsible consists orthography in performing vigitor services, such as sunaging comparests and giving information. This phase of their work, at a the specific aim of securing vigitor comparation in protection of visitors, is substitute to the immediate jet of protection of visitors, fortunes and developments. Protection activities start at the specific activities start
- Tork upo in an unfaciliar environment and need guidence to keep them from engaging in becomdone activities such as ricky sometain climbing, venturesses bikes, exposure to extreme of temperature, and useafor driving. The pure enforce traffic regulations, and attended seturists, investigate solidants, give againtance to the injured, search for hest persons and make recommendate required. Inspections are made of jurk food headling cetablishments, housing facilities, utilities and make recomplishments, housing facilities, utilities and make recomplishments.
- c. Protecting Park Features: Control of parmittee graning and prevention of cattle trespose is a major problem in Zien Meticual Park. Early detection and control of forest fires in the broken and rough terrain of the part is difficult. Vandalism, peaching of wild-life or plant life, timber trespose, detection and treatment of forest discusse or inject infectations, are all exceptes of the problems for which protection is required. This phase of the work may involve pelice and court artiss for violations.
- provided for cil developments in the park through policing them, saking accessory inspections and patrols, and organizing, directing and training fire brigades of the park and concessioner. Problems of theft, vandalize, and missue may occur in this field.
- e. Related Protection Responsibilities: A number of protection problems are possible to Zion Reviewal Perk. Inholdings are factor: effecting land oversee and other nonconferming activities. Over anticipantic trustime prospectors puse a continuing threat. Conmercial trusting on the Zion-Rt. Cornel Bightsy and through the tenuel constitutor a begard to visitor care and is estriminal to part use.

functions is Jon National Park. They provide for increases in the necessary personnel, equipment and facilities for meeting protection responsibilities concurrent with the opening of Taylor Greek-Large La Greek sections of the park to public ups and for meeting the Dicting protection responsibilities. Adequate protection taker and the increase required to meet 1966 problems require several added personnel and additional assectat positions.

nents proper d for the pack, the provision of two reager stations one on the Flob Flatons and the other near V. 5. 91 at Taylor Creek. Charters for fire lookouts and a suitable lookout structure are planned at I ve Point. Mederalsation of the existing entrance stations will be required to baddle a visitation of 750,000 people stately.

vitel part of the program. Afreless and helicopter rental are considered advertageous in certain patrol, recome, and forest fire situations. The of such mechanical side will reduce the artual mappener mechanical materials. Additions to the laund telephone and FM radio system will be sequired.

Training programs for all supervisors have been conducted during the part two years in lies Bational fork and will be continued. Instructors and discussion leaders of local error training consists are namedly the park administration, and supervisors she have attended higher level dervice training courses. The success of the system depends on the instructors knowledge and his teaching chility. The program will be strongthemed by training leaders to develop a larger number of field sen.

Exphasis is given to specialised training required in protection work. Law enforcement training schools in the park are conducted by F.B.I. species. Regions obtain professional training in
fire eastern and law enforcement from attendance at federal, state,
and country agency sponsored comparative schools. Regional and Servicewide conservation and protection conferences are attended each year
by selected ranger appearations. Her methods of forest fire control
und structural fire or strol are presented, as well as refresher training. Forest pathologists and entomologists discuss threatening forest
discusses and forest posts, so thods of Lientifying epidesic conditions,
recommended control practices and the value of the observations made
by men in the field in their day to day work cotivities. Trainees in
turn present the information obtained at these meetings to area exployees concerned. Public relations and protection problems are
covered by archanges of ideas at such meetings. Such training is

carried through to reach all public context employees and those assigned other types of protection work. Adequate funds for training side and for the expense incurred from sending protection personnel to specialized training schools are required.

An informed, conflored and poless ranger staff handles the public intelligently, belofully and convincedly and when homemary applies restraints without ever-agregativeness. The park ranger is the first and often the only person in the uniform of the finitenal Park Service to contact millions of Americans who visit the parks. He is the representative of the park separatement at these partial earning all the purple with equal courteay and intervent without showing favorities to any individual or group. Park rengary have established an earlich reputation as public servents and every affort should be made to establishe a high plantard of messic in the staff of each park in erder that there may be a continuation of the traition.

settivity in Manufacture Park, Courtes in a select respectively. managed on a "Playet come, first perred" bests, and comper specials. over sites are everted by programing two. Repulse importions are made of senttery conditions. The South Congruend is used by people every month in the year. July and insust are the mericie of elimen tue. Normally Gratto Compgrand is opened to the public Heserial ing and shored the west fallowing Labor by. However, under the long range plan the area will be used for plantaking only. Group covoing during the summer everylow periods will continue at the drotto. Ascrer patrole make her personal contacts with compare which presents visitor ecompation is the care and maintenance of care sites and semitary femilities. The work side to visitor enderivant and results in maintenance sort was Additional presental rangers will be needed in view of the planted expandion and dispersal of camping femilities and we enticipated increase in visitatien.

Porcettre There is a wide distribution and variety of plant life in Tion National Park and the vagetative cover types consist of 6,340 acres grassland, 4,000 acres asgebrach, 19,639 acres chapatral, 45,444 acres woodland, and 40,500 ecres forest. In addition there are 24,371 acres of barren land in the park. The depart-shrab, pypay-forest, and conference-forest groups lie in bread, indefinitely beyond belts that roughly correspond to altitude. The convent decidence woodland trees stand along stream courses at different altitudes but grow best along perennial streams at relative lot altitudes. In bread views below 4,500 feet, sage-brack and blackbrack are the most proper cuose; at altitudes above

6,500, ponderous pine, sorub rak, and aspen stand out; on intermediate slope; jumiper and sagerrush seem to be everywhere; and in the valleys cottonwoods attract chief attention. The types overlap as much as 2,000 feet in altitude, and brankland in a characteristic part of the cover in forested areas. All vegetation is equaltial to the natural scene and forest protection is a ranger staff responsibility.

Fire Control: Whee prevention and control constitute the major portion of the park foregery program. All sessions firecontrol paramol are financed out of the Perestay and Fire Control budget. These sem augment the park ranger force as fire looksute. smoke-chapter of members of suppression course. The basic fire seatral shaff is provided. Merever, park enlargment, proposed construc-The feasibility of a lookout post in the vicinity of Dueth Paint for protection of the sestern area of the part will be studied. Impresses proposed for fire embred will provide the additional equipment method for polyne of new erest spend to public use union the MISSICS to progress end the saided south incurred for leading commercial communications fortlities, both radio and telephone. The amount provided for fire control activities was increased in F.T. 1953, and such egain be increased, based on record advantes in the calary seed; and right costs of all supplemental services. In the past 20 year paries there have been a total of 116 first in don Merienal Park and adjacent protection sume. Of this total 102 fires conserved or part leads. Losson from forest firms have been held to a stining and considering the encurt of insocratible terrain and the incidence of fires on this type of land the succeed is good. Every effort will be made to continue the work at its present standard.

Tree Maintenance: Cottonwood, while, age and becolder are the important shade tree avector. Host of these trees in the developed areas and along the campus road require pruning, and every designed or over-matter disappears trees shad be reserved.

Occasionally, broadloaved trees requiring invigation develop chlorosic which can be corrected by tree means, and a master of trees in the campus are treated for the disease each year.

Porest Pest Control: The vegetation in Zion Canyon is subject to attack by goveral species of defoliations. The mest inspectant of those posts is the Great Basin tent catespillar which attacks all broad leafed plants but particularly the French cotton-wood. Control measures have been effective. However, re-infostation common from untreated areas in the valley outside the park and amusal maintenance control measures will be a recurring activity.

in harmony with their environments is not simply a matter of "isting nature take its ocurse" while providing protection from direct outside influences. This principle is best demonstrated by the regid recovery of deer and spains of overgopulation in the Rice Caryon deer hard chaing the past if years. Prior to this period the early pothlare had practically enterednated the deer in the easyon and draghinally reduced their numbers on the adjacest plateum so that the parter balance was being maintenant by the received but of the Richesteal Durvey killed a number of lions in and adjacent to the part. The deer made a rapid recovery and overstocking was evident as early as 1917. Translag and transport methods falled to solve the problem and in 1913 the reduction by shorting program was instituted which has resulted in heaping the deer in the august in check. Extension of the Apol has ting manuscraft deer population at a satisfactory status que, Canting program at the habited and names against a satisfactory status que, Canting property of the habited and names practices is the maintenance of the surrest deer population at a satisfactory status que, Canting property of the habited and names against preserved of the preserved of

At one time the Seneral bighorn sheep was native to the srea. They are not positively known to exist at the present time. Studies should be used relative to their denise and chance of survival if reintreduced.

Apotto plants have become a perious problem in lion Companlating the chief offenders are respict thistin, said bur, morning glary, have grass, for tail, most clover, tessrick, and silenthus. Some of these species are so persistent as to prevent native vegetation from becoming respicitlished in large areas.

who will make the necessary studies and help the administration in solution of the problems posed.

specimentally 69,000 across of land in Mion Matienal Park here been erricully ereded or are badly depleted becames of unmatural erosion and prior misuse. The beginning of the devastation dates from about 1862 iden the first settlement was made in Mion Canyon and continued until 1919 when the park was established. However, in the area formerly Mion Monagent, dry farming on private lands and graning of livestock, name in traspase, and other adverse use is heavy even to this day. In many areas, the granic cover was de troyed and creature of the top soil became progressively severe. To date make control has been carried on in Mion Canyon and a little on the him country. A ten-year program conting an estimated 4100,000 is required to check the erosion and bring back regetation to some problem

areas. The work should be vigorously pursued so that all structures and conditions for natural healing are completed by 1966.

4. Olympiach on System

Sufficient reads while to provided in them Matteral Pork to take motoriate to a 75 regardative apportment of interesting and distinguished features. The system will to designed to discoverage speed, but promote safety and enjoyment. An integral part of intiging new roads and rebailding and polecating old case will be the provision of informational and interpretive algas, nursers, and exhibits, and of the necessary turnosts, parking spaces, and creatests to make pair and satisfactory use of the park.

The existing read, inside 1, is a Exemple road leading from the South Entrance of the part to the Bast Entrance. It browness very difficult terrain and whilipms two boundle, one of them more than a mile in length. Helintenance coats are high, but the road can be classed as one of the most spectacular in the country. We produce to relabilitate the read to make it safer and loss expensive is maintain. It was not constructed for madern traffic being only a two inside these beneath the surface. Fraining is nearly a factor for for introduce. The Mt. Capual Photosis bern such to paintain to aby and safely only the striking around to encountries the resident visitor to aby and safely only the striking souncy what he provided. Heaventhroughout all constant of re-purfacing, painting interpretive markors, signs and entities throughout its longth.

The floor of the Velley Road, Route 2, is ginilar to Route 1 in its very poor condition, except that it does not be everse such difficult terrain. It is the making of access to lies Gaspun which contains probabilist features of the part. Reconstruction of the route to consist of re-entracing, constructing additional drainego and retaining walls, realignment of a short section to get it out of a seaso, and adding the necessary turnouts, interpretive signs and exhibits to enable the visitor to get the maximum enjoyment in treversing the route.

The reads system will be supplemented by a trail system which will enable visitors to spend time in the wildercass areas of the park. Surfaced trails are very important to the proper and adequate visitor use of gion National Park as near features will always be insoconable by read. The steep sandy terrain is very discouraging to travel without stabilization. Unpurfaced trails

are expensive and difficult to maintain in this region.

From the floor of then Company a system of trails has been constructed to allow the vigitor to make or ride to the riv of the varyon where is can get as entirely different perspective of the area features. The west him and the last him Trails are the major trails to the top. Both trails are in very poor condition due to last of maintenance, deterioration during the very page and flood demands. Recommitmention of the west him Trail is under way.

Host important are the close-in short trails which lead from convenient pasking erous to places or features of special interest. They consist of the Harrows Trail, Hosping Sock Frail, Emprald Pools and the Eign Overlook Trail. These short trails require paring over deep and due to their expressly heavy use.

reads proposed under CLECUS to me the read necessary to stable vigitors to see and sales representative features and points of interest is the Toleb arone section of the part. The proposed road is also justified by the fact that the limited game while lies Canyon dictates the spread of vigitor use to other areas. The proposed read will less from Lighway 7. at Taylor Creak through Timber Greek to Lawarkin Speek to the site of the proposed compercand. It will be at less test and fitted into the Lawares can the Lole Platent and its transmitus spectacular factors. We believe it will be one of the optobarding scenic roads is sherica.

A detected ghort spur leading from the cross-county road will be constructed to Death Point, one of the most scenic viewpoints on the high rim of the Kolch section.

Short trails will load from perking arous and terr-outs to mable visitors to make below to the Soleb Heteral Bridge, into the Finger Cappens, and to other features of the area. The improvement of the Laverkin hiver Cappen trail to Boar Trap Campen and to the Hep Valley Mytics are the major trail projects.

Rion Campon Section: A short road will be constructed in Oak Crock Campon to emplie visitors to view this seemic section. It will be a combinmentam of the present Utility Area Road.

5. Utility Systems

Tion National Park has never found it possible to keep abreast of the need for sever and matersystems. Systems when built seemed adequate, but hardly had construction been completed when the unprecedented increase in visitation reased them to be overloaded.

Commercial power is available in Zion Campan and only recently have we been able to contract for telephone and radio services from a convergial firm.

The sever system at the South Entrance will have to be enlarged. The space Art univerground disposal of efficient is limited and a pumping station to a new disposal bed will have to be considered. A new power system will be required to serve the finiter Center and residence, schoolsied to reasin in New Center. The propaged at the Grette Comparable is depoted and inadequate. It is propaged for replacement. The system at the Temple of Singurers has entirely failed. The system at the Newsgenters site nousings extly of composing and has been consistent by Public Sepith Service officients. Plans are to carry all the serings from the South Entrance area to the contral disposal plant.

In the Kolet Section at least three graters will have to be constructed to purve the proposed developments. Small systems to corve the areas at Taylor Greek, Three Greeks, and a scandant larger system will be required for the companyed, Visitor Center, and developments at Largerica Greek.

Water systems will be communicated to serve Taylor Greek, Three Forks and to La Ventin Greek areas. The East Entraces, and the Temple of Singulars in old Zion will also require now enter systems.

In him Surject it will be macagary to relocate the overhead power and telephone lines in the lower part of the Canyon. They now amorough on the features of the canyon and specil the views. They will be relocated on the east side of the Virgin River on lower ground and behind the serven of decidence trees along the river. As the power company and the concessions r have franchises hased on the present location, it is likely that the Service will have to stand part of the expense of moving.

While power and telephone service will be available at Taylor Crock, it is rather unlikely that commercial power compenses

can be induced to construct lines to serve the LaTerkin Creek area developments. A power house and distribution system will have to be constructed there. Radio communication is planned for the whole holed Section, except at the west Entrance development at Taylor Creek and U.S. 91 Highway.

6. Administrative Pasilities

The present administrative offices of the superintendent and his staff are croaded into an old converted fars house. The building is not ther modern new fire registent. As it was never designed as an office building, ware is badly planted and lighting is poor. The building is too small and too old to be modernized.

A suitable administrative using planted for the Mon Campon Vigitor Center will previde suitable work space for the superintendent and his staff which conducts the business functions of managing this park and the monuncute serdinated from this office. Included are offices for the superintendest, anniatant superintendent, obtain ranger, park materialist, biologist, angistr, landscape architect, and flacel staff and equipment. It will also contain conference rooms and drafting rooms for technical exployees. It will be fire registant in construction and will contain fire proof vanite which will protect valuable government records.

A district administrative office will be constructed in conjunction with the sest (Tyler Greek) entrance. This will provide suitable office and work space for the Supervisory Ranger, park rangers and ranger naturalists and maintenance separvisor and good to the Kolob Section of the park.

New entrance stations wil. be provided at the Bast, done is made west (Taylor Creek) Entrances to the park. The existing case are improperly designed to hendle modern traff a entering the park without waste of members.

A matable community building, approximately 2500 square feet is proposed for the Watchess Residential area east of the Virgin River. Year round operations require some place for group meetings and social affairs without the regular disturbance of the exployees regident in the Dormitory.

7. Employee Housing

One of the most critical problems in schieving the objectives of MISSION 66 for Zion National Pork is the one of housing for employers and their familian who are required to live in or mear the park. We have set up an objective of obtaining famile for staffing by 1966 as follows:

Hamagament art Protection Haintenaces she Rebabilitation Postlitating Personnel

22 23

Total

M 53

In addition to the 45 permanent employees MAP and MAR.

there is an added 8 sember permanent staff fininced by facilitating or reinbursuble funds. These are not shown on the staffing schedule or operating requirements. Total permanent employees proposed by 1962 is 63. There are in addition 23 man years of seasonal employees.

to furnish housing for all employees ambject to the rotation policy. In addition, there is the requirement to furnish assessmentations to the seasonal namegement and protection personnel. Fifteen man years in this estagosy means I employees at all nonthis, or sixty employees at a language.

Fresent Housing: There are at present 20 residences, eight of thick are substandard and one acceptable regidence is scheduled to be resed in the realignment of the Lion Cappan Road. A dorsitory for man acceptable 20 Mar halo employees.

heried hereiner

Lon Parguna Por Cornendo L Conf.

Hime new registences to replace hime substandard wite and the one to be rased. Five will be 2 befrom and four will be 3 befrom units. Your 2-story apartment houses with carports, each to contain 4 two bedroom units, making 16 family units.

Zion Campon: For Managal Staff:

It is proposed to return to seasonal amployees use the 5 substandard houses now occupied by permanent employees. These houses, plus the dered tory and an apartment house containing 10 one bedroom family units, rust be made to do for seasonal employees needed in Zion Canyon. A three family efficiency unit for seasonal employees is to be constructed at the East Entrance Station.

Keleb Section: For Persenent Staff:

(marters for three permanent employees will be constructed at the mest Entrance (Taylor Creek). This will consist of one 3 bedroom residence and a deplex family dwelling of two 2 bedroom units.

One doplex regidence of two 2 bedroom units will be constructed at the Laferkin Greek area for the employees required to maintain, operate, and protect this area. At Laferkin Greek there will be a Vigitor Center, restaurant, pichic-compgrounds and necessary power, water and sever systems. One doplex residence containing two 2 bedroom units is proposed for the Firepit Emoll area on top of the pictoms.

Kolob Soution: For Seasonal Shaff:

an efficiency building of the motel type is planned for six seasonal employees at Taylor Greek. The se units should be suitable for full housekeeping.

Catter no Recent talls (Long

				Facility (Milto	
ersananta:					
	Svitable Residence		11	11	
The state of the s	Wesidences:				
	Can Canyon Taylor Creek	9 1	26	1.5	
	Duplex Residences				
	Pirepit ignil Perior Greek Leforkin Greek	1			
	Apartment Houses				
	Zion Caryon			16	
	l'otals		28	il) Smploye	98

Housing Recapitulation:

		Structures	Femily Units
Second.			
Redetings	Donattory (Lion Conyon) One-bedroom Manidances	*	**
	(Lion Ganyon)	8	8
	3-family Efficiency Unit (Rest Entrance)	1	3
	(10 cms-bedroom units)	1	10
	(Taylor Greek)	and the same of th	Andrew September 1
		12	17 7 mail 7
	Rooms and Donaltory Space		20 Hale Call
	Total for His desponsi		17 Employees

The housing existing and proposed will provide for is personned exployees and if the seasonal exployees. Such this program approximately 25% of the personnel exployees, 25% of the 1887 seasonal exployees and 100% of the 25% seasonal exployees will have to secure quarters outside the park, we doubt vary much that this ratio of 3 indice and 1 outside can be existed and seaso of the small villages and communicate within commuting distances of the park have regionness or rooms for rant.

The plan is to construct the additional houses for Sien Gasyon cast of the Virgin River which may beet be referred to as the Watchman Regidential Area.

C. Maintenance

equipment and the skilled overhead to carry on heavy malaborance on reads and tradis and utilities for None, Coder Broaks, Pipe Spring, and Capitol Foof. Some maintenance work will be performed by contrast themselver the experimently permits, but unfortunately that may not be practical. In my located in a very sparably settled part of the west. It is 300 miles to a locality where contractors headquarter, and cor operations are normally not large unough to move equipment this distance for a small job without prohibitive doct. Let all county organizations are not engipped to offer my raisef. The State Highway Department is usually not interested because their operations are spread ever great distances.

We plan to keep the organization and equipment to maintain our our reads and trails.

The same situation as pertains to reads and trails is generally tree with respect to the nationalmos of buildings and utilities. We plan for an organization to maintain and operate the following familities:

To buildings with a valuation in excess of 3 million dellars

I water systems with sore than 75,000 lineal fort of pipe

7 sower agratume with more than 25,000 lines fort of line

5 empgrounds with a total especity of 300 cars

3 pictic grounds to accomposite 75 cars

to ecolors stations

200 miles of boundary fence

In addition many structures, so bridges, tunnels, complire circles, parking overlooks and hundreds of signs, tables, fireplaces, et cetera must be maintained.

9. HOUSEAL TERMINATES

(Filed in Flame and Projecte Control Section)

No. Land and Maker Publish

Shower are a testal of 10,060 mercus of likelings in Zion [Skiloval Pack, belongs to 10 orders. It is accommany to obtain the land to permit commission of reads and other devalpments for public use. The estimated year of sequinities is placed at \$800,000.

A ville recorder; is ablanced to approve to appropriate and include the section of the contract and include the section of the proposed interpretative and included the section of the proposed interpretative and two sections are the sections. The development in a feetile to the section of th

It is recomment to obtain the section outside into parts for a source of acceptance for the Sant Source of acceptance. It is now recommend to the section of acceptance, and the section of the part, will be recommended for produces and author communicative plants to the Sant Source for the parts and author communicative plants to the Sant Source for the approximation of public section stations, residences and authorized acceptance of the section.

L'orndary study of the part as anlarged by the addition of Then National Measured will be given high prizedly. Proliminary study indicates that since adjustments are desirable to add some small parcels of lard that will be recessary for protection of natural seems values.

of the form alien law, I the screet is sensel by the State of the by for which we are negotiable; sequentiates by enclares. The belance is privately emped, and will be purchased from the curvers. A complicating factor is that many of the curvers also on: land out-side the benefities. Their total original constitute an economical test. Such case will require exactal benefities.

All the supplementations and the supplementation of the supplementat

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