

RECREATION USE PLANGeneral

The development of recreational resources in relation to a pumped storage project is limited in comparison to a conventional hydroelectric facility due to the relatively large daily fluctuations of the reservoir surfaces.

In addition to water level fluctuations, the naturally turbid nature of the Broad River water detracts from the project's total recreational potential. Due to the daily exchange of water from Parr Reservoir into the Monticello impoundment, it is anticipated that the waters of much of Monticello Reservoir will not be clear. For this reason, the applicant proposes to dam off the northernmost portion of the impoundment, thereby creating a separate impoundment for use as a fishing and boating area and associated recreational development as shown on Exhibit R-3. SCE&G will fully develop the recreational potential of the project insofar as it is consistent with the operation of the Parr Hydroelectric Project and with public safety. Also, the South Carolina Electric and Gas Company will be responsible for the construction, operation and maintenance of all currently planned and future recreational facilities.

Consistent with the requirements of the State of South Carolina, the applicant will not advertise or encourage the public use of the major portion of the Monticello Reservoir until the reservoir is filled and letters of approval and appropriate permits have been received from the South Carolina Pollution

Control Authority and State Health Department regarding the extent of permissible public use (see letters from these agencies at the end of Exhibit R). The applicant will proceed with acquisition of land and construction of facilities of the Monticello Reservoir that do not involve water contact. All underwater construction involving potential recreational use will be completed prior to filling.

Monticello Reservoir will experience a daily water level fluctuation of approximately four and one-half feet and will allow limited recreational use. The impoundment will provide cooling water for operation of the Virgil C. Summer Nuclear Station, to be constructed on the south shore of Monticello Reservoir.

In conjunction with the construction of the Virgil C. Summer Nuclear Station, a visitors' center and construction observation point will be located on the South shoreline of Monticello Reservoir. Exhibits describing the construction and operation of the Fairfield Pumped Storage Facility will be included in this visitors' center, and the observation point will also permit visitors to observe construction activity of the Fairfield Pumped Storage Facility.

Most areas of Parr Reservoir are not considered suitable for recreational use due to an anticipated daily water level fluctuation of ten feet. The fluctuation in Parr Reservoir will probably result in the reduction of the biological carrying capacity of the reservoir which would limit its development as a potential fishery resource. In addition, the relatively broad shoals that will be exposed during low water will curtail boating potential. At present, the only recreational use of the existing Parr Reservoir

includes fishing and waterfowl hunting.

Recreational facilities that will be developed for the Parr Hydroelectric Project are illustrated on Exhibit R-3.

During development of this exhibit, SCE&G consulted with the Federal Power Commission and other state and federal agencies in order to prepare a plan of recreational development that would integrate the suggestions of all concerned. Other agencies contacted were as follows:

South Carolina Wildlife Resources Department
Columbia, South Carolina

South Carolina Department of Parks, Recreation
and Tourism
Columbia, South Carolina

South Carolina Pollution Control Authority
Columbia, South Carolina

United States Bureau of Outdoor Recreation
Atlanta, Georgia

South Carolina State Health Department
Columbia, South Carolina

United States Forest Service
Columbia, South Carolina

The initial recreational developments will include the damming off of a fishing area in the northernmost portion of the Monticello impoundment including boat launching facilities, a scenic overlook along the east shore of the main body of the Monticello impoundment, boat launching facilities in the Parr Reservoir, provisions for possible future boat launching facilities in the main body of the Monticello impoundment (see South Carolina Pollution Control Authority letter dated June 6, 1972 at the end of Exhibit R), and provisions for possible primitive camping areas on islands created in the main body of the Monticello impoundment.

Pit-type sanitary facilities will be provided at all boat launching facilities and the scenic overlook. The sanitary facilities will be constructed and maintained in compliance with all applicable requirements of the South Carolina Pollution Control Authority and the South Carolina State Department of Health.

Approximately 1200 acres will be set aside for recreation including the initial developments and adequate sites for possible future developments. All of the land required for initial and possible future recreational developments will be acquired by SCE&G prior to January, 1977. The facilities to be developed are discussed in detail in later paragraphs.

All recreational facilities will be attractively maintained. Shrubs and brush will be trimmed back from the edge of hard-surfaced access and parking areas. Landscaping of exposed areas will be accomplished where appropriate. Periodic collections of trash will be made, and toilet facilities will be maintained at regular intervals. Waste disposal will be accomplished in accordance with applicable South Carolina Pollution Control Authority Standards. SCE&G will be responsible for operation and maintenance of the recreational facilities.

Appropriate directional signs to the recreational facilities will be installed along local, state, and county roads. Identification signs will be located at the entrance to each public access area, indicating type and location of facilities together with special use and occupancy rules as appropriate. Prior to the opening of a recreational facility, the public will be informed by notice in local newspapers.

Estimates of public use of the recreational facilities have been based on criteria developed by and data obtained from the

South Carolina Department of Parks, Recreation and Tourism.

Estimate of Use

SCE&G has been advised through the South Carolina Department of Parks, Recreation and Tourism that the Fairfield Project has an annual recreational use potential of 10,000 visitor-days beginning in 1974, increasing at a rate of 3% per year for 15 years, with an ultimate use of 100,000 visitor-days per year assuming maximum development of facilities.

Recreational Requirement Review

The recreational requirements associated with the project will be reviewed one year following issuance of the project license and every odd year thereafter. The review will be reported in accordance with FPC Form 80.

The review will be in consultation with the South Carolina Department of Parks, Recreation and Tourism, the South Carolina Wildlife Department, the U. S. Bureau of Outdoor Recreation, the U. S. Forestry Service, the South Carolina Pollution Control Authority, and the South Carolina State Board of Health. The object of the review will be to determine the need for and location of additional facilities based on the use of the existing facilities. Such additional facilities may include, but will not be limited to, expansion and/or addition of boat landings, picnic areas, and camping sites. Sufficient areas will be acquired prior to 1977 to provide for possible future additions and expansion of facilities to meet recreational demands. SCE&G will be responsible for construction, operation, and maintenance of all recreational facilities currently planned and any additional facilities that

may be developed to satisfy increased recreational demand.

The initial facilities proposed by SCE&G will be observed each year during the maximum recreational use months of June, July, and August for determining use and projecting the need for additional facilities. Detailed descriptions of the initial facilities are as follows:

Fishing Area

The fishing area to be developed in the upper end of Monticello Reservoir will comprise approximately 300 acres of water. Work will be started on the fishing area dam in 1973 and be completed in 1975; water rise in this area will start in 1975 and be completed in May, 1976. Since the fishing area will be impounded by constructing an earthfill dam across Monticello Reservoir, only slight water fluctuations will occur. This fishing area will draw water from runoff and Monticello Reservoir as required, and is expected to be clearer than Monticello and Parr Reservoirs.

The proposed fishing area will be cleared as indicated in Exhibit R-4 and will be stocked with bream and largemouth bass in cooperation with the South Carolina Wildlife Resources Department. An effort will be made to keep out other species of fish considered less desirable than sport fishes. This fishing area will be rather unique in the region, providing a different and qualitatively better habitat for sport fishes. Present plans exclude gasoline powered engines in this area.

Boat Launching Facilities

Two boat launching facilities will be developed and completed by January 1977. One will be located in the Parr Reservoir area

on the southeast side of Newberry County Road No. 28 where it crosses Hellers Creek. Another will be located in the upper fishing area. All underwater work for a third boat landing on the East shore of the Monticello Reservoir will be completed prior to filling the reservoir; however, parking facilities and public access will not be provided pending authorization of its use by the South Carolina Pollution Control Authority.

A hard-surfaced road will provide access to each of the completed boat landing areas, each of which will encompass about two acres. Hard-surfaced parking areas for five cars with connected trailers will be provided, except in the upper fishing lake, where there will be ten spaces. The boat ramps will consist of 12' - wide concrete (or equivalent) pavement. Anchored trash disposal containers will be placed throughout the area, and pit-type sanitary facilities will be provided. A typical layout of the proposed boat launching facilities is shown on Exhibit R-1.

Islands

Current topographic surveys indicate that six islands will be formed as a result of the impoundment of Monticello Reservoir. All of these islands will remain uncleared and unimproved for possible future primitive campsites. Approximately 50 acres of land will be involved. SCE&G anticipates other islands being available in the upper reaches of the Parr Reservoir, and will locate and include these islands as part of the recreational area following completion of the topographic survey. All islands occurring in the Parr Reservoir will be dedicated to wildlife

preserves and primitive camping.

Overlook

The scenic overlook will be located on the east shoreline of Monticello Reservoir; the overlook will be completed by January 1974. The scenic overlook will provide an overall view of the Monticello Reservoir and surrounding area. An elevated covered platform with two benches and surrounding guard rails will be provided at the overlook, which will consist of a total area of about 30 acres. The immediate areas surrounding the platform will be cleared of underbrush and trees to permit better viewing. Ten picnic tables will be placed around the overlook platform and will be connected by gravelled walkways. A parking lot will be constructed to accomodate a minimum of 15 cars. Potable water and toilet facilities will be provided. Anchored trash disposal containers will be placed throughout the area. A typical layout of this development is presented on Exhibit R-2.

All pit-type toilet facilities will include a corrugated metal or plastic shelter approximately 4' x 8' with a partition dividing the facility. The shelter will include a fabricated metal toilet box with a hinged plastic seat. The shelter will be positioned on a reinforced concrete pad that will cover a concrete lined pit of dimensions approximately 4' x 8' x 6'. The reinforced concrete pad will be fitted to facilitate cleaning. These facilities will be constructed and maintained in accordance with all applicable requirements of the South Carolina Pollution Control Authority and the South Carolina State Board of Health.

Estimate of Cost

Estimates of cost for initial recreational development and maintenance are as follows:

Land - 1350 Ac. @ \$450/acre	\$607,500
Fishing Area Impoundment	325,000
Two (2) Initial Boat Launching Facilities	18,000
Overlook and Picnic Area	<u>32,000</u>
Total Cost of Initial Development	<u>\$982,500</u>
Annual Operating Cost of Initial Development	\$ 25,000

Public Safety

The public will be excluded from areas within the project due to the potential dangers. These areas will include, but are not limited to, 300-foot maximum approach distance to all points where intake or discharge structures exist on the Monticello impoundment shoreline that are part of the operation of Fairfield Pumped Storage Facility or the Virgil C. Summer Nuclear Station. Following the completion of the model studies at Alden Research Laboratories, additional areas may be excluded from public use to avoid the heated discharge from the Virgil C. Summer Nuclear Station. All restricted areas in Monticello Reservoir will be marked with can buoys bearing the standard inland waterways "No Boats Allowed" symbol. Also excluded from public use is the tailrace of the Fairfield Powerhouse, which will be marked by can buoys bearing the standard inland waterways "No Boats Allowed" symbol, and by signs on both ends of the Southern Railway Company trestle, facing Parr Reservoir. The area upstream of Parr Powerhouse is already marked with eleven buoys as described in SCE&G's September 15, 1971, letter to Mr. T. A. Phillips of the F.P.C.,

and eleven additional buoys will be added. All buoys will be made of the tough, hard plastic used in football helmets, with color an integral part. The buoys will each be anchored to two 250 pound concrete anchors by 50 feet of 7/16 inch galvanized guy wire. The Parr Dam and Bascule gates will be flood-lighted at dark, and the tailrace of Parr Powerhouse will be marked with warning signs. Appropriate warning signs and maps will be located at all company boat landings, and SCE&G will be responsible for maintenance of the signs. All warning signs will be readable from a distance of 1000 feet. These restricted and non-public areas are shown on Exhibit R-3. Re-evaluation of the restricted areas for public use will be made after the project is in operation and during the biennial review of the recreational needs of the area.

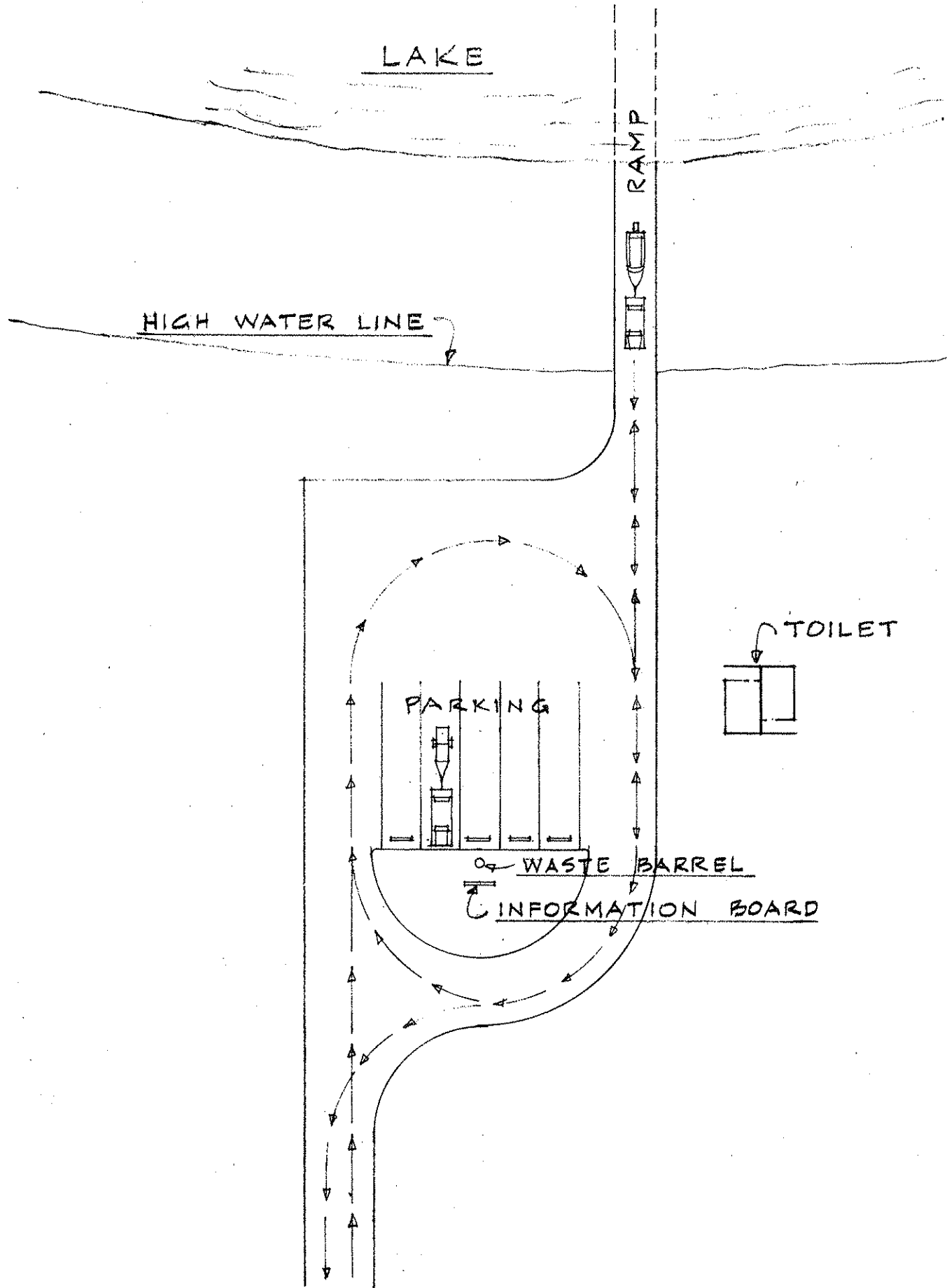
SCE&G does not intend to exercise any control for the purposes of public recreation over other lands adjoining this project boundary or other lands adjoining or adjacent to lands associated with this project.

The proposed project boundary, as shown on Exhibit K, will include lands acquired for recreational development as described in Exhibit R-3; other lands needed for the safe operation and maintenance of the project, but encompassed by nuclear exclusion zones superimposed on the Monticello impoundment as shown on Exhibits R-3 and K-8; and will otherwise extend to high ground a minimum of 25' horizontal distance from the high water elevations of Monticello Reservoir and Parr Reservoir. The project boundary line will be precisely defined upon completion of field surveys presently being conducted.

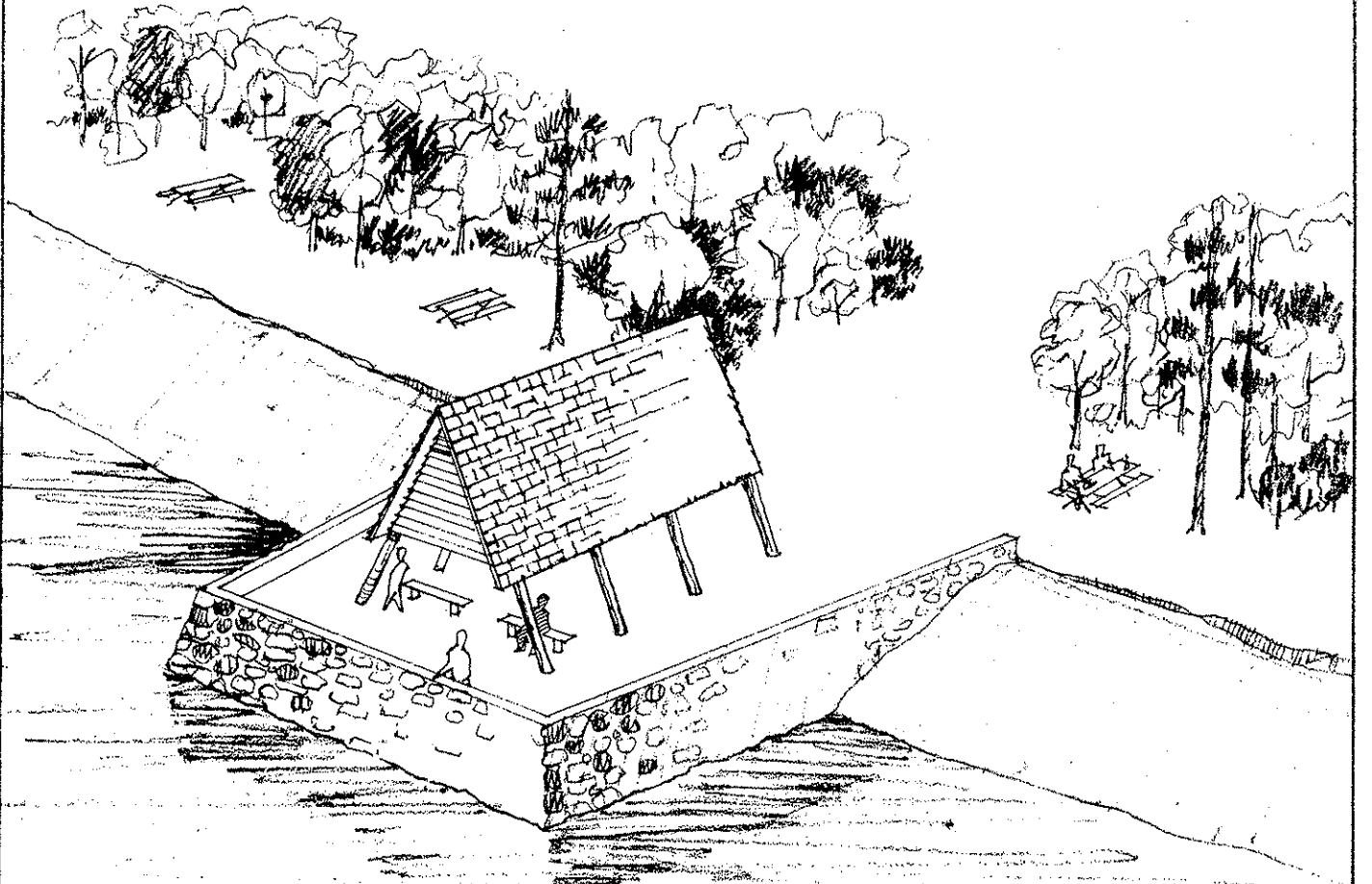
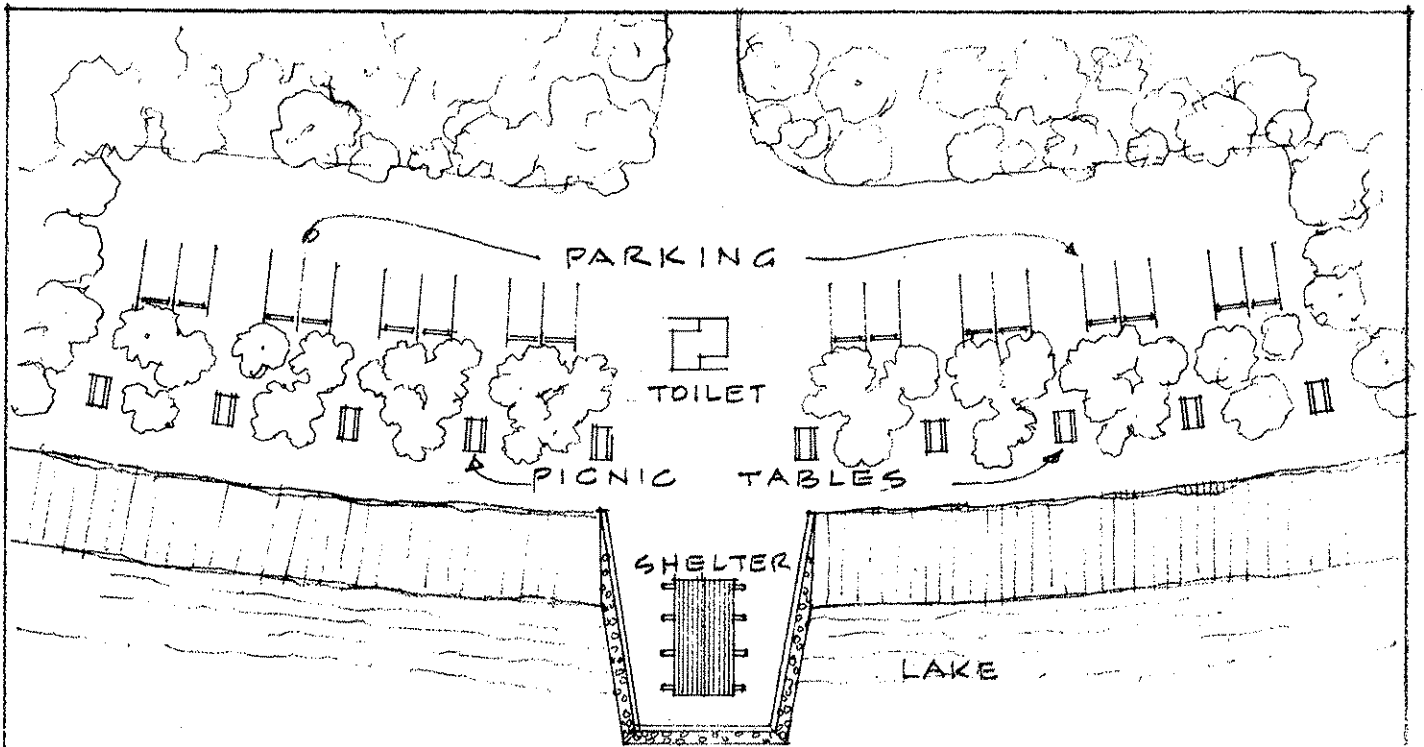
It is the opinion of SCE&G that the plans outlined for recreational development represent a reasonable utilization of land and natural resources in view of the limitations imposed by the operation of the project facilities. The facilities planned will be the first such recreational facilities in Fairfield County. SCE&G, in cooperation with appropriate state agencies, will continually review the use and demand for recreational facilities developed, and additional facilities will be constructed as required to serve the recreational needs of the people of South Carolina consistent with project requirements.

Included in Exhibit R are:

- R-1 Typical Boat Launching Facility
- R-2 Typical Overlook and Picnic Area
- R-3 Proposed Recreational Development
- R-4 Land Clearing Plan



TYPICAL BOAT LAUNCHING FACILITY - EXHIBIT R-1



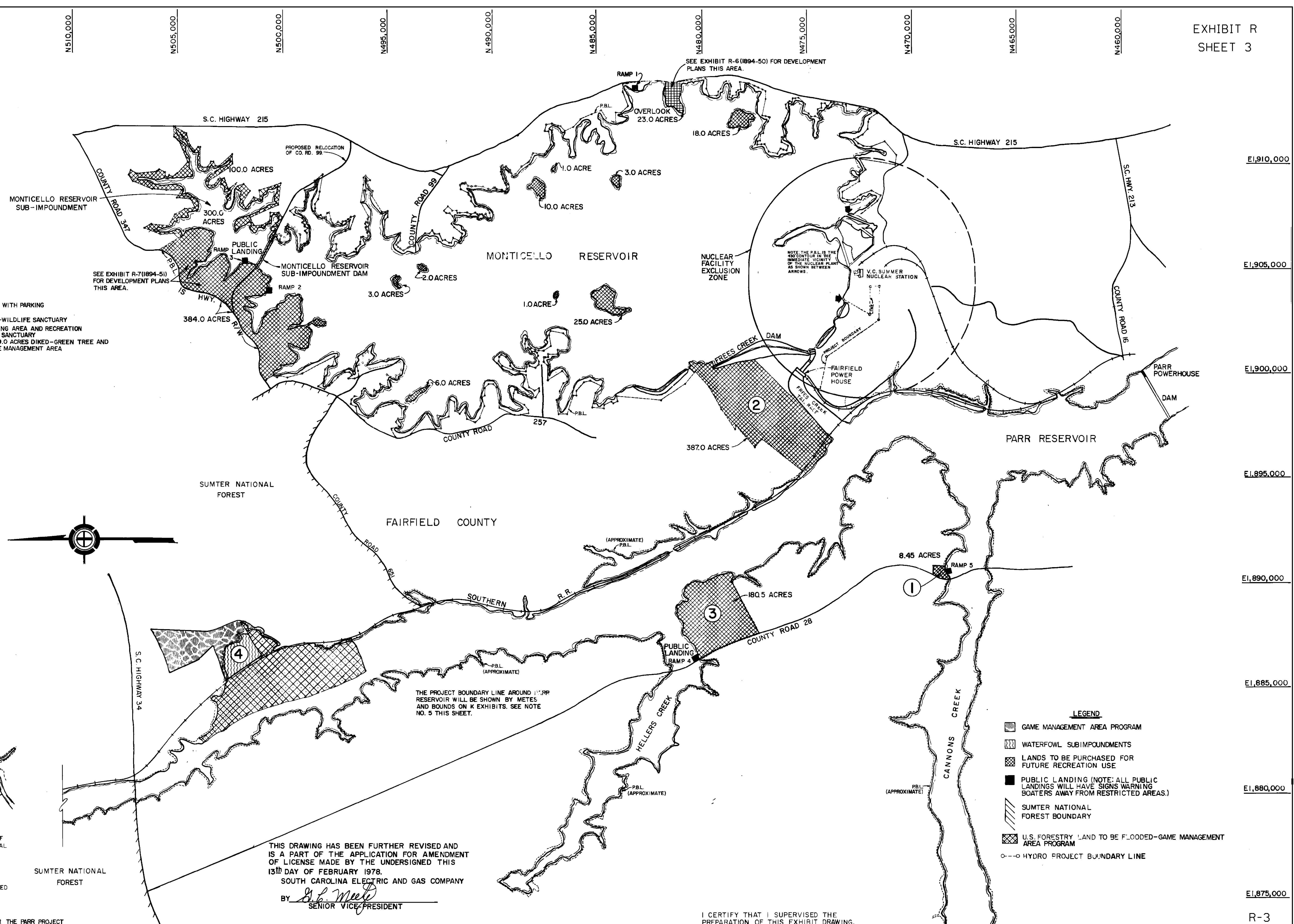
TYPICAL OVERLOOK AND PICNIC AREA - EXHIBIT R-2

SITE	ESTIMATED COST (OVERALL)
1	TO BE DETERMINED
2	TO BE DETERMINED
3	\$10,000 INITIALLY, TO BE DETERMINED BY BIENNIAL REVIEW
4	\$80,000
5	\$55,000

SITE	SCHEDULED COMPLETION DATES
1	UNDETERMINED, BY BIENNIAL REVIEW
2	UNDETERMINED, BY BIENNIAL REVIEW
3	BOAT RAMP, PARKING AREA FOR 25 CARS BY DECEMBER 1, 1977
4	DECEMBER 1, 1977
5	DECEMBER 1, 1977

- SITE DESCRIPTION**
- CANNON'S CREEK SITE 8.0 ACRES, FUTURE BOAT RAMP WITH PARKING AND RECREATION AREA
 - FUTURE RECREATION AREA 387.0 ACRES, PRESENT USE - WILDLIFE SANCTUARY
 - HELLER'S CREEK SITE 180.5 ACRES, BOAT RAMP, PARKING AREA AND RECREATION AREA, PRESENT USE FOR REMAINING AREA - WILDLIFE SANCTUARY
 - TERRIBLE CREEK WATERFOWL SUBIMPOUNDMENT - 49.0 ACRES DIKED - GREEN TREE AND CULTIVATED HABITAT - 565.55 ACRES BUFFER IN GAME MANAGEMENT AREA
 - SUBER CREEK WATERFOWL SUBIMPOUNDMENTS - 85.0 ACRES DIKED GREEN TREE HABITAT 15.0 ACRES DIKED CULTIVATED HABITAT 90.78 ACRES BUFFER IN GAME MANAGEMENT AREA

- NOTES:**
- PROJECT BOUNDARY LINE IS GENERALLY A MAXIMUM OF 200' FROM 425' & 266' CONTOUR EXCEPT IN RECREATIONAL AREAS OR DEEMED NECESSARY BY FIELD INSPECTION.
 - ALL LANDS WITHIN THE PROJECT BOUNDARY LINE ARE OWNED IN FEE SIMPLE BY SOUTH CAROLINA ELECTRIC AND GAS COMPANY, UNLESS OTHERWISE SHOWN.
 - ALL LAND FOR RECREATIONAL DEVELOPMENT IS INCLUDED IN PROJECT BOUNDARY.
 - FOR OVERVIEW OF PROJECT SEE EXHIBIT K-1 (1894-54).
 - DETAILED DESCRIPTION OF PROJECT BOUNDARY LINE FOR THE PARR PROJECT IS BEING SHOWN ON SHEETS K-2 THROUGH K-20 (1894-55 THRU 73), ARTICLE 48.
 - NO TREES ARE TO BE CUT ON AREAS INDICATED AS ISLANDS OR RECREATIONAL AREAS.
 - CO-ORDINATES SHOWN ARE BASED ON THE STATE GRID SYSTEM.
 - ELEVATIONS SHOWN CORRECTED ACCORDING TO RECENT SURVEY BASED ON U.S.C.B.G.S. (M.S.L.).
 - SOUTHERN R.R. R/W IS EXCLUDED FROM PROJECT, EXCEPT TO THE EXTENT OF FLOWAGE RIGHTS (SEE EXHIBIT "F").
 - SEE EXHIBITS R-4, R-5, R-6, R-7, R-8 AND R-9 FOR DETAILS CONCERNING MONTICELLO RESERVOIR RECREATION AREAS.
 - WARNING DEVICE DETAILS HAVE BEEN FILED WITH THE REGIONAL ENGINEER IN ACCORDANCE WITH ARTICLE 38 OF THE LICENSE.
 - THIS DRAWING SUPERSEDES EXHIBIT R-3 (1894-45), APPROVED AUGUST 28, 1974.
 - DATA THIS SHEET REQUIRED BY ARTICLE 44. SEE EXHIBITS R-6 AND R-7 (1894-50 AND 51). FOR DATA ON MONTICELLO RESERVOIR RECREATION AREAS (ARTICLE 45).
 - REV. 4/7/80 TO SHOW ADDITIONAL BOAT RAMPS



THIS DRAWING HAS BEEN FURTHER REVISED AND IS A PART OF THE APPLICATION FOR AMENDMENT OF LICENSE MADE BY THE UNDERSIGNED THIS 13TH DAY OF FEBRUARY 1978.
SOUTH CAROLINA ELECTRIC AND GAS COMPANY
BY *G. L. Meade*
SENIOR VICE-PRESIDENT

THIS DRAWING IS A PART OF THE APPLICATION FOR AMENDMENT OF LICENSE MADE BY THE UNDERSIGNED THIS 10TH DAY OF NOVEMBER 1977.
SOUTH CAROLINA ELECTRIC AND GAS COMPANY
BY *G. L. Meade*
SENIOR VICE-PRESIDENT

THIS DRAWING IS APPROVED AS CORRECTED, AS A PART OF THE AMENDED APPLICATION FOR A NEW LICENSE FOR PROJECT NO. 1894 MADE BY THE UNDERSIGNED THIS 17TH DAY OF JULY, 1972.
SOUTH CAROLINA ELECTRIC AND GAS COMPANY
BY *D. C. Sumner*
SENIOR VICE-PRESIDENT

I CERTIFY THAT I SUPERVISED THE PREPARATION OF THIS EXHIBIT DRAWING, AND THAT IT ACCURATELY SHOWS THE PRINCIPAL STRUCTURES AND APPURTENANT WORKS AS OBTAINED FROM THE RECORDS OF DESIGN AND CONSTRUCTION DRAWINGS IN THE SOUTH CAROLINA ELECTRIC AND GAS COMPANY FILES.
W. E. Moore
W. E. MOORE
MANAGER
HYDRO ENGINEERING

THIS DRAWING IS A PART OF THE AMENDED APPLICATION FOR A NEW LICENSE FOR PROJECT NO. 1894 MADE BY THE UNDERSIGNED THIS 22ND DAY OF FEBRUARY 1972.
SOUTH CAROLINA ELECTRIC AND GAS COMPANY
BY *D. C. Sumner*
SENIOR VICE-PRESIDENT

- LEGEND**
- GAME MANAGEMENT AREA PROGRAM
 - WATERFOWL SUBIMPOUNDMENTS
 - LANDS TO BE PURCHASED FOR FUTURE RECREATION USE
 - PUBLIC LANDING (NOTE: ALL PUBLIC LANDINGS WILL HAVE SIGNS WARNING BOATERS AWAY FROM RESTRICTED AREAS.)
 - SUMTER NATIONAL FOREST BOUNDARY
 - U.S. FORESTRY LAND TO BE FLOODED - GAME MANAGEMENT AREA PROGRAM
 - HYDRO PROJECT BOUNDARY LINE

PROPOSED RECREATIONAL DEVELOPMENT
EXHIBIT - R-3
PARR HYDROELECTRIC PROJECT NO. 1894
SOUTH CAROLINA ELECTRIC & GAS COMPANY

