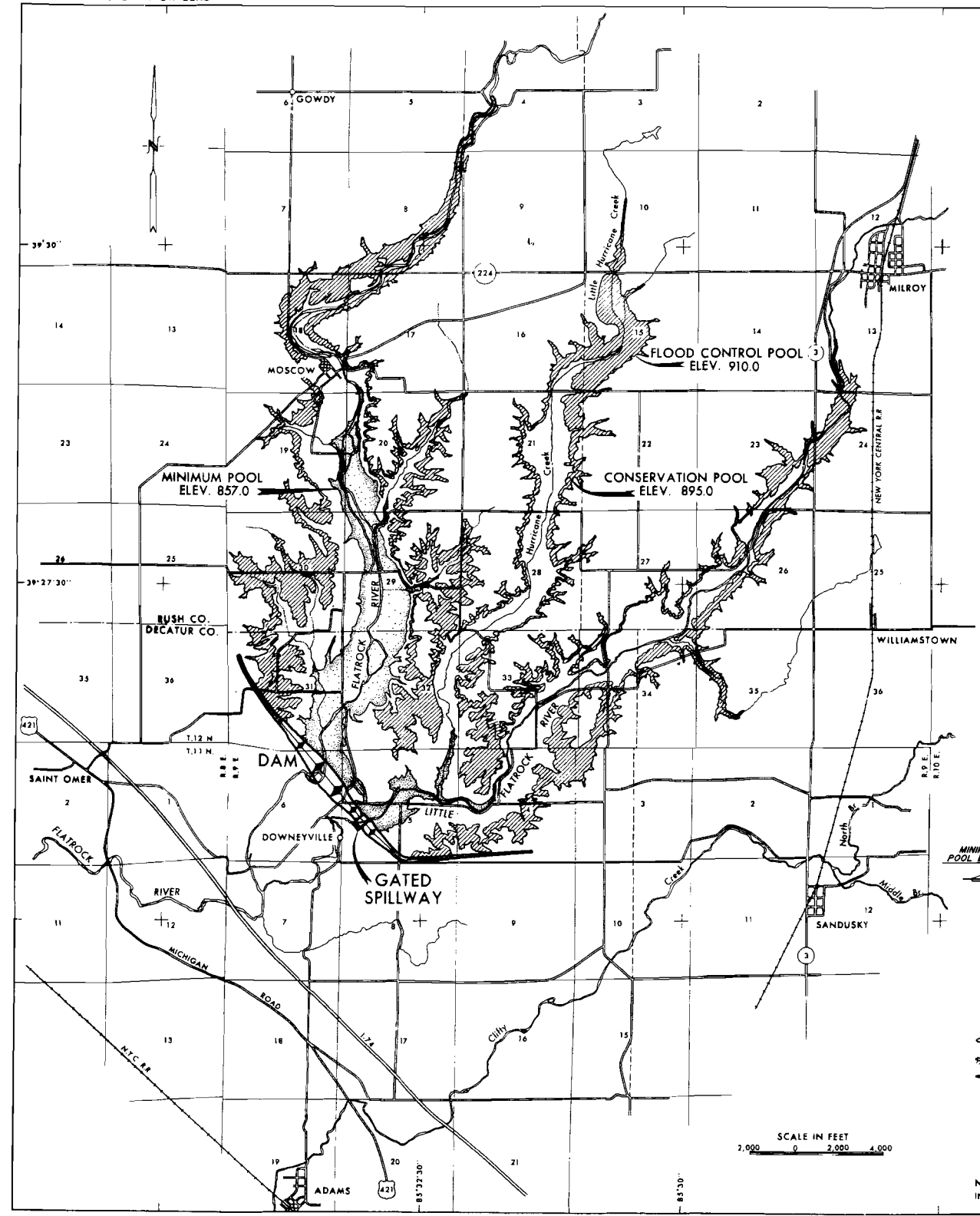
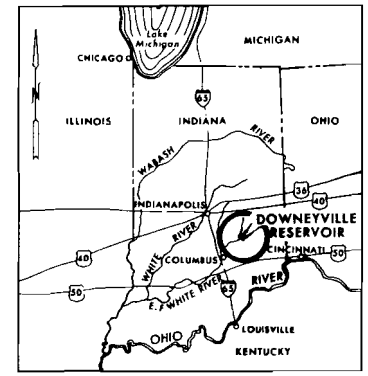
CORPS OF ENGINEERS

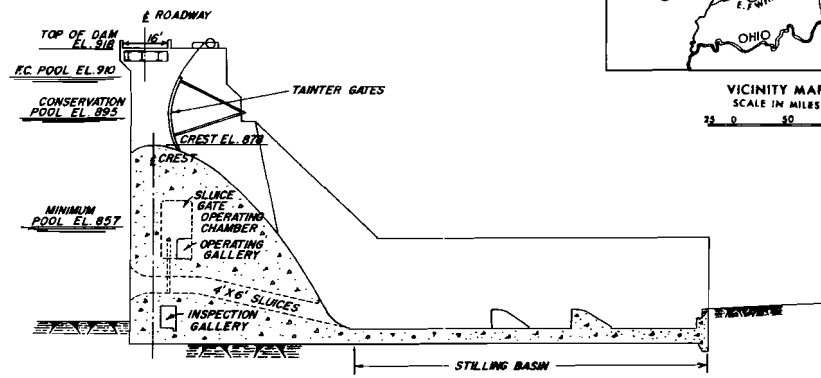
U. S. ARMY



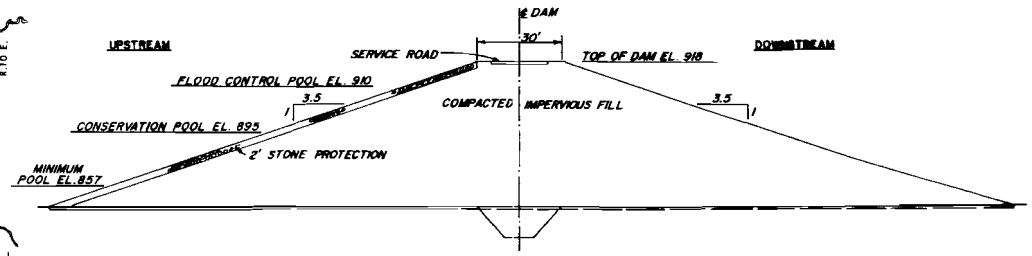
SCALE IN FEET
2,000 0 2,000 4,000



VICINITY MAP
SCALE IN MILES
25 0 50 100



SECTION OF SPILLWAY AND STILLING BASIN



TYPICAL SECTION EMBANKMENT

LEGEND

FLOOD CONTROL POOL - EL. 910.0

CONSERVATION POOL - EL. 895.0

MINIMUM POOL - EL. 857.0

NOTE:
INFORMATION IS TENTATIVE AND SUBJECT TO REVISION.

PLAN CONSIDERED
FOR
DOWNEYVILLE DAM AND RESERVOIR
FLATROCK RIVER
FOR
PUBLIC HEARING

LOUISVILLE DISTRICT DECEMBER 1965

PERTINENT DATA*

GENERAL:

The Downeyville Reservoir, as described by the drawings and project data in this brochure, is one of five reservoirs and one local protection project currently being given detailed consideration as elements of an over-all plan for development of the water resources in the Wabash River Basin. It does not represent a recommended proposal of the Corps of Engineers at this time. The other four reservoirs, for which separate hearings have been held or scheduled, are the Big Walnut Reservoir on Big Walnut Creek, and Big Blue Reservoir on Big Blue River, both in Indiana; and Helm Reservoir on Skillet Fork and Louisville Reservoir on Little Wabash River, both in Illinois. A hearing was also held at Marion, Indiana for the local flood protection project at that location. The public hearing being held on Downeyville Reservoir is to inform all concerned interests of the project being considered and to obtain information which will aid the District Engineer in formulating his recommendations on the project.

Following this hearing and the other hearings noted above, the District Engineer will complete a report covering some or all of the projects listed and will transmit it to the Division Engineer, Ohio River Division, U.S. Army Corps of Engineers, for review. Upon completion of this review, the Division Engineer will issue a public notice to interested parties advising them of the report findings and informing them that the report will be considered by the Board of Engineers for Rivers and Harbors, Washington, D.C. Interested parties will have an opportunity to present written views on the report for consideration by the Board. Following action by the Board, its report and the proposed report of the Chief of Engineers will be submitted to the Governors of Illinois and Indiana and to interested Federal agencies for comments. Upon receipt of these comments, the report of the Chief of Engineers, together with comments of State and Federal agencies, will be transmitted to the Bureau of the Budget for information concerning the relationship of the report to the program of the President. The report and accompanying papers will then be sent to Congress for legislative action.

After a project is authorized by the Congress, separate and subsequent Acts of Congress normally are required whereby funds are appropriated, in turn, for advanced engineering and design, and construction, before construction of the project actually begins.

The plan under consideration for the Downeyville Reservoir is a part of a comprehensive plan which is under continuing study for water and related land resources development of the entire Wabash River Basin. The Downeyville Reservoir would supplement previously constructed Corps reservoir projects and reservoirs presently under construction, authorized or recommended; authorized agricultural levees and urban protection projects; and projects of other Federal and non-Federal agencies. Further studies of the entire Wabash River Basin by all interested Federal and State agencies are expected to continue in order to formulate a comprehensive plan for the Wabash River to provide the best use, or combination of uses, of water and related land resources to meet all foreseeable short and long-term needs.

LOCATION:

The site of Downeyville Reservoir is in Rush and Decatur Counties, Indiana, on Flatrock River. The dam site under consideration is located approximately 1½ miles downstream from the Rush-Decatur County Line.

DRAINAGE AREA:

The Flatrock River Watershed covers an area of 539 square miles, of which 276 square miles are above the dam site.

RESERVOIR:

Storage Pool	Pool Elevation (Ft. M.S.L.)	Incremental Capacity (Acre-Feet)	Max. Area (Acres)	Length of Pool (Miles)
Flood Control	895-910	71,300	6,070	7.2
Conservation	857-895	75,500	3,650	6.0
Minimum	857	15,100	900	3.2
Total Storage		161,900		

DAM AND SPILLWAY:

The dam would be composed of a concrete section in the valley flanked by earth embankment on each abutment. The total length would be 18,000 feet and maximum height 118 feet with the top at elevation 918. The concrete section would include a concrete overflow spillway equipped with crest gates.

OUTLET WORKS:

Sluices through the concrete spillway section, with a slide gate near the upstream end of each, would provide regulation of normal outflow from the reservoir.

RELOCATIONS:

Relocations or alterations would be necessary for approximately 0.7 miles of State highways and 5 miles of county roads. About 18 miles of telephone line and 18 miles of power line would require alterations or relocations. Three cemeteries would require relocation.

LANDS:

Normal land acquisition for Downeyville Reservoir would total about 8,800 acres. Lands would be required for (1) the dam site, construction areas, and permanent structures, (2) the reservoir area to a level five feet above the flood control pool which would provide freeboard against adverse effects of wave action, saturation and bank erosion, and (3) a minimum of 300 feet horizontal from the flood control pool where the five-foot freeboard would not provide this area to insure public access to the reservoir and to provide sites for outdoor recreation along the shoreline.

Because of the favorable recreation potential of the project, however, the Bureau of Outdoor Recreation is considering the merits of acquisition of additional land for this purpose totalling about 2,200 acres above elevation 915. This land would be located from 2 to 5 miles upstream from the dam on several of the peninsulas formed by the reservoir. For mitigation of upland game habitat which would be flooded by the reservoir, acquisition of additional land in the approximate amount of 600 acres is under consideration by the Bureau of Sport Fisheries and Wildlife.

PROJECT PURPOSES AND BENEFITS:

The project plan considered would serve the purposes of flood control, water conservation, general recreation, and fish and wildlife recreation. Operation of the reservoir for flood control would reduce a flood having an average recurrence interval of 35 years to non-damaging stages at and immediately below the dam site. The reservoir would afford significant reductions in flood damages along downstream reaches of the Flatrock and White Rivers and some beneficial effects would also be realized in the Wabash River.

The project plan also provides for a substantial amount of conservation storage for water supply and stream flow augmentation, in the interest of water quality control. Project recreation would be enhanced by the proposed conservation storage and resulting higher pool levels during the summer months when water recreation demands are greatest. For recreation the project would include boat-launching ramps, parking areas, general recreation sites, and other related facilities necessary to assure adequate public access and to accommodate the increasing public needs for boating, picnicking, camping, etc. The project would provide increased opportunities for fishing as well as for preservation of the wildlife resources. The project plan has been formulated in coordination with State and Federal agencies to meet present and future needs. The State has indicated its intent to sponsor the provisions for conservation storage for water supply in accordance with the Water Supply Act of 1958 as amended, and to share in the provisions for general public recreation in accordance with the Federal Water Project Recreation Act of 1965.

ESTIMATED COST:

The cost of Downeyville Reservoir is estimated to be in the range of $25,000,000 to $30,000,000.

*Data are tentative and subject to revision.

PERTINENT DATA

AND

PLAN CONSIDERED

DOWNEYVILLE RESERVOIR

FLATROCK RIVER, INDIANA

FOR

PUBLIC HEARING

AT

GREENSBURG, INDIANA

15 DECEMBER 1965

U. S. ARMY ENGINEER DISTRICT
LOUISVILLE
CORPS OF ENGINEERS
P. O. BOX 59
LOUISVILLE, KENTUCKY