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## Urgent Building Needs

Utah Water Research Laboratory

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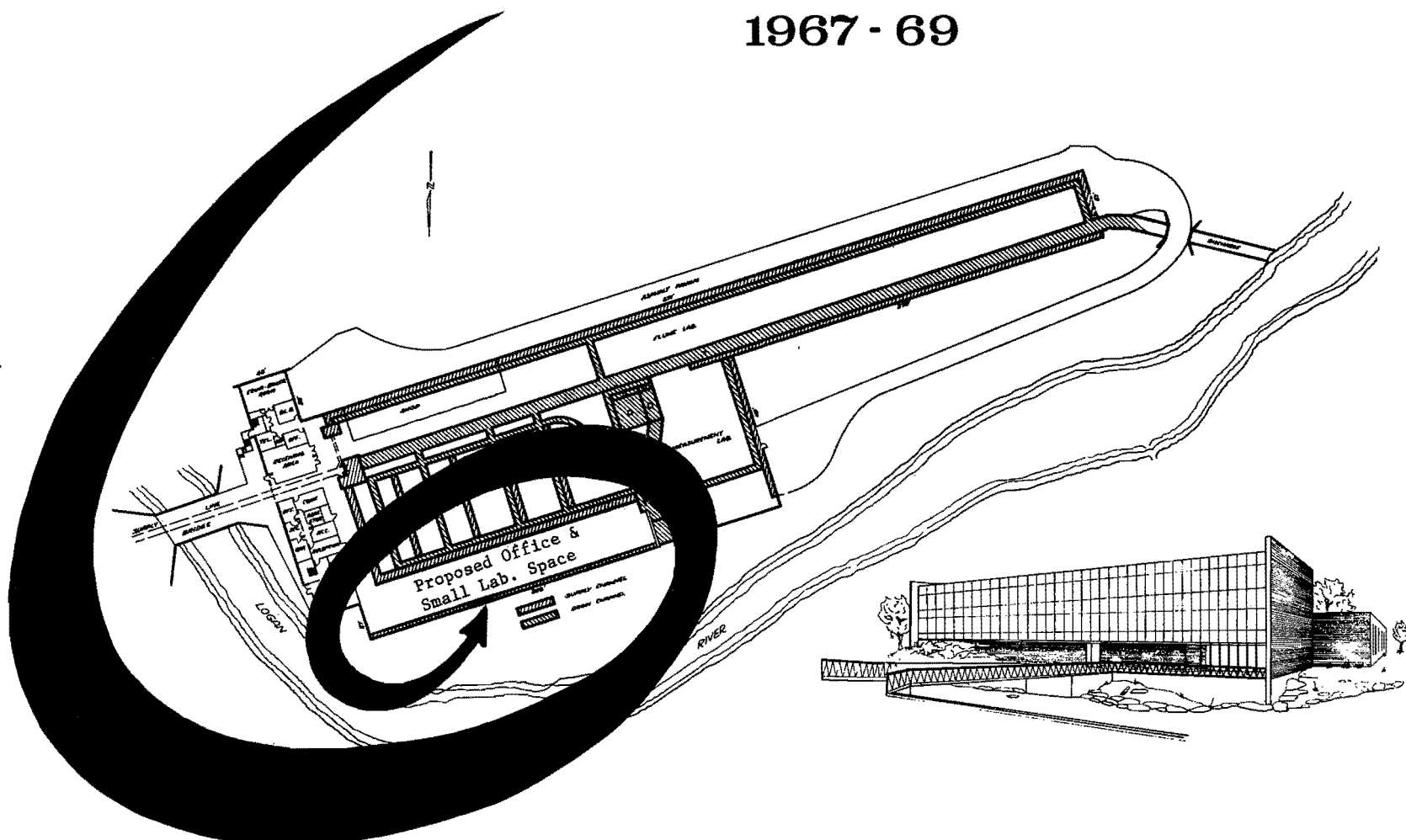
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# URGENT BUILDING NEEDS

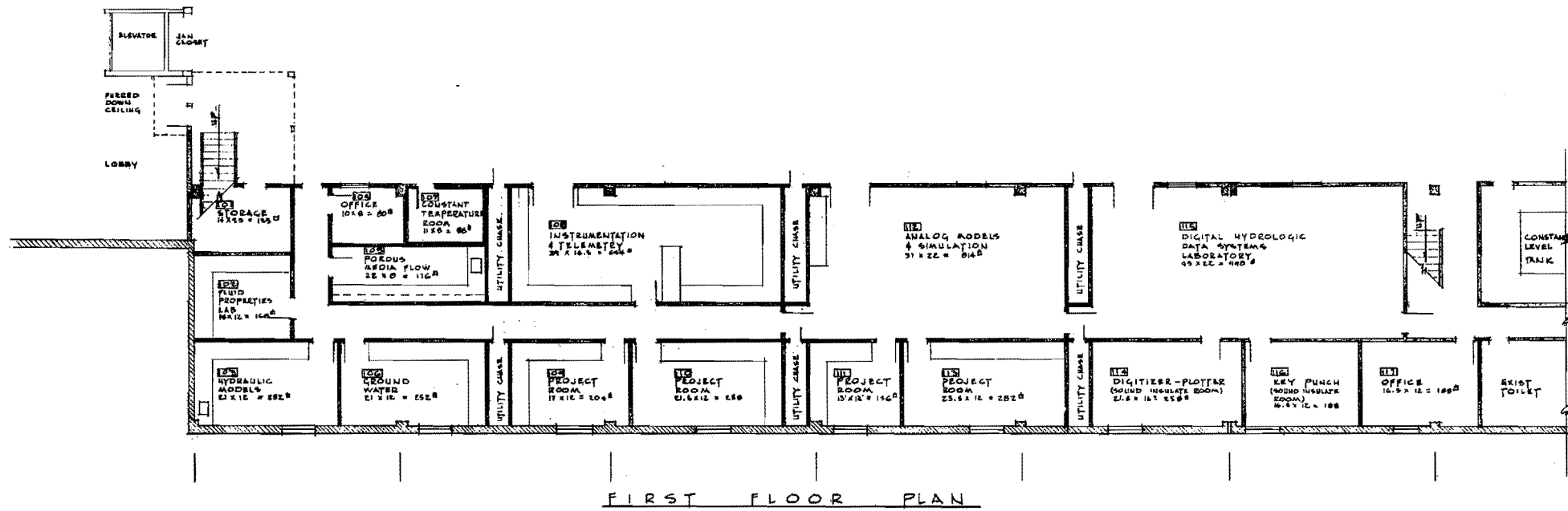
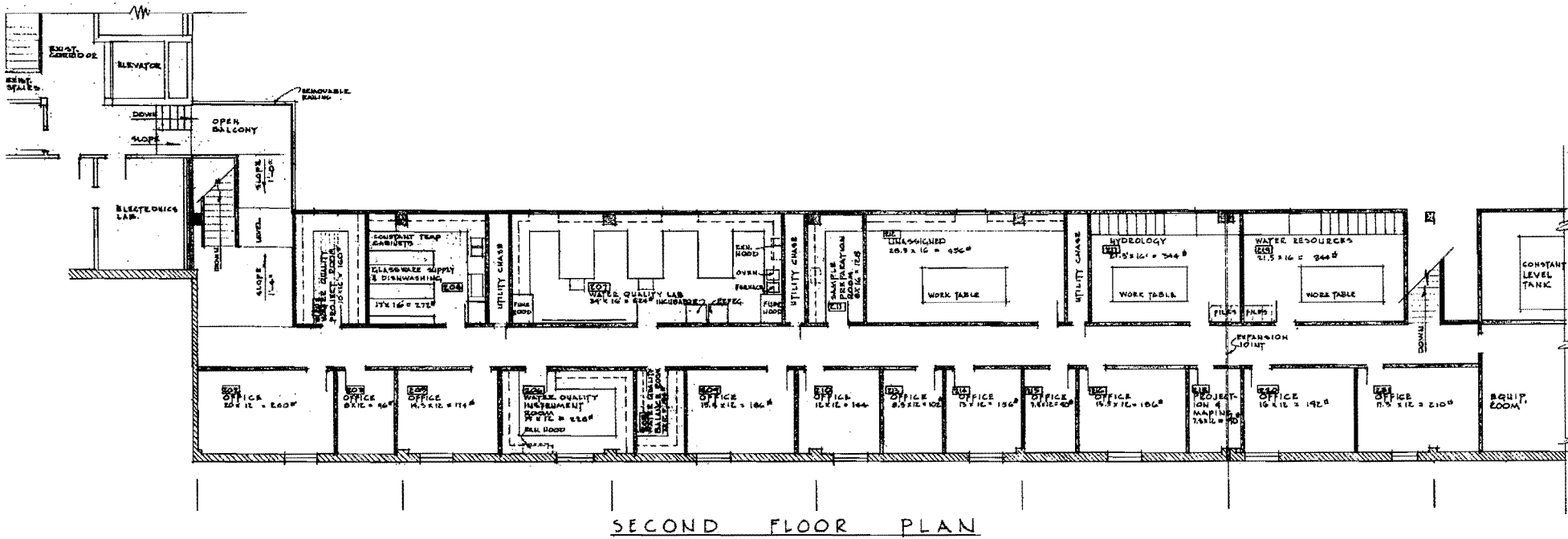
UTAH WATER RESEARCH LABORATORY

1967 - 69



UTAH STATE UNIVERSITY  
Logan, Utah

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PROPOSED OFFICES & LABS  
 UTAH WATER RESEARCH LABORATORY  
 UTAH STATE UNIVERSITY  
 KENNETH W. JONES A.I.A. ARCHITECT

Utah Water Research Laboratory  
PROPOSED OFFICE AND SMALL LABORATORY SPACE

Approximately 6,800 sq. ft. of the general laboratory space along the north side of the Utah Water Research Laboratory building will be remodeled to provide 9,650 net sq. ft. of space on two floors.

<u>Estimated Costs</u>		<u>Source of Funds</u>	
Construction	\$225,000	State Appropriations	\$160,000
Furnishings & Equipment	<u>75,000</u>	Federal Grants	<u>140,000</u>
	\$300,000		\$300,000

Action now by the Legislature can insure continued growth of the Utah Water Research Laboratory program with the associated benefits to the state of Utah and to the nation.

Since the Utah Water Research Laboratory was established, its research program has developed even faster than was anticipated. From the day the new building was first occupied all the offices and project rooms have been occupied—several by more than one professional staff member.

This crowded office condition was deliberately planned so as to make the most efficient use of the construction dollar and to avoid having some unused office space when the building was initially occupied. Provision was made in the area along the north side of the building for adding two floors of office and small laboratory space.

During the past year the Utah Water Research Laboratory staff has brought in 3 dollars for each dollar of state research support provided. Thus, Utah is the direct beneficiary of the extra research funds and receives, as well, many indirect benefits from the intellectual resources and practical abilities of the well known and highly competent staff.

If the Utah Water Research Laboratory program is to continue to grow and to bring increased benefits to the state of Utah, the time has now come to complete the office and small laboratories as planned.

The laboratory staff is preparing proposals to submit to federal agencies for facilities grants that will meet approximately half of the costs. Authorization of the expanded facilities at this time by the Legislature, along with appropriation of the state's portion of the costs, would greatly increase the likelihood of obtaining the federal monies to help enlarge the facilities.

Utah Water Research Laboratory  
SUMMARY OF FINANCIAL PROGRAM  
(all funds)  
1965-69

	1965-66	1966-67	Total 1965-69 Biennium	1967-68	1968-69	Total Biennium	1965-69 Grand Total
<u>Water Laboratory Administration</u> <u>State Appropriations</u>							
Estimated Revenue*	25,015	25,185	50,200	68,410	89,160	157,570	207,770
<u>Water Laboratory Research 3 1/3%</u> <u>Of Uniform School Fund</u>							
Estimated Revenue*	276,961	185,289	462,250	200,000	225,000	425,000	887,250
<u>Water Laboratory Grants and</u> <u>Contracts</u>							
Present Contracts	272,246	405,399	677,645	506,120	672,000	1,178,120	1,855,765
Proposals Submitted (pending)**	---	3,145	3,145	202,282	224,779	427,061	430,206
Proposals in Preparation	---	---	---	118,750	212,650	331,400	331,400
<b>TOTAL</b>	<b>574,222</b>	<b>619,018</b>	<b>1,193,240</b>	<b>1,095,652</b>	<b>1,423,589</b>	<b>2,519,151</b>	<b>3,712,391</b>

Proposed Construction of Additional  
Office & Small Lab Space

	1967-68
Federal	140,000
State	160,000
	<u>300,000</u>

\* The estimated expenses are determined by available receipts. If receipts are reduced, this means a reduction in the effort and growth of future research at the Utah Water Research Laboratory.

\*\* Based on 50% expectancy of success.

\*\*\* Based on 25% expectancy of success.

Prepared 2-10-67

Utah Water Research Laboratory  
PROGRESS SUMMARY

Personnel\*

	<u>July 1963</u>	<u>July 1964</u>	<u>July 1965</u>	<u>July 1966</u>	<u>Estimated 1967</u>	<u>Estimated 1968</u>
Professional	19	23	31	34	--	--
Service	4	10	15	18	--	--
Student & Part-time	4	29	51	75	--	--
Total	27	62	97	127	150	170

Expenditures

	<u>Fiscal 1963-64</u>	<u>Fiscal 1964-65</u>	<u>Fiscal 1965-66</u>	<u>Fiscal 1966-67</u>	<u>Estimated 1967-68</u>	<u>Estimated 1968-69</u>
Water Lab Admin. (State appropriations)	14,255	28,035	25,015	25,185	68,410	89,160
Water Lab Research** (State USF)	39,309	69,596	221,672	135,289	145,000	170,000
Grants & Contracts	71,118	64,401	272,246	408,544	827,152	1,109,429
Total	124,682	162,032	518,933	569,018	1,040,562	1,368,589

Active Projects

	<u>July 1963</u>	<u>July 1964</u>	<u>July 1965</u>	<u>July 1966</u>	<u>Estimated 1967</u>	<u>Estimated 1968</u>
State Supported (USF)	3	13	15	19	21	23
Grants & Contracts	2	15	14	25	33	40
Total	5	28	29	44	54	63

\* Total number of full and part-time employees

\*\* Funds carried over into next fiscal year are not included.

The following is a summary of the specific needs for enlarged facilities at the Utah Water Research Laboratory:

1. Professional Staff Offices

Several staff members who hold joint appointments with academic departments are already housed on the campus with their department rather than being near their research facilities. The last professional staff member to be hired had to be officed in the engineering building (in space usually occupied by graduate students) because of the crowded condition at the Utah Water Research Laboratory. Proposals already written and submitted would, if granted, require office space to house several more permanent staff members.

2. Atmospheric Water Resources Project

Some of the temporary and part-time staff of this major United States Bureau of Reclamation project have already been moved into the old house adjacent to the wind tunnel facility. While this provides adequate housing for the project at the time, this solution must be viewed as temporary. As the use of the newly completed wind tunnel increases and other research is initiated by the Mechanical Engineering Department, the old house will have to be vacated by the UWRL Atmospheric Water Resources personnel.

3. Project Rooms and Graduate Student Work Space

As additional projects are developed, protected space must be available for the experimental equipment and for work area and desk space for the graduate students and part-time employees associated with the projects.

4. Water Quality and Water Pollution Research

This extremely important activity of the UWRL has grown and will continue to grow rapidly. Already the present lab facilities are too small and construction has been started on open work benches located in the general laboratory area. This open and dusty area is a poor, but necessary, substitute for the clean protected space necessary in this kind of work. Additional facilities are especially needed in this area of the laboratory.



#### 5. Computation and Data Processing Systems

The Utah Water Research Laboratory is carrying on important pioneering work in analog computer applications in water resources research and in specialized digital data processing. At present the computers and instruments are housed in the general laboratory. The dust and moisture in the area are extremely bad for these kinds of delicate machines. Enclosed air conditioned and quiet space for this expensive equipment is an urgent necessity.

#### 6. Instrumentation Development

Additional space for instrumentation and telemetry development is needed for many present and anticipated projects.

#### 7. Ground Water

This important area of water resources research needs its own facilities for present and anticipated projects.

#### 8. Water Resources Planning

Adequate work areas for this continuing program of the laboratory is urgently needed.

#### 9. Controlled Environment Room

Some experimental work on projects and some testing of new instruments must be done in a controlled environment. Such a facility is not presently available at UWRL.

#### 10. Fluid Properties and Sedimentation

A clean protected area is needed near the general laboratory to house equipment and provide work area associated with fluid mechanics research in fluid properties and sediment transport.