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Design

Summer 1987

U.S. Department of the Interior
National Park Service
and
National Recreation and Park
Association

Received

SEP 30 1987

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Design

A publication of the Park Practice Program

The Park Practice Program is a cooperative effort of the National Park Service and the National Recreation and Park Association.

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The Park Practice Program includes: *Trends*, a quarterly publication on topics of general interest in park and recreation management and programming; *Grist*, a quarterly publication on practical solutions to everyday problems in park and recreation operations including energy conservation, cost reduction, safety, maintenance, and designs for small structures; *Design*, a quarterly compendium of plans for park and recreation structures which demonstrate quality design and intelligent use of materials.

Membership in the Park Practice Program includes a subscription to all three publications and a library of back issues arranged in binders with indices, and all publications for the remainder of the calendar year.

The initial membership fee is \$105; annual renewal is \$45. A separate subscription to *Design* is \$70 initially, and \$18 upon renewal. Subscription applications and fees, and membership inquiries should be sent *only* to: National Recreation and Park Association, 3101 Park Center Drive, Alexandria, VA 22302, telephone (703) 820-4940.

The information presented in any of the publications of the Park Practice Program does not reflect an endorsement by the agencies sponsoring the program or by the editors.

Articles, suggestions, ideas and comments are invited and should be sent to the Park Practice Program, U.S. Department of the Interior, National Park Service, P.O. Box 37127, Washington, D.C. 20013-7127, telephone: (202) 343-7067.

Dear Readers:

This Summer 1987 issue of *DESIGN* features four award-winning structures from the U.S. Army Corps of Engineers. The awards were part of the Chief of Engineers Design and Environmental Awards Program which is intended to recognize excellence in the design of, or environmental achievement related to, recently completed structures or area developments by the Corps of Engineers field operating activities and their professional design contract firms. The program is further intended to provide an incentive

for design and environmental professionals to develop new projects which will exhibit excellence in functions, economy, resource conservation, aesthetics and creativity while being in harmony with the environment.

All civil works, military programs, foreign and civilian agencies projects are eligible for entry in the program, regardless of the agency or customer for whom they were built. Projects are eligible for entry in more than one major category.

Managing Editor

This chart indicates the proper places to insert new design sheets in your *DESIGN* binder.

<u>Behind Index No.</u>	<u>Insert New Sheet Index No.</u>	<u>Backed by Index No.</u>
R-5023	R-5024	R-5025
A-1940	A-1941	A-1942
A-1942	A-1943	A-1944
B-3897	B-3898	B-3899
B-3899	B-3900	B-3901
R-5025	R-5026	R-5027
R-5027	R-5028	R-5029

All plans contained in *Design* are presented as guidelines and suggestions, not as blueprints for construction. Before building from any plan, be sure to consult federal, state and local safety and building codes. We particularly recommend your checking building plans for compliance with the National Fire Protection Association's — NFPA No. 101, The Life Safety Code, of 1976.

Also, to assure barrier-free design that permits access for all people, check your plans for com-

pliance with the American National Standards Institute's ANSI A117.1. *American National Standard Specifications for Making Buildings and Facilities Accessible to, and Usable by, the Physically Handicapped.*

When submitting new materials for *Design*: We'd like a black and white glossy photograph showing your structure. The photo should be of good quality and in sharp focus. For best reproduction, we like to receive 8" x 10" photos, but smaller ones can be used if their quality is good.

Lighthouse

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The Coquille River Lighthouse, built in 1896 by the Federal government and now leased to Oregon state as part of Bullard's Beach State Park, was recently renovated by the U.S. Army Corps of Engineers. The lighthouse, which is listed in the National Register of Historic Places, had been heavily damaged by vandals over the past few years. With the state sharing equally in the cost, the restoration included work on the roof and stairways, repairs to windows, concrete work, minor landscaping and painting.

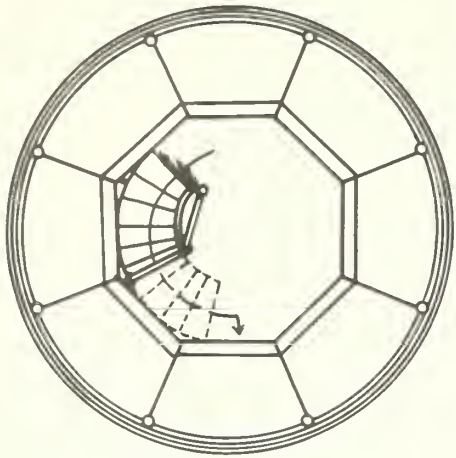
The popular tourist attraction helped guide vessels into the Coquille River until 1939 when it was replaced by an automatic light. The lighthouse is the focal point of all jetty and ocean activities in the area.

The lighthouse received an Award of Merit in the Chief of Engineers Design and Environmental Awards Program. This program is intended to recognize excellence in the design of, or environmental achievement related to, recently completed structures or area developments by the Corps of Engineers field operating activities and their professional design contract firms.

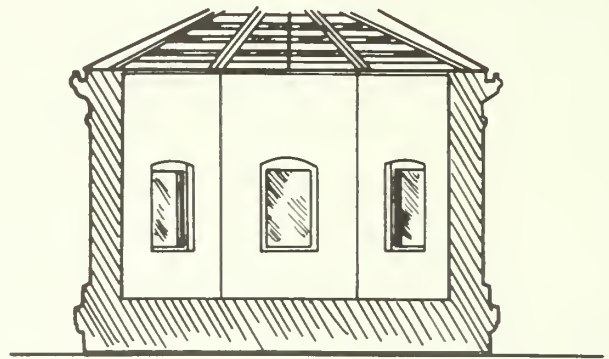


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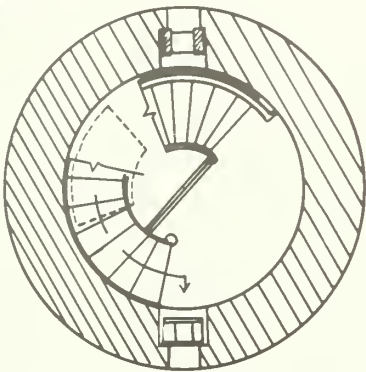
Lighthouse		Contributed by US Army Corps of Eng
Index R-5024	Summer 1987	
	Control N-1711-R	



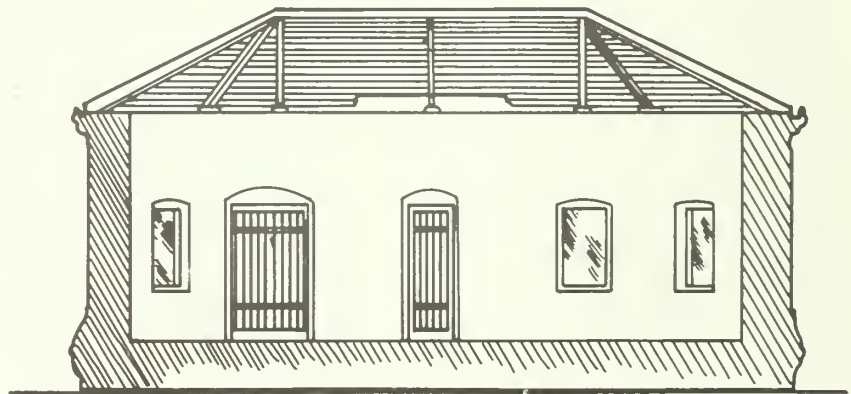
Plan Top Platform



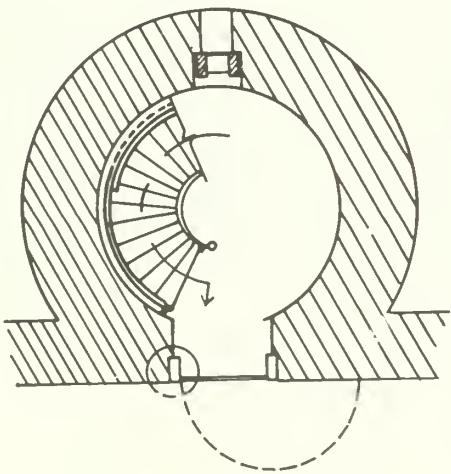
Transverse Section



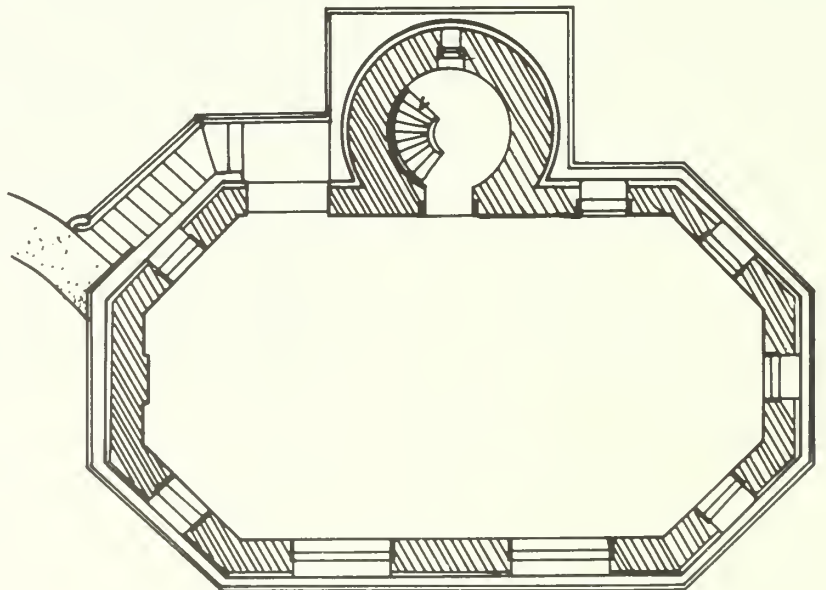
Plan Landing



Longitudinal Section



Plan First Floor



First Floor Plan

Ranger Station

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The St. Paul District Corps of Engineers designed this ranger station which is located at Cross Lake, Crow Wing County, Minnesota. The building is occupied only during the summer months and there was no need for plumbing. Special consideration was given to providing a clear line of sight for incoming traffic plus a central location for the ranger to operate inside the building.

Further, the station was to be close to the entrance and exit roads, have a public phone that could be used when the station

was closed and have areas for prospective campers to wait.

The station is located on top of a small hill. The close trees were not harmed from foundation excavations because an expanded edge slab was all that was necessary. The roof form was chosen for its horizontal lines and low profile.

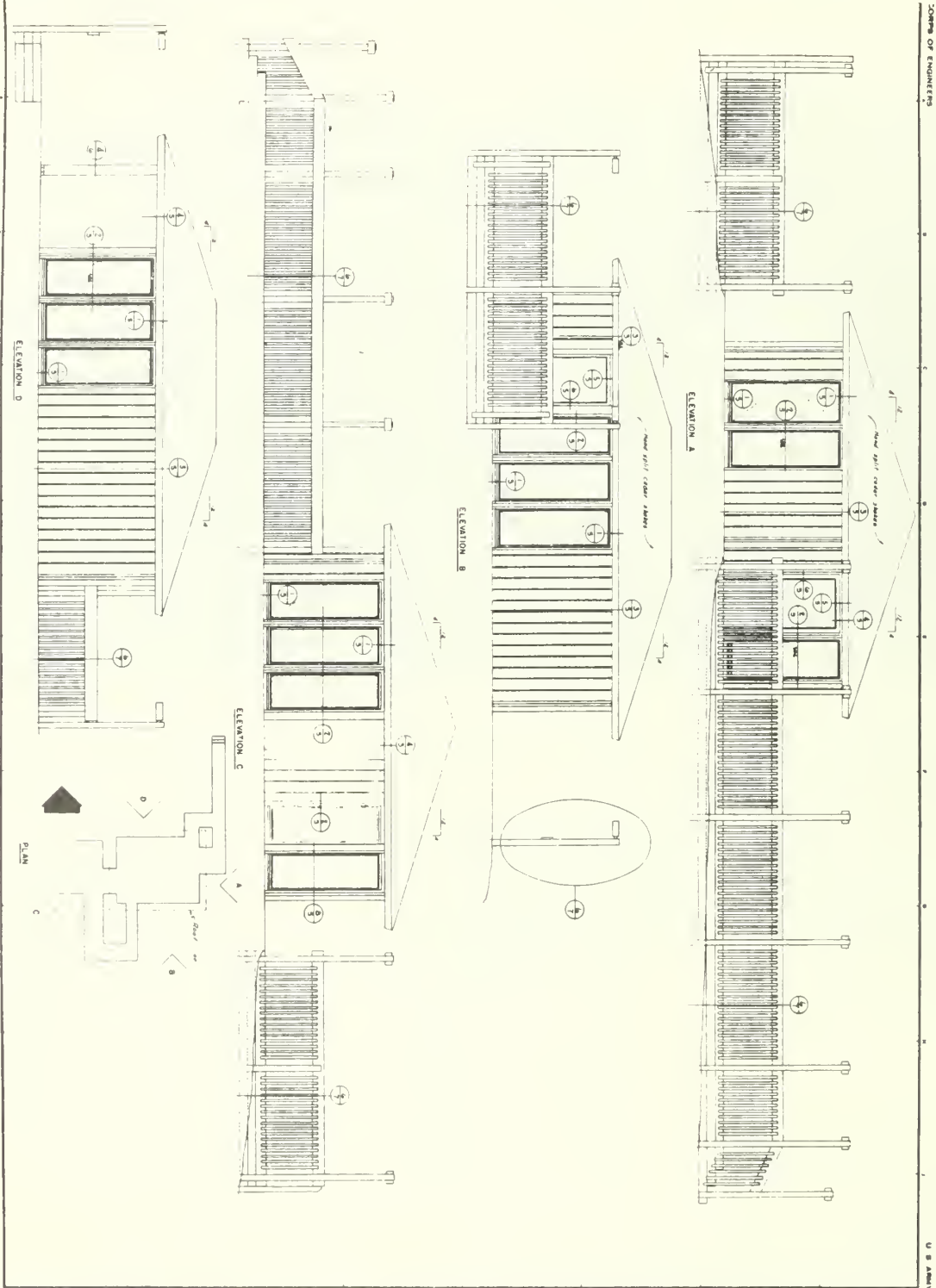
The ceiling is acoustical tile attached to the structural members. Both exterior and interior walls have a wearing surface of rough cedar plywood over a wood frame. The roof is wood framed

with cedar shakes. The floor is a colored, reinforced, concrete slab with an expanded edge, on grade.

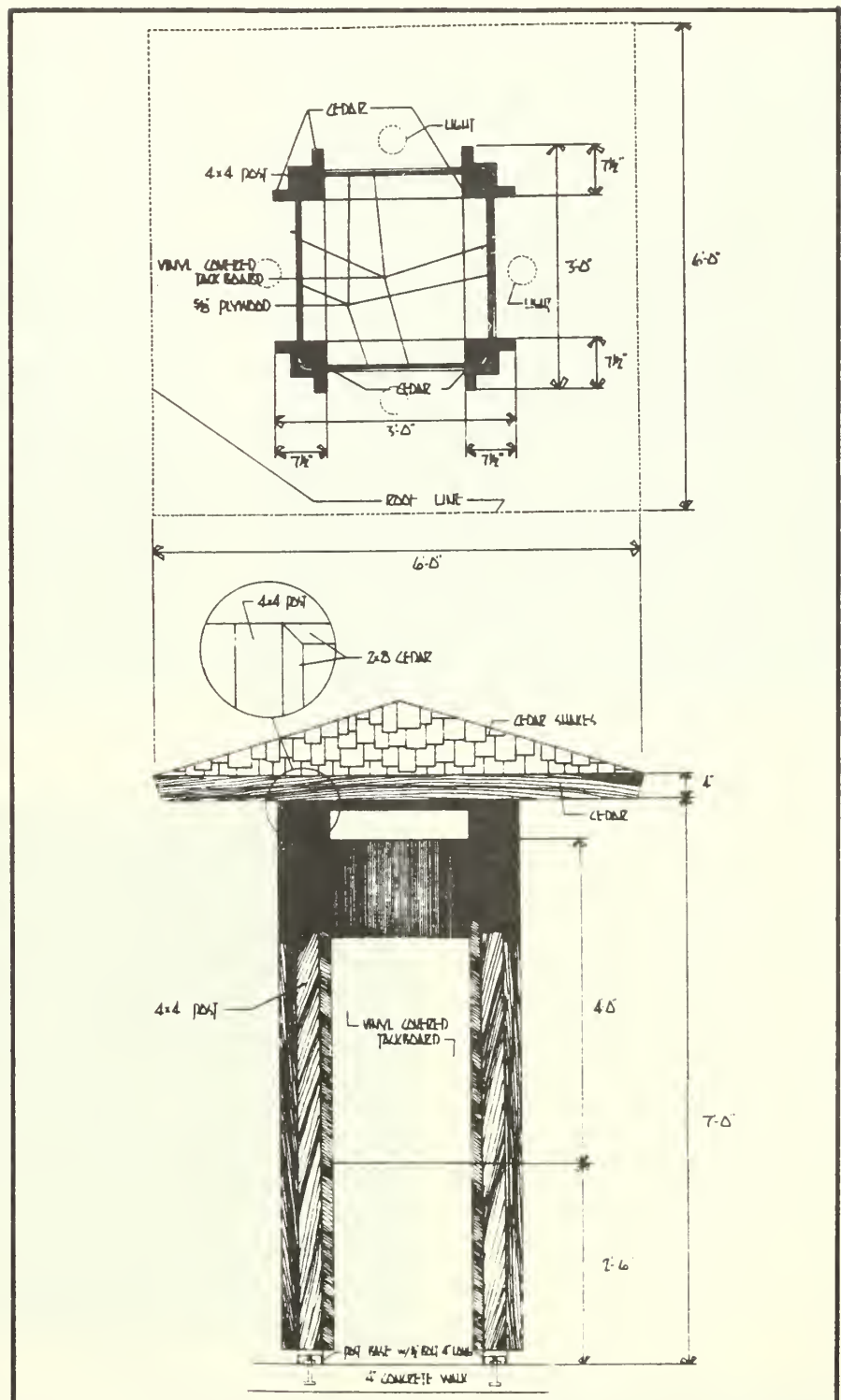
This structure received an Award of Merit in the Chief of Engineers Design and Environmental Awards Program. This program is intended to recognize excellence in the design of, or environmental achievement related to, recently completed structures or area developments by the Corps of Engineers field operating activities and their professional design contract firms.

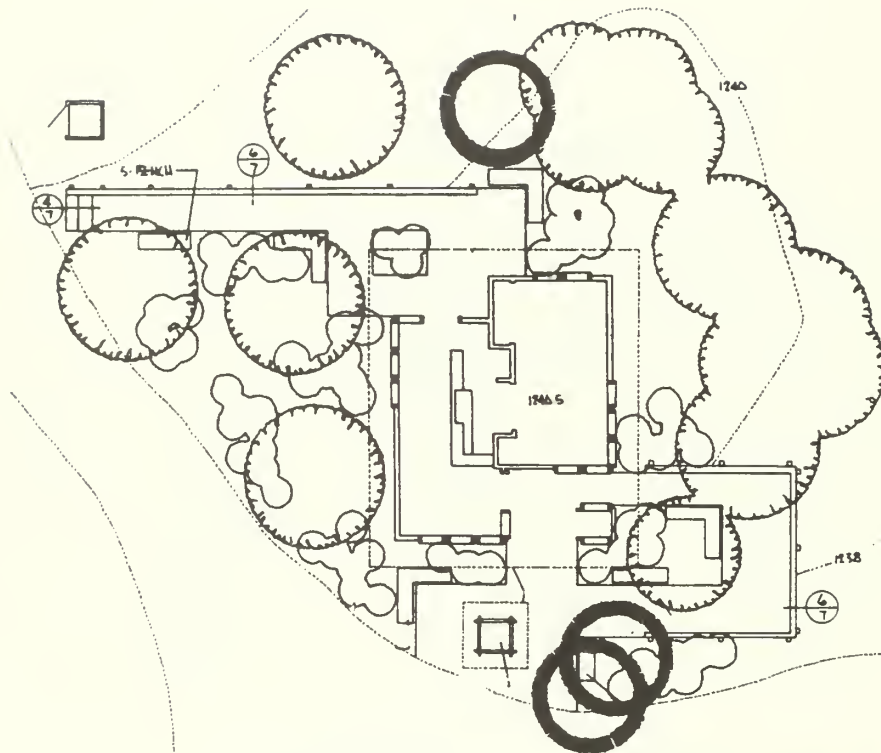
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Index A-1941	Summer 1987	
	Control N-1712-A	



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Ranger Station (cont'd) A-1944

Vault Toilet

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This vault toilet was designed by the U.S. Army Corps of Engineers' Portland District and is located at the Corps' Spearfish Lake Day Use Area on the Columbia River in Oregon. It is located in an area of barren rock, dry grass and sage brush typical to the region of the Columbia Gorge.

The foundation is of reinforced concrete. The structure is of wood framed with lap cedar siding and cedar plywood. The roof frames

are covered with a plywood deck with heavy rustic square butt asphalt shingles. The exterior and interior have a light brown stain finish.

The vault latrine has rectangular skylights to provide natural interior daylight and to reduce vandalism and maintenance.

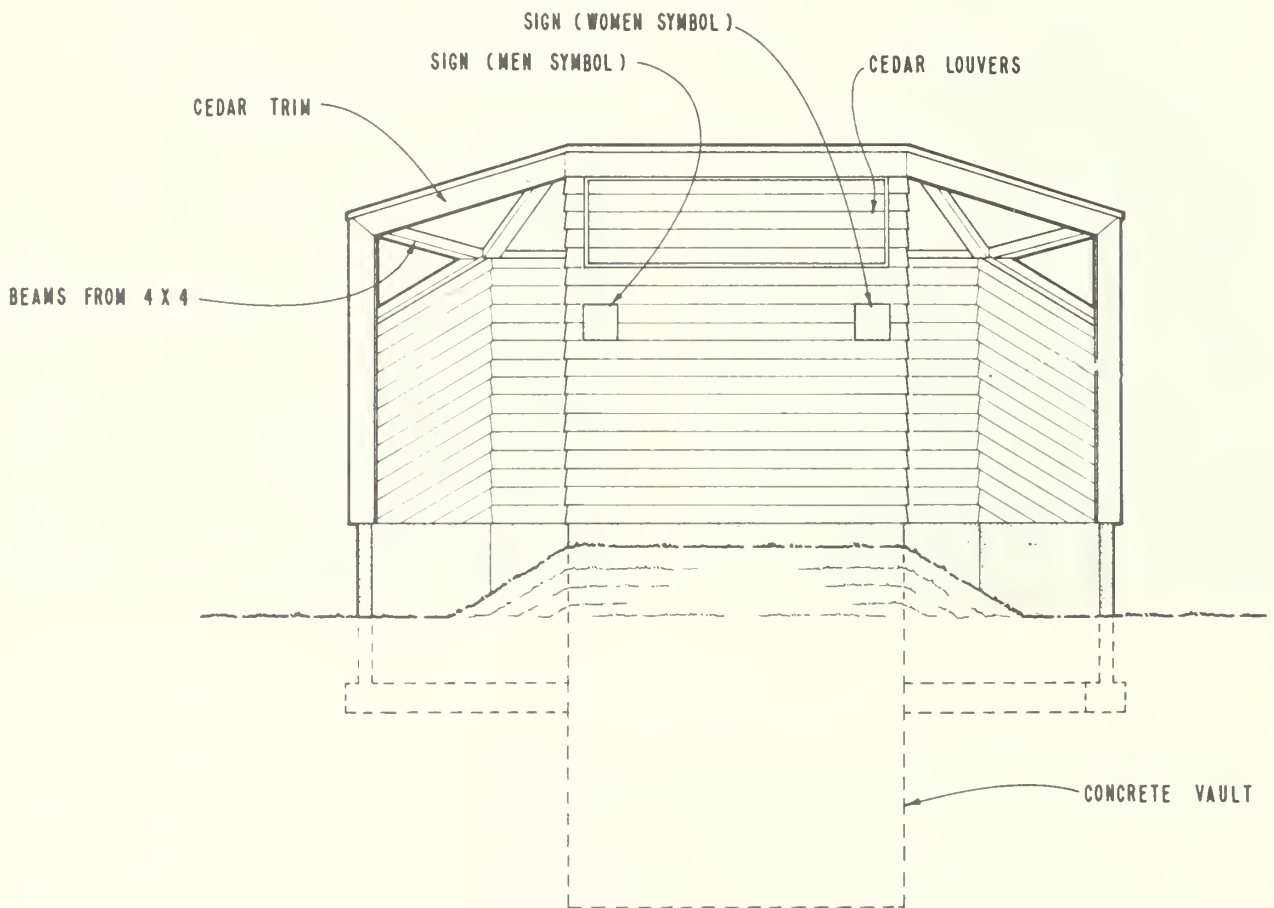
The unique shape of the building was dictated by the attempt to deflect the prevailing wind loads and to blend in with the configura-

tion of basalt outcroppings.

This structure was recognized with an Honorable Mention Award in the Chief of Engineers Design and Environmental Awards Program which is intended to recognize excellence in the design of, or environmental achievement related to, recently completed structures or area developments by the Corps of Engineers field operating activities and their professional design contract firms.

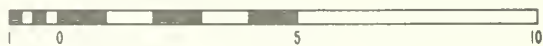
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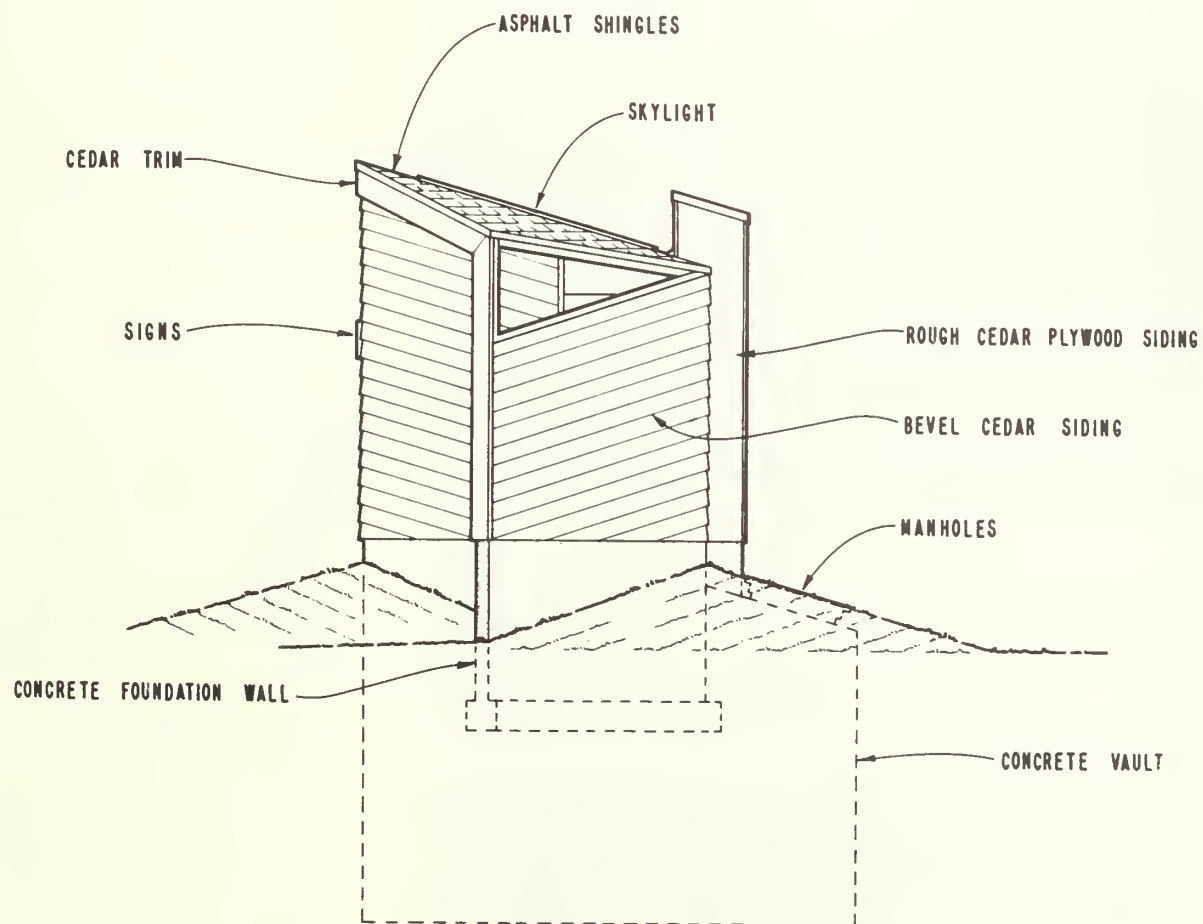
Vault Toilet		Contributed by US Army Corps of Eng
Index	B-3898	
	Summer 1987	
	Control N-1713-B	



FRONT ELEVATION

SCALE
FEET

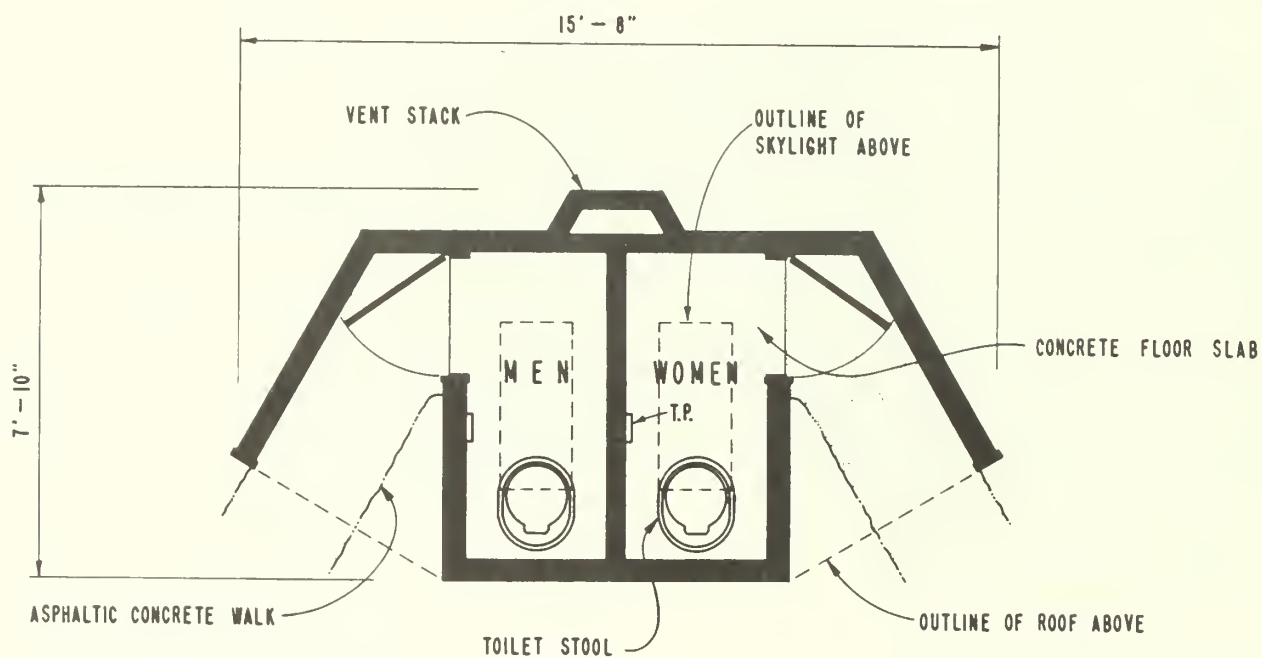




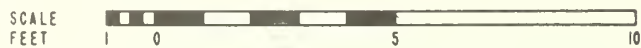
SIDE ELEVATION

SCALE
FEET





PLAN



Picnic Shelter

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This attractive and functional picnic shelter is located at the U.S. Army Corps of Engineers' Spearfish Lake Day Use Area on the Columbia River in Oregon. It was designed by the Corps' Portland District. The shelters are located in an area of barren rock, dry grass and sage brush typical to the region of the Columbia Gorge.

The foundations of the picnic shelters are concrete slabs. The structures are wood framed with lap cedar siding and cedar plywood. The roof frames are covered with a plywood deck with heavy rustic square butt asphalt shingles. The exterior and interior have a light brown stain finish.

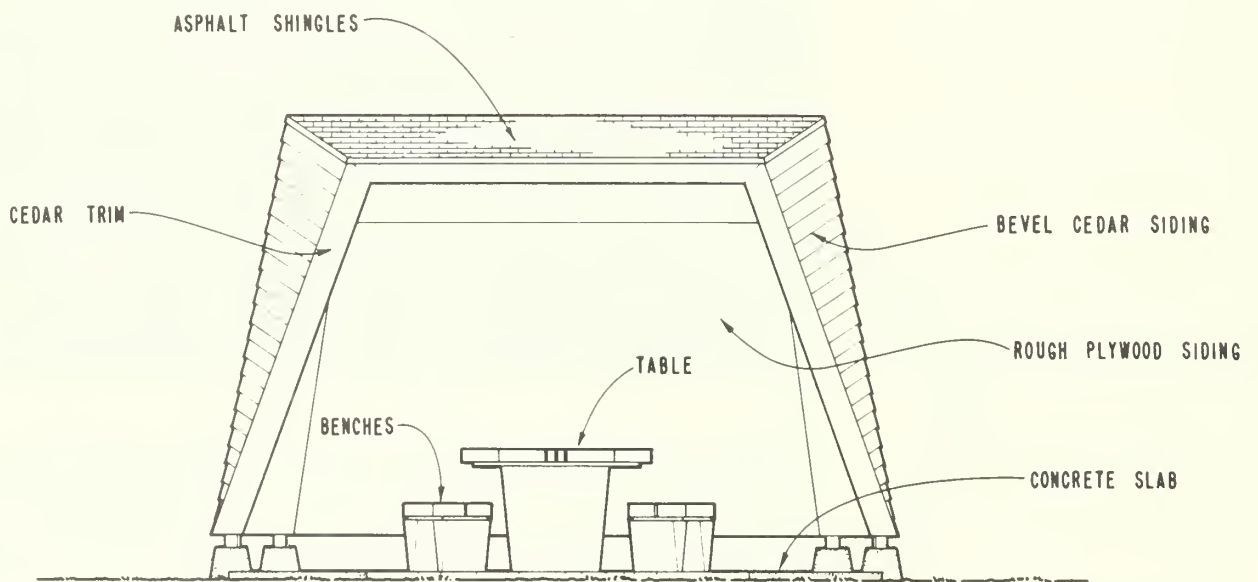
The unique shape of the shelters was dictated by the attempt to deflect the prevailing wind loads and to blend in with the configuration of basalt outcroppings.

This structure received an Honorable Mention Award in the Chief of Engineers Design and Environmental Awards Program which is intended to recognize excellence in the design of, or environmental achievement related to, recently completed structures or area developments by the Corps of Engineers field operating activities and their professional design contract firms.



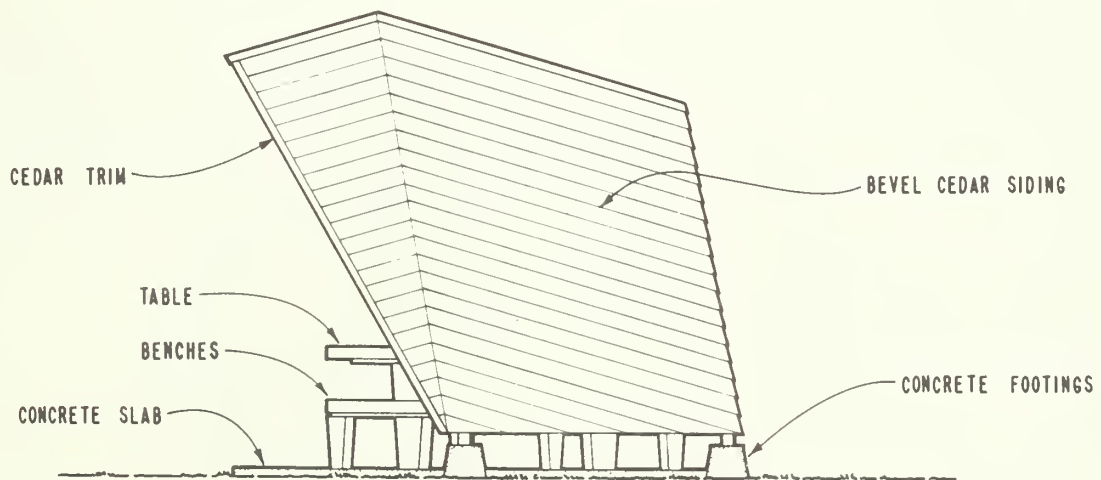
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Picnic Shelter		Contributed by US Army Corps of Eng
Index R-5026	Summer 1987	
	Control N-1714-R	

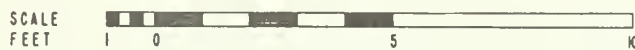


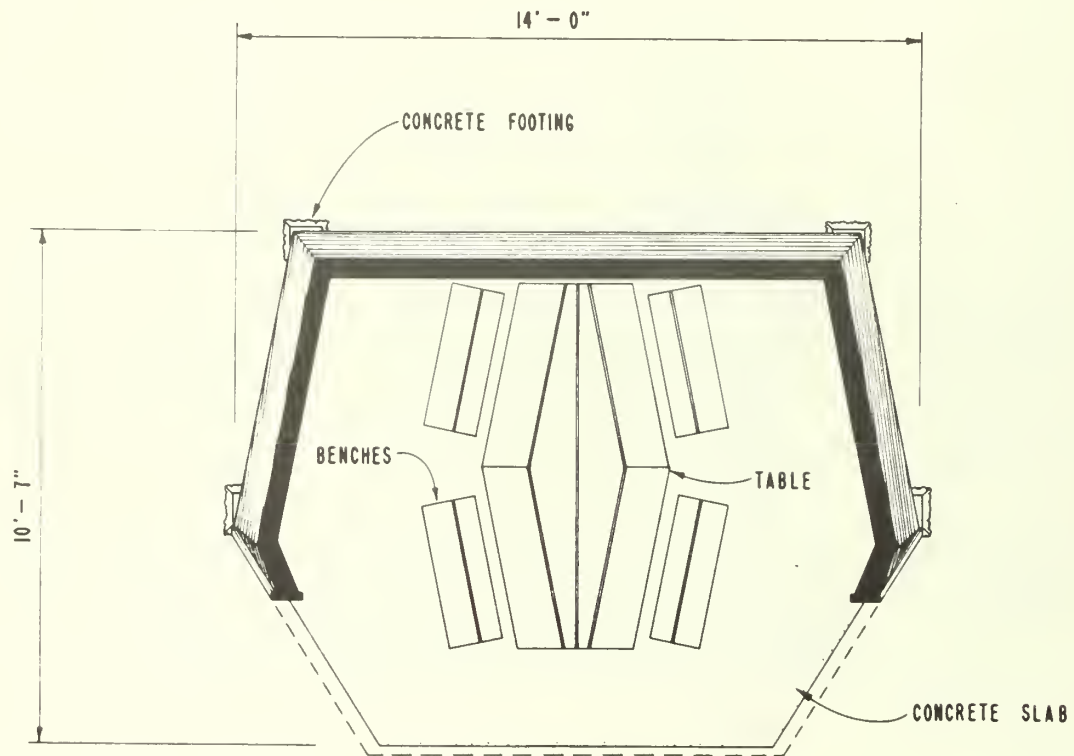
FRONT ELEVATION





SIDE ELEVATION





PLAN

SCALE
FEET

