

## **VII. CONSTRUCTION AT MAJOR PROJECTS**

Modification of dams and facilities as well as the construction of new features is a constant activity at dams. In this chapter only those construction activities that pertain directly to the operation of the projects or have a major impact on the operation of the facility are reported here.

### **A. FEDERAL PROJECTS**

Summary of work from Bureau of Reclamation:

**Specifications and drawings were completed and solicitations issued for the following water management projects in fiscal year 2000.**

#### **1. BAKER PROJECT, UPPER DIVISION**

##### Lilley Pumping Plant - Modifications

A contract in the amount of \$558,781 was awarded on 9/18/00 for modifications to the existing concrete intake structure at Lilley Pumping Plant including installation of traveling water screens with screen spray water system and trashracks.

#### **2. BOISE PROJECT**

Designs and specifications for construction of a 4 acre wetland and repair of spillways in an adjacent wetland area at Hembry Creek on the east side of Cascade Reservoir, Valley County, Idaho, were completed 10/99. Idaho Fish and Wildlife issued the specifications and the \$40,000 project was completed 11/99.

##### Anderson Ranch Dam - Life Safety Improvement

A contract in the amount of \$178,000 was awarded on 6/8/00 for installation of fire labeled doors, frames, and partitions, construction of fire-rated walls and enclosures, installation of a structural steel stairway, and installation of motor-operated fire/smoke dampers.

##### Black Canyon Dam - Drum Gate Rehabilitation

A contract in the amount of \$1,143,410 was awarded on 9/29/00 for the rehabilitation of three 64-foot by 14.5-foot drum gates which included removal and disposal of existing seals, modification of the drum gates for installation of new seals, installation of new seals, repairs to the body of the drum gates, and painting pier plates and exterior of drum gates.

#### **3. CROOKED RIVER PROJECT**

##### Crooked River Diversion - Fishscreen Modifications

A contract in the amount of \$632,050 was awarded on 9/13/00 for construction of a reinforced concrete fishscreen and check structures, a fish return pipeline with a reinforced concrete outlet structure, and a sheet pile diversion weir, and for furnishing and installing a fishscreen cleaner, electrical control system, and water level sensors and controls.

## **OKANOGAN PROJECT**

### **Salmon Lake Dam - Modification**

A contract in the amount of \$2,988,135 was awarded on 7/3/00 for constructing stone columns and wick drains, and performing earthwork operations at the downstream toe of Salmon Lake Dam in order to provide liquefaction remediation for the dam.

## **4. ROGUE RIVER BASIN PROJECT**

Designs and specifications for the Rogue River Wetland Project near Central Point, Oregon on the J. Herbert Stone nursery operated by the US Forest Service were sent to the Forest Service on 8/18/99 for their issue. Construction was completed 10/99. The \$40,000 project involved construction of a water supply for a future wetland project.

### **Outlet Structure Modifications - Phoenix Diversion Dam**

A contract in the amount of \$29,139 was awarded on 7/5/00 for construction of reinforced concrete outlet structure.

## **5. TUALATIN PROJECT**

### **Patton Valley Pumping Plant - Fishscreen Modifications**

A contract in the amount of \$251,686 was awarded on 9/27/00 for modifying a portion of the reinforced concrete pumping plant wall, removing and replacing a concrete transition block, and rebuilding the existing traveling water screen.

Designs and specifications for Tualatin River National Wildlife Refuge, Dennis Property Earthwork, were completed and sent to Fish and Wildlife Service, Portland, Oregon on 7/6/00 for their issue. The \$300,000 project involved construction of compacted embankment, access roads, spillways, stormwater channels and ponds, riprap swales, and flood plain borrow/enhancement.

### **Tualatin River National Wildlife Refuge Dennis Unit - Outlet Works**

A contract in the amount of \$52,564 was awarded on 8/24/00 for construction of a concrete control structure, and for furnishing and installing 30-inch diameter pipe and metal control gates.

## **6. UMATILLA PROJECT**

### **Cold Springs Safety of Dams Modification - Feed Canal Backflow Prevention Structure Modification**

A contract in the amount of \$80,903 was awarded on 8/8/00 for removal of four flap gates and four gate winches and removal of existing concrete piers from the existing backflow prevention structure, construction of concrete retaining walls, and furnishing and installing two steel flap gates and two battery powered gate winches.

## **7. YAKIMA PROJECT**

### **Kachess Dam - Spillway Modifications**

A contract in the amount of \$633,209 was awarded on 8/18/00 for removing existing concrete spillway walls, for installation of drainage pipelines, construction of new grouted riprap drains along the outside of each spillway

wall, construction of new reinforced concrete spillway walls and weir boxes, and making concrete repairs to the existing reinforced concrete floor slab and walls.

#### South Naches Fishscreen Sites - Powell/LaFortune and Scott

A contract in the amount of \$370,853 was awarded on 9/29/00 for construction of a diversion structure pipeline, an energy diffuser structure, a reinforced concrete fishscreen structure, and a fish return pipeline and outfall structure at the Powell/LaFortune site and for the Scott site, construction of a reinforced concrete fishscreen structure, a fish return pipeline and outfall structure, and a fish sampling well, placing concrete abutments, precast voided bridge slabs and curbs, and hand railing for construction of a new bridge, and site grading, subbase, and road embankments for existing access road.

#### Chandler Canal - Lining Modification

A contract in the amount of \$97,860 was awarded on 9/8/00 for power washing the invert surface of the original concrete canal lining and furnishing and installing approximately 1400 lineal ft of reinforced concrete or shotcrete lining, 4 inches thick over the existing 12-foot wide canal invert.