



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Paul Moore

Date of Photograph: 1977

Location of Photograph Negative: Tennessee Valley Authority,
Knoxville, Tennessee

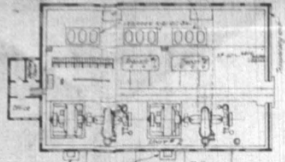
Description of View: View is of powerhouse, flume and incline.
Note penstocks at right (rear of powerhouse) and transmission lines
to Ocoee No. 3 at left in background. Transformers in switchyard
can be seen above the powerhouse. Location of former railroad
tracks can be seen along the right bank of the river below the
powerhouse. Photograph is looking south-southeast.

Photograph Number: 1 *of 26*

DOE
JUL 26 1979

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Note: Distances shown as measured along flume.



GENERAL PLAN OF POWER HOUSE
Sta. 210



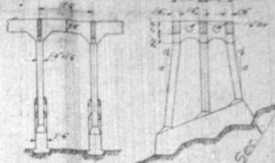
TYPICAL SECTION THRU FLUME AT WOOD BENT
(Original construction)



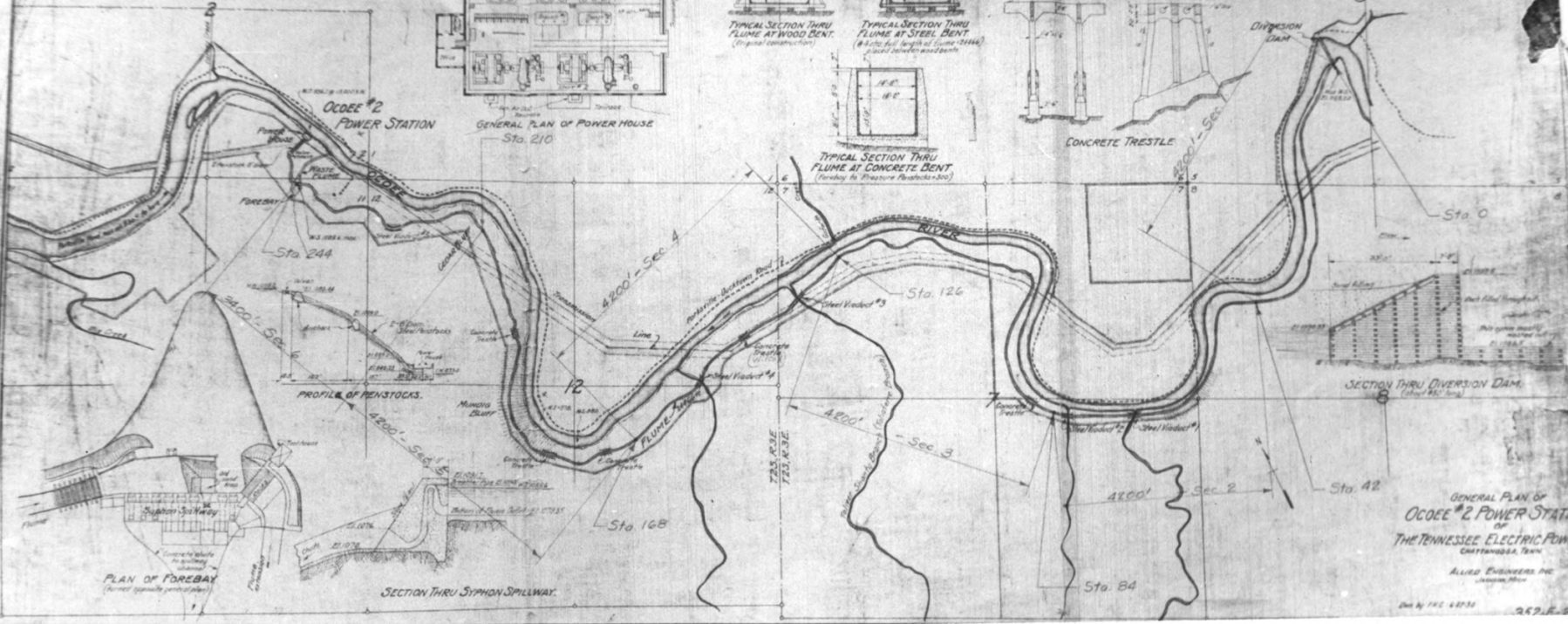
TYPICAL SECTION THRU FLUME AT STEEL BENT
(4.4 ft. full length of lower 24116)
placed between wood bents



TYPICAL SECTION THRU FLUME AT CONCRETE BENT
(ready for Pressure Reinforcing 500)



CONCRETE TRESTLE



PROFILE OF PENSTOCKS

PLAN OF FOREBAY
(as met opposite penstock)

SECTION THRU SYPHON SPILLWAY

SECTION THRU DIVERSION DAM
(about 165 ft. long)

GENERAL PLAN OF
OCOEE #2 POWER STATION
OF THE TENNESSEE ELECTRIC POWER
CORPORATION
CHATTANOOGA, TENN.

ALLIED ENGINEERS INC.
MEMPHIS, TENN.

Drawn by T.E.C. 4/27/35

252.E. 21-1

Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Joseph L. Herndon

Date of Photograph: 1978 (date of drawing: 1930)

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: Photograph is of a Tennessee Power Company drawing of the general plan of the flume and Ocoee River. Drawing includes sketches of several details; plan of forebay and powerhouse, sections through the flume, diversion dam, siphon spillway, etc.

Photograph Number: *2926*

OCT-3 1979

JUL 26 1979



STOKES
SUN PHOTO CO.
CHICAGO, ILL.

Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Carl Stokes, Stokes Commercial Photo Company,
Chattanooga, Tennessee

Date of Photograph: 1932

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: Aerial photograph of the Ocoee River and the last half mile of the flume. The powerhouse is visible at the center top, the forebay directly to its left, and the upper terminus of the incline slightly below the forebay. The entire flume extension is visible above the powerhouse. A waste flume seen below the flume extension carries excess water from the forebay to the river in the event of the siphons opening. Photograph is looking northwest.

Photograph Number: *3426*

DOE
OCT 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *POLK County*

Name of Photographer: Paul Moore

Date of Photograph: 1977

Location of Photograph Negative: Tennessee Valley Authority,
Chattanooga, Tennessee

Description of View: View is of diversion dam and beginning of flume.
Intake gate is at center of photograph. Trash racks above gate
prevent large floating and submerged objects from entering flume.
U.S. Highway No. 64 can be seen in the background. Photograph is
looking southeast, upstream towards Ocoee No. 3.

Photograph Number: 4 *0/26*

DOE

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JUL 26 1979

GR-77148



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of downstream side of diversion dam.
Flume intake gatehouse and beginning of flume are visible to the
right. River is dry due to the diverting of all of the water into
the flume. Note layering of crib construction in the face of the
dam. Photograph is looking east.

Photograph Number: 5 *9/26*

JUL 26 1979

DOE
OCT 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Paul Moore

Date of Photograph: 1977

Location of Photograph Negative: Tennessee Valley Authority,
Knoxville, Tennessee

Description of View: View is of the flume on the mountainside, with the Ocoee River and U.S. Highway No. 64 below. In this photograph, water inside the flume is flowing from left to right, towards the powerhouse. Note that the flume appears to be sloping up in that direction. This illusion of the water seeming to flow uphill appears both in photographs and in fact, and is visible at several points along the flume.

Photograph Number: *60/26*

DOE
OCT 31 1979

JUL 26 1979

GR 77154



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the flume box above the Ocoee River.
Note how the flume is carved into and set on the bedrock of the
mountainside. Also note the poles for telephone and 440 volt
power lines on the flume, bringing operating current from the
powerhouse to the intake gatehouse. Direction and location of
photograph is undetermined.

Photograph Number: *7426*

OOE
OCT 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Joseph L. Herndon

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee

Description of View: View of the top of the flume box. Note flume
box is not fully covered; standing water can be seen below the
collar ties. Walkways are included on each side where the top is
open.

Photograph Number: *89/26*

JUL 26 1979

DOE
OCT 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee; *Polk County*

Name of Photographer: Joseph L. Herndon

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of flume as it crosses trestle no. 5.

Photograph Number: *9/26*

DOE
OCT 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the powerhouse, prior to the removal of transformers to the switchyard for fire safety reasons. Note the penstocks above and the tracks of the industrial railroad between the powerhouse and the river. The railroad was used to carry construction materials upstream from Ocoee No. 1 to the base of the incline. Note also the original insulators and transmission equipment on the roof of the powerhouse.

Photograph Number: 10 *926*

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JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

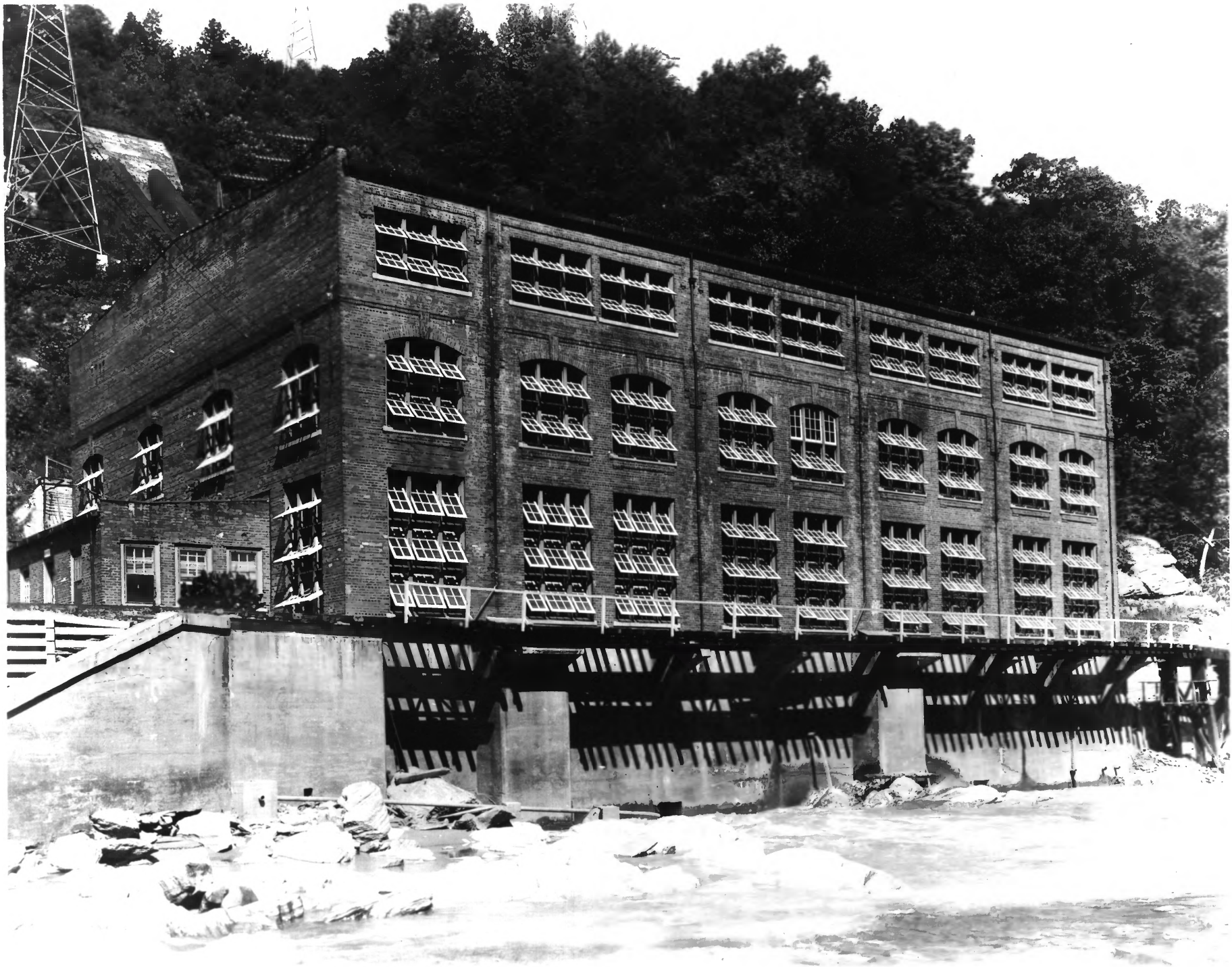
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the powerhouse and switchyard.
Note the present location of the transformers and oil circuit
breakers outside the powerhouse. The outlet of the waste flume
carrying excess water from the forebay is visible in front of the
switchyard. Photograph is looking north-northwest, taken from
the incline.

Photograph Number: 11 of 26

DOE
OCT 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

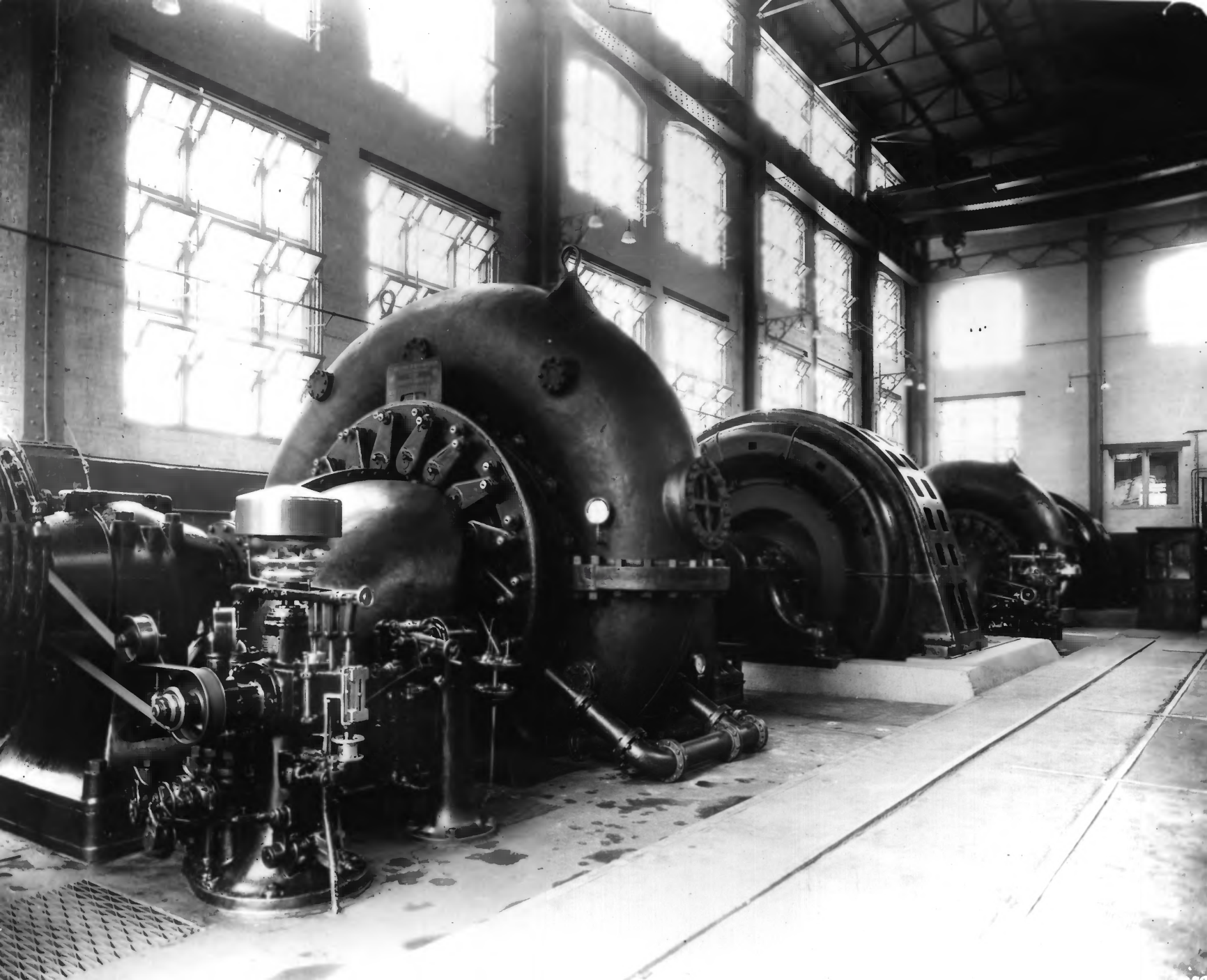
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the powerhouse on the Ocoee River.
Note the railroad tracks cantilevered off the main building foundation.
Compare brickwork with north elevation, illustration number 16.
Photograph is looking northwest.

Photograph Number: *12/26*

DOE
OCT 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

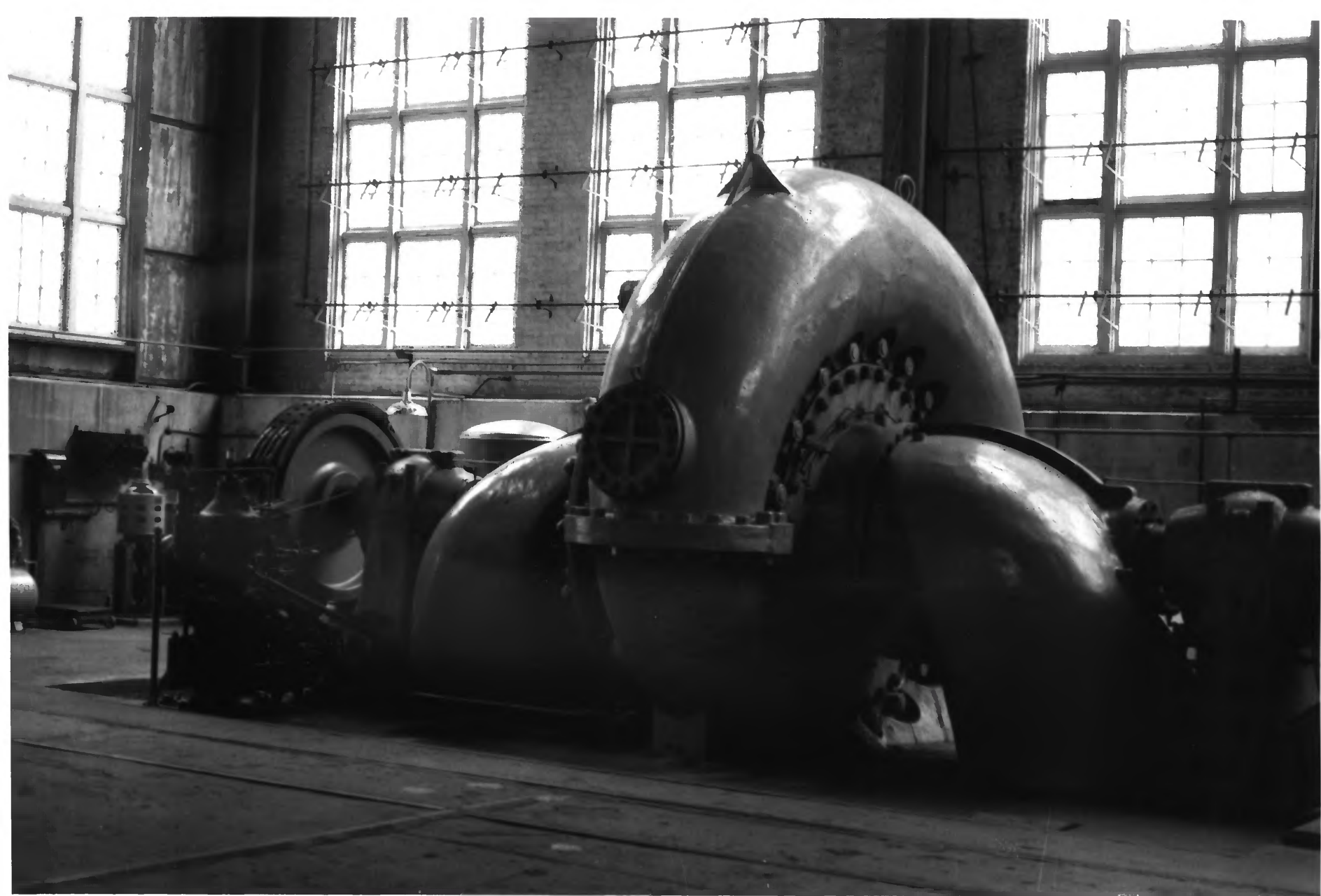
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View of the interior of powerhouse showing
governor oil pump, turbine and generator for each unit no. 2
(fore- and middleground) and unit no. 1 (extreme rear). Generator
unit no. 2 was destroyed in 1949 and replaced by a new unit. Note
the original lighting fixtures (still extant, see illustration
number 26). Photograph is looking southeast.

Photograph Number: 13 *of 26*

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JUL 26 1979

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Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

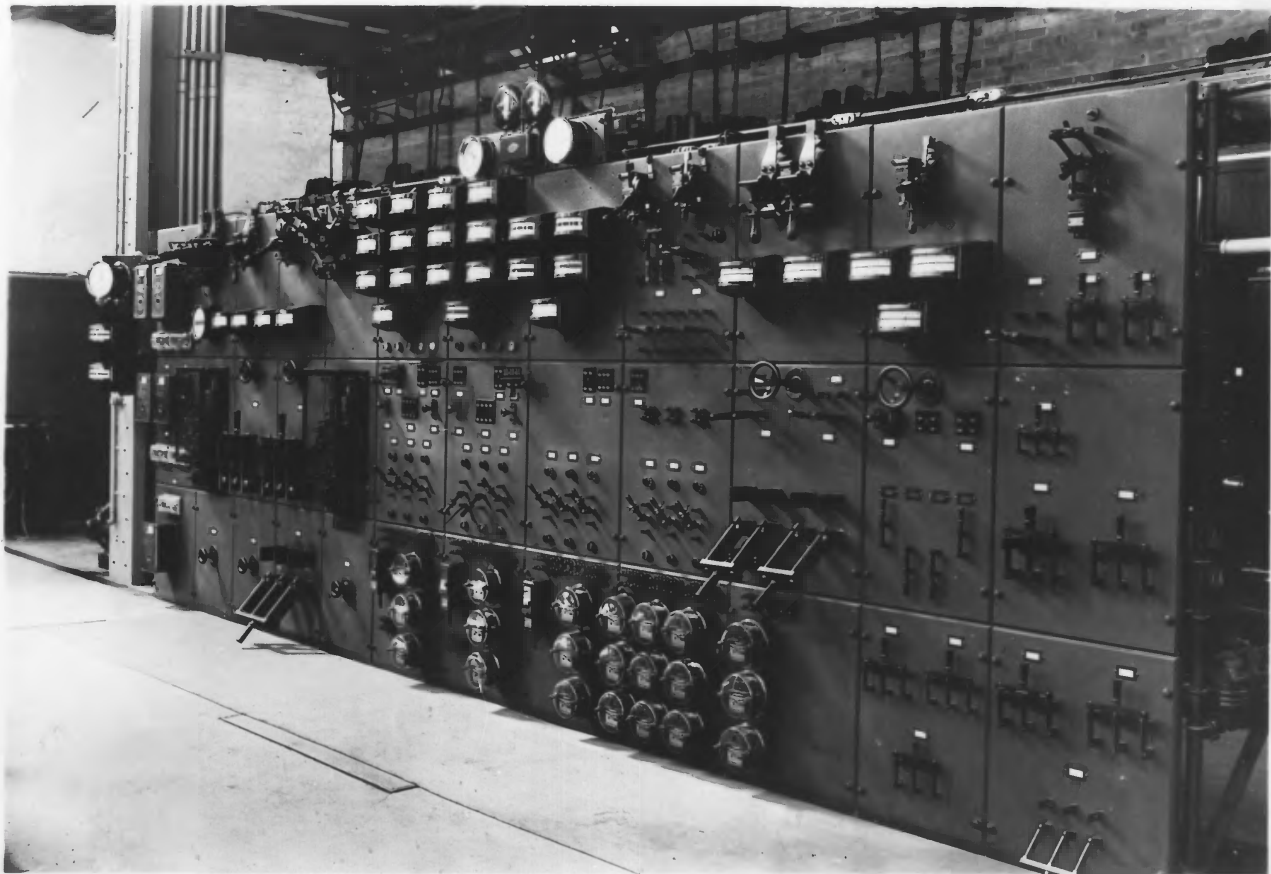
Description of View: View is of turbine unit no. 2. The horsepower output of this unit was increased by 50% (to 15,000 hp) in 1924 by installing the curved draft tube visible on each side of the unit. The new draft tubes more closely follow the natural flow of water, increasing the units efficiency significantly. Note belt driven governor oil pump at left.

Photograph Number: 14 *926*

JUL 26 1979

DOE

OCT. 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the powerhouse switchboard. This
equipment still controls the output of Ocoee No. 2.

Photograph Number: 15 *926*

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DOE
OCT 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Joseph L. Herndon

Date of Photograph: 1978

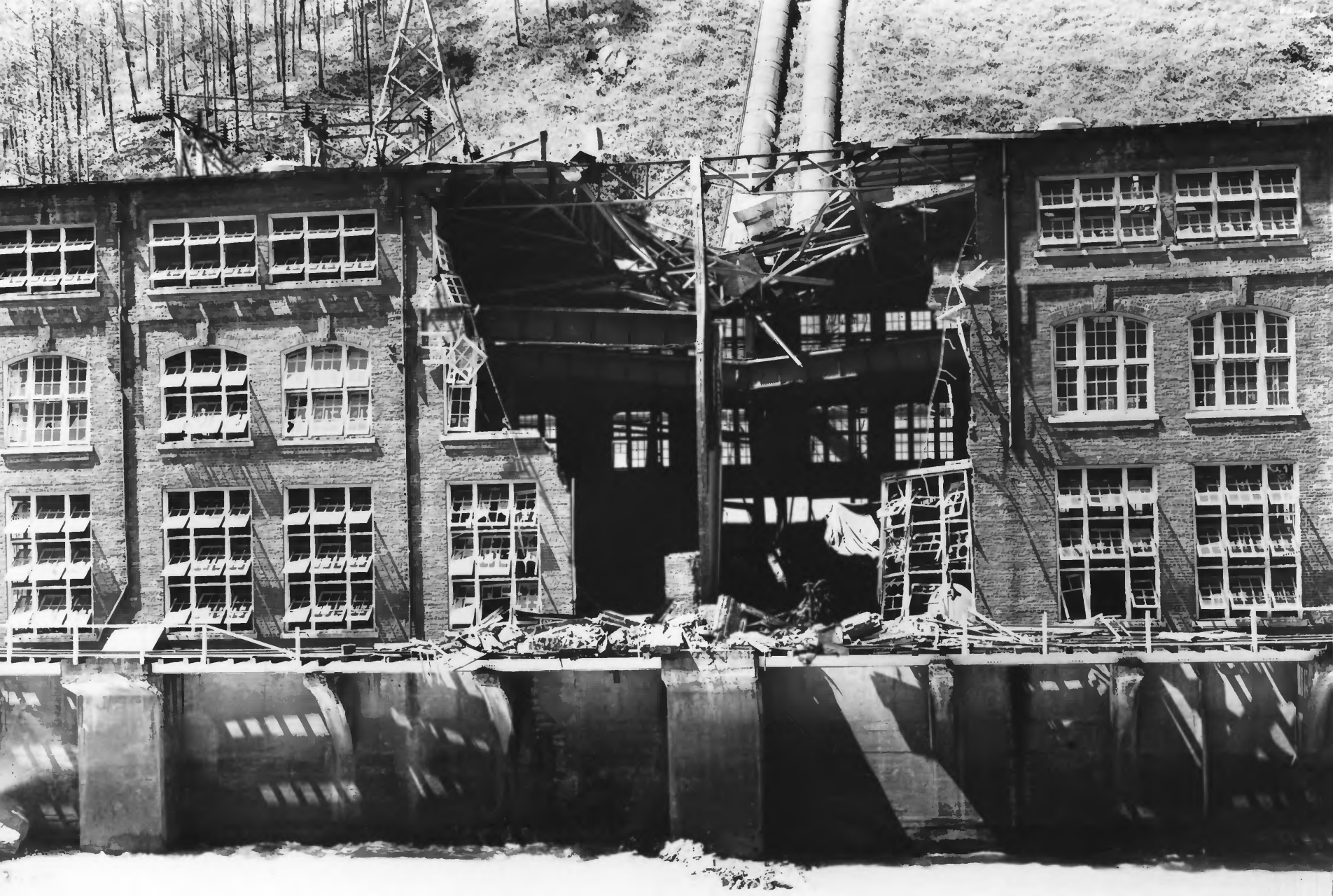
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View of the exterior of the powerhouse, showing the "unfinished" north wall with main equipment access doors. The unfinished wall and provisions for the never-installed third penstock earned the development a deferred tax status for theoretically being under construction. Compare the brickwork with the east and south elevations, illustration number 12. Note the former railroad bed circling to the left of the powerhouse. Photograph is looking south-southwest.

Photograph Number: 16 *4/26*

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OCT. 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: 1949

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the river side of the powerhouse
following the runaway of generator unit no. 2 on April 14, 1949.
Note the railroad tracks crossing between the powerhouse and the
river, now removed. Photograph is looking west-southwest.

Photograph Number: 17 *426*

DOE
OCT 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

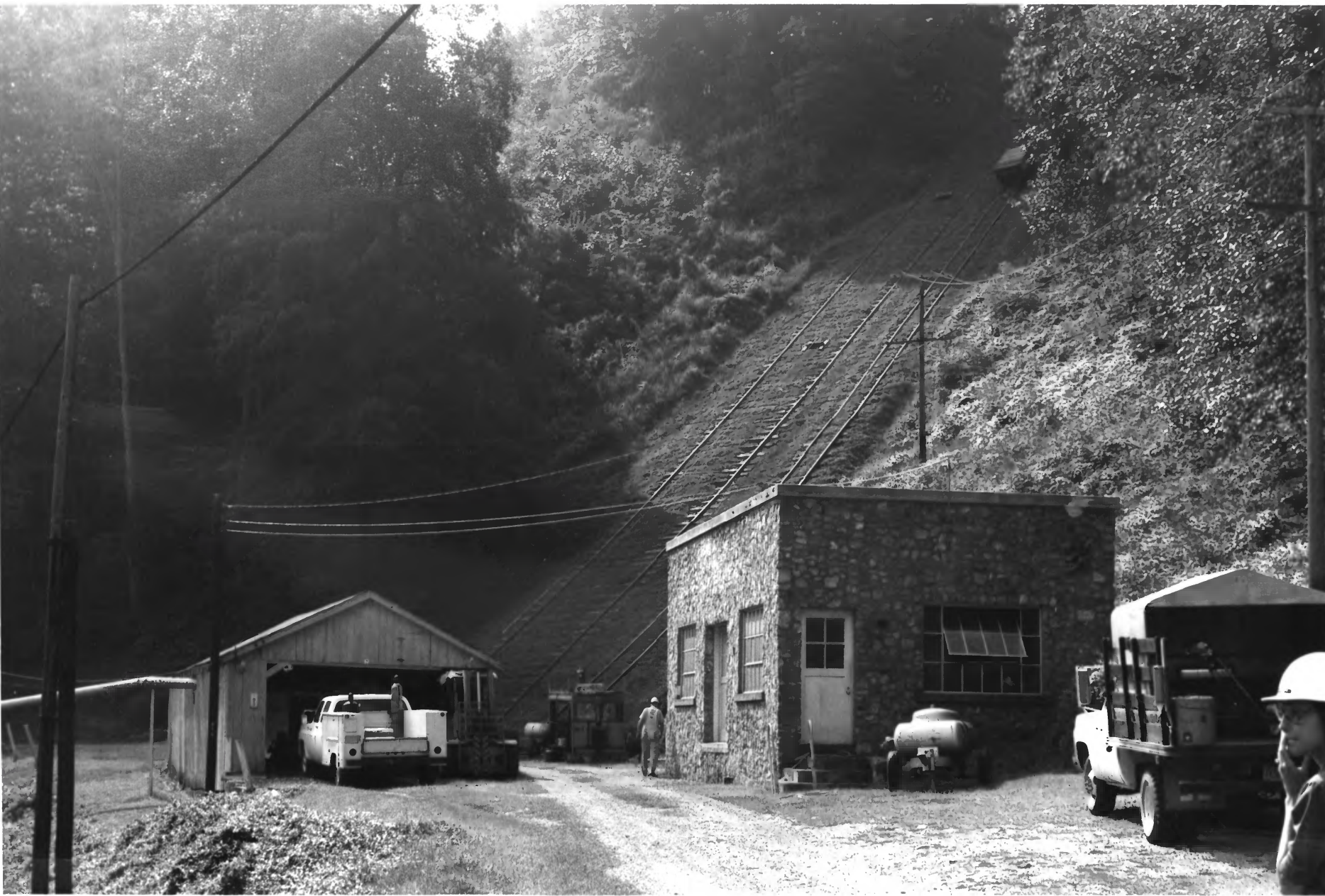
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the main transformers, located in the switchyard. The taller unit at the rear is a later addition, installed to supplement the two main units (center foreground) which were originally located inside the powerhouse. The two original transformers were moved out into the yard for fire safety reasons following the runaway of generator unit no. 2. All three transformers are now bus connected in parallel to the two generating units and put out the power at 69,000 volts. Station service transformer unit no. 2 can be seen in the right foreground. Note the incline visible in the left background. Photograph is looking southeast.

Photograph Number: 18 *426*

OCT. 31 1979
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JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

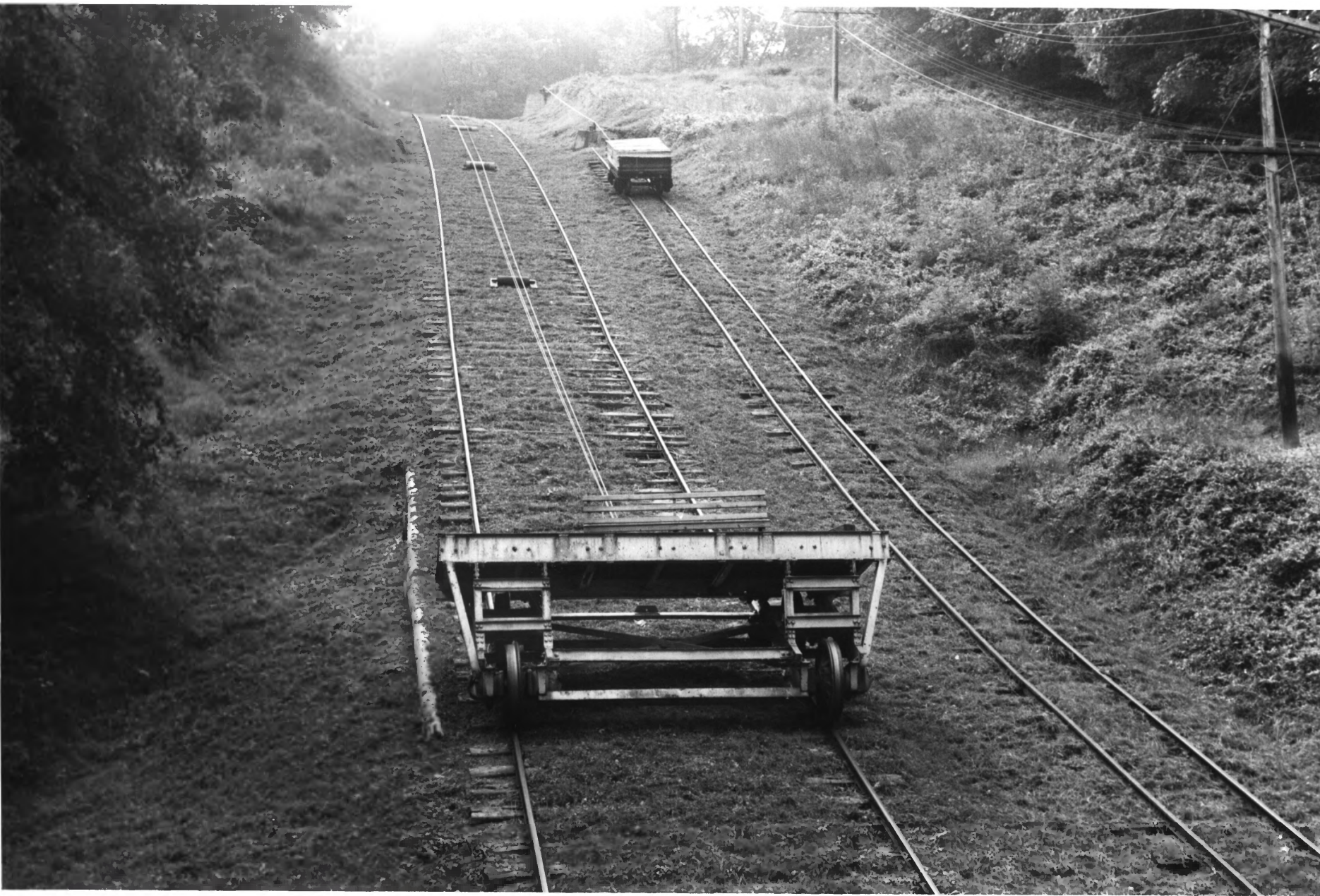
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the lower terminus planing mill,
left, and the shop/blacksmith shop, right. Note the incline to
the rear of the shop and the balance car visible at the upper
right. Photograph is looking southeast.

Photograph Number: 19*026*

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Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

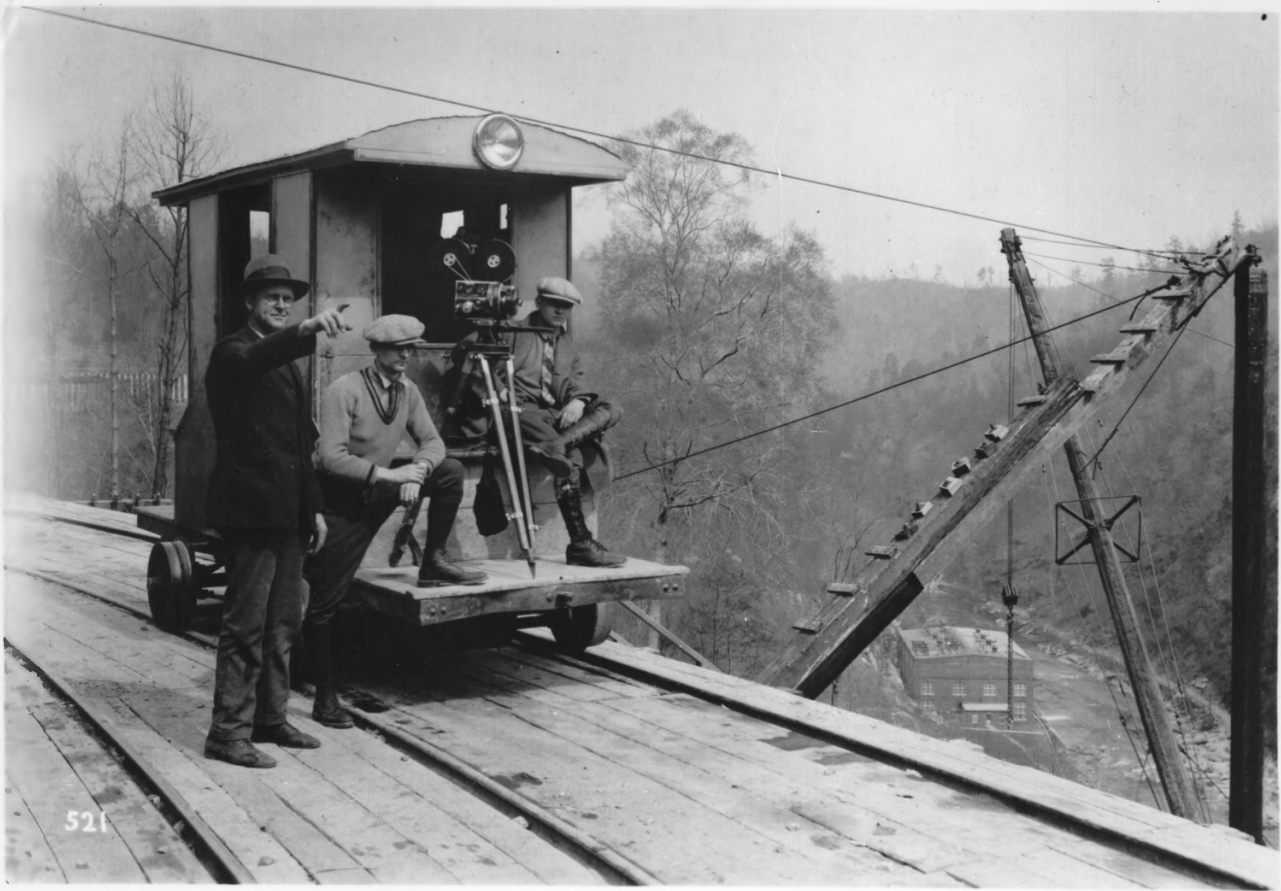
Description of View: View is of the incline travelling up the mountain towards the flume. Note the broad gauge tracks for the incline car and narrow gauge tracks for the balance car. The incline pulley system permits balance car to travel only half the distance of the incline car. Photograph is looking south.

Photograph Number: *209/26*

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OCT. 31 1979

JUL 26 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the top of the flume at the upper terminus of the incline. Note the wooden derrick, right foreground; the river and powerhouse, right background; and the flume extension, left background. Note also that the top of the flume box is fully covered at this point. The occasion is the filming of the movie "White Coal" about hydroelectric power production by the Tennessee Power Company around 1930. Photograph is looking north-northwest.

Photograph Number: 21 *926*

JUL 26 1979

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Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the top of flume box, showing the workers' "Pullman" car, used for servicing the flume. Note the presence of boardwalks after the fully covered flume top ends. Note also the concrete trestles below the flume, used over small ravines where large steel trestles were not originally necessary. Concrete trestles completely replaced the original wooden trestles around 1927. Photograph is taken at the covered section of the flume above the upper terminus of the incline; direction is looking north-northeast towards the forebay.

Photograph Number: 22 *426*

DOE
OCT. 31 1979

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Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: ?

Date of Photograph: c. 1930

Location of Photographing Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View of start of flume showing downstream side
of diversion dam, 400 foot swinging footbridge, Taintor gate and
flume intake gatehouse. Note: top of flume is fully covered at
beginning of flume. Photograph is looking east. .

Photograph Number: 23 *of 26*

JUL 26 1979

DOE
OCT 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Joseph L. Herndon

Date of Photograph: 1978

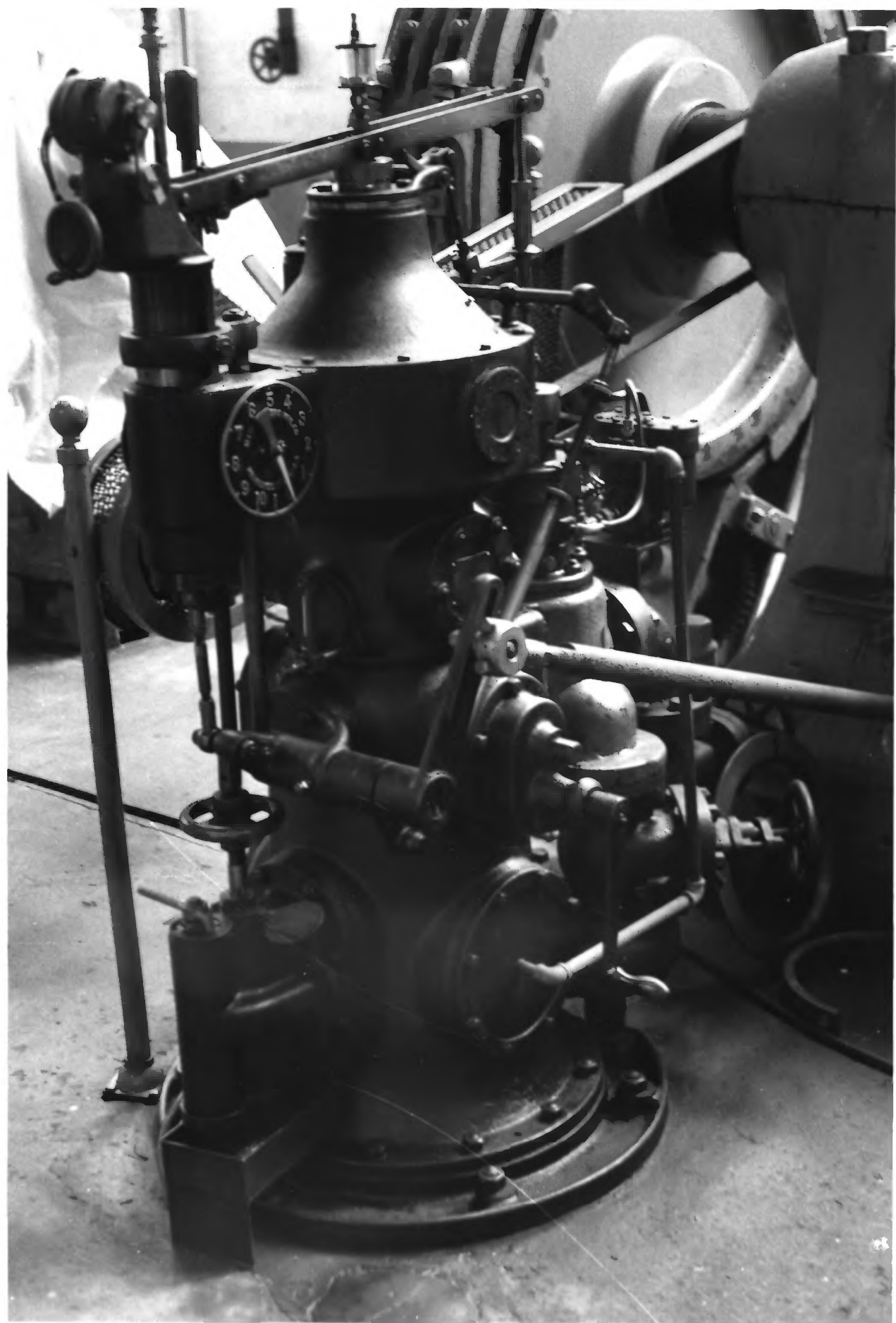
Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the 400 foot suspended swinging bridge over the top of the diversion dam. The beginning of the flume, the intake gatehouse and trash racks are visible in the background; right, center and left respectively. Water spilling over the diversion dam is visible below the right side of the bridge. Photograph is looking south.

Photograph Number: 24 *9/26*

JUL 26 1979

DOE
OCT 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Joseph L. Herndon

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: Photograph is of the governor oil pump inside
the powerhouse. Pump is used for maintaining the oil supply to
governor unit no. 2.

Photograph Number: 25 *of 26*

JUL 26 1979

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OCT 31 1979



Name of Property: Ocoee Hydroelectric Plant Number Two

City and State: Ocoee, Tennessee, *Polk County*

Name of Photographer: Douglas A. Yorke, Jr.

Date of Photograph: 1978

Location of Photograph Negative: Building Conservation Technology,
1217 Fifth Avenue North, Nashville, Tennessee 37208

Description of View: View is of the interior of the powerhouse and the original powerhouse light fixture. Note the change in the color of brickwork at the center pier where the wall was destroyed by the generator runaway. Note also generator unit no. 2 (under plastic cloth in center of photograph), the eye on top of the turbine for lifting and removing for service, (lower left), and the overhead 30 ton service crane (upper left).

Photograph Number: 26 *of 26*

JUL 26 1979

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OCT 31 1979