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PUBLIC SAFETY PLANS

CENTRAL MAINE POWER COMPANY PROJECTS

Project Nos: 2142 Harris
2194 Bar Mills
2283 Gulf Is/Deer Rips
2284 Brunswick
2322 Shawmut
2325 Weston
2329 Wyman
2335 Williams
2519 North Gorham
2527 Skelton
2528 Cataract
2529 Bonny Eagle
2530 Hiram
2531 West Buxton
2552 Fort Halifax
2555 Messalonskee Stream (Automatic)
2556 Messalonskee Stream (Union Gas)
2557 Messalonskee Stream (Rice Rips)
2559 Messalonskee Stream (Oakland)
2574 Lockwood

9206050069

HARRIS HYDRO PUBLIC SAFETY PLAN

HARRIS HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Harris Project No. 2142 is located on the Kennebec River in Somerset County, Maine in the Townships of Indian Stream and Chase Stream. The river passes through the project area in a northeast-southwest direction. The total drainage area of the reservoir is 1382 square miles consisting of mountains and foothills. The land bordering the Project is entirely forested and is owned and managed by Paper Companies for timber production.

The Project consists of a main earth dike, concrete intake structure, concrete spillway structure, log sluice, concrete abutment and the powerhouse which is connected to the intake structure by means of four steel pensstocks. Also separated from the main complex is an earth dike located southeast of the spillway.

The Project boundary extends about 0.5 miles downstream of the dam. The Project reservoir is 8.5 miles long. At full pond elevation, 955 feet, the reservoir has a surface area of 3,666 acres, a volume of 72,250 acre-feet, and a shoreline of 35 miles.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The maps in Exhibit 1 show the location of each safety device and proposed safety devices and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 337 Foot Spillway

2.1.1 Existing Safety Devices

- The Main Gate is staffed during the rafting season (April to October).
- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillway.
- Two "DANGER, STAY BACK" signs (3 and 4) are located on the dam railings. One is on the railing next to the intake on the east side of the dam and the other is on the railing on the west side of the dam.
- Two "DANGER, HYDRO STATION" signs (14) are located at each end of the dam structure or fence, facing away from the dam.
- Lights illuminating the gate structure.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance, parking lot, and substation area.
- Two "DANGER, HIGH VOLTAGE" signs (13) located on the two sides of the substation chain link fence exposed to the public.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse.

2.3 Tailrace

2.3.1 Existing Safety Devices

- One "DANGER, WATER MAY RISE RAPIDLY" sign (5) is located on the downstream side of the dam, above the out-flow.
- "WARNING! FOR THE NEXT 12 MILES THE KENNEBEC RIVER CAN BE EXTREMELY DANGEROUS. STRONG CURRENTS AND RAPIDS MAY CAPSIZE BOATS. DAM OPERATIONS MAY RESULT IN RAPIDLY RISING WATER AND SUDDENLY INCREASING FLOWS THAT CAN OVERTAKE PERSONS FISHING OR WADING ALONG THE SHORE. NO EMERGENCY SYSTEM EXISTS TO ASSIST PERSONS USING THIS AREA. THIS SECTION OF THE RIVER SHOULD NOT BE NAVIGATED EXCEPT BY EXPERIENCED BOATERS WITH PROPER EQUIPMENT. IF YOU DO BOAT OR FISH THE KENNEBEC GORGE PLEASE BE EXTREMELY CAREFUL" sign (6) located inside the gate next to the rafters parking area, on top of the hill before the road pitches down to the powerhouse.
- Two seasonally installed signs "DANGER OF DROWNING/WADING PROHIBITED" are located along the path the rafters take from the parking lot to the raft put-in.

- "WARNING: WATER IN THE KENNEBEC RIVER GORGE MAY RISE RAPIDLY WITHOUT WARNING!" sign (7) located to the immediate east of the Indian Pond and Harris Station access road approximately one mile beyond Moxiu Dam. The sign is faced so as to be visible by persons driving north.
- "DANGER, WATER MAY RISE RAPIDLY!" sign (8) located at the termination of Carry Brook access road, on the east side of the river next to the staircase leading down to the Kennebec Gorge.
- "DANGER OF DROWNING" sign (10) located at the head of the trail to the river in the vicinity of Chase Stream, west side of river.
- "DANGER OF DROWNING!" sign (11) located on a tree along the Carry Brook trail to Magic Falls.
- The Station Operator blows a siren when the Waste Gate is opened or when a unit starts running in order to warn people downstream.

2.3.2 Proposed Safety Devices

- Fifteen (3' x 3') signs explaining the dangers of multiple water releases from the Hydro Station (see Exhibit 1).

2.4 Recreation Areas

A boat launch, a picnic area, and a campground are located upstream less than 1/2 mile east of the spillway. Commercial whitewater rafting trips begin at the tailrace during the summer recreation season.

2.4.1 Existing Safety Devices

- Two "EMERGENCY RIVER ACCESS" signs (12) are located at the intersection of the Harris Station main access road and the Carry Brook Road and at the right fork on the Carry Brook Road.
- Harris Station Water Release Schedule, with schedule change panel, sign (21) located on the end of the railing around the operator parking area and the junction of the water access trail to the river. This is a special Danger/Informational sign that is posted during the rafting season only (April 1 to October 31).

2.4.2 Proposed Safety Devices

No additional safety devices are proposed for the recreation areas.

3.

Additional Items

Indian Pond is a large project in a remote and scenic setting. It is used for headwater fishing and boating. The major recreational use, however, is commercial whitewater rafting in the Kennebec Gorge. Private kayakers also use this river. The size of the dam is a major consideration in placing safety signs.

4.

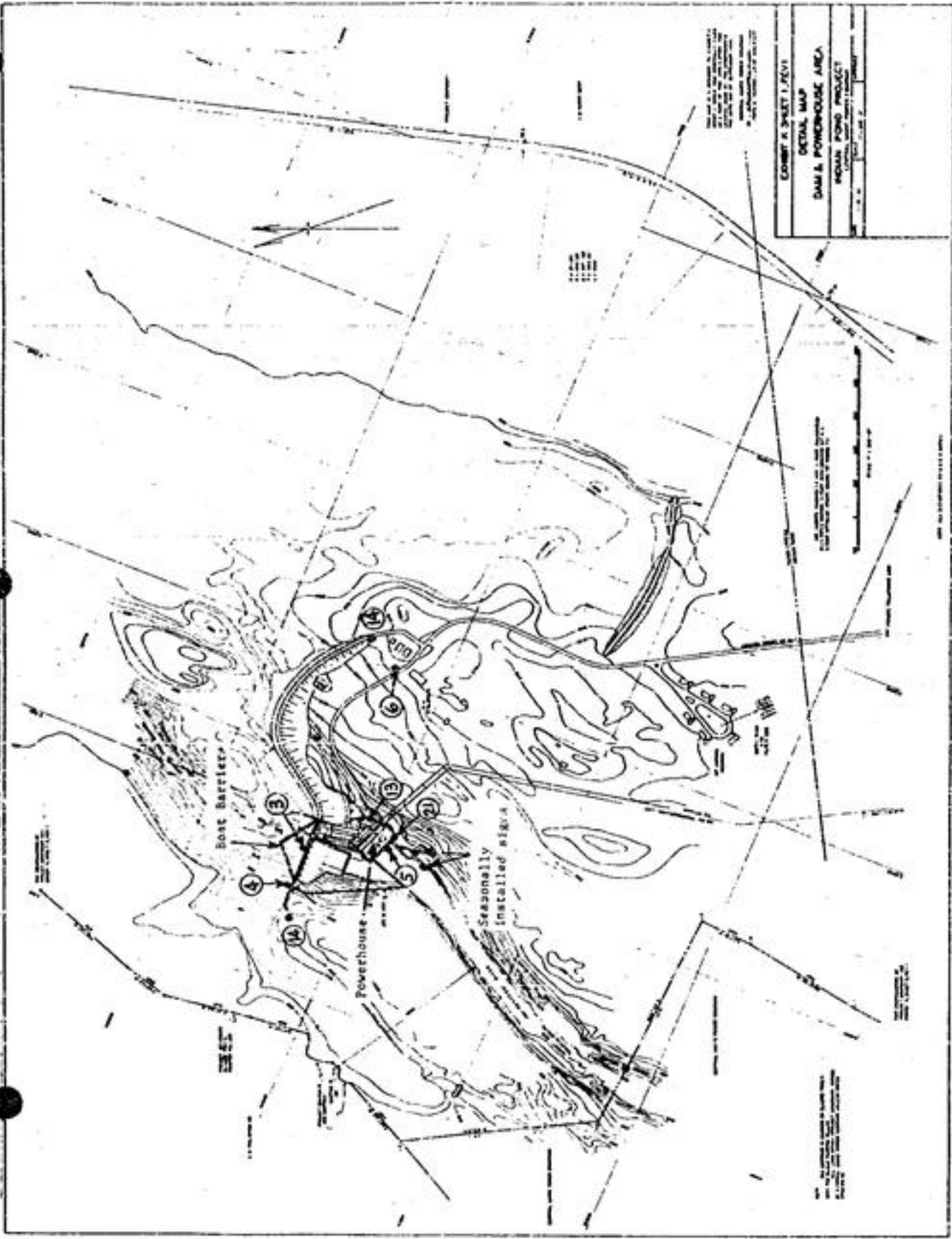
Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the rafting and fishing seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

7-1-50-2-11

COMBAT & SHIELD 1, REV 1
 DETAIL MAP
 DAM & POWERHOUSE AREA
 MOJAVE POND PROJECT
 1:50,000 SCALE
 1950



0786 0000

HARRIS PROJECT NO. 2142-ME

FISHERMEN SAFETY MEASURES

● Locations for placement of Kennebec Gorge safety signs.

Scale: 1" = 2miles

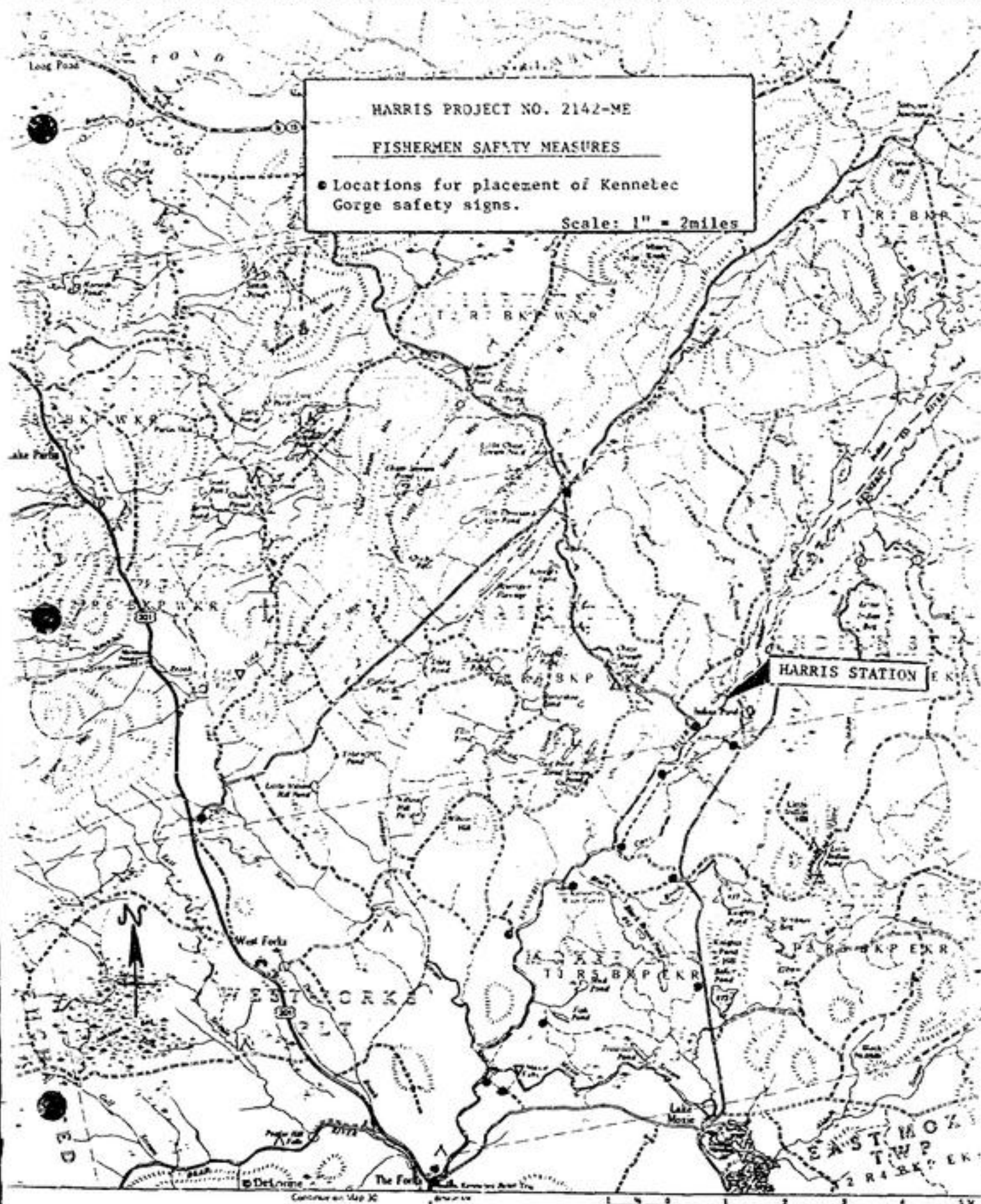


EXHIBIT 2

Shop Drawing

Work Order No. **11492**
 Job Name **CAT-FEC-SIGNS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **1 of 3**

For Shop Use only upon
 Customer Approval

Neokral
 SIGNAGE & SAFETY SIGNS
 1000 S. 10th St.
 Phoenix, AZ 85001

STD. CAMP WARNING SIGN
 COLORS, TYPESYLES & BORDERS
 PER A/S SPECS

For Installation at
 Each End of Dam

SIGNATURE COPY READS:
 "ANDROSOGGIN RESERVOIR COMPANY"

SIGNATURE COPY READS:
 "UNION WATER POWER COMPANY"

SIGNATURE COPY READS:
 "KENNEBEC WATER POWER COMPANY"

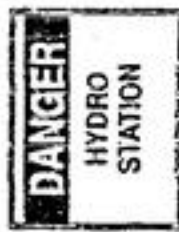
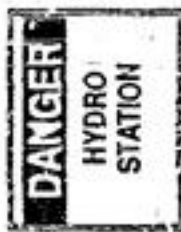
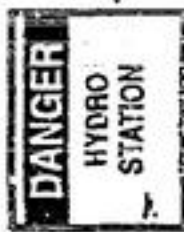
SIGNATURE COPY READS:
 "CENTRAL MAINE POWER COMPANY"

For Headpond
 Installation

2'-0" TYP.



For Downstream
 Installation



FACE LAYOUTS - S/F N/L - 080 NUM. SIGNS w/ VINYL COPY
 SCALES: 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign)
 Installed - \$75

Shop Drawing

Work Order No. 19492
 Job Name CMP - REC SIGNS
 Job Location VARIOUS
 Date 7-3-70
 Drawing No. 3 of 3

For Shop Use Only upon Customer Approval

0413

4'-0" TYP.

3'-0" TYP.



(1) REQ'D.



(2) REQ'D.

STD. CMP WARNING
SIGN COLORS, TYPE
STYLES & BORDERS N/A
A/B SPECS.



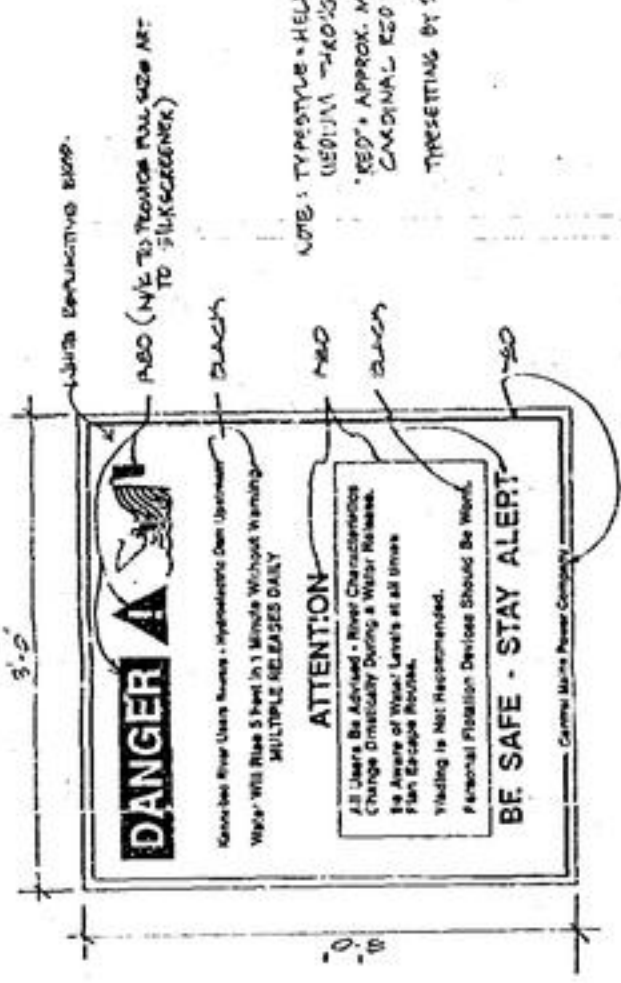
FACE LAYOUTS -- S/E N/L OBO NUM. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0" (2) TOTAL 3'-4" PANELS

TYPICAL SAFETY SIGNS
 VISIBLE FOR 300 FT.
 (Approximate Unit Cost Per Sign Installed - \$225)

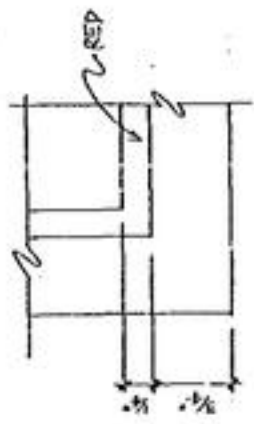
Neokraf
 Manufacturers of Signs and Forms

G.L.
 11/1/71
 11/1/71
 11/1/71
 11/1/71

1. W.K. v. 1.9
 2. Job No. 11009
 3. Job Description: KENNEBEC CORGE SAFETY SIGN
 4. Location: Kennebec River, ME
 Date: 11-1-71
 Drawing No. 1 of 1



NOTE: TYPESTYLE = HELVETICA
 (REGULAR WEIGHT)
 RED APPROX. MATCH GSP
 CARDINAL RED VINYL
 THRESHOLD BY SILKSCREENING



BORDER STRIPE DETAIL
 AT CORNER
 FULL ACTUAL SIZE

KENNEBEC CORGE SAFETY SIGN W. SILKSCREENING
 SCALE: 1/2" = 1'-0" (25) 1/2"

KENNEBEC CORGE SAFETY SIGN

HARRIS PROJECT NO. 2142-ME
FISHERMEN SAFETY MEASURES



KENNEBEC GORGE SAFETY SIGN

WARNING SIGNS - TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN
- S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR,
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

2 TWISTED STRANDS .11" ALUMINUM COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARE 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

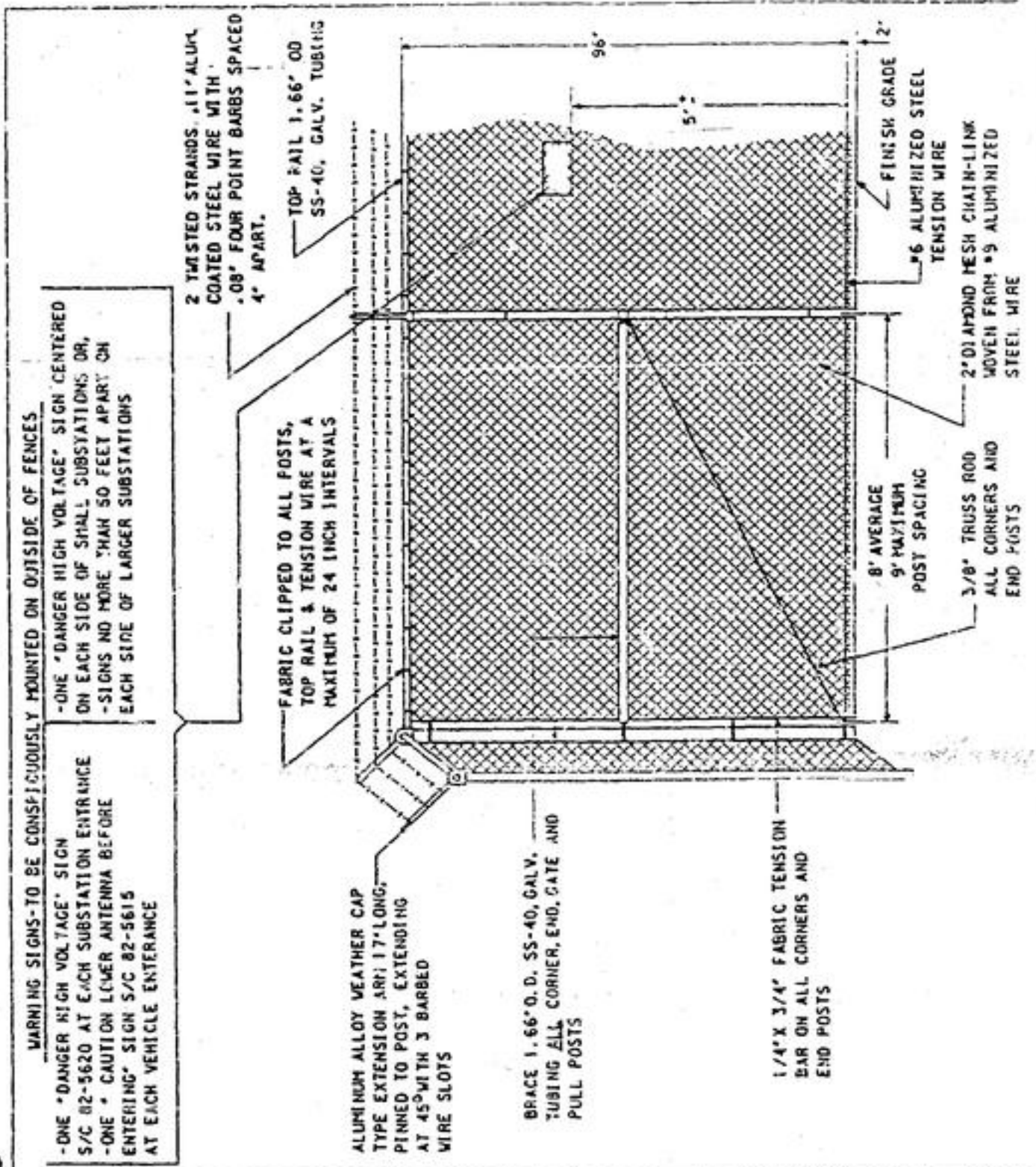
8" AVERAGE 9" MAXIMUM POST SPACING

3/8" TRUSS ROD ALL CORNERS AND END POSTS

FINISH GRADE

#6 ALUMINIZED STEEL TENSION WIRE

2" DIAGONAL MESH CHAIN-LINK MOVEN FROM #9 ALUMINIZED STEEL WIRE



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING
MATERIAL & STRUCTURAL
DETAILS

APPROVED: *ELK*
DATE: 10-23-89

SP
J. J. W.

I-C-2

BAR MILLS HYDRO PUBLIC SAFETY PLAN

BAR MILLS HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Bar Mills Project No. 2194 is located on the Saco River in York County, Maine. The Project dam and powerhouse are located in the towns of Buxton and Hollis. It consists of two concrete dams, concrete spillway structures, a 200 yard forebay canal, powerhouse, and appurtenant facilities.

The Bar Mills dam forms a riverine impoundment which at full pond elevation of 148.5 feet is approximately 5 miles long, has a surface area of 263 acres, a volume of 600 acre-feet and a shoreline of 13 miles. The area surrounding the project is rural with low rolling hills of less than 500 feet in height.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 626 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillway.
- Lights illuminating the gate structure.
- Three "DANGER, STAY BACK" signs (4,5 and 6) located on the walkway bridge across the canal, on the walkway bridge across the flashboard section, and between the canal walkway bridge and U.S. Route 4, respectively.
- A "DANGER, WATER MAY RISE RAPIDLY!" sign (7) is located on the east side of the canal spillway, facing upstream.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the substation, roof of the powerhouse, and crane.
- "DANGER, HIGH VOLTAGE" signs (10) are located on each side of the chain link fence surrounding the substation.
- Two "DANGER, HYDRO STATION" signs (11) are located on the gate to the station, on the west shore and on the gate to the flashboard bridge, on the west shore.

2.2.2 Proposed Safety Devices

- Cut the brush along the downstream security fence next to the crane by September 30, 1991.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Three "DANGER, WATER MAY RISE RAPIDLY!" signs (8 {2 signs} and 9) are located on a tree near the small sand beach area, on the concrete wall of the powerhouse, facing upstream, and on the powerhouse structure above the out flow, respectively.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Areas

A Canoe Portage is located on the west shore approximately 50 feet upstream of the intake canal. Also, the sand beach area by sign #8 is a public access swimming area.

2.4.1 Existing Safety Devices

- A "DANGER, PROCEED DOWN THE OPPOSITE SHORE" sign (2) located on the east bank, 300 feet above the diversion dam.
- A "DANGER, PROCEED DOWN THIS SHORE" sign (3) is located on the west shore, 300 feet upstream of the dam.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

3. Additional Items

Bar Mills is positioned in a small town environment. Current use is moderate at the Canoe Portage.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



SHEET NO. 1
 GENERAL PLAN
 DAM - POWERHOUSE - SUBSTATION
 AND RELATED FACILITIES AT
 [Location Name]
 [Date]
 [Scale]

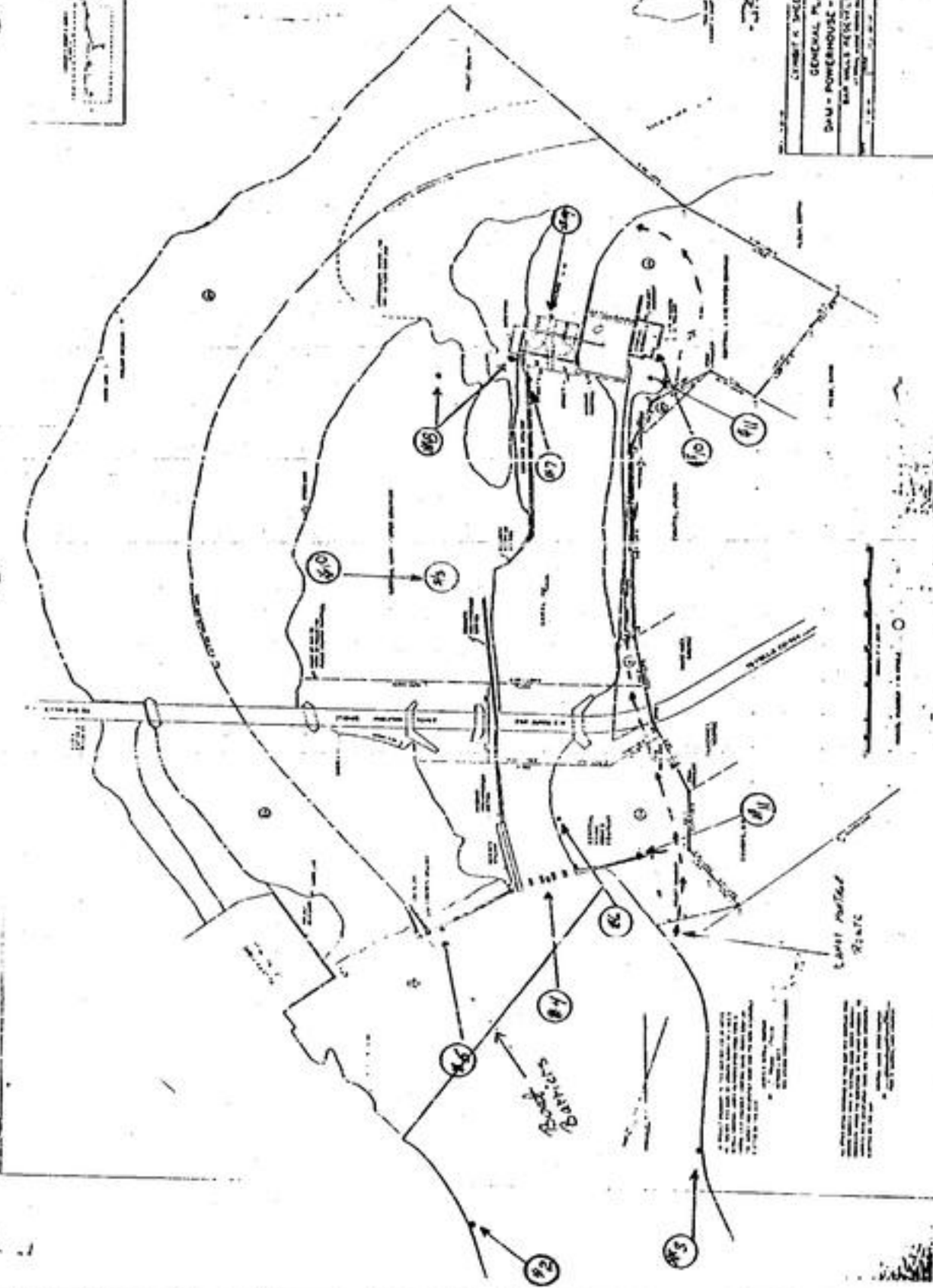


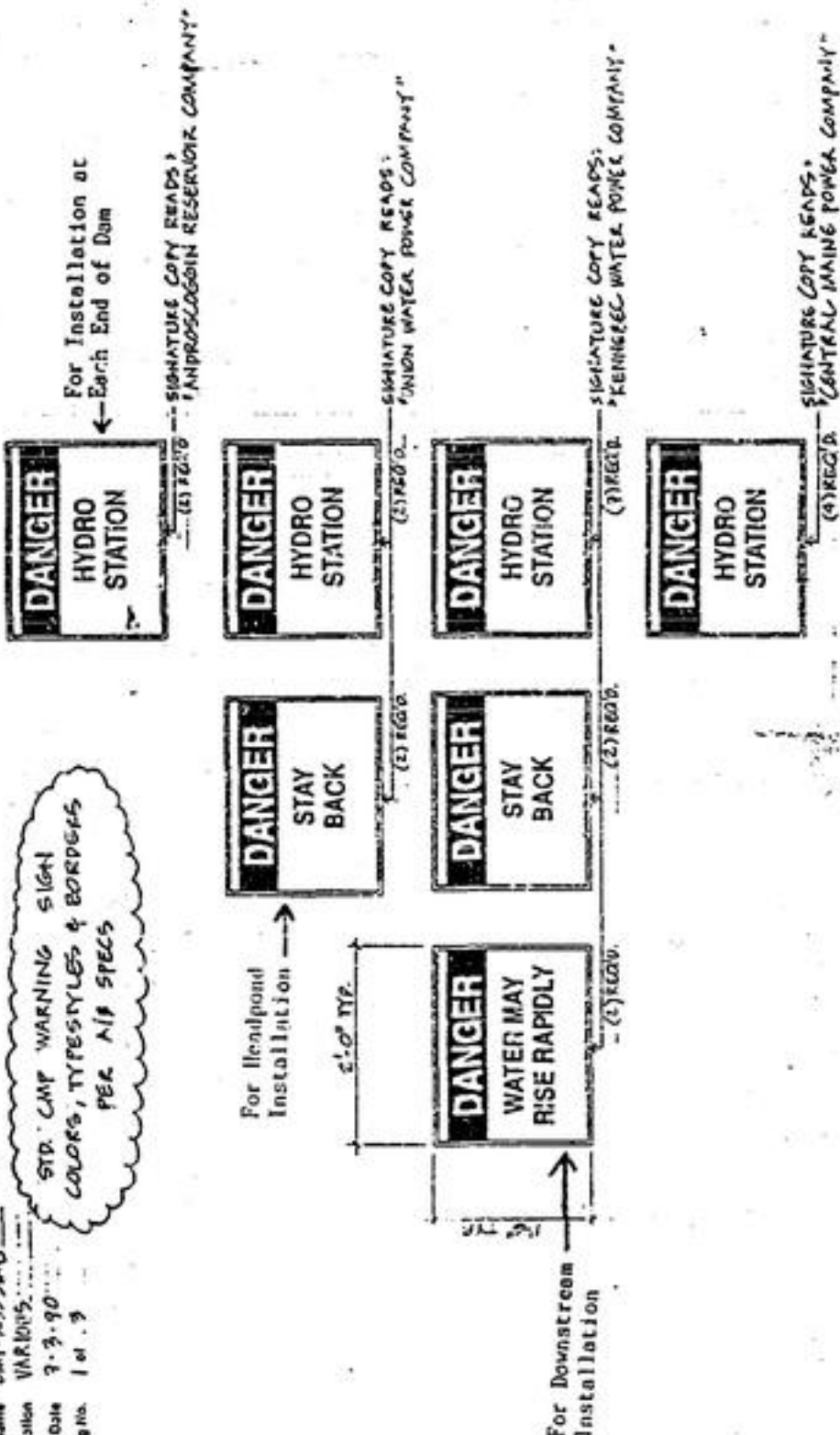
EXHIBIT 2

Shop Drawing

For Shop Use only upon Customer Approval

Check Order No. **1492**
 Job Name **CMP-251/5145**
 Job Location **VARIOUS**
 Date **9-3-90**
 Drawing No. **1 of 3**

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & BORDERS
 PER AIP SPECS



For Installation at
 ← Each End of Dam

FACE LAYOUTS - S/F N/L - ONE NUM. SIGN W/ MIN/COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign
 Installed - \$75)

Neokraf

Shop Drawing

Work Order No. 19492
Job Name CMP - REC-5645
Job Location VARIOUS
Date 7-5-90
Drawing No. 3 of 3

For Shop Use only upon
Customer Approval

Date:

4'-0" Ht.

3'-0" Wd.

For Headpond
Installation



STD. CMP WARNING
SIGN COLORS, TYPE,
STYLES & BORDERS PER
A/B SPECS.

FACE LAYOUTS -- S/F N/L ORO ALUM. SIGNS W/ VINYL COPY
SCALE: 1" = 1'-0"
(3) TOTAL 3'x4' PANELS

TYPICAL SAFETY SIGNS
VISIBLE FOR 300 FT.

(Approximate Unit Cost Per Sign
Installed - \$225)

COMPARE SIGN'S UNIFORMITY,
 AS READ THESE LAYOUTS

DANGER
 PROCEED
 DOWN OPPOSITE
 SHORE

* DOWN OPPOSITE II * (3) READ

DANGER
 STAY
 BACK

* STAY BACK II - CWP * (55) READ

DANGER
 WATER MAY
 RISE RAPIDLY

* WATER RISE II - CWP * (7) READ

NOTICE
 PROCEED
 DOWN THIS
 SHORE

* DOWN THIS II * (5) READ

DANGER
 STAY
 BACK

* STAY BACK II - BD * (2) READ

DANGER
 WATER MAY
 RISE RAPIDLY

* WATER RISE II - BD * (3) READ

4'-0" TYP

5'-0" TYP

ALL DRAWINGS TO BE
 800 ALUM, WHITE
 ONE SIDE, 1/8"

NOTES: 1" SIGN
 MATERIAL: ALUMINUM, 800
 FINISH: 100 4" SIGN - 1/8"

SIGNATURES OF CONTRACTOR
 OWNER OR BEYOND MAY

FACE LAYOUTS - S/F N/L .080 ALUM. SIGN'S
 SCALE: 1" = 1'-0" (80) 3'-4" BUNTS READ

WARNING SIGNS- TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR, -SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE "DANGER HIGH VOLTAGE" SIGN S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOW V. ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

2 TWISTED STRANDS #11 ALUM. COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 2 1/2 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBE WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

96"
5"
2"
FINISH GRADE STEEL
#6 ALUMINIZED STEEL TENSION WIRE
3" AVERAGE 1" MAXIMUM POST SPACING
2" DIAMOND MESH CHAIN-LINK WOVEN FROM #9 ALUMINIZED STEEL WIRE
3/4" TRUSS ROD ALL CORNERS AND END POSTS



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING MATERIAL & STRUCTURAL DETAILS

APPROVED: <i>ELK</i>	<i>GPE</i>	I-C-2
DATE: 10-23-89	<i>JKL</i>	

GULF ISLAND/DEER RIPS HYDRO PUBLIC SAFETY PLAN

GULF ISLAND/DEER RIPS HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Gulf Island/Deer Rips Project No. 2283 is located on the Androscoggin River in Androscoggin County, Maine. The project consists of two dams with impoundments, three powerhouses, and appurtenant facilities. These are the Gulf Island and Deer Rips dams and the Gulf Island, Deer Rips, and Androscoggin No. 3 powerhouses. The dams are each partially located in the cities of Lewiston and Auburn, Maine.

The Deer Rips and Androscoggin No. 3 powerhouses and forebays are located at the Deer Rips dam. The Deer Rips powerhouse is on the west side of the river with the Androscoggin No. 3 facility on the east side of the river. The Gulf Island powerhouse is also on the east side of the river and is integral with the Gulf Island dam.

The Gulf Island impoundment at full pond elevation of 262 feet extends upstream about 14.7 miles, has an area of approximately 2,862 acres, and a shoreline of 48 miles. The Deer Rips impoundment at the normal full pond elevation of 205.7 feet has an area of about 130 acres and a shoreline of 6 miles. The Androscoggin No. 3 facility operates directly off of the Deer Rips impoundment and does not have a separate dam or impoundment.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The maps in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 720 Foot Spillway at Gulf Island 738 Foot Spillway at Deer Rips 360 Foot Spillway at Androscoggin #3

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the Gulf Island spillway and the Deer Rips and Androscoggin #3 spillways.
- Light illuminating the spillway deck at the Gulf Island Hydro.
- Four "DANGER, STAY BACK" signs (3,4,5, and 6) are located at the Gulf Island Hydro on the dam railing, near the center of the intake structure; on the dam railing at the east end of the spillway; on the fence around the buildings at the west end of the spillway, facing the

headpond; and on the west shore on the point immediately upstream of the dam, respectively.

- Two "DANGER, HYDRO STATION GATES AND SPILLWAY DOWN STREAM, STAY BACK 500 FEET" signs (6A and 6B) are located on the small island and on the point of land on the east shore, opposite the small island, immediately upstream of the dam, respectively.
- Two "DANGER, STAY BACK!" signs (2) are located at the Deer Rips Hydro on the intake canal gatehouse and on the gatehouse annex facing upstream, respectively.
- A "DANGER, STAY BACK!" sign (3) is located at the Androscoggin #3 Hydro on the gate works gear cover.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillways.

2.2 Powerhouse Areas

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance and the substation at the Gulf Island Hydro; the island, substation, powerhouse entrance and the parking area at the Deer Rips Hydro; and the front and top of the powerhouse at the Androscoggin #3 Hydro.
- "DANGER, HIGH VOLTAGE" signs (11 and 8) are located on each side of the chain link fence surrounding the substations at the Gulf Island Hydro, the Deer Rips Hydro, and the Androscoggin #3 Hydro, respectively.
- A "DANGER, STAY BACK!" sign (13) is located on the east shore access gate at the Gulf Island Hydro.
- Three "DANGER, HYDRO STATION" signs (12,9, and 10) are located on the west shore access gate, on the dike at the Gulf Island Hydro; on the west side of the canal intake entrance, facing the shore at the Deer Rips Hydro; and on the first access fence gate to the Androscoggin #3 Hydro, respectively.

2.2.2 Proposed Safety Devices

Two additional "DANGER, STAY BACK" signs are planned for the west shore of the canal intake to the Deer Rips powerhouse.

2.3 Tailrace Areas

2.3.1 Existing Safety Devices

- Two "DANGER, WATER MAY RISE RAPIDLY!" signs (9 and 10) are located at the Gulf Island Hydro on a tree on the east shore below the powerhouse (opposite the sign on the west shore) and on the

west shore below the powerhouse (downstream of the powerline crossing), respectively.

A "DANGER, WATER MAY RISE RAPIDLY!" sign (6) is located at the Deer Rips Hydro on the west shore below the fisherman access.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Areas

The Turner boat launch is located approximately 10 miles upstream of the Gulf Island Hydro and a public boat ramp is located approximately 2 miles downstream of the Deer Rips Hydro. There are three day-use picnic site islands located in mid pond between the Turner Boat Launch and the Gulf Island dam.

2.4.1 Existing Safety Devices

No safety devices are located at the recreation areas.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation areas.

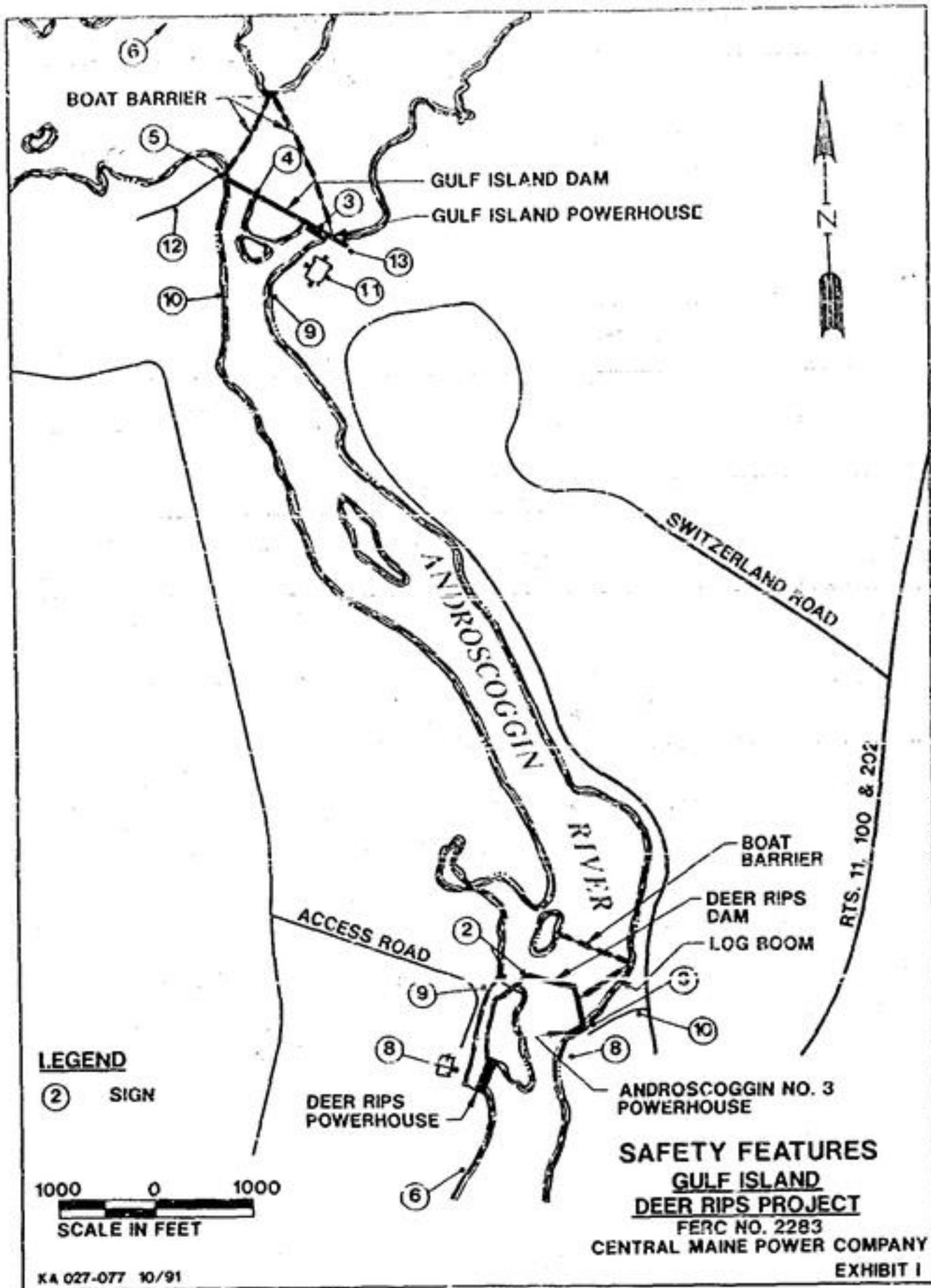
3. Additional Items

Gulf Island is a large project in a rural environment. Deer Rips and Androscoggin #3, which are actually a component of the Gulf Island Project, are also a large project in a rural environment. The size of the dams is a major consideration in placing safety signs.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



KA 027-077 10/91

0010-0000

EXHIBIT 2



Shop Drawing

Neokra
 10000
 10000
 10000

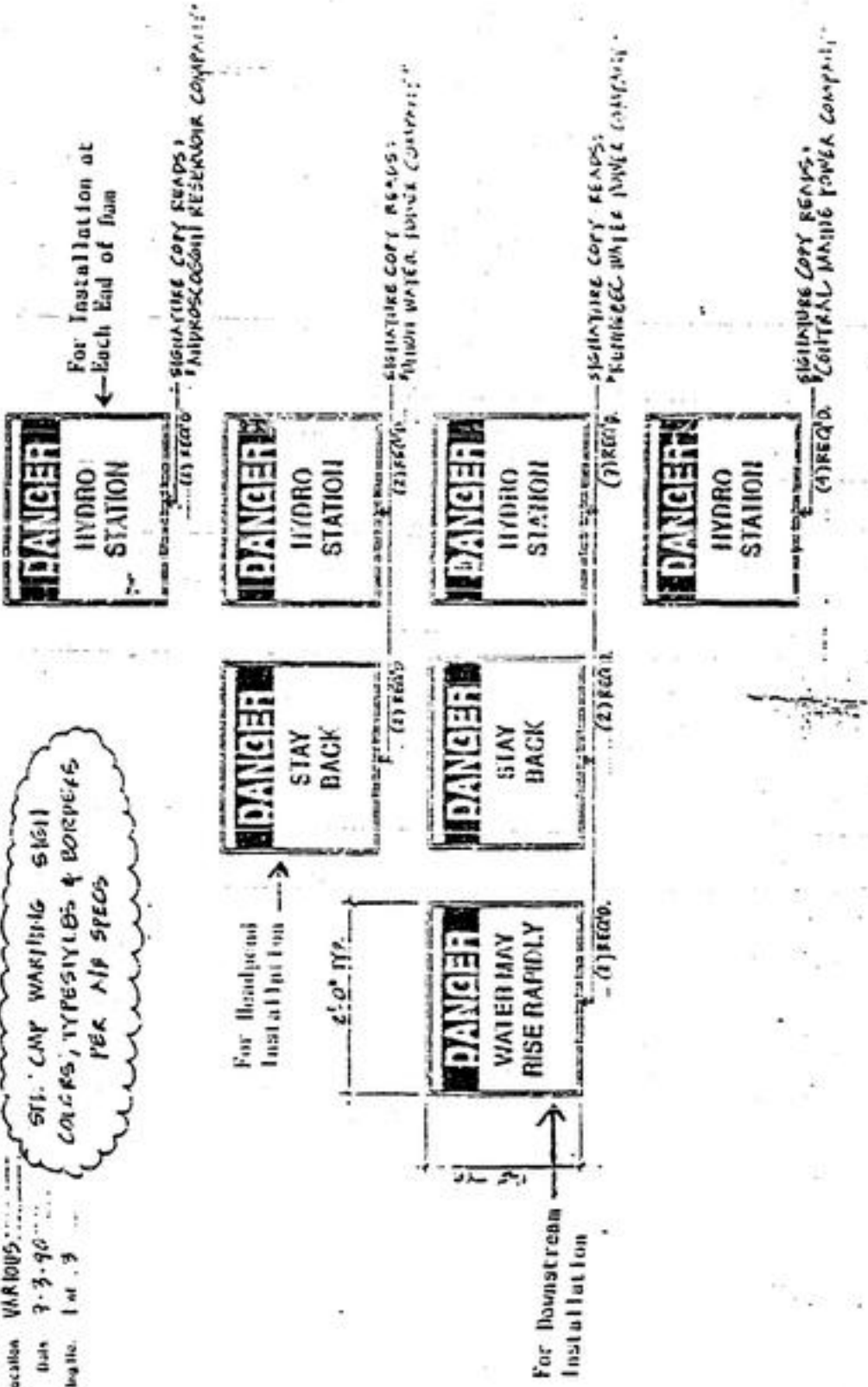
FOR EACH UNIT ONLY
 QUANTITY AVAILABLE

Job Name: **CAT-REC-5K15**
 Job Location: **VARIOUS**
 Date: **3-3-90**
 Drawing No.: **1 of 3**

ST. CAMP WARNING SIGNS
 CONES, TYPESTYLES & BORDERES
 PER AIP SPECS



Neokra
 10000
 10000
 10000



FACE LAYOUTS - S/F M - POC NOM. SIGNS w/ VISIBLE COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT

(Approximate Matt Size For
 Installed 17')

Shop Drawing

Work Order No. 19492
Job Name CMP - REG 51515
Job Location VARIOUS
Date 7-3-90
Drawing No 3 of 3

EST. SUPPLY ONLY FOR DISTRICT OFFICES

4'-0" TYP.

For Headpond Installation →

DANGER
STAY
BACK

(1) REQ'D.

DANGER
STAY
BACK

(1) REQ'D.

DANGER
WATER MAY
RISE RAPIDLY

(2) REQ'D.

DANGER
WATER MAY
RISE RAPIDLY

(2) REQ'D.

← For Roundroom Installation

STP. CMP WARNING SIGN COLORS, TYPE STYLES & BORDERS ARE SPEC.

FACE LAYOUTS -- SEE ILL. ORO N IMA SIGNS W VINYL COPY
SCALE 1" = 1'-0"

TYPICAL SAFETY SIGN VISIBLE FOR 100 FT

(Approximate Unit Cost Included)

3/8" THICK ROD 2" DIA AND IESII CHAIN-LINK

BRUNSWICK HYDRO PUBLIC SAFETY PLAN

BRUNSWICK HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Brunswick Project No 2284 is located on the Androscoggin River in the towns of Brunswick and Topsham, Cumberland and Sagadahoc Counties, Maine. The project structures include a non-overflow gravity bulkhead wall at the south (right) abutment, a powerhouse with a concrete intake, a concrete gravity spillway, a tainter gate spillway, a flashboard spillway, a non-overflow gravity bulkhead at the north (left) abutment, and a vertical slot fish ladder. The reservoir at full pond elevation of 39.4 feet extends upriver 4.5 miles and has a surface area of 300 acres and a shoreline of 9 miles.

The area immediately surrounding the project in Brunswick and Topsham is the "downtown" area of each municipality. Also adjacent to the project are urban residential and industrial land uses. The banks of the river are well populated for about a mile upstream. After this, the upstream region becomes quite rural and the population sparse until one reaches the town of Lisbon Falls. Immediately below the dam, the river is contained within steep banks. This is also well populated with most of the development located outside the flood plain. There are several islands located in the channel in the first three to four miles below the dam.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 270 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located approximately 1/2 mile upstream of the spillway.
- Two "DANGER, STAY BACK 500" signs are located on the tailings at the north and south ends of the dam structure.
- Lights illuminating the tainter gate structure.
- Two "DANGER, HYDRO STATION GATES AND SPILLWAY DOWNSTREAM, STAY BACK 500" signs (2 and 3) are located on the Island and Topsham shore upstream of the dam.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the parking lot area near the powerhouse, the substation, and the powerhouse entrance.
- "DANGER, HIGH VOLTAGE" signs (9) located on each side of the chain link fence surrounding the substation.
- Two "DANGER, HYDRO STATION" signs (8) are located at each end of the dam structure or fence, facing away from the dam.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Two "DANGER, WATER MAY RISE RAPIDLY" signs (6 and 7) are located on the downstream face of the fish ladder and on the Topsham shore below the dam by the Brunswick-Topsham Bridge.
- Boat barriers located downstream of the powerhouse.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

3. Additional Items

Brunswick is a large project in an urban environment. Current use of the river is

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

EXHIBIT 2

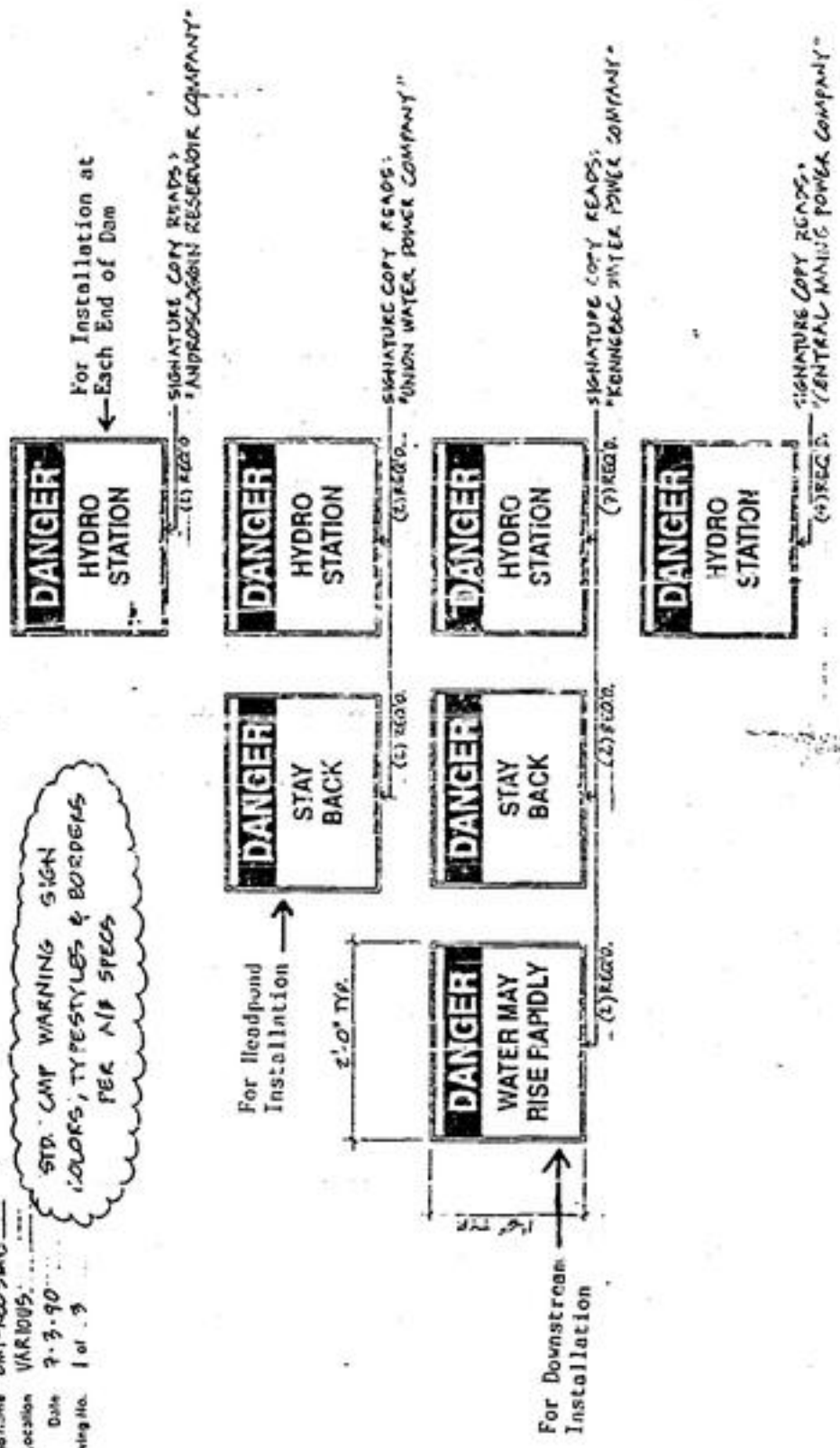
Shop Drawing

For Shop Use only upon Customer Approval

Work Order No. M492
Job Name CMP-REC SIGNS
Job Location VAR 1005
Date 7-3-90
Drawing No. 1 of 3

STD. CMP WARNING SIGN
COLORS, TYPESTYLES & BORDERS
PER NIP SPECS

Neokra
Manufacturers of Traffic and Safety Signs



FACE LAYOUTS - S/F N/L - ODD NUM. SIGNS w/ MIN/COPY
SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGNS
VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign Installed - \$75)



Shop Drawing

Work Order No. 19492
 Job Name CMP - REC SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. B. et 3

Ref Shop Use only upon Customer Approval

Date:

4'-0" TYP.

3'-0" TYP.

For Headpond Installation →



(1) REQ'D.



(1) REQ'D.



(2) REQ'D.



(3) REQ'D.

← For Downstream Installation

STD. CMY WARNING SIGN COLORS, TYPE, STYLES & BORDERS PER A/B SPECS.

Neokrai

TYPICAL SAFETY SIGNS VISIBLE FOR 300 FT.

(Approximate Unit Cost For Signs Installed - \$725)

FACE LAYOUTS -- 5/16 N/L DRG ALUM. SIGNS w/ VINYL COPY
 SCALE: 1" = 1'-0" (3) TOTAL 5' x 4' PANELS

WARNING SIGNS - TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

2 TWISTED STRANDS #11 ALUM.
COATED STEEL WIRE WITH
.09" FOUR POINT BANGS SPACED
4" APART.

TOP RAIL 1.66" O.D.
SS-40, G.V. TUBING

FABRIC CLIPPED TO ALL POSTS,
TOP RAIL & TENSION WIRE AT A
MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP
TYPE EXTENSION ARM 17" LONG,
PINNED TO POST, EXTENDING
AT 45° WITH 3 BARBED
WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV.
TUBING ALL CORNER, END, GATE AND
PULL POSTS

1/4" X 3/4" FABRIC TENSION
BAR ON ALL CORNERS AND
END POSTS

8' AVERAGE
9' MAXIMUM
POST SPACING

3/8" TRUSS ROD
ALL CORNERS AND
END POSTS

2" DIAMOND MESH CHAIN-LINK
MOVEN FROM #9 ALUMINIZED
STEEL WIRE

#6 ALUMINIZED STEEL
TENSION WIRE

FINISH GRADE 2"

96'

5'



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING
MATERIAL & STRUCTURAL
DETAILS

APPROVED: *JLK*

DATE: 10-23-89

WPE

JWS

I-C-2

SHAWMUT HYDRO PUBLIC SAFETY PLAN

SHAWMUT HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Shawmut Project No. 2322 is located on the Kennebec River in the towns of Fairfield and Benton, Maine. The project consists of a 23 foot high, 1,135 foot long concrete gravity dam, a reservoir, a forebay, and two powerhouses, one containing six turbine generating units and the other two turbine generating units and appurtenant equipment.

The reservoir at normal full pond elevation of 112 feet has a surface area of approximately 1,310 acres, a usable storage capacity of 4,960 acre feet and a shoreline of 31 miles.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 1135 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillway.
- Lights illuminating the gate structure.
- Three "DANGER, STAY BACK" signs (2,3, and 4) are located on the railing of the dam in front of the intake area; on the bridge above the dam, in the middle of the dam facing upstream; and on the concrete abutment next to the east shore, facing upstream, respectively.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance, substation, and parking area.
- "DANGER, HIGH VOLTAGE" signs (7) are located on each side of the chain link fence surrounding the substation.

- Two "DANGER, HYDRO STATION" signs (8) are located on the fence at the west end of the dam and on the concrete at the east end of the dam, respectively.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Two "DANGER, STAY BACK!" signs (5 and 6) are located on the east shore abutment facing downstream and on the west shore fence by the new spillway facing downstream, respectively.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Area

A fishing access is located below the flashboard section on the east shore of the river. Also, there is a boat access located on the west shore of the river, immediately upstream of the west shore boat barrier anchor point.

2.4.1 Existing Safety Devices

- Two "DANGER, STAY BACK" signs (4 and 5) are located on the concrete abutment next to the east shore, facing upstream and on the east shore abutment, facing downstream, respectively.
- One "DANGER, HYDRO STATION" sign (8) is located on the concrete at the east end of the dam.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

3. Additional Items

The Shawnut facility is located in a rural, small town environment. The headpond is used for fishing and boating and the tailrace is used for fishing. The size of the dam is a major consideration in placing safety signs.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

LAMBERT A. SHEET 1
 DETAIL MAP
 RESERVOIR
 PLANNING PROJECT
 LOCAL GOVERNMENT

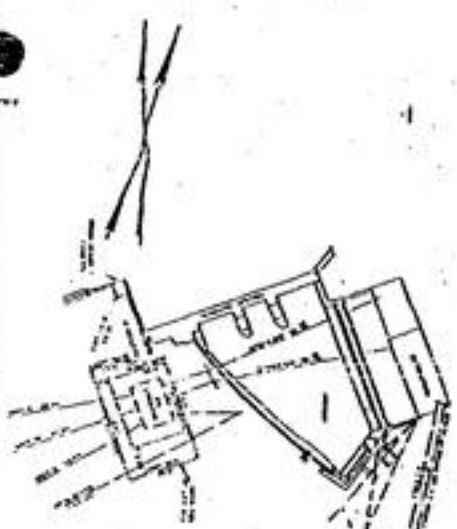
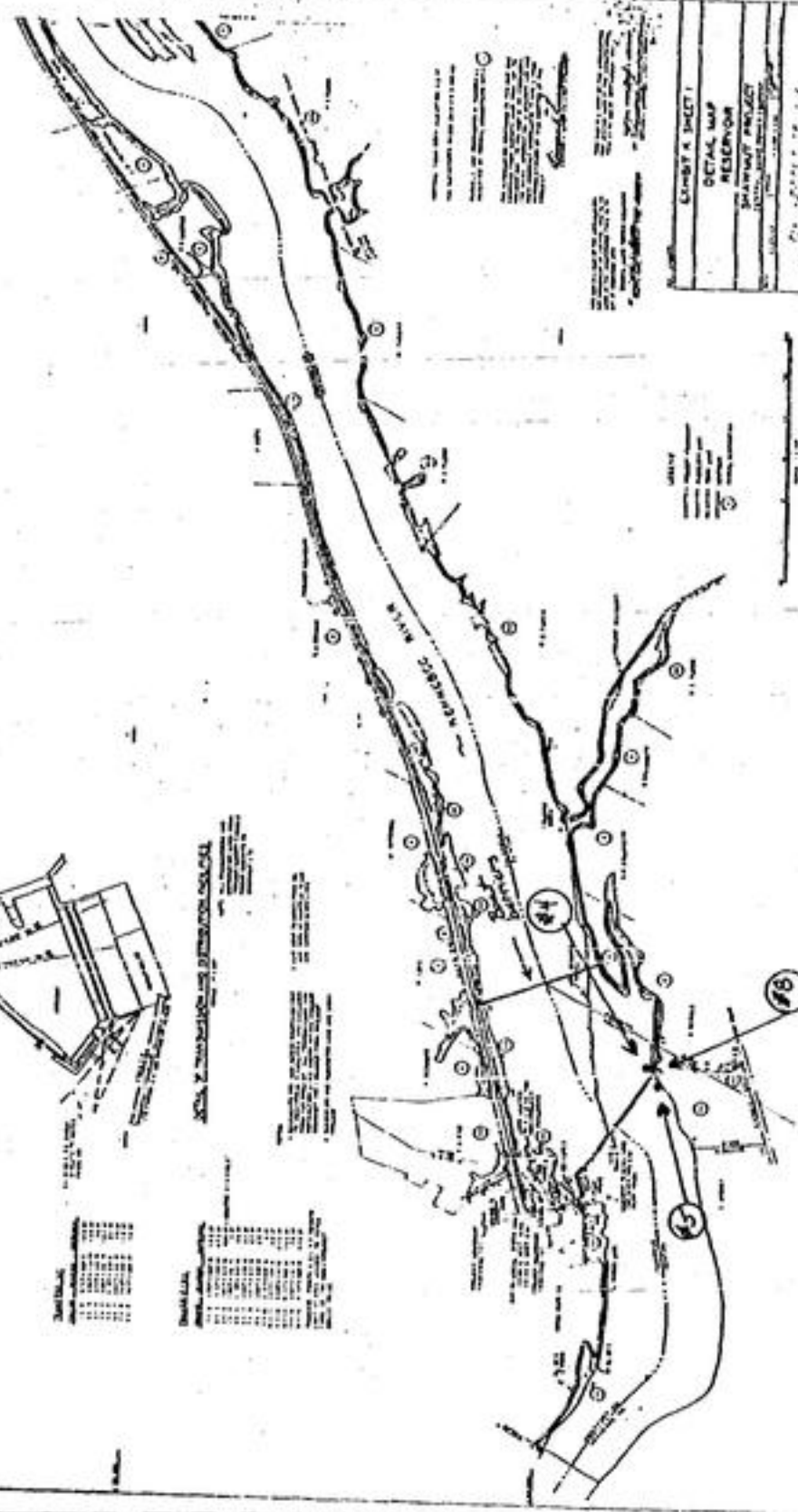


Table with 2 columns: Station, Elevation

1+00	100.00
1+10	100.00
1+20	100.00
1+30	100.00
1+40	100.00
1+50	100.00
1+60	100.00
1+70	100.00
1+80	100.00
1+90	100.00
2+00	100.00

Table with 2 columns: Station, Elevation

1+00	100.00
1+10	100.00
1+20	100.00
1+30	100.00
1+40	100.00
1+50	100.00
1+60	100.00
1+70	100.00
1+80	100.00
1+90	100.00
2+00	100.00

Notes:
 1. All elevations are in feet above mean sea level.
 2. The map shows the existing conditions as of the date of the survey.
 3. The proposed structures are shown with dashed lines.
 4. The flow direction is indicated by arrows.
 5. The map is based on the data furnished by the local government.

EXHIBIT 2

Shop Drawing

For Shop Use only upon Customer Approval

Neokral

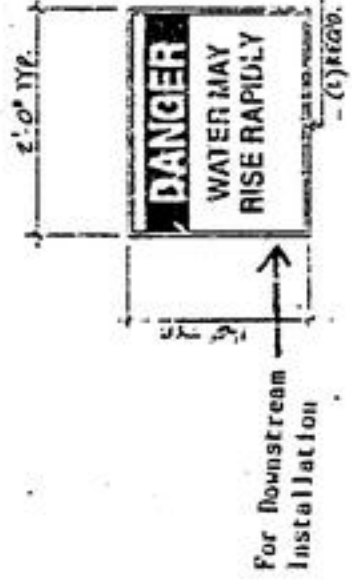
Work Order No. **11491**
 Job Name **CAT-REG SIGNS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **1 of 3**

STD. CAP WARNING SIGN
 COLORS, TYPESTYLES & BORDERS
 PER AIP SPECS

For Installation at
 Each End of Dam

SIGNATURE COPY READS:
 INDIANOSCOBIN RESERVOIR COMPANY

For Headpond
 Installation



SIGNATURE COPY READS:
 PENNAC WATER POWER COMPANY

SIGNATURE COPY READS:
 PENNAC WATER POWER COMPANY

SIGNATURE COPY READS:
 CENTRAL MINE POWER COMPANY

FACE LAYOUTS - S/P N/L - OAD NUM. SIGNS w/ VINYL COPY
 SCALES 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign
 Installed - \$15)

Shop Drawing

Work Order No. 19492
 Job Name CAMP - REC-SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

For Shop Use ONLY
 Customer Approval



(1) REQ'D.



(2) REQ'D.



(1) REQ'D.



(3) REQ'D.

STD. CAMP WARNING
 SIGN COLORS, TYPE
 STYLES & BORDERS IN
 A/E SPECS.

Neokraf

FACE LAYOUTS -- SEE N/L. ORG. A/I/M SIGNS W/ VINYL. COPY
 SCALE: 1" = 1'-0" (3) TOTAL 3'-4" PANELS

TYPICAL SAFETY SIGN
 VISIBLE FOR 300' +/-

(Approximate Unit Cost For
 Installed 1990)

WARNING SIGNS TO BE CONSPICUOUSLY POSITIONED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN ON EACH SIDE OF SMALL SUBSTATIONS OR, SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR, SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

2 TWISTED STRANDS, .11" ALUMINUM COATED STEEL WIRE WITH .008" FOUR POINT BARBS SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

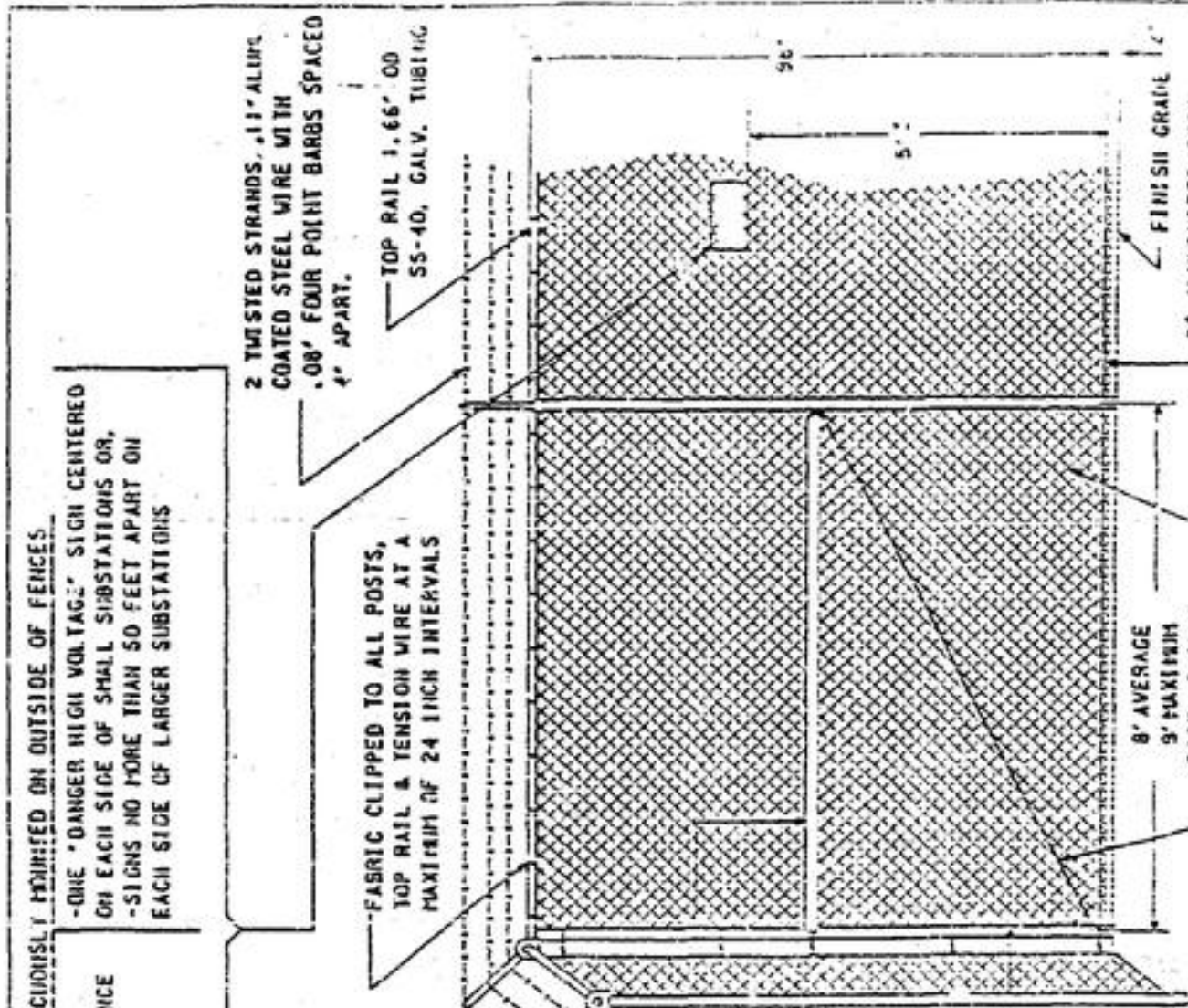
8' AVERAGE 9' MAXIMUM POST SPACING

3/8" TRUSS ROD ALL CORNERS AND

2" DIAGONAL MESH CHAIN-LINK WOVEN FROM #9 ALUMINUM ZINC

FINISH GRADE
#6 ALUMINIZED STEEL TENSION WIRE

TOP RAIL 1.66" O.D. SS-40, GALV. TUBING



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING MATERIAL & STRUCTURAL DETAILS

APPROVED: *[Signature]*
DATE: 11-23-79

I-C-2

WESTON HYDRO PUBLIC SAFETY PLAN

WESTON HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Weston Project No. 2325 is located on the Kennebec River in Somerset County, Maine, in the towns of Skowhegan, Norridgewock, Starks, and Madison. It is comprised of a powerhouse containing four generating units, two dams separated by an island, a 930-acre impoundment and appurtenant facilities.

The impoundment at a normal pond elevation of 156 feet has a gross volume of 18,600 acre-feet and a shoreline of 32 miles. The Project is a run-of-river Project and, as such, does not utilize storage capacity under normal operating conditions.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 shows the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 739 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the north and south channel dams.
- Lights illuminating the gate structure at the south channel dam and the hinge boards at the north channel dam.
- Four "DANGER, STAY BACK" signs (2,3,4, and 5) are located on the center of the route 201 bridge, south channel, facing upstream; on the center of the intake structure above the rails for the trash scoop; above the north channel dam, on the south bank where the transmission line crosses; and on the north bank where the transmission line crosses, respectively.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance and the substation.
- "DANGER, HIGH VOLTAGE" signs (9) are located on each side of the chain link fence surrounding the substation.
- Four "DANGER, HYDRO STATION" signs (10,11,12, and 13) are located on the post along the guard rail on the south side of the access to the powerhouse; on the south end of the south channel spillway structure; on the gate of the fence on the north side of the north channel dam; and on the gate of the fence on the south side of the north channel dam, respectively.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Two "DANGER, STAY BACK!" signs (5 and 6) are located on the south channel dam, the 5th abutment from the south shore, and on the railing above the north channel dam, respectively.
- A "DANGER, WATER MAY RISE RAPIDLY" sign (7) is mounted above the outflow on the powerhouse side, facing downstream.
- An automatic siren blows when the tainter gate at the north channel dam opens to warn people downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Area

A boat launch is located at the Oosoola Park upstream of the dam. The Park is provided by the Town of Norridgewock.

2.4.1 Existing Safety Devices

No safety devices are located at the recreation area.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

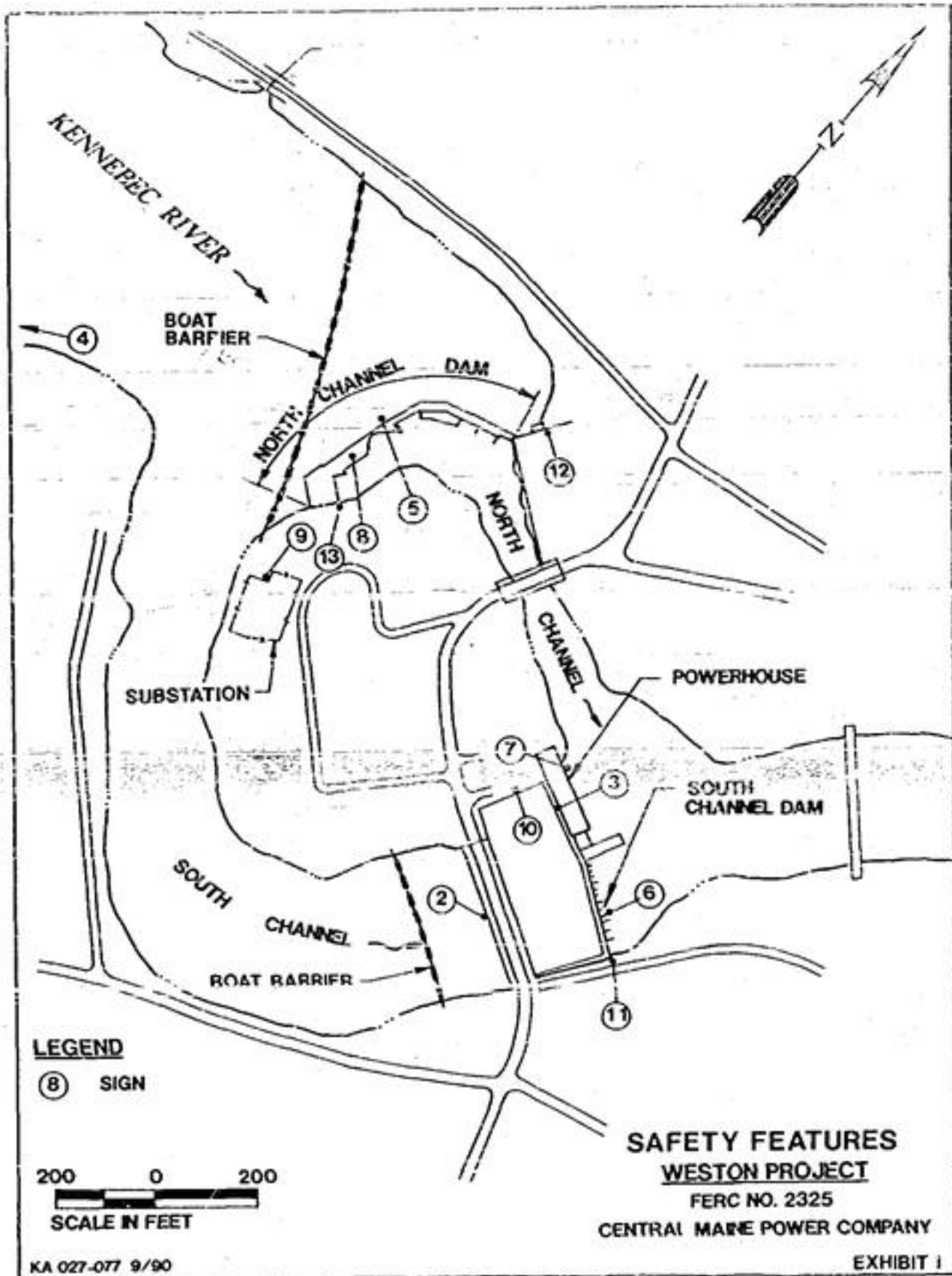
3. Additional Items

Weston is a large project in an urban environment. The headwater is used for fishing and boating and sightseeing at the falls is popular. Both headpond and tailrace use are anticipated to increase. The size and location of the dam (immediately downstream from a traffic bridge) are major considerations in placing safety signs.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



0839 0000

EXHIBIT 2

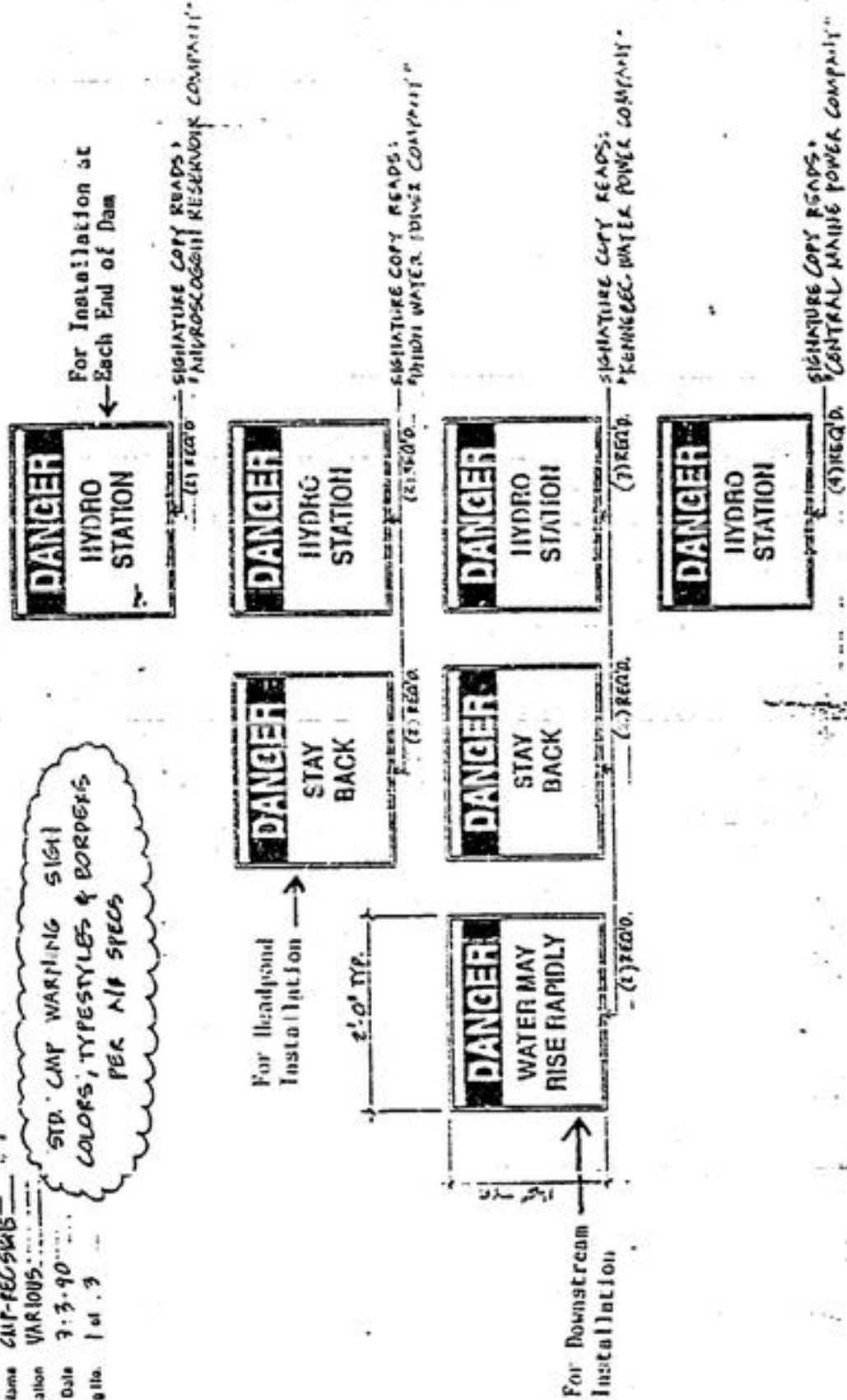
Neoki

For Shop Use Only
Customer Approval

Shop Drawing

Work Order No. **11492**
Job Name **CMT-FEC SIGNS**
Job Location **VARIOUS**
Date **7-3-90**
Drawing No. **1 of 3**

STD. CMP WARNING SIGN
COLORS, TYPESTYLES & BORDERS
PER A/E SPECS



FACG LAYOUTS - 5/F N/A - 000 NUM. SIGNS W/VINYL COPY
SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGNS
VISIBLE FOR 100 FT.

(Approximate Unit Cost For Installed)

Shop Drawing

Work Order No. 19492
 Job Name CMP - REC-SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No 3 of 3

Fit Sign to Only Upon
 Distorted Alignment

4'-0" TYP.

DANGER

STAY
 BACK

(1) REQ'D.

For leadpond
 Installation →

DANGER

WATER MAY
 RISE RAPIDLY

(2) REQ'D.

← For Downstream
 Installation

DANGER

STAY
 BACK

(1) REQ'D.

DANGER

WATER MAY
 RISE RAPIDLY

(3) REQ'D.

Neokro

Manufacturers of Safety Signs and Markings

STD. CMP WARNING
 SIGN COLORS, TYPE
 STYLES & BORDERS IN
 A/C SPEC.

FACE LAYOUTS... SEE ILLU. OF O.A. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 300 FT.

Approximate Unit Cost Per
 Foot of Sign

WARNING SIGNS-TO BE CONSPICUOUSLY PLACED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTEENRIA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR, SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

2 TWISTED STRANDS, .11" ALUMINUM COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4' APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PIERCED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TYPING ALL CORNER, END, GATE AND PILL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

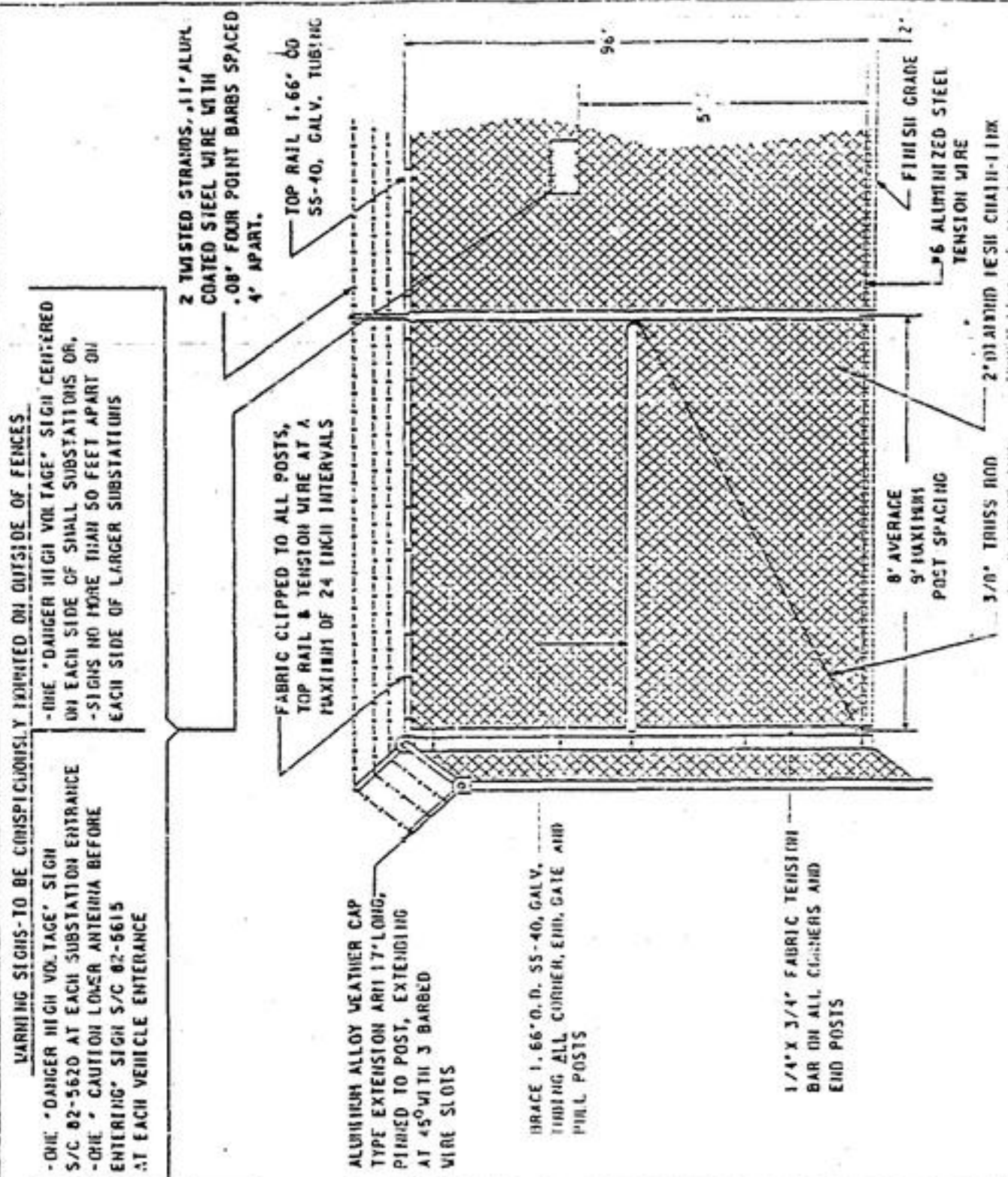
8' AVERAGE 9' MAXIMUM POST SPACING

3/8" TRUSS ROD

2" DIAMETER TENSILE CHAIR-111K

FINISH GRADE
#6 ALUMINIZED STEEL TENSION WIRE

TOP RAIL 1.66" O.D. SS-40, GALV. TYPING



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING MATERIAL & STRUCTURAL DETAILS

APPROVED: [Signature] DATE: 10-1-72 I-C-2

0843 0000

WYMAN HYDRO PUBLIC SAFETY PLAN

WYMAN HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Wyman Project No. 2329 is located on the Kennebec River, in Somerset County, Maine, about a mile upstream of the village of Bingham. It consists of a powerhouse, a 3,246 foot long dam, an impoundment, and appurtenant facilities. The Project dam and powerhouse are located in the town of Mcsow and Pleasant Ridge Plantation, Maine.

The Project boundary extends 1.4 miles downstream of the dam into Bingham and Concord Township and encompasses the tailrace and other project related land holdings. The Project reservoir is 14.4 miles long, extending upriver to Caratunk Plantation and Carrying Place Township. The reservoir is a deep, steep-sided lake, up to a mile and a half wide, with a gravel-cobble-boulder shoreline substrate. The reservoir at full pond elevation is 485 feet, has a surface area of 3,240 acres and a shoreline of 36 miles.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 430 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillway.
- A "DANGER, STAY BACK" sign (4) is located on the west shore, one third of the way across the concrete portion of the dam.
- A "DANGER, STAY BACK" sign (5) is located on the dam, midway between the east end and the center structure.
- Lights illuminating the gate structure.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- "DANGER, HIGH VOLTAGE" signs (9) are located on each side of the chain link fence surrounding the substation.
- Two "DANGER, HYDRO STATION" signs (10) are located at each end of the dam structure or fence, facing away from the dam.
- Lights illuminating the powerhouse entrance, parking area, and substations.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Four "DANGER, WATER MAY RISE RAPIDLY" signs (6 [two signs], 7, and 8) are located toward the west end of the intake structure (bolted to the concrete), on the west end of the dam, on the southern most Transmission line crossing below the powerhouse, and on the west shore facing the access road to the river, respectively.
- The Station Operator blows a siren when the automatic gates are opened or when a unit starts running in order to warn any people downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Areas

A boat launch is located 1 mile upstream of the spillway. Also located upstream is a municipal swimming area.

2.4.1 Existing Safety Devices

There are no safety devices at the recreation areas.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation areas.

3. Additional Items

Wyman is a large project in a rural environment. The headpond is used for headwater fishing and boating. The size of the dam is a major consideration in placing safety signs.

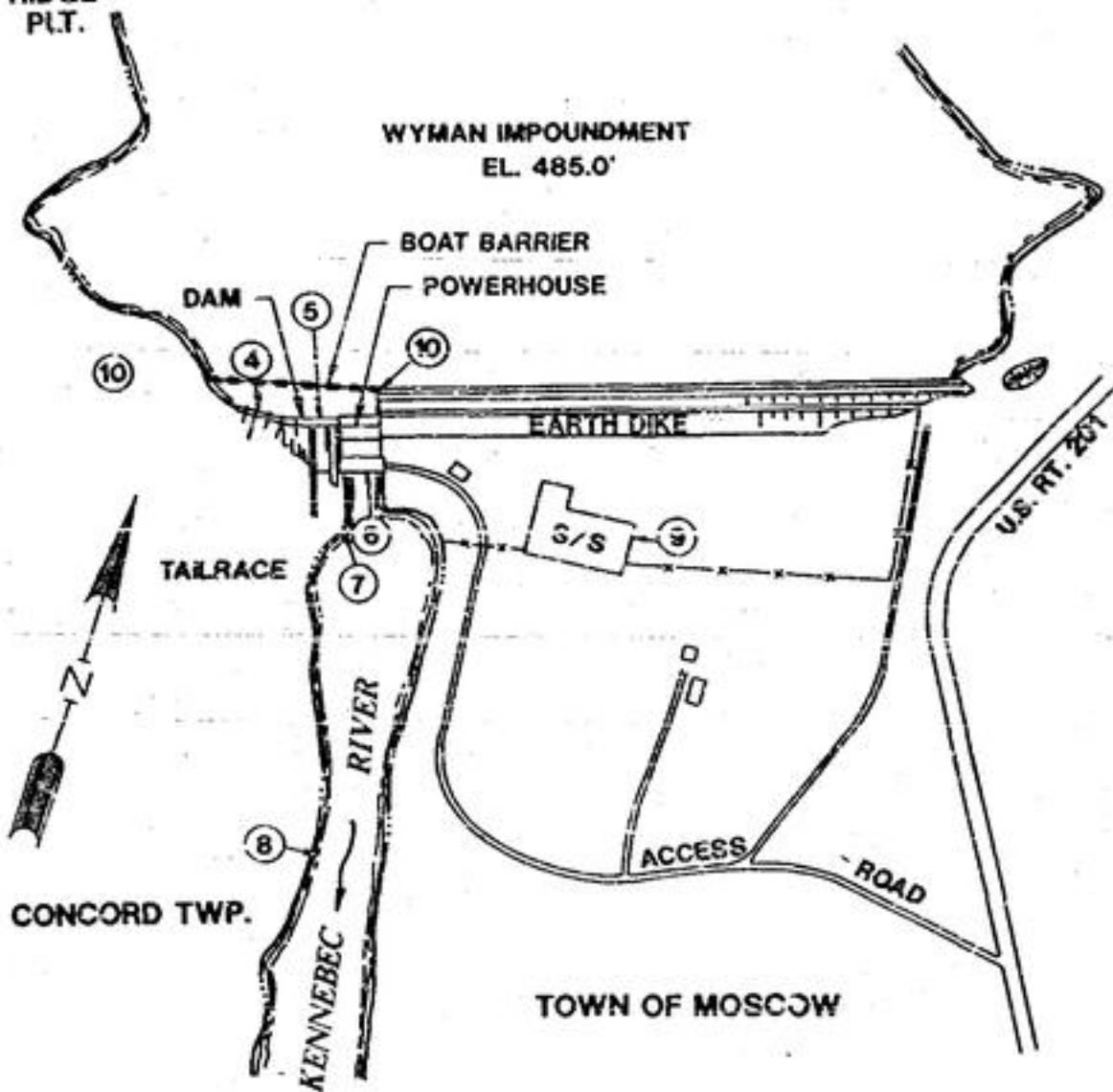
4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

PLEASANT
RIDGE
PLT.

WYMAN IMPOUNDMENT
EL. 485.0'



LEGEND

S/S NON-PROJECT SUBSTATION

⑦ SIGN

**SAFETY FEATURES
WYMAN PROJECT**

FERC NO. 2329

CENTRAL MAINE POWER COMPANY

EXHIBIT I

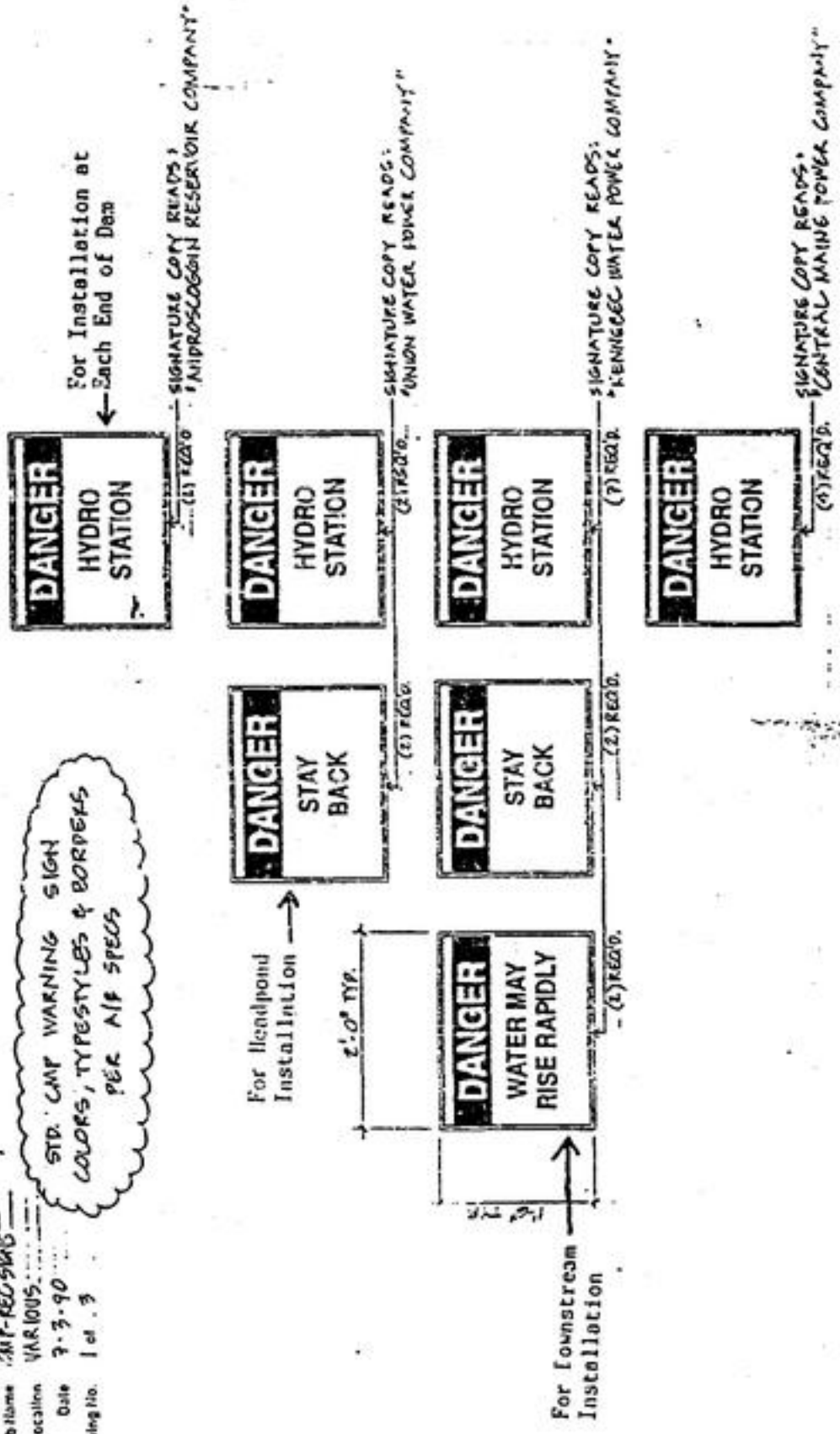
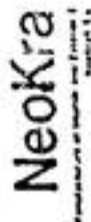
EXHIBIT 2

Shop Drawing

For Shop Use only upon Customer Approval

Work Order No. **1492**
 Job Name **CAF-REG-SWIS**
 Job Location **VARIOUS**
 Date **3-3-90**
 Drawing No. **1 of 3**

STD. CAP WARNING SIGN
 COLORS, TIFESTYLES & BORDERES
 PER AIF SPECS



FACE LAYOUTS - S/F N.E. 080 NUM. SIGNS w/ VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign)
 Installed - \$75)



Shop Drawing

Work Order No. 19492
 Job Name CWP - REC SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

For Shop Use only upon Customer Approval

Outlet

4'-0" TYP.



(1) REQ'D.

For Headpond Installation →

3'-0" TYP.



(2) REQ'D.

← For Downstream Installation



(1) REQ'D.



(3) REQ'D.

STD. CWP WARNING SIGN COLORS, TYPE, STYLES & BORDERS PER A/C. SPECS.

Neokral

Manufacturers of Safety Signs and Materials Since 1964

FACE LAYOUTS -- SEE N/C. OFD. ALUM. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0" (7) TOTAL 5'x4' PANELS

TYPICAL SAFETY SIGNS VISIBLE FOR 100 FT.

(Approximate Jolt Cost Per Sign Installed - \$225)

WARNING SIGNS-TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN
- S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR, -SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

2 TWISTED 3-STRANDS, .11" ALUMINUM COATED STEEL WIRE WITH .09" FOUR POINT BARBS SPACED 4' APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNERS, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

8" AVERAGE 9" MAXIMUM POST SPACING

3/8" TRUSS ROD ALL CORNERS AND

2" DIAMOND MESH CHAIN-LINK WOVEN FROM #9 ALUMINIZED STEEL WIRE

#6 ALUMINIZED STEEL TENSION WIRE

2"

96"

5'-2"

FINISH GRADE

TOP RAIL 1.66" O.D. SS-40, GALV. TUBING



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING
MATERIAL & STRUCTURAL
DETAILS

APPROVED: *JLK* *BPE*
DATE: 10-23-77 *Pow*

I-C-2

WILLIAMS HYDRO PUBLIC SAFETY PLAN

WILLIAMS HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Williams Project No. 2335 is located on the main stem of the Kennebec River at Caratunk Falls in the towns of Embden and Solon, Somerset County, Maine. It has a drainage area equal to 2720 square miles and the reservoir extends upriver 6.75 miles. The reservoir at full pond elevation of 320 feet has a surface area of 446 acres, a volume of 3,650 acre-feet and a shoreline of 11 miles.

The part of the river within the Project's boundary is bounded by steep forested terrain in the lower 2/3 of the reservoir. In the upper 1/3 of the Project's boundary, the river valley widens to include a broad flood plain on the westerly shore (farmland) and about 4 islands in the river. The areas directly upstream and downstream of the Project are rural and sparsely populated.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 shows the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 528 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located approximately 200 yards upstream of the spillway.
- Three "DANGER, STAY BACK" signs (6, 7, and 8) are over the eastern most tainter gate by the railroad bridge, facing upstream; on the railroad bridge over the canal intake, and on the west shore by the canal intake area, respectively.
- Lights illuminating the railroad bridge and gate structures.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance, parking area, and substations.
- "DANGER, HIGH VOLTAGE" signs (3) are located on each side of the chain link fence surrounding the substations.
- Two "DANGER, HYDRO STATION" signs (10 and 10A) are located on the east shore next to the railroad bridge and on the west shore access road gate at the top of the hill.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Four "DANGER, WATER MAY RISE RAPIDLY!" signs (3,4,5, and 5A) are located on the east side of the powerhouse facing the east shore, on the east side of the river by the tainter gate, facing downstream, above the out-flow on the powerhouse and on the east shore just upstream of the canoe portage.
- A horn sounds when the #1 gate starts to rise. This horn alerts the operator and any visitors near the tailrace.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Areas

A canoe portage take-out is located 600 feet from the dam. The Canoe Portage Trail extends toward the dam, within 100 feet, before it turns down river to the put-in. The Boat Launch is located approximately 600 feet upstream of the Canoe Portage take-out. A snowmobile trail travels over the railroad bridge and adjacent to the substations.

2.4.1 Existing Safety Devices

- A "DANGER, STAY BACK, CANOE PORTAGE" sign (2) is located on the log crib opposite the canoe take-out.

Two "DANGER, SLOW" signs (11) are located on both ends of the railroad bridge gates (for winter snowmobilers).

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation areas.

3. Additional Items

Williams is a large project in a natural setting near a small town. The headpond is used for headwater fishing and boating. Both headpond and tailrace use are anticipated to increase. This area is also used by snowmobilers and bicyclists and off-road vehicle enthusiasts.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the boating and fishing seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

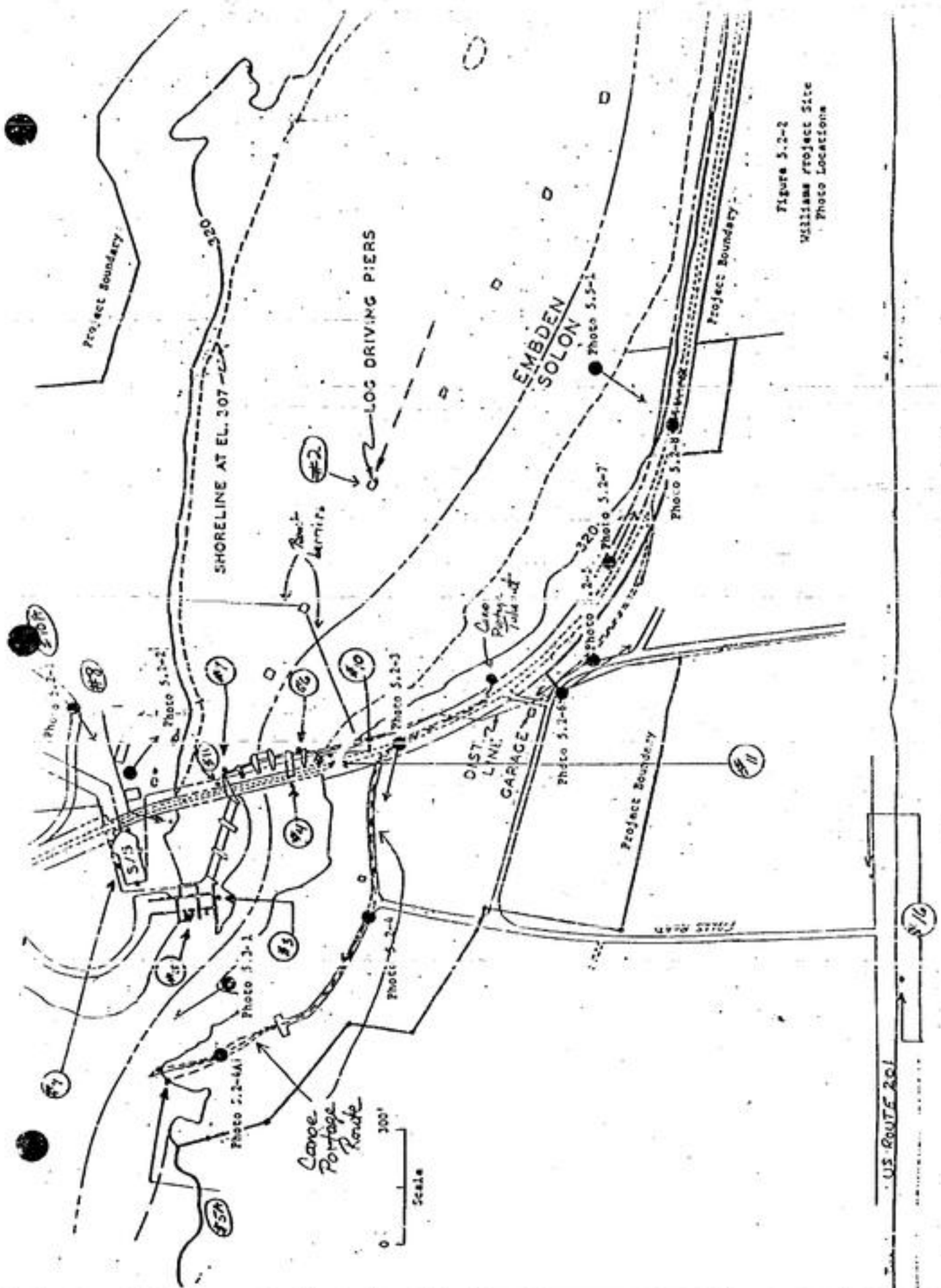


Figure 5.2-2
Williams Project Site
Photo Locations

EXHIBIT 2

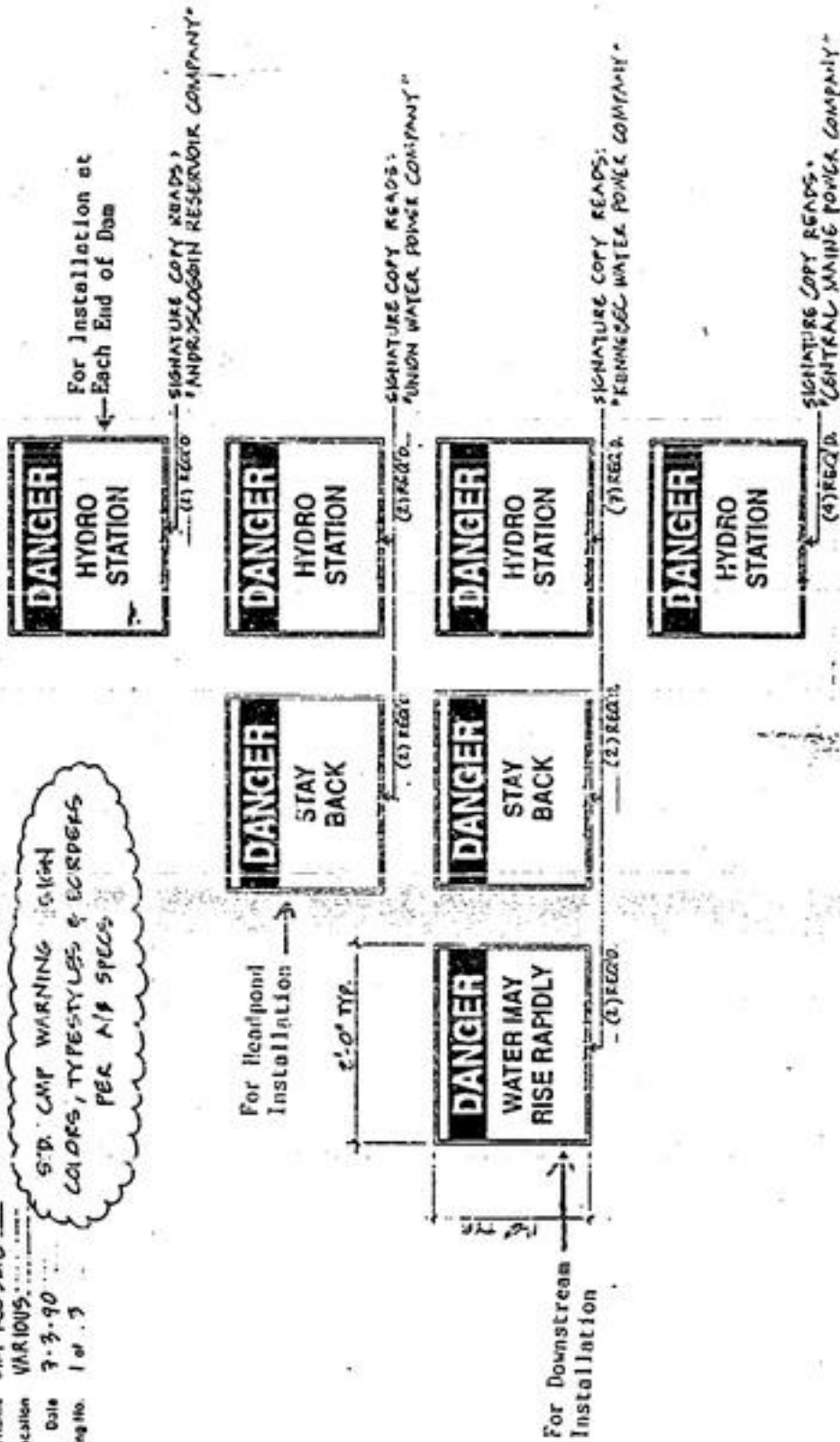
Shop Drawing

Visit Order No. **1492**
 Job Name **CAF-REG-SKIS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **1 of 3**

For Shop Use Only Upon
 Customer Approval

S.D. CMP WARNING SIGN
 COLORS, TYPESTYLES & ECRPERS
 PER A/B SPECS

Neokral
MANUFACTURER OF SAFETY SIGNS AND EQUIPMENT SINCE 1958



FACE LAYOUTS - S/F N/L 000 NUM. SEAMS w/ VINYL COPY
 SCALES 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

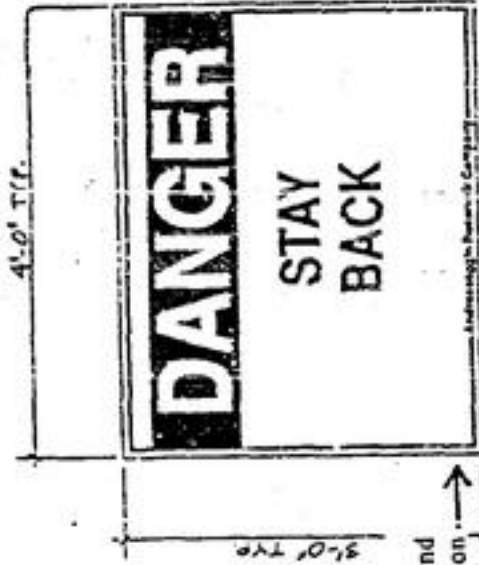
(Approximate Unit Cost Per Sign)
 Installed - \$75

0861 0000

Shop Drawing

Work Order No. 19492
 Job Name CMP - REC SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

For Shop Use Only upon Customer's Approval



(1) REQ'D.



(2) REQ'D.



(1) REQ'D.



(2) REQ'D.

STD. CMP WASHING
SIGN COLORS, TYPE
STYLES & BORDERS PER
A/B SPECS.

Neokrai

Manufacturers of Signs and More Than 100
Other Products

FACE LAYOUTS -- SEE N/C ORO PLUM SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 300 FT.

(Approximate Unit Cost for 10
 Installed -- \$225)

WARNING SIGNS-TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR, -SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE "DANGER HIGH VOLTAGE" SIGN S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

2 TWISTED STRANDS .11" ALUM. COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4' APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BAREED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

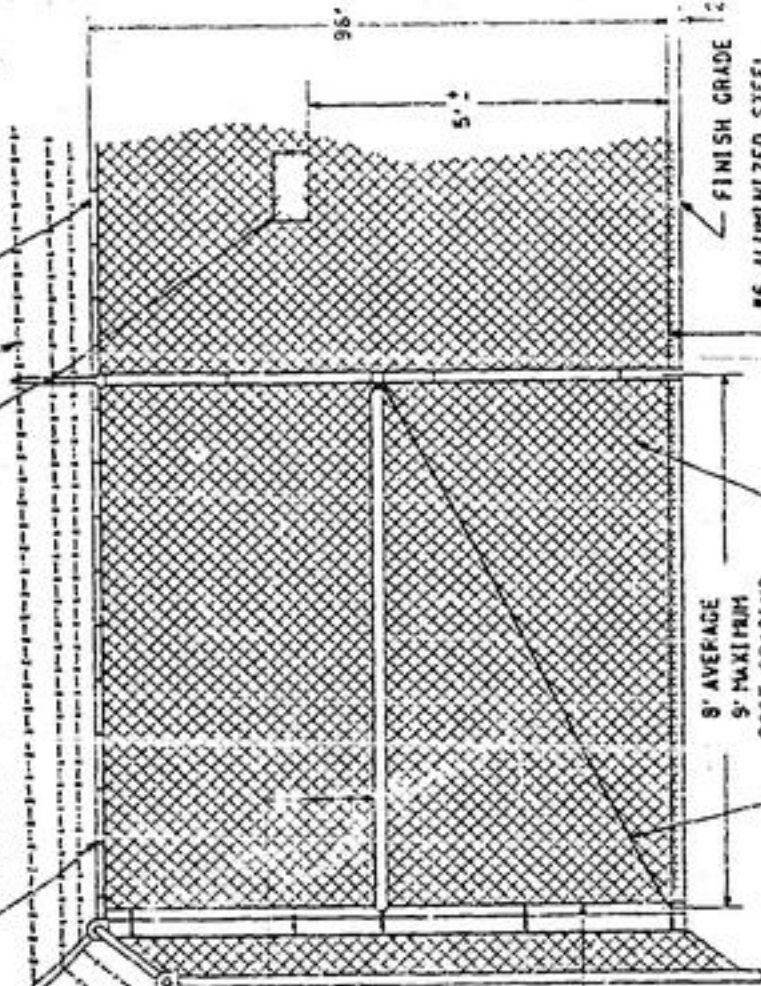
8' AVERAGE 9' MAXIMUM POST SPACING

3/8" TRUSS ROD ALL CORNERS AND END POSTS

2" DIAMOND MESH CHAIN-LINK MOVEN FROM #9 ALUMINIZED STEEL WIRE

FINISH GRADE #6 ALUMINIZED STEEL TENSION WIRE

TOP RAIL 1.66" O.D. SS-40, GALV. TUBING



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING
MATERIAL & STRUCTURAL
DETAILS

APPROVED: *[Signature]*
DATE: 10-23-77

[Signature]
[Signature]

I-C-2

NORTH GORHAM HYDRO PUBLIC SAFETY PLAN

NORTH GORHAM HYDRO PUBLIC SAFETY PLAN

1. Project Features

The North Gorham Project No. 2519 is located on the Presumpscot River in the towns of Gorham, Windham, and Standish, Maine. The project consists of a masonry dam, powerhouse, transformer house, switch house and an impoundment extending approximately 1.1 miles upstream.

The impoundment at full pond has a surface area of 98 acres, a gross volume of 1300 acre feet and a shoreline of 3 miles. The project is operated as a run-of-river facility and, as such, does not utilize storage capacity under normal operating conditions.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 shows the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 272 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillway.
- A "DANGER, STAY BACK" sign (2) is located on the dam at the west end of the spillway between the racks and the deep gates.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance and the substation.
- "DANGER, HIGH VOLTAGE" signs (4) are located on each side of the chain link fence surrounding the substation.
- Three "DANGER, HYDRO STATION" signs (5 {2 signs} and 6) are located on the deep gates facing the Windham shore; on the fence facing the town beach; and on the fence facing the bridge, respectively.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

- A "DANGER, STAY BACK!" sign (3) is located on the face of the dam by the deep gates, facing downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Area

A canoe portage is located approximately ¼ mile west from the west end of the dam.

2.4.1 Existing Safety Devices

No safety devices are located at the recreation area.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

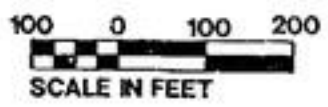
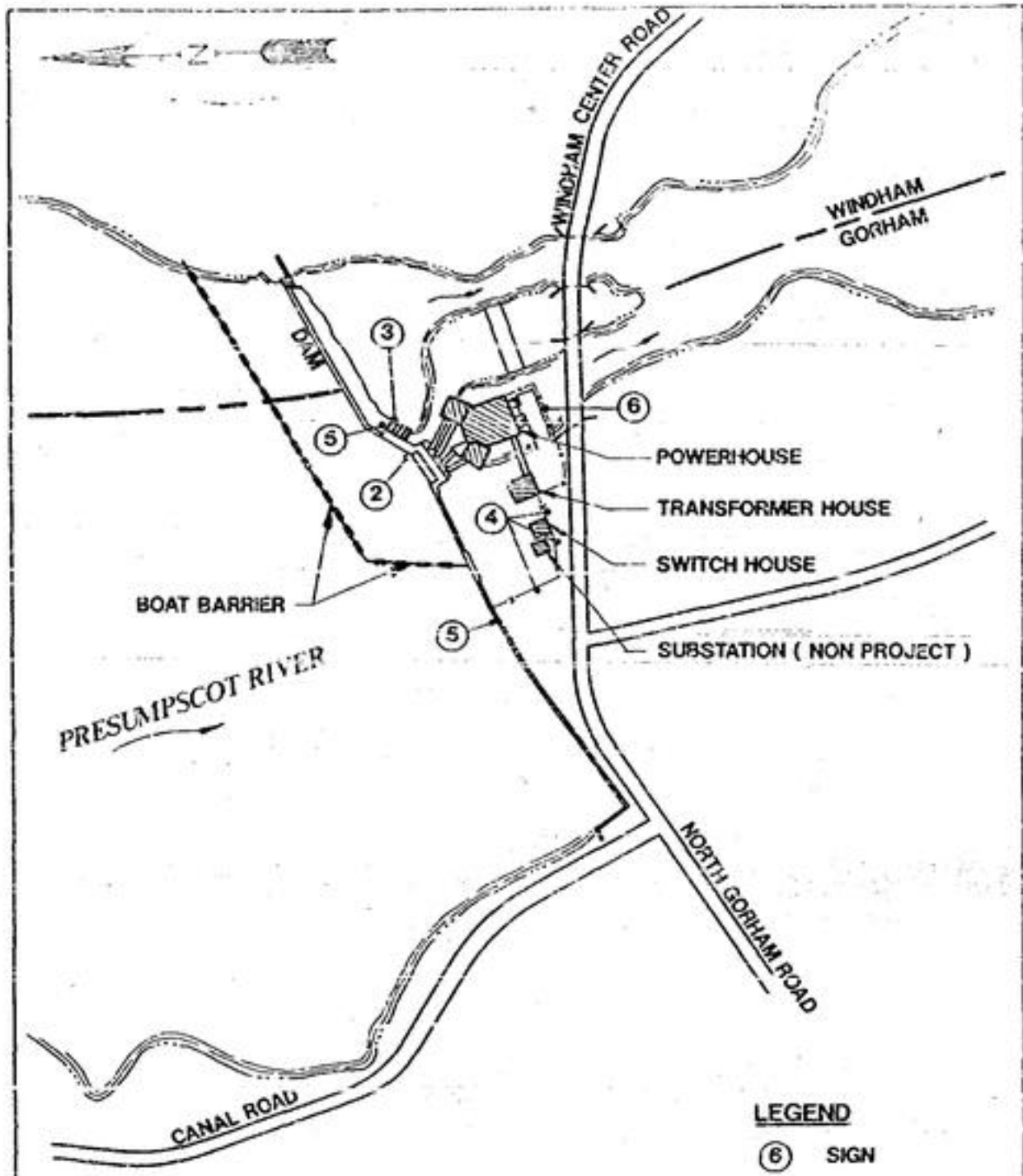
3. Additional Items

North Gorham is located in a rural town environment. The headpond is used for swimming, canoeing, and fishing.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



SAFETY FEATURES
NORTH GORHAM PROJECT
 FERC NO. 2519
 CENTRAL MAINE POWER COMPANY

EXHIBIT 2

0869 0000



Shop Drawing

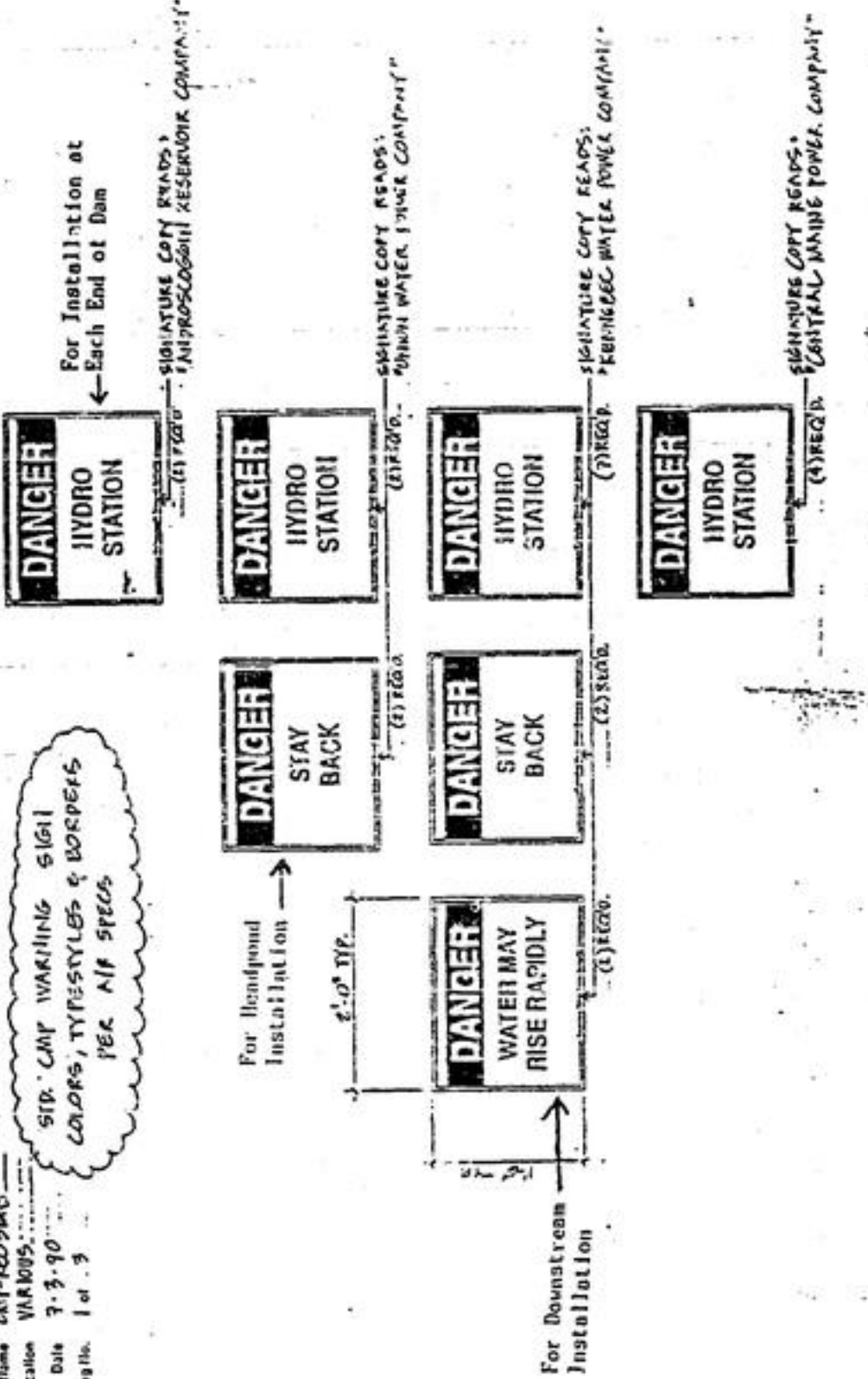
Work Order No. **11492**
 Job Name **CAT-REG SIGNS**
 Job Location **VIA RIBS**
 Date **7-3-90**
 Drawing No. **1 of 3**

FOR SHOP USE ONLY
 CUSTOMER APPROVAL

SID. CAP VARIING SIGIL
 COLORS, TYPESTYLES & BORDERS
 PER A/E SPECS



Neokra
 SIGNAGE & GRAPHICS



FACE LAYOUTS - S/F N/A - 000 NUM. SIGNS w/ VINC COPY
 SCALES 1" = 1'-0"

TYPICAL SAFETY SIGN:
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign Installed - \$75)



Shop Drawing

Work Order No. **19492**
 Job Name **GMF - REC-SIGNS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **3** of **3**

For Shop Use Only
 Customer Approval



DANGER
 STAY
 BACK

Microshield Water Proof Company
 (1) REQ'D.

DANGER
 STAY
 BACK

Microshield Water Proof Company
 (1) REQ'D.

DANGER
 WATER MAY
 RISE RAPIDLY

Microshield Water Proof Company
 (2) REQ'D.

DANGER
 WATER MAY
 RISE RAPIDLY

Microshield Water Proof Company
 (2) REQ'D.

For Downstream Installation ←

STD. CAMP WARNING
 SIGN COLORS, TYPE
 STYLES & BORDERS IN A
 N/C SPECS

FACE LAYOUTS -- SEE H/L ORO ALUM SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0"
 (3) TOTAL 3' x 4' PANELS

TYPICAL SAFETY SIGNS
 VISIBLE FOR 300 FT.

(Approximate Unit Cost Per
 Installed ... \$775)

WARNING SIGNS-TO BE CONSPICUOUSLY INSTALLED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR,
- SIGNS NO MORE THAN 60 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTERIOR BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

2 TWISTED STRANDS, #11 ALUMINUM COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4' APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

TOP RAIL 1.66" O.D. SS-40, GALV. TUBING

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARE 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PURL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

8' AVERAGE 9' MAXIMUM POST SPACING

3/8" TRUSS ROD

FINISH GRADE
#6 ALUMINIZED STEEL TENSION WIRE

2" DIAMETER FRESH CHAIN-LINK



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING MATERIAL & STRUCTURAL DETAILS

APPROVED: <i>[Signature]</i>	<i>[Signature]</i>
DATE: 1-23-79	<i>[Signature]</i>

I-C-2

8872 0000

SKELTON HYDRO PUBLIC SAFETY PLAN

- SKELTON HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Skelton Project No. 2527 is located on the Saco River in York County, Maine, about 11.1 miles upstream of the City of Saco. The Project dam and powerhouse are located in the towns of Buxton and Dayton, Maine. The impoundment is partially located in these towns and also extends into the town of Hollis. The area surrounding the project is rural with farming as a dominant land use.

The Skelton Project consists of a 1695 foot long dam, a powerhouse that is integral to the dam, an impoundment, and appurtenant facilities. The dam forms a riverine impoundment which at full pond elevation of 127.5 feet is approximately 2.8 miles long, has a surface area of 488 acres and a shoreline of 17 miles.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 495 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") and a log boom is located directly upstream of the spillway.
- Two "DANGER, STAY BACK" signs (4 and 5) are located on the west and east ends of the dam structure.
- Lights illuminating the gate structure.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance.

Two "DANGER, HYDRO STATION" signs (9) are located at each end of the dam structure or fence, facing away from the dam.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Two "DANGER, WATER MAY RISE RAPIDLY!" signs (6 and 7) are located on the east and west shores, immediately below the dam.
- A horn is sounded when the tainter gate opens or when a unit starts running in order to warn people downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Areas

A Canoe Portage and Boat Launch are located on the west end of the dike.

2.4.1 Existing Safety Devices

- A "DANGER, PROCEED DOWN THE OPPOSITE SHORE" sign (2) is located on the east shore, at the point of land approximately 300 feet above the dam.
- A "DANGER, PROCEED DOWN THIS SHORE" sign (3) is located on the west shore approximately 400 feet upriver of the dam.
- There are six canoe portage trail signs located along the safest route down over the dike.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation areas.

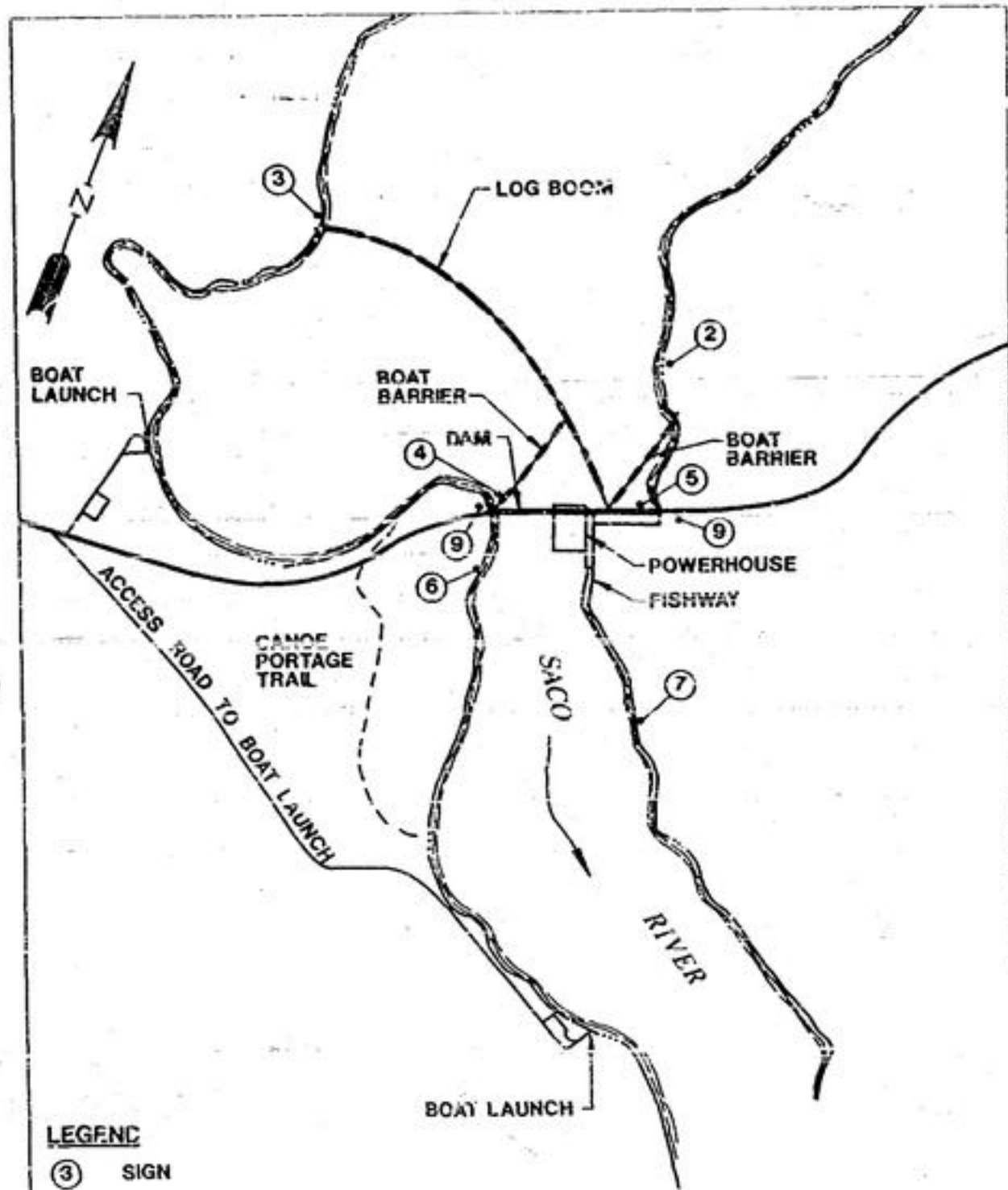
3. Additional Items

Skelton is positioned in a rural environment. Current use is moderate, but expected to grow through the use of the Boat Launch and Canoe Portage.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



LEGEND

③ SIGN

400 0 400
 SCALE IN FEET

KA 027-077 10/91

**SAFETY FEATURES
 SKELTON PROJECT**

FERC NO. 2527

CENTRAL MAINE POWER COMPANY

EXHIBIT I

EXHIBIT 2

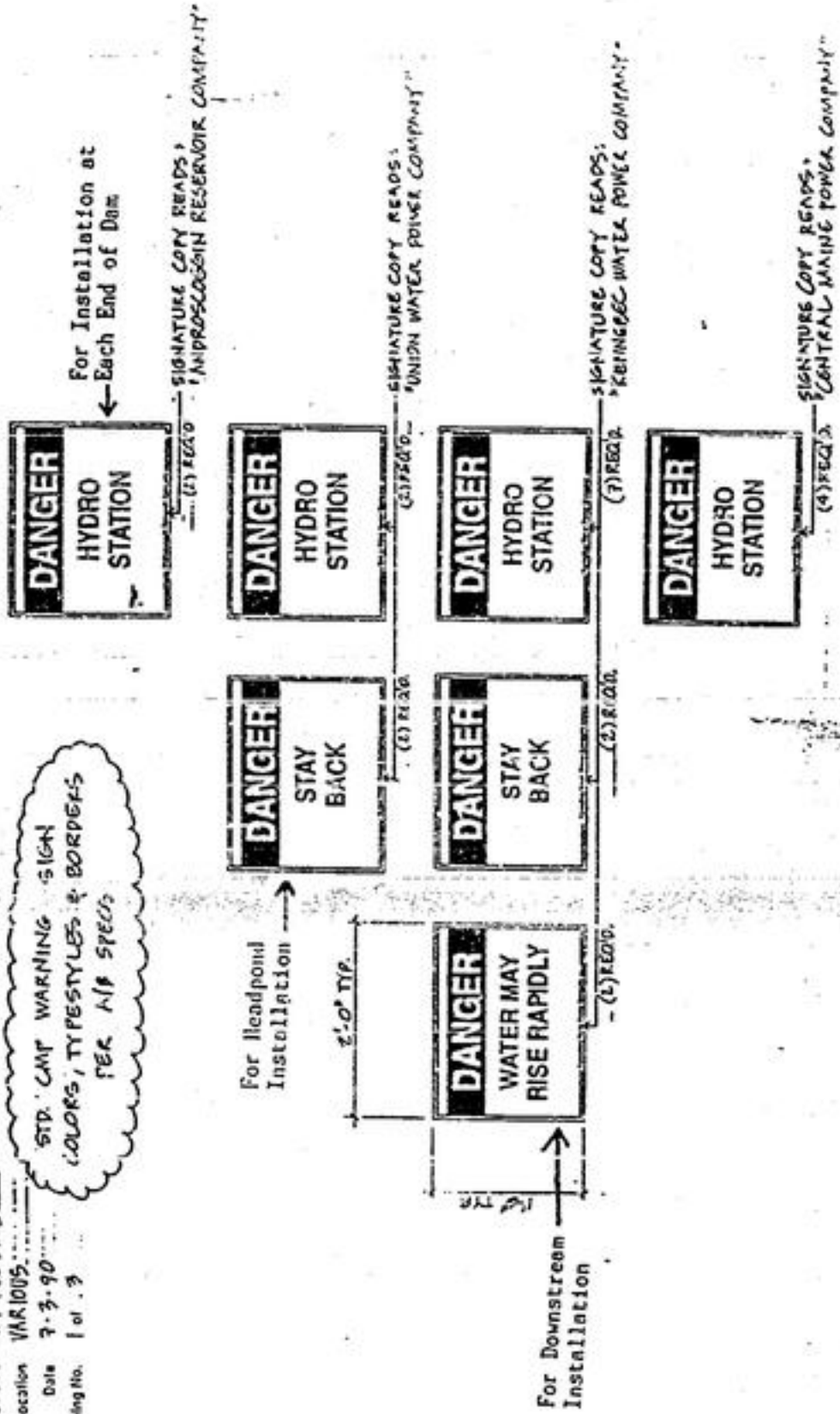
Shop Drawing

Work Order No. **M492**
 Job Name **CMP-REG SIGNS**
 Job Location **VAR 1005**
 Date **7-3-90**
 Drawing No. **1 of 3**

For Shop Use only
 Customer Approval

NeoKre
 Manufacturers of Signs and Graphics

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & BORDERS
 PER A/E SPECS



FACE LAYOUTS - 5/8" MIN. - 000 NUM. SIGNS w/ VINYL COPY
 SCALES: 1" = 1'-0"

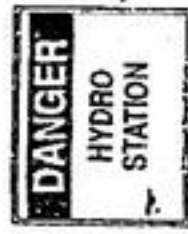
TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign Installed - \$75)

Work Order No. **H492**
 Job # **611-REG SIGNS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **1 of 3**

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & WORDS
 PER A/E SPECS

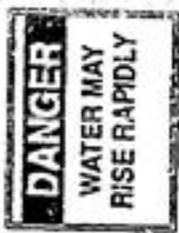
For Installation at
 ← Each End of Dam
 SIGNATURE COPY READS:
 "ANDROSOGGIN RESERVOIR COMPANY"



For Headpond
 Installation →

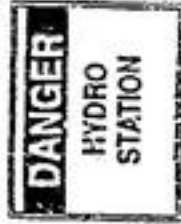


6'-0" TYP.

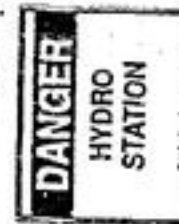


For Downstream
 Installation →

SIGNATURE COPY READS:
 "UNION WATER POWER COMPANY"



SIGNATURE COPY READS:
 "KEMPEC WATER POWER COMPANY"



SIGNATURE COPY READS:
 "CENTRAL MAINE POWER COMPANY"



FACE LAYOUTS - 5/8" N/L DDD NUM. SIGNS w/ VINYL COPY
 SCALES 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign
 Installed - \$75)

WARNING FOR 300 FT.

(Approximate Unit Cost Per Sign
 Installed - \$205)

Work Order No. 187543

Job Name CENTRAL MAINE POWER CO.

Job Location WILSONS

Date 12-18-99

Drawing No. 5 of 5

DANGER

PROCEED
DOWN OPPOSITE
SHORE

Central Maine Power Company

"DOWN OPPOSITE II" (8) REQ'D

DANGER

STAY
BACK

Central Maine Power Company

"STAY BACK II - CMP" (55) REQ'D

CONDENSE SUBCOMY UNIFORMLY,
AS REQ'D THESE (2) LAYOUTS

NOTICE

PROCEED
DOWN THIS
SHORE

Central Maine Power Company

"DOWN THIS III" (3) REQ'D

FACE LAYOUTS - 6' F N/L .080 ALUM. SIGNS
SCALE: 1" = 1'-0"

"STAY BACK II - BD" (2) REQ'D

DANGER

STAY
BACK

Central Maine Power Company

DANGER

WATER MAY
RISE RAPIDLY

Central Maine Power Company

"WATER RISE II - RD" (2) REQ'D

DANGER

WATER MAY
RISE RAPIDLY

Central Maine Power Company

"WATER RISE II - CMP" (17) REQ'D

1'-0" TYP

3'-0" TYP

ALL SIGNS TO BE
.080 ALUM., WHITE
OIL SIDE, 1/8"

LETTERS 1" HIGHER
LETTERS 1" HIGHER
NUMBER 1" HIGHER
SIGNATURE 1" HIGHER
DATE 1/8" HIGHER

SIGNATURE COPY SIGN
OWNER OF BEACHED TRACT

00000 00000

CATARACT HYDRO PUBLIC SAFETY PLAN

CATARACT HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Cataract Project No. 2528 is located on the Saco River in the cities of Biddeford and Saco and the towns of Dayton and Buxton, Maine.

The main powerhouse is situated on the Saco River on the easterly side of Factory Island in the city of Saco, Maine. The project includes four dams. The East Channel and West Channel Dams create a 14 acre reservoir with a storage capacity of 1.2 million cubic feet at a normal surface elevation of 44 feet. The Bradbury and Spring Island Dams create a 359 acre reservoir with a storage capacity of 31 million cubic feet at a normal surface elevation of 49.2 feet. The total shoreline miles for both reservoirs combined is 20 miles. The larger reservoir extends 9 miles upriver to the Skelton Project.

The topography in the project area along the Saco River Valley is glacially formed, of relatively low relief. Land use adjacent to the project area is urban.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 464.75 Foot Spillway located at the Spring and Bradbury Island Dams 408.5 Foot Spillway located at the Cataract Dam

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly above the gate house at the Spring Island dam and directly above the gate house at the Bradbury Island dam.
- Lights illuminating the gate structure at the East Channel Dam and the gate structure at the West Channel Dam.
- Three "DANGER, STAY BACK" signs (2,3, and 4) are located on the upstream tip of Poor's Island, at the Bradbury Island dam gate house, facing upstream, and at the Spring Island dam gate house, facing upstream, respectively.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Boat barriers with signs "DANGER, STAY BACK, HYDRO STATION" are located directly above the powerhouse at the East Channel dam.
- Lights illuminating the driveway to the Spring Island dam, the entrance to the gate house at the Bradbury Island dam, the entrance to the powerhouse and substation at the East Channel dam and the entrance to the gate house at the West Channel dam.
- "DANGER, HIGH VOLTAGE" signs (8) located on each side of the chain link fence surrounding the substation.
- Three "DANGER, HYDRO STATION" signs (9,10, and 11) are located on the fence of the barrier wall (north shore) by the railroad tracks, on the fence by the spillway downstream of the barrier wall (north shore) and on the fence near the entrance to the head-works access gate, respectively at the East Channel Dam.

2.2.2 Proposed Safety Devices

- Repair the fence and cut the brush along the fence at the West Channel Dam Gatehouse by November 15, 1991.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Two "DANGER, WATER MAY RISE RAPIDLY!" signs (5 and 6) are located on the concrete abutment form on the east side of the tailgates, facing downstream and on the east bank, at the narrow portion of the river 300 feet below the dam, next to a rock outcrop at the East Channel Dam.
- A "DANGER, WATER MAY RISE RAPIDLY!" sign (7) is located below the Old Lower York Dam, in the center of the river, facing downstream, at the West Channel Dam.
- A horn sounds when the automatic gate opens on the West Channel Dam to warn any people downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Area

The Poor's Island Park is located approximately 1500 feet above the East Channel Dam. Also, a recreational park is located on the north shore below the East Channel Dam.

2.4.1 Existing Safety Devices

There is a sign (installed and maintained by the City of Saco) on the foot bridge access to the Poor's Island which reads "DANGER - NO SWIMMING - CHANGING CURRENT."

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

3. Additional Items

Cataract is a complex project due to 1) the number of dams and islands, and 2) the location of the project in a highly developed area where there are multiple opportunities for the public to access the water. Use of the river area is low to moderate in the headpond and seasonably high below the East Channel Powerhouse and West Channel dam. The recreation area includes the Poor's Island Park. A major goal of CMP's sign program is to discourage boating between the dams.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

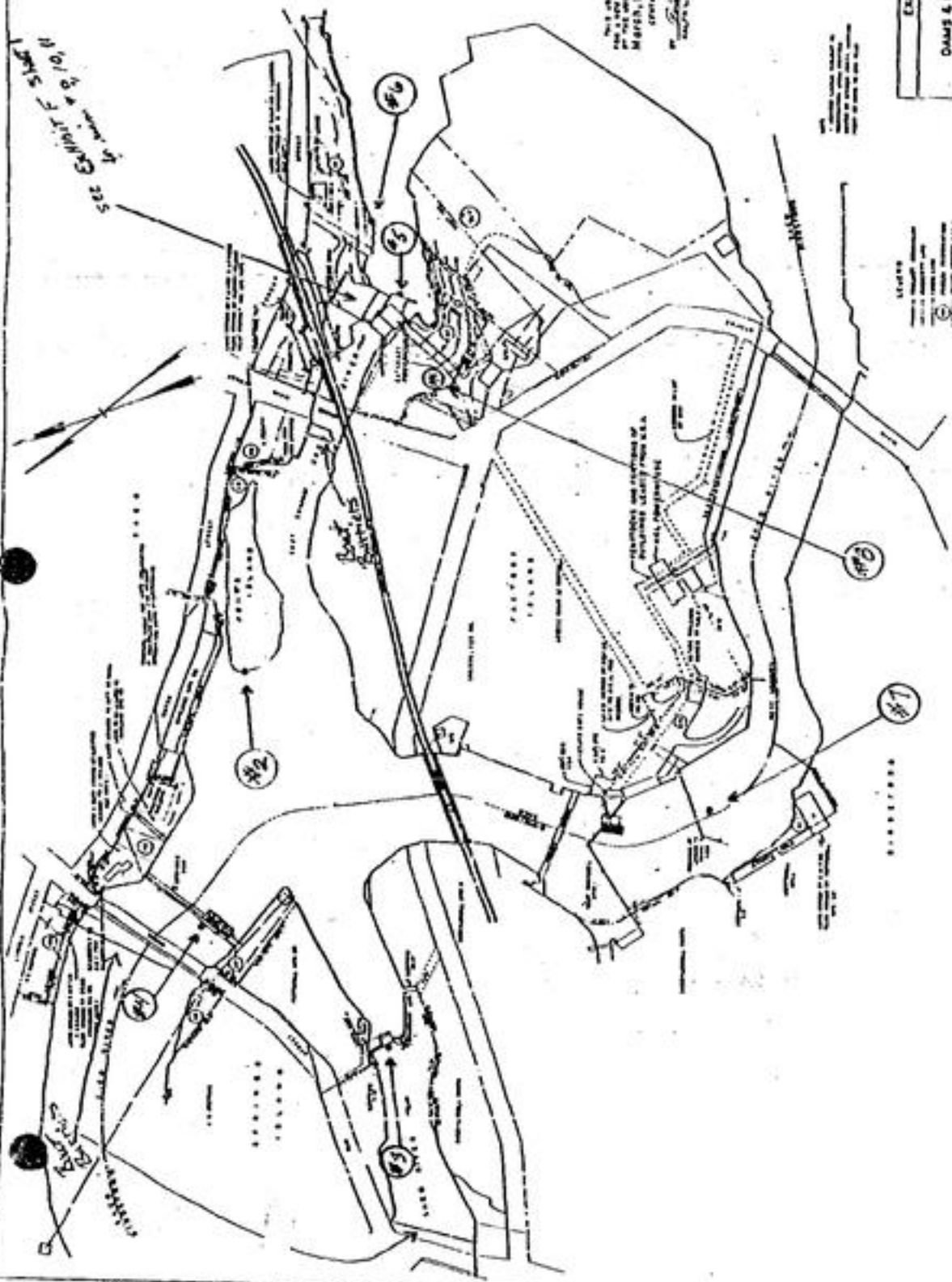
SEE EXHIBIT 5 SHEET 1
 TO DRAWING 9/10/81

NO.	DESCRIPTION	DATE
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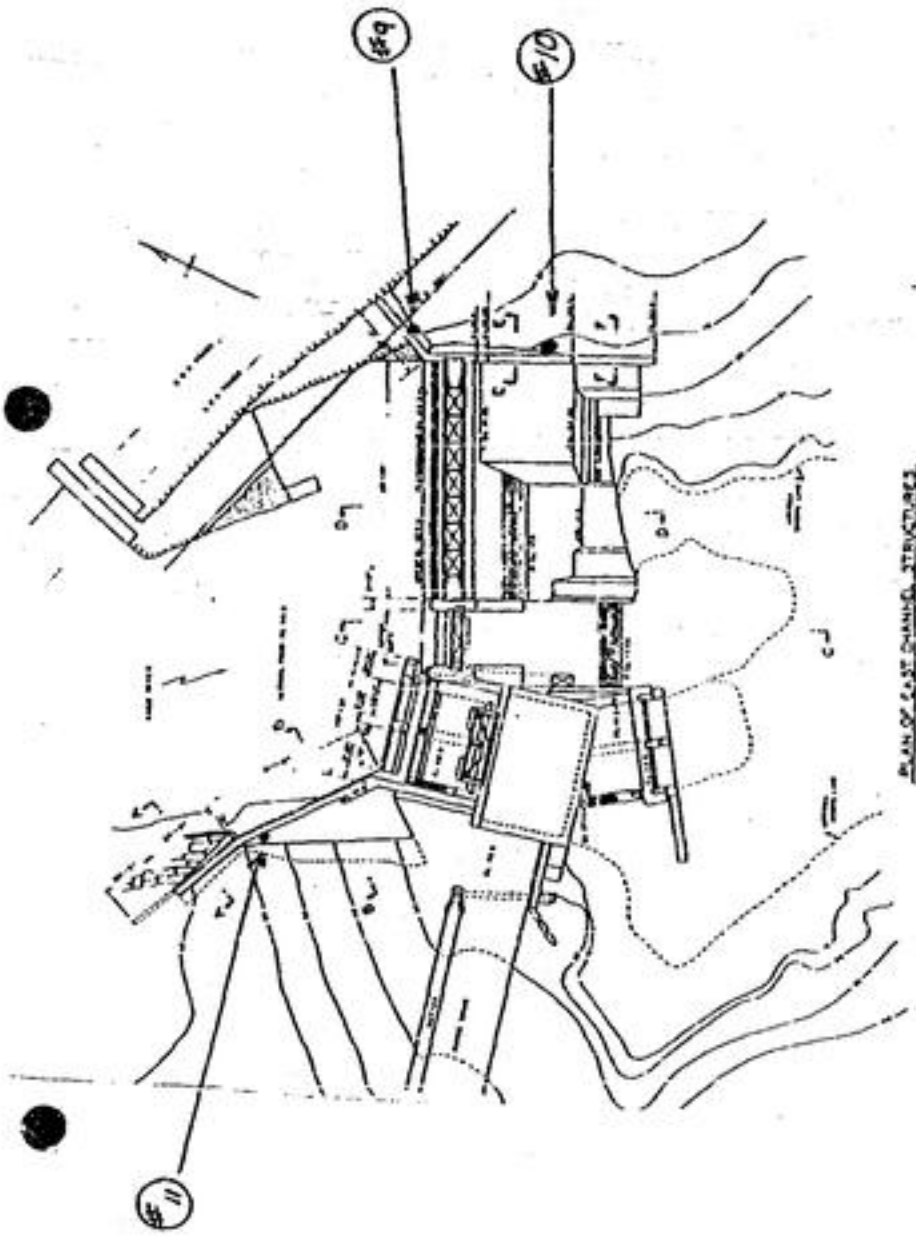
THIS DRAWING IS PART OF THE PROJECT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE PROJECT MANAGER.

EXHIBIT 5 SHEET 2
 DETAIL MAP
 DAMS & POWERHOUSE AREA
 GATP IMPACT PROJECT

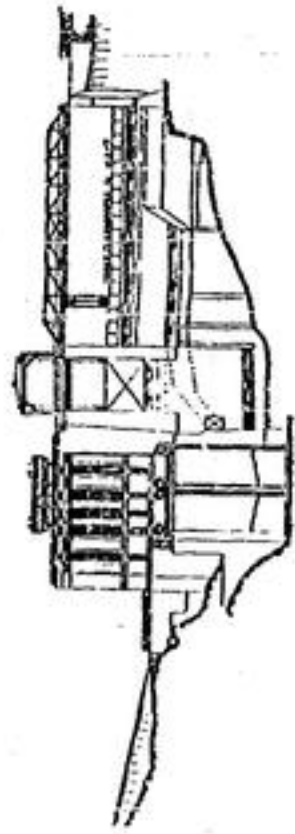
LEGEND
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SHEET # 1	
CASH POWERHOUSE-FAST CHANNEL DAM	
PLAN - ELEVATION - SECTIONS	
CANNON PROJECT	
SHEET NO. 1	
DATE: 1954	
DRAWN BY: [illegible]	
CHECKED BY: [illegible]	
APPROVED BY: [illegible]	
SCALE: 1" = 10'	



PLAN OF FAST CHANNEL STRUCTURES



ELEVATION DAM STRUCTURE

0889 0000

EXHIBIT 2



Shop Drawing

Work Order No. 19492
 Job Name CAMP - REC-SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

For Shop Use Only Upon Customer Approval

Date:



(1) REQ'D.



(2) REQ'D.

STD. CAMP WARNING
SIGN COLORS, TYPE
STYLES & BORDERS PER
A/B SPECS.



(1) REQ'D.



(3) REQ'D.

FACE LAYOUTS -- SEE N/L OBO N/D.M. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0" (3) TOTAL 3'-0" PANELS

TYPICAL SAFETY SIGNS
 VISIBLE FOR 300 FT.

(Approximate Unit Cost Per Sign)
 Installed - \$225

WARNING SIGNS-TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE 'DANGER HIGH VOLTAGE' SIGN ON EACH SIDE OF SMALL SUBSTATIONS OR, -SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE 'DANGER HIGH VOLTAGE' SIGN ON EACH SIDE OF SMALL SUBSTATIONS OR, -SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS
- ONE 'CAUTION LOWER ANTENNA BEFORE ENTERING' SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

2 TWISTED STRANDS, #11 ALUM. COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. I., SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

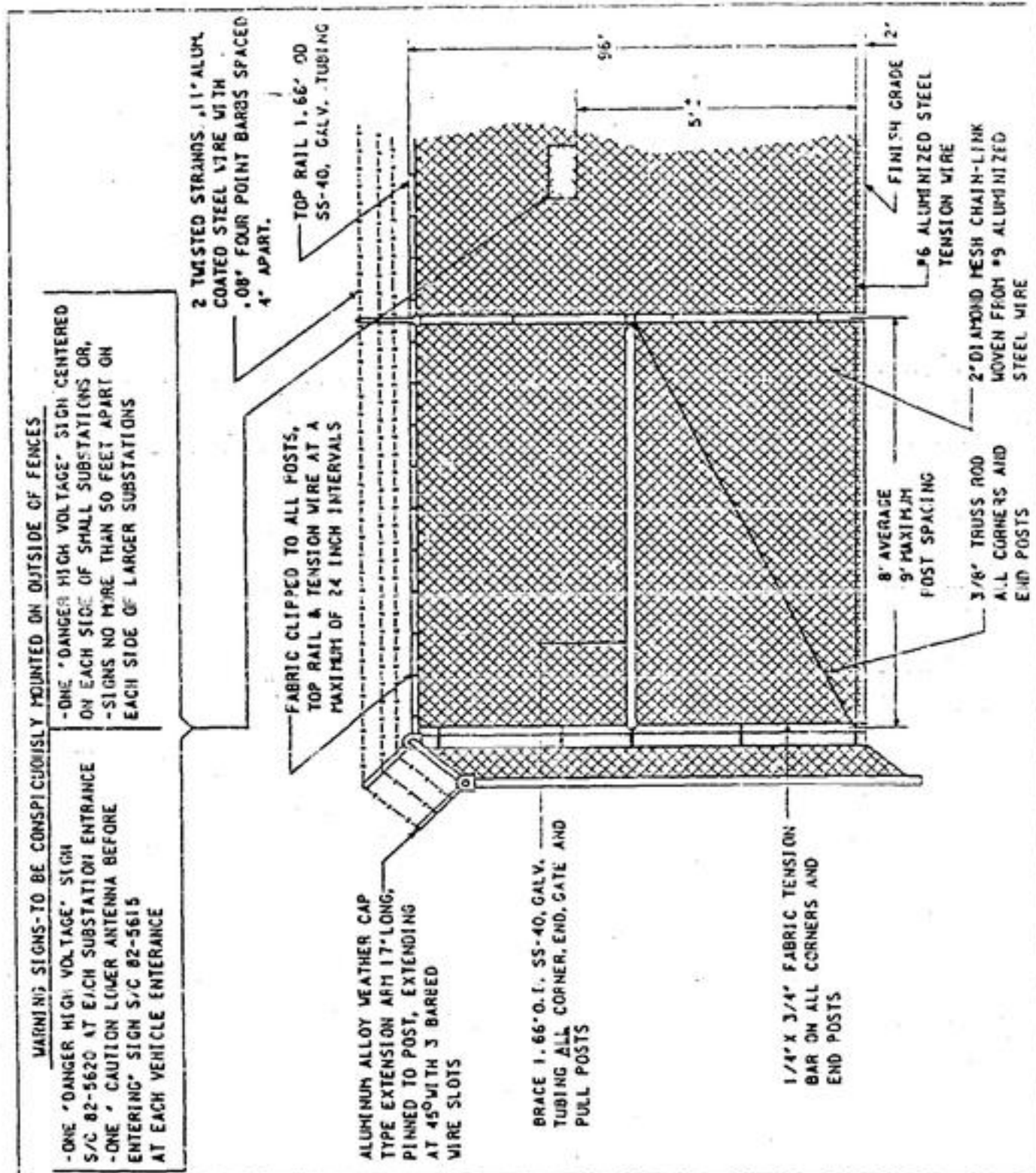
8' AVERAGE 9' MAXIMUM POST SPACING

3/8" TRUSS ROD ALL CORNERS AND END POSTS

2" DIAMOND MESH CHAIN-LINK MOUNTED FROM #9 ALUMINIZED STEEL WIRE

FINISH GRADE #6 ALUMINIZED STEEL TENSION WIRE

TOP RAIL 1.66" O.D. SS-40, GALV. TUBING



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING
MATERIAL & STRUCTURAL
DETAILS

APPROVED: *JLK*
DATE: 10-23-89

bpe
J. J. J.

I-C-2

BONNY EAGLE HYDRO PUBLIC SAFETY PLAN

BONNY EAGLE HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Bonny Eagle Project No. 2529 is located on the Saco River in York and Cumberland Counties, Maine. The dams and generating station are located in the towns of Hollis and Standish, with the tailrace extending into the town of Buxton. The impoundment is located in the towns of Hollis, Standish and Limington. The area surrounding the project is rural with little industrial growth.

The Bonny Eagle Project consists of a 350 foot long diversion dam, a 164 foot long dam (constituting the intake) and two earth dikes on the main river channel, a powerhouse containing six generating units, and appurtenant facilities. The dams create a riverine impoundment extending approximately 6 miles upstream. The impoundment at full pond elevation of 216 feet has a surface area of 347 acres, a storage capacity of 1,600 acre-feet and a shoreline of 19 miles.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 350 Foot Spillway

2.1.1 Existing Safety Devices

- Two "DANGER, STAY BACK" signs (2 and 3) are located on the upstream dam face, near the west end of the log sluice and on the ledge at the east end of the diversion dam, respectively.
- Lights illuminating the gate structure.
- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly in front of the flashboards at the overflow bypass section.
- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") and a log boom are located directly upstream of the powerhouse.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance.
- "DANGER, HIGH VOLTAGE" signs (7) located on each side of the chain link fence surrounding the substation.
- Two "DANGER, HYDRO STATION" signs (8) located at each end of the dam structure or fence, facing away from the dam.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

- A "DANGER, WATER MAY RISE RAPIDLY!" sign (6) is located on the east shore below the powerhouse, opposite the pump house.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Area

A Cance Portage is located on the west side of the dam approximately 150 feet upstream of the headworks. Limington Rips Picnic Area is provided by the Maine Department of Transportation and Central Maine Power Company and is located approximately 7 miles upstream of the dam.

2.4.1 Existing Safety Devices

- A "HYDRO STATION, SPILLWAY/INTAKE, DANGER, PROCEED DOWN THIS SHORE" sign (4) is located on the west shore just upstream of the diversion dam.
- A "HYDRO STATION, SPILLWAY/INTAKE, DANGER, PROCEED DOWN OPPOSITE SHORE" sign (5) located on the east shore above the diversion dam.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

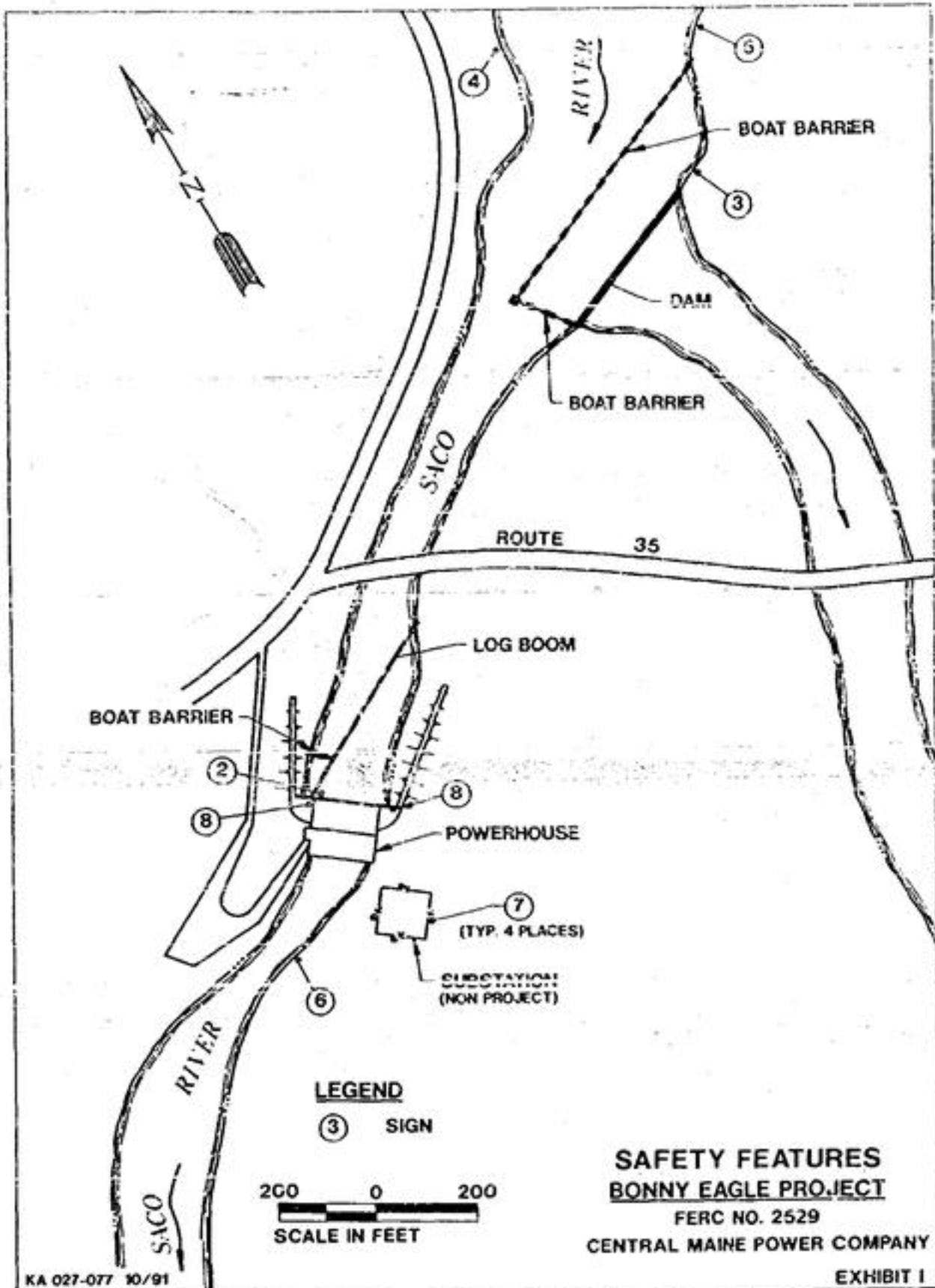
3. Additional Items

Bonny Eagle is a medium size project in a rural environment. The Limington picnic area is considered to be a part of the project. Current use is moderate, but expected to grow as more people boat this section of the Saco River (Canoe Portage is available).

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



KA 027-077 10/91

SAFETY FEATURES
BONNY EAGLE PROJECT
 FERC NO. 2529
 CENTRAL MAINE POWER COMPANY

EXHIBIT I

0899 0000

EXHIBIT 2



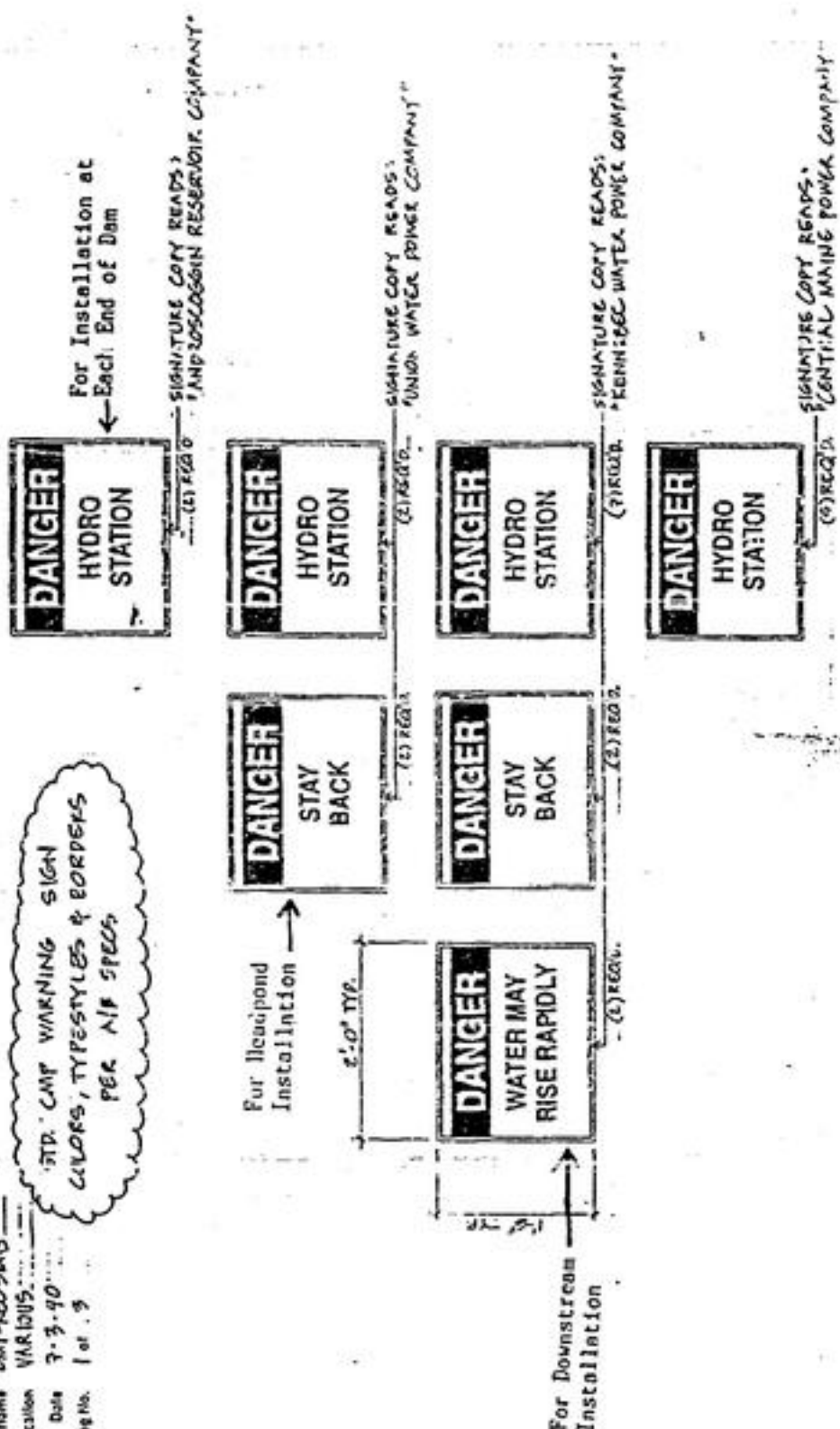
Shop Drawing

Work Order No. **M492**
 Job Name **CMP-REG-SIGNS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **1 of 3**

For Shop Use only
 Customer Approval

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & BORDERS
 PER A/E SPECS

Neokre
 A Division of Neokre Inc. (1987)



TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign
 Installed - 575)



Shop Drawing

Work Order No. 19492
 Job Name CMP - REC-SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

For Shop Use only - Not for Customer Approval

Date:

4'-0" Ht.

3'-0" Wd.

For Headpond Installation →



(1) REQ'D.



(1) REQ'D.



(2) REQ'D.



(2) REQ'D.

← For Downstream Installation

STD. CMP WARNING SIGN COLORS, TYPE-STYLES & BOX DIMS PER A/B SPECS

FACE LAYOUTS -- S/F N/L OBO ALUM SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0" (7) TOTAL 3'x4' PANELS

TYPICAL SAFETY SIGNS VISIBLE FOR 300 FT.

(Approximate Unit Cost Per Installed - \$225)

0902 0000

HYDRO STATION
Spillway / Intake

DANGER

PROCEED DOWN
THIS SHORE

Company Name

HYDRO STATION
Spillway / Intake

DANGER

PROCEED DOWN
OPPOSITE SHORE

WARNING SIGNS-TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR, S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE
- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF LARGER SUBSTATIONS
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

2 TWISTED STRANDS, .11" ALUM. COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION ARM 17" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

9' AVERAGE 9' MAXIMUM POST SPACING

3/8" TRUSS ROD ALL CORNERS AND END POSTS

2" DIAMETER MESH CHAIN-LINK WOVEN FIBER #9 ALUMINIZED STEEL WIRE

#6 ALUMINIZED STEEL TENSION WIRE

FINISH GRADE 12"



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING
MATERIAL & STRUCTURAL
DETAILS

APPROVED: *ZLK*
DATE: 10-23-79

WFE
ZLK

I-C-2

HIRAM HYDRO PUBLIC SAFETY PLAN

HIRAM HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Hiram Project No. 2530 is located in the towns of Hiram and Baldwin, Maine, on the Saco River in the Oxford and Cumberland Counties. It consists of a concrete gravity type overflow section, four small gate sections, an intake section, and a non-overflow timber bulkhead section.

The Project boundary extends down river 1.4 miles and the reservoir extends upriver 7.5 miles to just below the confluence of Dragon Meadows Brook. The reservoir at full pond elevation is 349 feet, has a surface area of 255 acres, a usable storage capacity of 572 acre-feet, and a shoreline of 16 miles.

The river passes through the Project in a north to south direction. The segment of the river in the Project area above the dam is slow moving and broadly meanders through the flood plain which is bordered by steep hills. Below the dam the river runs straight through a narrow valley.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing or proposed safety device and to its location on Exhibit 1.

2.1 314 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located approximately 200 yards upstream of the spillway.
- A "DANGER, STAY BACK" sign (3) is located on the dam railing by the tainter gate, facing upstream.
- Lights illuminating the gate structure.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance, parking area, and substation.
- "DANGER, HIGH VOLTAGE" signs (9) located on each side of the chain link fence surrounding the substation.
- Two "DANGER, HYDRO STATION" signs (10) located on the front gate to the station, by the nature study area, and on the dam abutment on the west shore, respectively

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Three "DANGER, AREA MAY FLOOD WITHOUT WARNING!" signs (6,7, and 8) are located on the west side of the dam abutment, facing downstream; on the east side of the dam abutment, facing downstream; and on the west shore below the dam, in the beach area, respectively.
- A horn sounds when the tainter gate opens to warn people downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace.

2.4 Recreation Areas

A Canoe Portage is located approximately 300 yards upstream of the spillway. A Nature Study Area is also located above the dam on the east shore.

2.4.1 Existing Safety Devices

- A "HYDRO STATION, SPILLWAY/INTAKE, DANGER, PROCEED DOWN THIS SHORE" sign (4) is located on the west shore, 1000 feet upstream of the dam.
- A "HYDRO STATION, SPILLWAY/INTAKE, DANGER, PROCEED DOWN OPPOSITE SHORE" sign (5) is located on the east shore, 500 feet upstream of the dam.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation areas.

3. Additional Items

Hiram is a large project in a rural environment. The area receives a relatively high use through the Canoe Portage and Nature Study Area.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

31

EXHIBIT 2



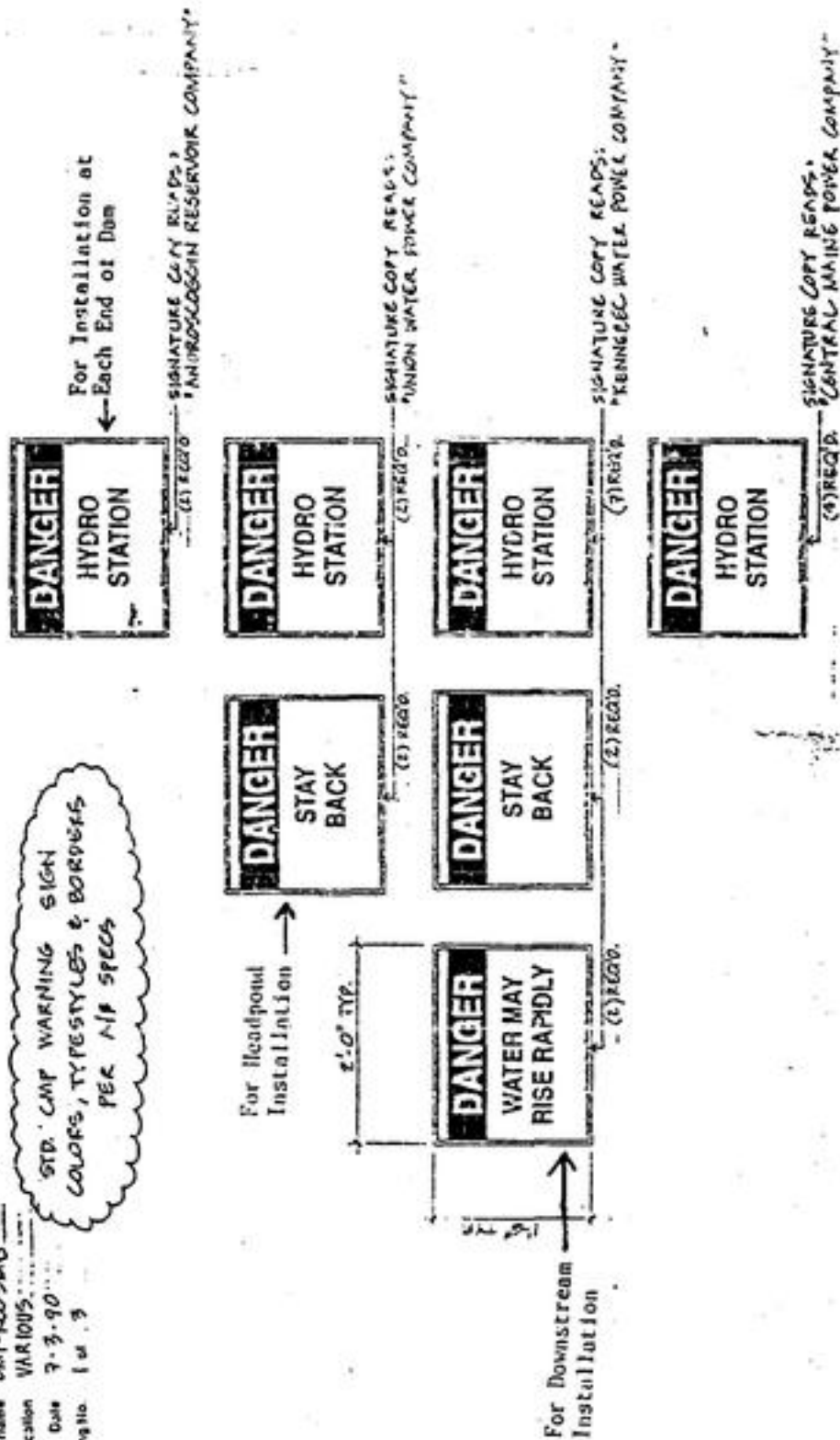
Shop Drawing

Work Order No. **1749Z**
 Job Name **CAF-REC-SKNS**
 Job Location **VARIOUS**
 Date **7-3-90**
 Drawing No. **1 of 3**

For Shop Use only, Not for Customer Approval

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & BORDERS
 PER A/P SPECS

Neokral
 MANUFACTURER OF SAFETY SIGNS SINCE 1958



FACE LAYOUTS - 5/8" N/L - 0.80 NUM. SKNS W/VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGNS
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign
 Installed - \$75)



Shop Drawing

Work Order No. 19492
 Job Name CMP - REC SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No 2 of 3

For Shop Use only upon
 Customer Approval

Date:

4'-0" TYP.



For leadpond
 Installation →

Addressograph Resprint Company

(1) REQ'D.



For Downstream
 Installation ←

Addressograph Resprint Company

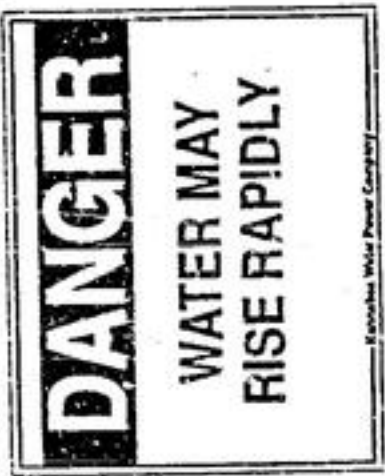
(2) REQ'D.

STD. CMP WARNING
 SIGN COLORS, TYPE,
 STYLES & BORDERS PER
 A/B SPECS.



(1) REQ'D.

Addressograph Resprint Company



(3) REQ'D.

Addressograph Resprint Company

FACE LAYOUTS -- S/F N/C 080 NUM SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0" (7) TOTAL 5'x4' PANELS

TYPICAL SAFETY SIGNS
 VISIBLE FOR 300 FT.

(Approximate Unit Cost Per Sign
 Installed - \$225)

Neokraf
 Manufacturer of Signs and Panels for
 National & Int'l.

ALL SIGNS TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR,
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SUBSTATION ENTRANCE
- ONE "CAUTION NO ANTENNA BEFORE ENTERING" SIGN AT EACH VENTILATION ENTRANCE

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SUBSTATION ENTRANCE
- ONE "CAUTION NO ANTENNA BEFORE ENTERING" SIGN AT EACH VENTILATION ENTRANCE

2 TWISTED STRANDS .11" ALUMINUM COATED STEEL WIRE WITH .08" FOUR POINT BARBS SPACED 4" APART.

TOP RAIL 1.56" OD SS-40, GALV. TUBING

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALL-TYPE EXTENSION PINNED TO POSTS AT 45° WITH 3 WIRE SLOTS

BRACE 1.65" OD SS-40, GALV. TUBING ALL CORNERS AND PULL POSTS

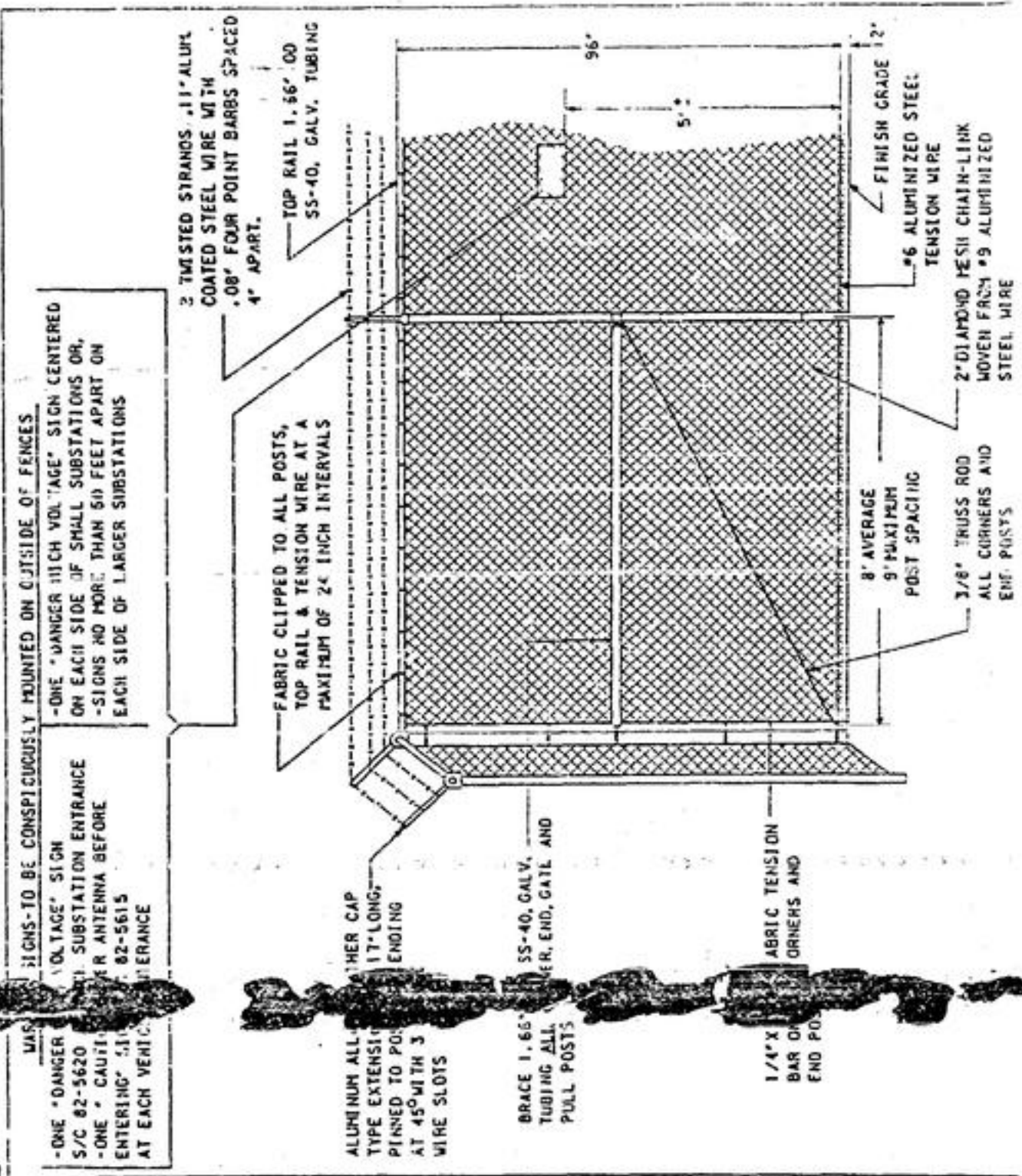
1/4" X BAR ON CORNERS AND END POSTS

8' AVERAGE POST SPACING
9' MAXIMUM POST SPACING

2" DIAMOND PESH CHAIN-LINK MOVEN FROM #9 ALUMINIZED STEEL WIRE

#6 ALUMINIZED STEEL TENSION WIRE

FINISH GRADE



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING MATERIAL & STRUCTURAL DETAILS

APPROVED: <i>JLL</i>	<i>SPC</i>	I-C-2
DATE: 10-23-89	<i>JWS</i>	

WEST BUXTON HYDRO PUBLIC SAFETY PLAN

WEST BUXTON HYDRO PUBLIC SAFETY PLAN

1. Project Features

The West Buxton Project No. 2531 is located on the Saco River in the towns of Buxton and Hollis, Maine. The project consists of a 30 foot high, 585 foot long concrete gravity dam, a reservoir, an upper powerhouse integral with the dam which contains five turbine generating units, and a lower powerhouse containing one generating unit and appurtenant facilities.

The reservoir at normal full pond elevation of 177.8 feet has a surface area of 131 acres and a shoreline of 4 miles. The West Buxton Project is a run-of-river project and, as such, does not utilize storage capacity under normal operating conditions.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 333.5 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly above the spillway.
- Two "DANGER, STAY BACK!" signs (4 and 5) are located on the pier by the sluice gate and on the pier by the stanchion section, respectively.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance and substation.
- "DANGER, HIGH VOLTAGE" signs (10) are located on each side of the chain link fence surrounding the substation.

Four "DANGER, HYDRO STATION" signs (11 (2 signs), 12, and 13) are located at each end of the dam structure or fencing, facing away from the dam; in the fencing along the west shore, facing the Plain Road Bridge; and on the gate to the headquarters parking area and access to the west end of the dam structure.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

Three "DANGER, WATER MAY RISE RAPIDLY!" signs (6, 7, and 8) are located on the pier at the west end of the Plains Road Bridge, facing downstream; on the downstream face of the sluice gate at the west side of the dam; and on the east shore below the lower station, mounted on a tree by the canoe put in area, respectively.

A horn sounds when the broom gate opens to warn any people downstream.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

2.4 Recreation Area

A Canoe Portage is located adjacent to the curtain wall on the east side of the dam.

2.4.1 Existing Safety Devices

A "DANGER, PROCEED DOWN THIS SHORE" sign (2) is located on the east shore 200 yards upstream from the intake.

A "DANGER, PROCEED DOWN OPPOSITE SHORE" sign (3) is located on the west shore 200 yards upstream from the flood gate.

2.4.2 Proposed Safety Devices

No additional safety devices are proposed for the recreation area.

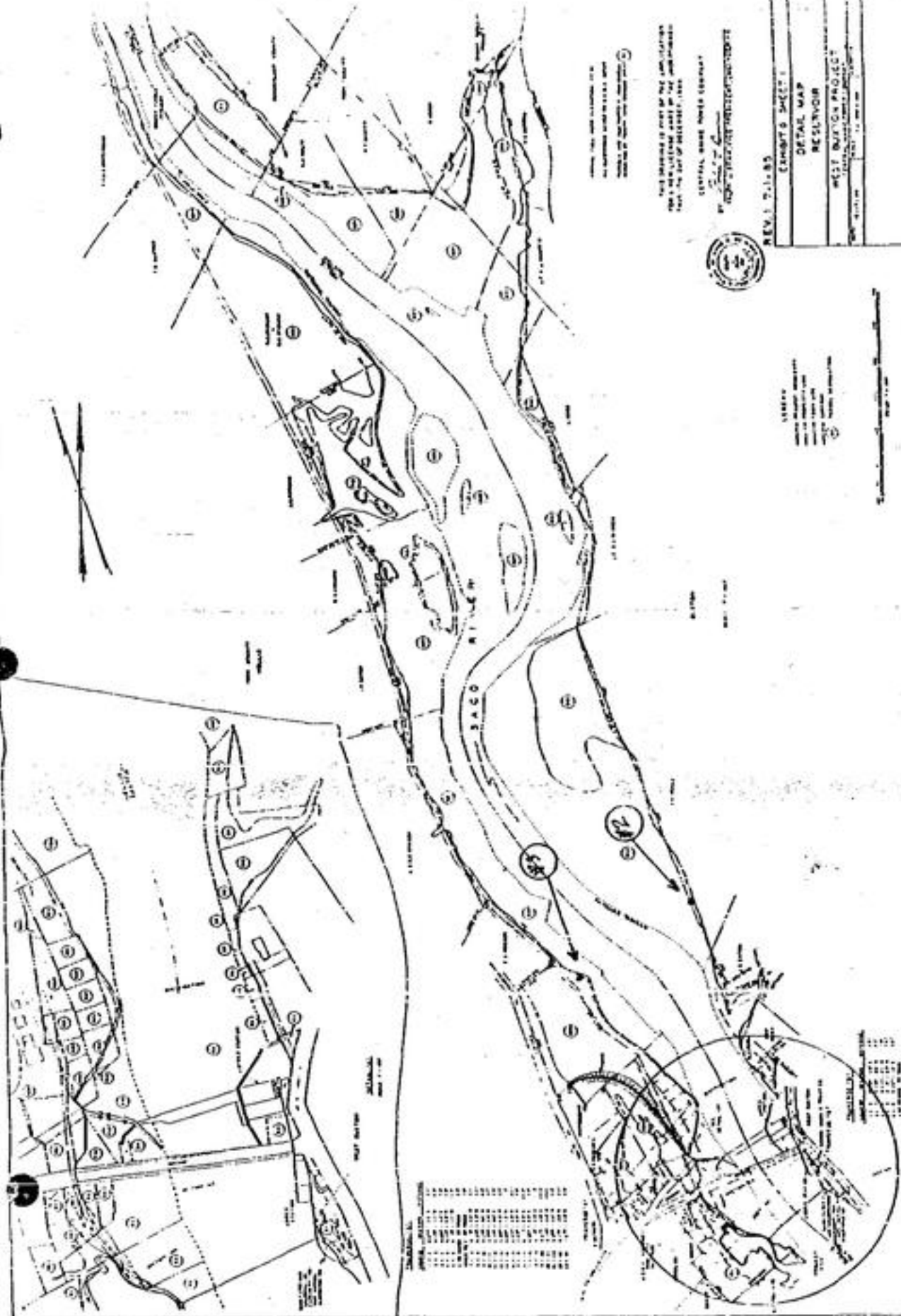
3. Additional Items

The West Buxton facility is located in a small town environment. The headpond is used by boaters and the tailrace is used for fishing.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



THIS DRAWING IS PART OF THE APPLICATION FOR A PATENT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

GENERAL, NAME, AND ADDRESS

REV. 1-7-1-85

CORPUS SHEET 1

DETAIL MAP

RESERVOR

WEST BRANCH PROJECT

DATE: 1-7-1-85

BY: [Signature]

LEGEND

--- PROPOSED

--- EXISTING

--- [Symbol]

--- [Symbol]

SCALE

1" = 100'

1" = 200'

1" = 400'

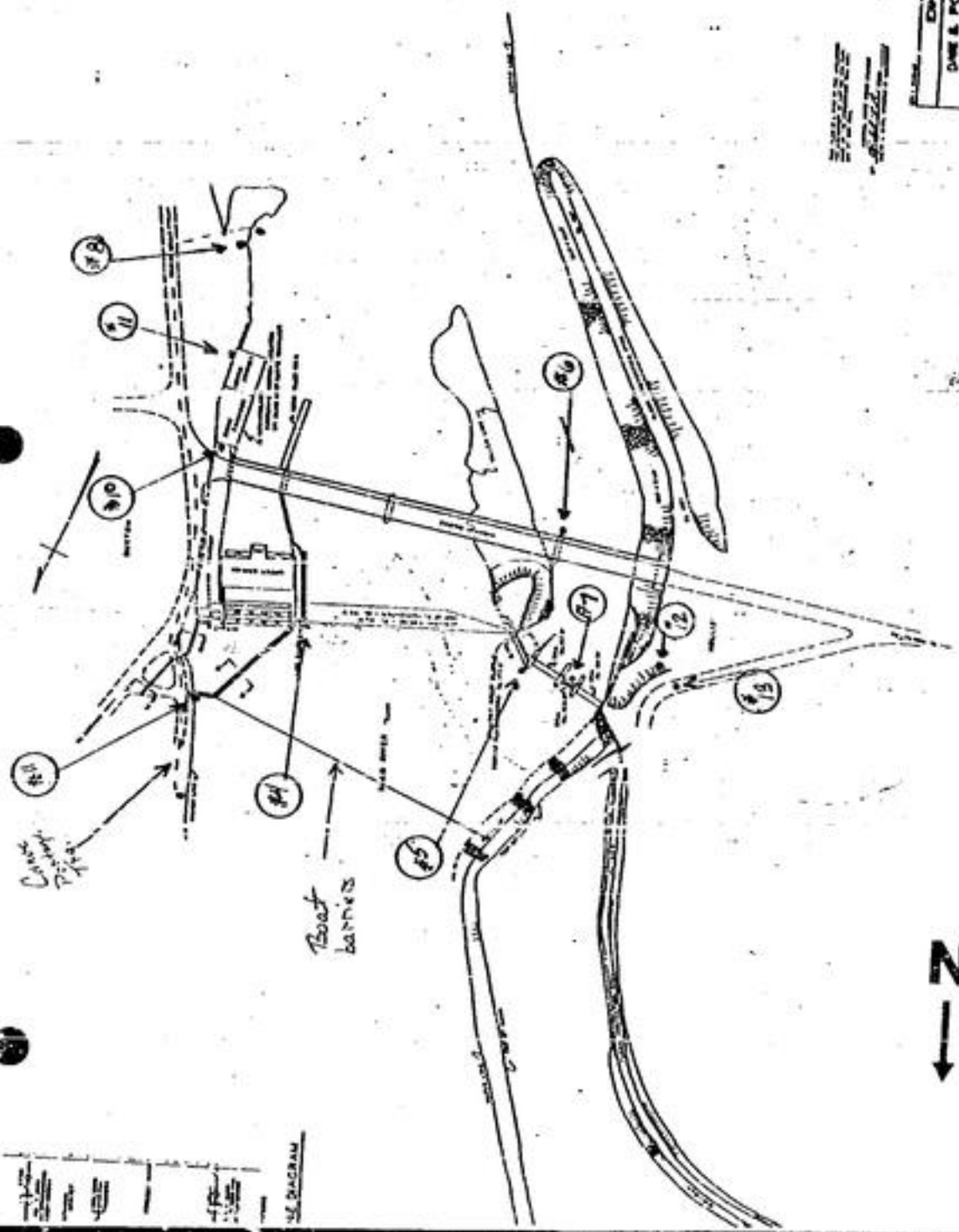
1" = 800'

1" = 1600'

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SHEET NO. 1
 DAM & POWERHOUSE - PLAN
 WEST BURTON STATION
 WEST BURTON PROJECT
 U.S. DEPARTMENT OF THE ARMY
 CORPS OF ENGINEERS
 DISTRICT OFFICE
 CINCINNATI, OHIO



N
 ↓

8922 0080

EXHIBIT 2



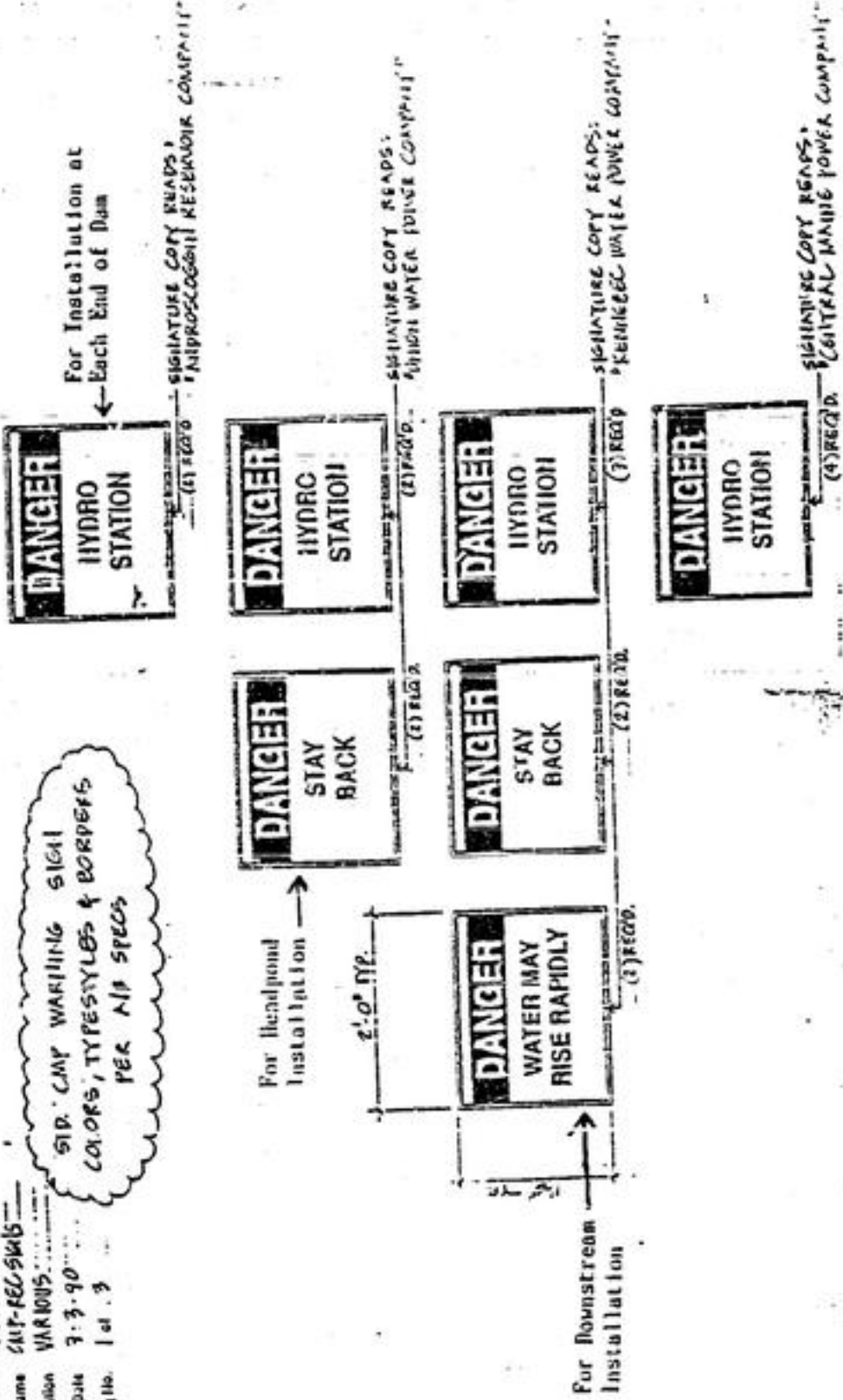
Shop Drawing

Work Order No. **11492**
 Job Name **SALT-REC-SWIB**
 Job Location **VARIOUS**
 Date **3-3-90**
 Drawing No. **1 of 3**

For Rep Use Only
 Customer Approval

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & BORDERES
 PER AIA SPECS

NeoKra
 A Division of The American International Corporation



PAGE LAYOUTS - 5/8" H/L - 200 NUM. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

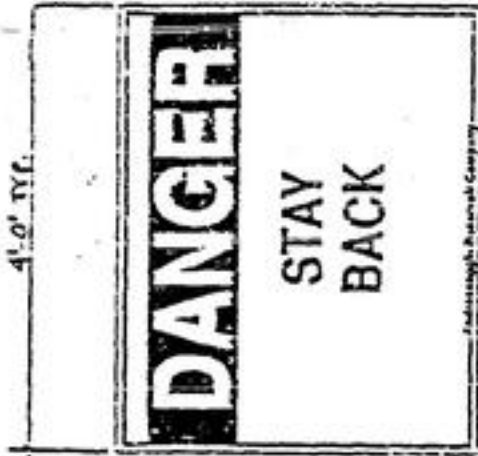
(Approximate Unit Cost for Installed)

Shop Drawing

Work Order No. 19492
 Job Name CMP - REC-51515
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

For Shop Use only
 Customer Approval

Date:



(1) REQ'D.



(2) REQ'D.



(1) REQ'D.



(2) REQ'D.

FACE LAYOUTS -- 5/16" H/L - 0.00 AS SHOWN SIGNS w/ VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Height 4' x 6')
 Installed

STD. CMP WARNINGS
 SIGN COLORS, TYPE,
 STYLES & BACKINGS II
 A/C SPEC.

Neokra

WARNING SIGNS- TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR,
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

2 TWISTED STRANDS, .11" ALUMINUM COATED STEEL WIRE WITH .06" FOUR POINT BARBS SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION AND 17" LONG, PLEATED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

BRACE 1.66" O. D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PILL. POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

8" AVERAGE
9" MAXIMUM
POST SPACING

3/8" TRISS ROD

2" DIAMETER WESH CHAIN-LINK

FINISH GRADE
-P6 ALUMINIZED STEEL TENSION WIRE

TOP RAIL 1.66" O.D. SS-40, GALV. TUBING



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

FENCING MATERIAL & STRUCTURAL DETAILS

APPROVED: <i>[Signature]</i>	<i>[Signature]</i>	I-C-2
DATE: 1-23-79	<i>[Signature]</i>	

FORT HALIFAX :HYDRO PUBLIC SAFETY PLAN

FORT HALIFAX HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Fort Halifax Project No. 2552 is located in Kennebec County, Maine, on the Sebasticook River. The Project dam and powerhouse are located in the town of Winslow, and the impoundment extends 5.2 miles upstream into the town of Benton. The Project consists of a dam and integral powerhouse, with two generating units rated at 750 KW each.

The impoundment at normal full pond elevation of 51.5 feet has a surface area of 417 acres, a gross volume of 5000 acre-feet, and a shoreline of 14 miles.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 shows the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 352 Foot Spillway

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillway.
- Lights illuminating the forebay area
- Two "DANGER, STAY BACK" signs (2 and 3) are located on the station railing facing upstream and on the south shore 500 feet above the dam facing upstream, respectively.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance, the parking area and the substation.
- "DANGER, HIGH VOLTAGE" signs (6) are located on each side of the chain link fence surrounding the substation.
- Two "DANGER, HYDRO STATION" signs (7) are located on the front gate to the powerhouse and on the south shore of the dam facing the shoreline, respectively.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

Two "DANGER, STAY BACK!" signs (4 and 5) are located on the powerhouse adjacent to the outflow and on the dam abutment near the south shore, respectively.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

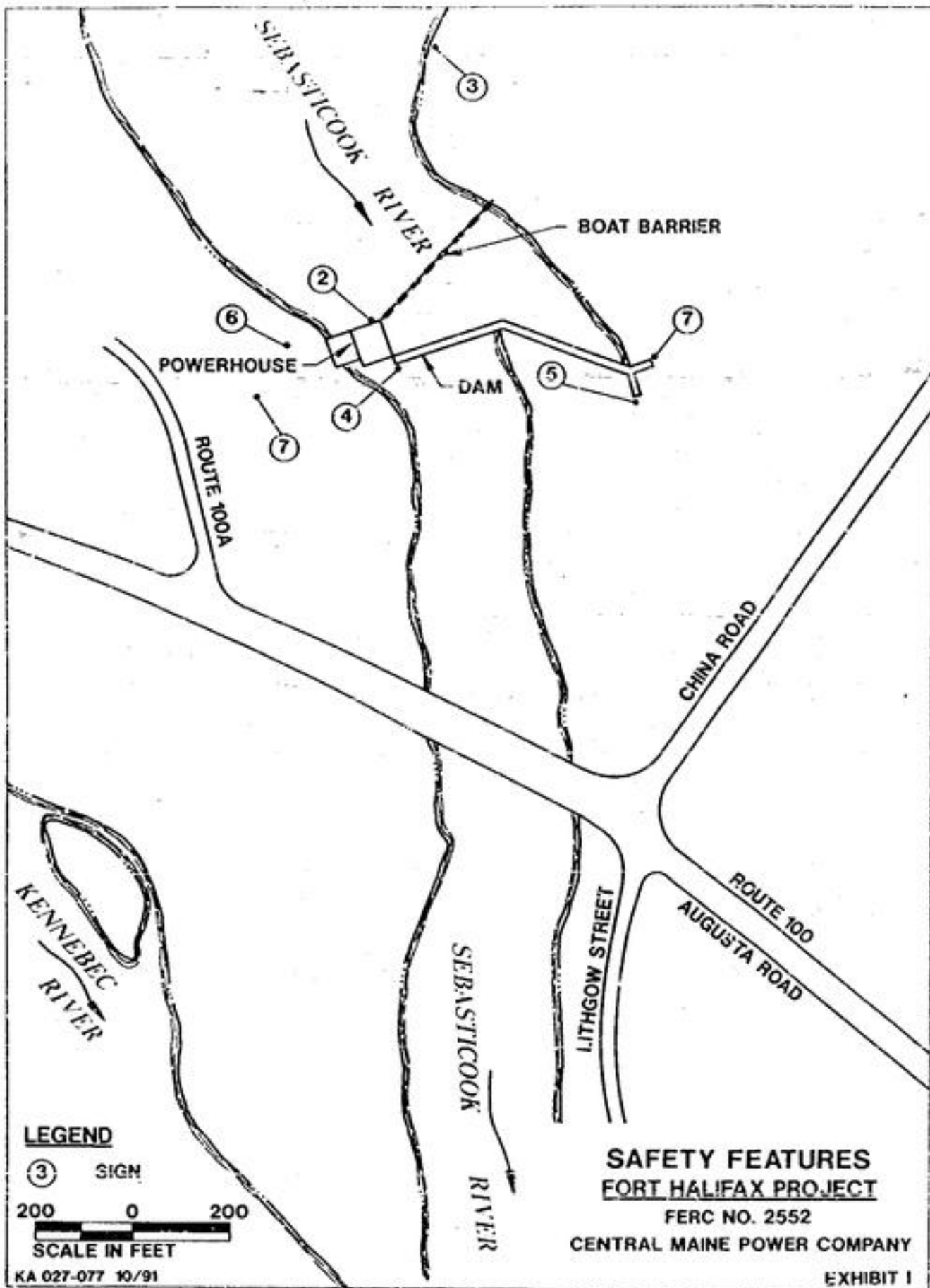
3. Additional items

Fort Halifax is located in a small town to urban environment. Current use for headpond and tailrace recreation is moderate.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1



LEGEND



SIGN

200 0 200



SCALE IN FEET

KA 027-077 10/91

**SAFETY FEATURES
FORT HALIFAX PROJECT**

FERC NO. 2552

CENTRAL MAINE POWER COMPANY

EXHIBIT I

0931 0000

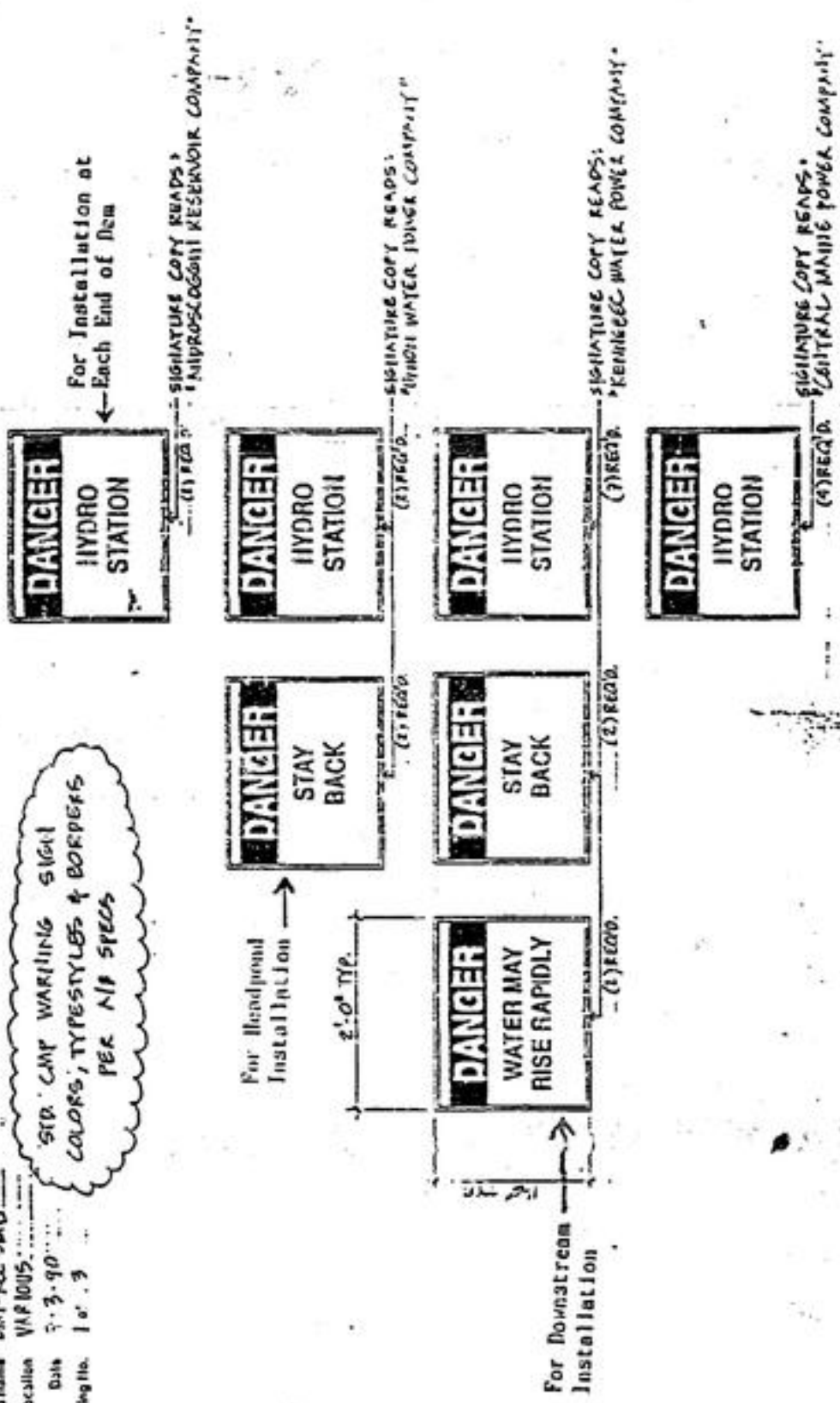
EXHIBIT 2

Shop Drawing

Work Order No. **K-192**
 Job Name **CMP REC-5405**
 Job Location **VAP 1005**
 Date **3-3-90**
 Drawing No. **1 of 3**

For Shop Use only
 Customer Approval

STD. CMP WARNING SIGN
 COLORS, TYPESTYLES & BORDERES
 PER NIP SPECS



FACE LAYOUTS - S/F N/L - 080 NOM. SIGNS w/ SIGNL COPY
 SCALES 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Unit Cost Per Sign Installed - \$17)

Shop Drawing

Work Order No. 19492
 Job Name CAMP - REC SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

Shop Use Only Upon
 Customer Approval

Date:

4'-0" TYP.

DANGER
 STAY
 BACK

Manufactured by American Sign Company

(1) REQ'D.

For Installer
 Installation

DANGER
 STAY
 BACK

Manufactured by American Sign Company

(1) REQ'D.

DANGER
 WATER MAY
 RISE RAPIDLY

Manufactured by American Sign Company

(2) REQ'D.

DANGER
 WATER MAY
 RISE RAPIDLY

Manufactured by American Sign Company

(2) REQ'D.

For Downstream
 Installation

STD. CAMP WARNING
 SIGN COLORS, TYPE,
 STYLES & BORDERS I.I.R.
 A.P. SPEC.

Neokraf

Manufactured by American Sign Company, Inc.
 P.O. Box 1000
 St. Louis, MO 63103

PAGE LAYOUTS -- SEE I.I.R. OR O.M. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0"
 (3) TOTAL 3'x4' PANELS

TYPICAL SAFETY SIGN
 VISIBLE FOR 300 FT.

(Approximate Unit Cost For
 Installed 1.00)

WARNING SIGNS-TO BE CONSPICUOUSLY PRINTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR,
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

- ONE "DANGER HIGH VOLTAGE" SIGN S/C 82-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C 82-5615 AT EACH VEHICLE ENTRANCE

2 TWISTED STRANDS, #11 ALUMINUM COATED STEEL WIRE WITH .08" FOUR POINT BARBS, SPACED 4" APART.

FABRIC CLIPPED TO ALL POSTS, TOP RAIL & TENSION WIRE AT A MAXIMUM OF 24 INCH INTERVALS

TOP RAIL 1.66" OD SS-40, GALV. TUBING

ALUMINUM ALLOY WEATHER CAP TYPE EXTENSION 1/4" LONG, PINNED TO POST, EXTENDING AT 45° WITH 3 BARBED WIRE SLOTS

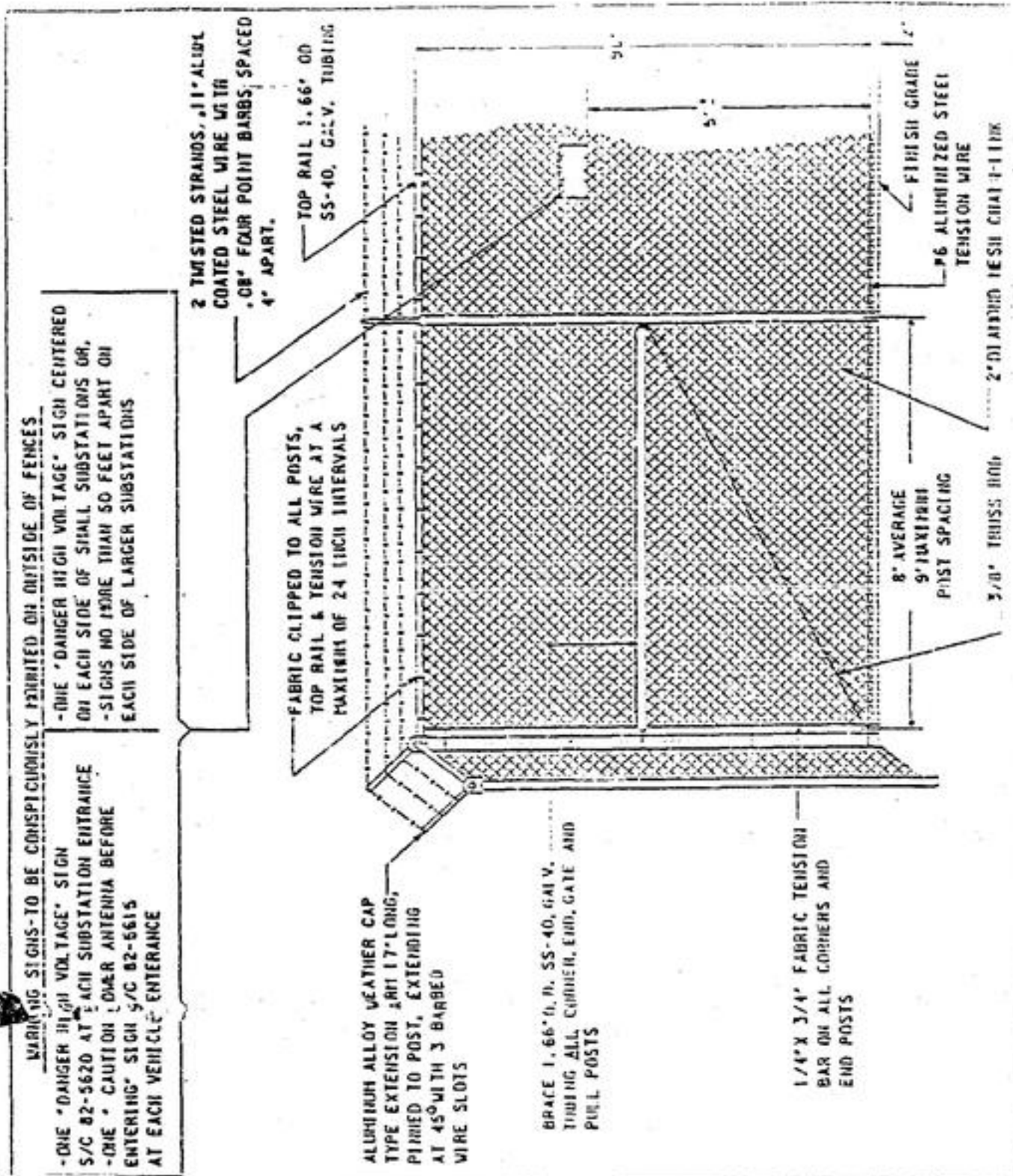
BRACE 1.66" O.D. SS-40, GALV. TUBING ALL CORNER, END, GATE AND PULL POSTS

1/4" X 3/4" FABRIC TENSION BAR ON ALL CORNERS AND END POSTS

8" AVERAGE 9' MAXIMUM POST SPACING

2" DI ALUMINUM MESH CHAIN LINK

F155H GRADE #6 ALUMINIZED STEEL TENSION WIRE



**SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY**

**FENCING
MATERIAL & STRUCTURAL
DETAILS**

APPROVED: *[Signature]*
DATE: 1-23-77

I-C-2

MESSALONSKEE STREAM HYDRO PUBLIC SAFETY PLANS
(Oakland, Rice Rips, Automatic and Union Gas)

**MESSALONSKÉE STREAM HYDRO PUBLIC SAFETY PLANS
(Oakland, Rice Rips, Automatic and Union Gas)**

1. Project Features

The Messalonskee Project (Numbers 2559, 2557, 2555, and 2556) is composed of four discrete hydroelectric generating facilities and one storage facility, located on Messalonskee Stream in Kennebec County, Maine. These developments are currently licensed as individual projects, with the storage facility, Messalonskee Lake dam, included in the existing Oakland Project.

Messalonskee Stream from the Messalonskee Lake dam to the Kennebec River is an approximately 10-mile-long tributary which drains an area of 177 square miles at the Messalonskee Lake dam. Messalonskee Lake dam impounds Messalonskee Lake, the storage facility, and is operated to provide water to the downstream generating stations with specific voluntary restrictions on the amount and timing of drawdown.

The four small generating facilities are operated to utilize available flows that are released from the Messalonskee Lake dam. These Project facilities, beginning with the most upstream, are the Messalonskee Lake Development, the Oakland Development, the Rice Rips Development, the Automatic Development, and the Union Gas Development. Figure A-1 provides a location map which shows the interrelationship of the component developments.

The Messalonskee Lake dam is an L-shaped gravity structure, constructed of concrete and granite block masonry, approximately 150 feet long. The dam is operated to maintain the lake levels and provide storage of water for downstream generating stations. Messalonskee Lake at a normal water surface elevation of 235.9 feet extends upstream 9.1 miles from the outlet dam, has a surface area of 3,600 acres and a shoreline of 33 miles.

The Oakland Development is the most upstream of four discrete hydroelectric facilities operated by the Licensee on Messalonskee Stream. The Oakland Development receives its inflow directly from water released at the Messalonskee Lake dam. The Development structures consist of a dam, intake structure, penstock, powerhouse, and tailrace. The Oakland Development impoundment at a normal water surface elevation of 207.1 feet extends 1,500 feet upstream, has a surface area of 10 acres and a shoreline of about one mile.

The Rice Rips Development receives its inflow from the Oakland Development, 1.9 miles upstream. The Development consists of a concrete Ambursen dam, an intake structure, a penstock, a surge pond, a powerhouse with appurtenances, and a tailrace. The Rice Rips Development impoundment at a normal water surface elevation of 139.1 feet extends upstream 1.6 miles, has a surface area of 87 acres and a shoreline of 4 miles.

The Automatic Development is located 5.6 miles downstream of the Rice Rips Development dam. The Development's structures are located in the City of Waterville, and the impoundment extends into Oakland. The Development structures consist of a dam with integral powerhouse, appurtenances, and tailrace. The Automatic Development impoundment at a normal water surface elevation of 94.3 feet extends upstream 4.5 miles, has a surface area of 68 acres, and a shoreline of 10 miles.

The Union Gas Development is the furthest downstream of the Messalonskee Stream generating facilities. The dam is located 0.9 mile upstream of the confluence of the Kennebec River and Messalonskee Stream. The Development's structures consist of the dam and adjacent powerhouse, appurtenances, and the tailrace.

The Union Gas impoundment extends upstream 1.5 miles to the Automatic Development tailrace. The impoundment at a normal high water level of 69.1 feet, has a surface area of 25 acres and a shoreline of 3 miles. The Development is operated using an automated float control, and utilizes the leakage flow from Messalonskee Lake dam which is passes through the Messalonskee Stream system, as well as runoff from the various small intervening drainages that are located along the stream's course. The impoundment is fluctuated up to 1.3 feet to provide additional generating capability when the other developments are not operating.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facilities. The maps in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

- 2.1 80 Foot Spillway at Oakland (M2) Hydro
- 86 Foot Spillway at Rice Rips (M3) Hydro
- 44 Foot Spillway at Automatic (M4) Hydro
- 32 Foot Spillway at Union Gas (M5) Hydro

2.1.1 Existing Safety Devices

- Boat barriers with signs ("DANGER, STAY BACK, HYDRO STATION") are located directly upstream of the spillways at Oakland Hydro, Rice Rips Hydro, and Automatic Hydro.
- Light illumination, the gate structures at Oakland Hydro, Rice Rips Hydro, Automatic Hydro, and Union Gas Hydro.
- Four "DANGER, STAY BACK" signs (2,3,4, and 5) are located at Oakland Hydro on the north side of the route 11 bridge on the upstream abutment; on the wooden portion of the water control dam, facing upstream; on the building on the water control dam, facing

- north; and on the building on the water control dam, facing south, respectively.
- A "DANGER, STAY BACK!" sign (2) is located at Rice Rips Hydro on the wooden portion of the dam structure, facing upstream.
- A "DANGER, STAY BACK!" sign (3) is located at Automatic Hydro on the dam railing, facing upstream.
- Three "DANGER, STAY BACK!" signs (2,3, and 4) are located at Union Gas Hydro on the center of the dam gatehouse, facing upstream; on the east end of the dam structure; and on the west end of the dam structure, respectively.
- A "SHALLOW WATER, DIVING IS DANGEROUS!" sign (5) is located at Union Gas Hydro on a hemlock in a small clearing on the east shore mid-way up the headpond.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillways.

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance and the substation at Oakland Hydro and the gate house at Snowpond; the powerhouse entrance and substation at Rice Rips Hydro; the powerhouse entrance and parking area at Automatic Hydro; and Powerhouse entrance and substation at Union Gas Hydro.
- "DANGER, HIGH VOLTAGE" signs (8,5, and 7) are located at Oakland Hydro, Rice Rips Hydro and Union Gas Hydro on each side of the chain link fence surrounding the substations, respectively.
- Two "DANGER, HYDRO STATION" signs (9) are located at Oakland Hydro on the north and south sides of the surge pond fencing.
- A "DANGER, STEEP SLOPE" sign (10) is located at Oakland Hydro on a tagged cedar tree approximately 15' from the start of the steep trail to the tailrace area.
- Two "DANGER, HYDRO STATION" signs (6) are located at Rice Rips Hydro at each end of the dam structure or fence, facing away from the dam.
- A "DANGER, STAY BACK!" sign (7) is located at Rice Rips Hydro on the wall of the surge tank above the intake.
- A "UNDERTOW! SWIMMING IS DANGEROUS" sign (8) is located at Rice Rips Hydro near the surge tank at the end of the access trail.
- A "DANGER, STAY BACK!" sign (5) is located at Automatic Hydro on the concrete structure immediately downstream from the dam.
- Two "DANGER, HYDRO STATION" signs (6 and 7) are located at Automatic Hydro on the east side overlook fence and on the west side gate to the dam, by the operator's building, respectively.

- Three "DANGER, HYDRO STATION" signs (8 (two signs) and 9) are located at Union Gas Hydro at each end of the dam structure or fence, facing away from the dam, and on the new fence in front of the powerhouse, respectively.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse areas.

2.3 Tailrace

2.3.1 Existing Safety Devices

- Two "DANGER, WATER MAY RISE RAPIDLY!" signs (6 and 7) are located at Oakland Hydro on the Route 23 bridge facing downstream and above the window of the powerhouse, facing downstream into the gorge, respectively.
- A "DANGER, STAY BACK!" sign (3) is located at Rice Rips Hydro on the wooden portion of the dam structure, facing downstream.
- A "DANGER, WATER MAY RISE RAPIDLY!" sign (4) is located at Rice Rips Hydro on the powerhouse above the outflow.
- A "DANGER, STAY BACK!" sign (4) is located at Automatic Hydro on the powerhouse, facing downstream.
- A "DANGER, WATER MAY RISE RAPIDLY!" sign (6) is located at Union Gas Hydro on the abutment to the right of the outflow.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace areas.

2.4 Recreation Area

The Waterville Boat Launch is located approximately 1 mile downstream of Lockwood Hydro on the Kennebec River and is provided by Central Maine Power Company.

2.4.1 Existing Safety Devices

A sign reading "CAUTION - CHANGING RIVER BOTTOM CONDITIONS" is seasonally posted at the launch facility.

2.4.2 Proposed Safety Devices

No safety devices are proposed for the recreation area.

3. Additional Items

Oakland is located in a rural town environment. The headpond is used for boating and the gorge is used for fishing.

Rice Rips uses a dam, penstock, and powerhouse with a surge tank. It is located in a natural to rural setting. The headpond is used for fishing and boating and the tailrace area is used for fishing.

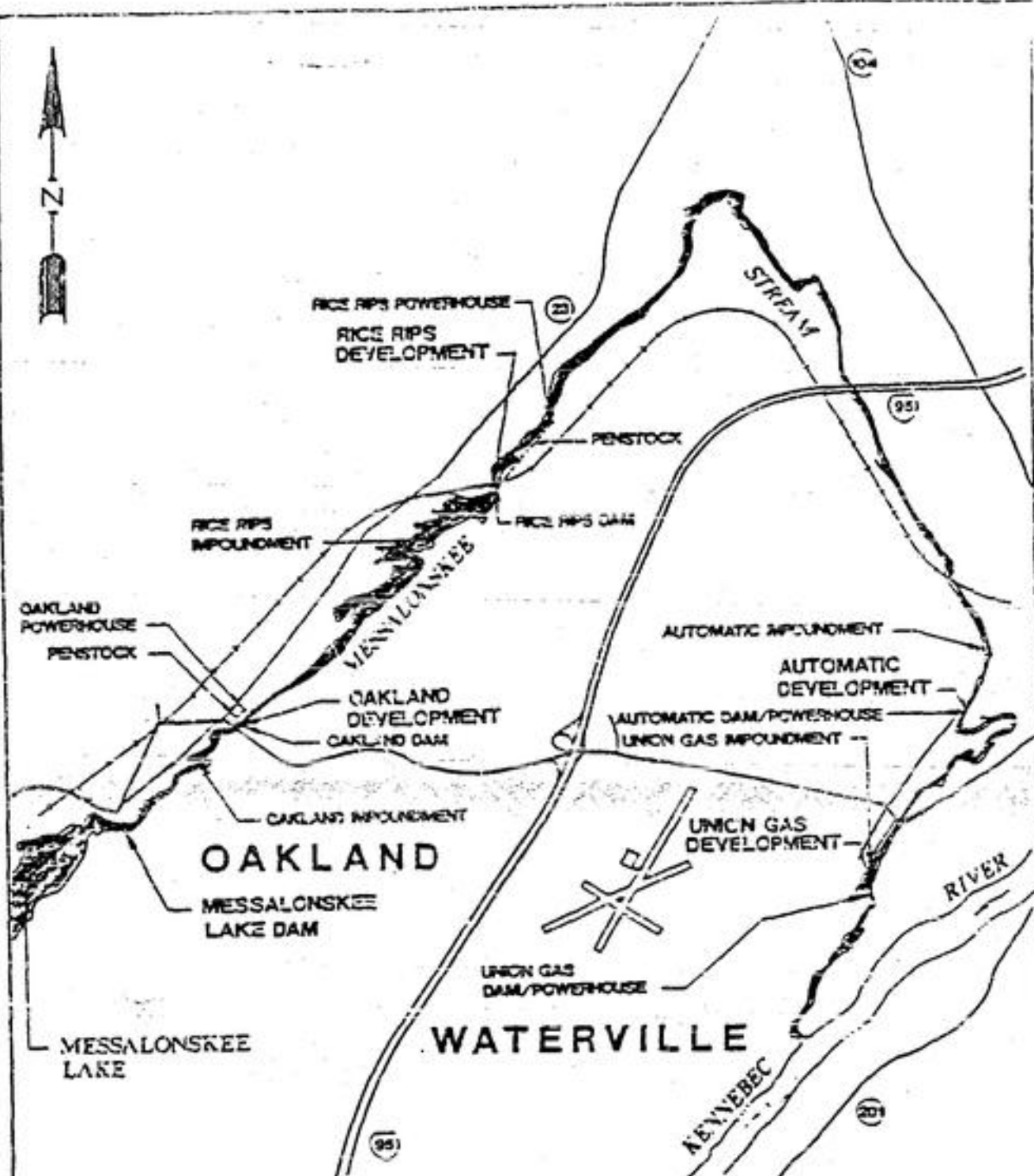
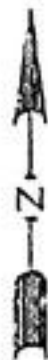
Automatic is located in a residential setting. Current use of both headpond and tailrace is low.

Union Gas is located in a rural town environment. Current use for headpond recreation is low to moderate.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

FIGURE A-1

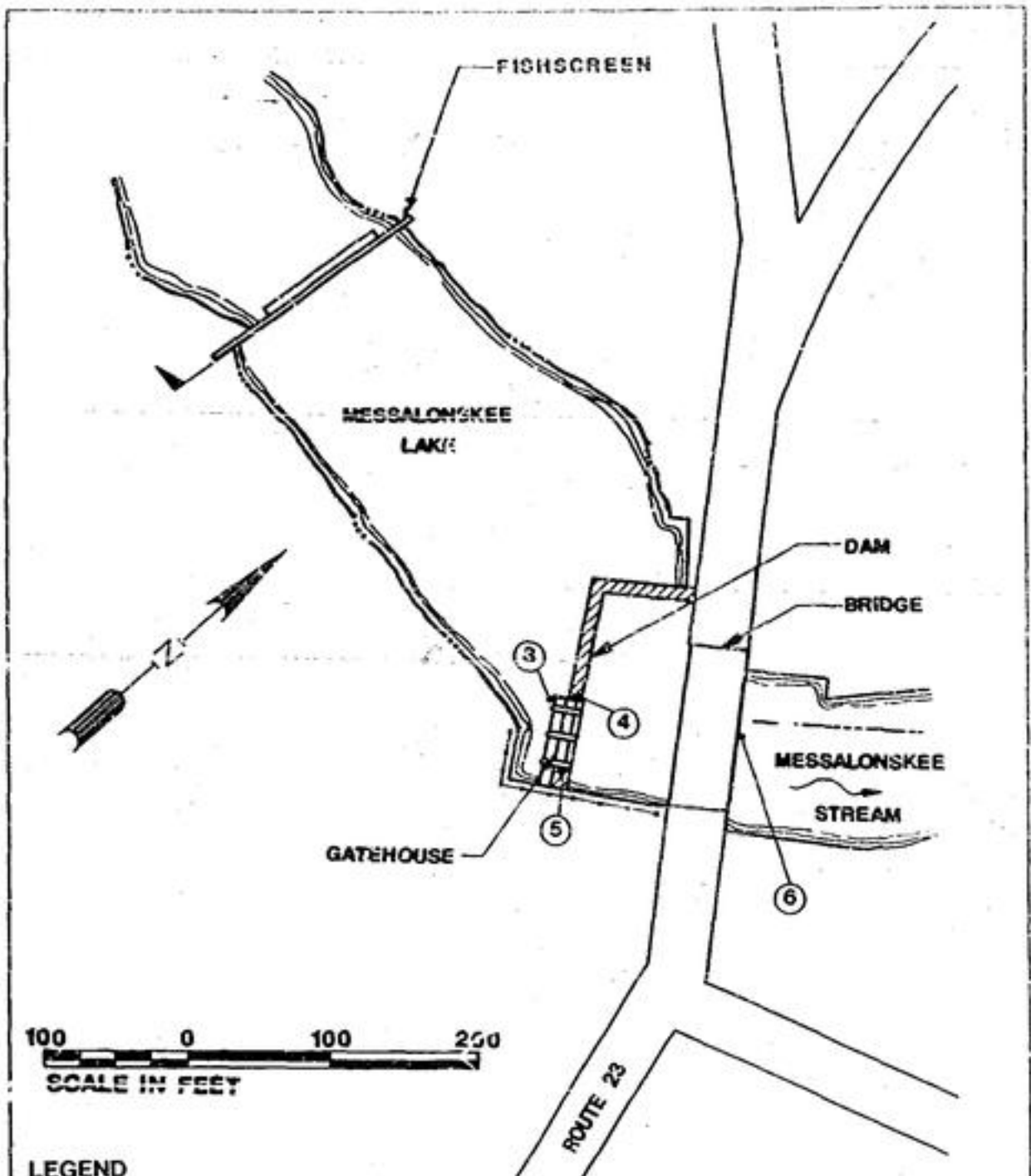


LOCATION MAP

CENTRAL MAINE POWER COMPANY

FIGURE A-1

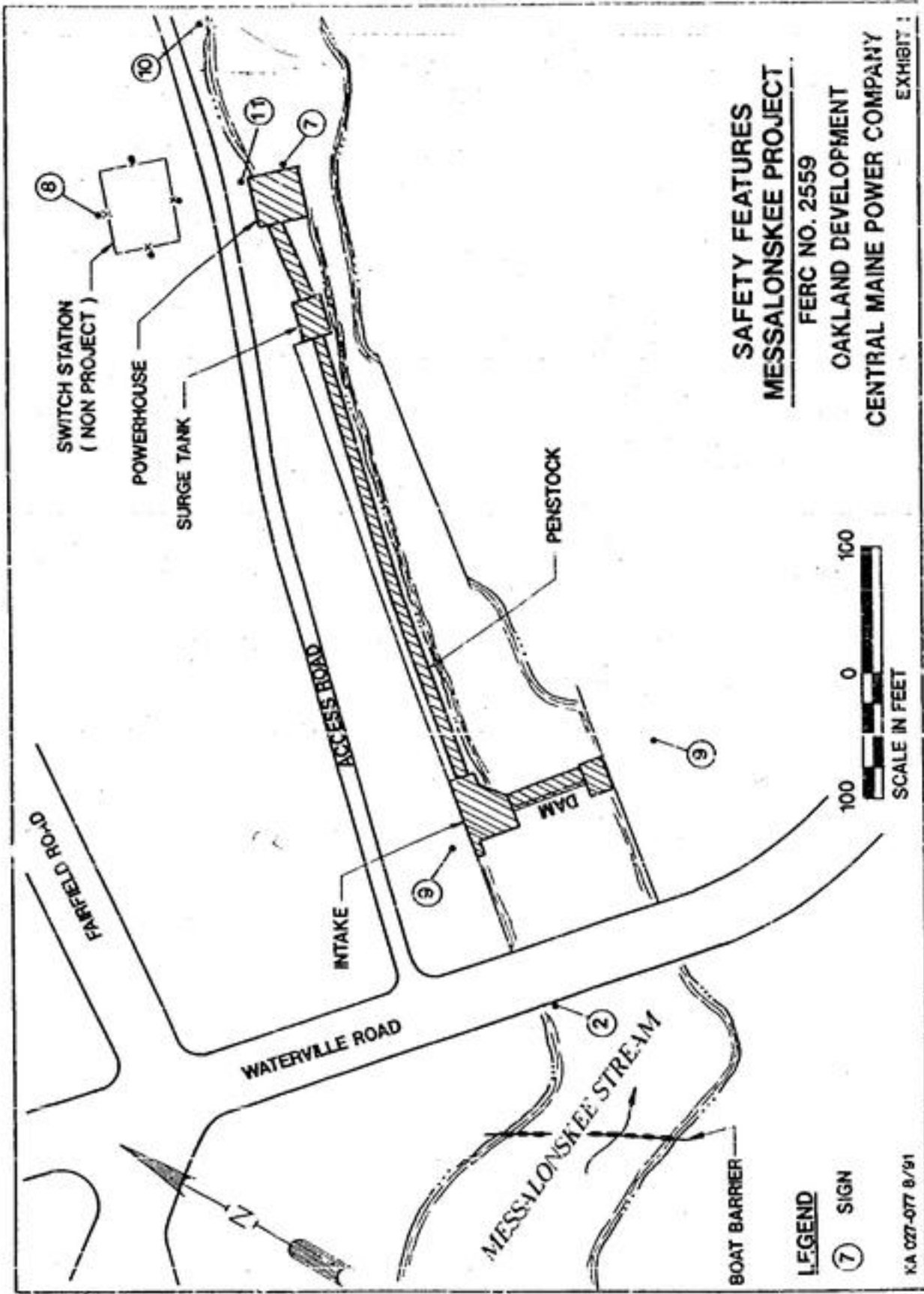
EXHIBIT 1



LEGEND

④ SIGN

SAFETY FEATURES
MESSALONSKEE PROJECT
 FERC NO. 2559
 MESSALONSKEE LAKE DAM
 CENTRAL MAINE POWER COMPANY



**SAFETY FEATURES
MESSALONSKEE PROJECT**

FERC NO. 2559

OAKLAND DEVELOPMENT

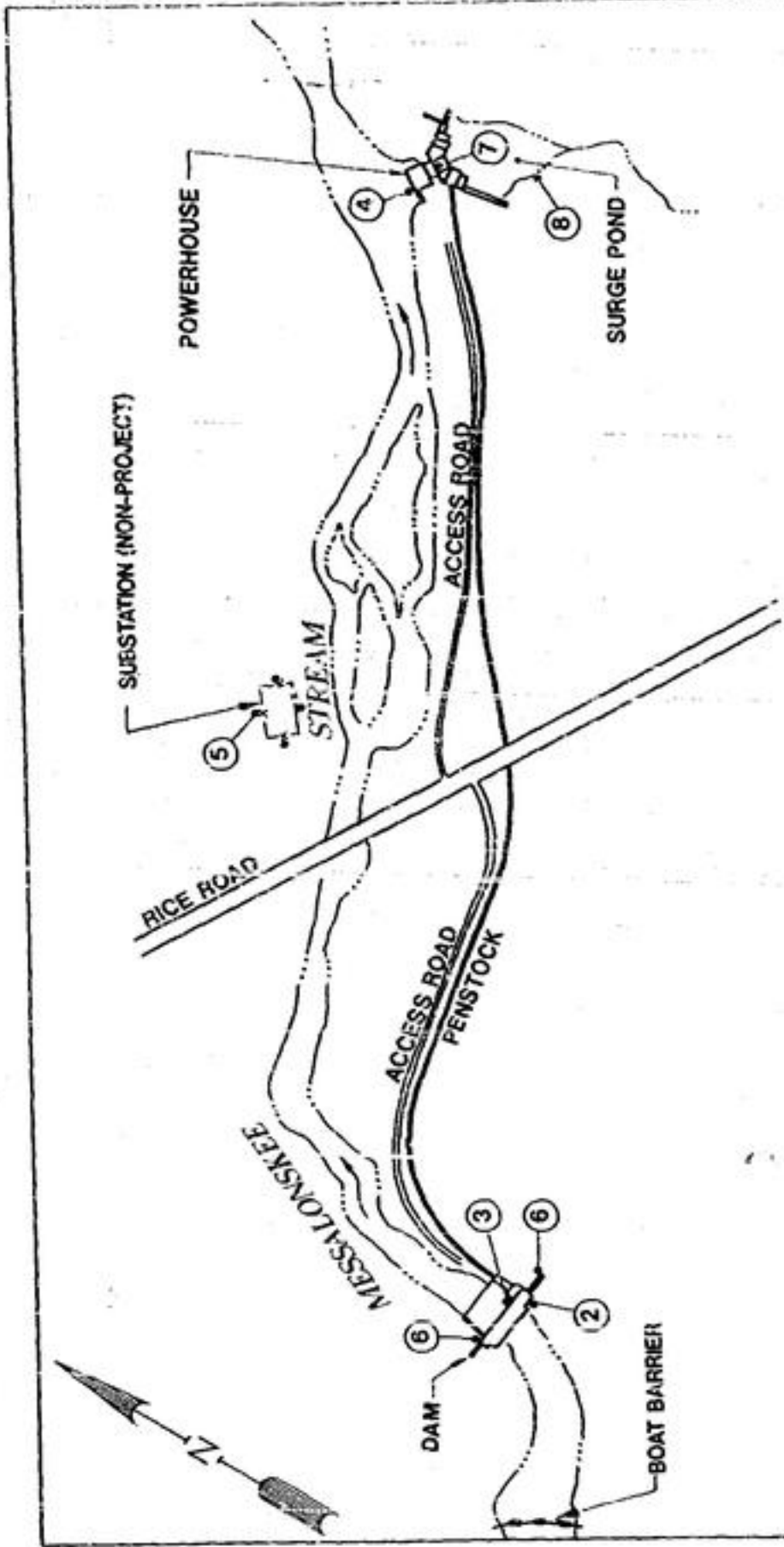
CENTRAL MAINE POWER COMPANY

EXHIBIT :

LEGEND

⑦ SIGN

KA 027-077 8/91



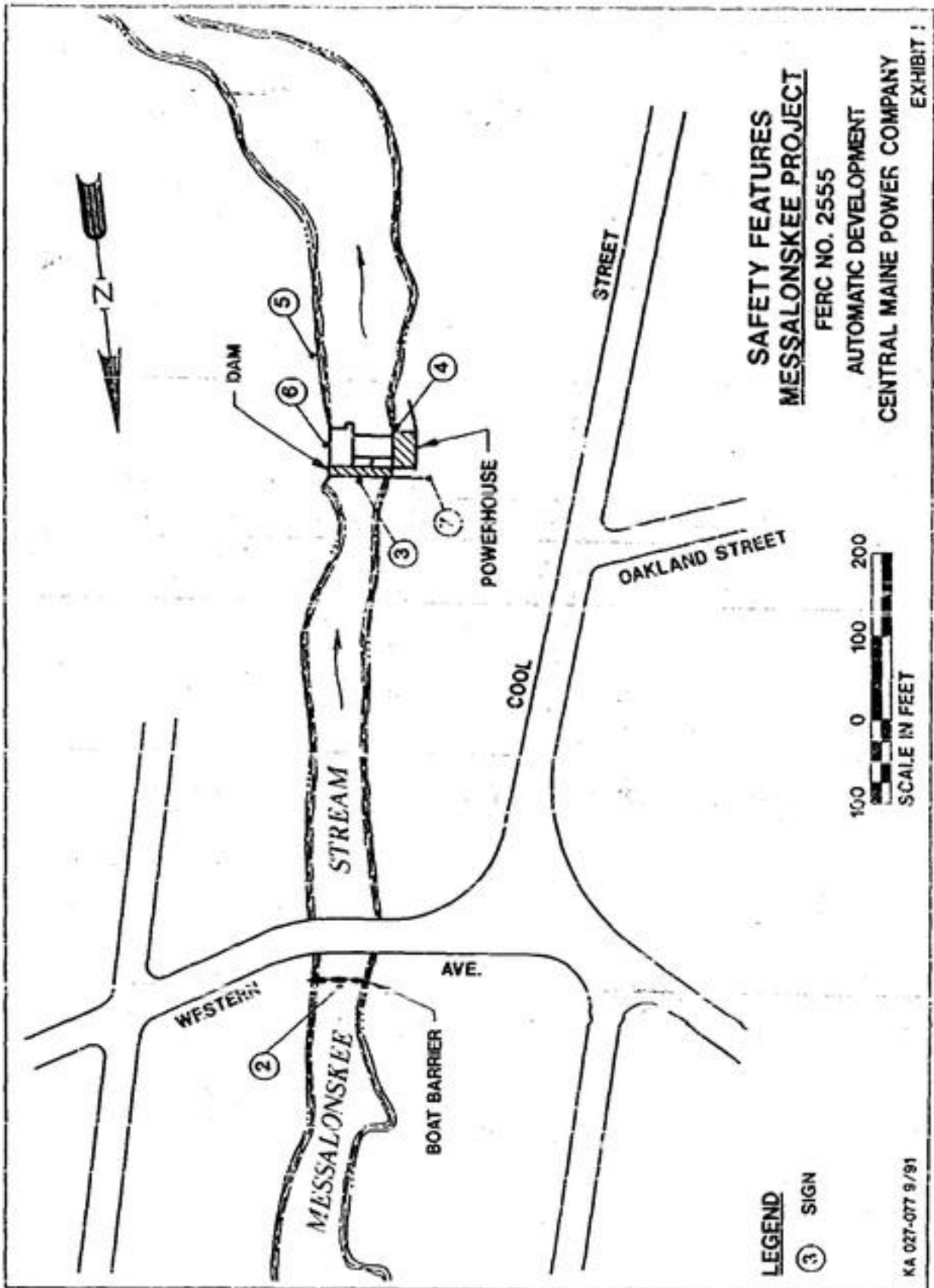
LEGEND

- ② SIGN

**SAFETY FEATURES
MESSALONSGEE PROJECT**

FERC NO. 2557
RICE RIPS DEVELOPMENT
CENTRAL MAINE POWER COMPANY
EXHIBIT 1



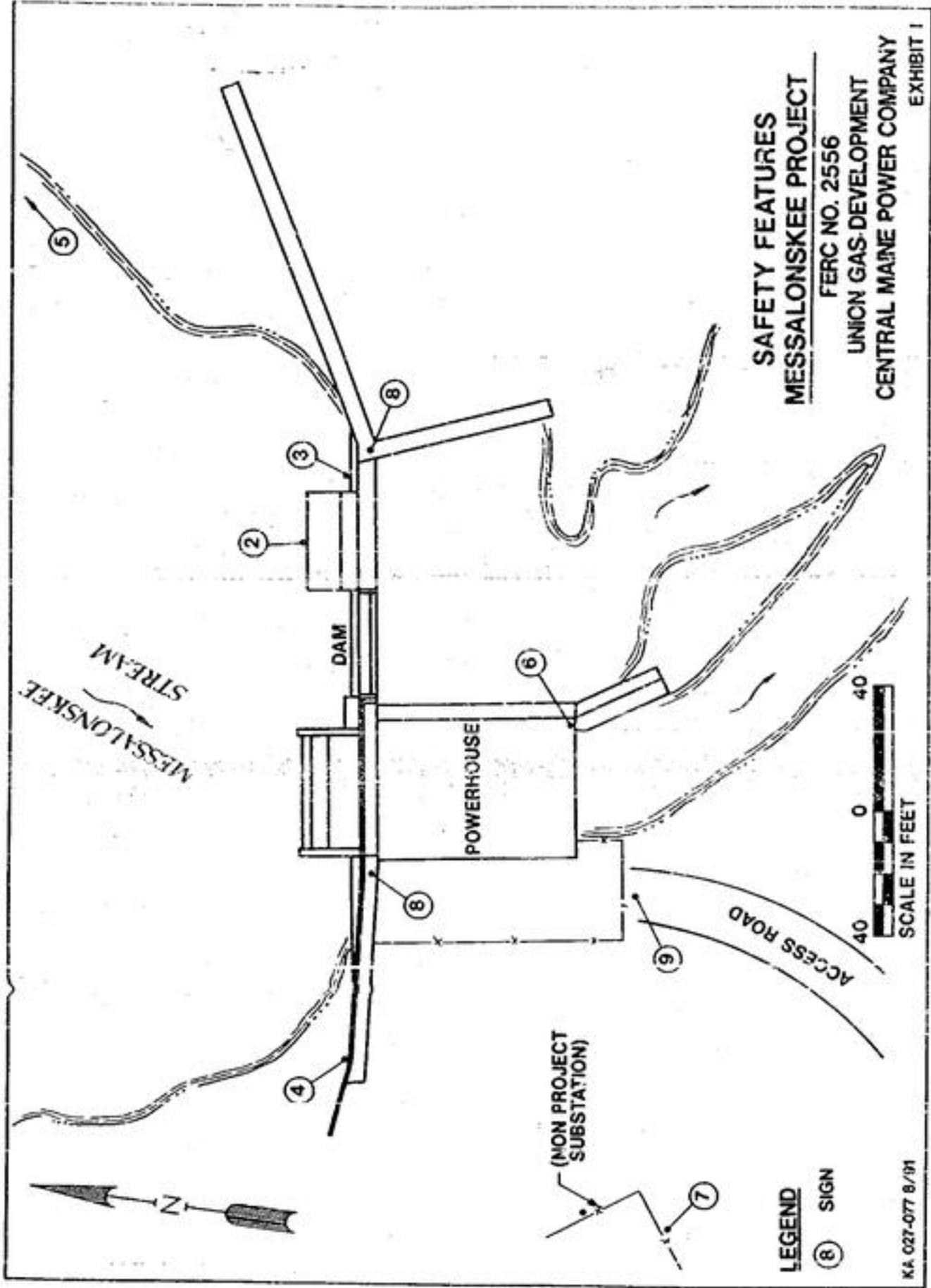


SAFETY FEATURES
MESSALONSKEE PROJECT

FERC NO. 2555
 AUTOMATIC DEVELOPMENT
 CENTRAL MAINE POWER COMPANY
 EXHIBIT 1

LEGEND
 (3) SIGN

KA 027-077 9/91



**SAFETY FEATURES
MESSALONSKEE PROJECT**

FERC NO. 2556

UNION GAS DEVELOPMENT
CENTRAL MAINE POWER COMPANY

EXHIBIT 1

MESSALONSKEE
STREAM

DAM

POWERHOUSE

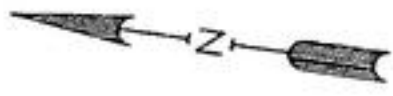
ACCESS ROAD

(NON PROJECT
SUBSTATION)

LEGEND

⑧ SIGN

KA 027-077 8/91



0000 5480

EXHIBIT 2



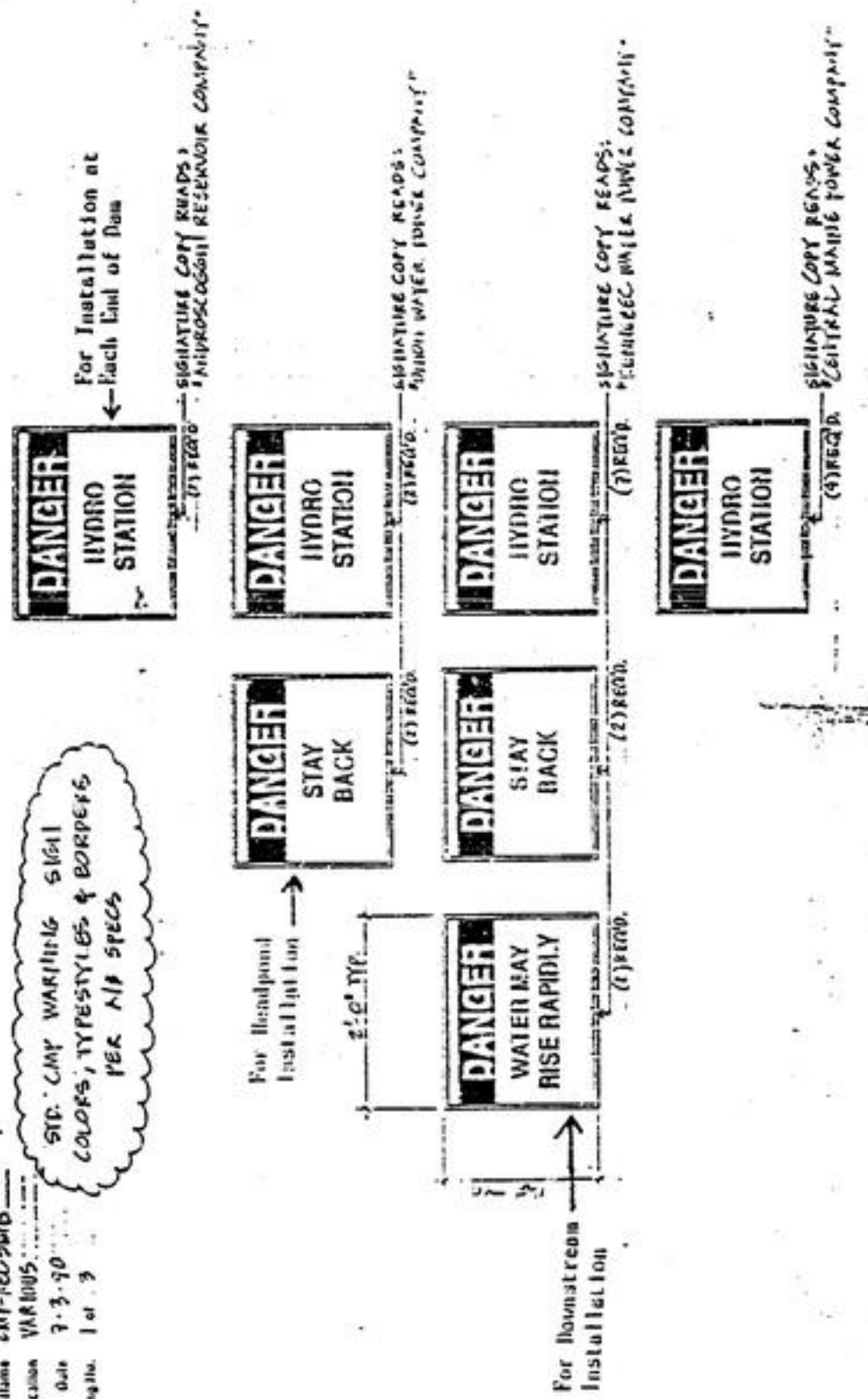
Shop Drawing

For Shop Use Only
Customers Approval

Work Order No. **H492**
Job Name **CAF-REG-SUB**
Job Location **VARIOUS**
Date **7-3-90**
Drawing No. **1 of 3**

STD. CAN WARNING SIGNAL
COLORS, TYPESTYLES & BORDERS
PER A/E SPECS

Neokral
Manufacturers of Signs and More at
10000 E. 10th Ave. #100
Denver, CO 80231



FACE LAYOUTS - 5/8" MIN. CHAR. MIN. SPACES W/ MIN. 1" COPY
SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
VISIBLE FOR 100 FT.
(Approximate Unit Cost For Signs
Installed ... \$1.00)

Shop Drawing

Work Order No. 15492
 Job Name CMP - REG SIGNS
 Job Location VARIOUS
 Date 7-3-90
 Drawing No. 3 of 3

DATE:
 BY:



DANGER

STAY
BACK

(1) REQ'D.



DANGER

WATER MAY
RISE RAPIDLY

(2) REQ'D.



DANGER

STAY
BACK

(1) REQ'D.



DANGER

WATER MAY
RISE RAPIDLY

(3) REQ'D.

STD. CMP WARNINGS
SIGN COLORS, TYPE
STYLES & BORDERS II
A/C SPEC.

FACE LAYOUTS -- SEE P/L. ORD. NUM. SIGNS W/ VINYL COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Hull Cost Per Sign)

WARNING SIGNS TO BE CONSPICUOUSLY MOUNTED ON OUTSIDE OF FENCES

- ONE "DANGER HIGH VOLTAGE" SIGN CENTERED ON EACH SIDE OF SMALL SUBSTATIONS OR,
- SIGNS NO MORE THAN 50 FEET APART ON EACH SIDE OF LARGER SUBSTATIONS

- ONE "DANGER HIGH VOLTAGE" SIGN S/C B2-5620 AT EACH SUBSTATION ENTRANCE
- ONE "CAUTION LOWER ANTENNA BEFORE ENTERING" SIGN S/C B2-6616 AT EACH VEHICLE ENTRANCE

2 TWISTED STRAITS, 11" ALUM.
COATED STEEL WIRE WITH
.08" FOUR POINT BARBS SPACED
4' APART.

FABRIC CLIPPED TO ALL POSTS,
TOP HAT: A TENSION WIRE AT A
MAXIMUM OF 24 INCH INTERVALS

TOP RAIL 1.66" OD
SS-40, GALV. TUBING

ALUMINUM ALLOY WEATHER CAP
TYPE EXTENSION AND 17" LONG,
PINNED TO POST, ENDING
AT 45° WITH 3 BARBS
WIRE SLOTS

BRACE 1.66" O.D. SS-40, GALV.
TUBING ALL CORNERS, END, GATE AND
PULL POSTS

1/4" X 3/4" FABRIC TENSION
BAR ON PULL-INS AND
END POSTS

8' AVERAGE
9' MAXIMUM
POST SPACING

FRESH GRADE
- P6 ALUMINIZED STEEL
TENSION WIRE

3/8" THICK IRON 2" DI ALUMINUM TESH CHAIR-111K



SUBSTATION STANDARDS
CENTRAL MAINE POWER COMPANY

**FENCING
MATERIAL & STRUCTURAL
DETAILS**

APPROVED: *[Signature]* *[Signature]*

I-C-2

LOCKWOOD HYDRO PUBLIC SAFETY PLAN

LOCKWOOD HYDRO PUBLIC SAFETY PLAN

1. Project Features

The Lockwood Project No. 2574 is located on the Kennebec River in the municipalities of Waterville and Winslow, Maine. The project consists of a dam, an impoundment, a forebay canal, and two powerhouses, one containing six turbine generators and the other a single turbine generator and appurtenant equipment.

At normal full pond the reservoir extends upstream approximately 1.2 miles to the Scott Paper Company dam, has a surface area of 81.5 acres, and a shoreline of 2.5 miles. Because the reservoir contains no appreciable storage capacity, the project operates as a run-of-river facility.

The project is located in a highly industrialized, urban area. Spanning the headpond is a vehicular bridge, a railroad bridge, and a historic foot bridge.

2. Project Facilities

This section of the Public Safety Plan describes the project facilities along with the existing and proposed safety devices for the facility. The map in Exhibit 1 show the location of each safety device and Exhibit 2 contains a picture of each safety device along with its specifications. The number in ()'s refer to each existing safety device and to its location on Exhibit 1.

2.1 Spillway varies from 5 to 18 Feet

2.1.1 Existing Safety Devices

- Lights illuminating the head works structure.
- A "DANGER, STAY BACK" sign (2) is located on the upstream side of the head gates.

2.1.2 Proposed Safety Devices

No additional safety devices are proposed for the spillway

2.2 Powerhouse

2.2.1 Existing Safety Devices

- Lights illuminating the powerhouse entrance and parking area.
- Two "DANGER, HYDRO STATION" signs (4) are located on the front gate of the powerhouse and on the fence near the head works, respectively.

2.2.2 Proposed Safety Devices

No additional safety devices are proposed for the powerhouse area.

2.3 Tailrace

2.3.1 Existing Safety Devices

- A "DANGER, STAY BACK!" sign (3) is located on the downstream side of the powerhouse, above the out-flow.

2.3.2 Proposed Safety Devices

No additional safety devices are proposed for the tailrace area.

3. Additional Items

Lockwood is a large mill-building project immediately downstream of a falls. It is located in an urban setting immediately adjacent to a working industrial facility.

In the interest of public safety, the project reservoir is fenced on the City of Waterville's property in agreement with the City to prevent the launching of boats. Public access of bank fishing is allowed.

4. Summary

The safety devices for the public are inspected at a minimum at least annually and more frequently during normal work at the project especially during the fishing and boating seasons. All signs will be maintained by Central Maine Power Company.

EXHIBIT 1

EXHIBIT 2

Shop Drawing

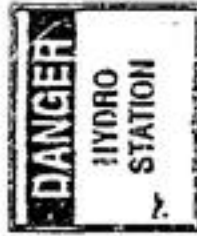
Work Order No. **H49Z**
 Job Name **CNF-REC-SK15**
 Job Location **VAR 1005**
 Date **7-3-90**
 Drawing No. **1 of 3**

For Shop Use only
 Customer Approval

Neokra

STD. CMY WARNING SIGN
 COLORS, TYPESTYLES & BORDERES
 PER A/E SPECS

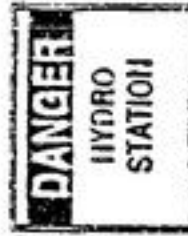
For Installation at
 Each End of Dam



SIGNATURE COPY READS:
 "HYDROSCOPIC RESERVOIR COMPART"

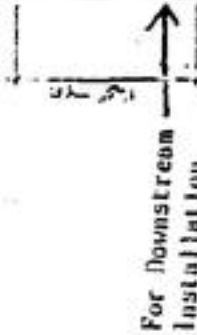


(1) REQD.



(1) REQD.

SIGNATURE COPY READS:
 "HYDRO WATER POWER COMPART"



(1) REQD.



(2) REQD.



(2) REQD.

SIGNATURE COPY READS:
 "KENNEBEC WATER POWER COMPART"



(4) REQD.

SIGNATURE COPY READS:
 "CENTRAL MAIN POWER COMPART"

FACE LAYOUTS - S/F N/L - 080 NUM. SEALS w/ VISIBLE COPY
 SCALE: 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Unit Cost For
 Installed)



Shop Drawing

Work Order No. 1949
 Job Name **CMP - REC-SIS/IS**
 Job Location **VAR(D)IS**
 Date **7-5-90**
 Drawing No. **3** of **3**

For Shop Use Only
 Customer Approval Date:



(1) REQ'D.



(2) REQ'D.



(1) REQ'D.



(2) REQ'D.

STD. CMP WARNINGS
 SIGN COLORS, TYPE
 STYLES & BORDERS I.E.
 A/E SPEC.

FACE LAYOUTS -- SEE ILL. PRO NUM SIGNS W/ VINYL COPY
 SCALE 1" = 1'-0"

TYPICAL SAFETY SIGN
 VISIBLE FOR 100 FT.

(Approximate Unit Cost For Installed Signs)

