20020214-0687 FERC PDF (Unofficial) 02/13/2002

and the Settlement.[13] The Commission has considered all the comments and interventions in determining whether, and under what conditions, to issue this relicense.

PROJECT DESCRIPTION

The Raquette River, with a drainage basin of 1,269 square miles, originates in the Adirondack Mountains, flows generally north-northwest for more than 120 miles, and empties into the St. Lawrence River near Massena, New York. Most of the basin is sparsely populated, with much of the land forested and brushland. The region's economy depends primarily on recreational tourism and timber-based industries.

The Upper Raquette River Project consists of five developments (from upstream to downstream): Stark, Blake, Rainbow, Five Falls, and South Colton. The five developments have a total installed capacity of 102,389 kW and are located in a 16-mile reach of the Raquette River commencing 52 miles above its confluence with the St. Lawrence River.

The Stark development includes a 35-foot-high dam with an overflow section; seven earthen dikes totaling approximately 3,700 feet in length; a reservoir; an intake with trashracks, a slide gate, and a 651-foot-long pipeline; and a powerhouse containing a 23,872-kW generating unit.

The Blake development has a 75-foot-high dam; three earthen dikes totaling approximately 1,840 feet in length; a reservoir; an intake with a 731-foot-long pipeline; and a powerhouse containing a 13,913-kW generating unit.

The Rainbow development has a 81.5-foot-high dam; two earthen dikes, approximately 2,570 feet in length; a reservoir; an intake with a 645-foot-long pipeline; and a powerhouse containing a 22,828-kW generating unit.

The Five Falls development includes a 50-foot-high dam with an overflow spillway and a stoplog section, flanked at each end by dikes totaling approximately 1,190 feet in length; a reservoir; a gated intake with a 1,399-foot-long pipeline; and a powerhouse containing a 22,828-kW generating unit.

---

[13]The Mountain Club, Interior, and NYSDEC filed comments in support of this recommendation.

20020214-0687 FERC PDF (Unofficial) 02/13/2002

The South Colton development includes a 45-foot-high dam with an overflow spillway and a stoplog section; a reservoir; a gated intake with a 1,300-foot-long pipeline; and a powerhouse containing a 18,948-kW generating unit.[14]

As currently licensed, and proposed to be relicensed, these developments are operated run-of-river with pondage mode using releases from the Carry Falls Project.[15]

WATER QUALITY CERTIFICATION

Under Section 401(a)(1) of the Clean Water Act (CWA),[16] the Commission may not issue a license for a hydroelectric project unless the state water quality certifying agency has issued a water quality certification for the project or has waived certification. Section 401(d) of the CWA provides that state certification shall become a condition of any federal license or permit that is issued.[17] Only a reviewing court can revise or delete these conditions.[18]

NYSDEC issued water quality certification for the Upper Raquette Project on June 11, 1998.[19] As discussed in the lead order, the certification includes standard terms and conditions and the "terms and conditions of the . . . Settlement."[20] We have appended to this license the water quality certification, which includes the standard terms and conditions thereof and the requirements of the Settlement that are applicable to this

---

[14]A more detailed project description is contained in ordering paragraph B(2).

[15]This means that the licensee uses/releases flows received from upstream developments and in addition may use/release water stored in the particular reservoir (pondage), subject to drawdown limitations.

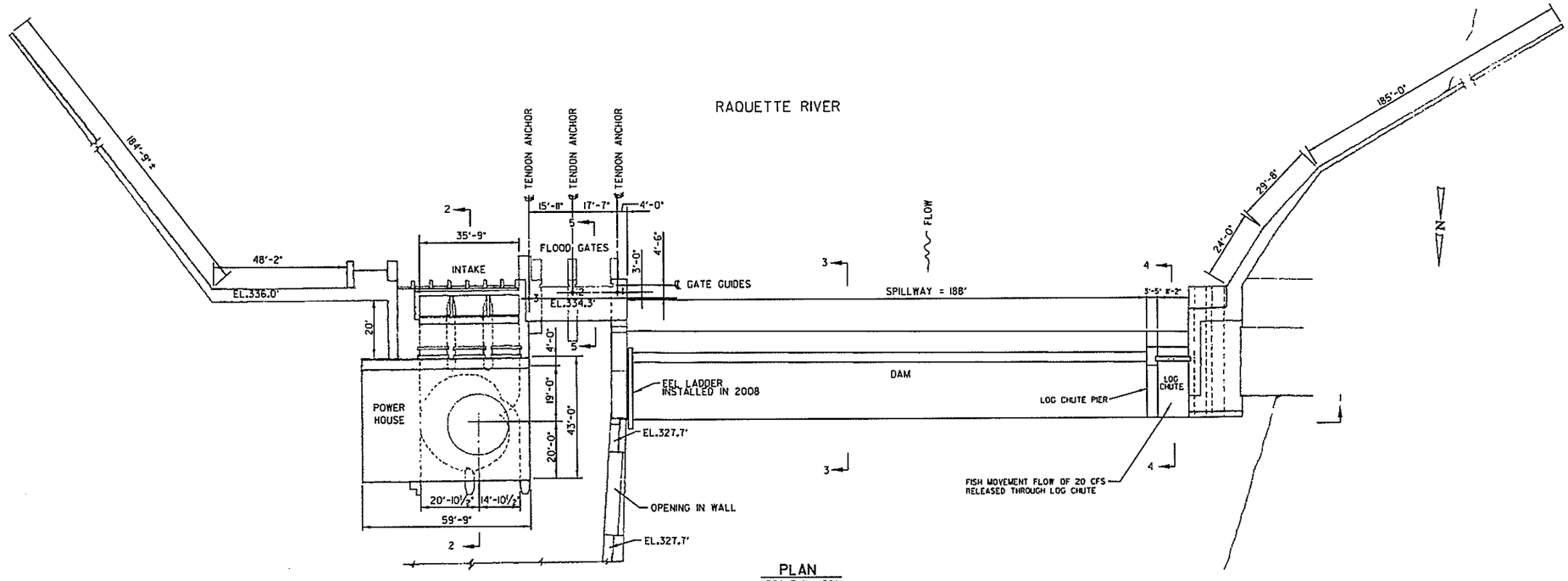
[16]33 U.S.C. § 1341(a)(1).

[17]33 U.S.C. 1341(d).

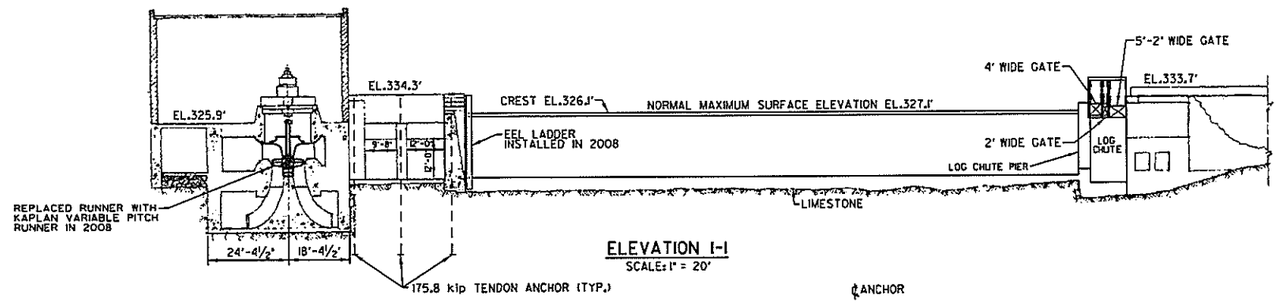
[18]See American Rivers v. FERC, 129 F.3d. 99 (D.C. Cir. 1997).

[19]The certification was filed by the licensee on June 22, 1998.

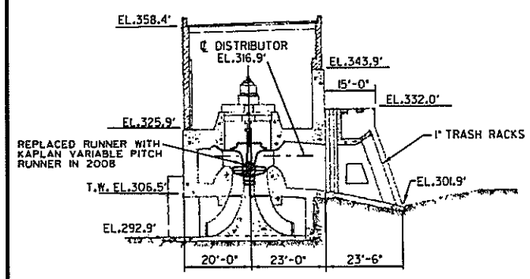
[20]See Water Quality Certification section of lead order.



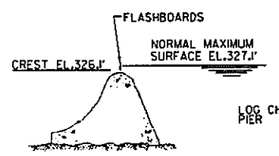
PLAN
SCALE: 1" = 20'



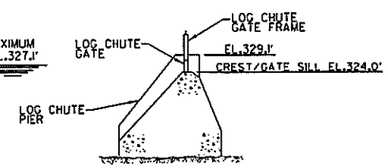
ELEVATION 1-1
SCALE: 1" = 20'



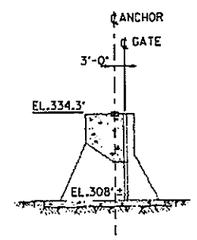
SECTION 2-2
(THRU POWERHOUSE)
SCALE: 1" = 20'



SECTION 3-3
(THRU SPILLWAY)
SCALE: 1" = 20'



SECTION 4-4
(THRU LOG CHUTE)
SCALE: 1" = 20'



SECTION 5-5
(THRU FLOOD GATES)
SCALE: 1" = 20'

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
6	2/15/11	ORDER APPROVING REVISED EXHIBIT F DRAWING	PA	DGO	DGO
5	8/24/10	LICENSE AMENDMENT; REVISED TURBINE & LOG CHUTE AND ADDED EEL LADDER	CAL	DGO	DGO
4	2/15/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TWS	TWS
3	2/18/93	LIC. APP. ACCEPTED FOR FILING	—	DRM	—
2	8/6/91	LICENSE APPLICATION	SCC	JV	JLS
1	8/26/90	DRAFT APPLICATION	KIM	TWS	JLS

ORIGINAL ISSUE DATE
FILE NAME F12330.DGN F12330.CIT
FERC NUMBER 2330

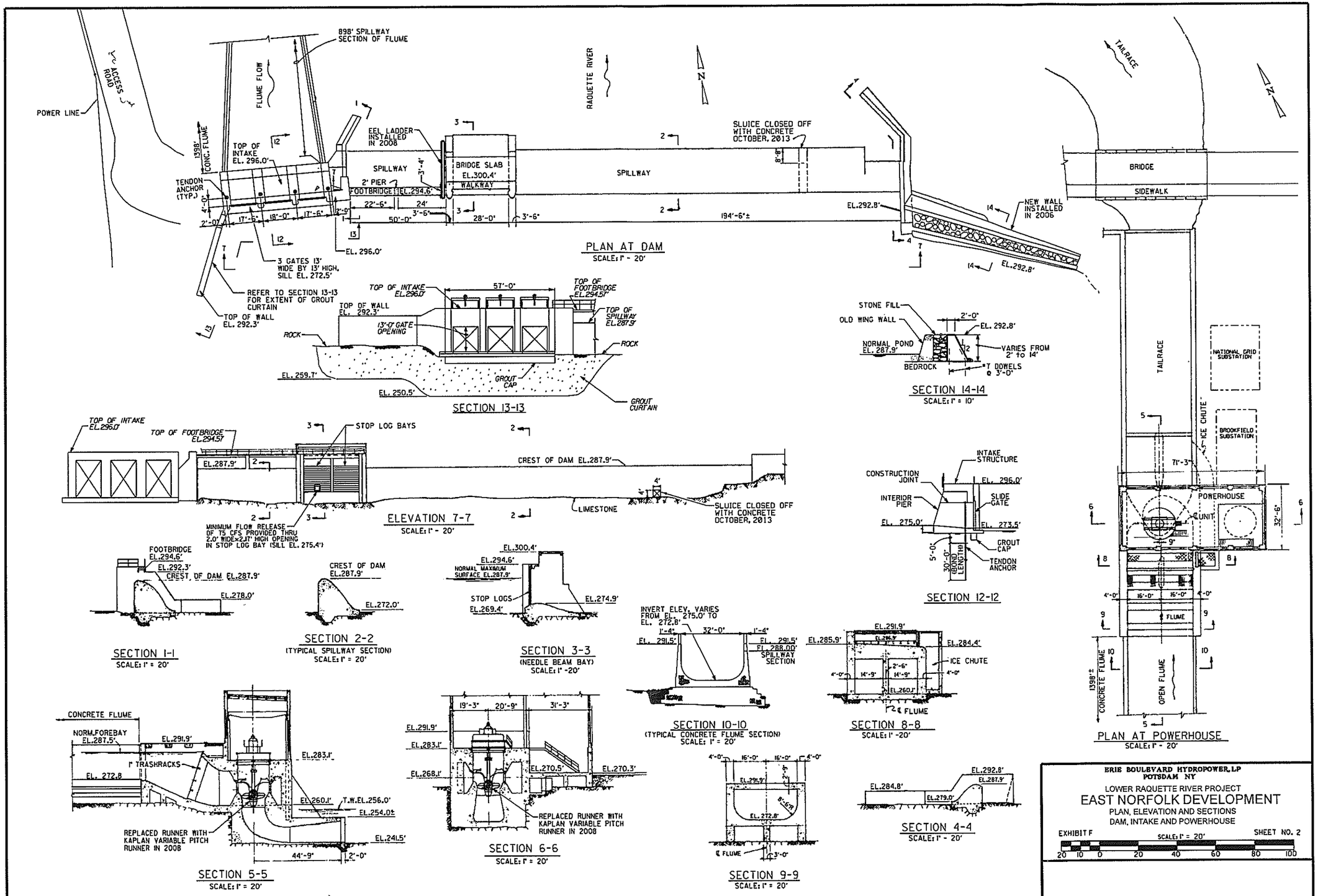
ERIE BOULEVARD HYDROPOWER, LP
POTSDAM, N.Y.
LOWER RAQUETTE RIVER PROJECT
NORWOOD DEVELOPMENT
PLAN, ELEVATION AND SECTIONS
DAM, INTAKE AND POWERHOUSE

EXHIBIT F — SCALE: 1" = 20' — SHEET NO. 1

20 10 0 20 40 60 80 100

CEII

FERC NO. 2330-1010



ERIE BOULEVARD HYDROPOWER, LP
POTSDAM NY

LOWER RAQUETTE RIVER PROJECT

EAST NORFOLK DEVELOPMENT

PLAN, ELEVATION AND SECTIONS
DAM, INTAKE AND POWERHOUSE

EXHIBIT F — SCALE: 1" = 20' — SHEET NO. 2

20 10 0 20 40 60 80 100

CEII

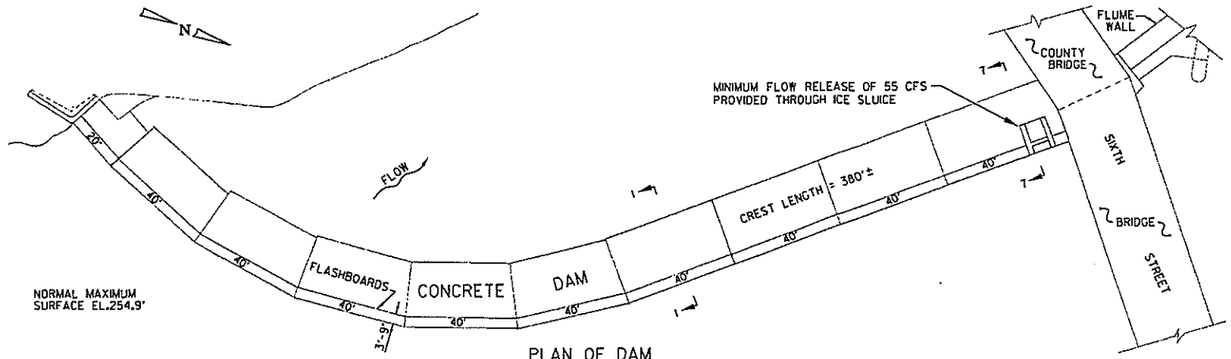
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
8	1/16/14	LOW LEVEL SLUICE CLOSED OFF WITH CONCRETE	PA	DGD	DGD
7	2/15/8	ORDER APPROVING REVISED EXHIBIT F DRAWING	PA	DGD	DGD
6	8/30/10	LICENSE AMENDMENT: REVISED TURBINE, ADDED EEL LADDER, MIN. FLOW AND EAST WING WALL	GML	DGD	DGD
5	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TMS	TMS
4	3/29/94	NEW CONCRETE FLUME AND INTAKE STRUCTURE PER AS-BUILTS	AMC	DWM	JV
3	2/8/93	LICENSE APPLICATION ACCEPTED FOR FILING	-	DWM	-
2	8/6/91	LICENSE APPLICATION	KW	JV	JLS
1	8/26/90	DRAFT APPLICATION	KW	TMS	JLS

ORIGINAL ISSUE DATE

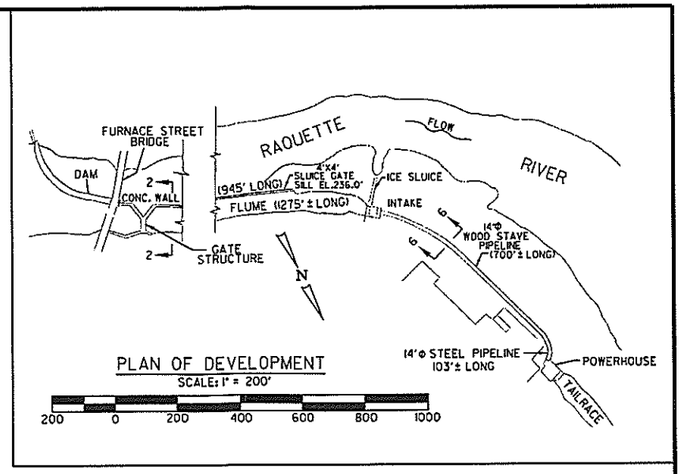
FILE NAME F22330.DGN F22330.CIT

FERC NUMBER 2330

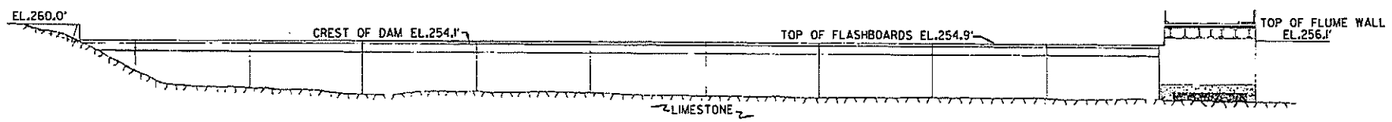
FERC NO. 2330-1011



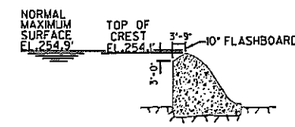
PLAN OF DAM
SCALE: 1" = 20'



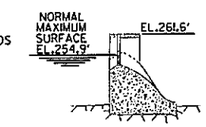
PLAN OF DEVELOPMENT
SCALE: 1" = 200'



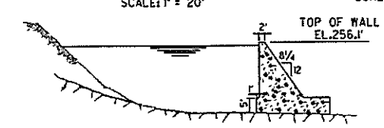
UPSTREAM ELEVATION OF DAM
SCALE: 1" = 20'



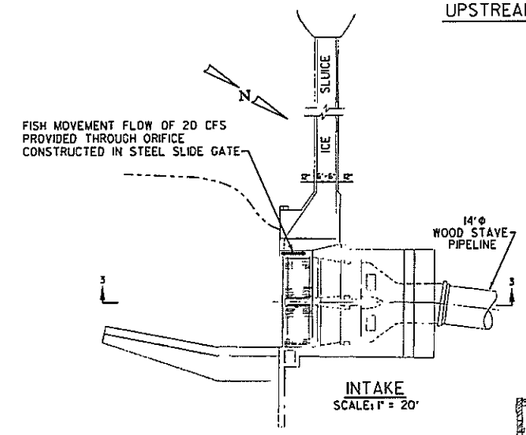
SECTION 1-1
(TYPICAL DAM SECTION)
SCALE: 1" = 20'



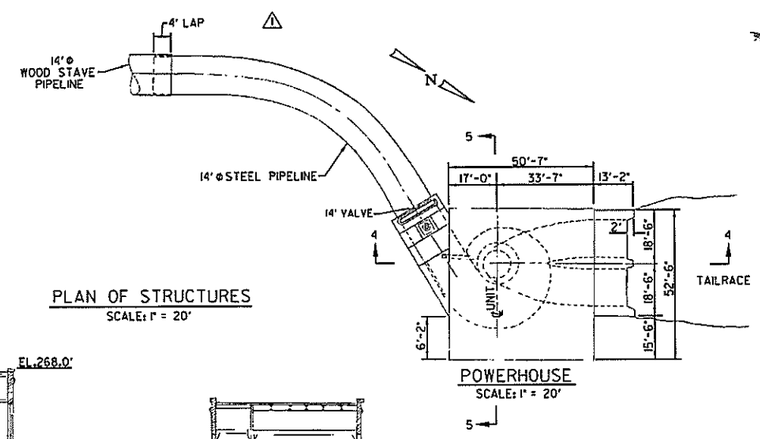
SECTION 7-7
SCALE: 1" = 20'



SECTION 2-2
(TYPICAL SECTION THRU FLUME)
SCALE: 1" = 20'

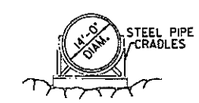


INTAKE
SCALE: 1" = 20'

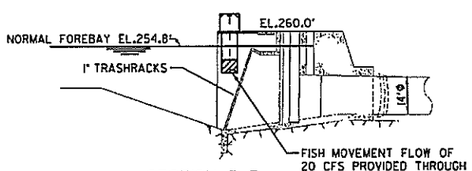


PLAN OF STRUCTURES
SCALE: 1" = 20'

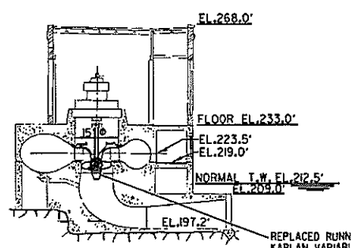
POWERHOUSE
SCALE: 1" = 20'



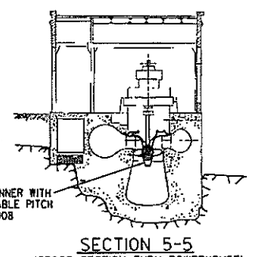
SECTION 6-6
(TYPICAL WOOD STAVE PIPE SECTION)
SCALE: 1" = 20'



SECTION 3-3
(SECTION THRU INTAKE)
SCALE: 1" = 20'



SECTION 4-4
(LONGITUDINAL SECTION THRU POWERHOUSE)
SCALE: 1" = 20'



SECTION 5-5
(CROSS SECTION THRU POWERHOUSE)
SCALE: 1" = 20'

ERIE BOULEVARD HYDROPOWER, LP
POTSDAM, NY

LOWER RAQUETTE RIVER PROJECT

NORFOLK DEVELOPMENT

DAM, INTAKE AND POWERHOUSE

EXHIBIT F — SCALE: 1" = 20' — SHEET NO. 3

20 10 0 20 40 60 80 100

CEII

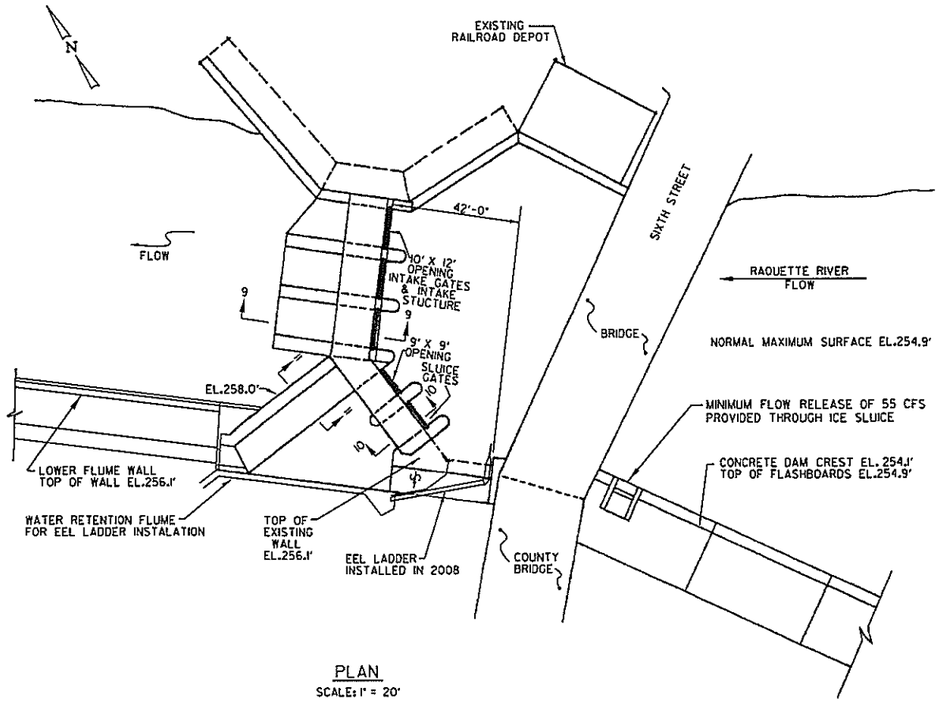
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
6	2/15/11	ORDER APPROVING REVISED EXHIBIT F DRAWING	PA	DGD	DGD
5	8/30/10	LICENSE AMENDMENT; REVISED TURBINE MIN. FLOW NOTE AND FISH PASSAGE NOTE	GML	DGD	DGD
4	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TMS	TMS
3	2/8/93	LIC. APP. ACCEPTED FOR FILING	—	DWM	—
2	8/6/91	LICENSE APPLICATION	PRW	JV	JLS
1	8/26/90	DRAFT APPLICATION	KIW	TMS	JLS

ORIGINAL ISSUE DATE

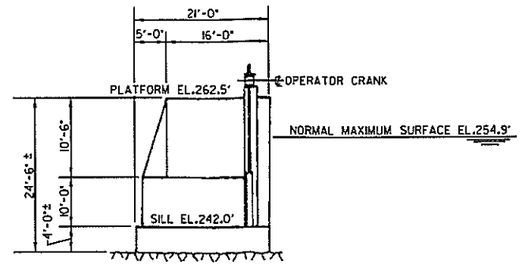
FILE NAME F32330.DGN F32330.CIT

FERC NUMBER 2330

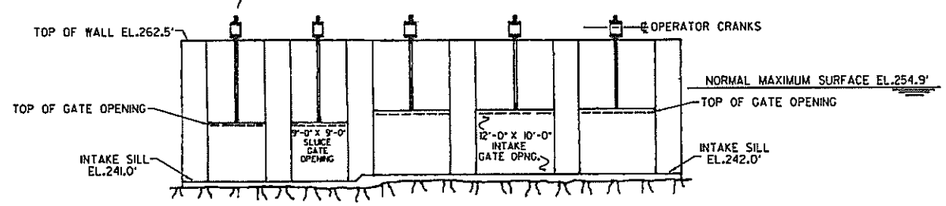
FERC NO. 2330-1012



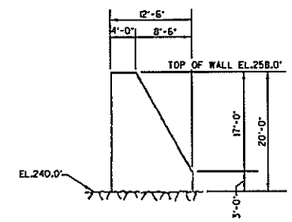
PLAN
SCALE: 1" = 20'



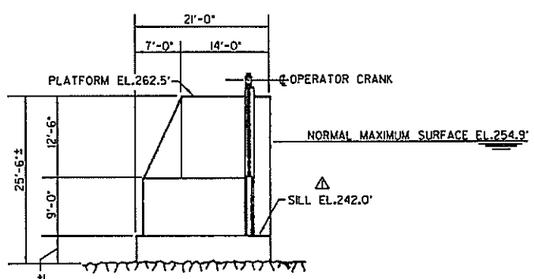
SECTION 9-9
(TYPICAL INTAKE SECTION)
SCALE: 1" = 10'



UPSTREAM ELEVATION OF INTAKE
(GATES IN CLOSED POSITION)
SCALE: 1" = 10'



SECTION 11-11
(TYPICAL DIVERSION WALL SECTION)
SCALE: 1" = 10'



SECTION 10-10
(TYPICAL SLUICE GATE SECTION)
SCALE: 1" = 10'

ERIE BOULEVARD HYDROPOWER, LP
POTSDAM, NY

LOWER RAQUETTE RIVER PROJECT

NORFOLK DEVELOPMENT

PLAN, ELEVATION, AND SECTIONS
INTAKE GATES, SLUICE GATES AND DIVERSION WALL

EXHIBIT F — SCALE: 1" = 20' — SHEET NO. 4

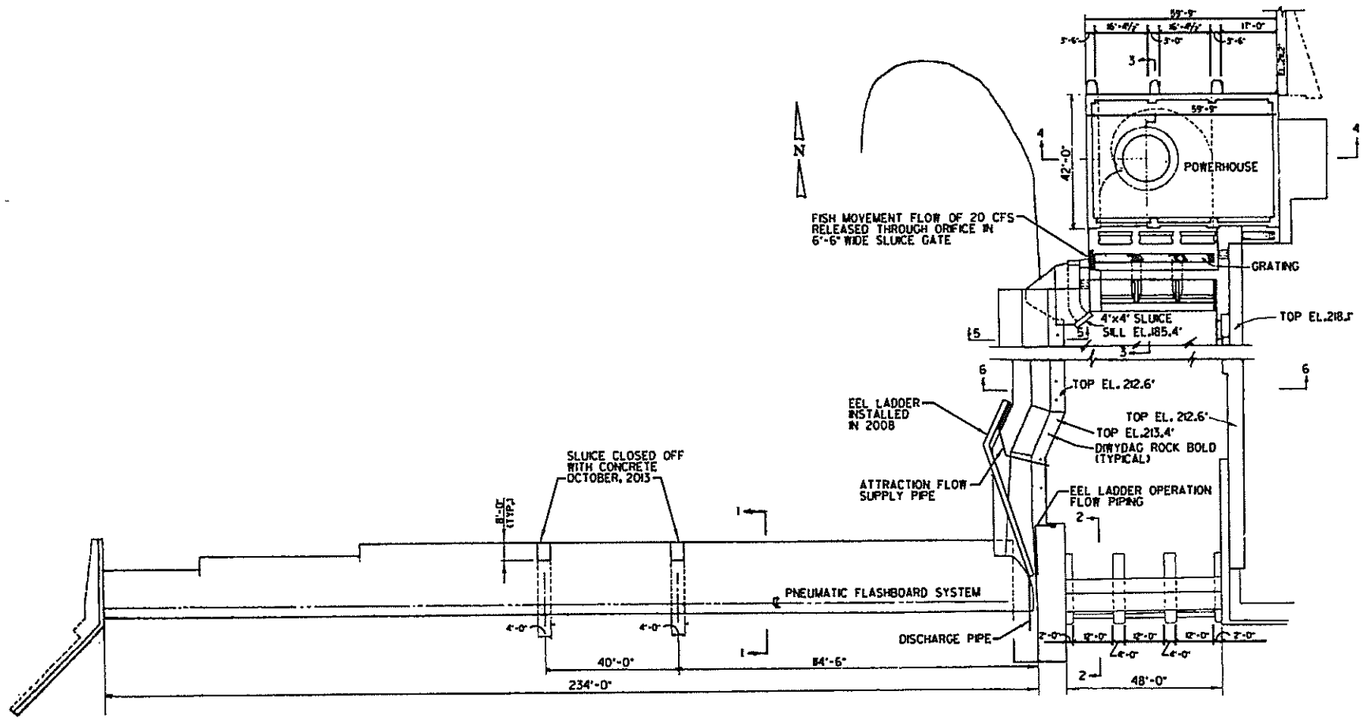
20 10 0 20 40 60 80 100

CEII

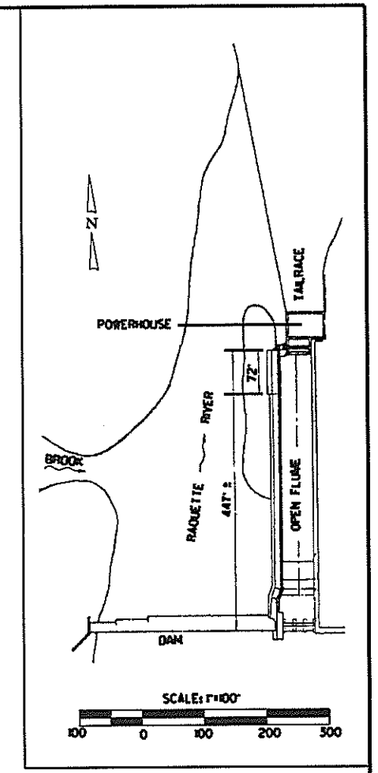
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
7	2/15/18	ORDER APPROVING REVISED EXHIBIT F DRAWING	PA	DGD	DGD
6	8/30/10	LICENSE AMENDMENT: ADDED EEL LADDER AND REVISED MIN. FLOW NOTE	CML	DGD	DGD
5	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TMS	TMS
4	6/1/93	ADDED FLUME WALL AS-BUILTS (4A)	GH	DRM	JV
3	2/18/93	LICENSE APP. ACCEPTED FOR FILING	—	DRM	—
2	3/6/91	LICENSE APPLICATION	PRW	JV	JSS
1	8/26/90	DRAFT APPLICATION	KIR	TMS	JLS

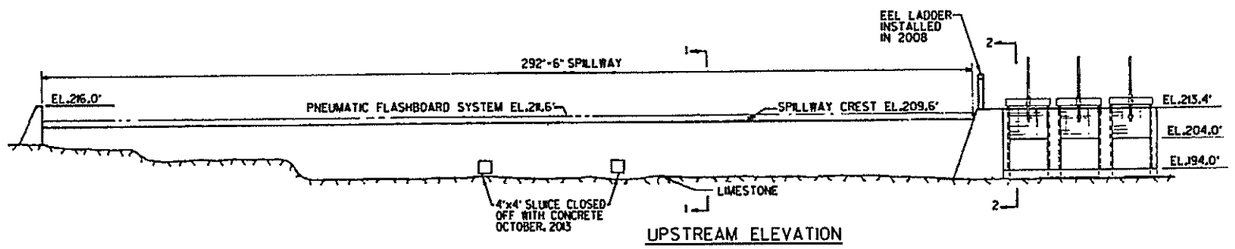
ORIGINAL ISSUE DATE
FILE NAME F42330.DGN F42330.CIT
FERC NUMBER 2330

FERC NO. 2330-1013

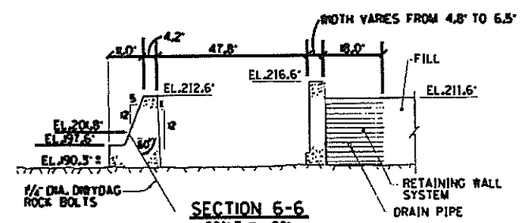


PLAN
SCALE: 1" = 20'

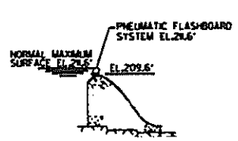




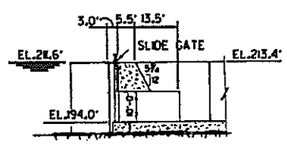
UPSTREAM ELEVATION
SCALE: 1" = 20'



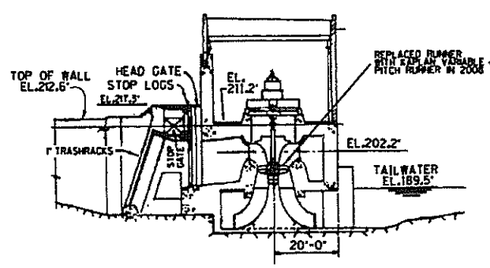
SECTION 6-6
SCALE: 1" = 20'



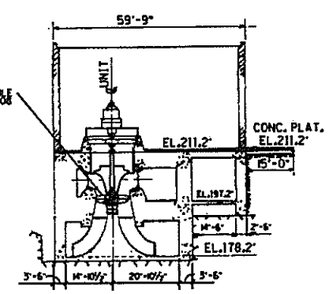
SECTION 1-1
(THRU SPILLWAY)
SCALE: 1" = 20'



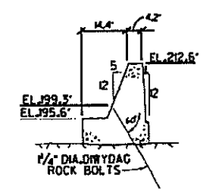
SECTION 2-2
SCALE: 1" = 20'



SECTION 3-3
(THRU POWERHOUSE)
SCALE: 1" = 20'



SECTION 4-4
(THRU POWERHOUSE)
SCALE: 1" = 20'



SECTION 5-5
SCALE: 1" = 20'

ERIE BOULEVARD HYDROPOWER, LP
POTSDAM, NY

LOWER RAQUETTE RIVER PROJECT

RAYMONDVILLE DEVELOPMENT

PLAN, ELEVATION AND SECTIONS
DAM, INTAKE AND POWERHOUSE

EXHIBIT F — SCALE: 1" = 20' — SHEET NO. 5

20 10 0 20 40 60 80 100

CEII

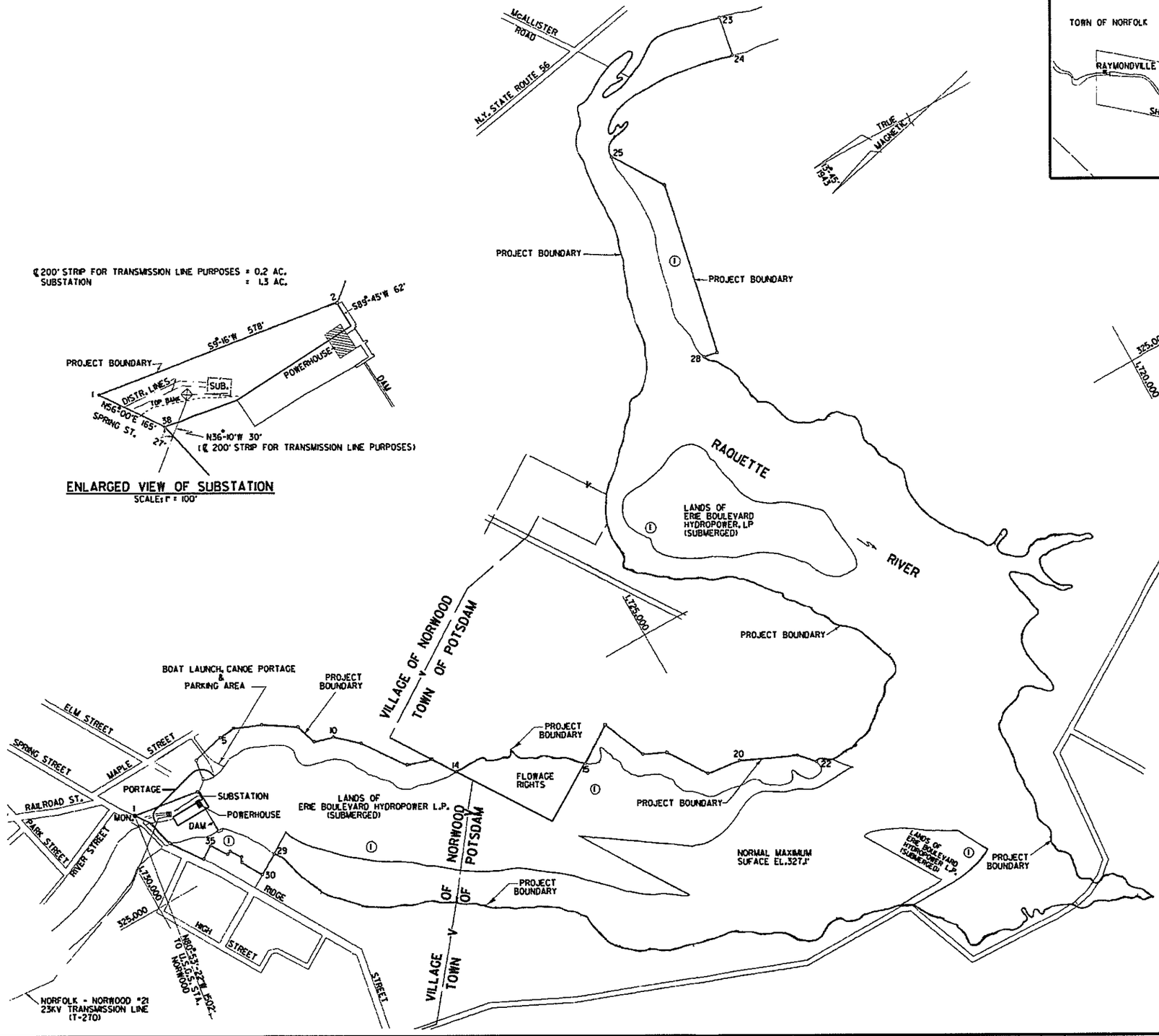
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
7	1/16/14	LOB LEVEL SLUICE CLOSED OFF WITH CONCRETE	PA	DGD	DGD
6	2/15/12	ORDER APPROVING REVISED EXHIBIT F DRAWING	PA	DGD	DGD
5	8/29/10	LICENSE AMENDMENT: REVISED TURBINE & FISH MOVEMENT AND ADDED EEL LADDER	DAL	DGD	DGD
4	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TWS	TWS
3	2/21/93	L.C. APP. ACCEPTED FOR FILING	—	DRW	—
2	11/6/91	LICENSE APPLICATION	KJB	JV	J.S
1	11/26/90	DRAFT APPLICATION	KJB	TWS	J.S

ORIGINAL ISSUE DATE

FILE NAME: F52330.DGN, F52330.CIT

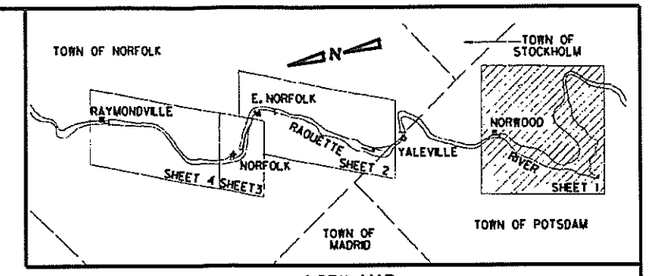
FERC NUMBER: 2330

FERC NO. 2330-1044



ENLARGED VIEW OF SUBSTATION

SCALE: 1" = 100'



INDEX MAP

ST. LAWRENCE COUNTY / STATE OF NEW YORK

NOTE:

ERIE BOULEVARD HYDROPOWER L.P. OWNS PARCEL NO.1 IN FEE
ACRES WITHIN PROJECT BOUNDARY = 163.82
(AREA FOR THIS SHEET ONLY)

LEGEND

- o ANGLE POINT IN PROJECT BOUNDARY
- — TOWN LINE
- — PROJECT BOUNDARY LINE
- -·- CENTERLINE OF TRANSMISSION LINE R/W
- ● MONUMENT

ELEVATION OF POND IS BASED ON U.S.G.S. DATUM
BEARINGS REFER TO GRID NORTH
GRID LINES ARE REFERENCED TO TRANSVERSE MERCATOR GRID PROJECTION, EAST ZONE NEW YORK STATE

ERIE BOULEVARD HYDROPOWER, LP
LIVERPOOL, N.Y.

LOWER RAQUETTE RIVER PROJECT

NORWOOD DEVELOPMENT

PROJECT BOUNDARY AND LOCATION MAP

EXHIBIT G — SCALE: 1" = 400' — SHEET NO. 1

400 200 0 400 800 1200 1600 2000

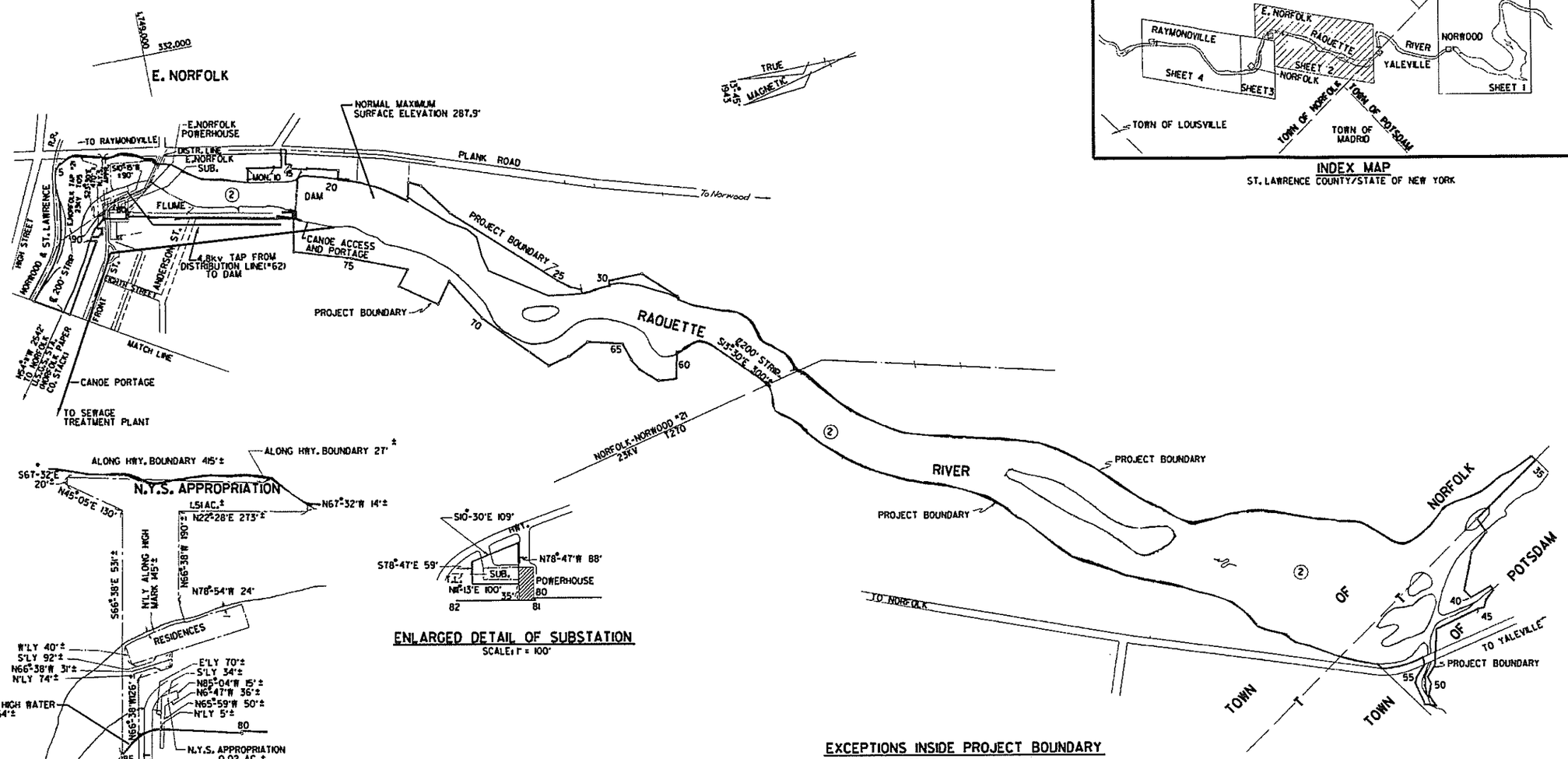
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
4	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TMS	TMS
3	2/11/93	LIC. APP. ACCEPTED FOR FILING	—	DRM	—
2	3/6/91	LICENSE APPLICATION	PRW	JY	JLS
1	9/26/90	DRAFT APPLICATION	KIR	TMS	JLS

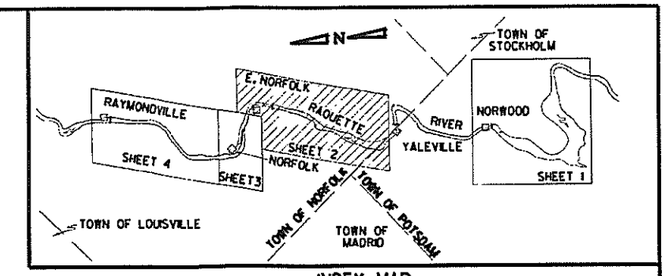
ORIGINAL ISSUE DATE

FILE NAME: G2330.DGN, G2330.CIT

FERC NUMBER: 2330-1001

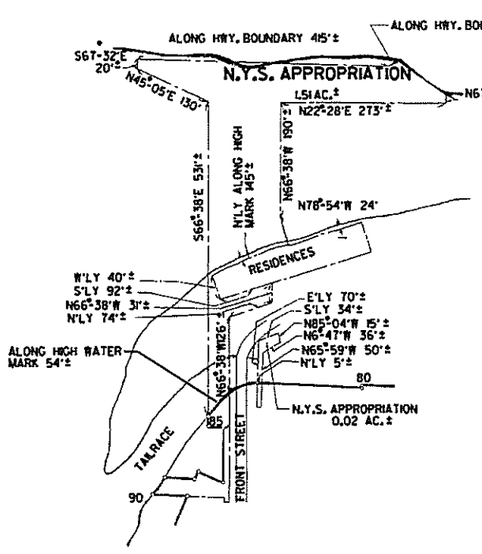
FERC NO. 2330-1001





INDEX MAP

ST. LAWRENCE COUNTY/STATE OF NEW YORK



ENLARGED DETAIL OF N.Y.S. APPROPRIATIONS

BEARINGS REFER TO N.Y.S. DATUM

SCALE: 1" = 100'

ENLARGED DETAIL OF SUBSTATION

SCALE: 1" = 100'

EXCEPTIONS INSIDE PROJECT BOUNDARY

N.Y.S. APPROPRIATION	1.53 AC.
RESIDENCES	0.3 AC.
LINE PURPOSES	3.9 AC.
SUBSTATION	0.16 AC.

NOTE:

ERIE BOULEVARD HYDROPOWER L.P. OWNS PARCEL NO.2 IN FEE
ACRES WITHIN PROJECT BOUNDARY 191.4
AREA IS FOR THIS SHEET ONLY

LEGEND

- ANGLE POINT IN PROJECT BOUNDARY
- TOWN LINE
- PROJECT BOUNDARY LINE
- CENTER LINE OF TRANSMISSION LINE R/W
- MONUMENT

ELEVATION OF POND IS BASED ON U.S.G.S. DATUM
BEARINGS REFER TO GRID NORTH
GRID LINES ARE REFERENCED TO TRANSVERSE MERCATOR GRID PROJECTION, EAST ZONE N.Y.

ERIE BOULEVARD HYDROPOWER, LP
LIVERPOOL, N.Y.

LOWER RAQUETTE RIVER PROJECT

EAST NORFOLK DEVELOPMENT

PROJECT BOUNDARY AND LOCATION MAP

EXHIBIT G — SCALE: 1" = 400' — SHEET NO. 2

400 200 0 400 800 1200 1600 2000

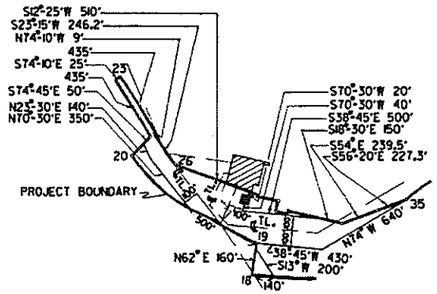
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
5	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TMS	TMS
4	3/29/94	NEW CONCRETE FLUME AND INTAKE STRUCTURE PER AS-BUILTS	AMC	DMM/PJM	
3	2/16/93	LICENSE APPLICATION ACCEPTED FOR FILING	-	DMM	-
2	3/6/91	LICENSE APPLICATION	PRR	JV	JLS
1	11/26/90	DRAFT APPLICATION	KW	TMS	JLS

ORIGINAL ISSUE DATE

FILE NAME: G22330.DGN, G22330.CIT

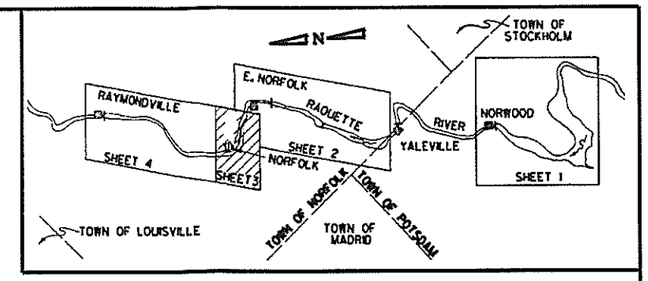
FERC NUMBER: 2330-1002

FERC NO. 2330-1002



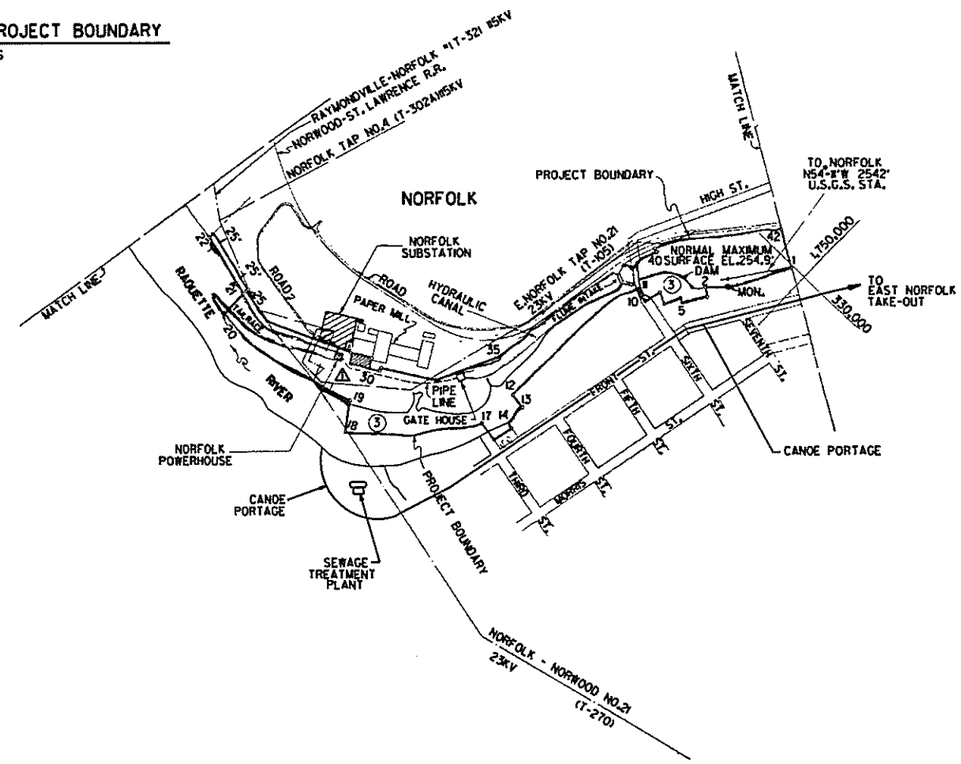
DETAIL OF NON-PROJECT TRANSMISSION LINES WITHIN PROJECT BOUNDARY

TOTAL ACREAGE FOR TRANSMISSION LINE PURPOSES = 66 ACRES



INDEX MAP

ST. LAWRENCE COUNTY/STATE OF NEW YORK



NOTE:

ERIE BOULEVARD HYDROPOWER, L.P. OWNS PARCEL NO.3 IN FEE.
ACRES WITHIN PROJECT BOUNDARY 27.8
(AREA IS FOR THIS SHEET ONLY)

LEGEND

- o ANGLE POINT IN PROJECT BOUNDARY.
- — — TOWN LINE.
- ═══ PROJECT BOUNDARY LINE.
- - - - CENTERLINE OF TRANSMISSION LINE R/W.
- ● MONUMENT.

ELEVATION OF POND IS BASED ON U.S.G.S. DATUM.
BEARINGS REFER TO GRID NORTH.
GRID LINES ARE REFERENCED TO TRANSVERSE MERCATOR.
GRID PROJECTION, EAST ZONE N.Y. STATE.

ERIE BOULEVARD HYDROPOWER, LP
LIVERPOOL, N.Y.

LOWER RAQUETTE RIVER PROJECT

NORFOLK DEVELOPMENT

PROJECT BOUNDARY AND LOCATION MAP

EXHIBIT G — SCALE: 1" = 400' — SHEET NO. 3

400 200 0 400 800 1200 1600 2000

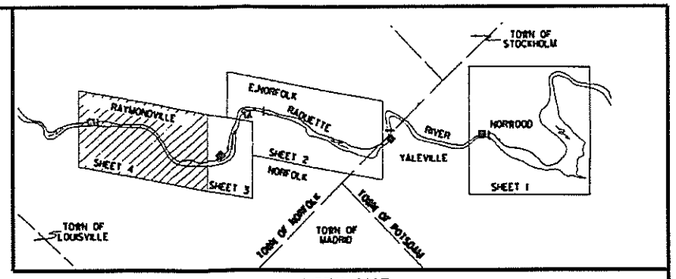
NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
4	2/13/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TMS	TMS
3	1/14/93	LIC. APP. ACCEPTED FOR FILING	—	DWM	—
2	8/6/91	LICENSE APPLICATION	PHB	JV	JLS
1	8/26/90	DRAFT APPLICATION	KJB	TMS	JLS

ORIGINAL ISSUE DATE

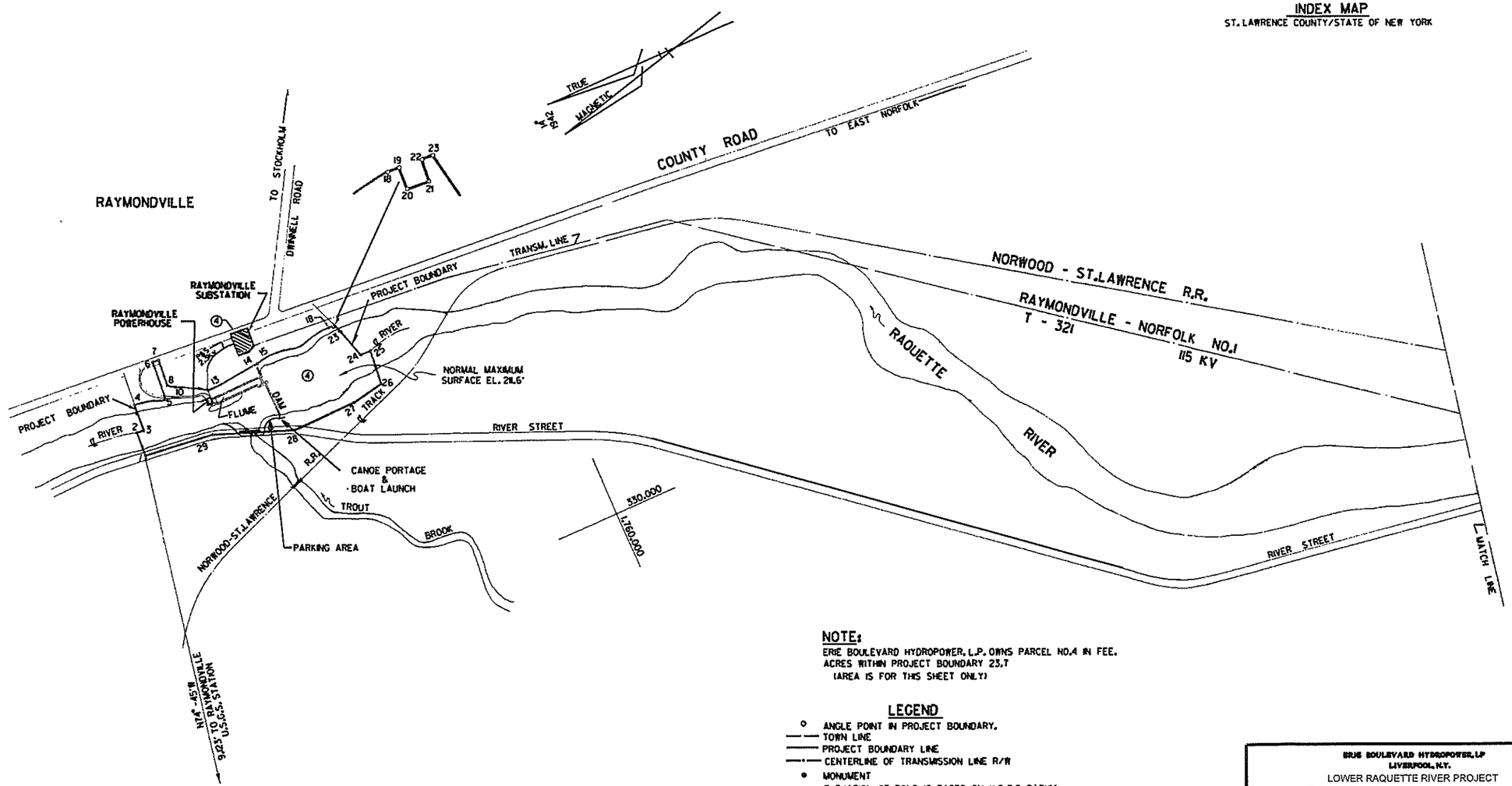
FILE NAME: G32330.DGN G32330.CIT

FERC NUMBER: 2330-1003

FERC NO. 2330-1003



INDEX MAP
ST. LAWRENCE COUNTY/STATE OF NEW YORK



NOTE:
ERIE BOULEVARD HYDROPOWER, L.P. OWNS PARCEL NO.4 IN FEE.
ACRES WITHIN PROJECT BOUNDARY 23.7
(AREA IS FOR THIS SHEET ONLY)

LEGEND
- ANGLE POINT IN PROJECT BOUNDARY.
- TOWN LINE
- PROJECT BOUNDARY LINE
- CENTERLINE OF TRANSMISSION LINE R/W
- MONUMENT

ELEVATION OF POND IS BASED ON U.S.G.S. DATUM
BEARINGS REFER TO GRID NORTH
GRID LINES ARE REFERENCED TO TRANSVERSE MERCATOR
GRID PROJECTION, EAST ZONE N.Y. STATE

ERIE BOULEVARD HYDROPOWER, LP
LIVERPOOL, N.Y.
LOWER RAQUETTE RIVER PROJECT
RAYMONDVILLE DEVELOPMENT
PROJECT BOUNDARY AND LOCATION MAP
EXHIBIT G — SCALE: 1" = 400' — SHEET NO.4
400 200 0 400 800 1200 1600 2000

NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.	NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.	NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.	NO.	DATE	DESCRIPTION OF ISSUE OR REVISION	DR.	CK.	APP.
5	2/15/02	ORDER APPROVING SETTLEMENT OFFER AND ISSUING NEW LICENSE	PA	TWS	TWS																		
4	4/5/99	UPDATED MAP	MRB	JFK	SSH																		
3	2/16/93	LIC. APP. ACCEPTED FOR FILING	—	DWM	—																		
2		LICENSE APPLICATION	PRW	JV	JLS																		
1	8/26/90	DRAFT APPLICATION	KWB	TWS	JLS																		

ORIGINAL ISSUE DATE
FILE NAME 042330.DGN 042330.CIT
FERC NUMBER 2330-1004

FERC NO. 2330-1004