

STATE OF NEW SERSEN
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY

JUL 21 1979

Mr. Charles A. Herrington
Acting Keeper of the National Register
Heritage Conservation and Recreation
Service
Department of the Interior
18th and C Streets, N.W.
Washington, D.C. 20243

Dear Mr. Herrington:

I am pleased to nominate the Dock Bridge, Newark, Essex County to the National Register.

This nomination has received the majority approval of the State Review Committee for Historic Sites.

Should you want any further information concerning this application, please feel free to contact the staff of the Office of Historic Preservation, Department of Environmental Protection, 109 West State Street, Trenton, New Jersey 08625, telephone (609) 292-2023.

Sincerely,

Betty Wilson

Deputy State Historic Preservation Officer

JMMARY OF NOMINATION INFORMATION IN ONJH FILES TYPE: NAME Dock Bridge Individual COUNTY Easex Historic District MUNICIPALITY NEWONK CITY Multiple Property Documentation Form _ NOMINATION FORM ONJH FILES - Nomination form (If there are continuation sheets, please indicate number) -- First page (#1-6) CS: _____ -- Description (#7) _____ CS: ____ -- Significance (#8) _____ CS: ____ -- Last page (#9-11) _____ CS: ____ - SHPO Signatures - USGS Map - Site plan - Tax map - Floorplan - Photo index map - Other maps - Photographs (Indicate number) --Exterior 2 lphotompus --Interior --Streetscapes --Outbuildings --Historical --Negatives -- Contact Sheet DATE OF LISTING State Register _____7/21/77 National Register <u>10/3/80</u> SUPPLEMENTAL INFORMATION N.J.H.S.I. # _____ Draft Nomination _____ Newspaper/Magazine Articles Correspondence _____ HABS _____ Contextual Data Other (Please specify) UPDATES: STAFF ______ DATE _____ STAFF _____ DATE ____

EW JERSEY AND NATIONAL REGISTER FILE RE	ORGANIZATION - 1980-	1981
NAME Deck Bridge		Ω
MUNICIPALITY MEUNICK	COUNTY _	sex Co
Nomination Form: Final Nomination Form	Signed	Unsigned
	notocopy	
Other Maps		
Plan(s): Site	Floor	
Photographs: <u>Identified</u>	Unidentified	Inadequate Coverage
Exterior		
Interior		
Streetscapes		
Outbuildings	and the second s	
Historical	a	
Negatives: Same as prints Less than Slides: <u>Adoquate</u> Shots	prints Additi	ional Negatives
Roundaries: 0	Defined in nomin	ation
No precise boundaries	Latitude & longi	tude
Defined by map	Boundary justifi	cation
U.T.M.'s		
National Register notification of list	ing to SHPO:	-
Copies of final approved nomination:		
Other: Adorda		
SHPO Notification Letters: Intent to nominate Nation Owner list	al Register S	State Register
Supplemental Information:	a tantin	n
17 T TT C T	Draft nominatio Recent correspo	ndence
Newspaper/Magazine articles	Maps	HABS
Local ordinance data		
Other Syngasis		
Materials in Storage:	Draft nomination	on
Public Meeting notification Newspaper articles	Correspondence	
Newspaper afticies Historical information	Other	

State Register Encroachments
Tax Act Certification
Section 106 Consultations and Comments
Grants-in-Aid
Notes:

Reorganized by: Date: 8/19/8/

•

-C

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

FOR	NPS	USE	ONLY	

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

RECEIVED

			DATE ENTERED	
	SEE INSTRUCTIONS IN TYPE ALL ENT	HOW TO COMPLETE N RIES COMPLETE APP	ATIONAL REGISTER FOR	MS
1 NAME			EVOLUET OF CHOIA?	
HISTORIC		, , , , ,		
	Dock Bridge			
AND/OR COM		ge over the Passaic	River	
2 LOCAT	ION			
STREET & NUM	ивея Рабsaic Ri	ver		
CITY, TOWN			NOT FOR PUBLICATIO	N
`	Newark	VICINITY OF	congressional dis 10th	TRICT
STATE		CODE	COUNTY	2005
	New Jersey	34	Essex	CODE 013
E CLASSI	FICATION		JOUCA ,	013
CATEGO	NRV		<u>.</u>	
	o tritte ii o ii ii	STATUS	PRE	SENT USE
DISTRICT	PUBLIC	X_OCCUPIED	AGRICULTURE	MUSEUM
BUILDING(S X_STRUCTURE		UNOCCUPIED	COMMERCIAL	PARK
		WORK IN PROGRE	SSEDUCATIONAL	PRIVATE RESIDE
SITE	PUBLIC ACQUIS	SITION ACCESSIBLE	ENTERTAINMEN	
OBJECT	IN PROCESS	X YES: RESTRICTED		
	BEING CONSIDERED		GOVERNMENT	SCIENTIFIC
PROMINED	BEING CONSIDERED	—YES: UNRESTRIÇTE		
	OF PROPERTY	—YES: UNRESTRIÇTE —NO	INDUSTRIAL	XTRANSPORTATIO
	OF PROPERTY	—YES: UNRESTRIÇTE —NO	—INDUSTRIAL —MILITARY	XTRANSPORTATIO
STREET & NUME	OF PROPERTY rtheast Corridor Ope	—YES UNRESTRICTE —NO erations, National Ra	—INDUSTRIAL —MILITARY	XTRANSPORTATIO
STREET & NUME 16: CITY, TOWN	COF PROPERTY rtheast Corridor Ope	—YES: UNRESTRIÇTE —NO	—INDUSTRIAL —MILITARY	XTRANSPORTATIO
STREET & NUME 16 CITY, TOWN Ph	COF PROPERTY rtheast Corridor Ope BER 17 John F. Kennedy iladelphia	YES: UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF	INDUSTRIAL —MIUTARY ailroad Passenger Corp	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16 CITY, TOWN Ph	COF PROPERTY rtheast Corridor Ope BER 17 John F. Kennedy iladelphia	YES: UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF	□ □INDUSTRIAL —MIUTARY ailroad Passenger Corp	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16: CITY, TOWN Ph: 5. LOCATI	COF PROPERTY Ttheast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE	YES: UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF	INDUSTRIAL —MIUTARY ailroad Passenger Corp	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16 CITY, TOWN Ph	COF PROPERTY rtheast Corridor Ope BER 17 John F. Kennedy iladelphia ON OF LEGAL DE	YES UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	INDUSTRIAL —MIUTARY ailroad Passenger Corp STATE Pa. 1910	≚TRANSPORTATIO —OTHER: oration/Amtra
STREET & NUME 16. CITY, TOWN Ph: COURTHOUSE,	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE	YES UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	INDUSTRIAL —MIUTARY ailroad Passenger Corp	≚TRANSPORTATIO —OTHER: oration/Amtra
STREET & NUME 16. CITY, TOWN Ph: LOCATI COURTHOUSE, REGISTRY OF DE	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE	YES UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	INDUSTRIAL —MIUTARY ailroad Passenger Corp STATE Pa. 1910	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16. CITY, TOWN Ph: LOCATI COURTHOUSE, REGISTRY OF DE	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE	YES UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	ailroad Passenger Corp	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16. CITY, TOWN Ph: LOCATI COURTHOUSE, REGISTRY OF DE STREET & NUMB	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE	YES UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	INDUSTRIAL —MIUTARY ailroad Passenger Corp STATE Pa. 1910	≚TRANSPORTATIO —OTHER: oration/Amtra
STREET & NUME 16: CITY, TOWN Ph: COURTHOUSE, REGISTRY OF DE STREET & NUMB CITY, TOWN	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Ladelphia ON OF LEGAL PR BEDS, ETC.	YES: UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	ailroad Passenger Corp	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16: CITY. TOWN Ph: LOCATI COURTHOUSE, REGISTRY OF DE STREET & NUMB CITY. TOWN REPRES	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy iladelphia ON OF LEGAL DE EEDS.ETC. EER	YES UNRESTRICTENO erations, National Re Building, Room 603VICINITY OF ESCRIPTION	ailroad Passenger Corp STATE Pa. 1910 STATE	≚TRANSPORTATIO —OTHER: oration/Amtra
STREET & NUME 16. CITY. TOWN Ph: COURTHOUSE. REGISTRY OF DE STREET & NUMB CITY. TOWN REPRES TITLE North	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy iladelphia ON OF LEGAL DE EEDS.ETC. EER	YES: UNRESTRICTENO erations, National Ra Building, Room 603 VICINITY OF ESCRIPTION	ailroad Passenger Corp STATE Pa. 1910 STATE	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16. CITY. TOWN Ph: COURTHOUSE. REGISTRY OF DE STREET & NUMB CITY. TOWN REPRES TITLE North DATE	COF PROPERTY Theast Corridor Operate The State of the Sta	YES UNRESTRICTENO erations, National Ra Building, Room 603VICINITY OF ESCRIPTION KISTING SURVEY I Reconnaissance of	STATE Pa. 1910 STATE Pa. 1910 STATE Pa. 1910	XTRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16. CITY. TOWN Ph: COURTHOUSE, REGISTRY OF DE STREET & NUMB CITY. TOWN REPRES TITLE North DATE 13-15	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE EEDS, ETC. EER ENTATION IN EX Least Corridor Aeria: April 1977	YES UNRESTRICTENO erations, National Ra Building, Room 603VICINITY OF ESCRIPTION KISTING SURVEY I Reconnaissance of	ailroad Passenger Corp STATE Pa. 1910 STATE	≚TRANSPORTATIO _OTHER: oration/Amtra
STREET & NUME 16: CITY. TOWN Ph: LOCATI COURTHOUSE. REGISTRY OF DE STREET & NUMB CITY. TOWN REPRESI TITLE North DATE 13-15 DEPOSITORY FOR	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE EEDS.ETC. ER ENTATION IN EX Least Corridor Aeria. April 1977	YES UNRESTRICTENO erations, National Ra Building, Room 603VICINITY OF ESCRIPTION CISTING SURVEY I Reconnaissance of **FEDERA**	STATE Pa. 1910 STATE Pa. 1910 STATE L _STATE _COUNTY _LOCAL	XTRANSPORTATIO —OTHER: FORATION/Amtra
STREET & NUME 16: CITY. TOWN Ph: LOCATI COURTHOUSE. REGISTRY OF DE STREET & NUMB CITY. TOWN REPRESI TITLE North DATE 13-15 DEPOSITORY FOR	COF PROPERTY Theast Corridor Ope BER 17 John F. Kennedy Lladelphia ON OF LEGAL DE EEDS.ETC. ER ENTATION IN EX Least Corridor Aeria. April 1977	YES UNRESTRICTENO erations, National Ra Building, Room 603VICINITY OF ESCRIPTION CISTING SURVEY I Reconnaissance of **FEDERA**	STATE Pa. 1910 STATE Pa. 1910 STATE Pa. 1910	XTRANSPORTATIO —OTHER: FOR attion/Amtra

ESCRIPTION

CONDITION

CHECK ONE

CHECK ONE

_EXCELLENT XGOOD

__FAIR

_DETERIORATED
_RUINS

XUNALTERED
__ALTERED

XORIGINAL SITE

__MOVED DATE_____

__UNEXPOSED DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Dock Bridge over the Passaic River in Newark, New Jersey, a through-truss lift bridge, was constructed in 1935 by Waddell & Hardesty, Consulting Engineers, after the patent of Dr. J.A.L. Waddell. It was constructed for the Pennsylvania Railroad with T.W. Pinard, Chief Engineer of the railroad.

The structure consists of two deck girder approach spans 94 feet and 64 feet long, respectively; a through Warren truss, with verticals, lift span 230 feet long and two deck girder approach spans 64 and 68 feet long, respectively. Bridge A8.50 carries three tracks and C8.50 carries one track. PATH trains are carried on a separate span. The bridges are side by side and operate independently. This bridge has two sets of lift towers supporting three lift towers. The south towers support two bridge structures. Each span has the moving machinery located at the center of the span on the top chord of the trusses.

The substructure is 24 feet above mean high water and the abutments and piers are concrete with stone facings. There are timber fenders on both sides of the channel at the rest piers.

The main drive motors are 260-horsepower DC series wound electric motors. There are electro-hydraulic trustor brakes on each motor. The motors are geared through common spur reduction gears on shafts which transmit power to the cable through common spur reduction gears on shafts which transmit power to the cable drums. Cables run over the cable drums to the end of the span where they pass over an idler sheave to the bridge sheave. The bridges are raised and lowered by uphaul and downhaul cables. The counterweight cables are attached to the top uphaul and downhaul cables. The counterweight cables are attached to the top uphaul and downhaul cables. The counterweight cables are attached to the top uphaul and downhaul cables. The counterweight cables are attached to the top uphaul and downhaul cables. There is a 150 horsepower gasoline chord of the trusses and run over sheaves. There is a power source. There are compressors in the operator's house basement for bridge power source. There are compressors in the operator sets in the operator's floor and rail locks. There are AC motor DC generator sets in the operator's house at the north shore. The bridge operator occupies the fifth floor of this house at the north shore. The bridge operator occupies the fifth floor of this house. The operator's level contains the signal interlock box, track model house. The operator's level contains the signal interlock box, track model board, reversing drum controllers, and navigation light control. There is a cable tunnel below the river for cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first floor of the cables carrying single-phase and 3-phase the first

The operator's level is the top floor of the five-level house on the north shore. The other floors contain railroad electrical equipment. The house has steam heating which was installed in 1974.

The bridge is in generally good condition with some minor deterioration of some structural elements and need for repair in the mechanical and electrical equipment.

CANCE

AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW

ŀ		· , AH	EAS OF SIGNIFICANCE - CIT	LORANTO	
	10	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
BANKER	1	ARCHEOLOGY-HISTORIC	CONSERVATION	_LAW	SCIENCE
	99	AGRICULTURE	ECONOMICS	_LITERATURE ,	SCULPTURE
ľ	/1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
,	0-1799	ART	X_ENGINEERING	_MUSIC	THEATER
٢	0-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	_XTRANSPORTATION
)-	COMMUNICATIONS	_INDUSTRY	POLITICS/GOVERNMENT	OTHER (SPECIFY)

_INVENTION

JIFIC DATES

1935

BUILDER/ARCHITECT

Waddell and Hardesty

EMENT OF SIGNIFICANCE

Dock Bridge is the only vertical lift bridge on the Northeast Corridor railroad route, and is the newest of the movable bridges on the Corridor. The structure is unique because of the operation of six tracks on three bridges with two lift spans.

Dr. J.A.L. Waddell was one of the first to patent a simplified and improved design of vertical lift bridge in the United States. Vertical lift bridges of small spans and low lifts were constructed in Europe at a fairly early date, but no vertical lifts of any size were constructed until the late 19th century. The consulting engineering firm for the construction of this structure, Waddell & Hardesty, used the patent of Dr. Waddell in the design of the bridge.

Vertical lift bridges were more widespread in the U.S. after 1908. This type is economical in construction and operation and has proven efficient in heavily trafficed areas because the span can be opened in less time than is required for a swing bridge. In addition, the span can be partially raised when height requirements are low. Heavy railroad traffic between New York City and Newark and the frequent openings necessary on the Passaic River make this structure critical to the operation of the Northeast Corridor railroad system.

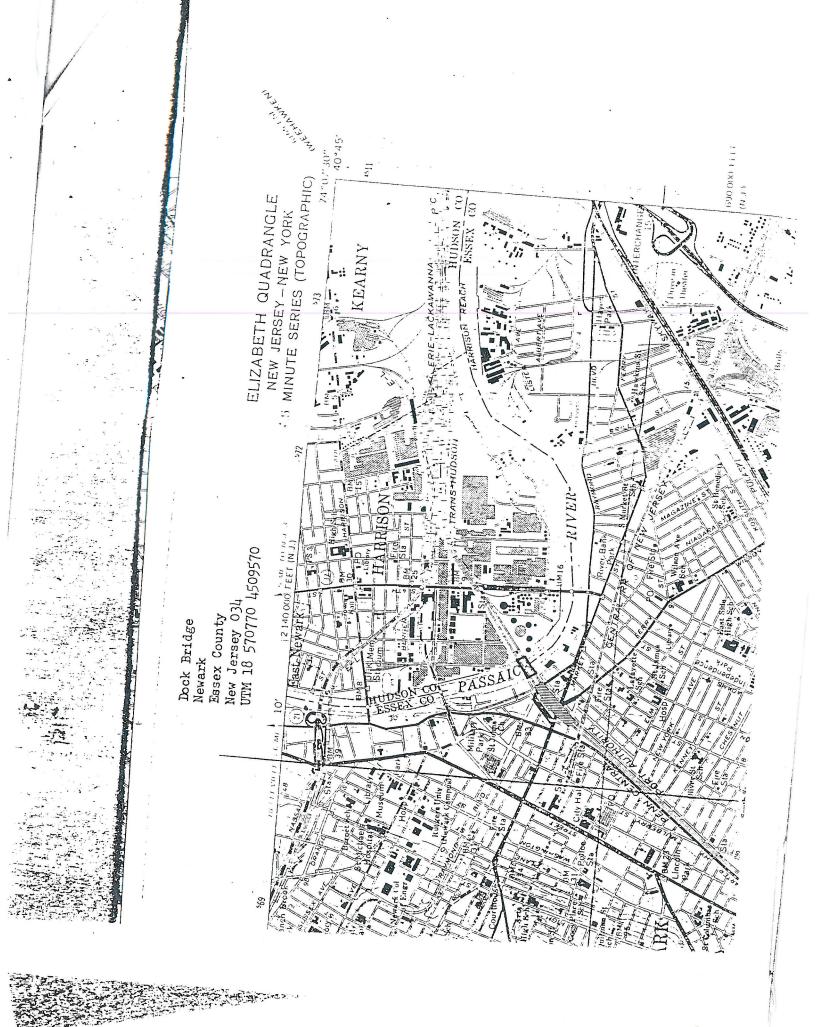
The machinery and electrical systems which were specifically designed for this bridge have not been significantly altered since their installation. Earle Gear and Machine Company of Philadelphia was the contractor for the machinery and the electrification was done by Gibbs & Hill.

TAJOR BIBLIOGRAPHICAL REFERENCES

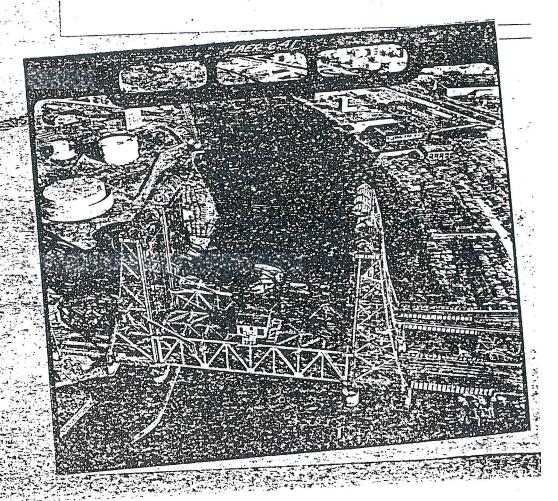
New York, McGraw-Hill Book Co., Inc. 1923.

dovey, Otis Ellis, Movable Bridges New York: John Wiley & Sons, Inc. 1926
Plowden, David. Bridges, the Spans of North America. New York: The Viking Press
U.S. DOT. Northeast Corridor High Speed Rail Passenger Service Improvement Project,
Tasks 15.1, 15.2, Vol. VI, Jan. 1977.

CONCRANGLE NAME UTW REFERENCES A 1.8 5.7 7.7 1.5 0.8 5.7 7.7 2.0 2	10 GEOGRAPHICAL DATA ACREAGE OF NOMINATED PROPERTY 1	
A 1. 8 4 7 7 7 7 6 8 20NE EASTING NORTHING 20NE EASTING 20NE EASTING NORTHING 20NE EASTING NORTHING 20NE EASTING 20NE EASTING NORTHING 20NE EASTING 20NE EASTING NORTHING 20NE EASTING	QUADRANGLE NAME Flizabeth	QUADRANGLE SCALE 1:21:000
VERBAL BOUNDARY DESCRIPTION Dock Bridge crosses the Passaic River from Newark, N.J. to Harrison, N.J. on the former Penn Central railroad line. USTALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES STATE CODE New Jersey ESSEX CODE New Jersey Hudson FORM PREPARED BY NAME/TITLE Janice Artemel, Cultural Resources Coordinator, October 24, 1977 ORGANIZATION DATE GITY OR TOWN THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and processive set forth by the National Park Service. Deputy THE EVALUATED SIGNIFICENTIAL AND THE PROPERTY SINCLUDED IN THE NATIONAL REGISTER THE PETROP THE NATIONAL REGISTER CODE VERBAL BOUNDARY HUSSIANE HISTORIC PRESERVATION OFFICE SERVATION THE EVALUATED SIGNIFICANCE OF THE NATIONAL REGISTER THE PETROP THE NATIONAL REGISTER CODE ONLY CODE COUNTY CODE COUNTY CODE COUNTY CODE COUNTY CODE New Jersey Hudson DATE CODE New Jersey FORM PREPARED BY HUDSON TO RESERVE COUNTY CODE NEW Jersey CODE CODE COUNTY CODE NEW Jersey CODE COUNTY CODE NEW Jersey CODE NEW Jersey CODE COUNTY CODE NEW Jersey CODE COUNTY CODE NEW Jersey CODE COUNTY CODE NEW Jersey CODE CODE COUNTY CODE NEW Jersey CODE CODE COUNTY CODE NEW Jersey CODE COUNTY CODE NEW Jersey CODE COUNTY CODE NEW Jersey CODE CODE COUNTY CODE NEW Jersey CODE COUNTY CODE NEW	A 1 8 47 d7 7 d 4 15 h 10 5 7 d ZONE EASTING NORTHING	ZONE EASTING NORTHING
VERBAL BOUNDARY DESCRIPTION Dock Bridge crosses the Passaic River from Newark, N.J. to Harrison, N.J. on the former Penn Central railroad line. LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES STATE CODE New Jersey CODE New Jersey CODE New Jersey CODE New Jersey Hudson FORM PREPARED BY NAME/TITLE Janice Artemel, Cultural Resources Coordinator, October 24, 1977 ORGANIZATION DATE STREET & NUMBER Deleuw, Cathee/Parsons & Associates, Northeast Configuration Project GIYOR TOWN THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Park Service. Deputy FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER CHEERE OF THE NATIONAL REGISTER CHEERE OF THE NATIONAL REGISTER DATE KEEPER OF THE NATIONAL REGISTER DATE	E	F L L L L L L L L L L L L L L L L L L L
Dock Bridge crosses the Passaic River from Newark, N.J. to Harrison, N.J. on the former Penn Central railroad line. LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES STATE CODE New Jersey Respect New Jersey New Jersey Hudson FORM PREPARED BY NAME/TITLE Janice Artemel, Cultural Resources Coordinator, October 24, 1977 ORGANIZATION Dalauw, Cather/Pareone & Associates, Northcast Corridor Toject GTY OR TOWN 1201 Connecticut Avenue, Room 1005 STATE STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and proceedings set touth by the National Park Service. Deputy Jermin State Historic Preservation of Environmental Protection FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER NATIONAL RESPECTIVE TOWN N.J. to Harrison, N.J. to Hudson, N.J. to Harrison, N.J. to Hudson, N.J. to Harrison, N.		H
STATE New Jersey	Dock Bridge crosses the Passaic River	from Newark, N.J. to Harrison, N.J. on
New Jersey STATE CODE New Jersey Hudson FORM PREPARED BY NAME/TITLE Janice Artemel, Cultural Resources Coordinator, October 24, 1977 ORGANIZATION Deleuw, Cather/Parsons & Associates, Northeast Corridor Project STREET & NUMBER AND PROJECT AVENUE, Room 1005 STATE Washington D. G. Washington D. G. STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in, the National Register and certify that it has been evaluated according to the criteria and proceeders set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER SIGNATURE TITLE PROPERTY Commissioner, Department of Environmental Protection FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER KEEPER OF THE NATIONAL REGISTER DATE KEEPER OF THE NATIONAL REGISTER DATE CHES. OF PROPERTY IN ATTEMATIONAL REGISTER DATE CHES. OF PROPERTY AND	LIST ALL STATES AND COUNTIES FOR PROPERTIES	OVERLAPPING STATE OR COUNTY BOUNDARIES
New Jersey New Jersey Hudson FORM PREPARED BY NAME/TITLE Janice Artemel, Cultural Resources Coordinator, October 24, 1977 ORGANIZATION Deleuw, Cather/Parsons & Associates, Northeast Corridor Project STREET & NUMBER 1201 Connecticut Avenue, Room 1005 STATE Washington D.G. Washington D.G. Washington D.G. STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in, the National Register and certify that it has been evaluated according to the criteria and proceeders set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER SIGNATURE THEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER REEPER OF THE NATIONAL REGISTER ATTERNATIONAL REGISTER DATE KEEPER OF THE NATIONAL REGISTER CHEEDER DESIGNATION	STATE CODE	COUNTY CODE
New Jersey Hudson FORM PREPARED BY NAME/TITLE Janice Artemel, Cultural Resources Coordinator, October 24, 1977 ORGANIZATION Date Delaw, Cather/Parsons & Associates, Northeast Correction Project CITY OR TOWN 1201 Connecticut Avenue, Room 1005 STATE Wachington D.C. 12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and proceedies set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER SENATURE TITLE PROPERTY Commissioner, Department of Environmental Protection FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER KEEPER OF THE NATIONAL REGISTER ATTERS: DATE CHEE OR DECISION TOW		
ORGANIZATION Date Date STREET & NUMBER 1201 Connecticut Avenue, Room 1005 STATE Washington D.C. STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER Stevarion Officer for the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. Deputy TITLE THE DEPUTY Commissioner, Department of Environmental Protection FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER CHEEDER OF THE NATIONAL REGISTER DATE CHEEDER OF THE NATIONAL REGISTER CHEEDER OF THE NATIONAL REGISTER DATE		196.
Deleuw, Cather/Parsons & Associates, Northeast Correction Project STREET & NUMBER 1201 Connecticut Avenue, Room 1005 STATE Washington D.C. 12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL STATE LOCAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and proceedings set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER SIGNATURE TITLE DEputy Commissioner, Department of Environmental Protection FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER KEEPER OF THE NATIONAL REGISTER DATE CHEECE REGISTRATION	NAME / TITLE	ces Coordinator, October 24, 1977
As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and proceedings set forth by the National Park Service. Deputy TITLE HOTEL STATE HISTORIC PRESERVATION OFFICER SENATURE DATE FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER KEEPER OF THE NATIONAL REGISTER CHEE OF DEPUTY TO THE NATIONAL REGISTER TO THE NATIONAL REGISTER TO THE NATIONAL REGISTER TO T	9	
Washington D.C. Washington D.C. THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and proceedies set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER SENATURE TITLE PROPERTY Commissioner, Department of Environmental Protection FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER DATE CHEE OF DECISION TON.	Deleuw, Cather/Parcons & Accocia	ates, Northeast Corridor Project
THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICER SIGNATURE TITLE HOTTORIC PRESERVATION OFFICER SIGNATURE DATE THEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER KEEPER OF THE NATIONAL REGISTER ATTEST: CAME OF DECISION TONK CHEE OF DECISION TONK CHEE OF DECISION TONK CHEE OF DECISION TONK THEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER CHEE OF DECISION TONK CHEE OF DECISION TONK CHEE OF DECISION TONK TO CHEE OF DECISION TONK THE EVALUATED SIGNIFICANCE OF THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER DATE CHEE OF DECISION TONK THE EVALUATED SIGNIFICANCE OF THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER DATE	ari on lower	SIAIE
THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS: NATIONAL		OFFICER CERTIFICATION
As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and proceedies set forth by the National Park Service. Deputy STATE HISTORIC PRESERVATION OFFICENSISMATURE DATE DATE DATE DATE DATE DATE DATE CHEEPER OF THE NATIONAL REGISTER DATE CHEEPER OF THE NATIONAL REGISTER DATE CHEEPER OF THE NATIONAL REGISTER DATE		
hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. Deputy STATE HISTORICE PRESERVATION OFFICER SIGNATURE TITLE ACCORDING TO THE NATIONAL REGISTER DATE DATE DATE DATE DATE DATE DATE DATE DATE CHEE OF THE NATIONAL REGISTER ATTEST: DATE	NATIONAL \$ STATE_	LOCAL
FOR NPS USE ONLY I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER DATE KEEPER OF THE NATIONAL REGISTER ATTEST: DATE	hereby nominate this property for inclusion in the National Region criteria and procedures set forth by the National Park Service. Deputy	
FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER DATE CHEE OF RECITE ATION CHEE OF RECITE ATION	TITLE Active Department of Fr	DATE NATE
CHEE OF DECITRATION	FOR NPS USE ONLY HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN	THE NATIONAL REGISTER
CHEE OF DECITRATION	ATTEST:	DATE
GPO P21-809	CHIEF OF REGISTRATION	



NECIP DeLEUW, CATHER/PARSONS
SUBJECT: Passaic River
VIEW: RR Bridge--aerial
LOCATION: Newark, N.J.
MILEPOST: 8.50
PHOTOGRAPHER: J. Boucher
DATE: April 1977





STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NEW JERSEY

JUL 21 1979

Mr. Charles A. Herrington
Acting Keeper of the National Register
Heritage Conservation and Recreation
Service
Department of the Interior
18th and C Streets, N.W.
Washington, D.C. 20243

Dear Mr. Herrington:

I am pleased to nominate the Dock Bridge, Newark, Essex County to the National Register.

This nomination has received the majority approval of the State Review Committee for Historic Sites.

Should you want any further information concerning this application, please feel free to contact the staff of the Office of Historic Preservation, Department of Environmental Protection, 109 West State Street, Trenton, New Jersey 08625, telephone (609) 292-2023.

Sincerely,

Betty Wilson

Deputy State Historic Preservation Officer

NAME Dock Bridge COUNTY Essex MUNICIPALITY Neubork City	TY H	TYPE: Individual Historic District Multiple Property Documentation Form	
NOMINATION FORM	ONJH FILES		
 Nomination form (If there are continuation sheets, please indicate number) First page (#1-6) Description (#7) 	<u> </u>	~~	
Significance (#8) Last page (#9-11) - SHPO Signatures - USGS Map - Site plan - Tax map - Floorplan - Photo index map - Other maps		CS:	
- Photographs (Indicate number)ExteriorInteriorStreetscapesOutbuildingsHistoricalNegativesContact Sheet	1 (photompies		
DATE OF LISTING State Register 7/21/77 National Register 10/3/80 SUPPLEMENTAL INFORMATION			
N.J.H.S.I. #	Correspondence Contextual Data		
STAFF MEMBER Party Governorm UPDATES: STAFF STAFF	DATE	7/7/	

NEW JERSEY AND NATIONAL REGISTER FILE Summary Sheet	REORGANIZATION - 1980-1	.981
NAME Deck Bridge		
MUNICIPALITY Mounek	COUNTY S	sex Co
Nomination Form: Final Nomination Form U.S.G.S. Map	Signed	Unsigned
Other Maps	Photocopy	
Plan(s): Site	Floor	
Photographs: <u>Identified</u>		
Exterior	Unidentified	Inadequate Coverage
Interior Streetscapes Outbuildings		
Historical		
Transportate 07/013	orints Additiona	1 Negatives
No precise boundaries Defined by map U.T.M.'s	Defined in nomination Latitude & longitude Boundary justification	
National Register notification of listi		,
Copies of final approved nomination:		
Other: Addorda		
SHPO Notification Letters: Intent to nominate National Owner list	Register State	Register
Supplemental Information: N.J.H.S.I. Newspaper/Magazine articles Local ordinance data Other Sipposis	Draft nomination Recent correspondence Maps HABS	
Materials in Storage: Public Meeting notification Newspaper articles Historical information	Draft nomination Correspondence Other	

	Certificati					
Section	106 Consult	tations a	nd Comme	nts		
Grants-	-in-Aid					
Notes:						
						·
	i and					
÷						•
2						
	**					

Reorganized by: _

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

FOR NPS USE ONLY	
RECEIVED	×

NATIONAL REGISTER OF HISTORIC PLACES

INVENTORY -- NOMINATION FORM DATE ENTERED SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS 1 NAME HISTORIC Dock Bridge AND/OR COMMON Railroad Lift Bridge over the Passaic River LOCATION STREET & NUMBER Passaic River NOT FOR PUBLICATION CITY, TOWN CONGRESSIONAL DISTRICT Newark VICINITY OF 10th STATE CODE COUNTY CODE New Jersev Essex 013 **3** CLASSIFICATION CATEGORY OWNERSHIP STATUS PRESENT USE __DISTRICT PUBLIC X_OCCUPIED __AGRICULTURE _BUILDING(S) X PRIVATE _MUSEUM _UNOCCUPIED __COMMERCIAL X STRUCTURE __PARK BOTH -WORK IN PROGRESS __EDUCATIONAL __PRIVATE RESIDENCE __SITE PUBLIC ACQUISITION **ACCESSIBLE** __ENTERTAINMENT __RELIGIOUS __OBJECT _IN PROCESS ¥YES: RESTRICTED __GOVERNMENT _SCIENTIFIC __BEING CONSIDERED __YES: UNRESTRIÇTED XTRANSPORTATION __INDUSTRIAL _NO _MILITARY _OTHER: **4** OWNER OF PROPERTY Northeast Corridor Operations, National Railroad Passenger Corporation/Amtrak STREET & NUMBER 1617 John F. Kennedy Building, Room 603 STATE Philadelphia 19103 5 LOCATION OF LEGAL DESCRIPTION COURTHOUSE. REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY, TOWN REPRESENTATION IN EXISTING SURVEYS Northeast Corridor Aerial Reconnaissance of Historic Structures 13-15 April 1977 FEDERAL _STATE _COUNTY _LOCAL DEPOSITORY FOR SURVEY RECORDS Federal Railroad Administration, DOT/HAER, National Park Service CITY TOWN Washington D.C.

CONDITION

__EXCELLENT X GOOD

__FAIR

__DETERIORATED

__RUINS __UNEXPOSED

CHECK ONE

XUNALTERED __ALTERED

CHECK ONE

XORIGINAL SITE

__MOVED DATE___

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Dock Bridge over the Passaic River in Newark, New Jersey, a through-truss lift bridge, was constructed in 1935 by Waddell & Hardesty, Consulting Engineers, after the patent of Dr. J.A.L. Waddell. It was constructed for the Pennsylvania Railroad with T.W. Pinard, Chief Engineer of the railroad.

The structure consists of two deck girder approach spans 94 feet and 64 feet long, respectively; a through Warren truss, with verticals, lift span 230 feet long and two deck girder approach spans 64 and 68 feet long, respectively. Bridge A8.50 carries three tracks and C8.50 carries one track. PATH trains are carried on a separate span. The bridges are side by side and operate independ-This bridge has two sets of lift towers supporting three lift towers. The south towers support two bridge structures. Each span has the moving machinery located at the center of the span on the top chord of the trusses.

The substructure is 24 feet above mean high water and the abutments and piers are concrete with stone facings. There are timber fenders on both sides of the channel at the rest piers.

The main drive motors are 260-horsepower DC series wound electric motors. There are electro-hydraulic trustor brakes on each motor. The motors are geared through common spur reduction gears on shafts which transmit power to the cable drums. Cables run over the cable drums to the end of the span where they pass over an idler sheave to the bridge sheave. The bridges are raised and lowered by uphaul and downhaul cables. The counterweight cables are attached to the top chord of the trusses and run over sheaves. There is a 150 horsepower gasoline engine in the machinery house of each span. This engine serves as an emergency power source. There are compressors in the operator's house basement for bridge floor and rail locks. There are AC motor DC generator sets in the operator's house at the north shore. The bridge operator occupies the fifth floor of this The operator's level contains the signal interlock box, track model board, reversing drum controllers, and navigation light control. There is a cable tunnel below the river for cables carrying single-phase and 3-phase 4150-volt AC.

The operator's level is the top floor of the five-level house on the north The house has shore. The other floors contain railroad electrical equipment. steam heating which was installed in 1974.

The bridge is in generally good condition with some minor deterioration of some structural elements and need for repair in the mechanical and electrical equipment.

SIGNIFICANCE

DOIF	AR	EAS OF SIGNIFICANCE CH	ECK AND JUSTIFY BELOW	
HISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	_LANDSCAPE ARCHITECTURE	RELIGION
0-1499	_ARCHEOLOGY-HISTORIC	CONSERVATION	_LAW	SCIENCE
0-1599	AGRICULTURE	ECONOMICS .	LITERATURE	-SCULPTURE
0-1699	ARCHITECTURE	EDUCATION	MILITARY	_SOCIAL/HUMANITARIAN
J-1799	ART	X_ENGINEERING	MUSIC	THEATER
0-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	_XTRANSPORTATION
)-	COMMUNICATIONS	INDUSTRY	POLITICS/GOVERNMENT	_OTHER (SPECIFY)
		INVENTION		

1935

JIFIC DATES

BUILDER/ARCHITECT

Waddell and Hardesty

EMENT OF SIGNIFICANCE

Dock Bridge is the only vertical lift bridge on the Northeast Corridor railroad route, and is the newest of the movable bridges on the Corridor. The structure is unique because of the operation of six tracks on three bridges with two lift spans.

Dr. J.A.L. Waddell was one of the first to patent a simplified and improved design of vertical lift bridge in the United States. Vertical lift bridges of small spans and low lifts were constructed in Europe at a fairly early date, but no vertical lifts of any size were constructed until the late 19th century. The consulting engineering firm for the construction of this structure, Waddell & Hardesty, used the patent of Dr. Waddell in the design of the bridge.

Vertical lift bridges were more widespread in the U.S. after 1908. This type is economical in construction and operation and has proven efficient in heavily trafficed areas because the span can be opened in less time than is required for a swing bridge. In addition, the span can be partially raised when height requirements are low. Heavy railroad traffic between New York City and Newark and the frequent openings necessary on the Passaic River make this structure critical to the operation of the Northeast Corridor railroad system.

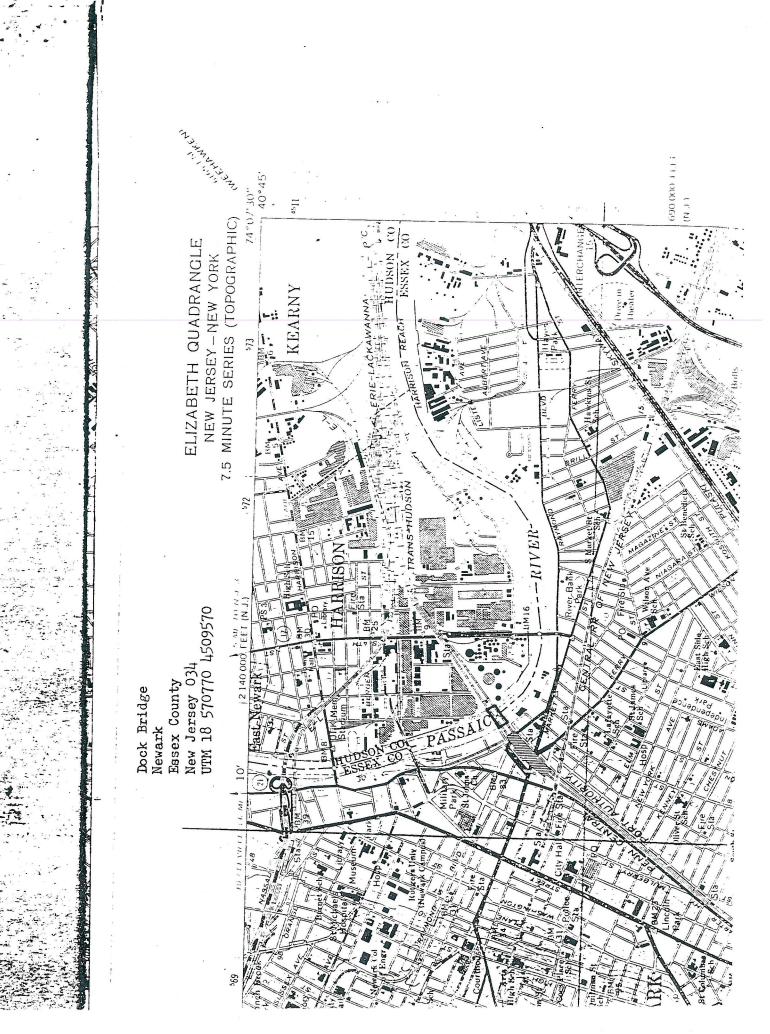
The machinery and electrical systems which were specifically designed for this bridge have not been significantly altered since their installation. Earle Gear and Machine Company of Philadelphia was the contractor for the machinery and the electrification was done by Gibbs & Hill.

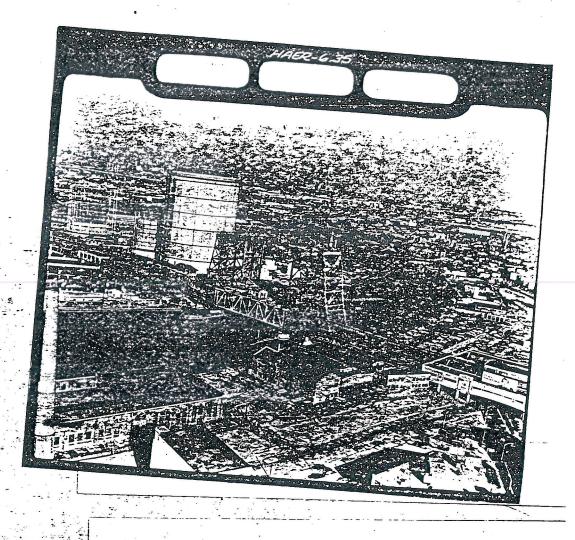
9 MAJOR BIBLIOGRAPHICAL REFERENCES

Hool, George A. and W.S. Kinne, eds. Movable and Long-Span Steel Bridges New York, McGraw-Hill Book Co., Inc. 1923.

Hovey, Otis Ellis, Movable Bridges New York: John Wiley & Sons, Inc. 1926
Plowden, David. Bridges, the Spans of North America. New York: The Viking Press
U.S. DOT. Northeast Corridor High Speed Rail Passenger Service Improvement Project,
Tasks 15.1, 15.2, Vol. VI, Jan. 1977.

10 GEOGRAPHICAL DATA
ACREAGE OF NOMINATED PROPERTY
QUADRANGLE NAME <u>Flizabeth</u> QUADRANGLE SCALE <u>1:21:000</u>
A 1 8 4 7 d 7 7 d 4 15 10 9 5 7 d B
E[$]$ $[$ $[$ $]$ $[$ $]$ $[$ $]$ $[$ $[$ $]$ $[$ $]$ $[$ $[$ $]$ $[$ $]$ $[$ $[$ $]$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $[$ $]$ $[$ $[$ $]$ $[$ $[$ $[$ $]$ $[$ $[$ $[$ $]$ $[$ $[$ $[$ $]$ $[$ $[$ $[$ $]$
GLILIII HLILIII HLIIIII
VERBAL BOUNDARY DESCRIPTION
Dock Bridge crosses the Passaic River from Newark, N.J. to Harrison, N.J. on the former Penn Central railroad line.
LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES
STATE
New Terson
STATE
New Jersey Hudson
11 FORM PREPARED BY
NAME / TITLE
Janice Artemel, Cultural Resources Coordinator, October 24, 1977
ORGANIZATION
STREET & NUMBER Cather/Parsons & Associates, Northeast Corridor Project
STREET & NUMBER TOJECT & ASSOCIATES, Northeast Corridor Project
CITY OR TOWN 1201 Connecticut Avenue, Room 1005
STATE
Washington D.C.
12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION
THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS:
NATIONAL ; STATE LOCAL
As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I
ncreally norminate this property for inclusion in the National Register and certify that it has been evaluated according to the
criteria and procedures set forth by the National Park Service. Deputy
STATE HISTORIC PRESERVATION OFFICER SIGNATURE
TITLE Statice Departy Commissioner, Department of Environmental Protection
ONATS USE CIVILIT
HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER
DATE
KEEPER OF THE NATIONAL REGISTER
DATE
CHIEF OF REGISTRATION





NECIP DeLEUW, CATHER/PARSONS SUBJECT: Passaic R. RR VIEW: Bridge

LOCATION: Newark, N.J.

MILEPOST: 8.50

PHOTOGRAPHER: Jack Bouche

DATE: April 1977

NECIP - DeLEUW, CATHER/PARSONS
SUBJECT: Passaic River
VIEW: RR Bridge -- aerial
LOCATION: Newark, N.J.
MILEPOST: 8.50
PHOTOGRAPHER: J. Boucher
DATE: April 1977

