

HB

74

FISCAL NOTE

I. REQUEST

Bill/Resolution No. HB74
 Title An Act...Nenana for Construction of Dock & Wharf Front Facilities
 Requested by House State Affairs Committee Date Feb. 3, 1983

II. FISCAL DETAIL

Agency Affected Administration
 Program Category Affected Municipal Grants
 ERU, Program, Or Subprogram(s) Affected _____
 (Note: If more than one budget component is affected, separate line-item amounts and funding for each component in the analysis section.)

EXPENDITURES (Thousands of Dollars)

	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88
100 PERSONAL SERVICES						
200 TRAVEL						
300 CONTRACTUAL						
400 COMMODITIES						
500 EQUIPMENT						
600 LAND & STRUCTURES						
700 GRANTS, CLAIMS, ETC.						
TOTAL		\$2500.0				

FUNDING (Thousands of Dollars)

GENERAL FUND		\$2500.0				
FEDERAL FUNDS						
OTHER (Specify Source)						

POSITIONS

FULL TIME						
PART TIME						
TEMPORARY						

III. ANALYSIS (See Fiscal Note Preparation Instruction, Section III)

This special appropriation is a grant to the city of Nenana under A.S. 37.05.315.

IV. DATE Feb. 9, 1983 PREPARED BY Kenneth E. Svale
 AGENCY Administration
 Original: Legislative Finance PHONE 465-2277
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)
 33-001 (Rev. 12/82)

PORT OF NENANA
 PROPOSED BULKHEAD EXPANSION
Estimate and Recommended Budget

<u>Sheetpile Supply</u>		
2,275,000# @ \$.40 =		\$ 900,000
<u>Sheetpile Fabrication</u>		
45 "Y" connections @ 2,100#		
	= 143,850# @ \$0.60 =	86,300
47 "T" connections @ 1,050#		
<u>Sheetpile Erection</u>		
2,635 LF @ \$200 =		527,000
<u>Bull Rail Supply</u>		
1,100 ft. @ 85# = 94,000# @ \$1.00 =		94,000
<u>Bull Rail Erection</u>		
94,000# @ \$0.50 =		47,000
<u>Fill</u>		
60,000 CY @ \$6 =		360,000
<u>Ridrap</u>		
500 CY @ \$30 =		15,000
<u>Mobilization and Demobilization =</u>		100,000
		\$2,129,300
Construction contingency		150,000
Surveys, soils and permit preparation		20,000
Administration and construction engineering		100,000
Design engineering		100,000
	Total Estimated 1983 Project Cost	\$2,499,300

Recommended Project Budget = \$2.5 Million





City of Nenana

State of Alaska

January 18, 1983

Mark Lewis, Commissioner
Department of Community & Regional Affairs
Pouch B
Juneau, Alaska 99811

Ref: Correspondence of January 13, 1983

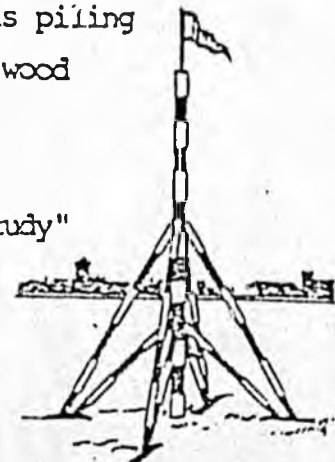
Dear Mr. Lewis,

For the past several years, the City of Nenana has been promoting the development of two major projects which have an impact on the economic development of a large portion of the State. These projects are:

- 1) Rehabilitation of the dock facilities at Nenana that provide service to the river freight transportation system for the Yukon River and its tributaries. Design and permitting for these improvements was performed in 1981 and 1982. The project was funded during the second session of the 12th Legislature, as part of the "bond bill" which Governor Hammond eventually vetoed.

Reconstruction of the dock is vitally important—especially the replacement of that wood piling installed by the Alaska Railroad circa 1937. This piling is rotted and falling in the river. The City plans on replacing the wood piling with 1,000 l.f. of steel sheetpile bulkhead.

Attached is a copy of the "Port of Nenana-Bulkhead Expansion Study" done by Peratrovich and Nottingham in 1981. A project budget of \$2.5 million is recommended.



A RESOLUTION AUTHORIZING THE MAYOR OF THE CITY OF NENANA OR HIS DESIGNATED REPRESENTATIVE TO PURSUE FUNDING REQUESTS AND ENTER INTO AGREEMENTS WITH THE STATE OF ALASKA FOR PURPOSES OF ACCOMPLISHING THE FOLLOWING CAPITAL IMPROVEMENT PROJECTS;


ON A STATEWIDE BASIS:

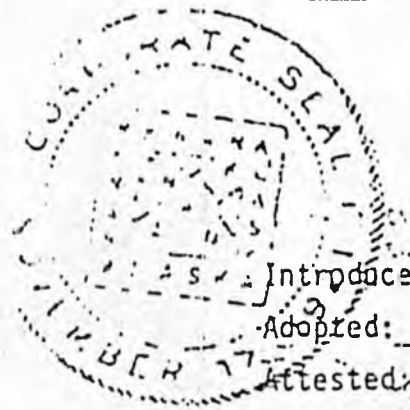
1. REHABILITATION OF THE TANANA RIVER DOCK AND WATER FRONT FACILITIES AT NENANA THAT PROVIDE SERVICES FOR DELIVERY OF FREIGHT TO ALL VILLAGES ALONG THE YUKON RIVER
2.5 MILLION

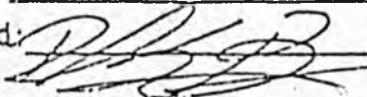
2. DEVELOPMENT OF THE TOTCHAKET RESOURCE AREA, INCLUDING AGRICULTURE, MINERALS, AND TIMBER
 - a. NENANA RIVER BRIDGE 3.8 MILLION
 - b. BRIDGES ACROSS LITTLE NENANA RIVER, EAST AND WEST MIDDLE RIVERS 1.9 MILLION
 - c. 22.8 MILES OF ROADWAY 10.1 MILLION
 - d. THREE PHASE ELECTRICAL POWER 1.3 MILLION

3. CONSTRUCTION OF THE INTERIOR STATE FIRE FIGHTING CENTER 1.4 MILLION

Adopted by the Municipal Assembly of the City of Nenana, Alaska on this 11th day of November, 1982, by a vote of 5 for and 0 against.

By: 
John B. Coghill, Mayor
City of Nenana



Introduced: Nov. 11, 1982
Adopted: Nov. 11, 1982
Attested: 



Peratrovich, Nottingham & Drage, Inc.

Engineering Consultants

1506 West 36th Avenue • Suite 101 • Anchorage, Alaska 99503 • 907-277-8633

January 20, 1983

PN&D 81059

Mr. Steve Bainbridge, City Engineer
City of Nenana
P.O. Box 177
Nenana, Alaska 99760

Re: Port of Nenana Bulkhead Expansion

Dear Mr. Bainbridge:

In accordance with your request, we have updated the 1981 preliminary study for the above referenced project. Included in this report are our initial findings and an updated projected budget.

Parts of the original study included a site visit to Nenana, contact with the USGS in Fairbanks regarding river parameters, inspection of Alaska Railroad-owned salvaged sheetpile material in Anchorage, and research of Alaska Railroad files and documents. The cost for the salvaged Railroad-owned sheet piling is no longer competitive.

From this effort, we concluded the following:

1. A 1,000-foot bulkhead extension, as shown on the attached drawing is possible.
2. This extension, properly placed, would create a longer usable dock and avoid riverbed deposition.
3. About 2.5 acres of additional improved marine use uplands would be created, and at least 800 linear feet of usable dock frontage would result.
4. Flood elevations are not expected to be significantly impacted, although this needs to be accurately established through more engineering work.
5. Suitable fill and riprap material is available near Nenana.
6. Riverbed materials are suitable for the type of construction envisioned.


As we noted before, due to an apparent constriction and the potential to raise flood levels, the Corps of Engineers will probably require an accurate analysis to show that flood levels will not increase significantly (usually less than one foot).

January 20, 1963
Mr. Steve Bainbridge
Page -2-

We hope this report addresses your needs; and should you have any questions,
please contact us at any time.

Sincerely,

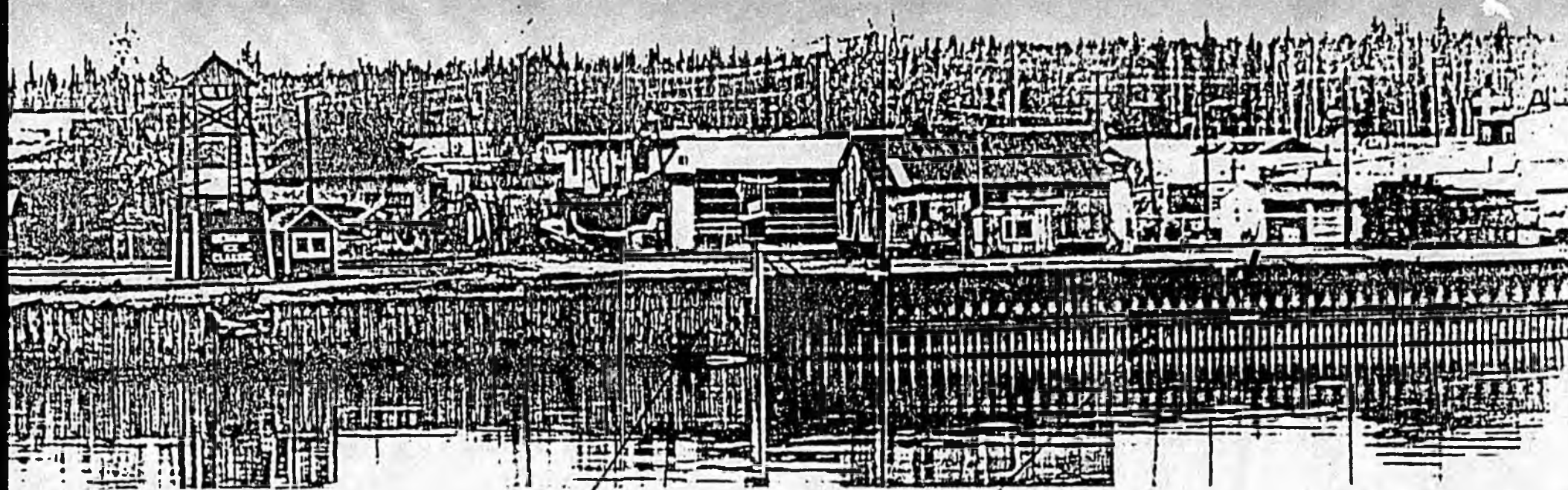
PERATROVICH, NOTTINGHAM & DRAGE, INC.


Roy Peratrovich, Jr., P.E.
Vice President

RP/bm/L2-81080

Enclosures





OLD TIMBER BULKHEAD

STEEL SHEETPILE BULKHEAD

**TYPICAL EXISTING BULKHEAD
PORT OF NENANA**

COMMITTEE REPORT

HOUSE

FINANCE

FURTHER:

2/11/83

Date: 2-17-83

Mr. Speaker:

The Committee on TRANSPORTATION has had HB 74

An Act making a special appropriation to the City of Nenana for rehabilitation of the Tanana River dock and waterfront facilities; and providing for an effective date.

under consideration and reports it back as follows:

- do pass do not pass
- do pass with attached amendments(s)
- replace with CS for _____ same title
 new title
- and recommends _____
- AND attaches a "Letter of Intent" New Fiscal Note
- reports it back without recommendation Zero Fiscal Note Attached
- referred to the _____ Committee

**MEMBERS SIGNING
DO PASS**

**MEMBERS HAVING
OTHER RECOMMENDATIONS:**

[Handwritten signatures and notes under "MEMBERS SIGNING DO PASS"]

CHAIRMAN

Nenana City Port Authority

P.O. Box 177
Nenana, Alaska 99760
(907) 832-5564

NENANA CITY PORT DEVELOPMENT - August 1980 thru February 1982

In July of 1980, the Division of Transportation-Federal Railroad Administration (DOT-FRA) finalized their decision to have the Alaska Railroad (ARR) dispose of their fleet of vessels that provides barge transportation on the Tanana and Yukon Rivers. Department of Transportation indicated that the Alaska Railroad should begin immediately, working thru the General Services Administration (GSA), to consummate the sale and disposal of all government property related to the Yukon-Tanana barge operation.

The City had to intercede quickly to alter the proposed surplus and GSA sale of the barge and tug fleet. Most any group engaged in "year-round" freight shipping activities could afford to pay a much greater price than a company that would be restricted to recovering their investment with a barge operation that functioned only four months a year-so there was a very real threat that the Railroad's tug and barge fleet could easily be purchased by an outside group if put on the open-bid market.

On the 30th of August, 1980, the City Council of Nenana unanimously approved Resolution 80-10, authorizing the Mayor of Nenana, or his designated representative, to negotiate the purchase and transfer of all the floating stock, related equipment and adjoining lands from the Alaska Railroad to the City of Nenana. A copy of this authorization was delivered to the Alaska Railroad to initiate a proposal for a negotiated sale from the Alaska Railroad to the City of Nenana.

To arrive at a fair market value of the property involved, appraisals of this property were completed. Having arrived at a price for the transaction, a "Letter of Intent to Purchase" between the City of Nenana and the Alaska Railroad was taken to the Alaska Municipal Bond Bank, where a sequence of events was arrived at which would provide for the securing of 2.5 million dollars financed by primary source (general obligation) bonds. Revenue bonds had been considered, but with the prevailing high interest rates, revenue issues were expected to approximate the 30 Utility Index (10.84%), while general obligation bond interest rates would approximate the 20 Bond Index (9.90%). A one percent interest differential applied to 2.5 million dollars could mean the difference between an economically feasible project and one that wouldn't show a positive cash flow.

So structured, the City of Nenana began the procedures necessary to obtain local voter approval of the issuance of 2.5 million dollars in general obligation bonds. The ordinance authorizing this issuance of general obligation bonds was introduced on January 23, 1981. A public hearing and adoption of the ordinance was held on February 2, 1981, and on February 24, 1981, the voters approved the bond issuance.

The actual sale of the barges and tug owned by the Alaska Railroad was finalized on June 11, 1981. This transaction included a comprehensive lease of real property owned by the Alaska Railroad, and situated within the City limits of Nenana, that was considered to be vital to the operation of the port facilities.

This included:

197.3 Acres of land within U.S.S. 1138;
27.0 Acres of improved land adjacent to the marine ways;
8.03 Acres of land comprising the main dock area;
1,500 l.f. of steel sheet piling; and
10 smaller parcels of property consisting of approximately 6.42 acres of land.

TOTAL ACREAGE: 238.75 ACRES

With the sale and lease transactions in place, the City of Nenana formed a Port Authority which was charged with administering a charter of the vessels and leases of individual parcels of property, along with establishing a franchise for the operation of the dock facilities. During the 1981 shipping season, river freight service was provided to those communities located along the Yukon River and its tributaries without interruption - This was the main intent behind the City of Nenana's efforts to keep the existing Alaska Railroad river transportation infrastructure in place at Nenana.

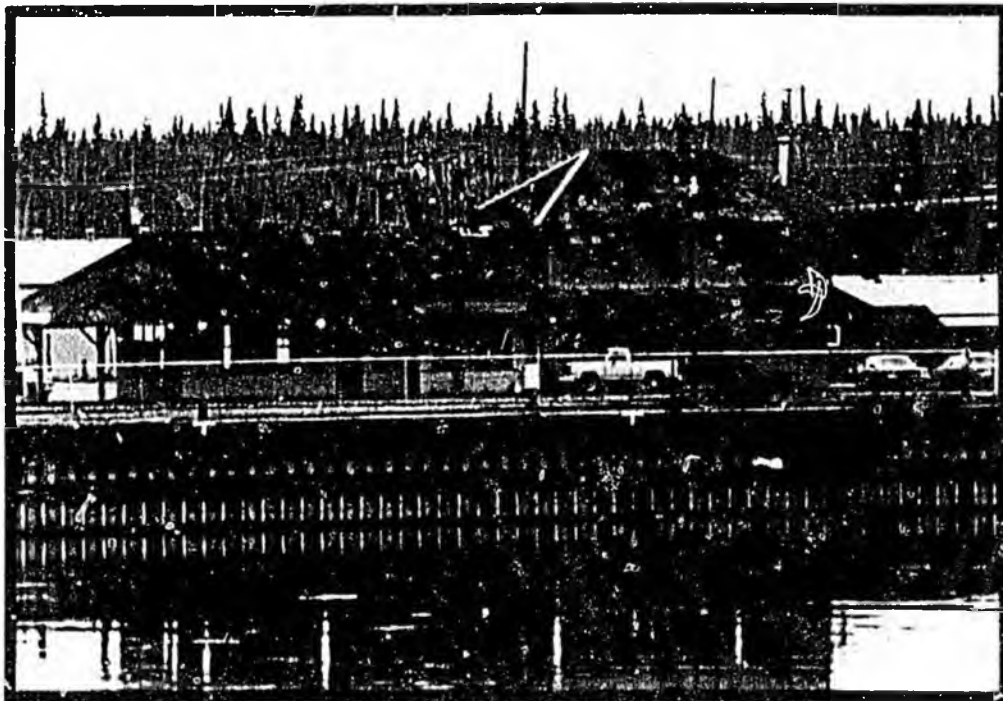
As the Nenana Port Authority embarks on its second season of operation, the most urgent need is to provide more usable dock space. To this need, the Port Authority has moved two older shop buildings off of the dock. The next logical area to develop more usable dock space is along that river bank now shored with wood piling. This wood piling was installed by the Alaska Railroad in approximately 1937. Most of this piling is rotted and highly susceptible to failure and collapse, but the area is still utilized for loading and off loading of heavy equipment and miscellaneous cargo. Given the increased volume of freight across the dock each year, it will not be long before an accident occurs in this area.

Realizing this, the Port Authority retained the engineering design firm of Peratrovich and Nottingham to develop a bulkhead expansion project in this area. Based on this design work, the City of Nenana proposes to provide for an additional 1,000 l.f. of steel sheetpile bulkhead to the east of that existing sheetpile bulkhead installed along the Tanana River by the Alaska Railroad in approximately 1952 (the existing steel sheetpile and tieback system is in excellent condition). The existing wood piling would be left in place, and an estimated 60,000 cubic yards of fill material would be placed in the river, thereby creating an additional 2.5 acres of dock space. MP 101 sheetpile sections would be utilized to provide a steel facing and tieback system for the new dock area. (A supply of surplus MP 101 sections have been located by the City and are available for immediate shipment upon securing of the funding for this project). The total recommended funding for this project is \$1.8 Million (see Port of Nenana-Proposed Bulkhead Expansion-

Estimate and Recommended Budget--by Peratrovich & Nottingham, Inc., January 6, 1982)

The City of Nenana is working very closely with the Alaska Railroad during the various phases of this project. Both the City and the Alaska Railroad are assuming a great liability, given the increased utilization of the wooden dock area in its present condition. Furthermore, with the tonnage of river freight increasing every year, current dock facilities in Nenana are, and will continue to be, inadequate for the handling of freight destined for those communities along the Tanana River and Yukon River which depend upon the Nenana port facilities and river transportation system for delivery of freight and petroleum products.

Prepared by: Steve Bainbridge, P.E.
Port Director-City of Nenana
February 26, 1982



PORT OF NENANA ALASKA

BULKHEAD EXPANSION STUDY

1981



Peratrovich & Nottingham, Inc.
Engineering Consultants



Peratrovich & Nottingham, Inc.

Engineering Consultants

1506 W. 36th Ave. • Suite 101 • Anchorage, Alaska 99503 • 907-272-8491

January 6, 1982

P&N 81080

Mr. Steve Bainbridge, City Engineer
City of Nenana
P.O. Box 177
Nenana, Alaska 99760

Re: Port of Nenana Bulkhead Expansion

Dear Mr. Bainbridge:

In accordance with your authorization, we have completed a preliminary study for the above-referenced project. Included in this report are our initial findings and a projected budget that contains certain cost assumptions, as will be discussed.

Parts of this study included a site visit to Nenana, contact with the USGS in Fairbanks regarding river parameters, inspection of Alaska Railroad-owned salvaged sheetpile material in Anchorage, and research of Alaska Railroad files and documents.

From this effort, we have concluded the following:

1. A 1,000-foot bulkhead extension, as shown on the attached drawing appears possible.
2. This extension, properly placed, would create a longer usable dock and avoid riverbed deposition.
3. Sufficient suitable salvaged sheetpile material exists in Alaska to accomplish the project.
4. About 2.5 acres of additional improved marine use uplands would be created, and at least 800 linear feet of usable dock frontage would result.
5. Flood elevations are not expected to be significantly impacted, although this needs to be accurately established through more engineering work.
6. Suitable fill and riprap is available near Nenana.
7. Riverbed materials are suitable for the type of construction envisioned.

January 6, 1982
P&N 81080
Mr. Steve Bainbridge
Page -2-

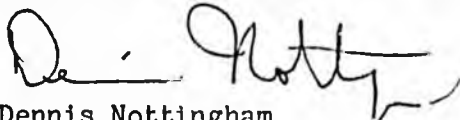
Immediate additional work required, which may impact fall 1982 completion, is permit preparation. Due to an apparent constriction and the potential to raise flood levels, the Corps of Engineers will probably require an accurate analysis to show that flood levels will not increase significantly, usually less than one foot.

The attached cost estimate has been prepared by using some cost assumptions connected with used sheetpiles. However, we feel that it will be an accurate starting point upon which future decisions can be made.

We hope this report addresses your needs; and should you have any questions, please contact us at any time.

Sincerely,

PERATROVICH & NOTTINGHAM, INC.



Dennis Nottingham
President

DN/gh/L2-h



PORT OF NENANA
PROPOSED BULKHEAD EXPANSION
Estimate and Recommended Budget

Sheetpiles Supply

2,275,000# @ 0.10 = \$ 227,500
(mainly shipping and handling)

Sheetpile Fabrication

45 "Y" connections @ 2,100#
= 143,850# @ 0.60 = 86,310
47 "T" connections @ 1,050#

Sheetpile Erection

2,635 LF @ \$230 = 606,050

Bull Rail Supply

1,100 ft. @ 85# = 94,000# @ \$0.10 = 9,400

Full Rail Erection

94,000# @ \$0.50 = 47,000

Fill

60,000 CY @ \$6 = 360,000

Riprap

500 CY @ \$30 = 15,000

Mobilization and Demobilization =

100,000

\$1,451,260

10% Contingency 145,126

Surveys, soils and permit preparation 20,000

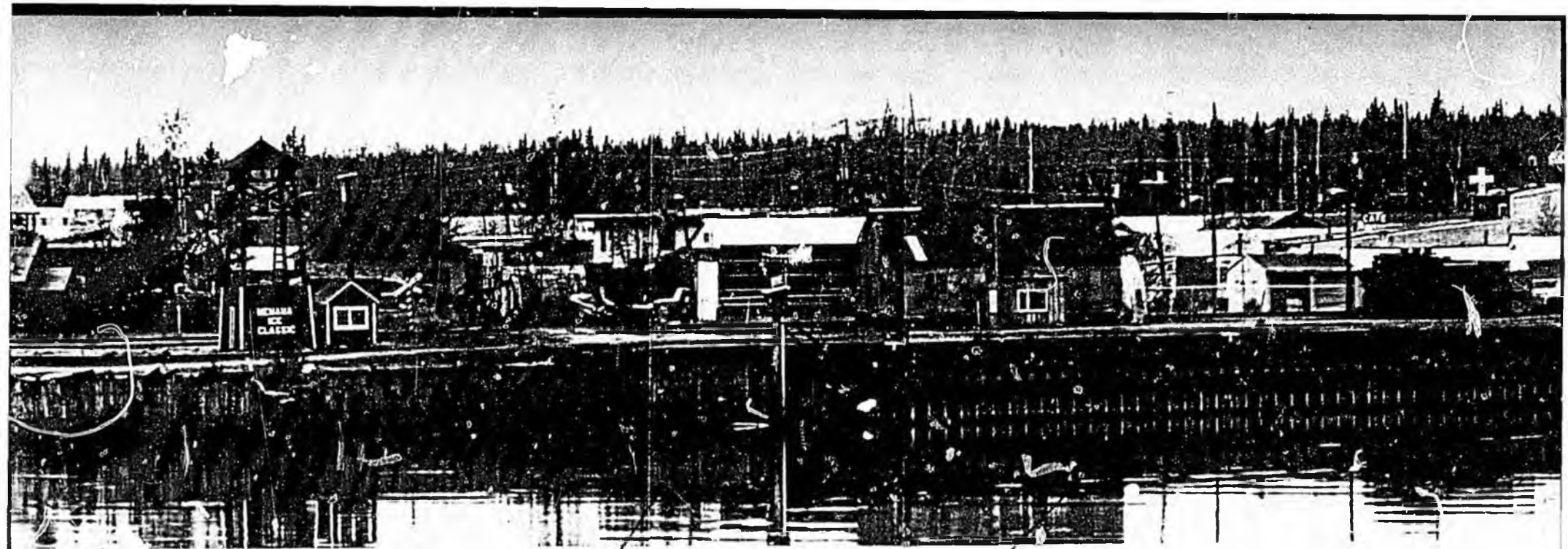
5% Administration and construction engineering 72,563

6% Design engineering 87,076

Total Estimated 1982 Project Cost \$1,776,025

Recommended Project Budget = \$1.8 Million

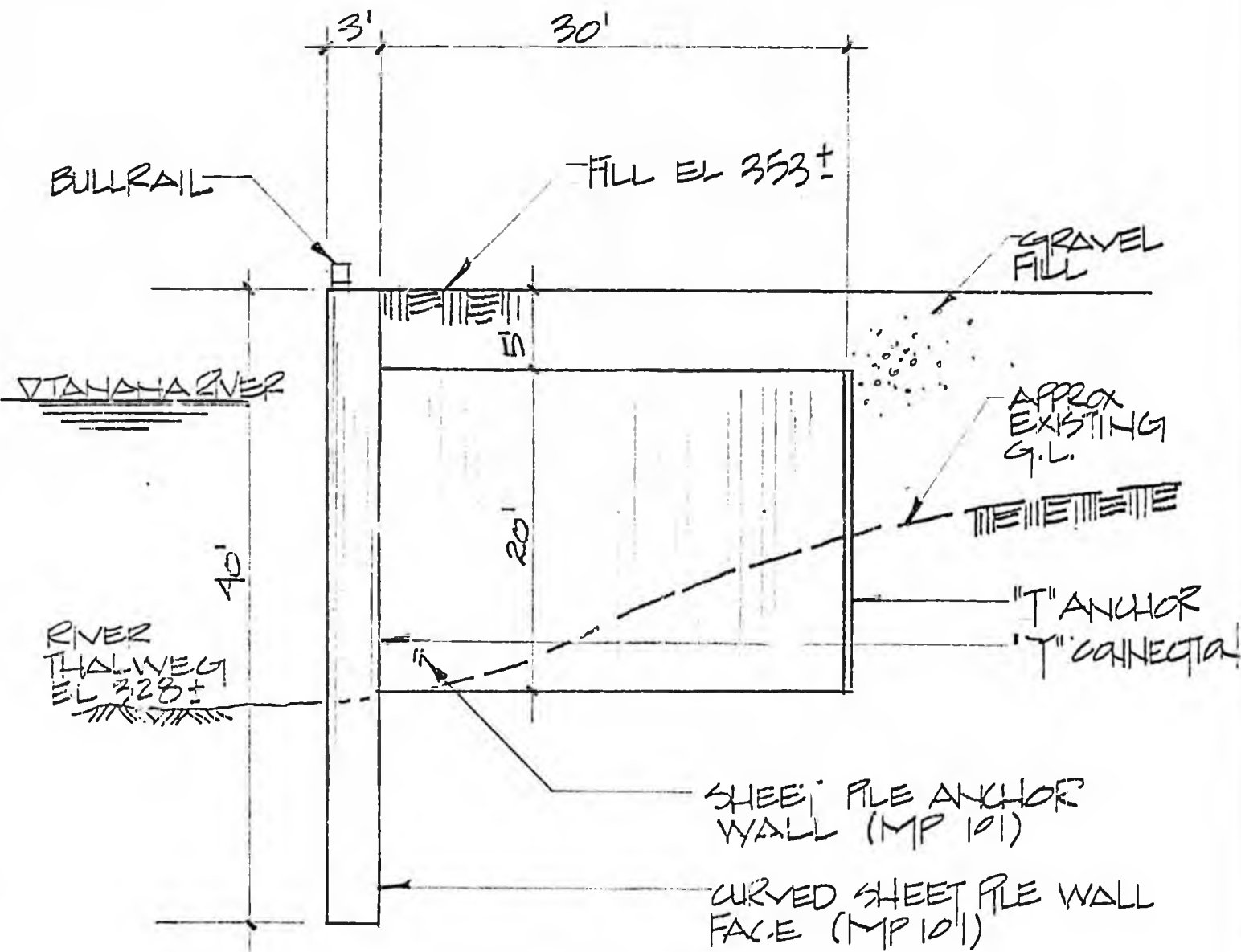




OLD TIMBER BULKHEAD

STEEL SHEETPILE BULKHEAD

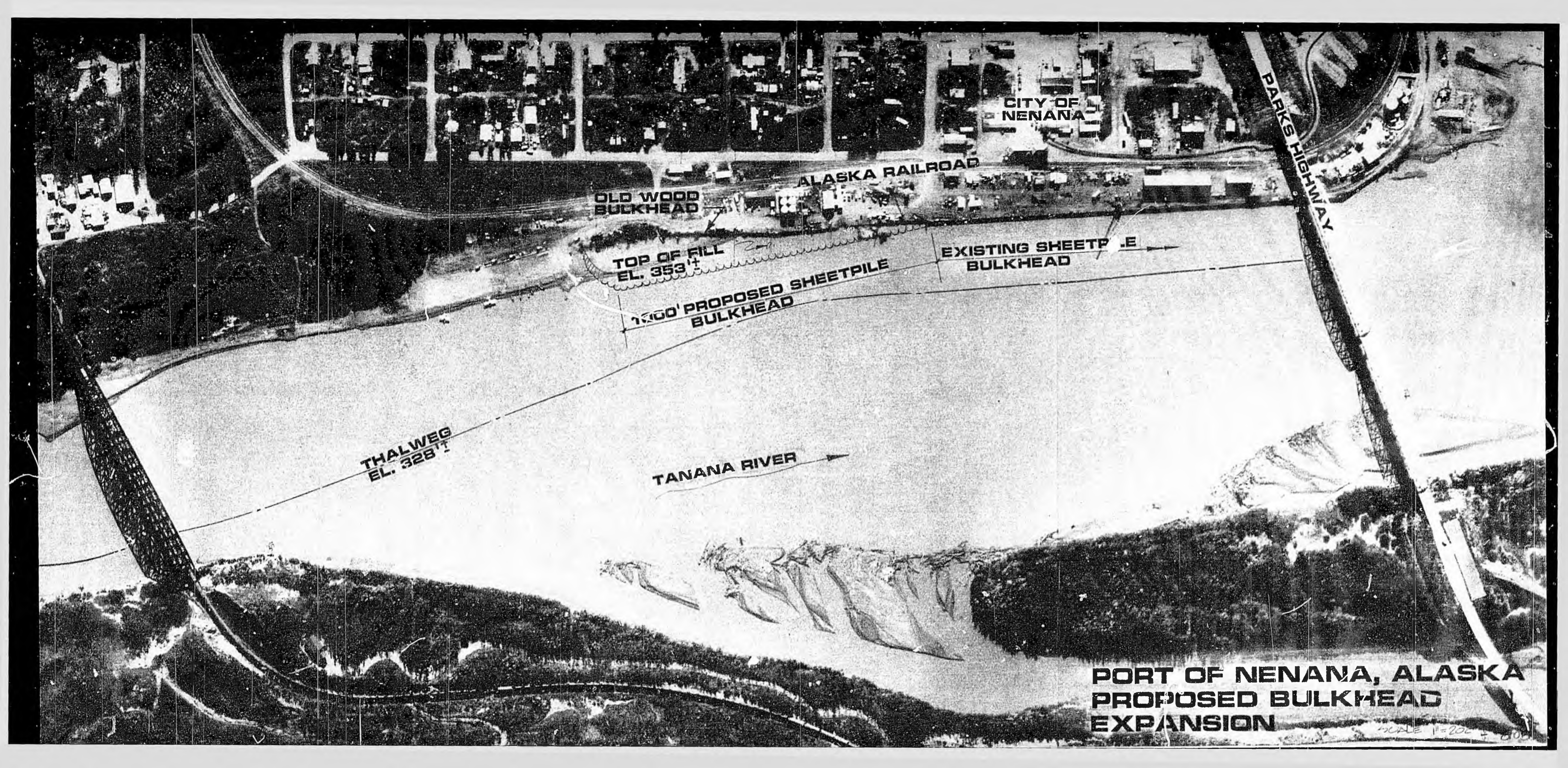
**TYPICAL EXISTING BULKHEAD
PORT OF NENANA**



TYPICAL BULKHEAD SECTION

**PORT OF NENANA,
ALASKA**

**PROPOSED BULKHEAD
EXPANSION**



CITY OF NENANA

ALASKA RAILROAD

OLD WOOD BULKHEAD

PARKS HIGHWAY

TOP OF FILL
EL. 353

EXISTING SHEETPILE
BULKHEAD

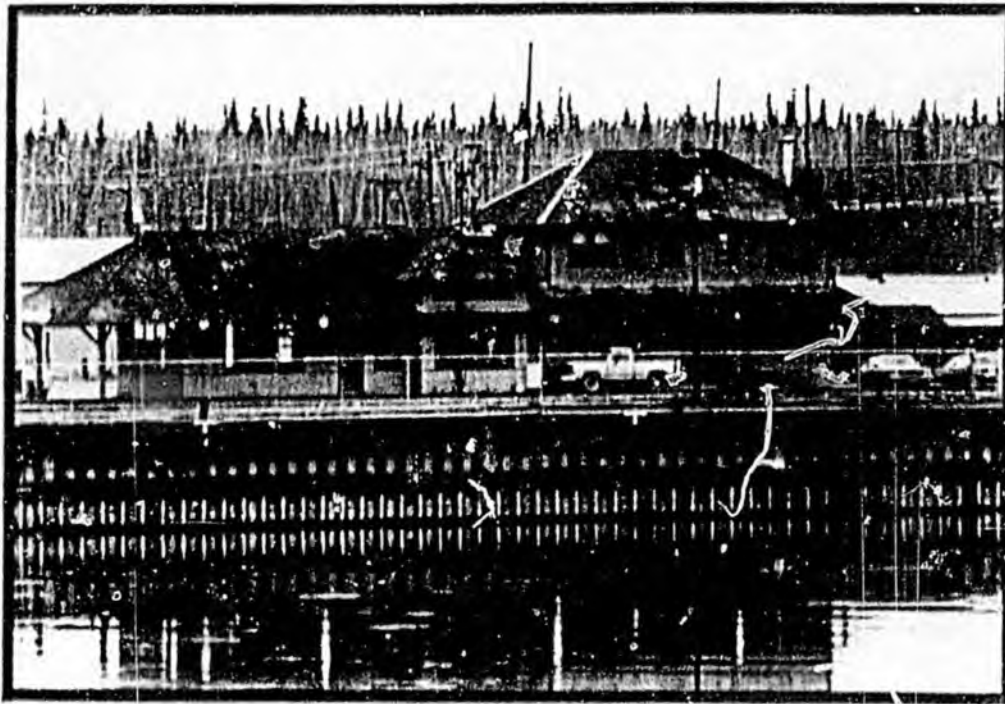
1700' PROPOSED SHEETPILE
BULKHEAD

THALWEG
EL. 328

TANANA RIVER

PORT OF NENANA, ALASKA
PROPOSED BULKHEAD
EXPANSION

SCALE 1" = 200'



PORT OF NENANA ALASKA

BULKHEAD EXPANSION STUDY



Peratovich, Nottingham & Drage, Inc.
Engineering Consultants



Peratrovich, Nottingham & Drage, Inc.

Engineering Consultants

1506 West 36th Avenue • Suite 101 • Anchorage, Alaska 99503 • 907-277-8633

January 20, 1983

PN&D 81059

Mr. Steve Bainbridge, City Engineer
City of Nenana
P.O. Box 177
Nenana, Alaska 99760

Re: Port of Nenana Bulkhead Expansion

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January 20, 1983
Mr. Steve Bainbridge
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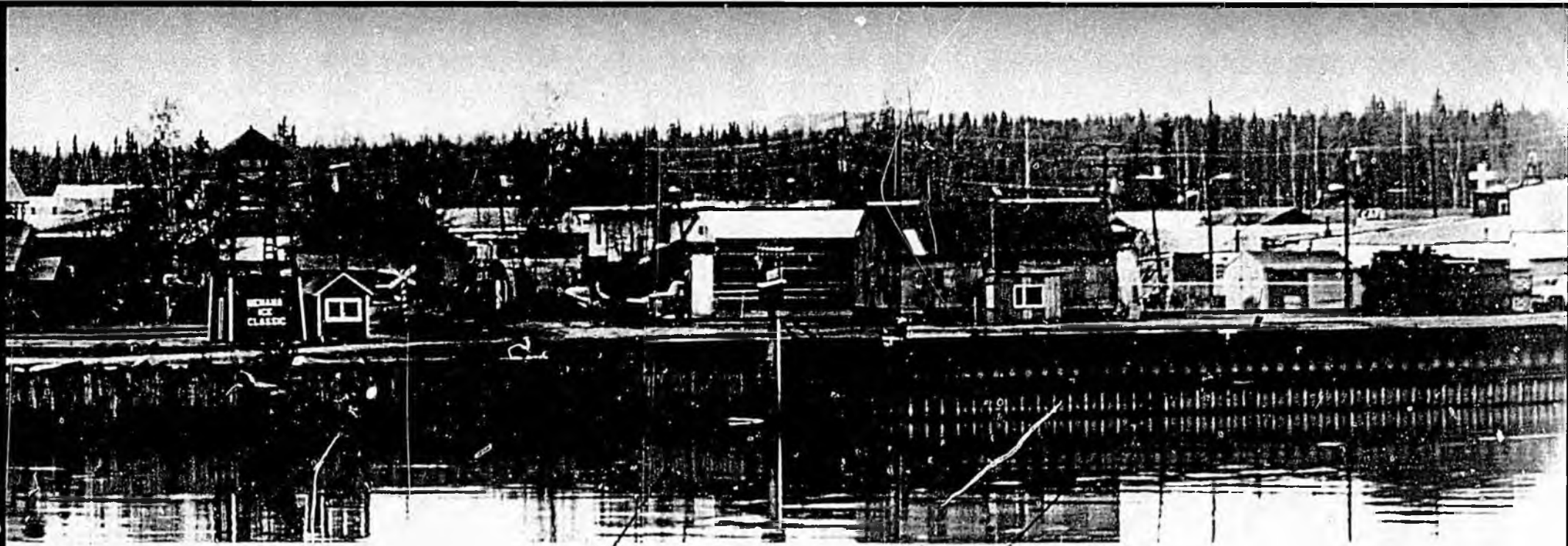
PERATROVICH, NOTTINGHAM & DRAGE, INC.


Roy Peratrovich, Jr., P.E.
Vice President

RP/bm/L2-81080

Enclosures





OLD TIMBER BULKHEAD

STEEL SHEETPILE BULKHEAD

**TYPICAL EXISTING BULKHEAD
PORT OF NENANA**

PORT OF NENANA
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Recommended Project Budget = \$2.5 Million

