

U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION



PLANS FOR PROPOSED PROJECT DENALI COMMISSION STUDY ATMAUTLUAK BOARDWALK AND BOAT DOCK VILLAGE OF ATMAULUAK ALASKA

LENGTH 145 FEET

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ALASKA KEY MAP

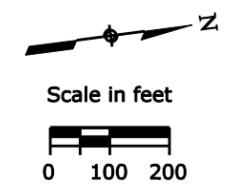
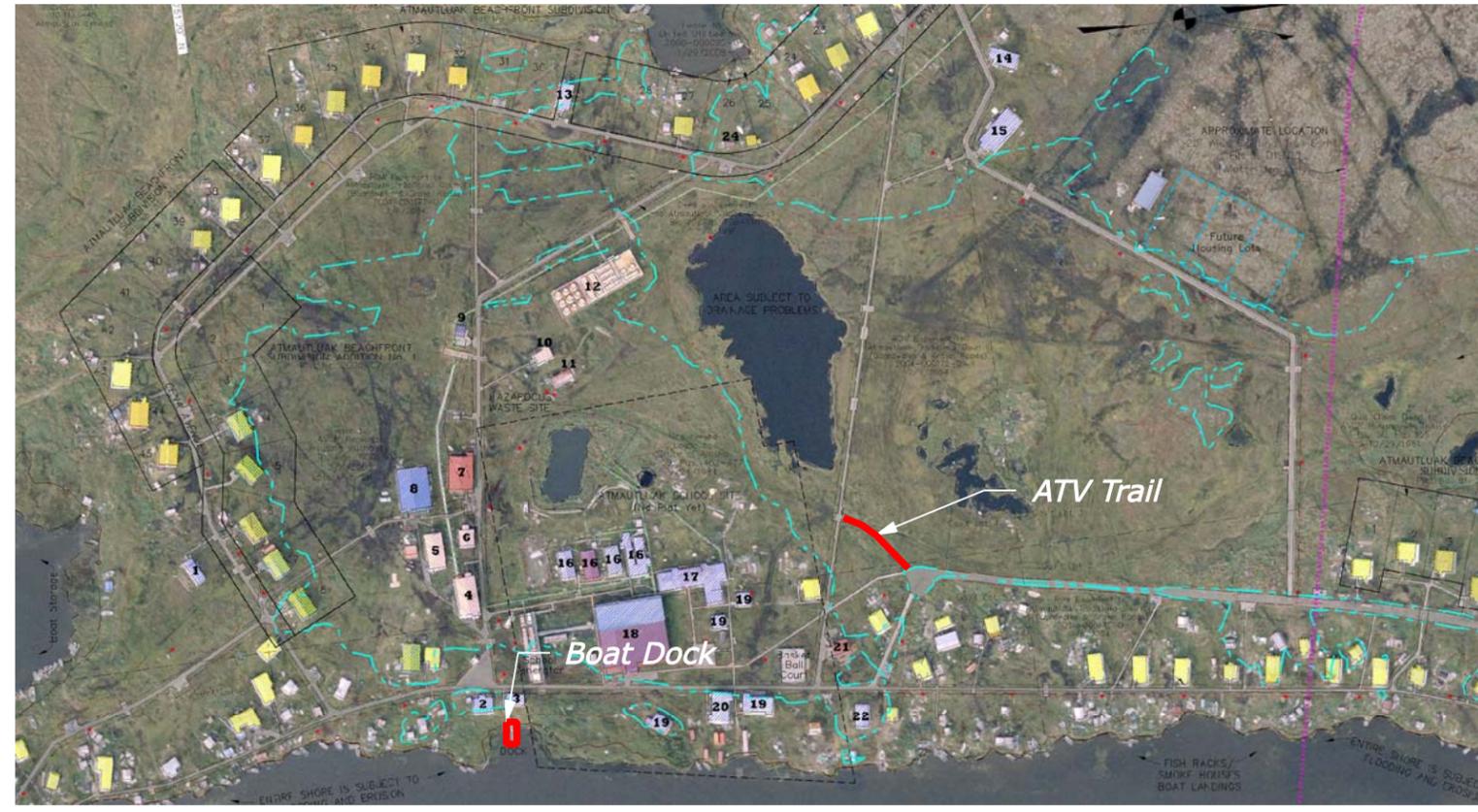
TYPE OF CONSTRUCTION:
BOARDWALK INSTALLATION AND BOAT DOCK REPLACEMENT

DESIGN DESIGNATION:
BOARDWALK AND BOAT DOCK

**FOR PLANNING AND SCOPING PURPOSES ONLY
NOT FOR CONSTRUCTION**



PLANS PREPARED BY
**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**
WESTERN FEDERAL LANDS HIGHWAY DIVISION
VANCOUVER, WASHINGTON



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PROJECT MANAGER
M. TRAFFALIS

DESIGN AND CONSTRUCTION

MATERIAL SOURCE:

All construction material will need to be imported.

CONSTRUCTION RESOURCES:

General labor from the village is available for employment.

TRANSPORTATION:

The village can be accessed by water with landing boats or small boats. There is no dock for barge access to the village.

The village can be accessed by air.

Local ground transportation is primarily ATVs.

RIGHT-OF-WAY

Land ownership must be verified.

ENVIRONMENTAL COMPLIANCE

Projected NEPA Document Type:

Categorical Exclusion

Projected Permits and Compliance Actions:

Section 404 Nationwide Permit
 Section 106 Cultural Consultation
 ESA Section 7 Consultation
 Coastal Zone Consistency

Projected Time to Complete Environmental Compliance:

6-12 months

**PROJECT NOTES
AND FINDINGS**

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 D. Checker
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SUMMARY OF QUANTITIES

STATE	PROJECT	SHEET NUMBER
AK	DEN 2008	B.1

PLAN SHEET SECTION ----->>			Section C Typical Section	Section D Vicinity Map	Section E Dock							ESTIMATED QUANTITY		ESTIMATED COST		
ITEM	DESCRIPTION	UNIT										PLAN	BID SCHEDULE	UNIT COST	AMOUNT	
15101-0000	MOBILIZATION	LPSM											ALL	ALL	\$11,000.00	\$11,000.00
55504-7999	20'x 4' ALUMINUM GANGWAY	LPSM											ALL	ALL	\$12,034.00	\$12,034.00
55504-8999	26' x 5' PRE-FABRICATED FLOATING DOCK	LPSM											ALL	ALL	\$11,550.00	\$11,550.00
60303-1000	BOARDWALK SYSTEM	SQFT	1,160										1,160	1,160	\$75.00	\$87,000.00

TOTAL BID ITEMS: \$121,584.00

20% CONTINGENCY: \$24,316.80

10% ENVIRONMENTAL MITIGATION: \$12,158.40

TOTAL CONSTRUCTION COST: \$158,059.20

15% PE COST: \$23,708.88

10% CE COST: \$15,805.92

D. Checker

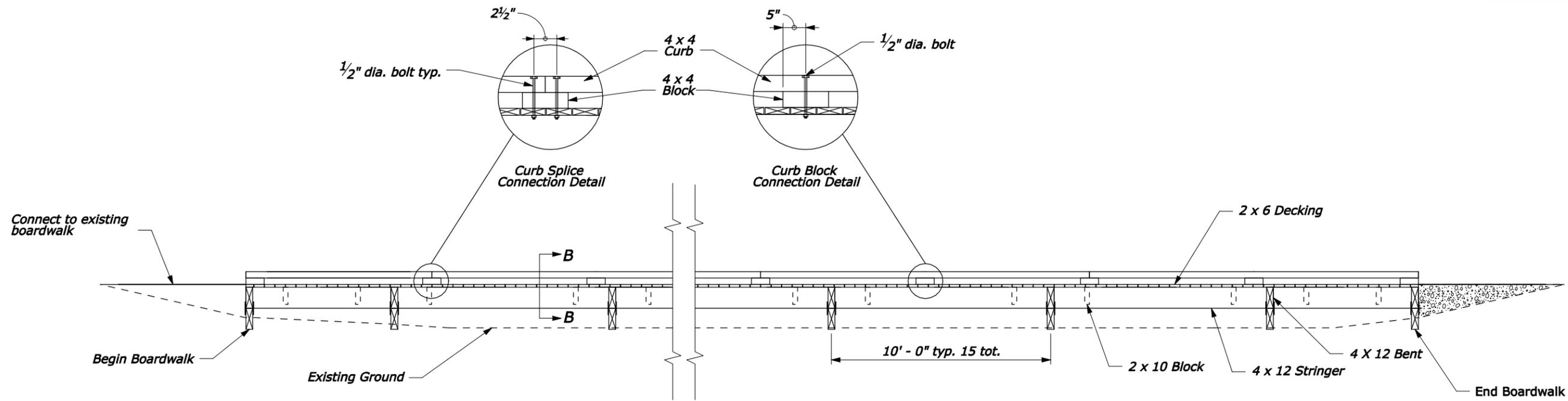
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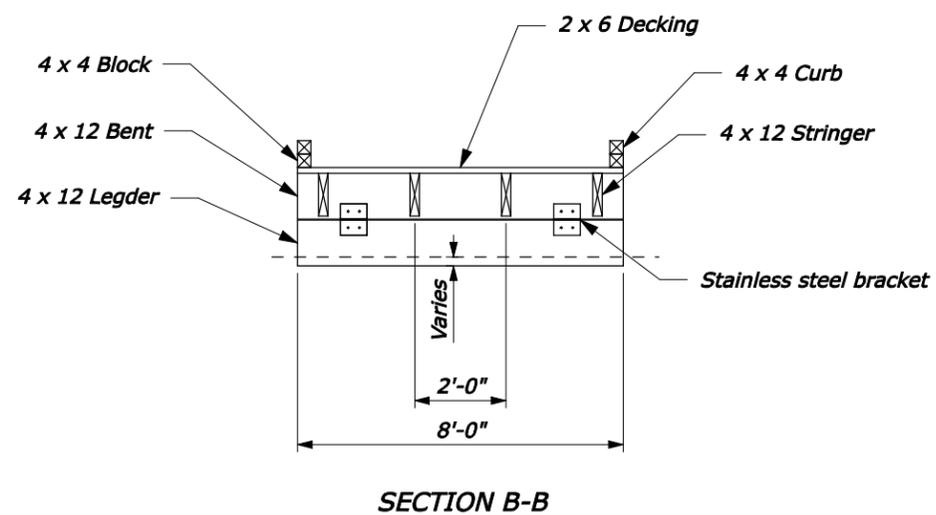
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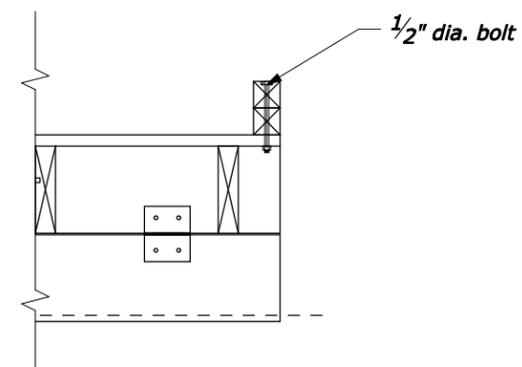
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Boardwalk Profile
145 ft. length



SECTION B-B



Curb Connection Detail

NOTE:

1. Provide 1/4" spacing between 2 x 6 decking members.
2. Provide 2 x 10 blocking between 4 x12 stringer members on either side of 4 x 12 bent members.
3. Attach 4 x 12 stringer members to 4 x 12 bent members with hanger type attachment capable of supporting 1,200 lbs.
4. Attach 2 x 6 decking to 4 x 12 stringer with (2) 16d nails per stringer (outside members only).

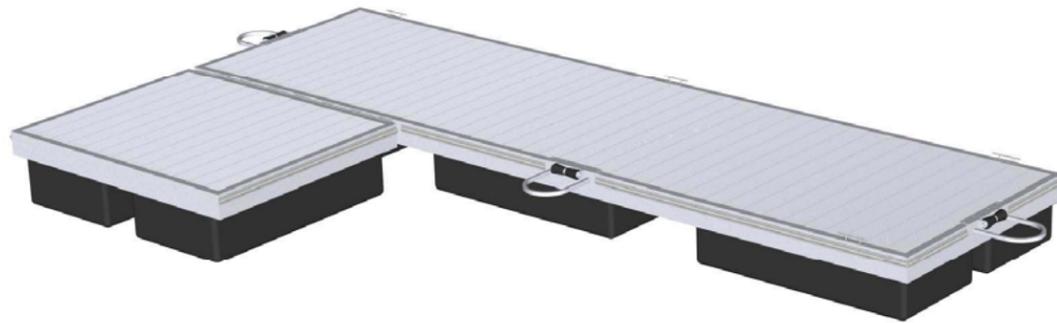
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BOARDWALK DETAILS

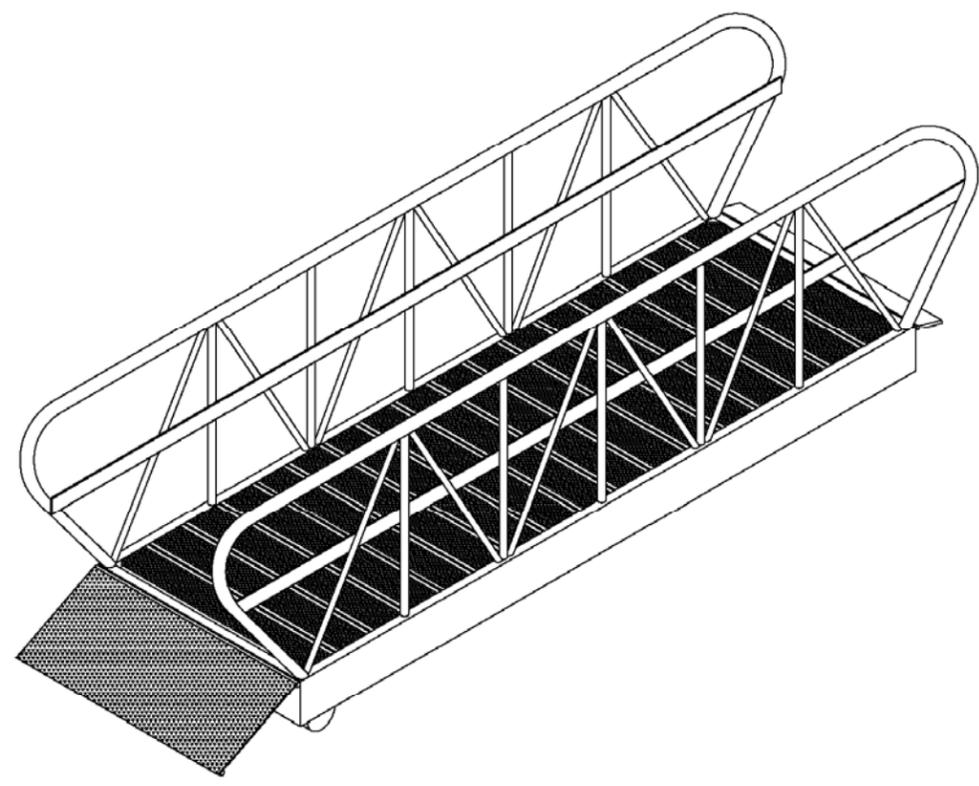
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**26' x 5' PRE-FABRICATED
FLOATING DOCK**



**20' x 4' ALUMINUM
GANGWAY**

NOTE:

1. Aluminum extrusion for dock and gangway structure shall be constructed from 6000, 6061, 6063 series aluminum with 6061-T6 for primary structural components and shall be extruded in accordance with applicable sections for Federal Specification QQ-A-200.
2. All fasteners shall be Stainless Steel type (Grade 316).
3. Floatation devices shall be rotationally molded, heavy wall polyethylene float drum, with ultraviolet light inhibitor, and shall be filled with modified polystyrene, expanded in place, to a minimum density of 1.0 to 1.2 lbs. /cu. ft.
4. Decking material shall be aluminum decking with non-slip surface.
5. Anchor the dock with steel pilings. Rollers used in pile guides shall be ultra high molecular weight polyethylene with black ultraviolet light inhibitor added.

**BOAT DOCK AND
GANGWAY DETAIL**

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