



US Army Corps  
of Engineers  
Alaska District

# Public Notice of Application for Permit

Juneau Field Office  
Regulatory Division (1145)  
CEPOA-RD  
8800 Glacier Highway, Suite 106  
Juneau, Alaska 99801-8079

**PUBLIC NOTICE DATE:** January 3, 2012  
**EXPIRATION DATE:** February 1, 2012  
**REFERENCE NUMBER:** POA-2011-924  
**WATERWAY:** Gastineau Channel

Interested parties are hereby notified that a Department of the Army permit application has been received for work in waters of the United States as described below and shown on the enclosed project drawings.

Comments on the described work, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact Randal Vigil at (907) 790-4491 or by email at Randal.P.Vigil@usace.army.mil if further information is desired concerning this notice.

**APPLICANT:** City and Borough of Juneau, Docks and Harbors Department, 155 South Seward Street, Juneau, Alaska 99801.

**AGENT:** PND Engineers, Inc., 9360 Glacier Highway, Suite 100, Juneau, Alaska 99801.

**LOCATION:** The project site is located within Section 23, T. 41 S., R. 67 E., Copper Meridian; USGS Quad Map Juneau B-2; Latitude 58.296° N., Longitude 134.402° W.; Alaska Tidelands Survey 3; at the Smokeries dock, the Alaska Steamship Wharf and the Cruise Ship Terminal, in Juneau, Alaska.

**PURPOSE:** The applicant's stated purpose is to expand the "Smokeries dock, and improve access, security, berthing capacity, and safety at the City and Borough of Juneau's Downtown Cruise Ship Docks."

**PROPOSED WORK:** The applicant requests authorization for the following work in waters and navigable waters of the United States: 1. Discharge approximately 200 cubic yards of fill material into approximately 0.049 acres below the high tide line (approximate elevation +20.8 feet above the 0.0 foot contour) to construction a retaining wall. 2. Construct below the Mean High Water mark (approximate elevation +15.4 feet above the 0.0 foot contour) (MHW) two offshore cruise ship berths. Refer to the below impact tables for details, including the removal of the existing South Ferry Dock, transfer bridge, and associated dolphins and catwalks. All work would be performed in accordance with the enclosed plan (sheets 1-14), dated August 2011.

**Phase 1 – Retaining Wall, Moorage Float, Taku Smokeries – Complete May 2013**

*Table 1 Demolition Plan*

<u>Structural Element</u>	<u>Size (+/- 10%)</u>	<u>Number of Piles</u>	<u>Pile Ø</u>
Transfer Bridge	2,600 SF	12(Steel)	12” – (8), 24” – (4)
South Ferry Dock	7,250 SF	120 (Timber)	12”
Dolphins and Catwalks	6 EA, 300 LF	22	varies

*Table 2 Retaining Wall, Moorage Float and Taku Smokeries Design Elements*

<u>Structural Element</u>	<u>Size (+/- 10%)</u>	<u>Number of Piles</u>	<u>Pile Ø</u>
Concrete Retaining Wall (Fill Quantities Below)	75 LF x 1’-3” wide	9	24”
New South Ferry Dock Replacement and Addition	11,000 SF	2; 34	16” ; 12.75”
Concrete Moorage Float	16’ x 250’	9	16”
Gangway	8’ x 120’	-	-
Taku Smokeries Work Deck Addition and Mooring Pile	1,000 SF	8	16”

*Table 3 Retaining Wall Fill Quantities*

<u>Material</u>	<u>Qty Below HTL</u>
Fill	200 CY
Base Course	20 CY
Rip Rap	50 CY
Excavation	0 CY
Total Area Impacted	0.049 AC (2,134.44 SF)

**Phase 2 – South Berth - Complete May 2014**

*Table 4 South Berth Design Elements*

<u>Structural Element</u>	<u>Size (+/- 10%)</u>	<u>Number of Piles</u>	<u>Pile Ø</u>
Approach Dock	7,000 SF	36	16”
Vehicle Transfer Bridge	140’ x 24’	8	16”
Bridge Support Float	25’ x 30’	-	-
Bridge Landing	50’ x 40’	-	-
Concrete Floating Dock	50’ x 400’	10	48”
Mooring and Breasting Dolphins and Catwalks	6 EA	27	48”

**Phase 3 – North Berth – Complete May 2015**

*Table 5 North Berth Design Elements*

<u>Structural Element</u>	<u>Size (+/- 10%)</u>	<u>Number of Piles</u>	<u>Pile Ø</u>
Approach Dock	4,200 SF	16	16”
Vehicle Transfer Bridge	140’ x 24’	8	16”
Bridge Support Float	25’ x 30’	-	-
Bridge Landing	50’ x 40’	-	-
Concrete Floating Dock	50’ x 300’	10	48”
Mooring and Breasting Dolphins and Catwalks	6 EA	24	48”

**ADDITIONAL INFORMATION:** The proposed project design is a combination of fixed and floating docks, both of which require steel piles to support or anchor these structures. The floating docks would be manufactured offsite, towed to the site and field installed. The overall in-water work would be significantly shortened by this

process. The primary type of pile that would be used at the site would be hollow steel pipe piles. The means of installation would vary with specific locations and would include rock anchors, pin piles, or rock sockets as necessary. The piles would be driven to bedrock or as deep into existing soils as necessary to resist the design loads. Rock anchor and pin pile installation would be similar in that a smaller diameter hole would be drilled into the bedrock underneath the pile, and an anchor rod or small diameter pin pile would be grouted into the hole. Then the annulus between the pile and the anchor rod or pin pile would be also grouted to transfer load between the pile and the anchor rod or pin pile. A rock socket consists of a hole drilled into bedrock. The structural pile would then be driven into the hole to provide a stable base and provide a higher level of uplift and lateral resistance. The means with which piles would be installed would need to be evaluated on a case-by-case basis. The applicant supports the use of vibratory pile driving equipment as the primary installation method for the project, impact hammers would only be allowed for piles that encounter soils too dense to penetrate with the vibratory equipment, however, bedrock conditions are anticipated.

**APPLICANT PROPOSED MITIGATION:** The applicant has made the following statements concerning mitigation measures to avoid, minimize, and compensate for impacts to waters of the United States from activities involving discharges of dredged or fill material.

**a. Avoidance:** "This project utilizes pile supported and floating structures to the maximum extent possible. One small concrete retaining wall is required along the upper elevation of an existing slope to replace two existing dilapidated timber walls. Inherently, impacts to the waters of the U.S. will occur by placing fill for the retaining wall. The project includes removing two existing timber retaining walls and replacing them with a concrete retaining wall."

**b. Minimization:** "The design has been optimized to minimize any impacts beyond what is required to construct the retaining wall associated with the CBU Downtown Cruise Ship Docks project. While the existing fill slope at the site varies from approximately 1:4 to 1:9 (H:V), the project design incorporates the use of a concrete retaining wall with a rip rap slope at the base of the wall designed at 1.5:1 to minimize fill quantities as much as practicable while still meeting the intended purpose and need."

**c. Compensatory Mitigation:** "Placement of fill and impacts to waters of the U.S. are minor, approximately 0.049 acres below the HTL. The purpose of the fill is to prevent erosion and provide slope stability, no additional mitigation measures are being proposed."

**WATER QUALITY CERTIFICATION:** A permit for the described work will not be issued until a certification or waiver of certification, as required under Section 401 of the Clean Water Act (Public Law 95-217), has been received from the Alaska Department of Environmental Conservation.

**CULTURAL RESOURCES:** The latest published version of the Alaska Heritage Resources Survey (AHRS) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There is an unevaluated property in the vicinity of the worksite. It has been designated **JUN-314**. There are also registered or eligible properties in the vicinity of the worksite. They have been designated **JUN-00376, JUN-00118, JUN-00374, JUN-00212, and JUN-00373**. Because these properties have been determined to be outside of the project area, we have determined that there would be no effect to historic properties. Consultation of the AHRS constitutes the extent of cultural resource investigations by the District Commander at this time. This application is being coordinated with SHPO. Any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

**ENDANGERED SPECIES:** The project area is within the known or historic range of the Humpback whale (*Megaptera novaeangliae*) and Steller sea lion (*Eumetopias jubatus*).

Preliminarily, we have determined the described activity would have no effect on any listed or proposed threatened or endangered species, and would have no effect on any designated or proposed critical habitat, under the Endangered Species Act of 1973 (87 Stat. 844). This application is being coordinated with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (NMFS). Any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

**ESSENTIAL FISH HABITAT:** The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

The project area is within the known range of the Chinook (*Oncorhynchus tshawytscha*), chum (*Oncorhynchus keta*), Coho (*Oncorhynchus kisutch*), pink (*Oncorhynchus gorbuscha*), and sockeye (*Oncorhynchus nerka*) salmon, and the following species of groundfish: Arrowtooth flounder (*Atheresthes stomias*), flathead sole (*Hippoglossoides elassodon*), rex sole (*Glyptocephalus zachirus*), rock sole (*Lepidopsetta polyxystra* and *L. bilineata*), Dover sole (*Microstomus pacificus*), dusky rockfish (*Sebastes ciliates*), Pacific cod (*Gadus macrocephalus*), Pacific ocean perch (*Sebastes alutus*), shortraker rockfish (*Sebastes borealis*), rougheye rockfish (*Sebastes aleutianus*), sablefish (*Anoplopoma fimbria*), skates (*Raja binoculata* and *R. rhina*), walleye Pollock (*Theragra chalcogramma*), yelloweye rockfish (*Sebastes ruberrimus*), and sculpins (*Cottidae spp.*).

Preliminarily, we have determined the described activity may adversely affect EFH in the project area for the following species: Chinook (*Oncorhynchus tshawytscha*), chum (*Oncorhynchus keta*), Coho (*Oncorhynchus kisutch*), pink (*Oncorhynchus gorbuscha*), and sockeye (*Oncorhynchus nerka*) salmon. The proposed project location is nearshore shallow water habitat primarily for adult and juvenile salmon migration, as these waters provide refuge from predators and opportunity to rest. The proposed project would extend a portion of the shoreline into deeper water and involve pile driving, which may increase salmon mortality, particularly juveniles, through predation. This Public Notice initiates EFH consultation with the NMFS. Any comments or recommendations they may have concerning EFH will be considered in our final assessment of the described work.

**TRIBAL CONSULTATION:** The Alaska District fully supports tribal self-governance and government-to-government relations between Federally recognized Tribes and the Federal government. Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Commander during the public comment period.

**PUBLIC HEARING:** Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity and

its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The outcome of the general balancing process would determine whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur. The decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Commander determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**AUTHORITY:** This permit will be issued or denied under the following authorities:

(X) Perform work in or affecting navigable waters of the United States - Section 10 Rivers and Harbors Act 1899 (33 U.S.C. 403).

(X) Discharge dredged or fill material into waters of the United States - Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

Project drawings and a Notice of Application for State Water Quality Certification are enclosed with this Public Notice.

District Commander  
U.S. Army, Corps of Engineers

Enclosures

SEAN PARNELL, GOVERNOR

# STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION  
DIVISION OF WATER  
401 Certification Program  
Non-Point Source Water Pollution Control Program

DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WQM/401 CERTIFICATION  
410 WILLOUGHBY AVENUE  
JUNEAU, ALASKA 99801-1795  
PHONE: (907) 465-5321/FAX: (907) 465-5274

NOTICE OF APPLICATION  
FOR  
STATE WATER QUALITY CERTIFICATION

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into navigable waters, in accordance with Section 401 of the Clean Water Act of 1977 (PL95-217), also must apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. By agreement between the U.S. Army Corps of Engineers and the Department of Environmental Conservation, application for a Department of the Army permit to discharge dredged or fill material into navigable waters under Section 404 of the Clean Water Act also may serve as application for State Water Quality Certification.

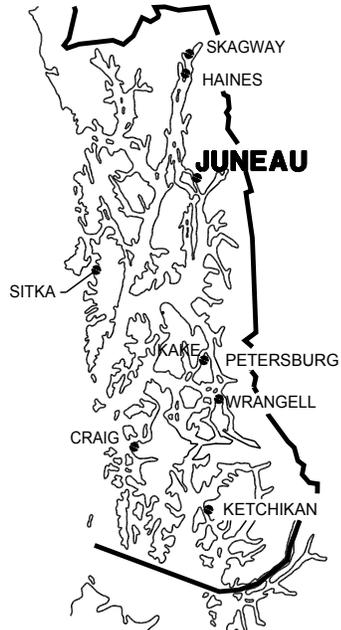
Notice is hereby given that the application for a Department of the Army Permit described in the Corps of Engineers' Public Notice No. POA-2011-294, Gastineau Channel, serves as application for State Water Quality Certification from the Department of Environmental Conservation.

After reviewing the application, the Department may certify there is reasonable assurance the activity, and any discharge that might result, will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. The Department also may deny or waive certification.

Any person desiring to comment on the project, with respect to Water Quality Certification, may submit written comments to the address above by the expiration date of the Corps of Engineer's Public Notice.



**LOCATION  
MAP**



**SOUTHEAST  
ALASKA**



**THIS  
PROJECT**

**VICINITY MAP**

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

DATUM:  
MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**VICINITY MAP  
LOCATION MAP**

APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

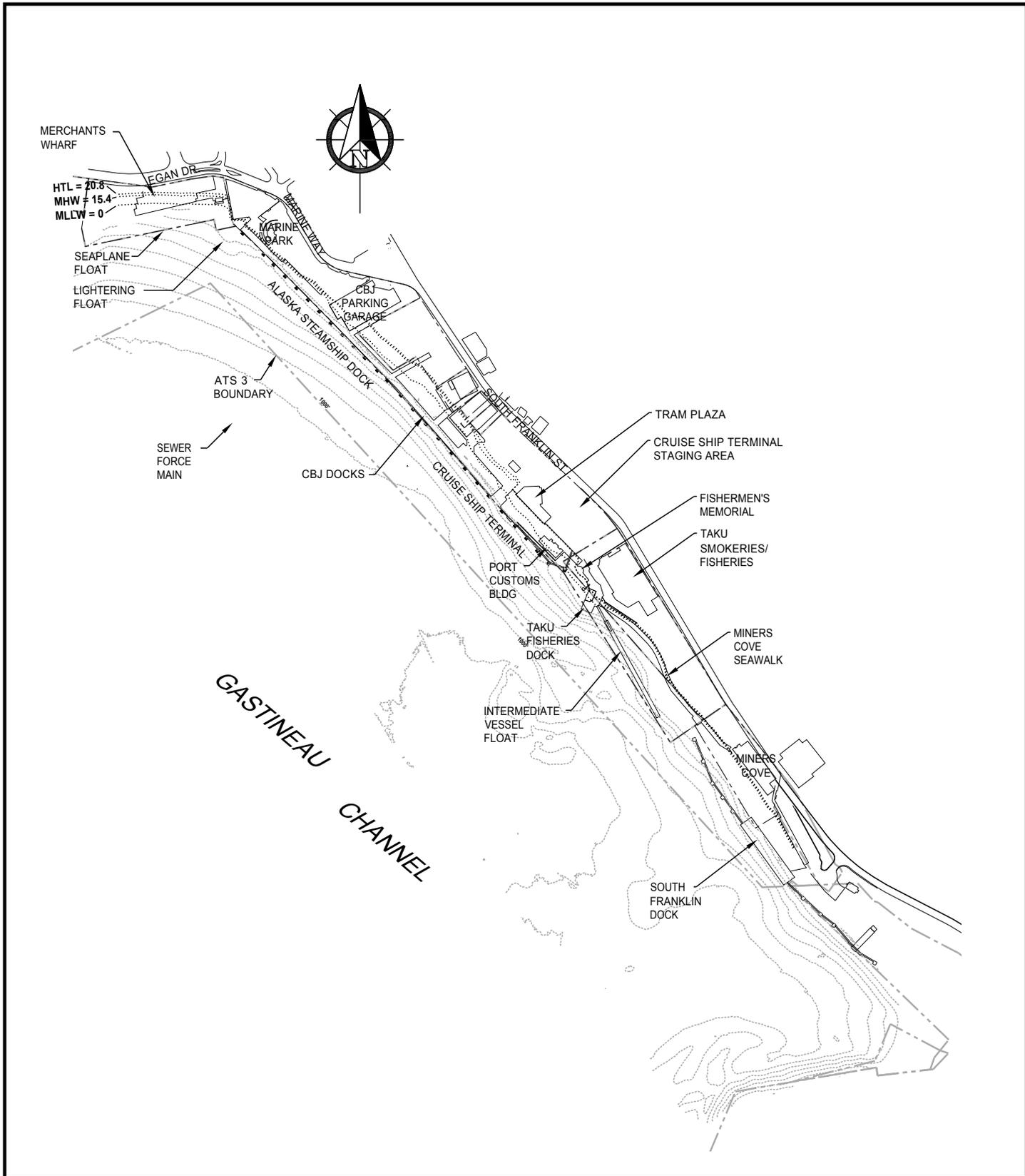
**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS

APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

SHEET 1 OF 14



**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**

MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**EXISTING CONDITIONS  
SITE PLAN**

SCALE IN FEET

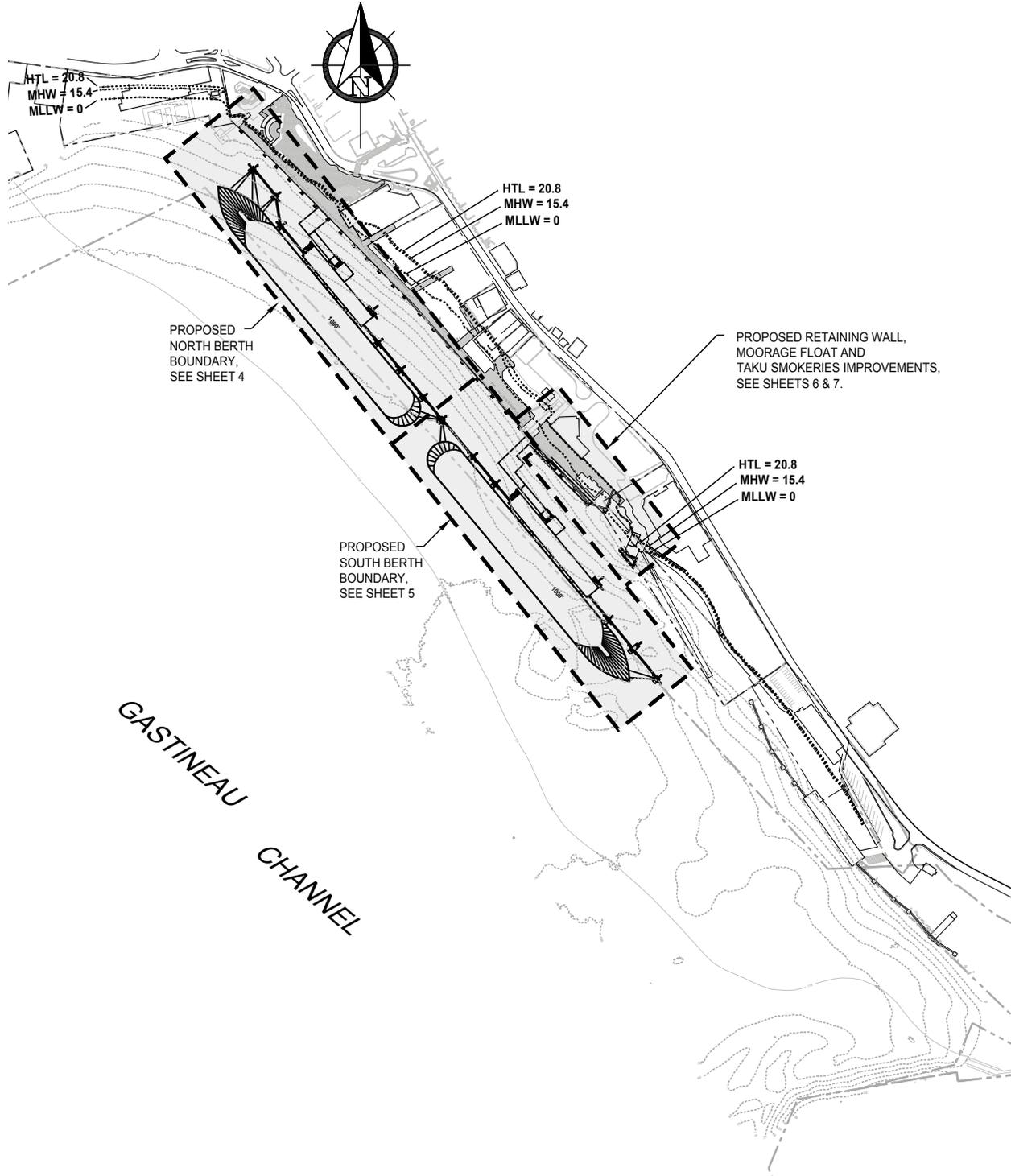


APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS  
APPLICATION BY: CITY AND BOROUGH OF JUNEAU  
DATE: AUGUST 2011



**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**  
MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**PROPOSED  
SITE PLAN**

SCALE IN FEET



APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

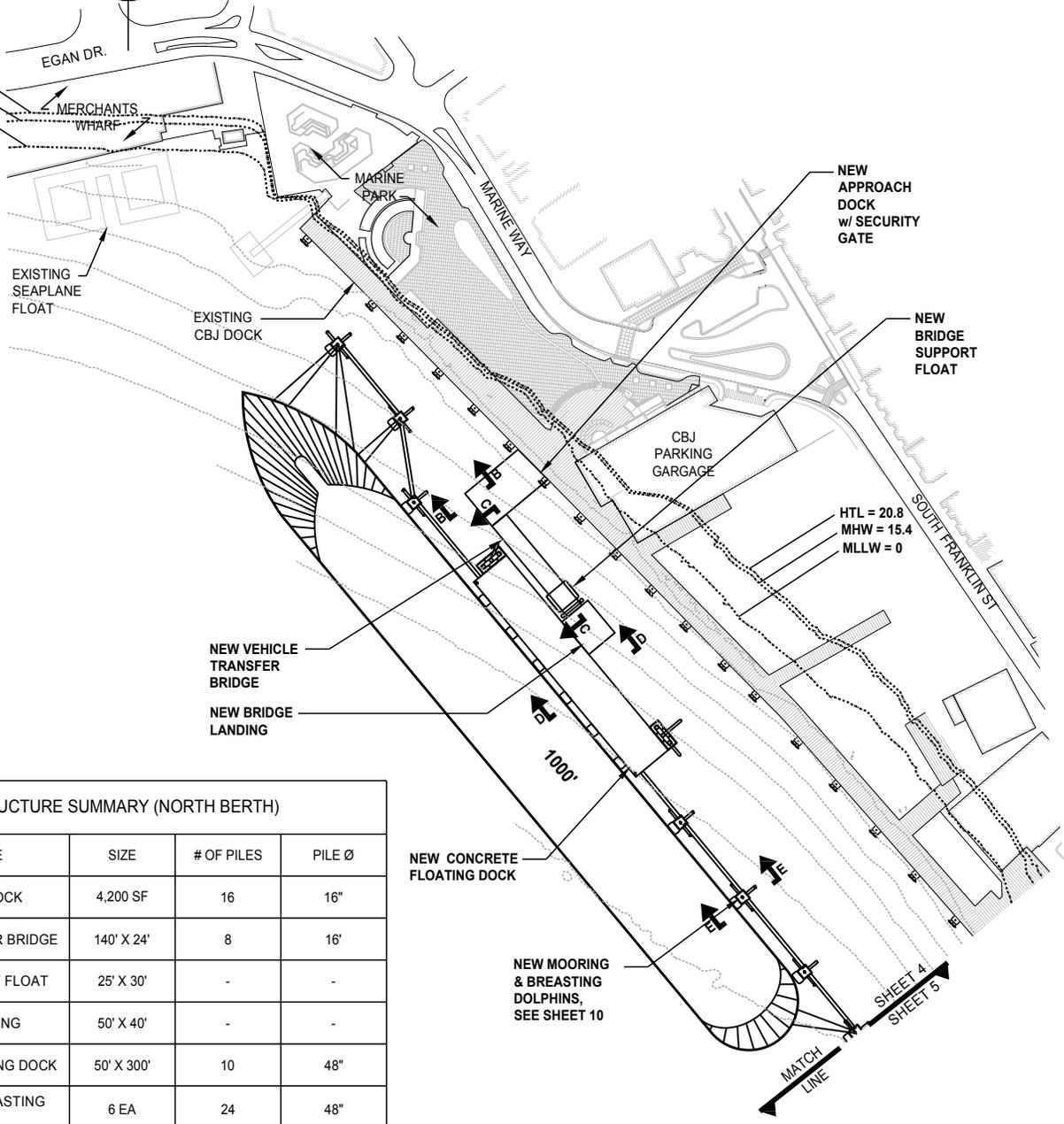
PND#: 102050.01

**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS  
APPLICATION BY: CITY AND BOROUGH OF JUNEAU  
DATE: AUGUST 2011



HTL = 20.8  
MHW = 15.4  
MLLW = 0



STRUCTURE SUMMARY (NORTH BERTH)

STRUCTURE	SIZE	# OF PILES	PILE Ø
APPROACH DOCK	4,200 SF	16	16"
VEHICLE TRANSFER BRIDGE	140' X 24'	8	16"
BRIDGE SUPPORT FLOAT	25' X 30'	-	-
BRIDGE LANDING	50' X 40'	-	-
CONCRETE FLOATING DOCK	50' X 300'	10	48"
MOORING & BREASTING DOLPHINS	6 EA	24	48"

**PURPOSE:**

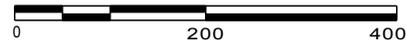
TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

DATUM:  
MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**NORTH BERTH  
PROPOSED SITE PLAN**

SCALE IN FEET



APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL

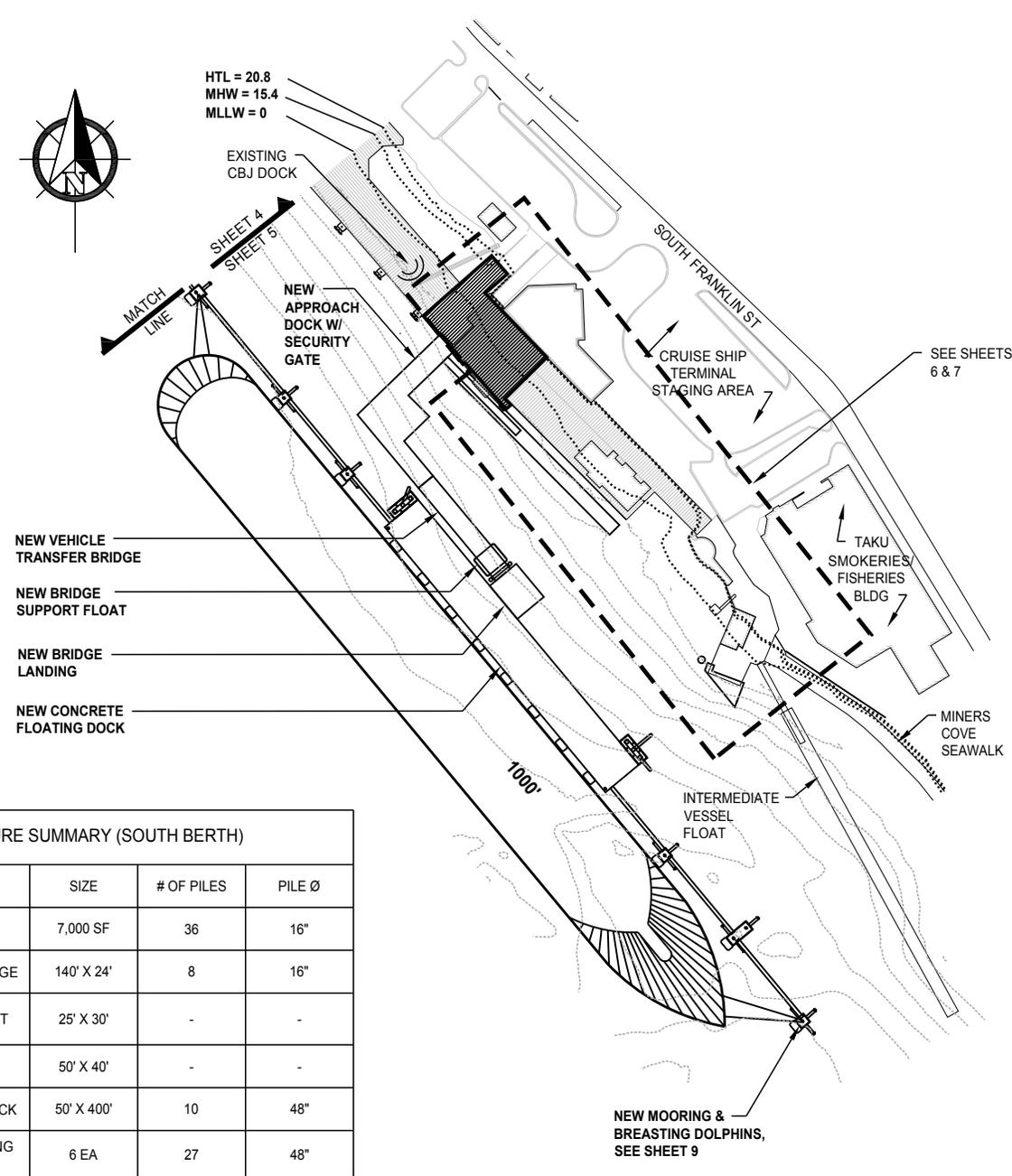
NEAR: JUNEAU

AT: DOWNTOWN CRUISE SHIP DOCKS

APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

SHEET 4 OF 14



STRUCTURE SUMMARY (SOUTH BERTH)

STRUCTURE	SIZE	# OF PILES	PILE Ø
APPROACH DOCK	7,000 SF	36	16"
VEHICLE TRANSFER BRIDGE	140' X 24'	8	16"
BRIDGE SUPPORT FLOAT	25' X 30'	-	-
BRIDGE LANDING	50' X 40'	-	-
CONCRETE FLOATING DOCK	50' X 400'	10	48"
MOORING AND BREASTING DOLPHINS	6 EA	27	48"

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

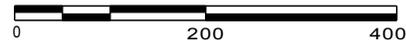
**DATUM:**

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HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**SOUTH BERTH  
PROPOSED SITE PLAN**

SCALE IN FEET



APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL

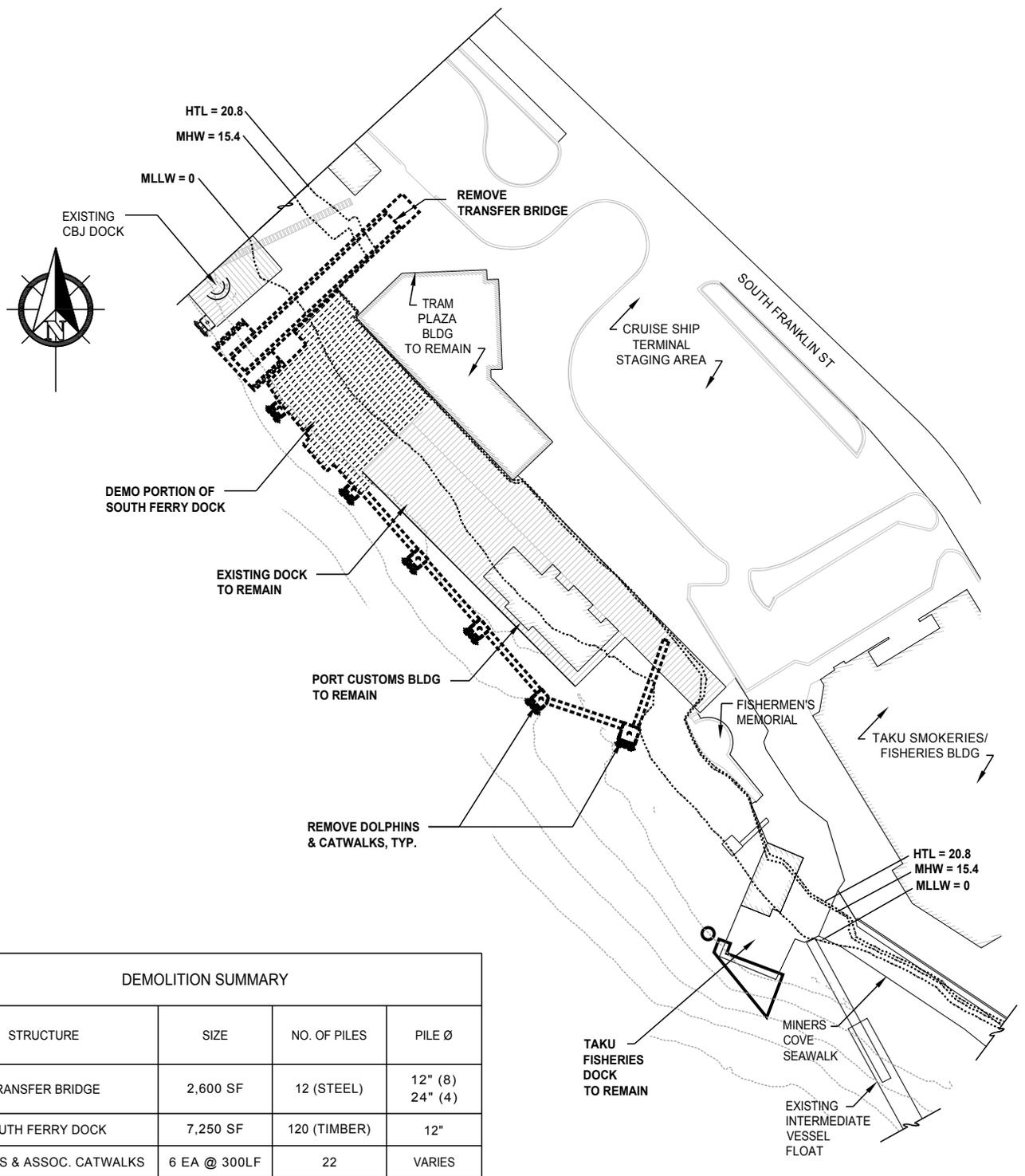
NEAR: JUNEAU

AT: DOWNTOWN CRUISE SHIP DOCKS

APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

SHEET 5 OF 14



DEMOLITION SUMMARY

STRUCTURE	SIZE	NO. OF PILES	PILE Ø
TRANSFER BRIDGE	2,600 SF	12 (STEEL)	12" (8) 24" (4)
SOUTH FERRY DOCK	7,250 SF	120 (TIMBER)	12"
DOLPHINS & ASSOC. CATWALKS	6 EA @ 300LF	22	VARIES

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

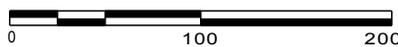
**DATUM:**

MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**TRANSFER BRIDGE  
PROPOSED DEMOLITION PLAN**

SCALE IN FEET



APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
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JUNEAU, AK 99801

PND#: 102050.01

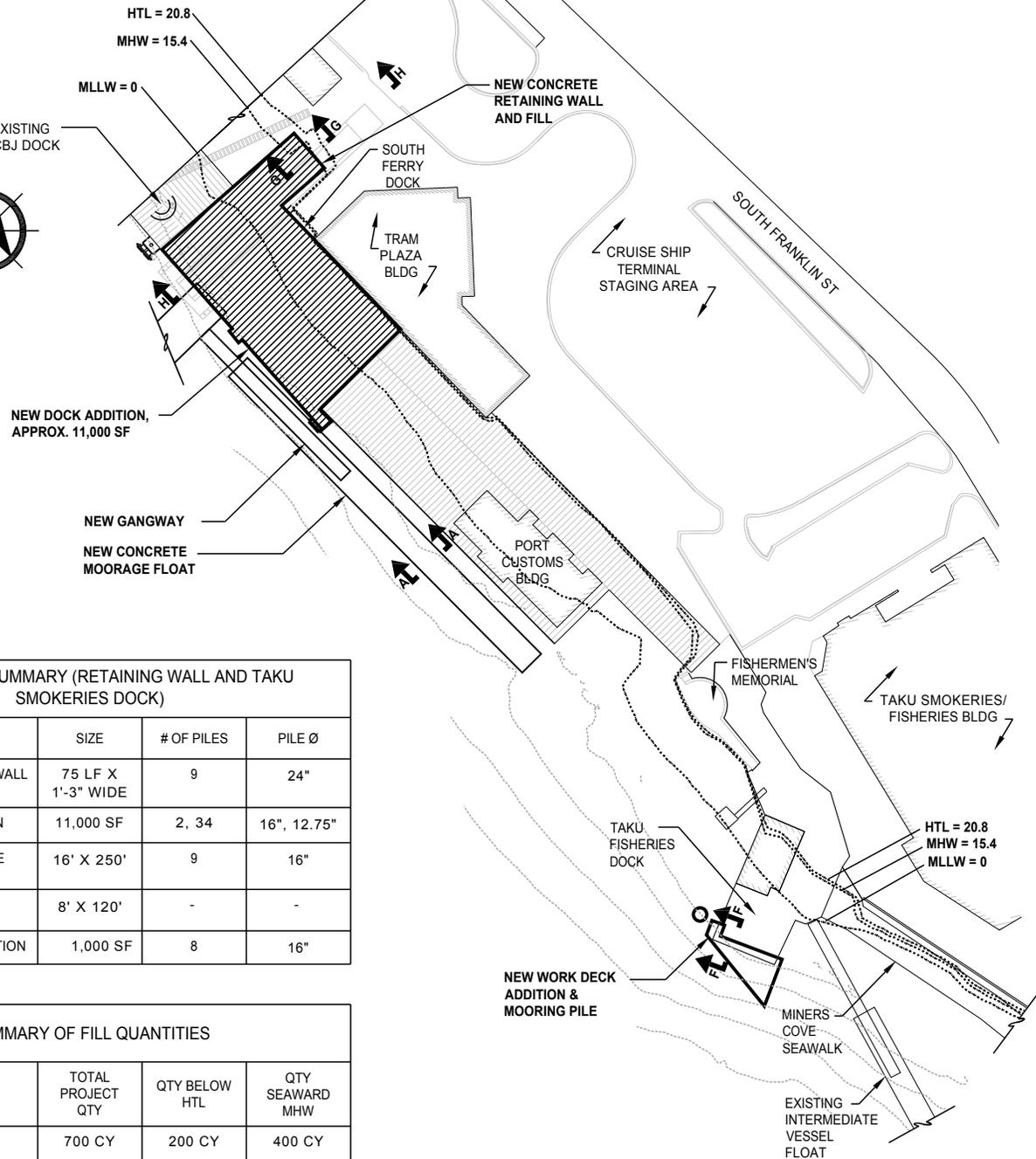
**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS

APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

SHEET 6 OF 14



**STRUCTURE SUMMARY (RETAINING WALL AND TAKU SMOKERIES DOCK)**

STRUCTURE	SIZE	# OF PILES	PILE Ø
CONCRETE RETAINING WALL AND FILL	75 LF X 1'-3" WIDE	9	24"
NEW DOCK ADDITION	11,000 SF	2, 34	16", 12.75"
CONCRETE MOORAGE FLOAT	16' X 250'	9	16"
GANGWAY	8' X 120'	-	-
NEW WORK DECK ADDITION	1,000 SF	8	16"

**SUMMARY OF FILL QUANTITIES**

MATERIAL	TOTAL PROJECT QTY	QTY BELOW HTL	QTY SEAWARD MHW
FILL	700 CY	200 CY	400 CY
BASE COURSE	20 CY	20 CY	20 CY
RIP RAP	50 CY	50 CY	50 CY
EXCAVATION	100 CY	0 CY	0 CY

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**

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HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**TRANSFER BRIDGE  
PROPOSED SITE PLAN**

SCALE IN FEET

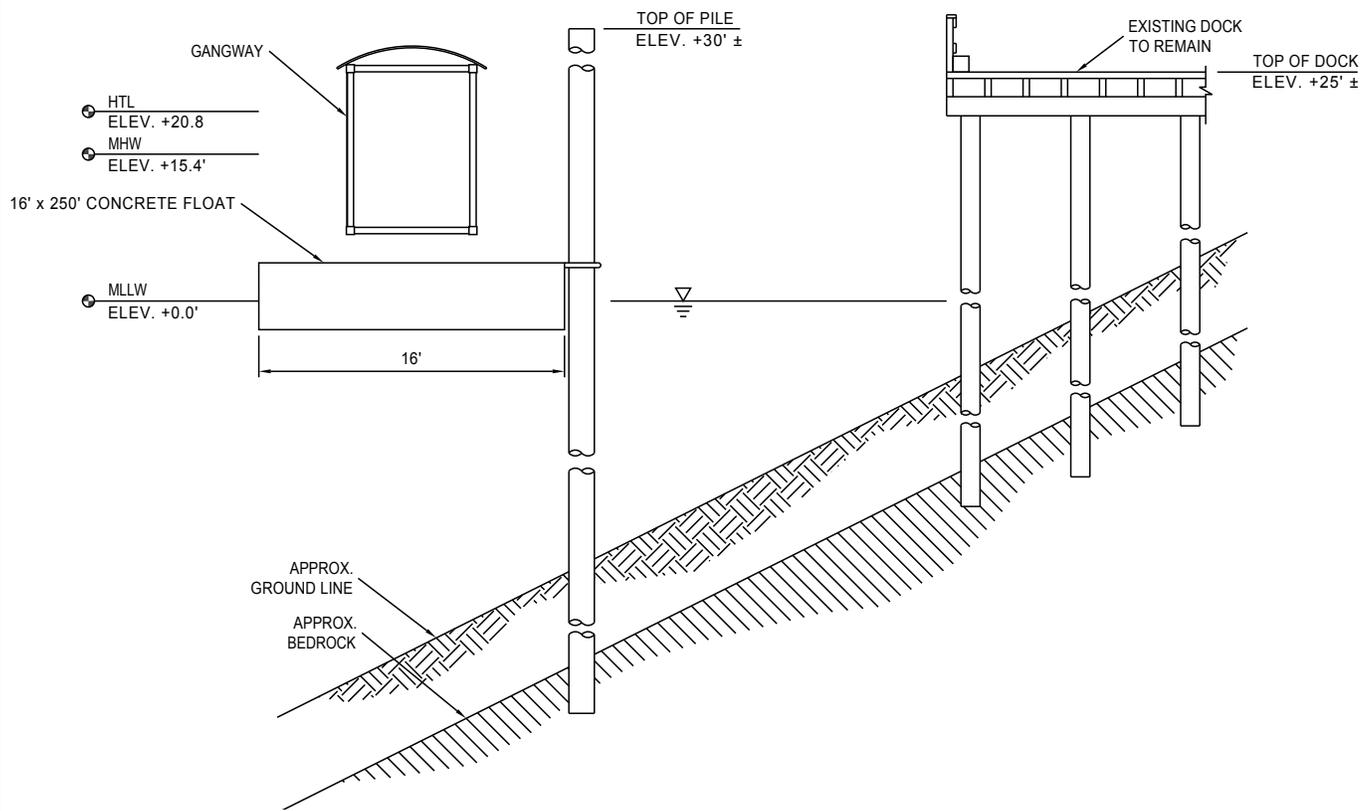


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**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
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APPLICATION BY: CITY AND BOROUGH OF JUNEAU  
DATE: AUGUST 2011



**SECTION A-A**

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**  
 MLLW = 0.0 FT

HTL = 20.8'  
 MHW = 15.4'  
 MLLW = 0.0'

**SECTIONS**

APPLICANT ADDRESS:  
 CITY AND BOROUGH OF JUNEAU  
 DOCKS & HARBOR DEPT.  
 155 S. SEWARD STREET  
 JUNEAU, AK 99801

PND#: 102050.01

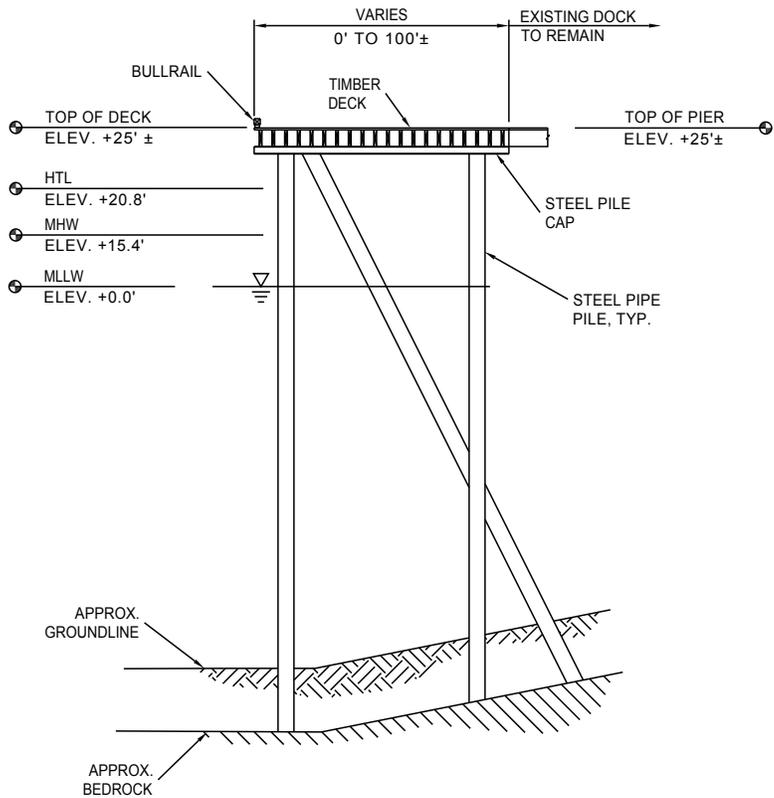
**CBJ DOWNTOWN  
 CRUISE SHIP DOCKS  
 RECONFIGURATION**

IN: GASTINEAU CHANNEL  
 NEAR: JUNEAU  
 AT: DOWNTOWN CRUISE SHIP DOCKS

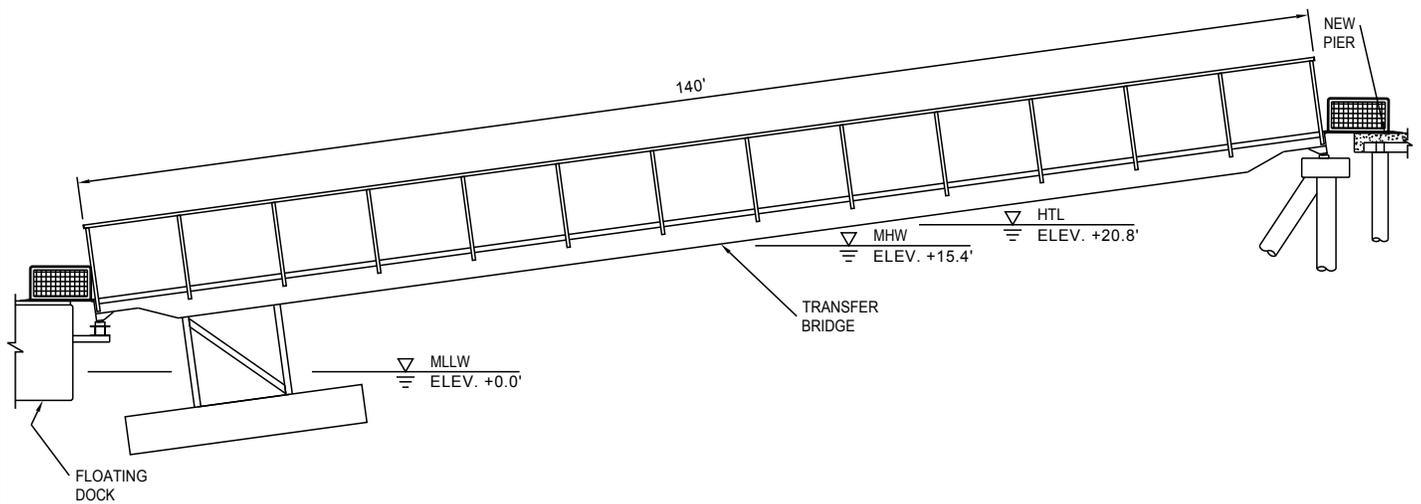
APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

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**SECTION B-B**



**SECTION C-C**

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**

MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**SECTIONS**

APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

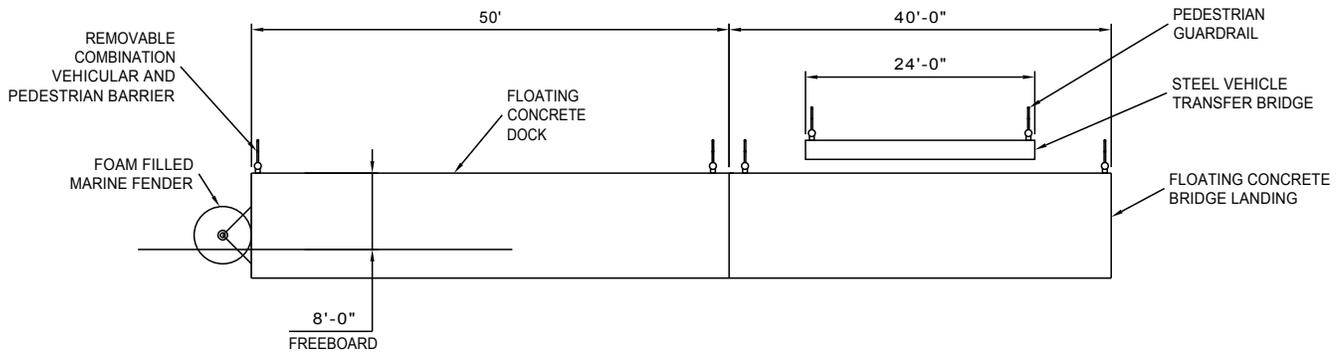
**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS

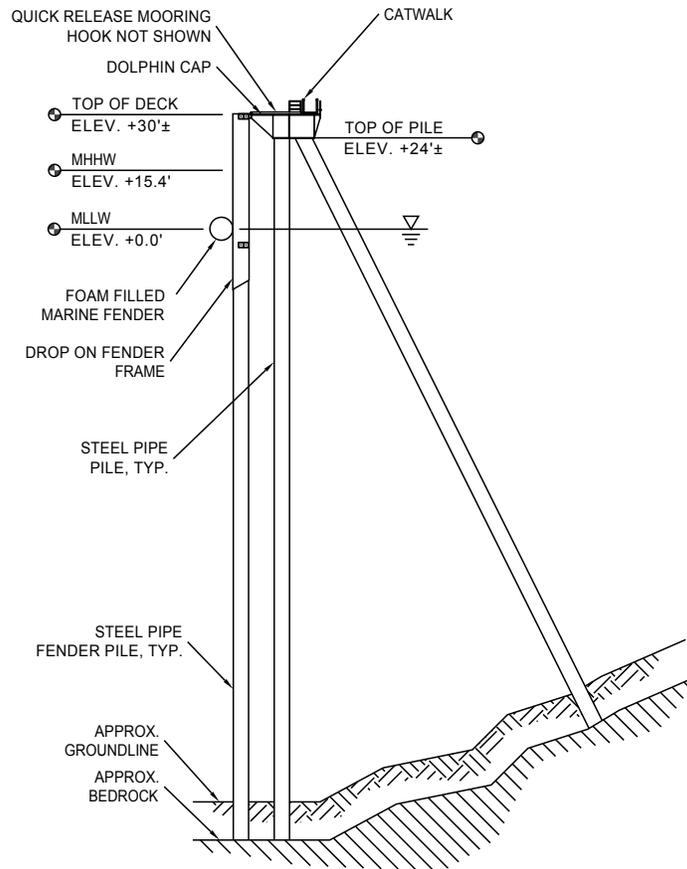
APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

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**SECTION D-D**



**SECTION E-E**

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**  
 MLLW = 0.0 FT

HTL = 20.8'  
 MHW = 15.4'  
 MLLW = 0.0'

**SECTIONS**

APPLICANT ADDRESS:  
 CITY AND BOROUGH OF JUNEAU  
 DOCKS & HARBOR DEPT.  
 155 S. SEWARD STREET  
 JUNEAU, AK 99801

PND#: 102050.01

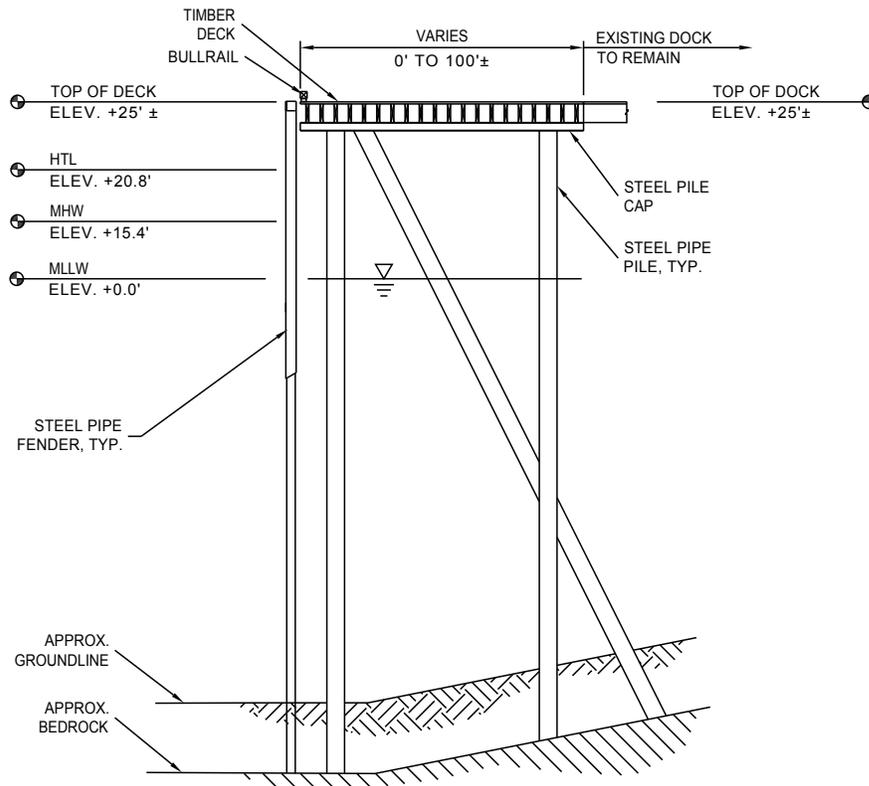
**CBJ DOWNTOWN  
 CRUISE SHIP DOCKS  
 RECONFIGURATION**

IN: GASTINEAU CHANNEL  
 NEAR: JUNEAU  
 AT: DOWNTOWN CRUISE SHIP DOCKS

APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

SHEET 10 OF 14



SECTION F-F

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**

MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**SECTIONS**

APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

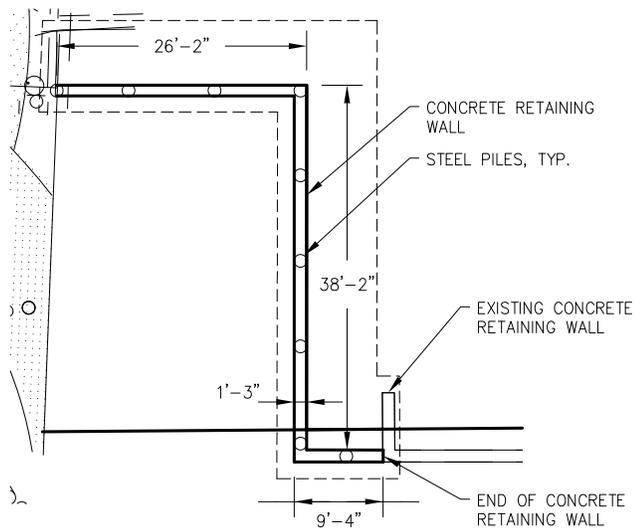
**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS

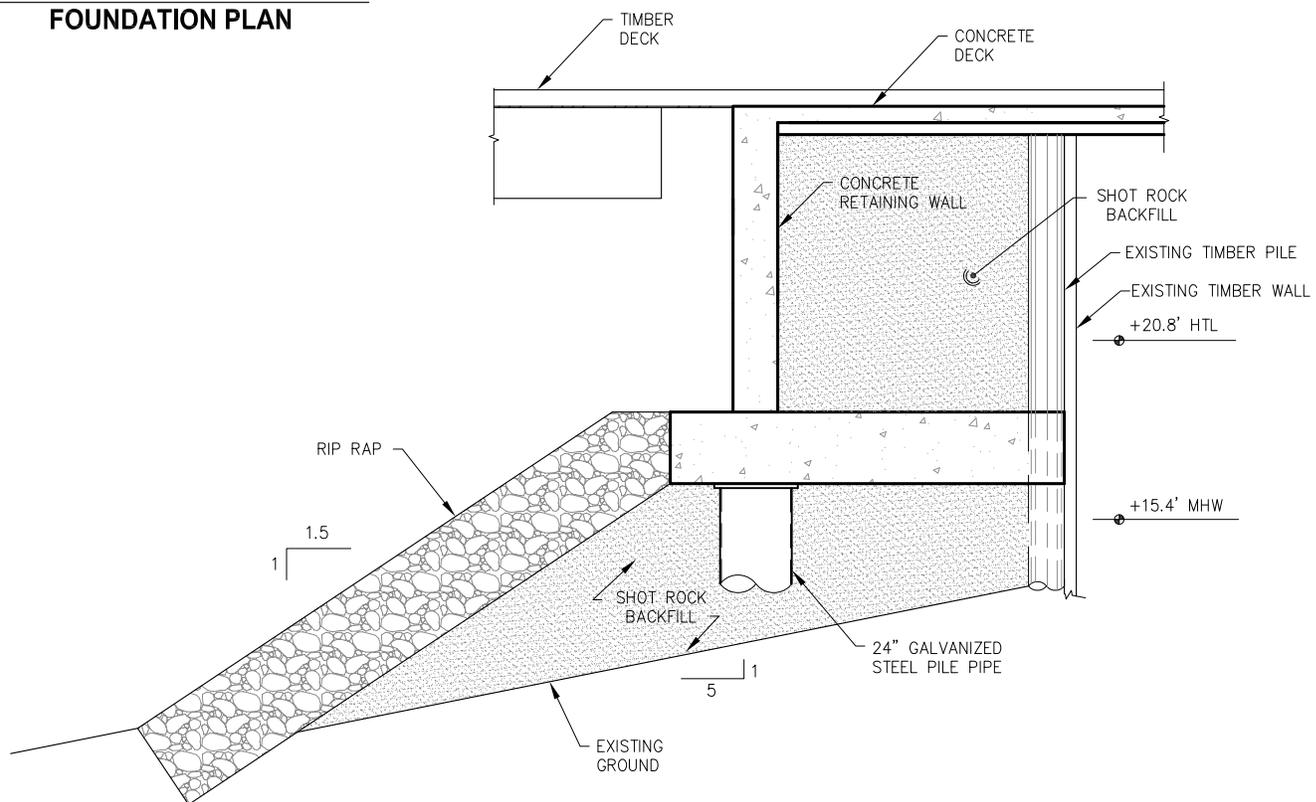
APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

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**RETAINING WALL  
FOUNDATION PLAN**



**SECTION G-G**

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**

MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**SECTION AT TIMBER WALL**

**NTS**

**APPLICANT ADDRESS:**  
CITY AND BOROUGH OF JUNEAU  
DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

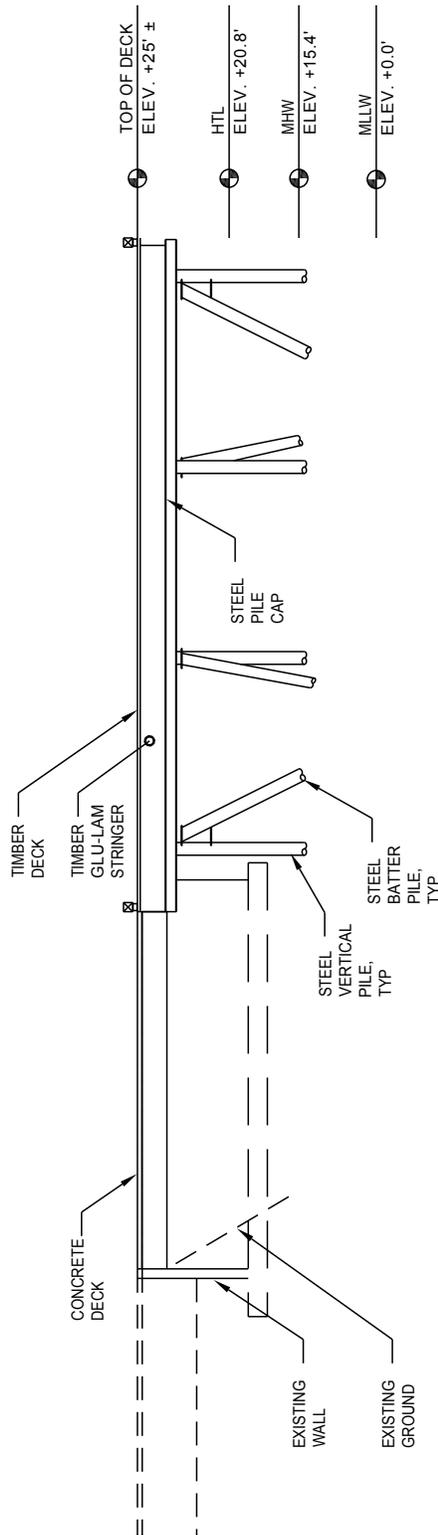
**CBJ DOWNTOWN  
CRUISE SHIP DOCKS  
RECONFIGURATION**

**IN:** GASTINEAU CHANNEL  
**NEAR:** JUNEAU  
**AT:** DOWNTOWN CRUISE SHIP DOCKS

**APPLICATION BY:** CITY AND BOROUGH OF JUNEAU

**DATE:** AUGUST 2011

SHEET 12 OF 14



**SECTION H-H**

**PURPOSE:**

TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**

MLLW = 0.0 FT

HTL = 20.8'  
MHW = 15.4'  
MLLW = 0.0'

**PORT CUSTOMS DOCK SECTION**

APPLICANT ADDRESS:  
CITY AND BOROUGH OF JUNEAU DOCKS & HARBOR DEPT.  
155 S. SEWARD STREET  
JUNEAU, AK 99801

PND#: 102050.01

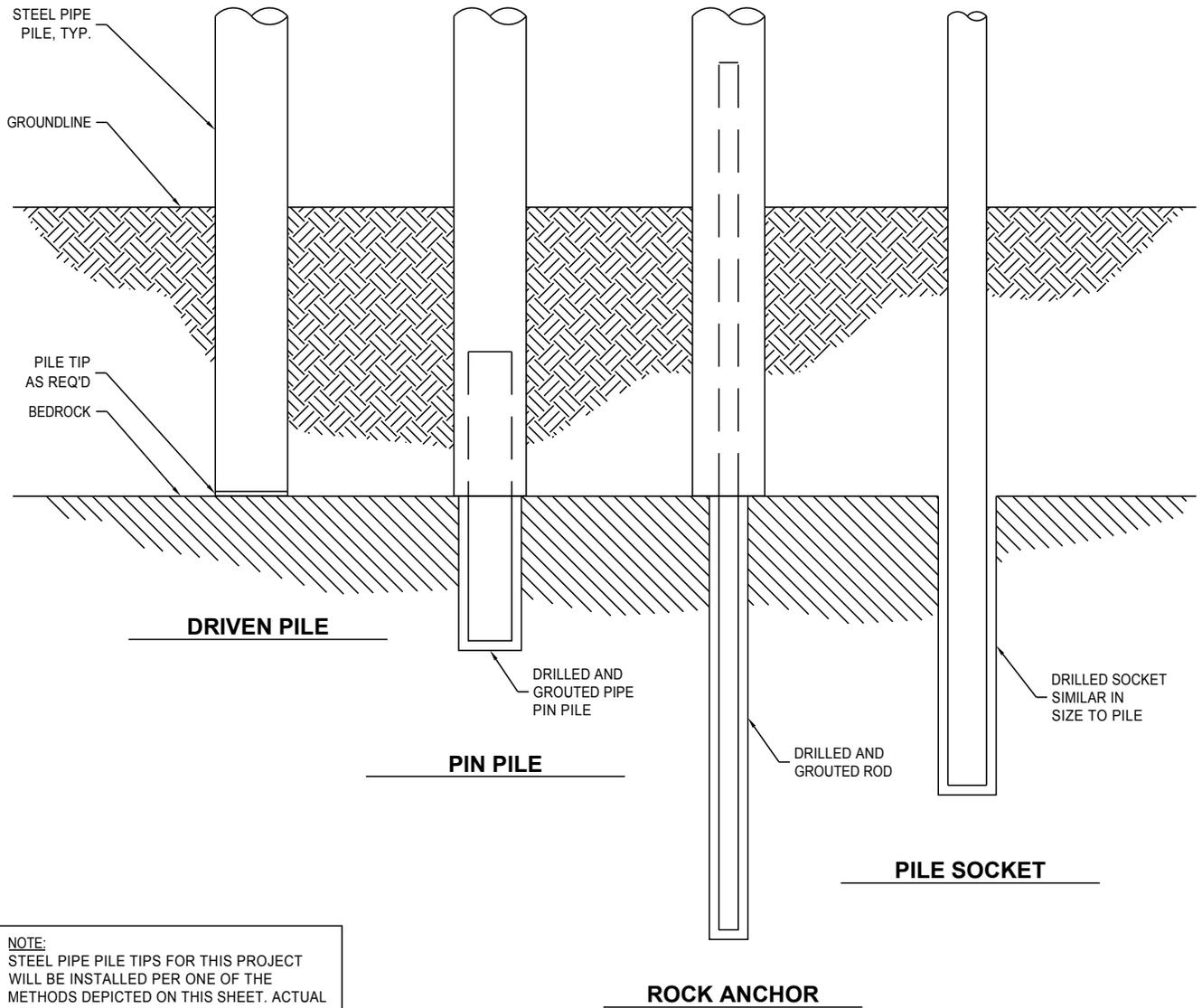
**CBJ DOWNTOWN CRUISE SHIP DOCKS RECONFIGURATION**

IN: GASTINEAU CHANNEL  
NEAR: JUNEAU  
AT: DOWNTOWN CRUISE SHIP DOCKS

APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

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**NOTE:**  
 STEEL PIPE PILE TIPS FOR THIS PROJECT WILL BE INSTALLED PER ONE OF THE METHODS DEPICTED ON THIS SHEET. ACTUAL METHOD TO BE DETERMINED AS SUBSURFACE CONDITIONS BECOME KNOWN. ALL PILES DRIVEN TO IMPACT HAMMER REFUSAL

**PURPOSE:**  
 TO IMPROVE ACCESS, SECURITY, BERTHING CAPACITY AND SAFETY AT THE CBJ DOWNTOWN CRUISE SHIP DOCKS.

**DATUM:**  
 MLLW = 0.0 FT

HTL = 20.8'  
 MHW = 15.4'  
 MLLW = 0.0'

**PILE DETAILS**

APPLICANT ADDRESS:  
 CITY AND BOROUGH OF JUNEAU  
 DOCKS & HARBOR DEPT.  
 155 S. SEWARD STREET  
 JUNEAU, AK 99801

PND#: 102050.01

**CBJ DOWNTOWN CRUISE SHIP DOCKS RECONFIGURATION**

IN: GASTINEAU CHANNEL  
 NEAR: JUNEAU  
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APPLICATION BY: CITY AND BOROUGH OF JUNEAU

DATE: AUGUST 2011

SHEET 14 OF 14