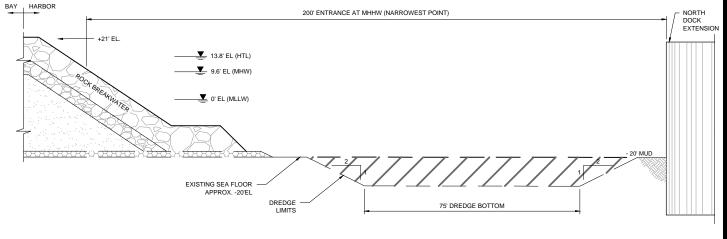


# A TYPICAL ROCK BREAKWATER SECTIONS DEPTHS REFERENCED TO MLLW NTS



B ENTRANCE CHANNEL SECTION
DEPTHS REFERENCED TO MLLW NTS

POA - 1980 - 468

#### CITY OF SEWARD

SEWARD MARINE INDUSTRIAL CENTER IMPROVEMENTS - SEWARD, ALASKA

WATERBODY: RESURRECTION BAY

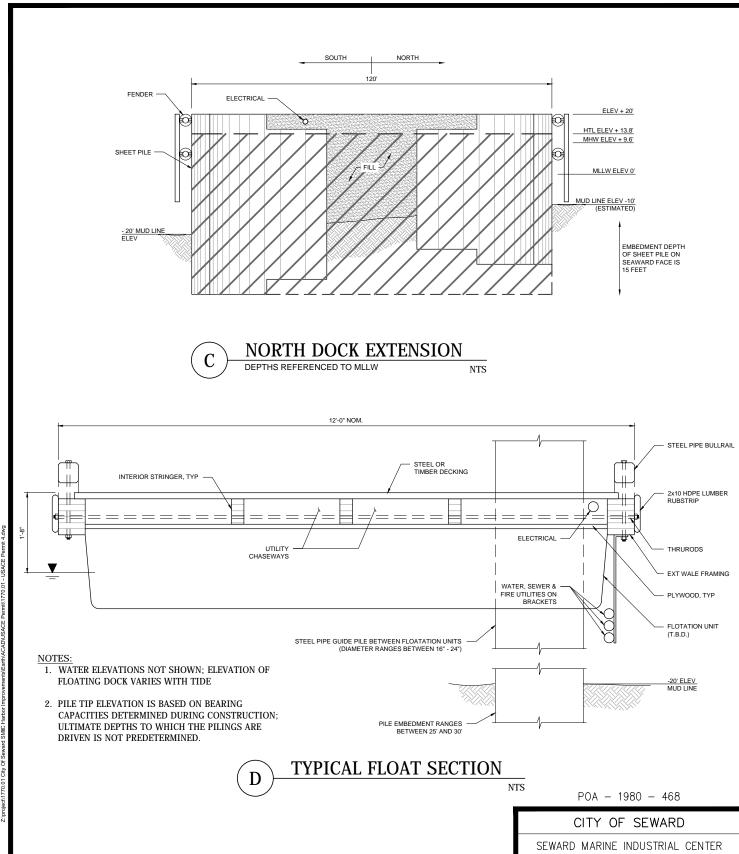
T1S, R1E, SEC 18/T1S, R1W, SEC 13 SEWARD MERIDIAN USGS QUADRANGLE SEWARD A-7 SE

SECTIONS A & B

FEBRUARY 2014

FIGURE 3 OF 10

JURISDICTIONAL FILL/DREDGE



JURISDICTIONAL FILL/DREDGE

IMPROVEMENTS - SEWARD, ALASKA

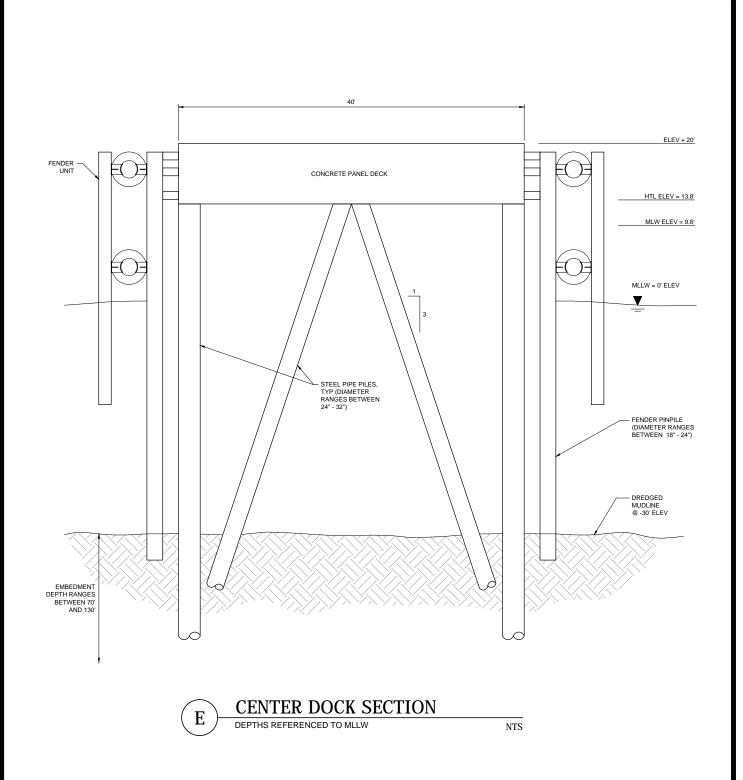
WATERBODY: RESURRECTION BAY

T1S, R1E, SEC 18/T1S, R1W, SEC 13 SEWARD MERIDIAN USGS QUADRANGLE SEWARD A-7 SE

SECTIONS C & D

FEBRUARY 2014

FIGURE 4 OF 10



#### POA - 1980 - 468

#### CITY OF SEWARD

SEWARD MARINE INDUSTRIAL CENTER IMPROVEMENTS — SEWARD, ALASKA

WATERBODY: RESURRECTION BAY

T1S, R1E, SEC 18/T1S, R1W, SEC 13 SEWARD MERIDIAN USGS QUADRANGLE SEWARD A-7 SE

SECTION E

FEBRUARY 2014

FIGURE 5 OF 10

### NOTE:

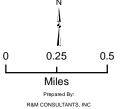
1. EMBEDMENT DEPTH WILL BE DETERMINED DURING CONSTRUCTION BASED ON THE ULTIMATE TOTAL CAPACITIES THAT ARE ACHIEVED DURING PILE DRIVING/TESTING. BASED ON GEOLOGICAL INVESTIGATIONS AND PRELIMINARY CALCULATIONS, THE ANTICIPATED EMBEDMENT DEPTH IS 70' FOR THE TRESTLE PILES TO 130' FOR THE PILES AT THE END OF THE DOCK.

Z:\\_GIS\Project\1770.01 City of Seward SMIC Harbor Improvements\mxd\Disposal Areas.mxd Saved 1/21/2014 5:54:52 PM by lboggess

Proposed Disposal Site

Existing ARRC Disposal Site

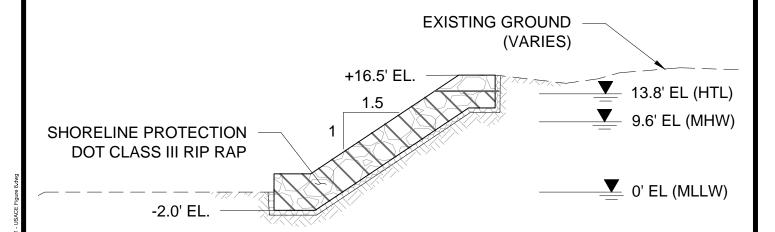
Existing USACE Disposal Site



# SEWARD MARINE INDUSTRIAL CENTER IMPROVEMENTS - SEWARD, ALASKA

PROPOSED AND EXISTING DEEP WATER DISPOSAL SITES POA-1980-468 WATERBODY: RESURRECTION BAY

4.00.000	DESIGNED LB	DRAWN LB	FIGURE 7 OF 10
	CHECKED	Jan 2014	







JURISDICTIONAL FILL/DREDGE

POA-1980-468-M13
City of Seward
Seward Marine Industrial Center
Improvements - Seward, AK
Resurrection Bay
T1S, R1E, SEC 18/T1S, R1W, SEC 13
Seward Meridian

POA - 1980 - 468

#### CITY OF SEWARD

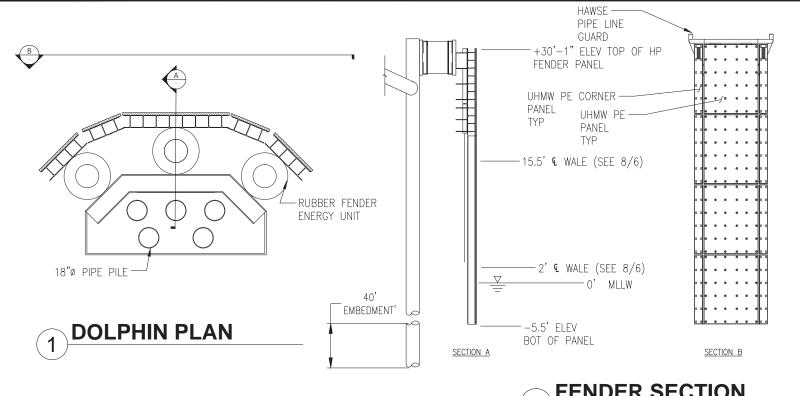
SEWARD MARINE INDUSTRIAL CENTER IMPROVEMENTS - SEWARD, ALASKA

WATERBODY: RESURRECTION BAY

T1S, R1E, SEC 18/T1S, R1W, SEC 13 SEWARD MERIDIAN USGS QUADRANGLE SEWARD A-7 SE

SECTION F

FEBRUARY 2014 FIGURE 8 OF 10



**FENDER SECTION** 

## **ADDITIVE ALTERNATE A**

NOTES:

- 1. CONTRACTOR SHALL VERIFY PIPE PILE LOCATIONS PRIOR TO FABRICATION OR PREPERATION OF SHOP
- 2. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION A-35 UNLESS NOTED OTHERWISE.
- 3. ALL IRON AND STELL MATERIALS EXCEPT BOLLARDS, SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- 4. RUBBER SHEAR FENDER SHALL BE CONSTRUCTED OF NEOPRENE RUBBER OR EQUAL, UNLESS NOTED OTHERWISE.
- 5. DESIGN CRITERIA DESIGN ENERGY FENDER CAPACITY 5.5 FT-KIPS
- 6. DESIGN VESSEL DISPACEMENT TONNAGE 3,000 LTT. ANGLE OF APPROACH 10° BERTHING VELOCITY (PERP TO DOCK) 0.3 FPS

7. SEE SPECIFICATIONS

POA-1980-468-M13 City of Seward Seward Marine Industrial Center Improvements - Seward, AK Resurrection Bay T1S, R1E, SEC 18/T1S, R1W, SEC 13 Seward Meridian



**EWARD** 



FEBRUARY 2014 PRELIMINARY 1871.01 TURNING DOLPHIN

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