PROJECT LOCATION

AS - BUILT

project engineer: BRUCE E. WOOD
contractor: SOUTH COAST, INC.
begin date: November 22, 1994
end date: November 15, 1995

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND
PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN AND CONSTRUCTION DIVISION

PETERSBURG, ALASKA

PETERSBURG SEAPLANE FACILITY
A.I.P. No. 3-02-0304-01
PROJECT No. 70641

INDEX OF SHEETS

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TITLE SHEET</td>
</tr>
<tr>
<td>2</td>
<td>ESTIMATE OF QUANTITIES</td>
</tr>
<tr>
<td>3</td>
<td>FLOAT LAYOUT PLAN</td>
</tr>
<tr>
<td>4</td>
<td>PLAN &amp; PROFILE FOR ACCESS ROAD</td>
</tr>
<tr>
<td>5</td>
<td>ROADWAY TYPICAL SECTIONS</td>
</tr>
<tr>
<td>6</td>
<td>DREDGING TYPICAL SECTIONS</td>
</tr>
<tr>
<td>7</td>
<td>RETAINING WALL DETAILS</td>
</tr>
<tr>
<td>8-12</td>
<td>GANWAY DETAILS</td>
</tr>
<tr>
<td>13-15</td>
<td>APPROACH/TURNAROUND FLOAT DETAILS</td>
</tr>
<tr>
<td>16-18</td>
<td>SEAPLANE FLOAT DETAILS</td>
</tr>
<tr>
<td>19</td>
<td>10' WIDE TIMBER FLOAT</td>
</tr>
<tr>
<td>20-24</td>
<td>RAMP SEAPLANE FLOAT DETAILS</td>
</tr>
<tr>
<td>25</td>
<td>FLOAT CONNECTION DETAILS</td>
</tr>
<tr>
<td>26</td>
<td>HINGE WELDMENT DETAILS</td>
</tr>
<tr>
<td>27</td>
<td>TRANSITION PLATE DETAILS</td>
</tr>
<tr>
<td>28</td>
<td>PILE COLLAR DETAILS</td>
</tr>
<tr>
<td>29-30</td>
<td>WIND CONE &amp; SIGN DETAILS</td>
</tr>
<tr>
<td>31</td>
<td>SIGN MOUNTING DETAILS</td>
</tr>
<tr>
<td>32</td>
<td>DOLPHIN DETAILS</td>
</tr>
<tr>
<td>33</td>
<td>PIPE HANDRAIL DETAILS</td>
</tr>
<tr>
<td>34</td>
<td>MISCELLANEOUS DETAILS</td>
</tr>
<tr>
<td>35</td>
<td>FIRE EXTINGUISHER &amp; CONTAINER</td>
</tr>
<tr>
<td>36</td>
<td>TRAFFIC CONTROL PLAN</td>
</tr>
<tr>
<td>37</td>
<td>LUMINAIRE SUPPORT DETAILS</td>
</tr>
<tr>
<td>38</td>
<td>EXIST. FLOAT REMOVAL &amp; DISPOSAL SITE</td>
</tr>
<tr>
<td>39</td>
<td>DWG. E1-LEGEND, FIXTURE SCHO., PANEL SCH.</td>
</tr>
<tr>
<td>40</td>
<td>DWG. E2-FLOAT POWER PLAN</td>
</tr>
<tr>
<td>41</td>
<td>DWG. E3-FLOAT LIGHTING PLAN</td>
</tr>
<tr>
<td>42</td>
<td>DWG. E4-DETAILS</td>
</tr>
</tbody>
</table>

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
A-1, C-01, D, E-02, 01, C-03, 01, G-04, 04, G-27, 05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND
PUBLIC FACILITIES
SOUTHEAST REGION DESIGN SECTION

APPROVED
Project Production Engineer
Date

APPROVED
Chief, Design & Construction
Date

PROJECT NUMBER:
70641

DATE:
AUGUST, 1994

SHEET 1 OF 42
# ESTIMATE OF QUANTITIES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Pay Item</th>
<th>Pay Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 (1)</td>
<td>Mobilization and Demobilization</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>112 (1)</td>
<td>Construction Surveying by the Contractor</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>120 (1)</td>
<td>Site Adjustment</td>
<td>C.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>122 (1)</td>
<td>Temporary Erosion &amp; Pollution Control</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>195 (4)</td>
<td>Removel of Concrete, C.O. #5</td>
<td>L.S.</td>
<td>All Rem'd</td>
</tr>
<tr>
<td>201 (1)</td>
<td>Removal of Structures and Obstructions</td>
<td>L.S.</td>
<td>All Rem'd</td>
</tr>
<tr>
<td>202 (1)</td>
<td>Dredging</td>
<td>C.Y.</td>
<td>2,600 YD.</td>
</tr>
<tr>
<td>203 (2)</td>
<td>Rumble strips, C.O. #3</td>
<td>2000 YD.</td>
<td></td>
</tr>
<tr>
<td>203 (4)</td>
<td>Barrier, C.O. #4</td>
<td>1,000 YD.</td>
<td></td>
</tr>
<tr>
<td>203 (4)</td>
<td>Rumble strips, C.O. #5</td>
<td>2,000 YD.</td>
<td></td>
</tr>
<tr>
<td>207 (1)</td>
<td>Geotextile, riprap liner</td>
<td>SQ. YD.</td>
<td>2,000 YD.</td>
</tr>
<tr>
<td>209 (1)</td>
<td>Hammer Demolition, C.O. #6</td>
<td>L.S.</td>
<td>All Rem'd</td>
</tr>
<tr>
<td>213 (1)</td>
<td>Riprap floating, C.O. #6</td>
<td>L.S.</td>
<td>All Rem'd</td>
</tr>
<tr>
<td>201 (1)</td>
<td>12 3/4&quot; dia. x 1/2&quot; wall steel pile, furnished</td>
<td>L.F.</td>
<td>1.94 YD.</td>
</tr>
<tr>
<td>201 (2)</td>
<td>12 3/4&quot; dia. x 1/2&quot; wall steel pile, driven</td>
<td>EACH</td>
<td>2.3 YD.</td>
</tr>
<tr>
<td>201 (3)</td>
<td>16&quot; dia. x 1/2&quot; wall steel pile, furnished</td>
<td>L.F.</td>
<td>2,840 YD.</td>
</tr>
<tr>
<td>201 (4)</td>
<td>16&quot; dia. x 1/2&quot; wall steel pile, driven</td>
<td>EACH</td>
<td>23 YD.</td>
</tr>
<tr>
<td>202 (1)</td>
<td>Structural steel gangway (10&quot;x100')</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>206 (1)</td>
<td>Skim, retaining wall</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>211 (1)</td>
<td>Approach float (20&quot;x50')</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>211 (2)</td>
<td>Turnaround float (20&quot;x32')</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>211 (3)</td>
<td>Timber float (10&quot;x20')</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>211 (4)</td>
<td>Seaplane float (30&quot;x150')</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>213 (1)</td>
<td>Seaplane equipment, C.O. #2</td>
<td>TON</td>
<td>6.7 Tons</td>
</tr>
<tr>
<td>605 (1)</td>
<td>H-beam guardrail</td>
<td>L.F.</td>
<td>1,000 YD.</td>
</tr>
<tr>
<td>608 (2)</td>
<td>Removal and disposal of guardrail</td>
<td>L.F.</td>
<td>500 YD.</td>
</tr>
<tr>
<td>607 (1)</td>
<td>Guard rail assembly, C.O. #1</td>
<td>TON</td>
<td>3,000 YD.</td>
</tr>
<tr>
<td>615 (1)</td>
<td>Standard signs</td>
<td>SQ. FT.</td>
<td>42.75</td>
</tr>
<tr>
<td>615 (2)</td>
<td>Wind cone</td>
<td>EACH</td>
<td>1</td>
</tr>
<tr>
<td>642 (1)</td>
<td>Guard structure, C.O. #3</td>
<td>L.S.</td>
<td>All Rem'd</td>
</tr>
<tr>
<td>652 (1)</td>
<td>Approach float select, C.O. #1</td>
<td>L.S.</td>
<td>All Rem'd</td>
</tr>
<tr>
<td>660 (1)</td>
<td>Electrical lighting system</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>662 (1)</td>
<td>20' fire extinguisher &amp; container</td>
<td>EACH</td>
<td>6</td>
</tr>
</tbody>
</table>

## ADDITIVE ALTERNATE NO. 1

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Pay Item</th>
<th>Pay Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>301 (1)</td>
<td>16&quot; dia. x 1/2&quot; wall steel pile, furnished</td>
<td>L.F.</td>
<td>450 YD.</td>
</tr>
<tr>
<td>301 (2)</td>
<td>16&quot; dia. x 1/2&quot; wall steel pile, driven</td>
<td>EACH</td>
<td>7</td>
</tr>
<tr>
<td>311 (4)</td>
<td>Ramp seaplane float (44&quot;x185')</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>615 (1)</td>
<td>Standard signs</td>
<td>S.F.</td>
<td>15</td>
</tr>
<tr>
<td>660 (1)</td>
<td>Electrical lighting system</td>
<td>L.S.</td>
<td>ALL RECD.</td>
</tr>
<tr>
<td>662 (1)</td>
<td>20' fire extinguisher &amp; container</td>
<td>EACH</td>
<td>3</td>
</tr>
</tbody>
</table>

### LEGEND:

- **Solid line for new**
- **Dashed line for existing**
- **Section number (letter)**
- **Detail number (numerical)**
- **Sheet number**

### GENERAL NOTES:

1. See sheet 38 for the approved disposal site of dredged material.
2. See sheet 38 for location of existing seaplane float to be removed and disposed.
3. The contractor shall be required to coordinate the assembly of the float and the installation of the electrical system to avoid conflicts. The contractor will not be allowed to remove float deck to install the electrical lighting system. The wiring system for the lighting shall be installed during float assembly.

### NOTE:

- Do not scale from these plans—use dimensions.
### Tidal Data
- DHW = 20.5'  
- EHL = 19.5'  
- MHW = 15.7'  
- MHW = 14.8'  
- NL = 8.1'  
- MLW = 0.0'  
- ELW = -4.0'

### Seaplane Facility Data

<table>
<thead>
<tr>
<th>Existing</th>
<th>Ultimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airport Type</td>
<td>Utility</td>
</tr>
<tr>
<td>Airplane Design Group/Approach Speed Category</td>
<td>9/6</td>
</tr>
<tr>
<td>Airport Elevation</td>
<td>Sea Level</td>
</tr>
<tr>
<td>Mean Maximum Temperature of Warmest Month</td>
<td>83.7°F</td>
</tr>
<tr>
<td>Waterline Dimensions</td>
<td>150' x 200'</td>
</tr>
<tr>
<td>Float Elevation</td>
<td>Varies Outside</td>
</tr>
<tr>
<td>Airport and Terminal Navigational Aids</td>
<td>None</td>
</tr>
<tr>
<td>Float Dimensions</td>
<td>Varies</td>
</tr>
<tr>
<td>Pull-Up Ramp Width</td>
<td>20'</td>
</tr>
<tr>
<td>Maximum Wing Span</td>
<td>79'</td>
</tr>
<tr>
<td>Gearbox Width</td>
<td>10'</td>
</tr>
<tr>
<td>Gradient at ELW</td>
<td>24.5'</td>
</tr>
<tr>
<td>Gradient at EHL</td>
<td>2.2'</td>
</tr>
<tr>
<td>Utilities Available</td>
<td>Elec</td>
</tr>
</tbody>
</table>

**Approach and Clear Zone Layout**

**Future Airplane Hangars (6 Total)** to be provided by others if desired.

**Addition Alternate No. 1**

**Approach Plan NE-SW Sea Lane**

**Approach Profile NE-SW Sea Lane**

**Note:** Do not scale from these plans—use dimensions.

**Record of Revisions**

**Project No.:** 30042  
**Date: August 1994**

**Engineer's Seal**

**State of Alaska**  
**Department of Transportation and Public Facilities**  
**Southeast Region Design & Construction**

**Seaplane Float Facility**  
**A.I.P. # 3-02-0304-01**  
**Float Layout Plan**

**Designed by:**  
**Drawn by:**  
**Checked by:**

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION
NOTES:

1. See sheet 38 for the approval disposal site for dredged material.

2. Boulders may be disposed of by digging a hole in the dredge area and burying the boulder so that it does not protrude above the +0 feet elevation.

3. Boulders protruding above the +8 feet elevation shall be removed.

See note A3 on this sheet.
REMOVAL WALL ELEVATION

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

NOTE: DRIVE THE 16'4" APPROACH PILES TO A MINIMUM 30 FT DEEPEST 20-TON BORING AND 20-TON FOR THE 12 3/4" BATTER PILE. MINIMUM PENETRATION FOR BOTH PILES IS 10'-0".

REMOVAL WALL DETAILS

NOTE: PIPE TRACING NOT DRAWN FOR CLARITY. SEE SHEET 33 FOR DETAILS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SEAPLANE FLOAT FACILITY
A.I.P. #3-02-0534-01

REMOVABLE WALL DETAILS

REMOVABLE WALL DETAIL

REMOVABLE WALL SECTION

REMOVABLE WALL DETAIL 2

REMOVABLE WALL DETAIL 3

REMOVABLE WALL DETAIL 4
FRAMING DETAILS

NOTES:

1. Company shall be shipped assembled.
2. Approximate gangway weight = 54,000 lb.
3. No bolt or stud space drawn within mid-third of span.
4. Complete gangway to be galvanized.
5. Company cover shall be smooth and portable.

6. Method of fastening the steel grading shall be accomplished either by welding, screwing, or bolting. The protective coating shall be flash-coated 20 g. of each floor stringer and 6" from gangway ends.

PLAN

Heavy welded wt. galvanizing 5/8" x 1/16" x 1/4" - 4" bearing bars @ 3/4" o.c. w/cross bars @ 4" o.c. and treated top edges

ELEVATION

Company roller, see details sheet 6

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS
SECTION A

1/2" x 3/4" x 1-1/2" steel & top & bottom interior copper edges to match interior of TS4x4.

3/8" x 3/4" x 3/4" z-channel to match TS 4x4.

3/8" x 3/4" x 1-1/2" Z-channel to match TS 4x4.

3/8" x 3/4" x 1/2" z-channel to match TS 4x4.

2-3/4" (bottom) and 2-3/4" (top) radius at both sides.

1/4" x 1/2" bolt, nut, washer, and cotter pin.

2" x 10 1/2" long pin (1/4" chamfer, top).

2" x 1" long pipe ( Schedule 40), bolt 1/16" x 8 for bolts, typical.

1/2" x 15 1/2" side plate.

NOTE: GREASE SIDE PLATES BEFORE INSTALLING SANDKIT.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SEAPLANE FLOAT FACILITY
A.I.P. # 3-02-0004-01

VERTICAL HINGE DETAILS

ENGINEER'S SEAL

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PETERSBURG
ALASKA

DRAWN BY: D.P.I
CHECKED BY: M.M
DATE: AUGUST 1994
PROJECT NO.: 70044
SHEET 11 OF 40

RECORD OF REVISIONS

See sheet 32 for approach side details.

1/2" x 15 1/2" side plate.
STRINGER SPlice 18" to 18"

STRINGER SPlice 36" to 18"

TYPICAL BOLTING DETAIL FOR SUB-DECKING

DECKING NOTES:
1. 2x10 milled decking shall be spaced 1/4" apart and secured with 2½" galvanized box nails. Pre-piloted to prevent splitting if required.
2. Piled side of 2x10 shall be toward inside of tree.
3. See detail 6 for nailing pattern.

PIPE BLOCKING DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

NAILING PATTERN DETAIL FOR 2x10 DECKING
PILE COLLAR DETAIL
FOR 20'x180' APPROACH FLOAT

SECTION A

3/4" x 1 1/4" elevator bolts
and stud two half hoops
 typical
1/4" radius, typical
3/8" x 1 1/4" elevator bolts
 and stud two half hoops
 typical
3/4" x 1 1/4" elevator bolts
 and stud two half hoops
 typical
3/8" x 1 1/4" elevator bolts
 and stud two half hoops
 typical

3/8" x 2 1/4" 1 1/2" x 3/8" 1 1/2" x 3/8" 1 1/2" x 3/8"
1 1/2" x 3/8" 1 1/2" x 3/8" 1 1/2" x 3/8" 1 1/2" x 3/8"
1 1/2" x 3/8" 1 1/2" x 3/8" 1 1/2" x 3/8" 1 1/2" x 3/8"

3/4" x 1 1/4" elevator bolt
 and stud two half hoops
 typical
1/4" radius, typical
3/8" x 1 1/4" elevator bolts
 and stud two half hoops
 typical
3/4" x 1 1/4" elevator bolt
 and stud two half hoops
 typical
3/8" x 1 1/4" elevator bolt
 and stud two half hoops
 typical

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

PETERSBURG
SEAPLANE FLOAT FACILITY
A.I.P. # 3-02-0304-01
PILE COLLAR DETAILS

ENGINEER'S SEAL

P. PFSO Design & Construction
DATE: AUGUST, 1994
SHEET 20 OF 42
WARNING
BOATS
PROHIBITED AT
SEAPLANE FLOAT
STATE OF ALASKA DOT&PF

SIGN "A"
2 REQUIRED

STATE OF ALASKA
PUBLIC SEAPLANE
FLOAT
OPERATED BY THE CITY OF
PETERSBURG

SIGN "B"
2 REQUIRED

RESTRICTED
USE
LOADING &
UNLOADING
ONLY

SIGN "C"
2 REQUIRED

WARNING
VEHICLES
PROHIBITED
BEYOND THIS
POINT

SIGN "D"
1 REQUIRED

GANGWAY
LOAD LIMIT
10,000 LBS.
MAX. VEHICLE GROSS WT.

SIGN "E"
1 REQUIRED

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SEAPLANE FLOAT FACILITY
A.I.P. # 3-02-0040-01

SIGN DETAILS

ENGINEER'S SEAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

PROJECT NO.
PROJECT DATE
August 1994

SHEET 30 OF 42
PERMANENT CONSTRUCTION SIGNING

TRAFFIC CONTROL NOTES:
1. A minimum of one lane shall be maintained at all times of work areas.
2. Driving lanes shall be a minimum width of 10'-0".
3. Cones shall be used for channeling traffic thru construction area. Cones shall be a minimum height of 28 inches.
4. The Contractor shall provide a flagger if it is required by the Project Engineer.
5. The areas of guardrail that is removed shall be replaced using Type I barricade spaced 10'-0" o.c. Barricades shall be lighted.

SINGLE LANE CLOSURE

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEAPLANE FLOAT FACILITY
A.I.P. # 3-02-0304-01
TRAFFIC CONTROL PLAN

PETERSBURG
ALASKA

DESIGNED BY:

DRAWN BY:

CHECKED BY:

PROJECT NO. 70841
DATE: AUGUST 1994

RECORD OF REVISIONS

ENGINEER'S SEAL
1. FOR POLE BASE SUPPORT DETAILS IN TIMBER, RAMP, AND SEAPLANE FLOATS, SEE SHEET 1.
2. ON APPROACH AND TURNAROUND FLOATS, BOLT POLE BASE TO SUBGRADE.
3. FOR SEAPLANE FLOAT, RUN CABLE ON TOP OF FLOATS AND BOTTOM SEALS AS REQUIRED AND SECURE AT LEAST EVERY 40 FT.
4. FOR Approach AND Turnaround Float, Run Cable in PVC Conduit, Secure to Bottom of Timbers and Bottom Seals as Required at Least Every 40 FT.
5. FOR RAMP FLOAT, RUN CABLE ON TOP OF SEALS AS REQUIRED AND SECURE AT LEAST EVERY 40 FT.
6. CABLES NOT IN CONDUIT THAT ENTER POLE BASES SHALL BE SUPPORTED BY CABLE CLIPS. ALTERNATIVELY, CONTRACTOR MAY PROVIDE A SHORT LENGTH OF PVC CONDUIT TO PROTECT THE CABLE FROM IMPACT UP THRU TOP POLE BASE.

PHOTOCALL CONTROL DIAGRAM

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS