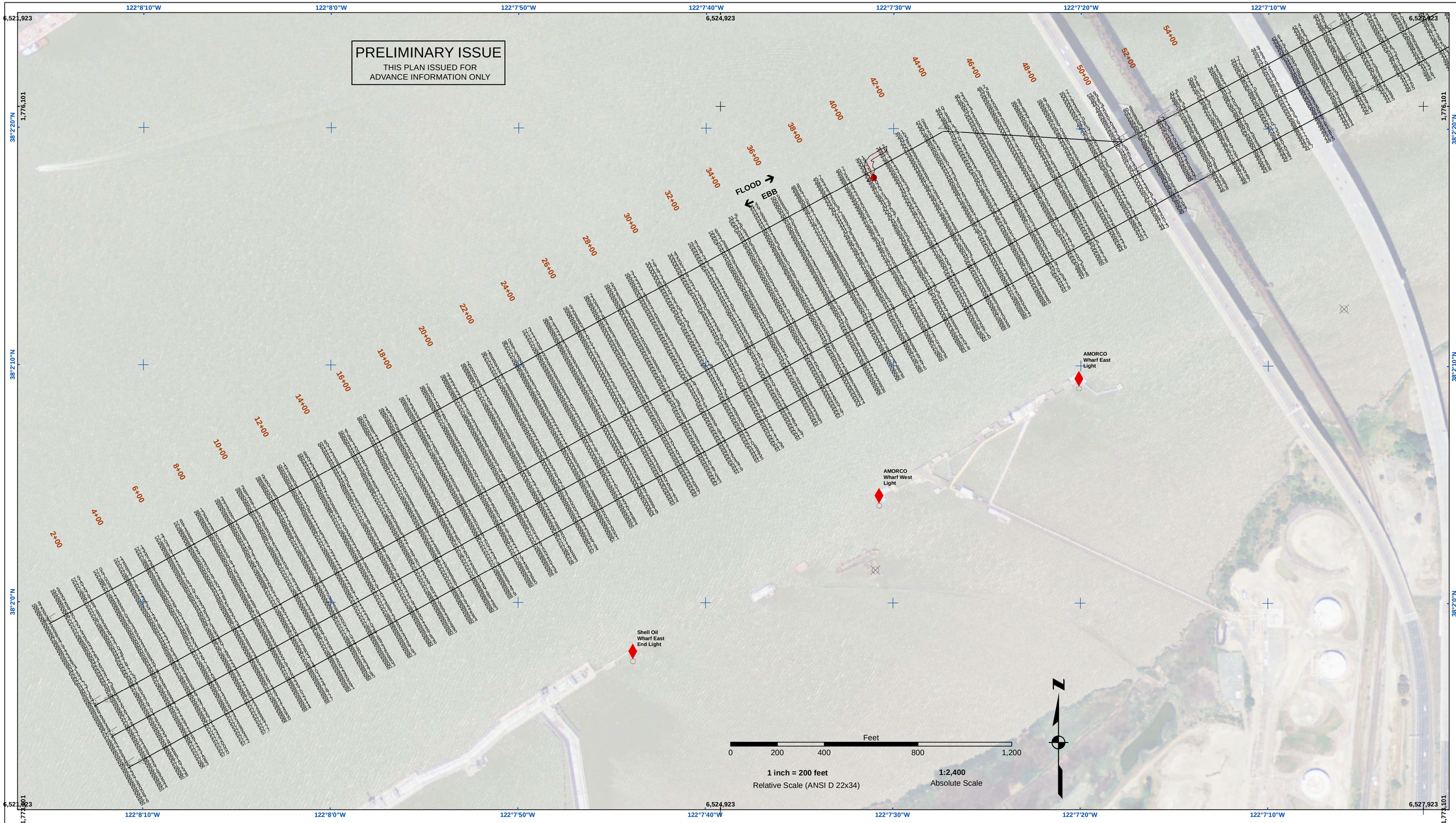

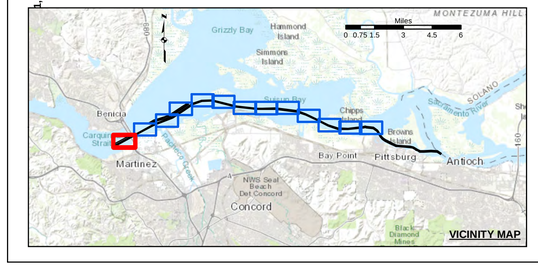

Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

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PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION,
ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.
BASE MAPS ARE USDA NAIP 2010.

*SHOALEST SOUNDING PER QUARTER PER REACH

DRAWING NOT TO BE USED FOR NAVIGATION, ONLY CHANNEL CONDITION AT DATE OF SURVEY.
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INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT
THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW.
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 500+00) BENCHMARK "5144-P" (1990 RESET 1997),
(LINES 500+00 TO 660+00) BENCHMARK "5144-P" (1990 RESET 1997),
USC&GS DISK, ELEV 11.83 FT MLLW.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
USC&GS DISK, ELEV 21.76 FT MLLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Surveyed By:	Chart Date: Jan 26, 2023	
Plotted By: PDT	Designed By:	
Checked By: PDT	Drawn By: PDT	

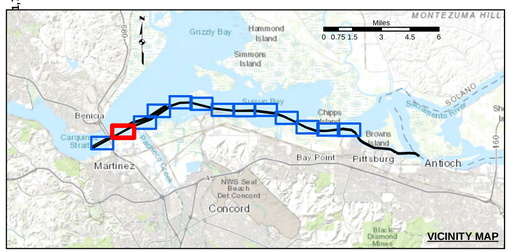
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 1 of 13



Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
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Submerged Wreck		-31
Angle Point		

NOTES:

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SURVEYED BY THE CORPS OF ENGINEERS.

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(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
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TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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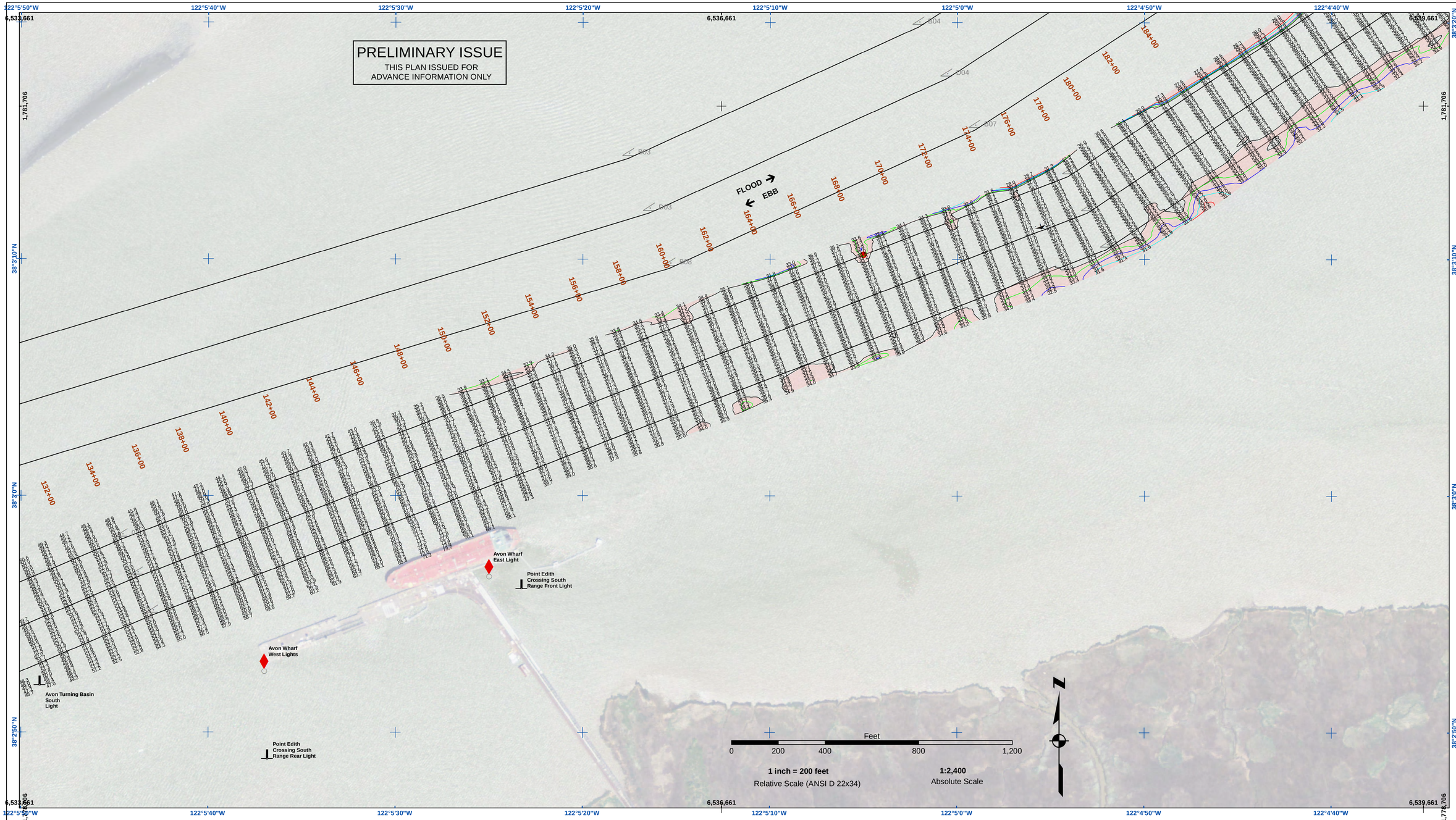
Chart Date: Jan 26, 2023

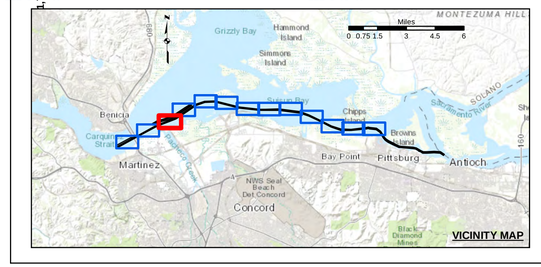
Surveyed By:		Plotted By: PDT	Designed by:
PREPARED UNDER THE DIRECTION OF KEVIN P. ARNETT LT. COLONEL, C.E. DISTRICT ENGINEER		Submitted: Hydro Survey Team Leader	Recommended: Chief, Hydro Survey Section
Drawn by: PDT	Checked By: PDT	Approved: Chief, Construction Branch	

CALIFORNIA
CONTRA COSTA COUNTY

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 2 of 13





- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours

- -35
- -34
- -33
- -32
- -31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

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SURVEYED BY THE CORPS OF ENGINEERS.

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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW,
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: Jan 26, 2023

Surveyed By:	Plotted By: PDT	Checked By: PDT
	Designed By:	Drawn By: PDT

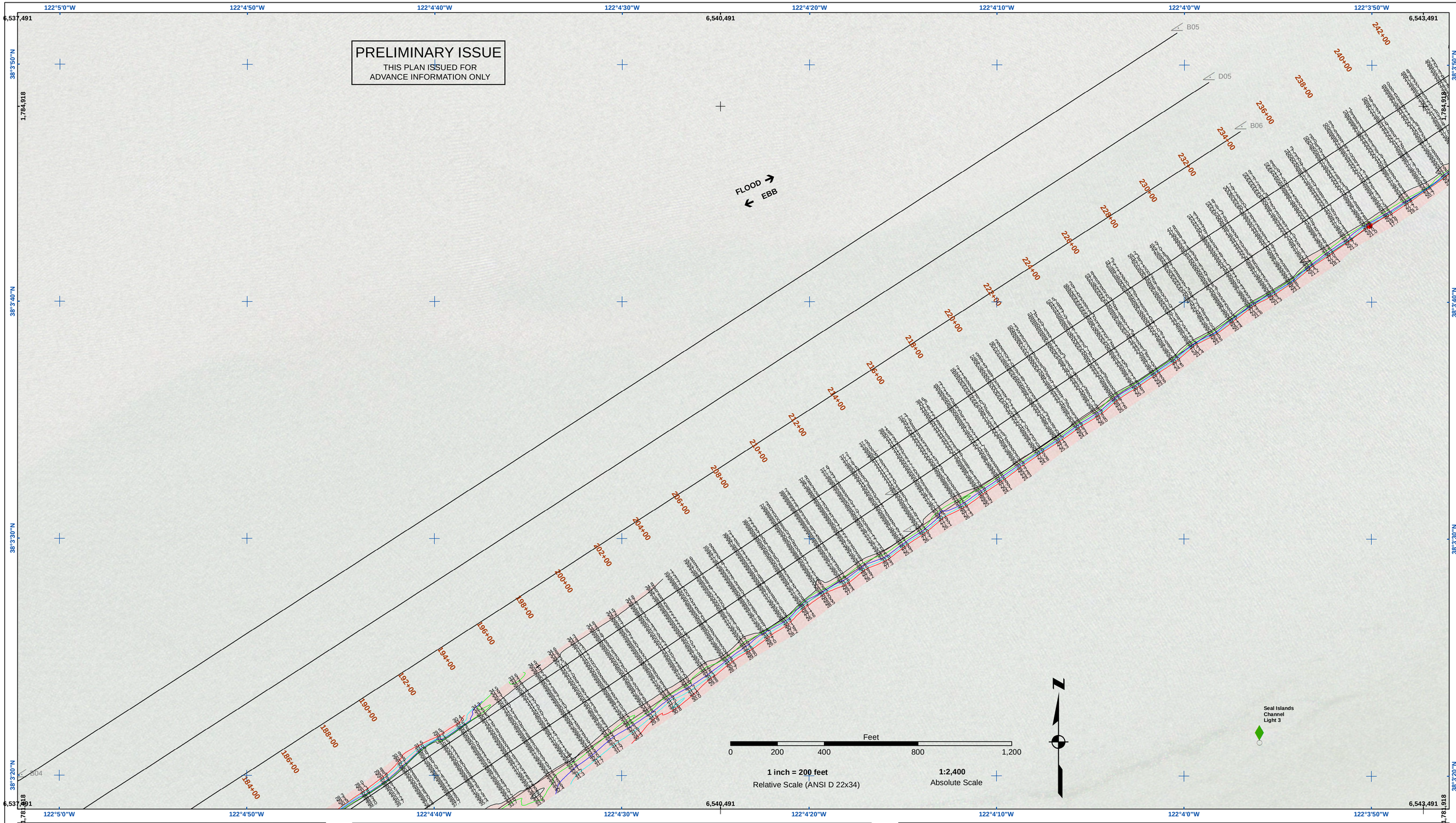
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

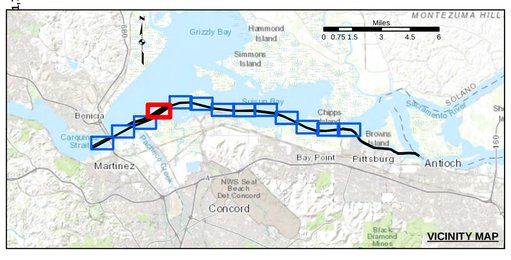
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 3 of 13





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
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Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

NOTES:

HORIZONTAL COORDINATE SYSTEM:
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Surveyed By:	Chart Date: Jan 26, 2023
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

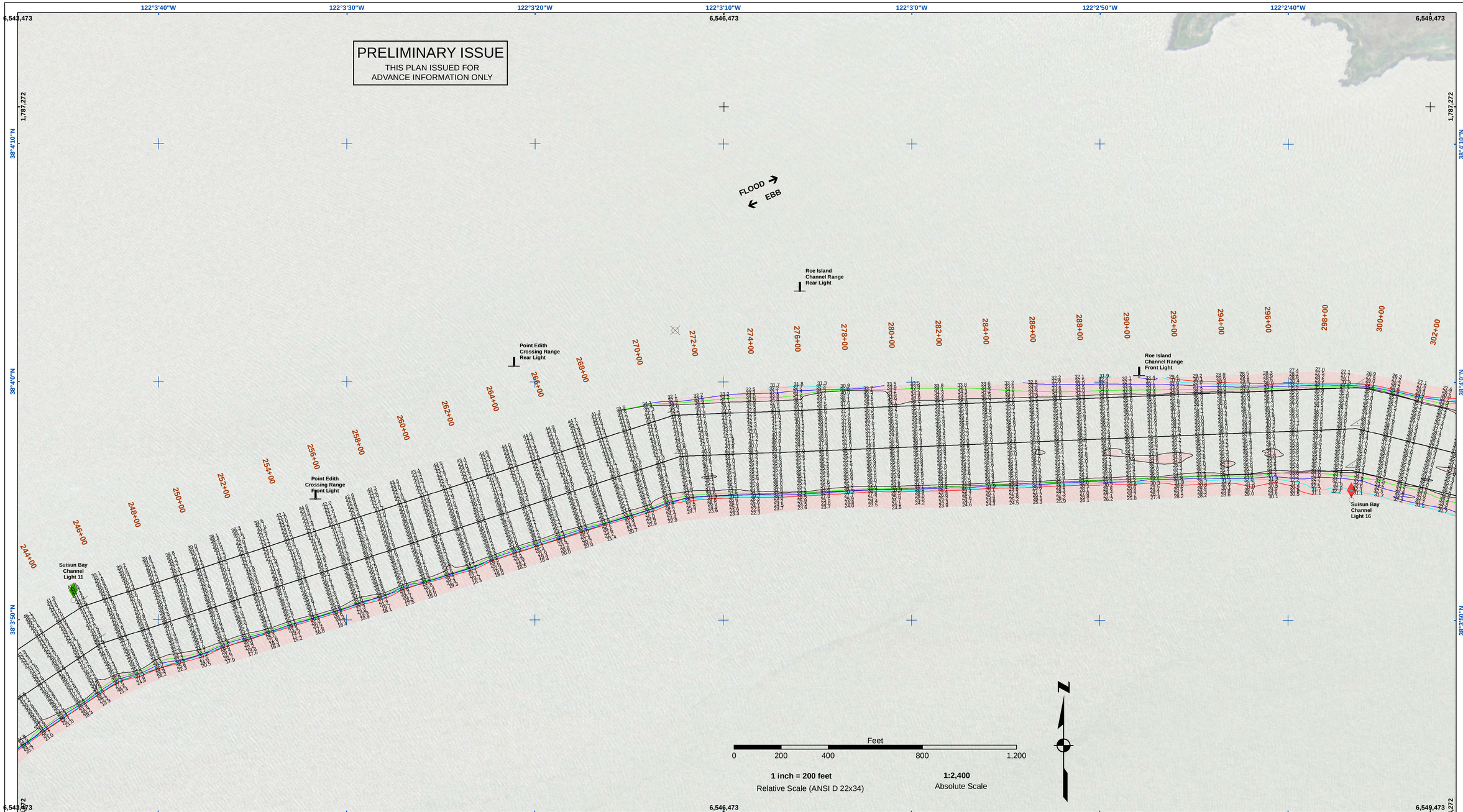
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

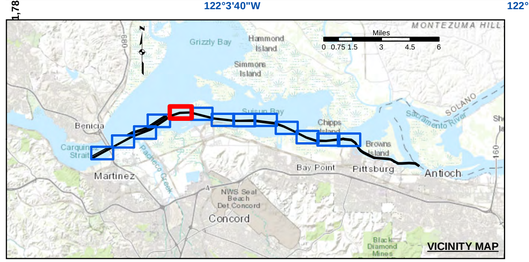
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 4 of 13





Federal Navigation Channel	Beacon, General	**Contours**	
Shoaling Area	Obstruction Point		-35
Placement Area	Navigation Buoy		-34
Anchorage Area	Navigation Buoy		-33
Wreck Area	Shoalest Sounding*		-32
Submerged Wreck			-31
Angle Point			

NOTES:

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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
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Chart Date: Jan 26, 2023	
Surveyed By:	
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

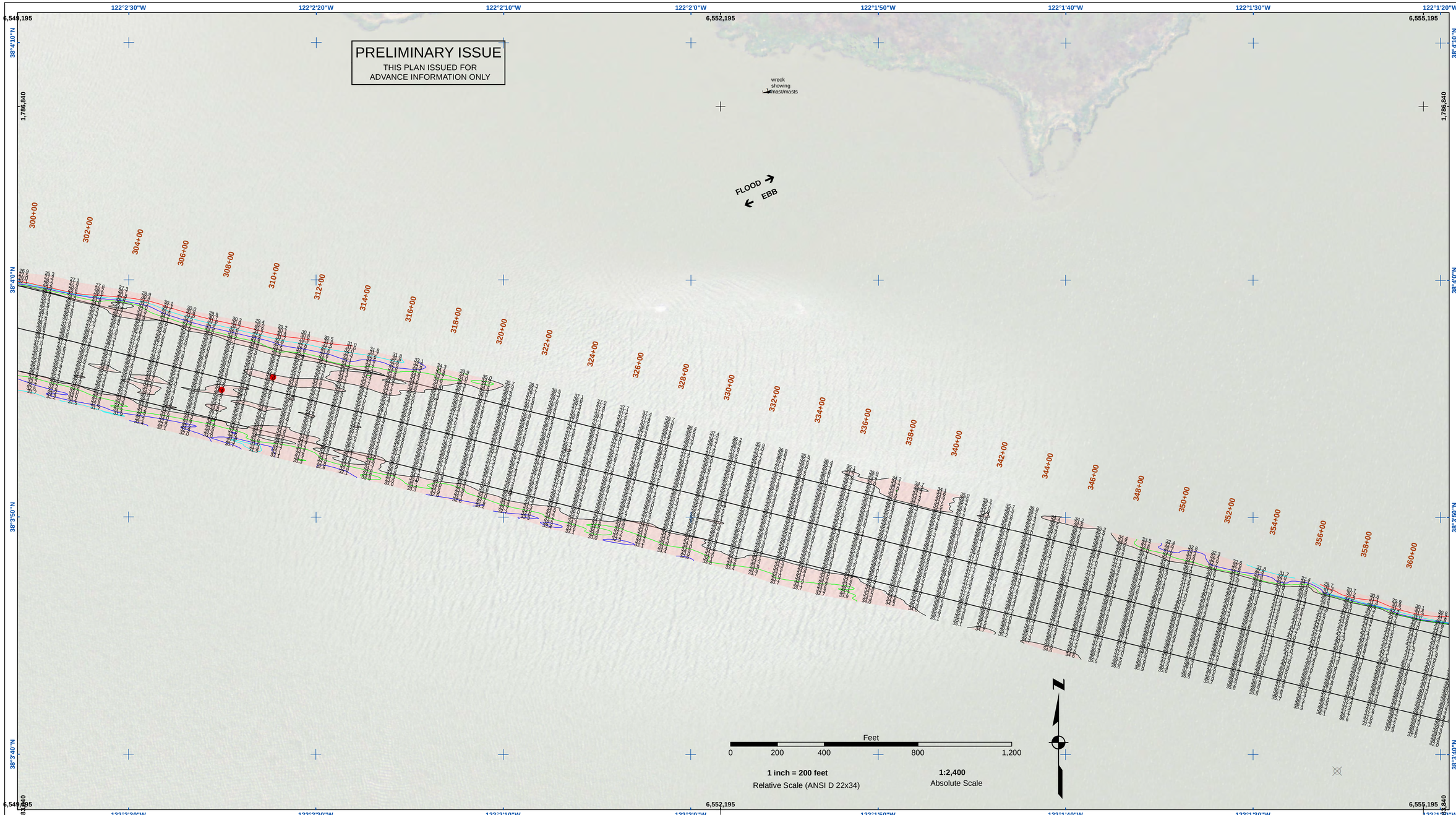
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

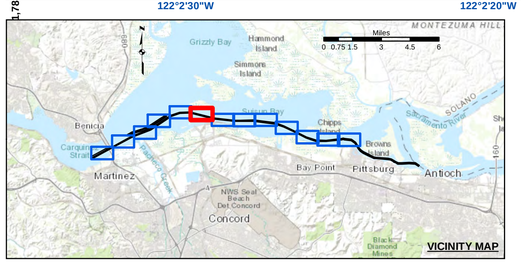
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 5 of 13





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
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Submerged Wreck		-31
Angle Point		

NOTES:

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USC&GS DISK, ELEV 21.76 FT MLLW.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Surveyed By:	Plotted By: PDT	Checked By: PDT
Chart Date: Jan 26, 2023	Designed by:	Drawn by: PDT

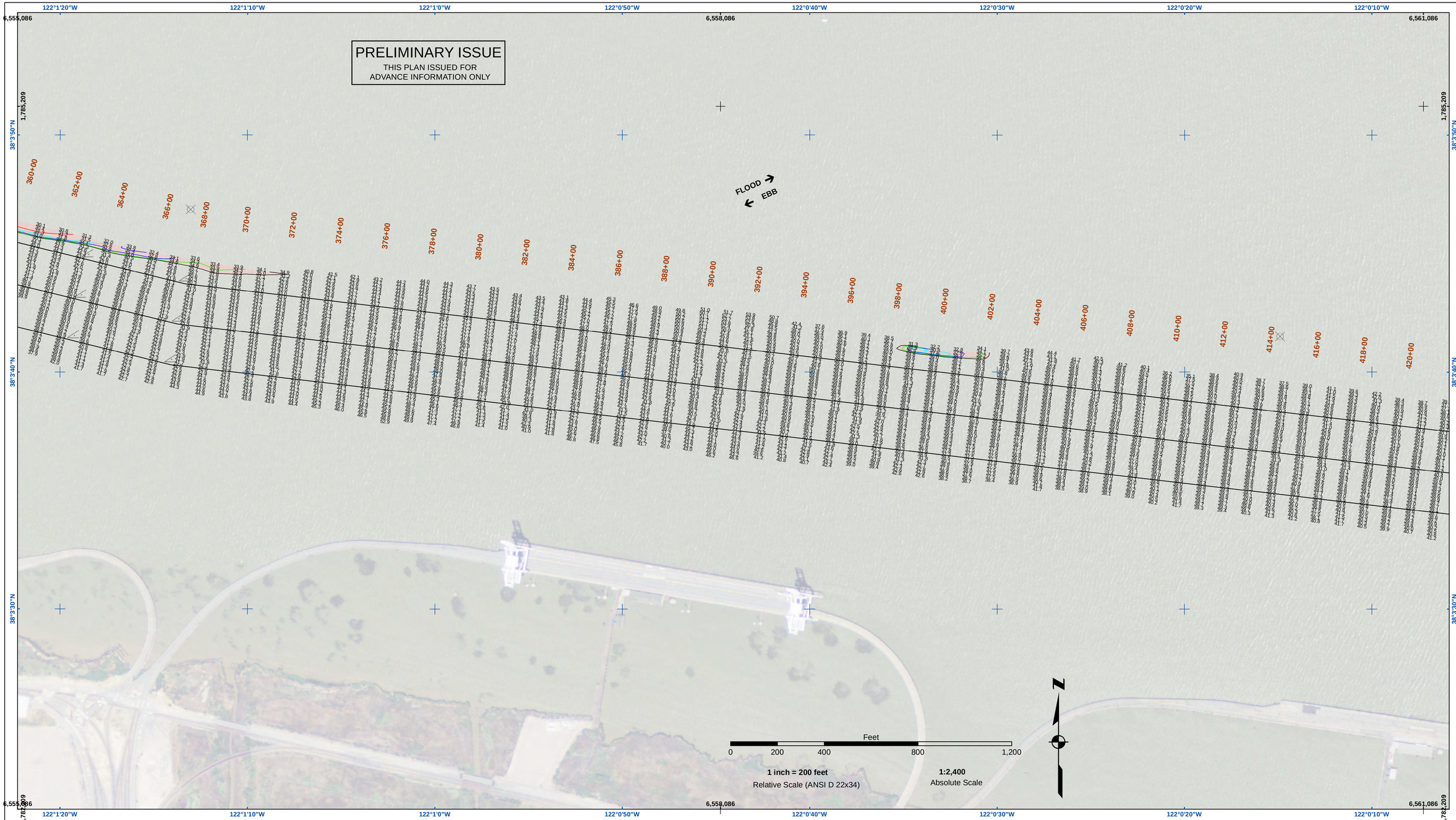
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

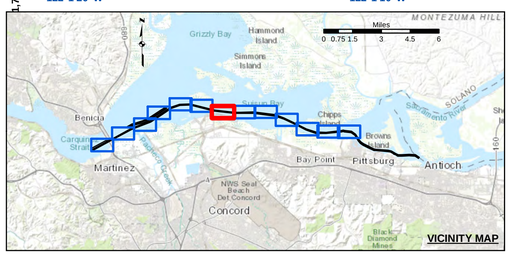
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 6 of 13





- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours

- -35
- -34
- -33
- -32
- -31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

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BASE MAPS ARE USDA NAIP 2010.

*SHOALEST SOUNDING PER QUARTER PER REACH

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SURVEYED BY THE CORPS OF ENGINEERS.

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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
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TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 500+00) BENCHMARK "5144-P" (1990 RESET 1997),
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USC&GS DISK, ELEV 11.83 FT MLLW.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Surveyed By:	Designed by:
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

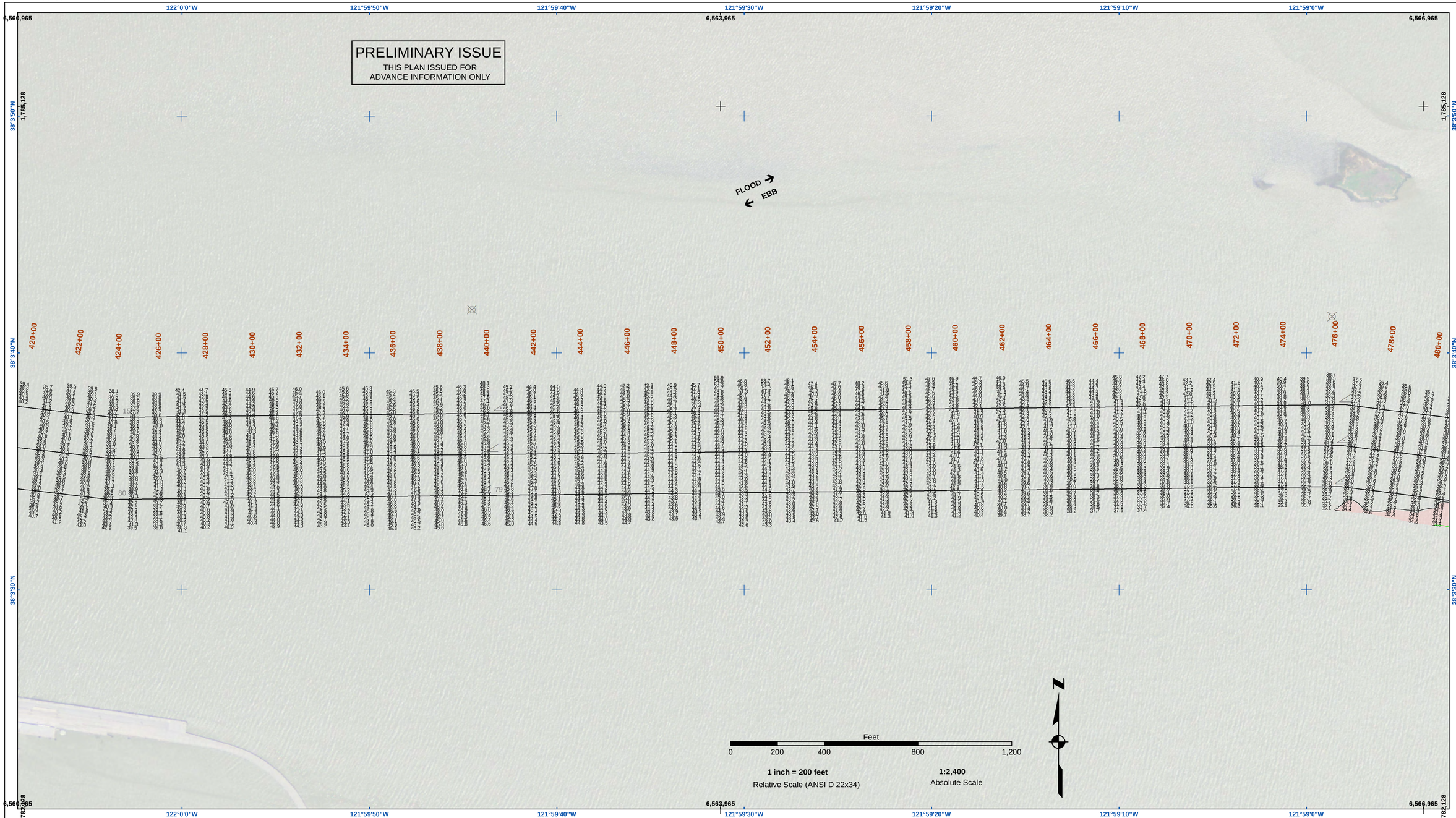
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

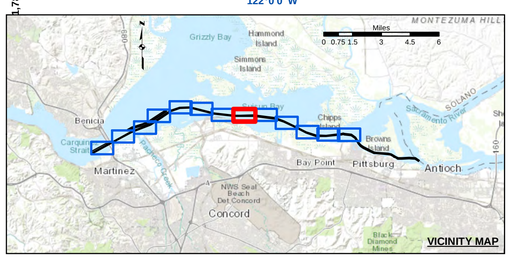
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 7 of 13





- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours

- -35
- -34
- -33
- -32
- -31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

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THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Chart Date: Jan 26, 2023			
Surveyed By:		Designed by:	
Plotted By: PDT		Drawn by: PDT	
Checked By: PDT			

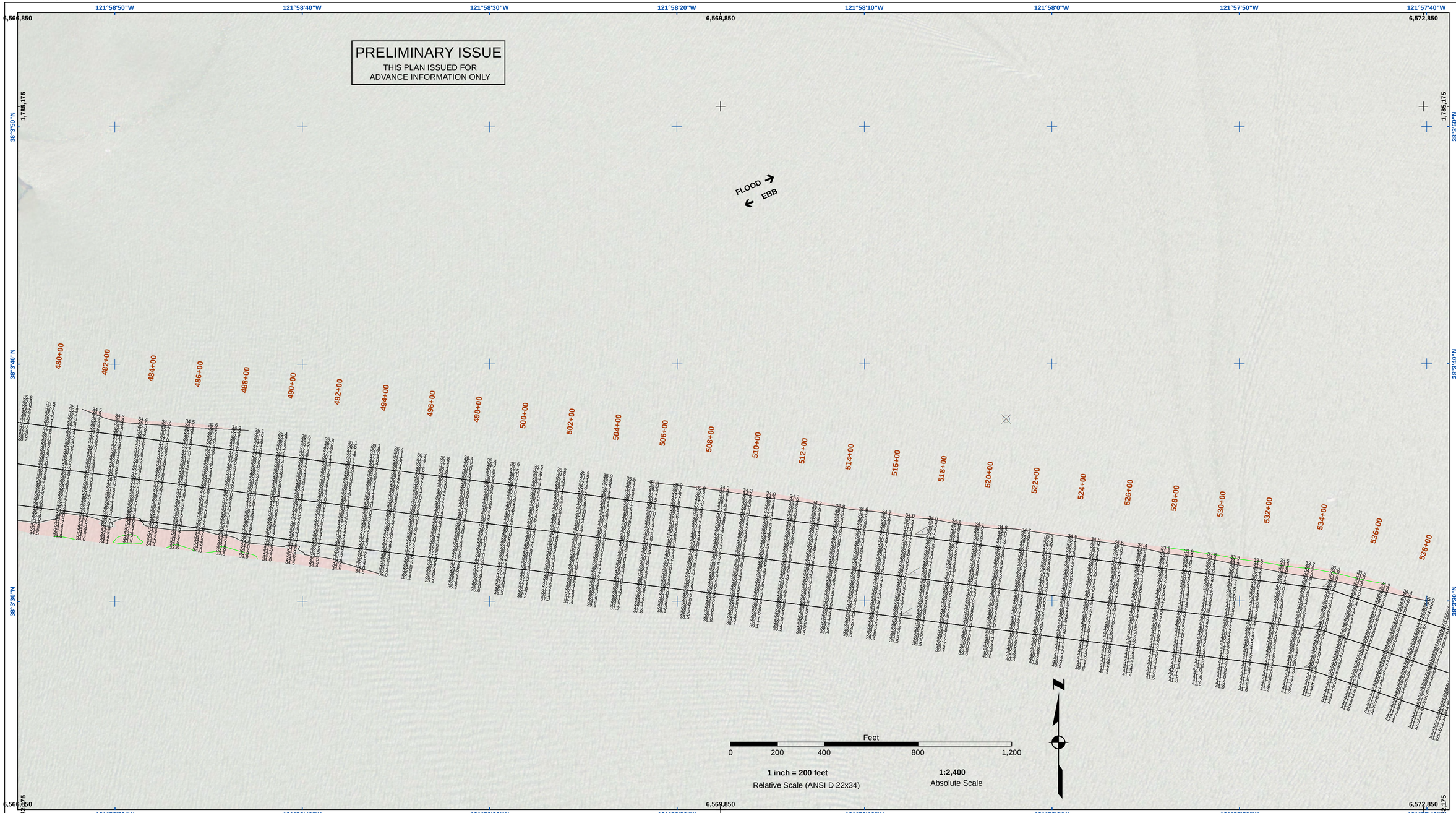
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

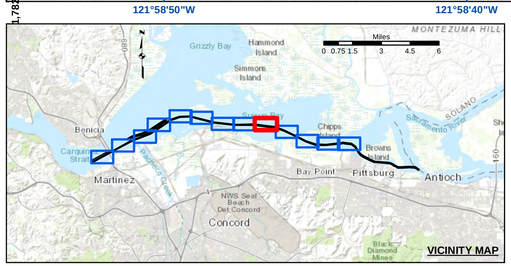
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 8 of 13





- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours

- -35
- -34
- -33
- -32
- -31

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

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VERTICAL CONTROL:
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(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
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Chart Date: Jan 26, 2023

Surveyed By:
Plotted By: PDT
Designed By:
Checked By: PDT
Drawn By: PDT

PREPARED UNDER THE DIRECTION OF:
KEVIN P. ARNETT
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted:
Hydro Survey Team Leader

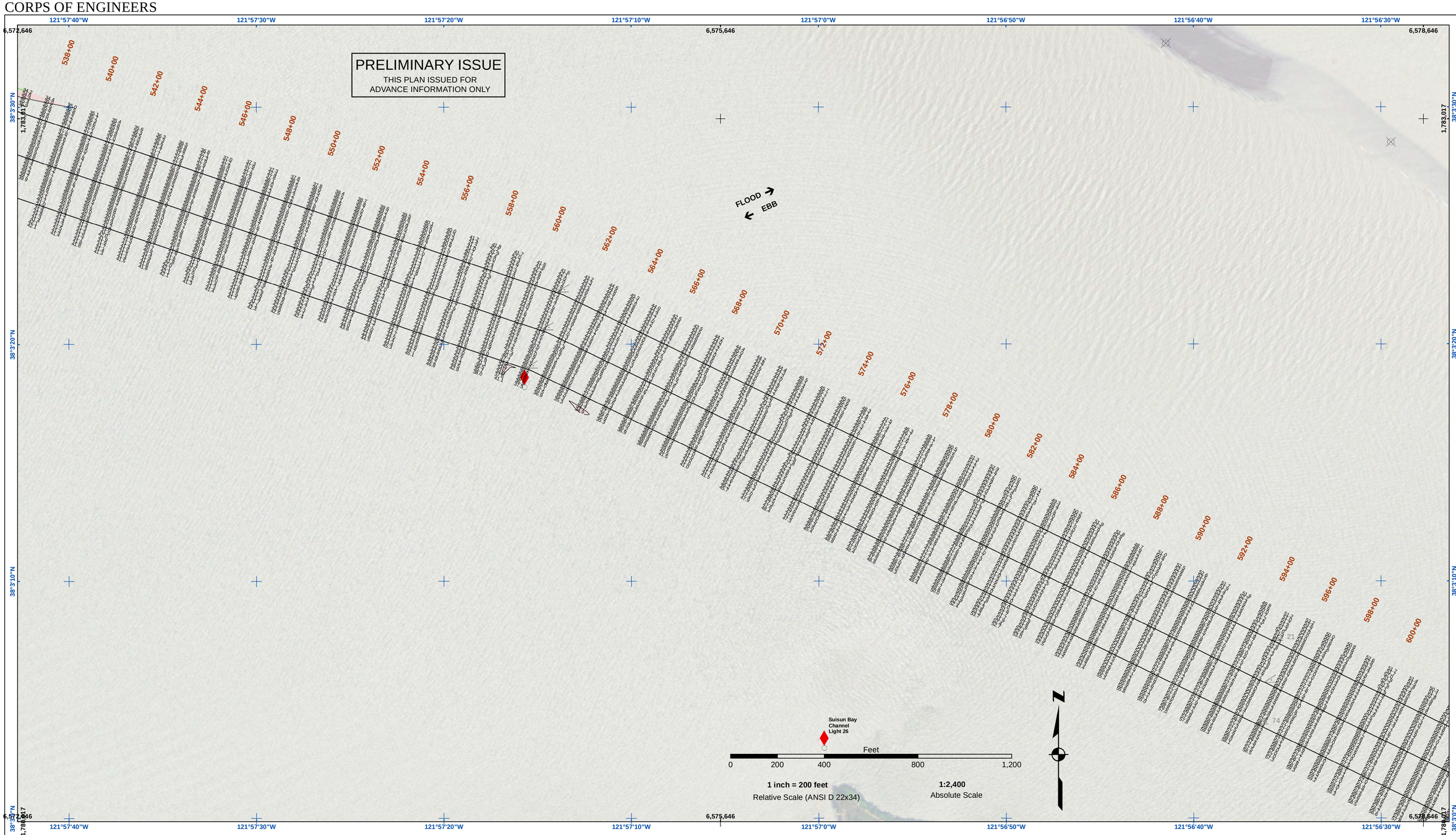
Recommended:
Chief, Hydro Survey Section

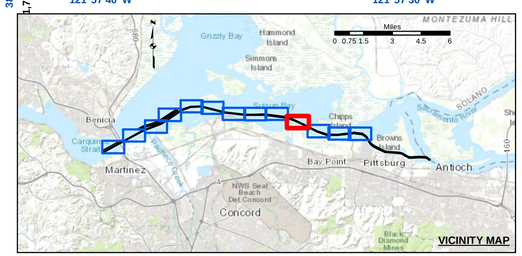
Approved:
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 9 of 13





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

NOTES:

HORIZONTAL COORDINATE SYSTEM:
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Surveyed By:	Designed by:
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

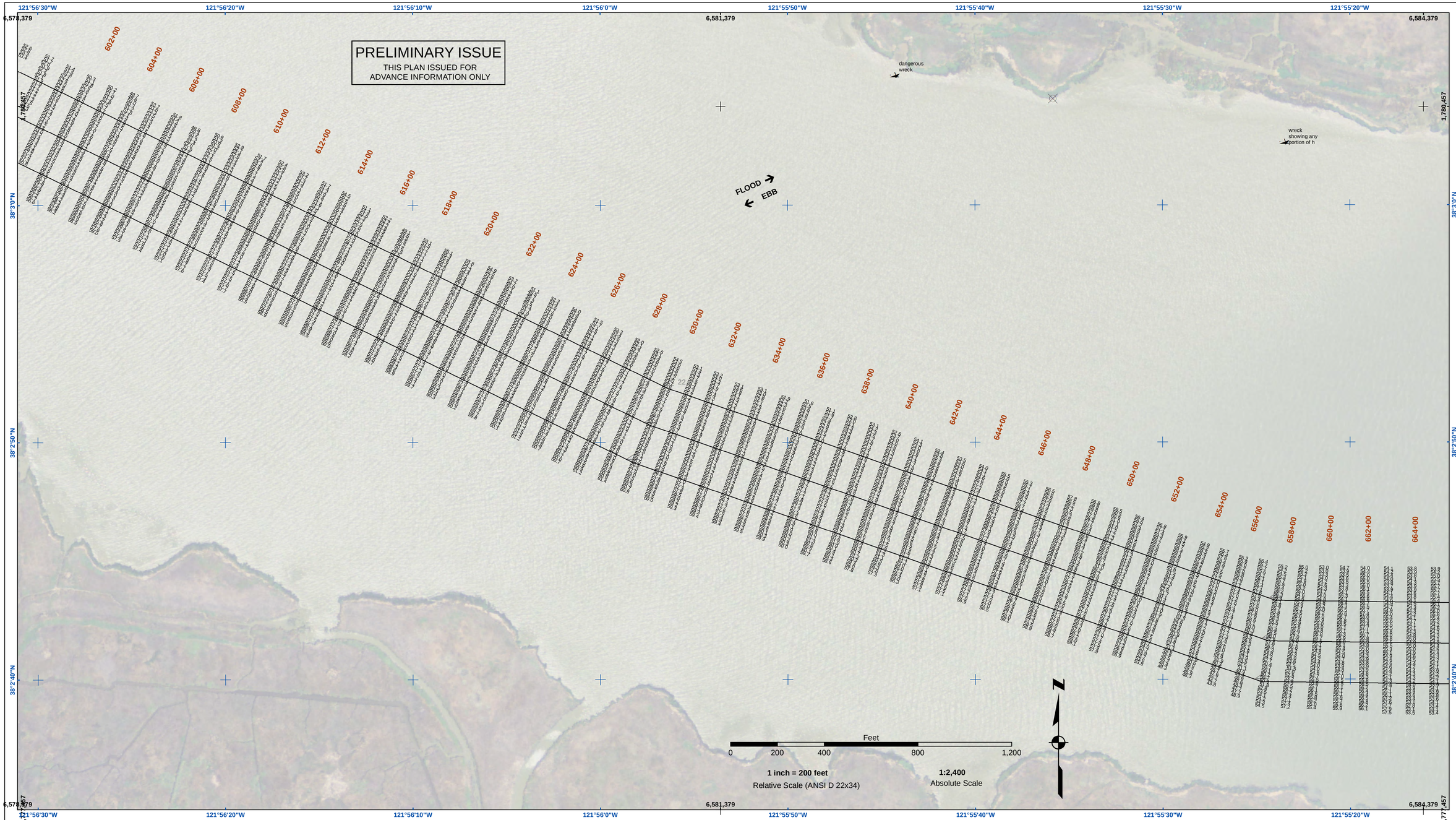
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E.E., DISTRICT ENGINEER

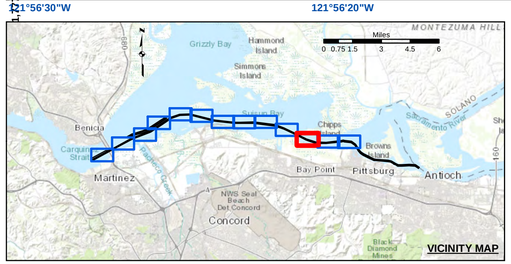
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 10 of 13





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

NOTES:

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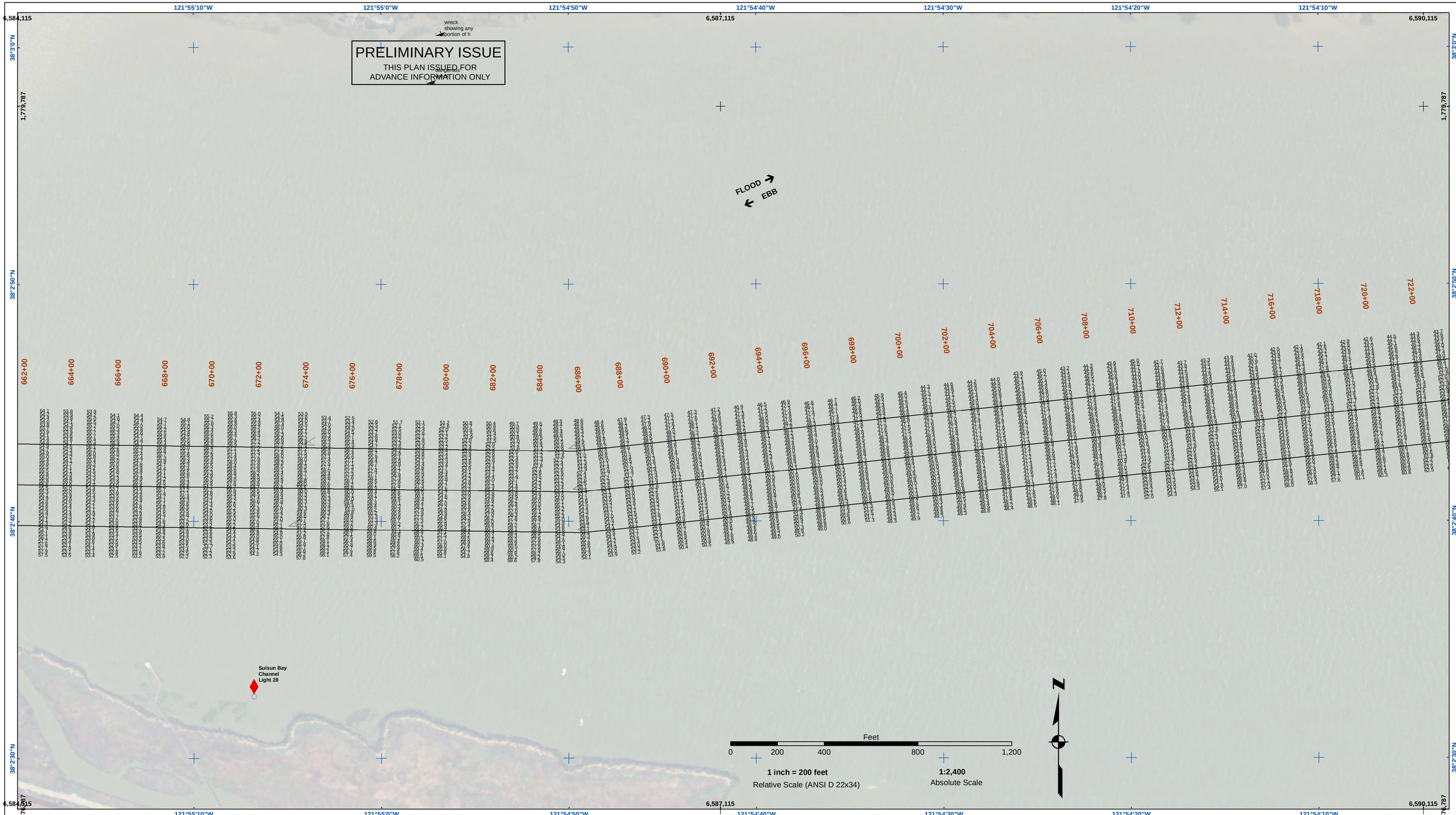
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

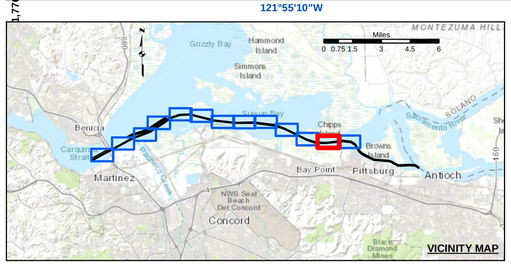
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 11 of 13





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.

PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION,
ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.
BASE MAPS ARE USDA NAIP 2010.

*SHOALEST SOUNDING PER QUARTER PER REACH

DRAWING NOT TO BE USED FOR NAVIGATION, ONLY CHANNEL CONDITION AT DATE OF SURVEY.
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON
INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT
THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW,
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 500+00) BENCHMARK "5144-P" (1990 RESET 1997),
(LINES 500+00 TO 660+00) BENCHMARK "5144-P" (1990 RESET 1997),
USC&GS DISK, ELEV 11.83 FT MLLW,
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
USC&GS DISK, ELEV 21.76 FT MLLW,
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

US Army Corps of Engineers
San Francisco District
450 Golden Gate Ave
San Francisco, CA 94102

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Acceptance of Documents: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be used as a navigational aid only when supplemented by other data made thereof. These data belong to the Government. Therefore the recipient fully agrees not to represent these data to anyone as other than Government data or to remove any Government character these data to others without also transferring this Disclaimer.

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Chart Date: Jan 26, 2023
Surveyed By:
Designed by:
Plotted By: PDT
Checked By: PDT
Drawn by: PDT

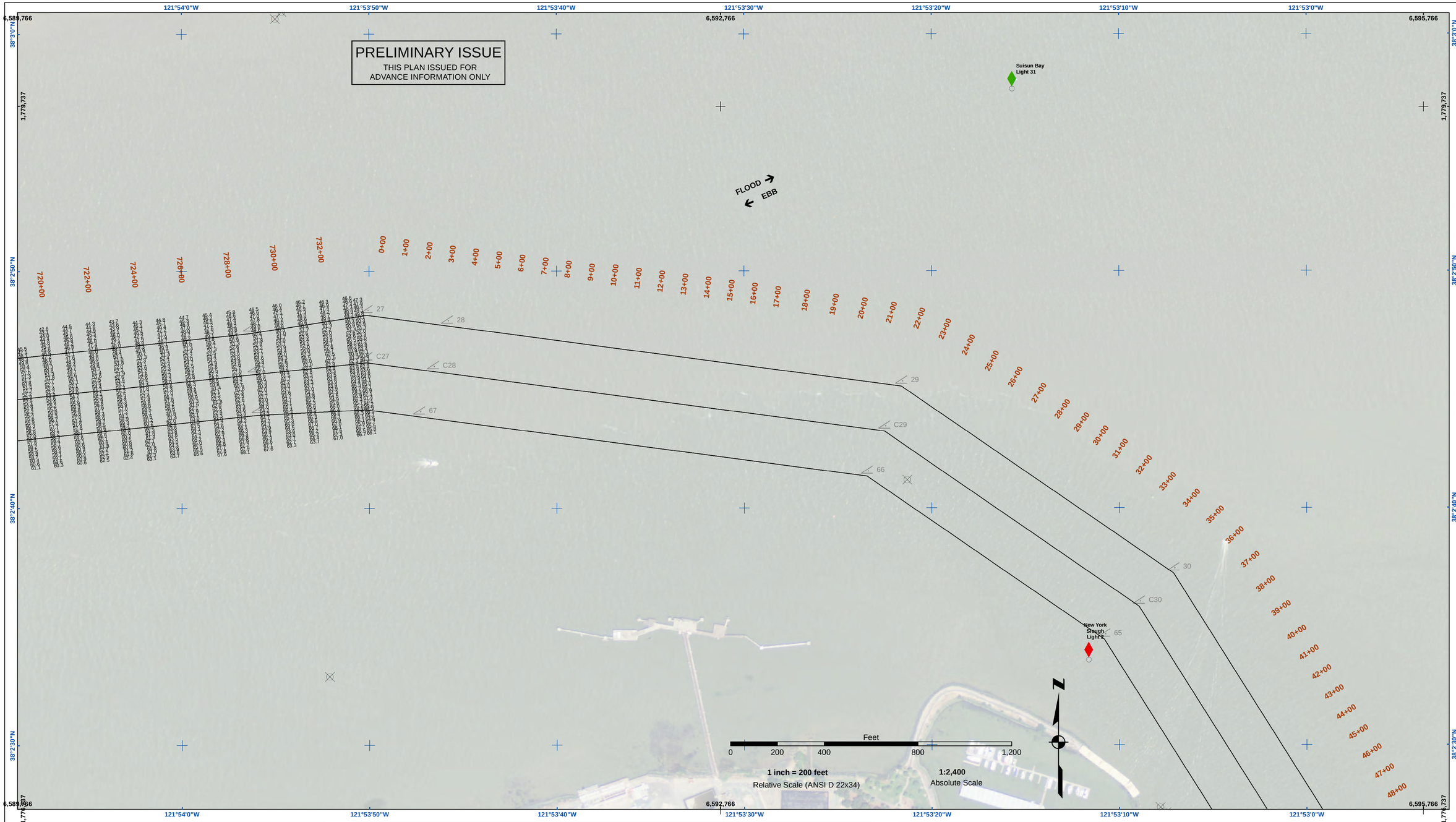
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

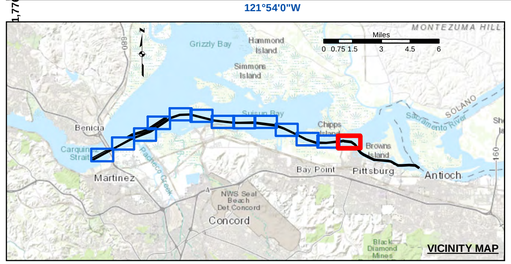
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 12 of 13





Federal Navigation Channel	Beacon, General	**Contours**
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*	-32
Submerged Wreck		-31
Angle Point		

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Piloted By: PDT	Designed by:	
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SUISUN BAY CHANNEL
CONDITION SURVEY
17-18 JANUARY 2023

Sheet Reference Number 13 of 13