



PRELIMINARY ISSUE
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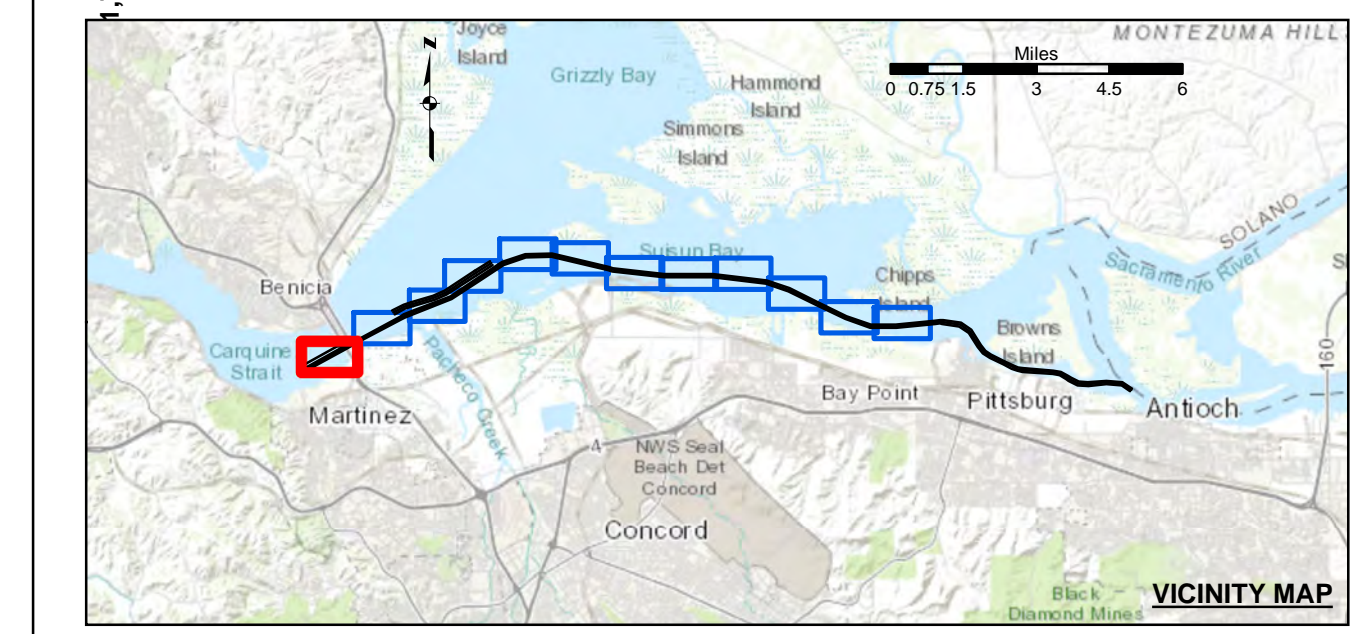
US Army Corps of Engineers
San Francisco District
450 Golden Gate Ave
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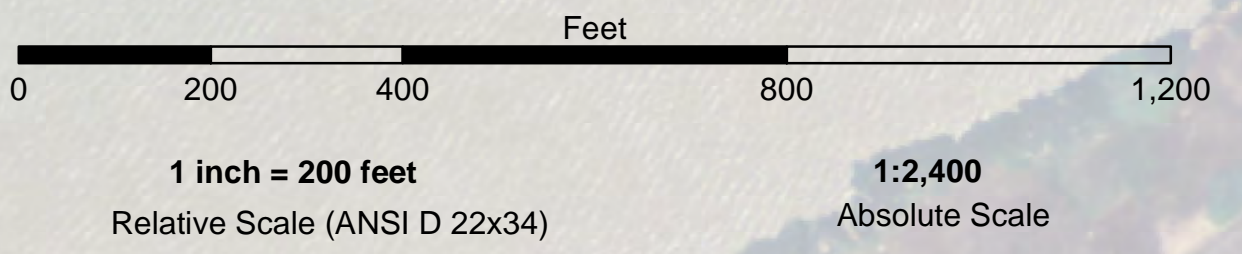
Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Sep 19, 2019
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Flattened by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
13-17 SEPTEMBER 2019

Sheet Reference Number
1 of 12

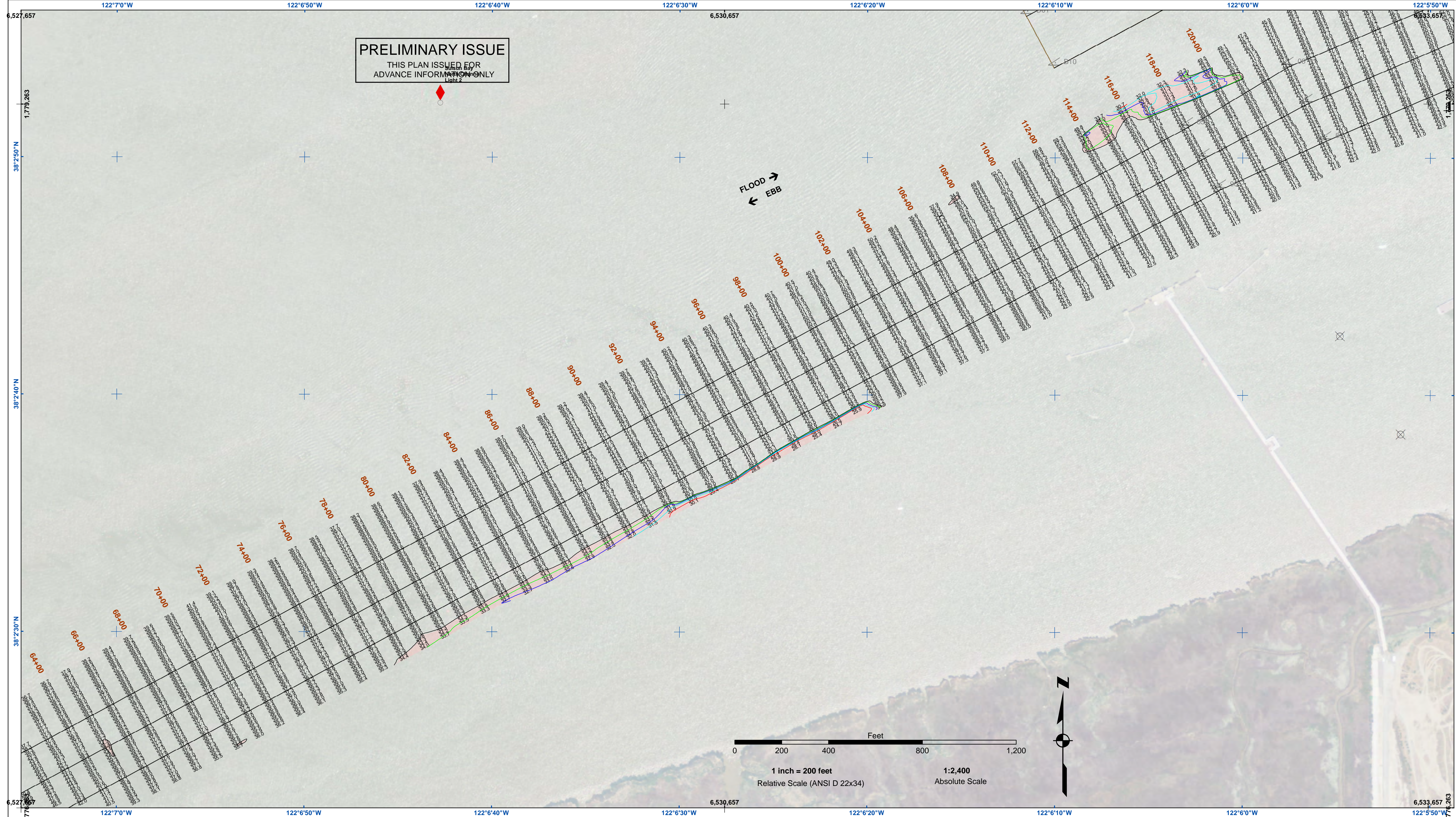


- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Contours**
- 35
- 34
- 33
- 32
- 31



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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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

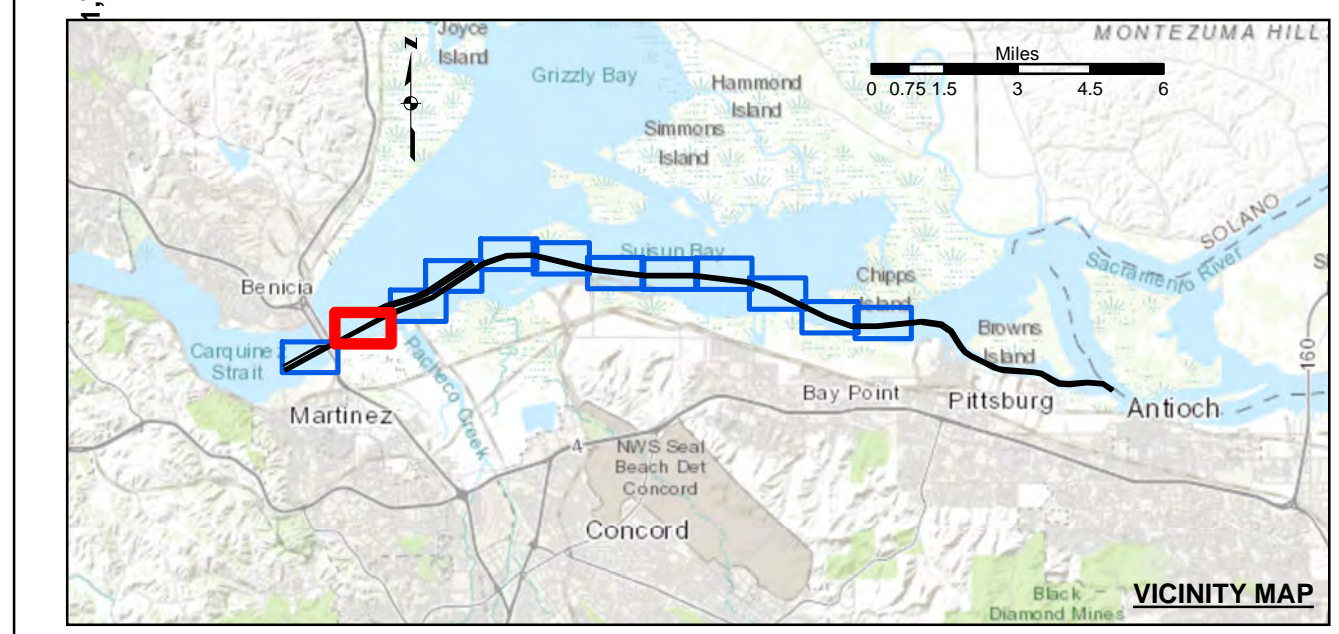


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← EBB



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



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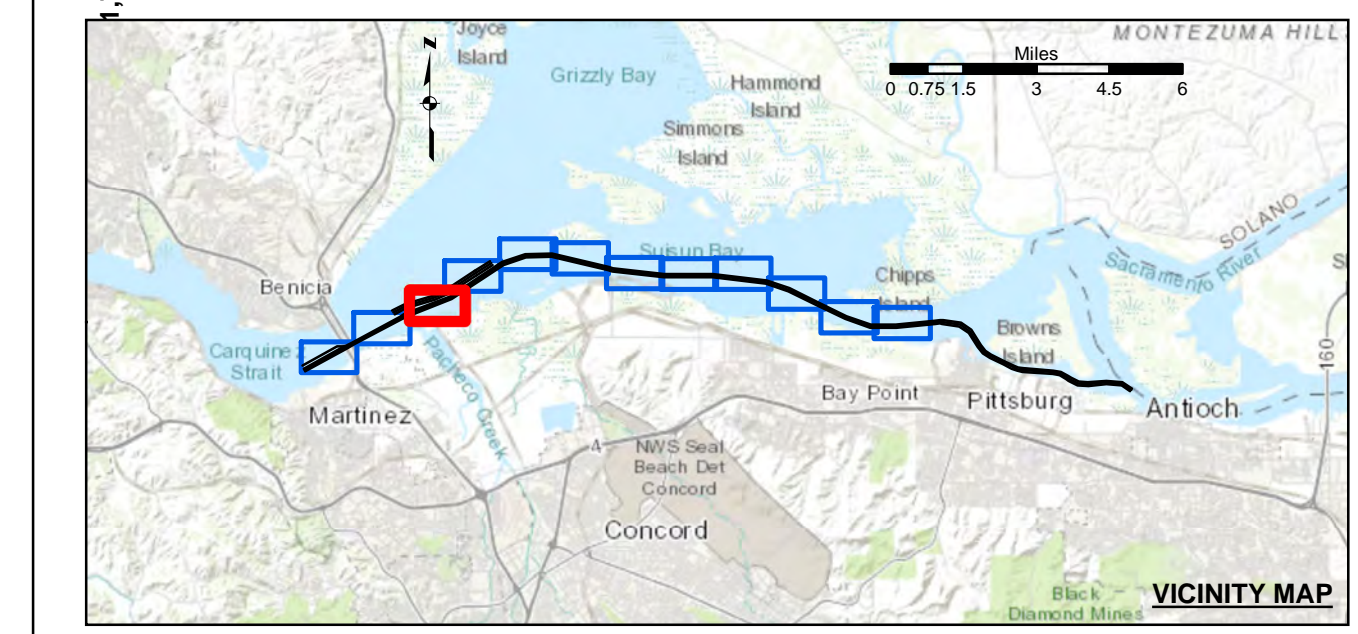
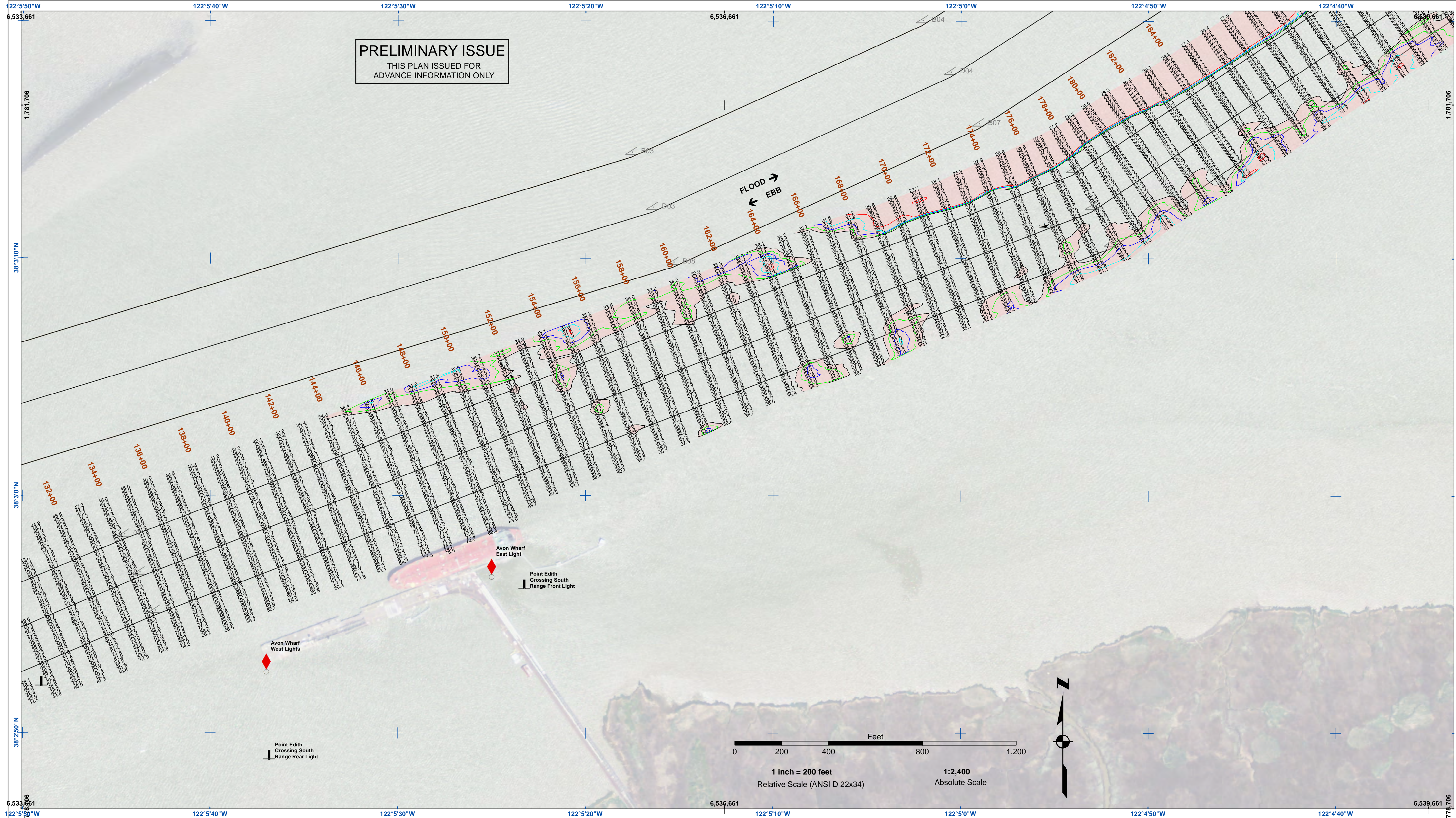
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Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	PDT

CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
13-17 SEPTEMBER 2019

Sheet Reference Number
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- 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**
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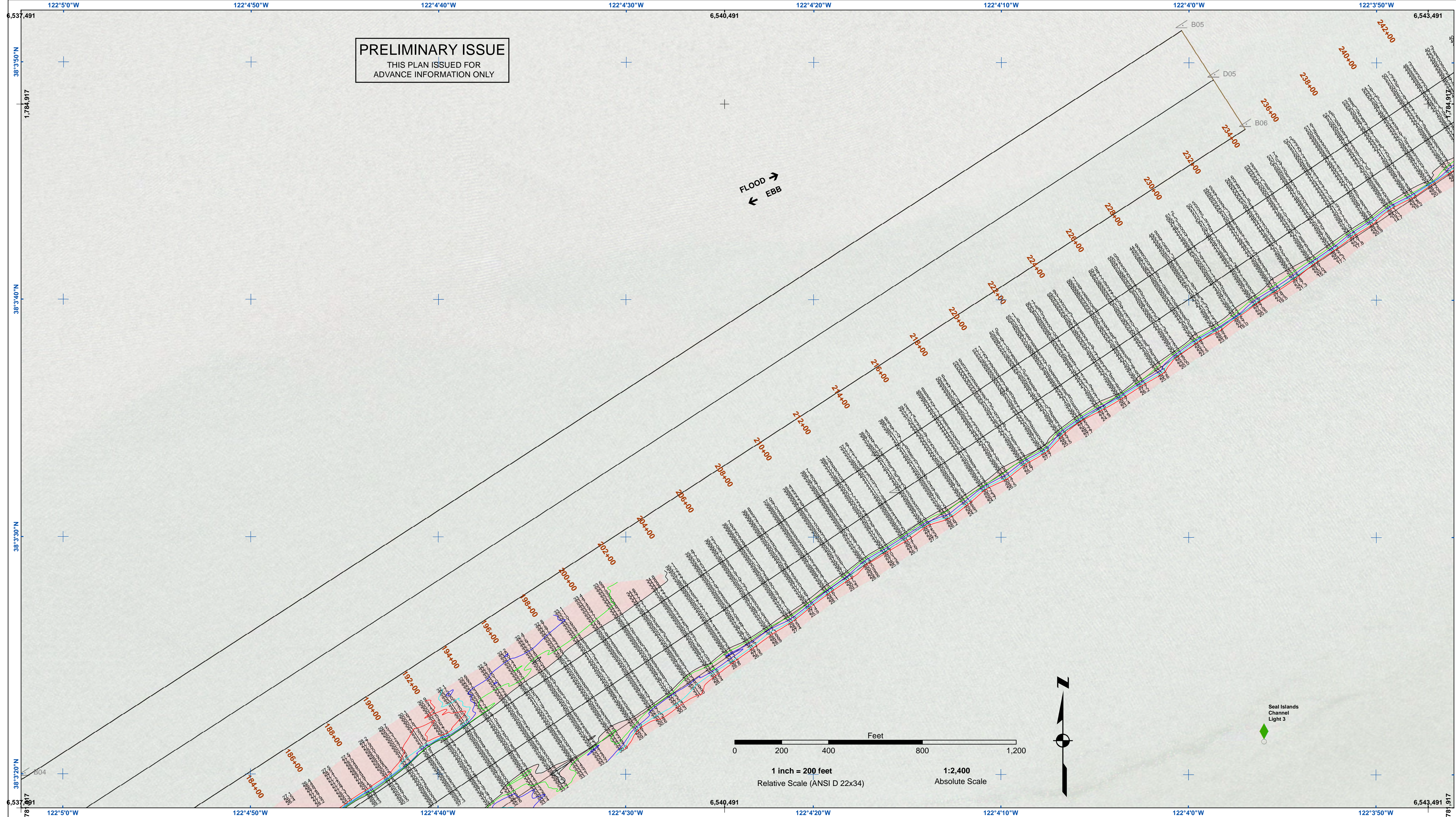
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Chart Date:	Sep 19, 2019
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT

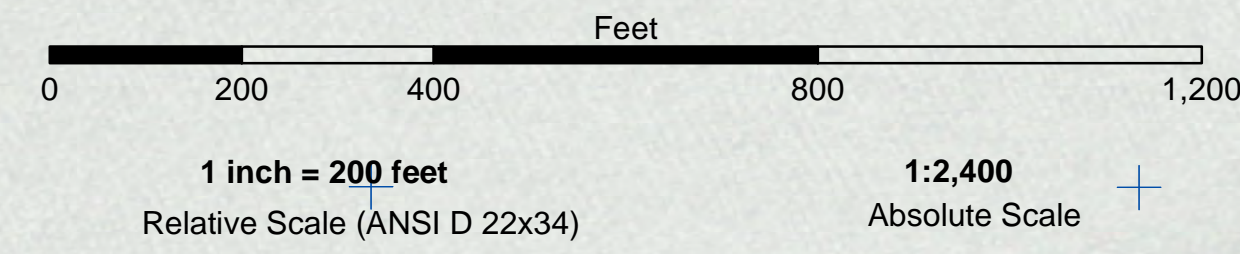
CALIFORNIA
CONTRA COSTA COUNTY
SUISUN BAY CHANNEL
CONDITION SURVEY
13-17 SEPTEMBER 2019

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

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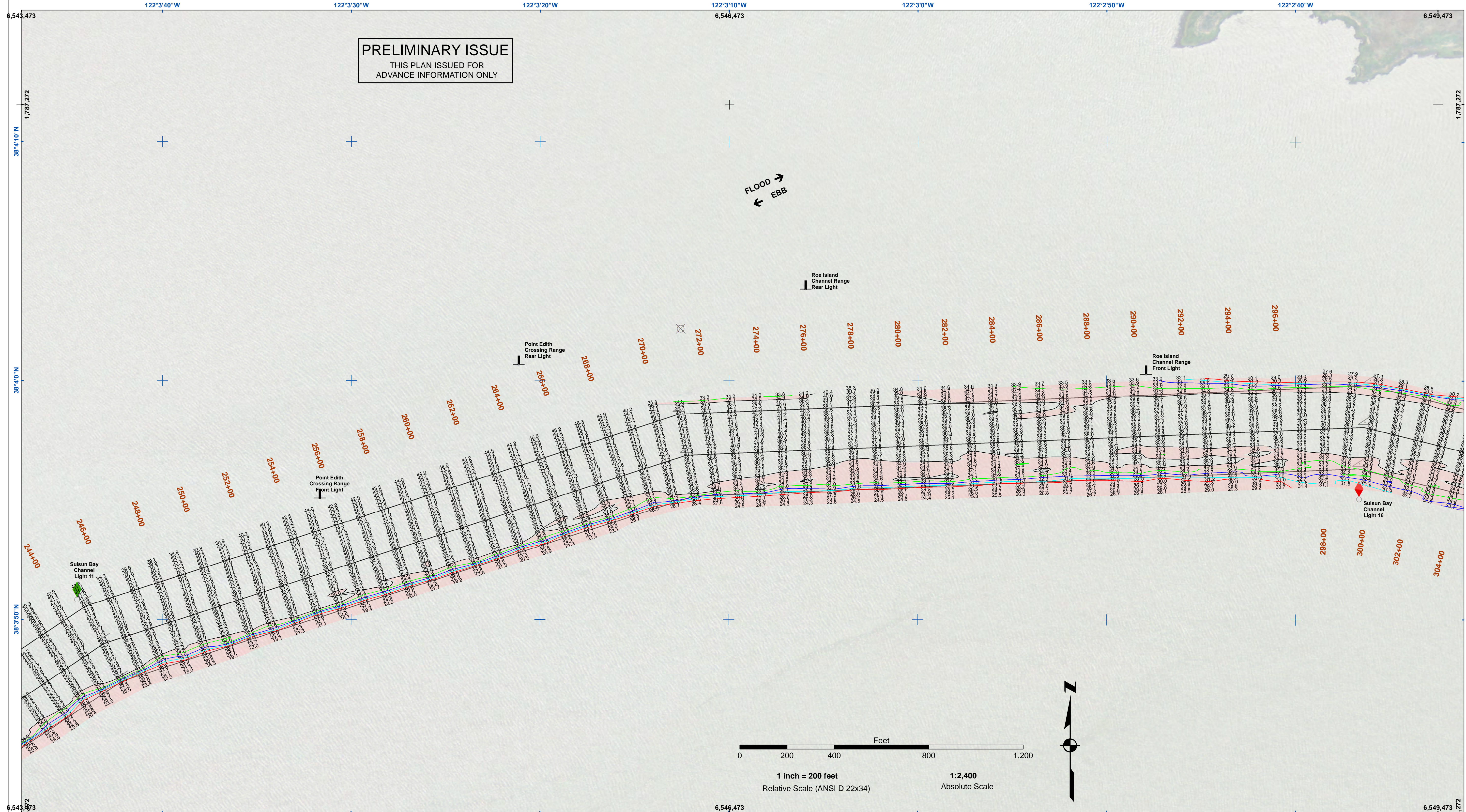
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Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	PDT

CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
13-17 SEPTEMBER 2019

Sheet Reference Number
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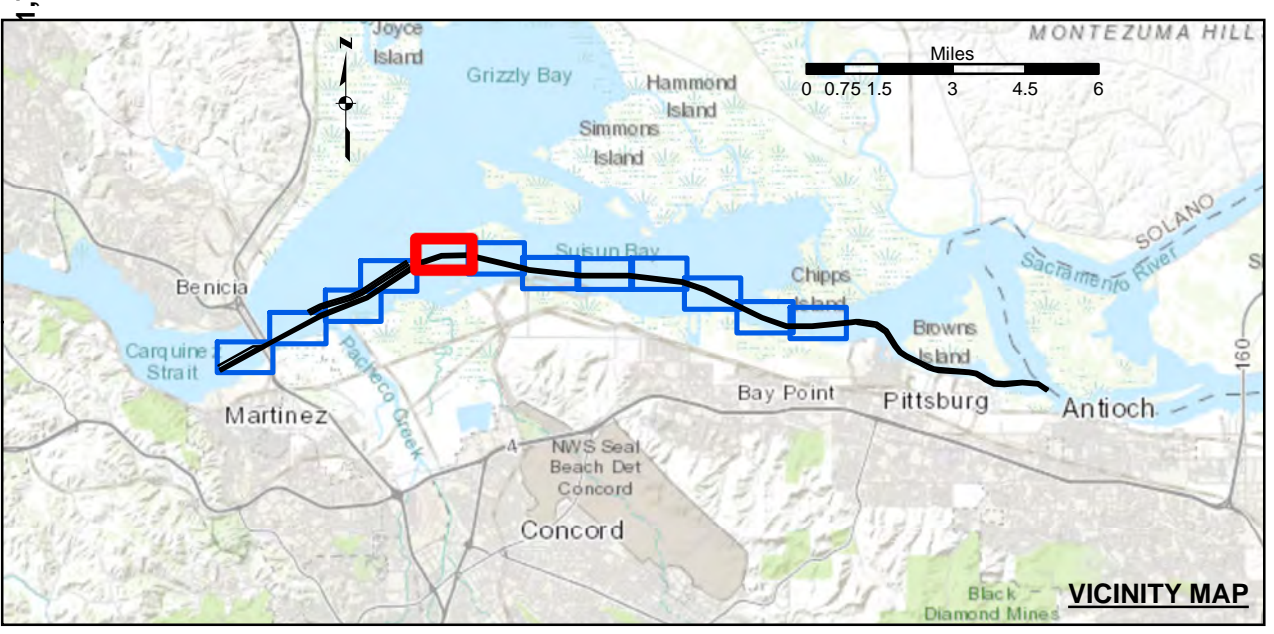
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Drawn by:	PDT

CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
13-17 SEPTEMBER 2019

Sheet Reference Number
5 of 12



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

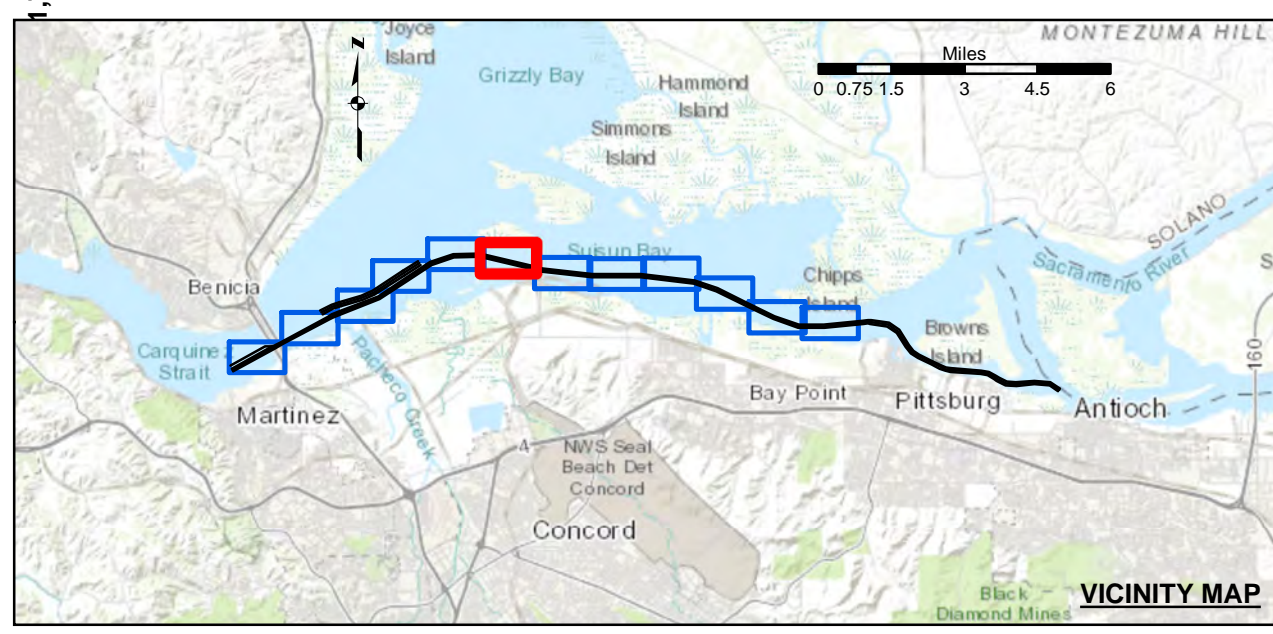
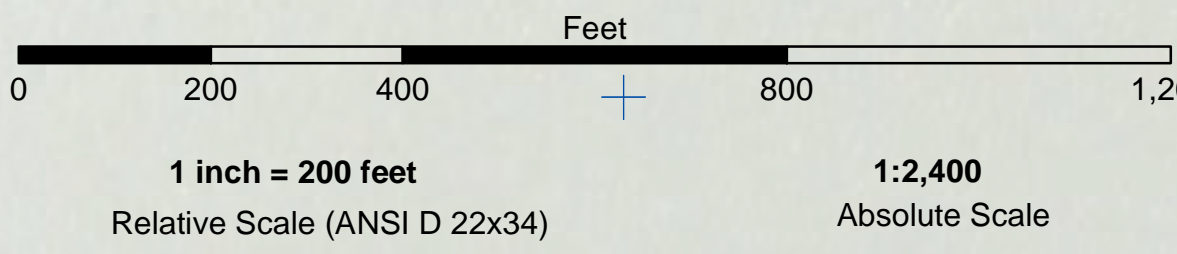
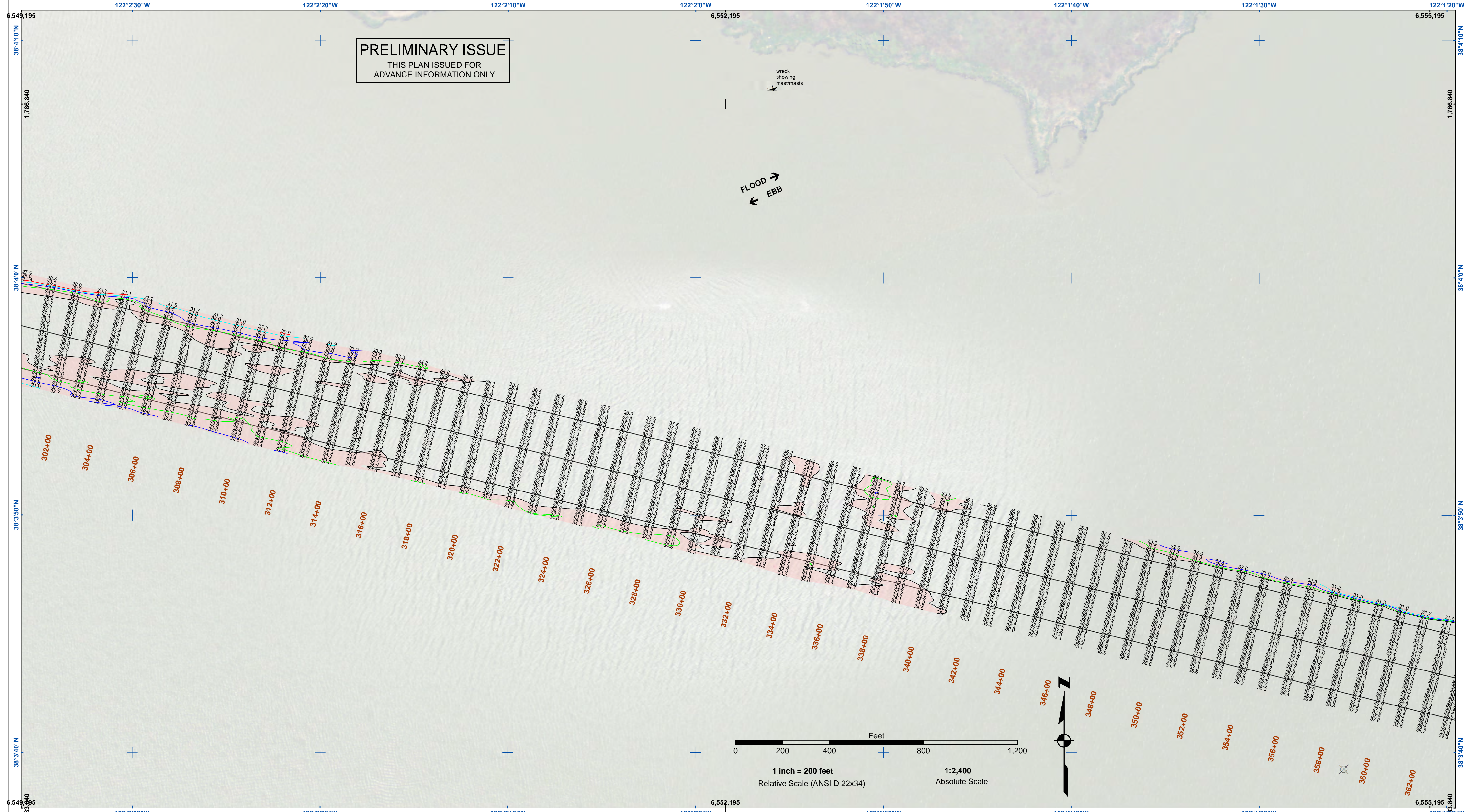
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- | | | |
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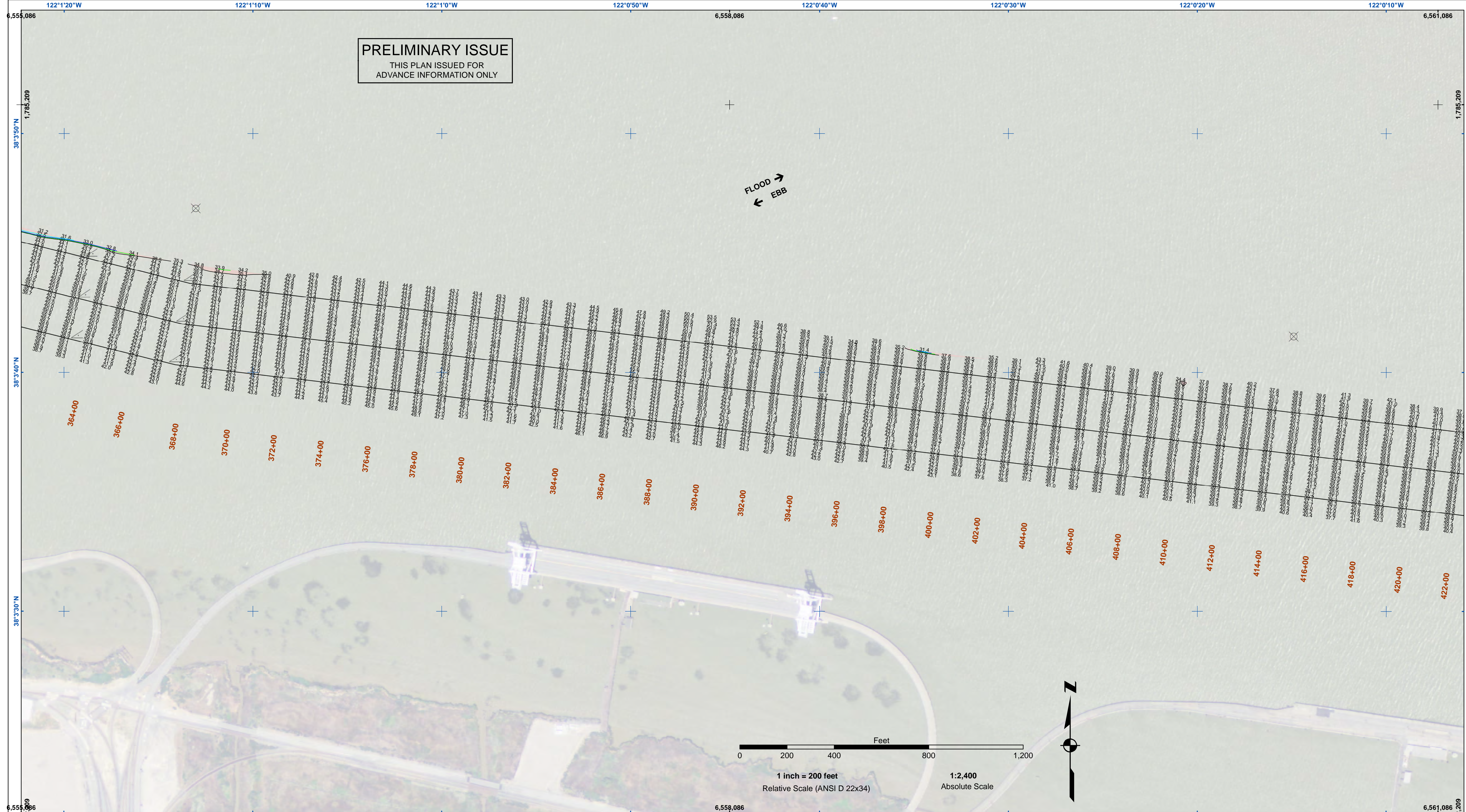
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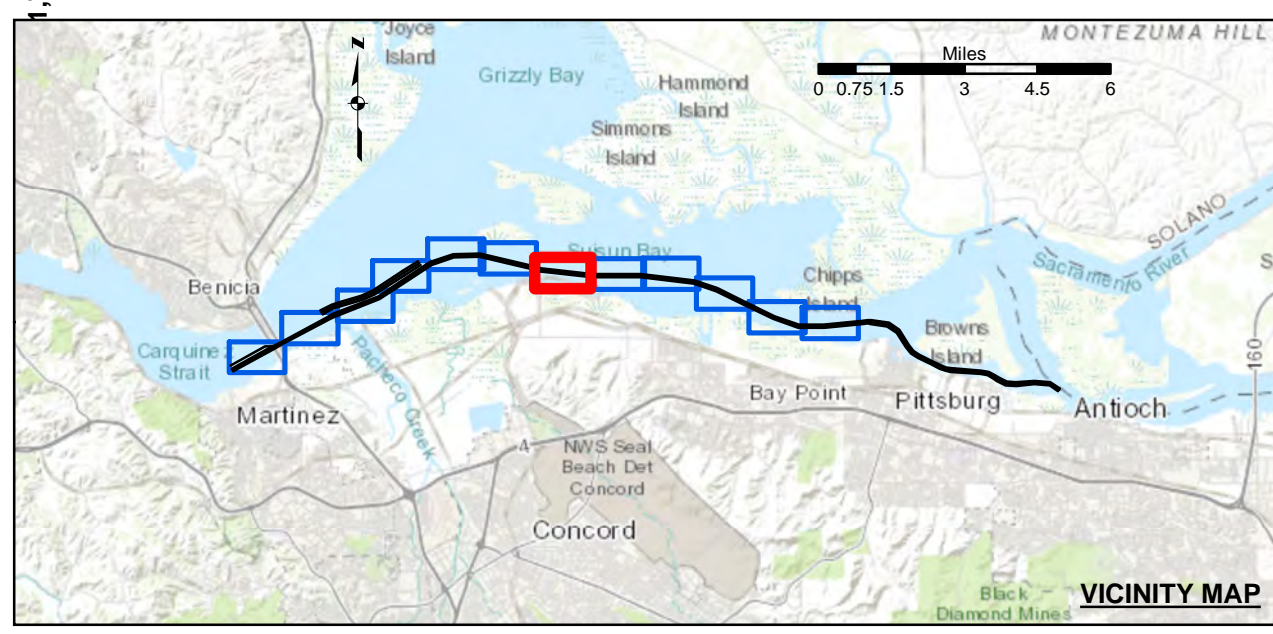
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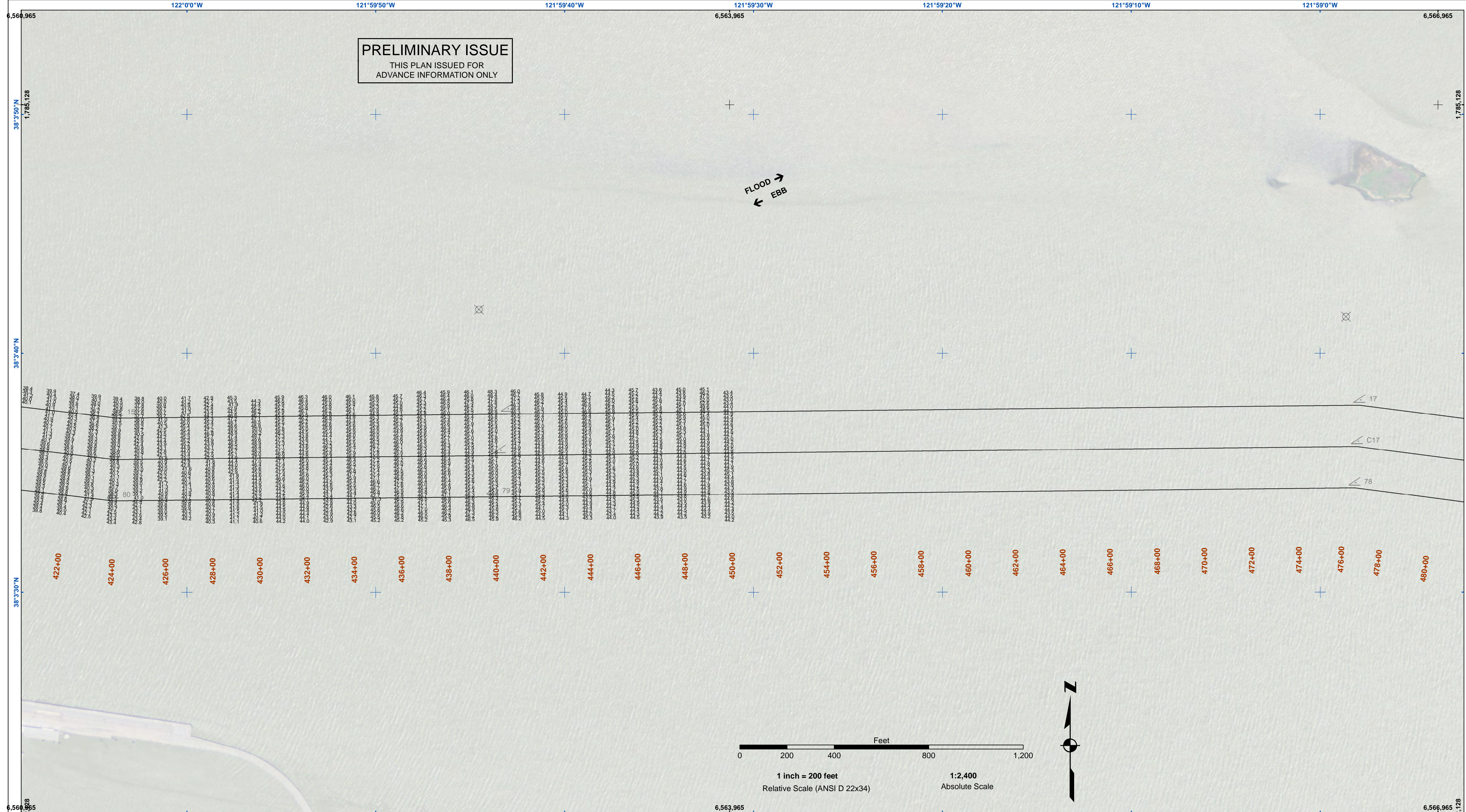


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| Federal Navigation Channel | Beacon, General | Contours |
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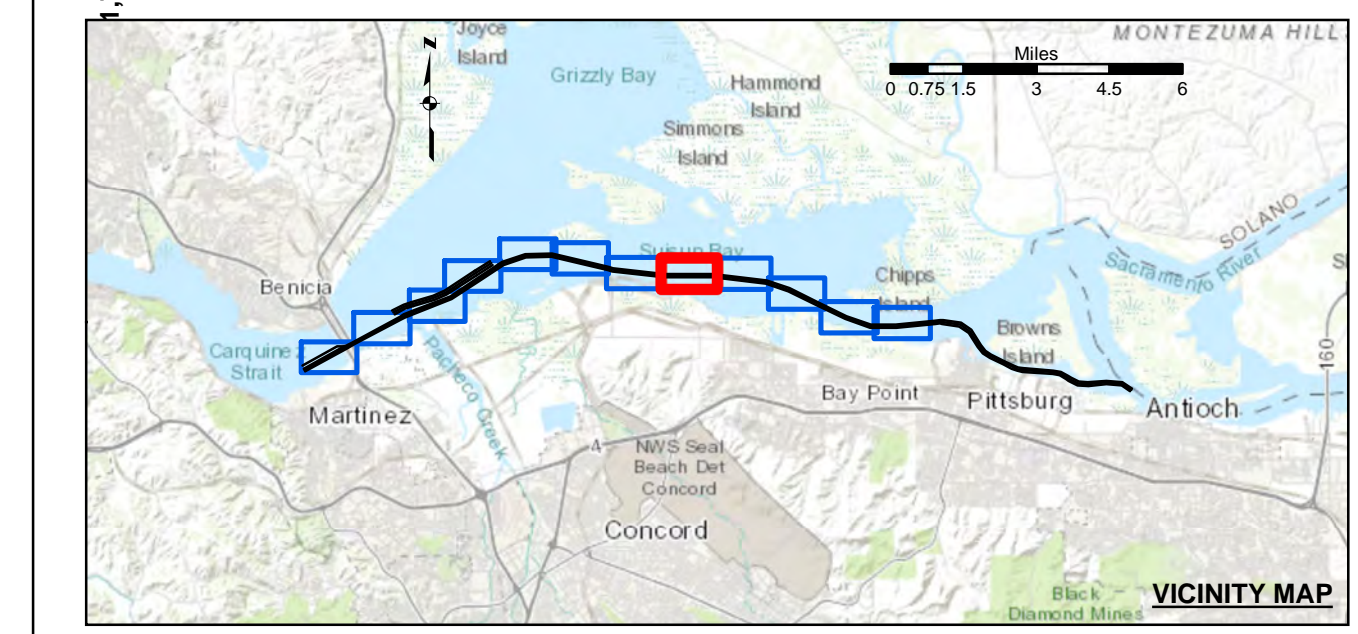
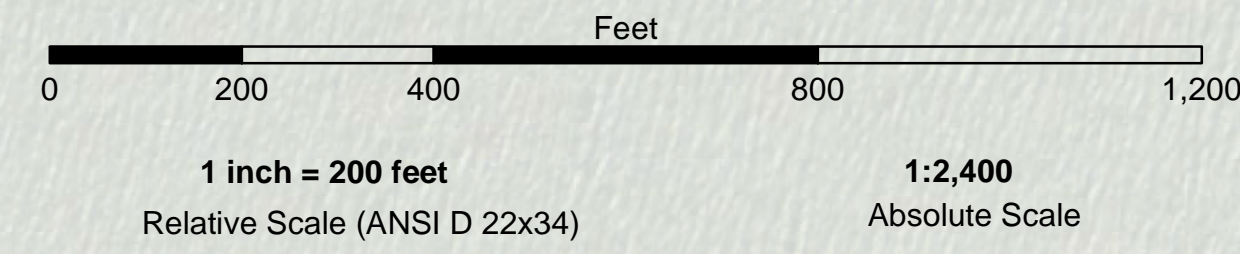
SURVEYED BY THE CORPS OF ENGINEERS.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
THE PROJECT DEPTH IS 35 FEET.
VERTICAL CONTROL: SUISUN BAY CHANNEL (LINES 00+00 TO 160+00) BENCHMARK "9" (1948), 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), 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

Sheet Reference Number
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PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

FLOOD →
← EBB



- | | | | | | |
|--|----------------------------|--|--------------------|-----------------|-----|
| | Federal Navigation Channel | | Beacon, General | Contours | |
| | Shoaling Area | | Obstruction Point | | |
| | Placement Area | | Navigation Buoy | | |
| | Anchorage Area | | Navigation Buoy | | |
| | Wreck Area | | Shoalest Sounding* | | |
| | Submerged Wreck | | | | -35 |
| | Angle Point | | | | -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.
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.
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(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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PREPARED UNDER THE DIRECTION OF JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Sep 19, 2019
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
13-17 SEPTEMBER 2019

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