

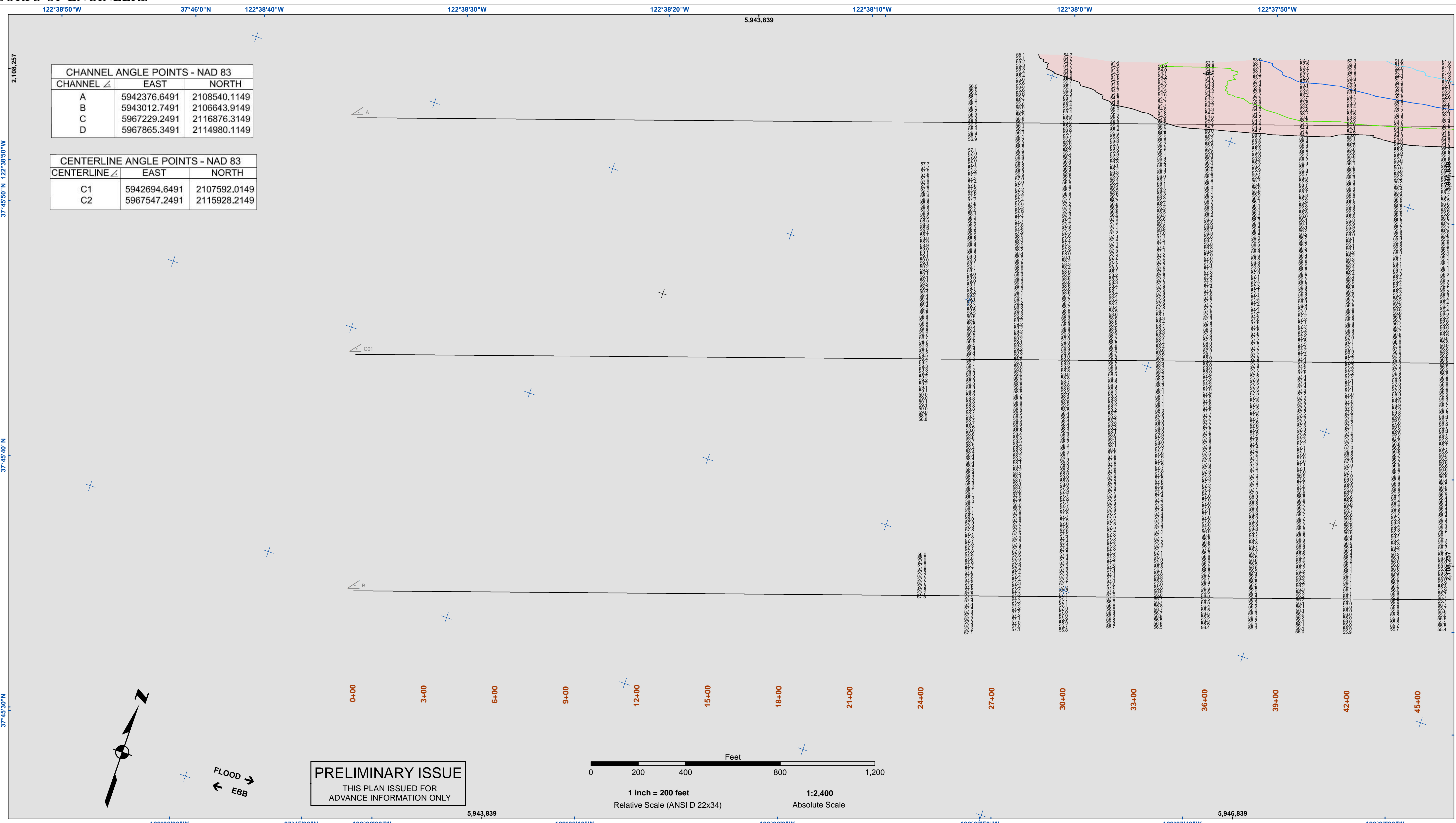


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Prepared Under the Direction of <b>TIMOTHY W. SHEBESTA</b> LT Colonel, C.E., District Engineer	Chart Date: Jul 20, 2023
Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

**SAN FRANCISCO BAY**  
**SAN FRANCISCO**  
**MAINSHIP CHANNEL**  
**CONDITION SURVEY**  
**23 JUNE - 05 JULY 2023**

**Sheet**  
**Number**  
**1 of 5**

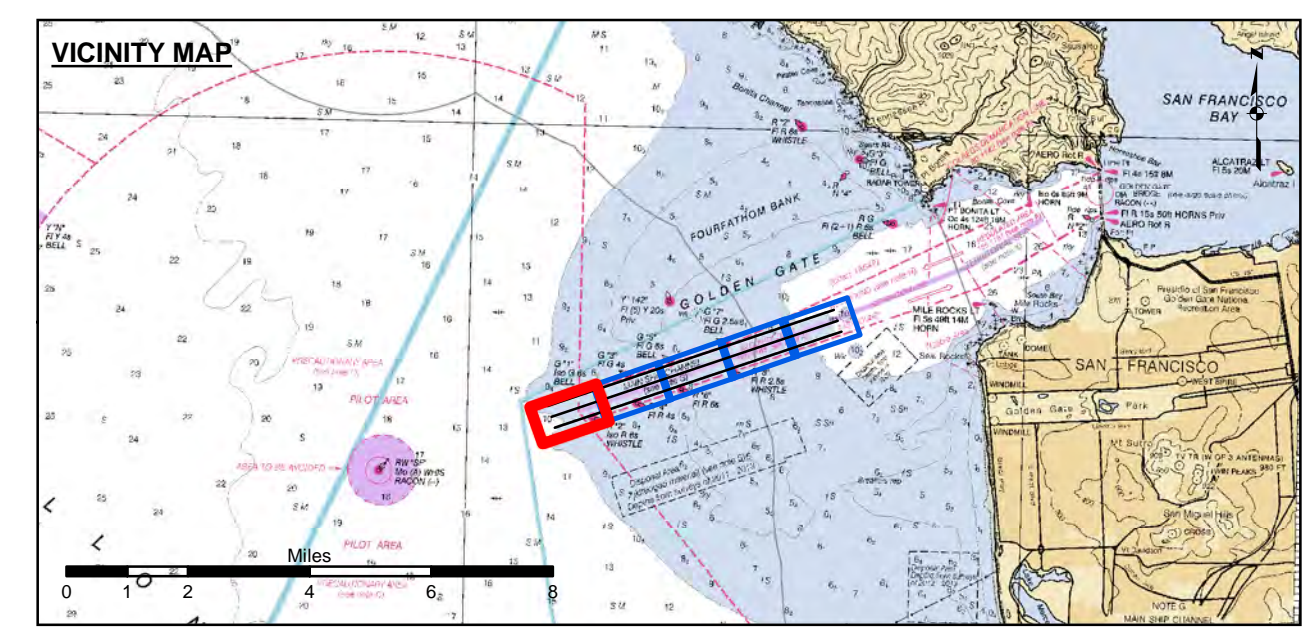


**CHANNEL ANGLE POINTS - NAD 83**

CHANNEL	EAST	NORTH
A	5942376.6491	2108540.1149
B	5943012.7491	2106643.9149
C	5967229.2491	2116876.3149
D	5967865.3491	2114980.1149

**CENTERLINE ANGLE POINTS - NAD 83**

CENTERLINE	EAST	NORTH
C1	5942694.6491	2107592.0149
C2	5967547.2491	2115928.2149



**PRELIMINARY ISSUE**  
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- |                            |                    |                  |
|----------------------------|--------------------|------------------|
| Federal Navigation Channel | Beacon, General    | Contour Lines 51 |
| Shoaling Area              | Obstruction Point  | Contour Lines 52 |
| Placement Area             | Navigation Buoy    | Contour Lines 53 |
| Anchorage Area             | Navigation Buoy    | Contour Lines 54 |
| Wreck Area                 | Shoalest Sounding* | Contour Lines 55 |
| Submerged Wreck            |                    |                  |
| Angle Point                |                    |                  |

**NOTES:**  
 HORIZONTAL COORDINATE SYSTEM:  
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SURVEYED BY THE CORPS OF ENGINEERS.

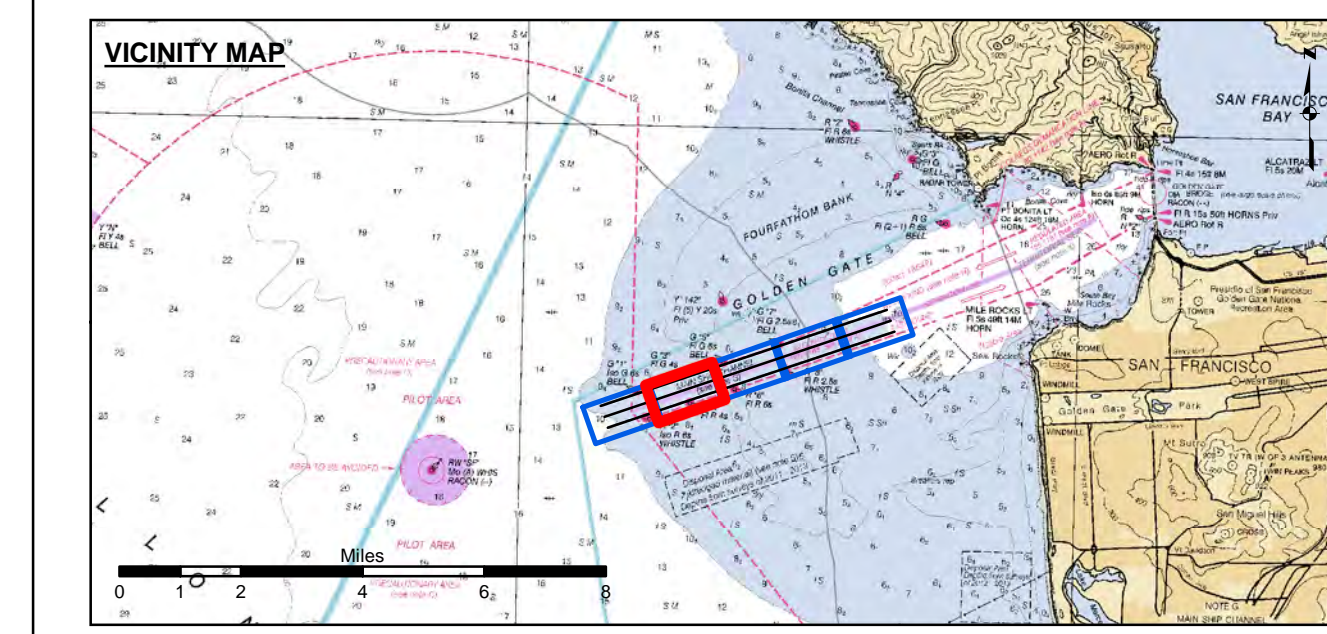
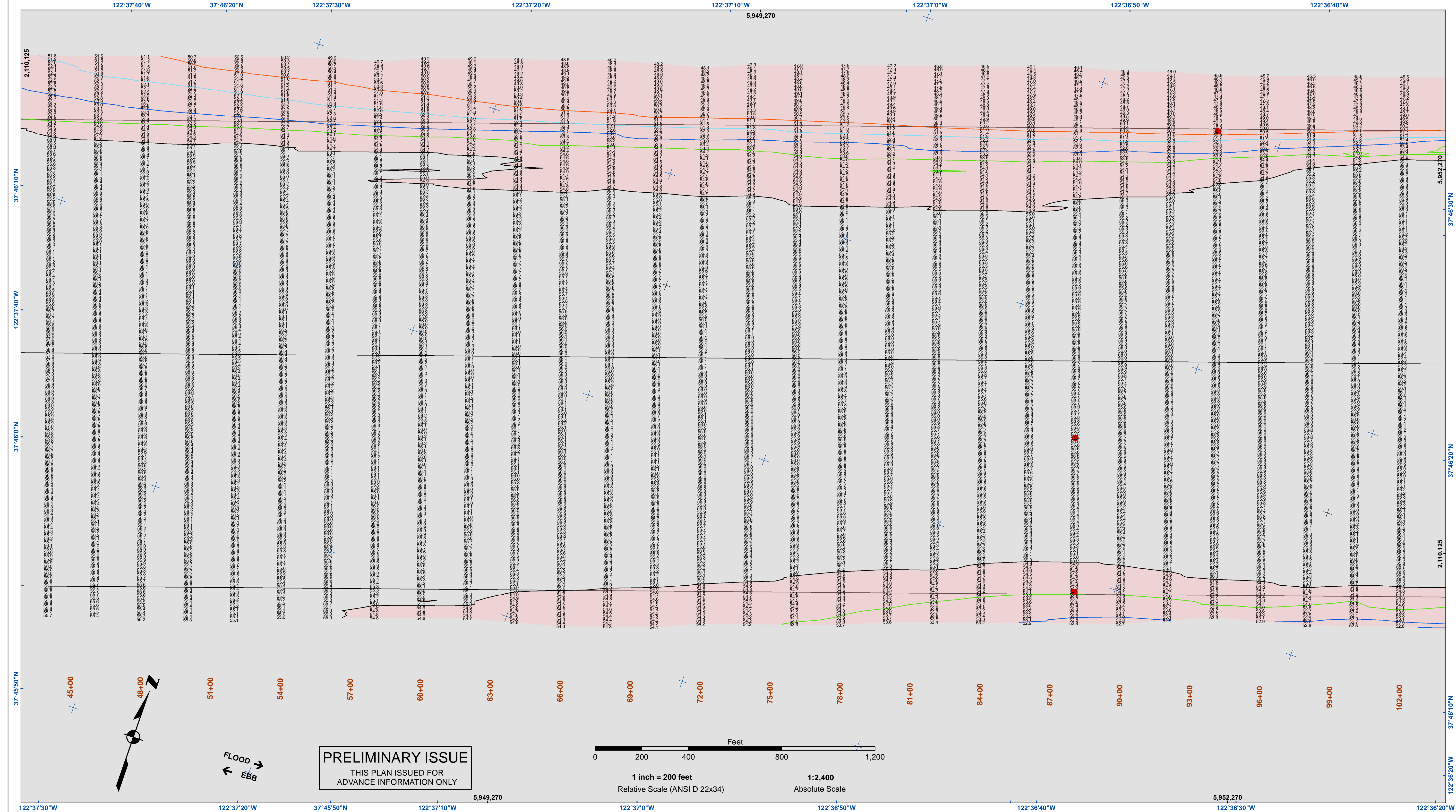
PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.

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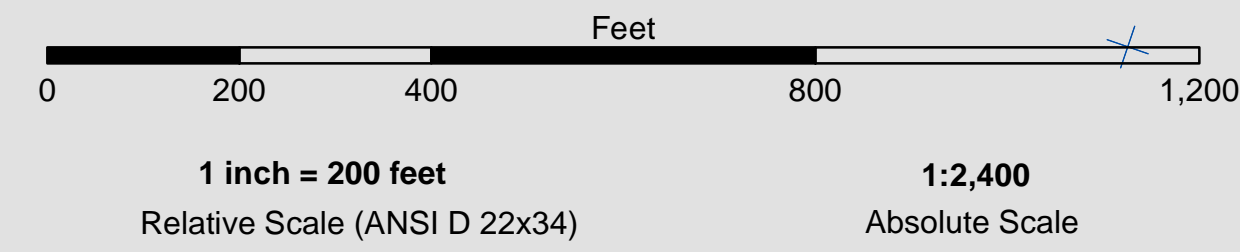
VERTICAL CONTROL:  
 BENCHMARK "Q-481" USC&GS DISK ELEV. 19.54 FT MLLW.

HORIZONTAL CONTROL:  
 COAST GUARD D-BEACON.





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- |  |                            |  |                    |                      |    |
|--|----------------------------|--|--------------------|----------------------|----|
|  | Federal Navigation Channel |  | Beacon, General    | <b>Contour Lines</b> |    |
|  | Shoaling Area              |  | Obstruction Point  |                      |    |
|  | Placement Area             |  | Navigation Buoy    |                      |    |
|  | Anchorage Area             |  | Navigation Buoy    |                      |    |
|  | Wreck Area                 |  | Shoalest Sounding* |                      |    |
|  | Submerged Wreck            |  |                    |                      | 51 |
|  | Angle Point                |  |                    |                      | 52 |
|  |                            |  |                    |                      | 53 |
|  |                            |  |                    |                      | 54 |
|  |                            |  |                    |                      | 55 |

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Prepared Under the Direction of <b>TIMOTHY W. SHEBESTA</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Jul 20, 2023
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

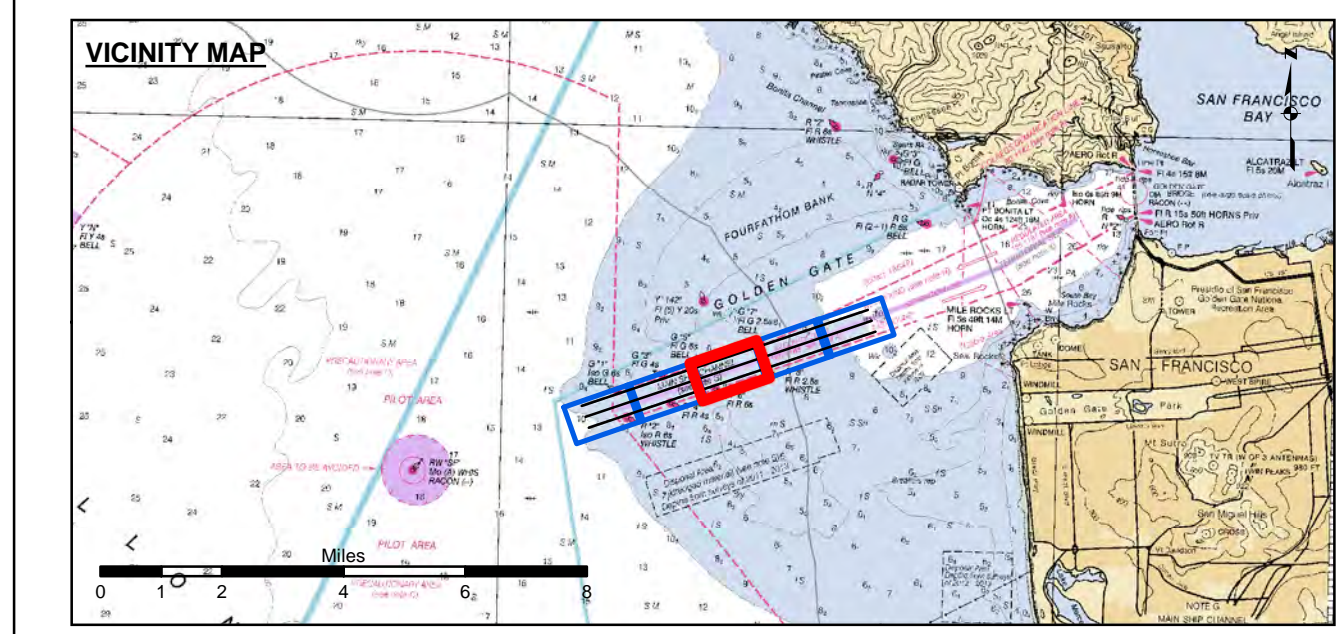
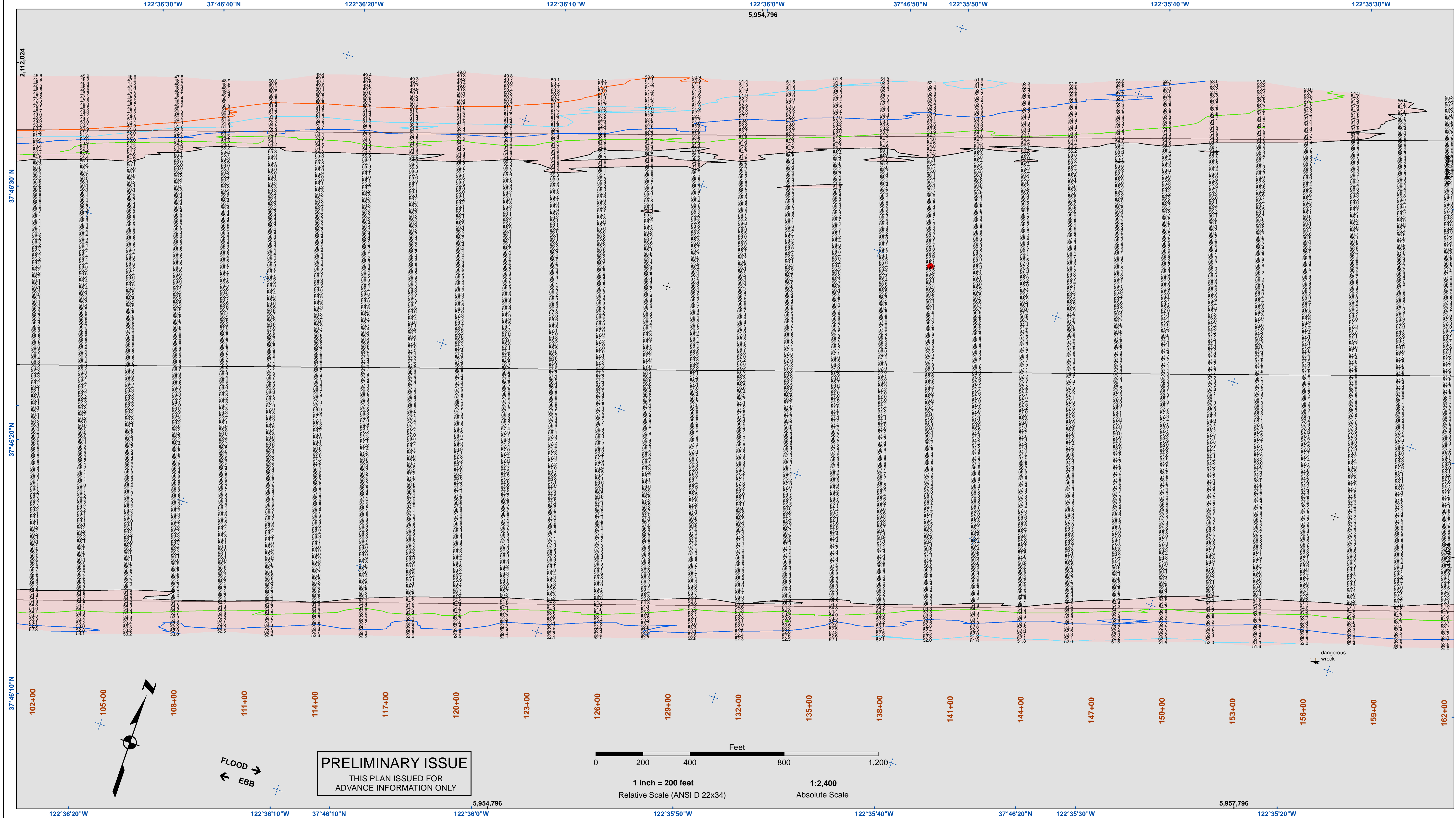
**SAN FRANCISCO BAY**  
**SAN FRANCISCO**  
**MAINSHIP CHANNEL**  
**CONDITION SURVEY**  
 23 JUNE - 05 JULY 2023

**Sheet Reference Number**  
**2 of 5**

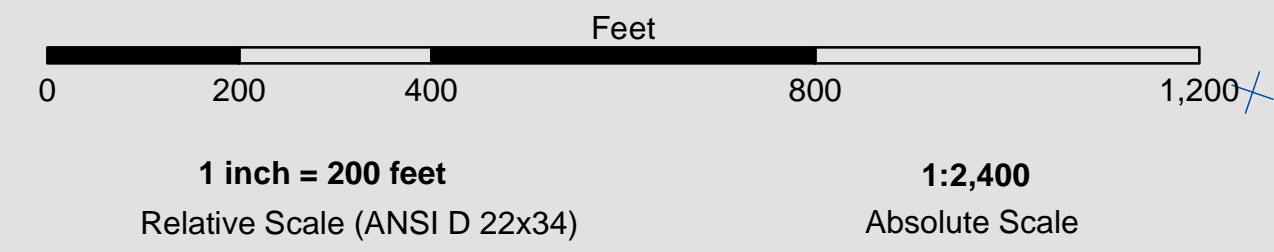




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|  | Placement Area             |  | Navigation Buoy    |                      |    |
|  | Anchorage Area             |  | Navigation Buoy    |                      |    |
|  | Wreck Area                 |  | Shoalest Sounding* |                      |    |
|  | Submerged Wreck            |  |                    |                      | 51 |
|  | Angle Point                |  |                    |                      | 52 |
|  |                            |  |                    |                      | 53 |
|  |                            |  |                    |                      | 54 |
|  |                            |  |                    |                      | 55 |

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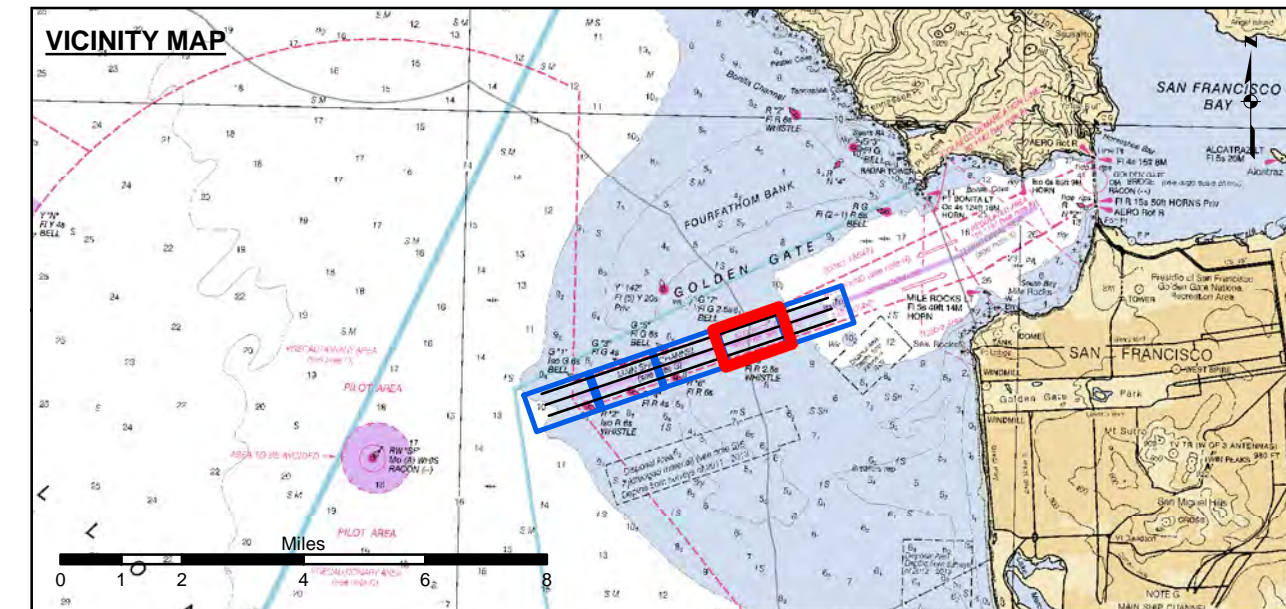
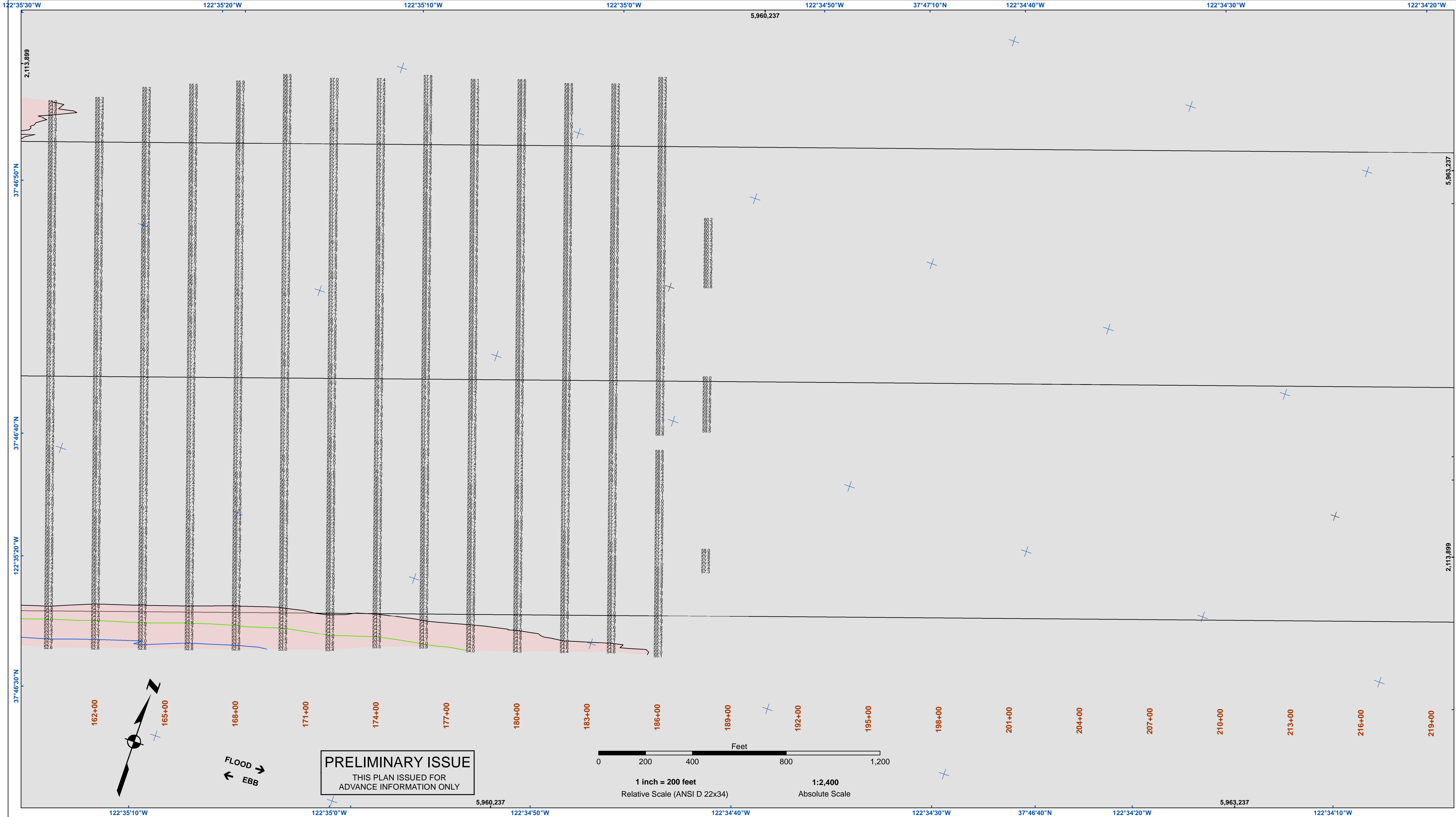
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Prepared Under the Direction of <b>TIMOTHY W. SHEBESTA</b> LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Jul 20, 2023
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Designed by:
Approved: Chief, Construction Branch	Drawn by: PDT	Drawn by: PDT

CALIFORNIA  
 SAN FRANCISCO BAY  
**SAN FRANCISCO MAINSHIP CHANNEL**  
 CONDITION SURVEY  
 23 JUNE - 05 JULY 2023

**Sheet Reference Number**  
 3 of 5





- |  |                            |  |                    |                      |  |    |
|--|----------------------------|--|--------------------|----------------------|--|----|
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Submitted: Hydro Survey Team Leader	Plotted By:	Jul 20, 2023
Recommended: Chief, Hydro Survey Section	Checked By:	Designed by:
Approved: Chief, Construction Branch	PDT	Drawn by:
	PDT	PDT

CALIFORNIA  
**SAN FRANCISCO**  
**MAINSHIP CHANNEL**  
**CONDITION SURVEY**  
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