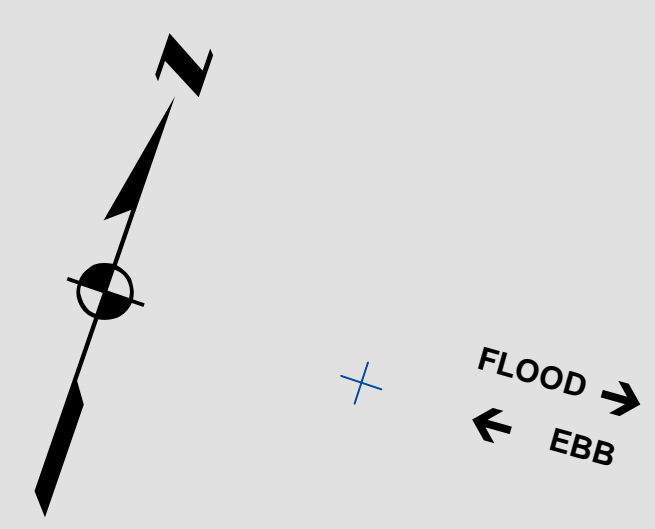


CHANNEL ANGLE POINTS - NAD 83

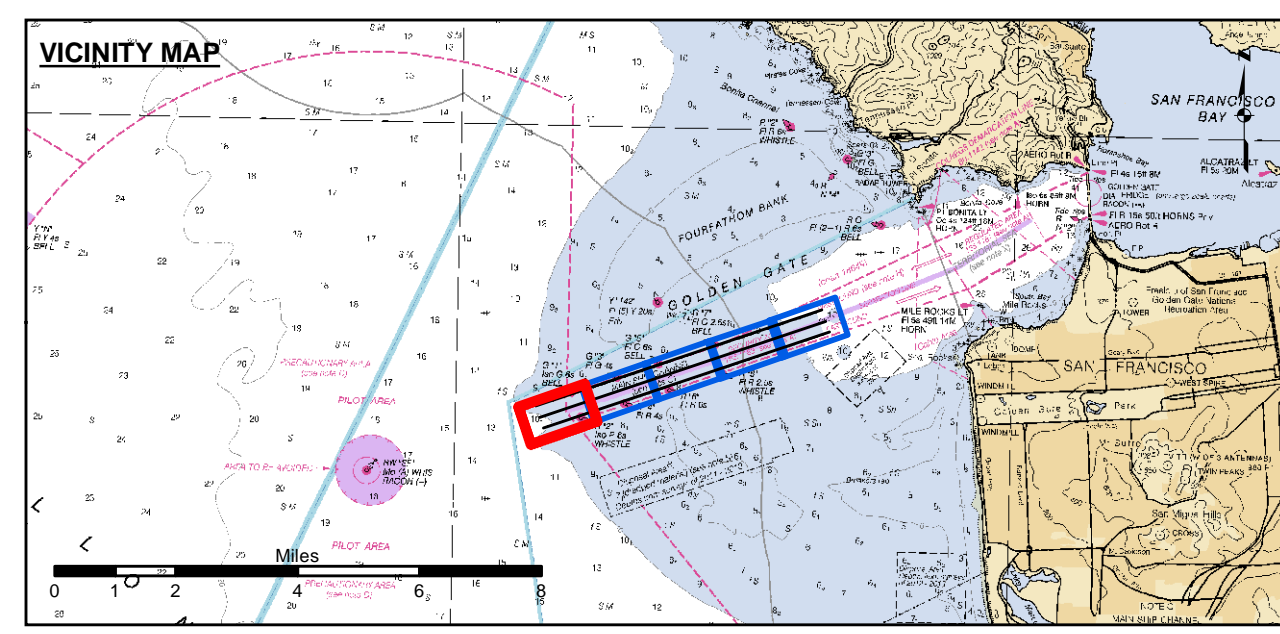
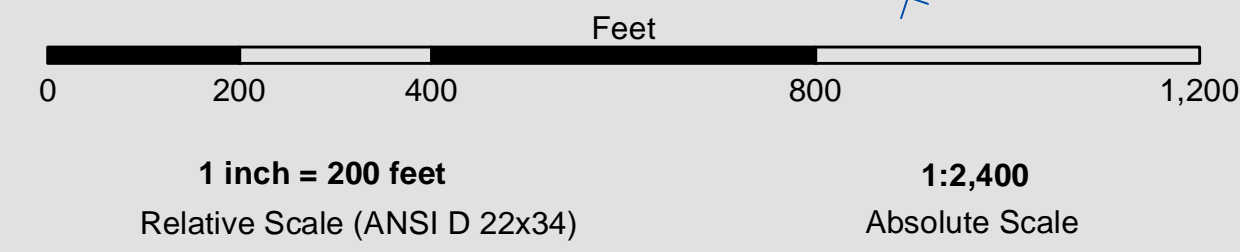
CHANNEL ∠	EAST	NORTH
A	5942376.6491	2108540.1149
B	5943012.7491	2106643.9149
C	5967229.2491	2116876.3149
D	5967865.3491	2114980.1149

CENTERLINE ANGLE POINTS - NAD 83

CENTERLINE ∠	EAST	NORTH
C1	5942694.6491	2107592.0149
C2	5967547.2491	2115928.2149



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



- 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*
- Contour Lines**
- 51
 - 52
 - 53
 - 54
 - 55

NOTES:
HORIZONTAL COORDINATE SYSTEM:
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VERTICAL CONTROL:
BENCHMARK "Q-481" US&GS DISK ELEV. 19.54 FT MLLW.
HORIZONTAL CONTROL:
COAST GUARD D-BEACON.



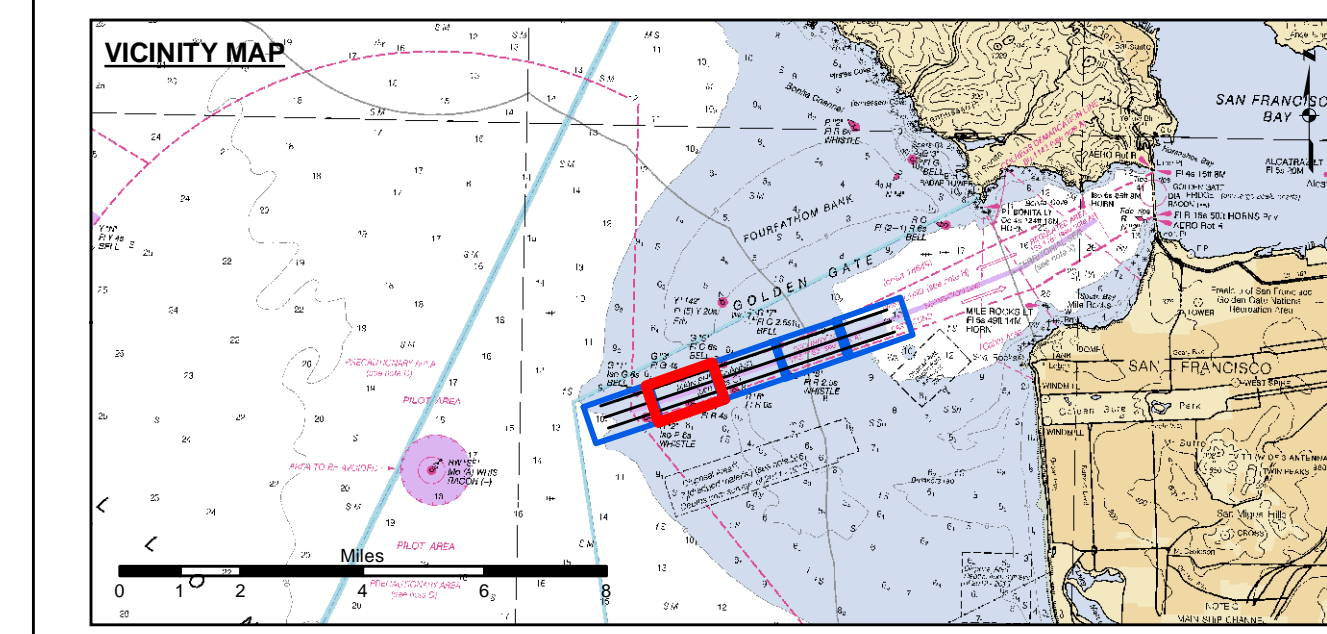
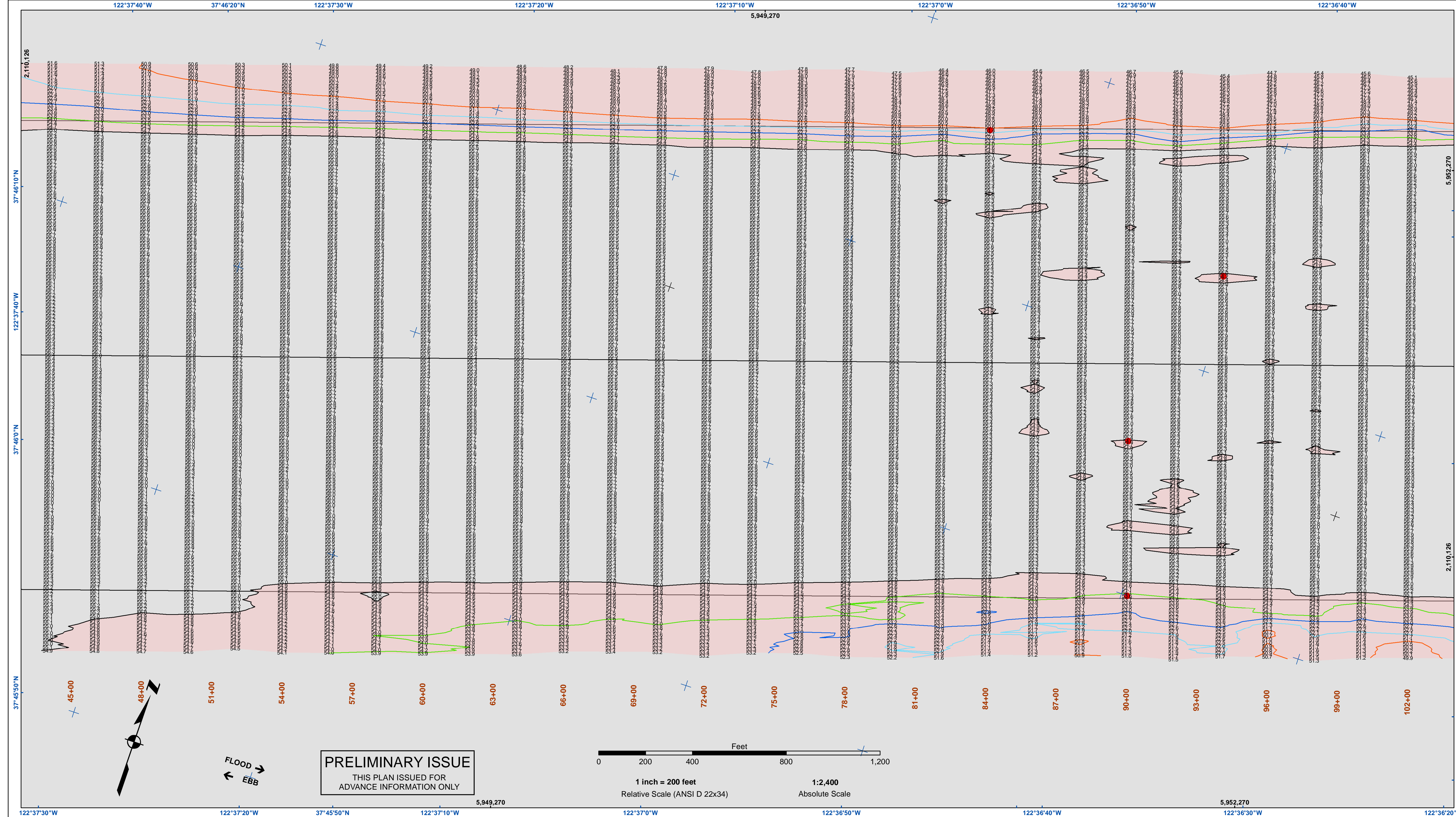
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PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

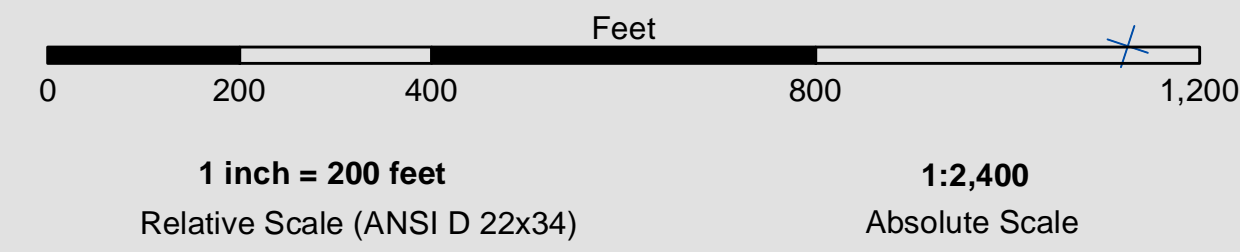
Activity	By	Date
Surveyed By	Kevin P. Arnett	Jan 31, 2023
Plotted By	PDT	
Checked By	PDT	
Drawn By	PDT	

SAN FRANCISCO BAY
SAN FRANCISCO
MAINSHIP CHANNEL
CONDITION SURVEY
06 DECEMBER 2022

Sheet Reference Number
1 of 5



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



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

NOTES:
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VERTICAL CONTROL:
BENCHMARK "Q-481" USCGS DISK ELEV. 19.54 FT MLLW.
HORIZONTAL CONTROL:
COAST GUARD D-BEACON.

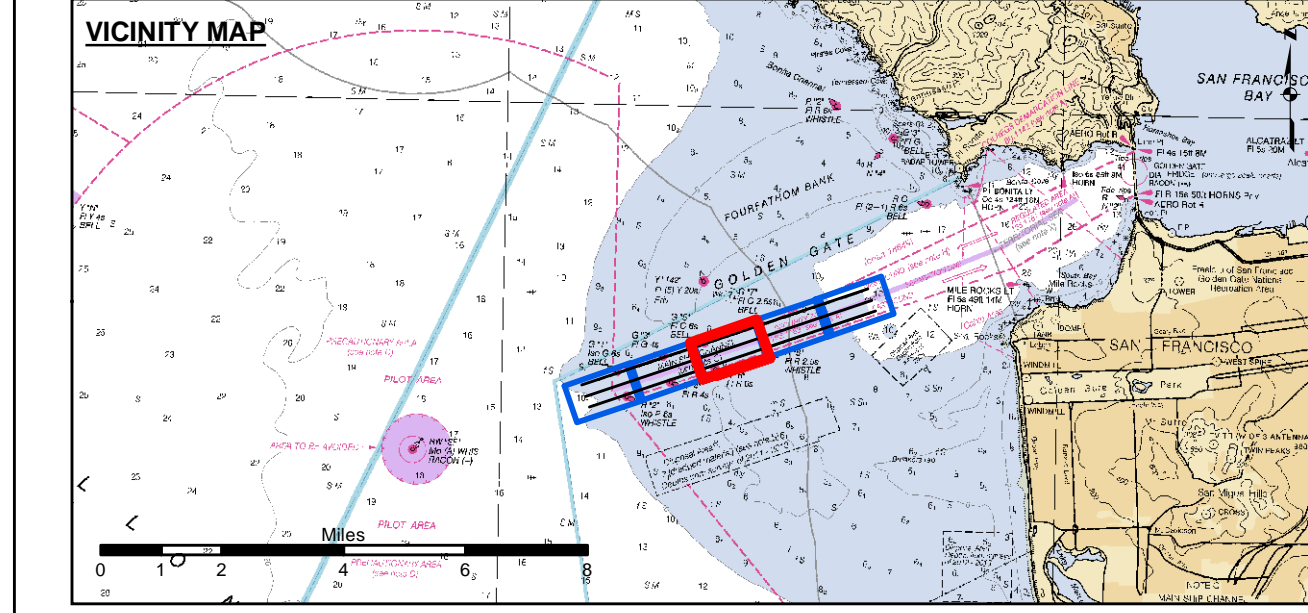
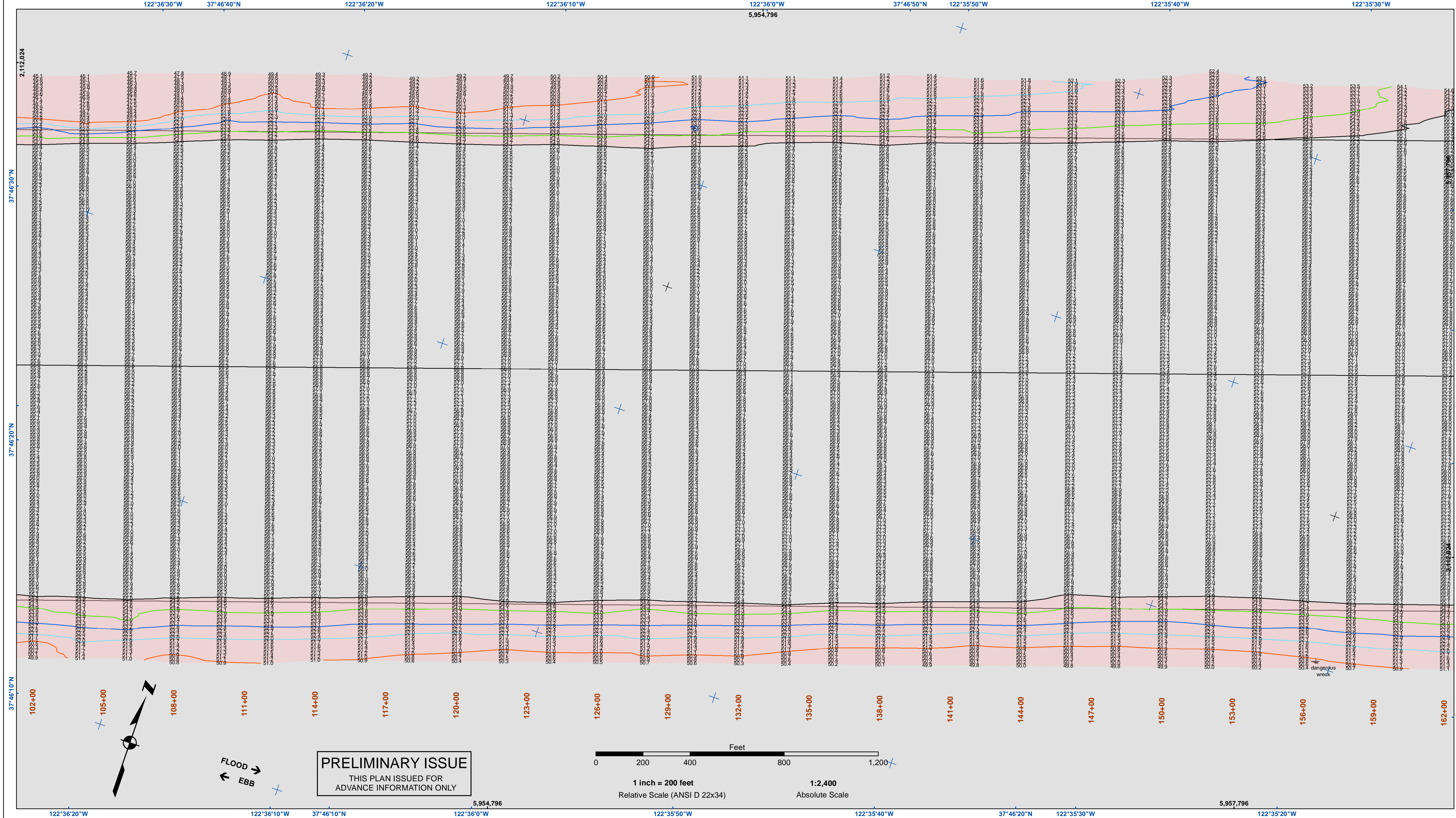
US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

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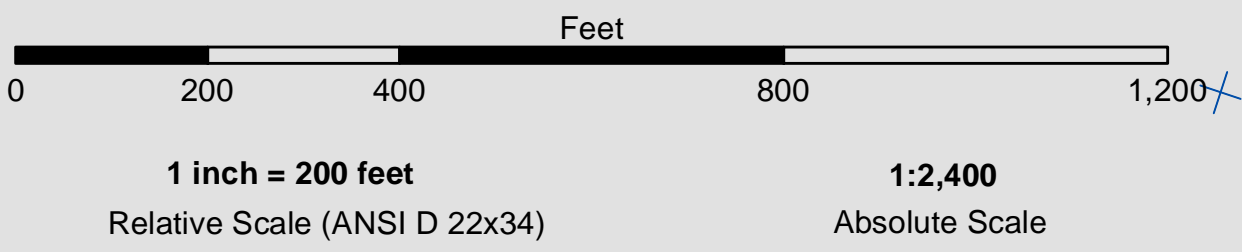
PREPARED UNDER THE DIRECTION OF KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jan 31, 2023
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	PDT

SAN FRANCISCO
SAN FRANCISCO BAY
MAINSHIP CHANNEL
CONDITION SURVEY
06 DECEMBER 2022

Sheet Reference Number
2 of 5



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



- | | | |
|----------------------------|--------------------|----------------------|
| Federal Navigation Channel | Beacon, General | Contour Lines |
| 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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*SHOALEST SOUNDING PER QUARTER PER REACH

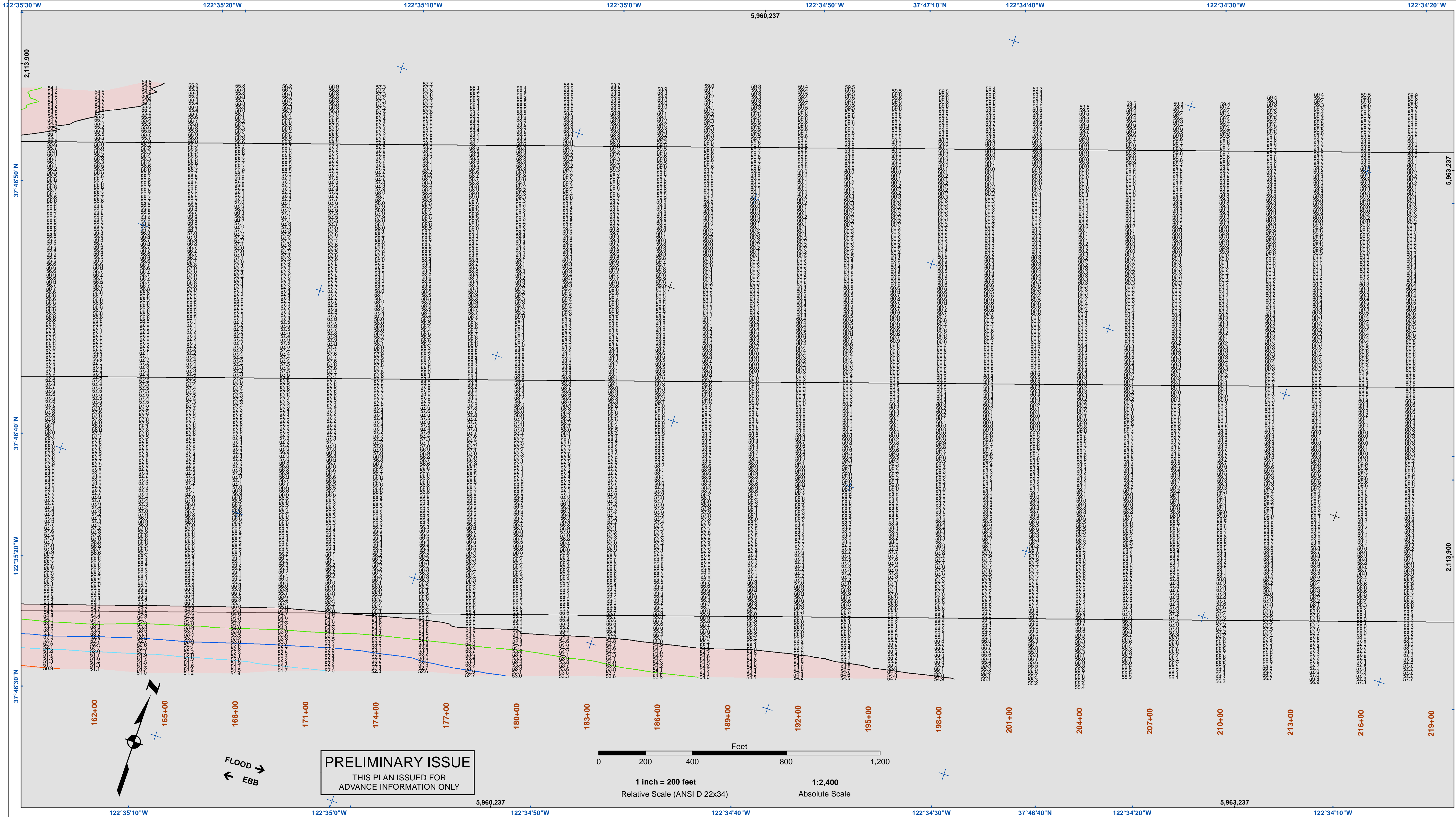
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VERTICAL CONTROL:
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HORIZONTAL CONTROL:
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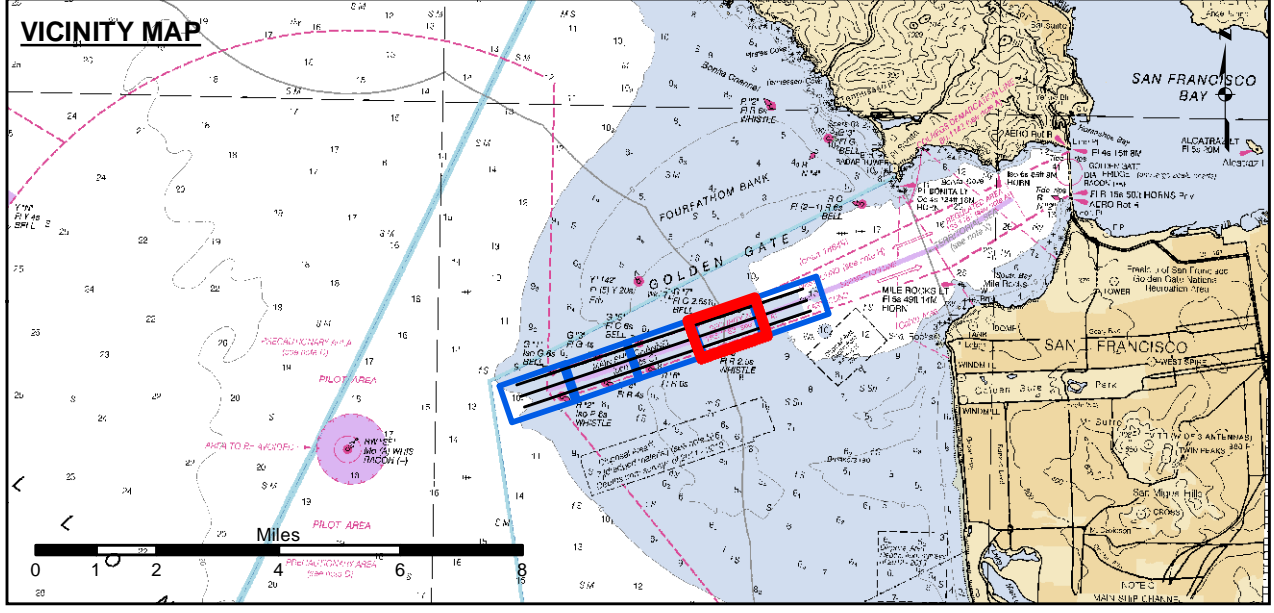
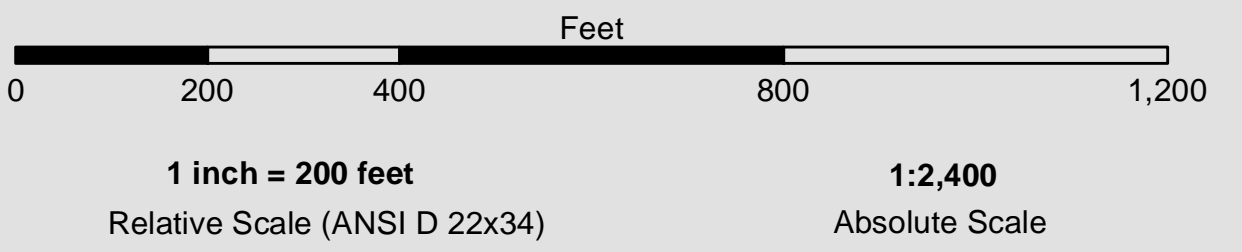
PREPARED UNDER THE DIRECTION OF KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: _____	Chart Date: Jan 31, 2023
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: _____
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: _____
Approved: Chief, Construction Branch		PDT

CALIFORNIA
SAN FRANCISCO BAY
SAN FRANCISCO MAINSHIP CHANNEL CONDITION SURVEY
06 DECEMBER 2022

Sheet Reference Number
3 of 5



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



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

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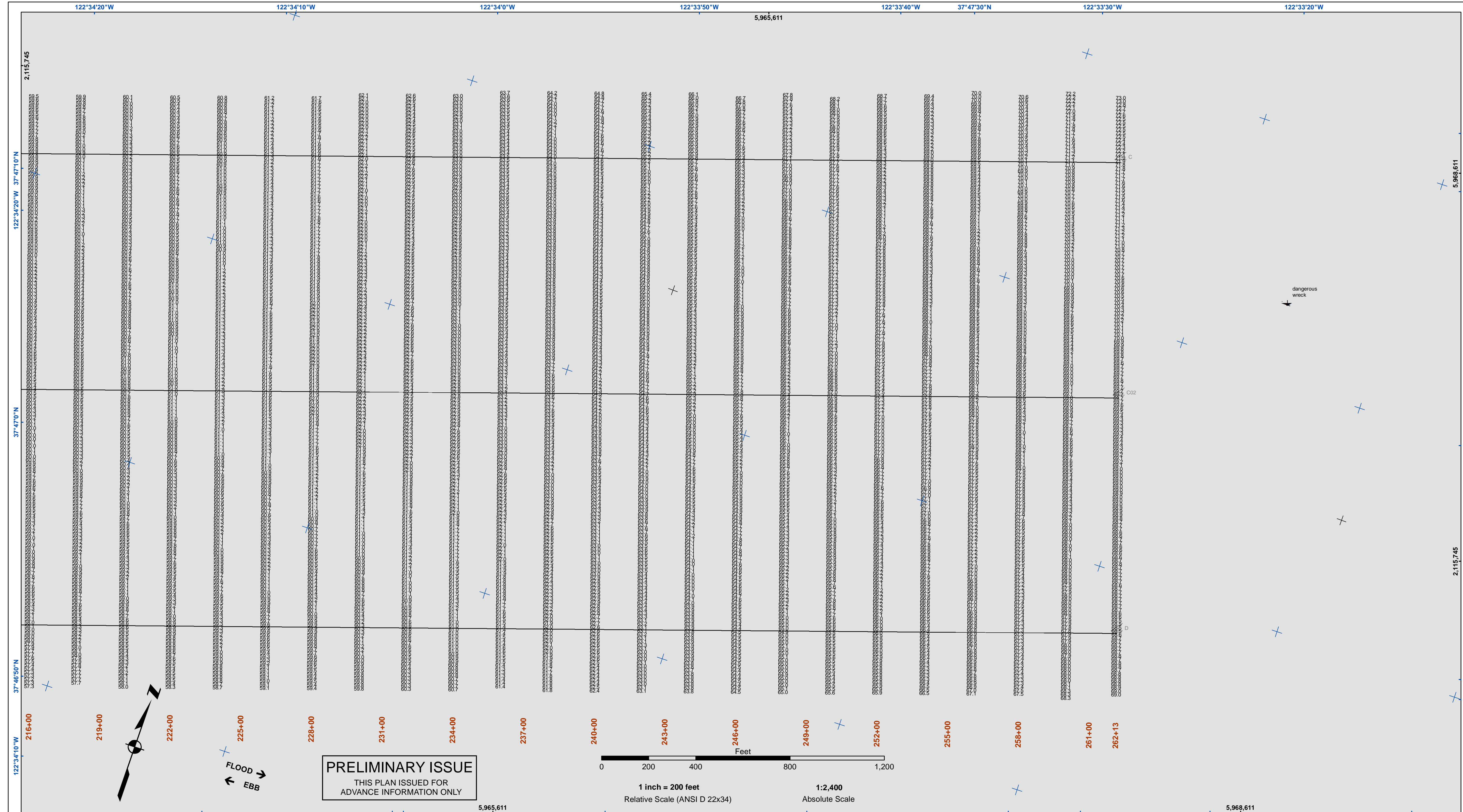


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PREPARED UNDER THE DIRECTION OF KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date:
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Jan 31, 2023
Recommended by: Chief, Hydro Survey Section	Checked By: PDT	Designed by:
Approved: Chief, Construction Branch	Drawn by: PDT	

CALIFORNIA
SAN FRANCISCO
MAINSHIP CHANNEL
CONDITION SURVEY
06 DECEMBER 2022

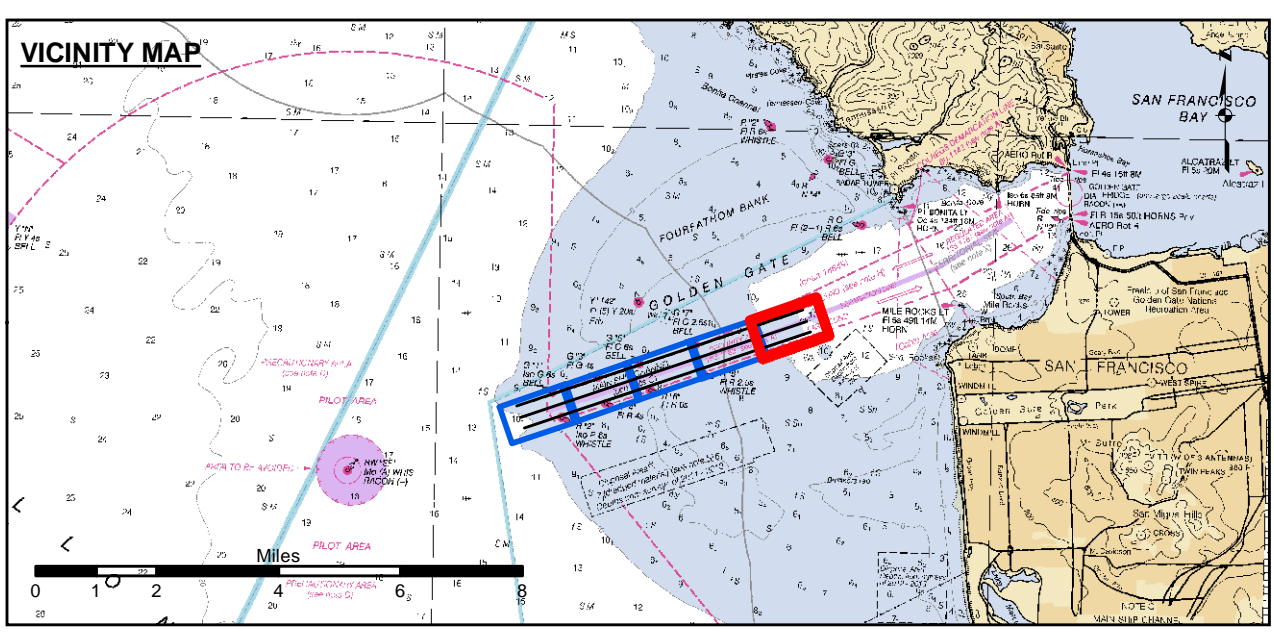
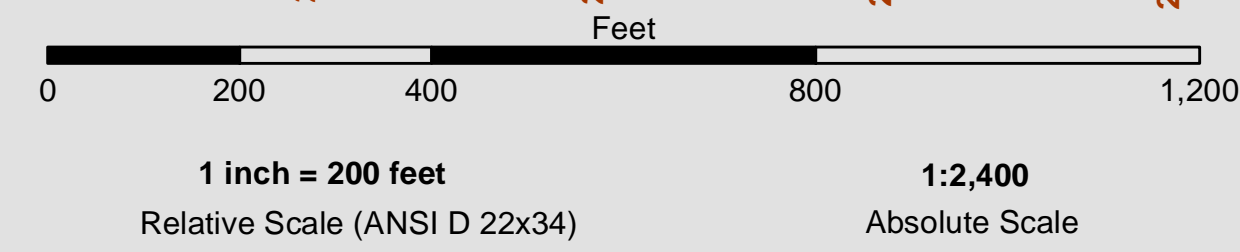
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Prepared Under the Direction of KEVIN P. ARNETT LT Colonel, C.E., District Engineer	Chart Date: Jan 31, 2023
Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

PRELIMINARY ISSUE
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- | | | |
|----------------------------|--------------------|----------------------|
| Federal Navigation Channel | Beacon, General | Contour Lines |
| Shoaling Area | Obstruction Point | |
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| Wreck Area | Shoalest Sounding* | |
| Submerged Wreck | | 51 |
| Angle Point | | 52 |
| | | 53 |
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CALIFORNIA
SAN FRANCISCO
MAINSHIP CHANNEL
CONDITION SURVEY
 06 DECEMBER 2022

Sheet Reference Number
5 of 5