



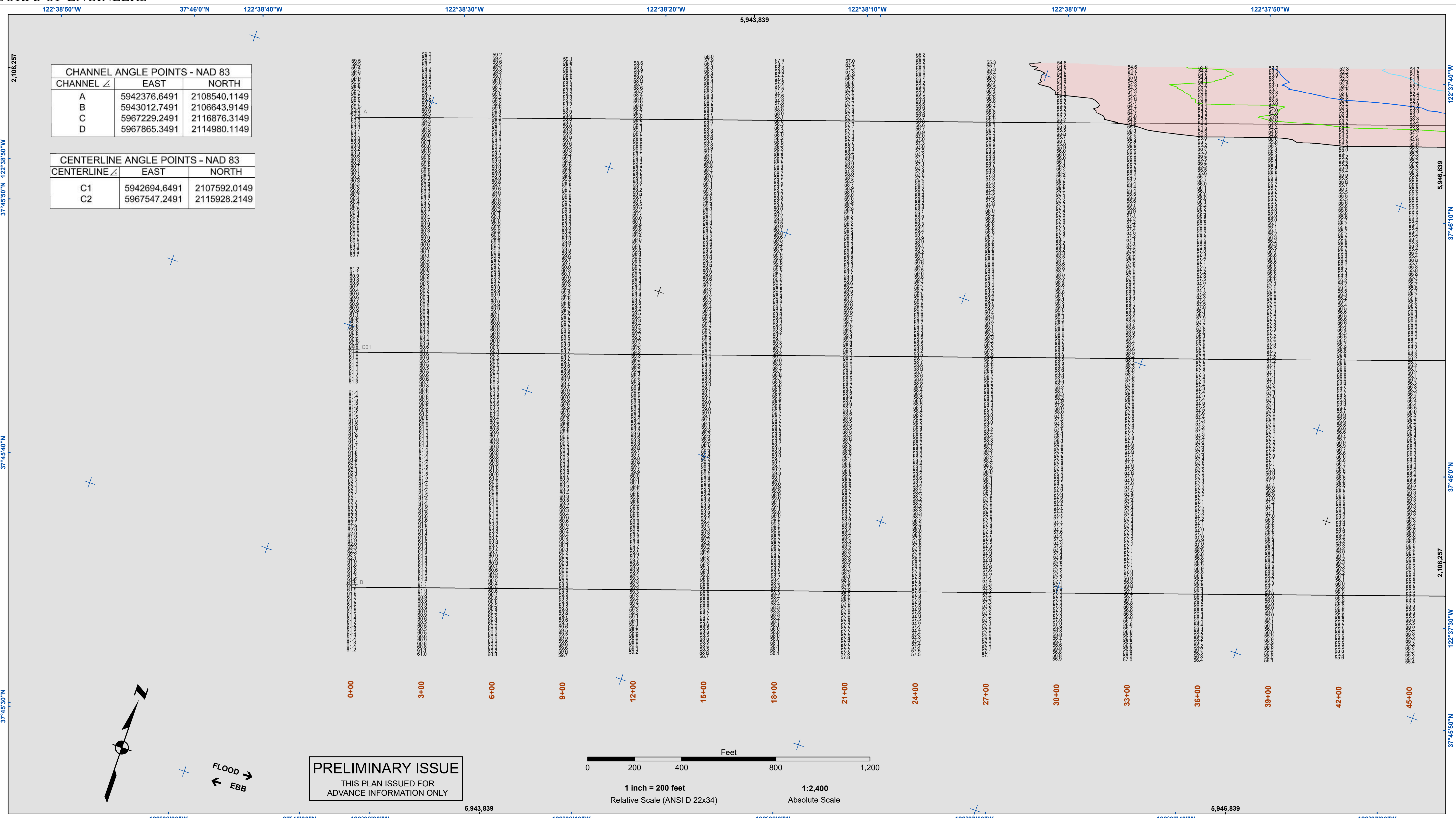
US Army Corps of Engineers
San Francisco District
450 Golden Gate Ave
San Francisco, CA 94102

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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Feb 28, 2020
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
11-20 FEBRUARY 2020

Sheet Reference Number
1 of 5

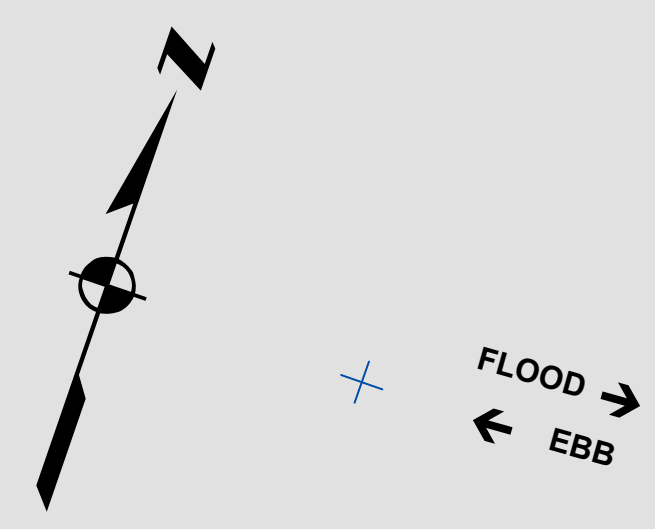


CHANNEL ANGLE POINTS - NAD 83

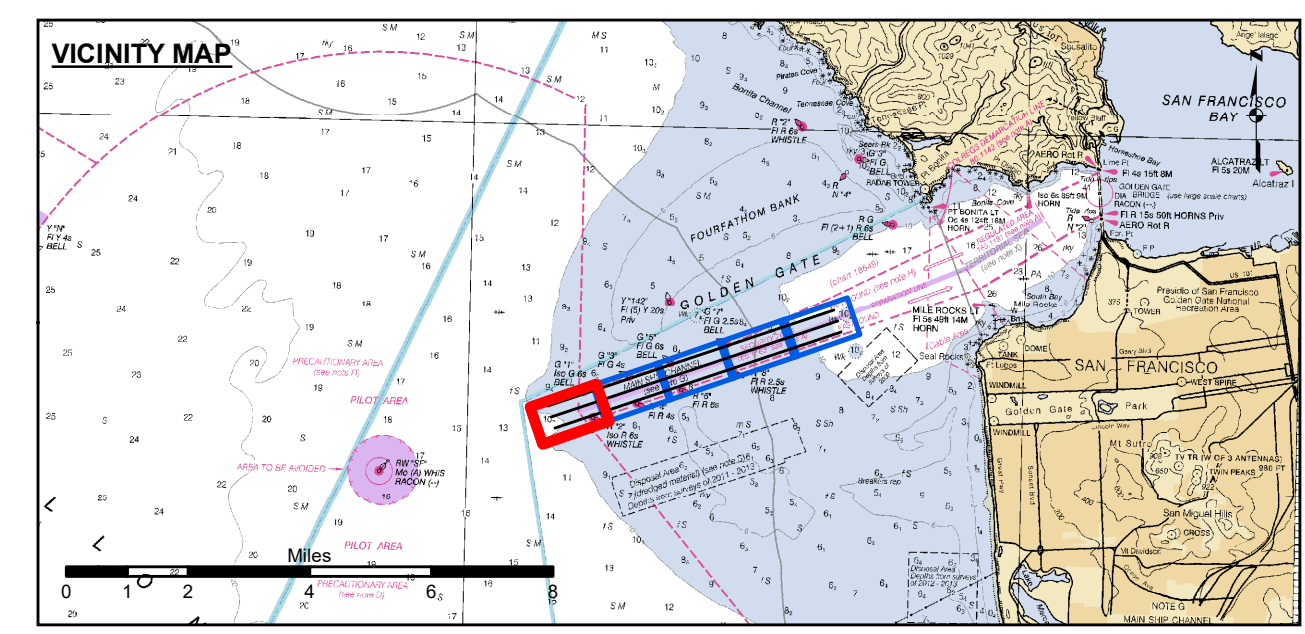
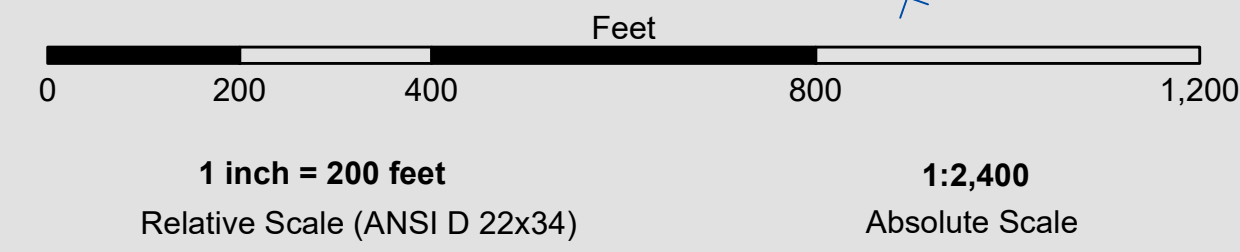
CHANNEL ∠	EAST	NORTH
A	5942376.6491	2108540.1149
B	5943012.7491	2106643.9149
C	5967229.2491	2116876.3149
D	5967865.3491	2114980.1149

CENTERLINE ANGLE POINTS - NAD 83

CENTERLINE ∠	EAST	NORTH
C1	5942694.6491	2107592.0149
C2	5967547.2491	2115928.2149



PRELIMINARY ISSUE
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ADVANCE INFORMATION ONLY



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

NOTES:
HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.
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VERTICAL CONTROL:
BENCHMARK "Q-481" USCGS DISK ELEV. 19.54 FT MLLW.
HORIZONTAL CONTROL:
COAST GUARD D-BEACON.



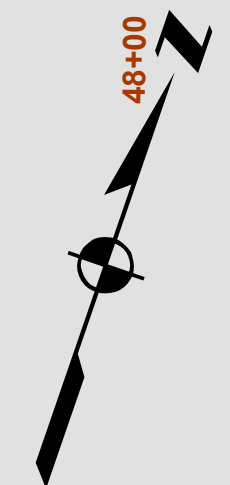
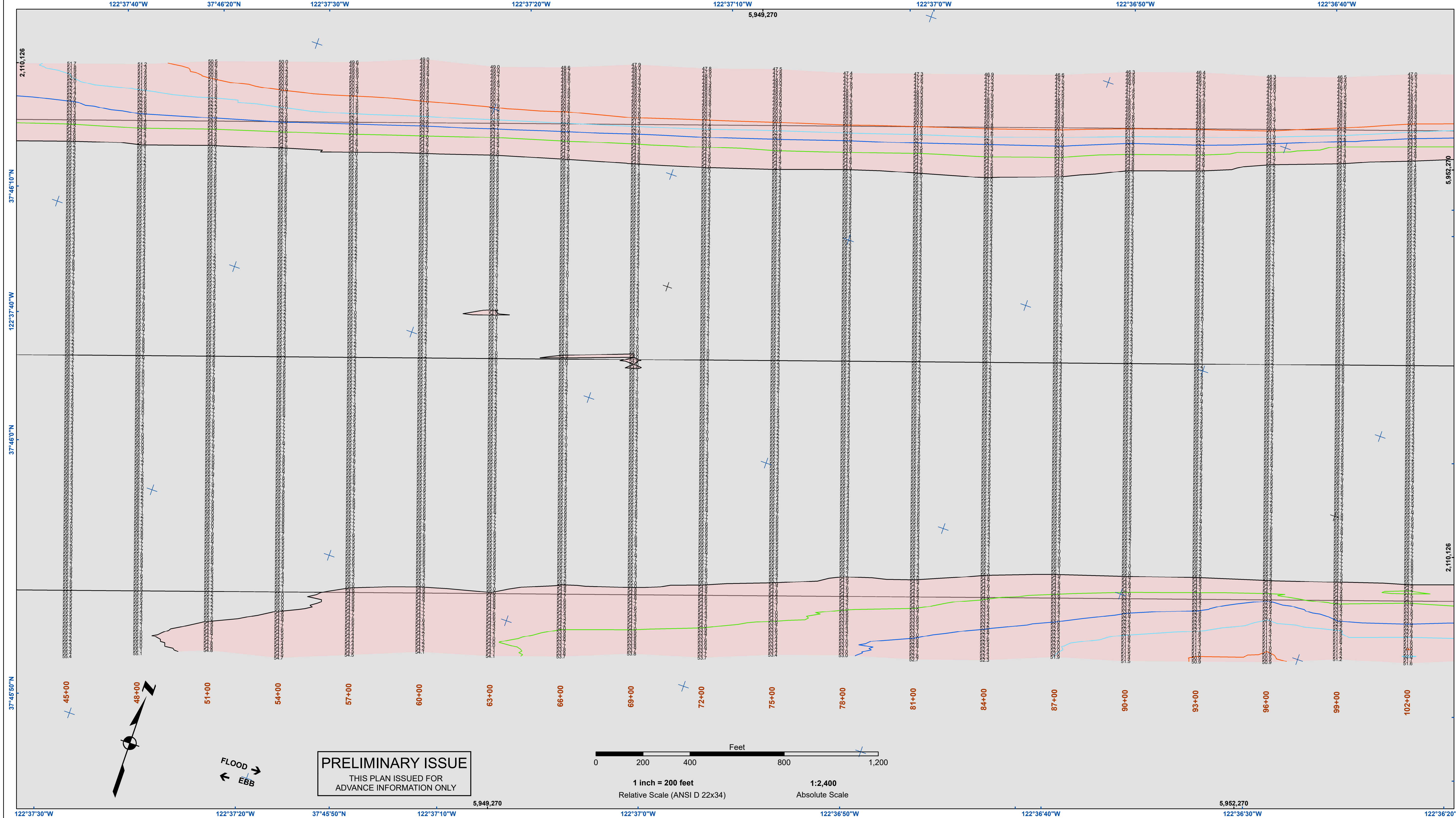
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Approved by: Chief, Construction Branch		

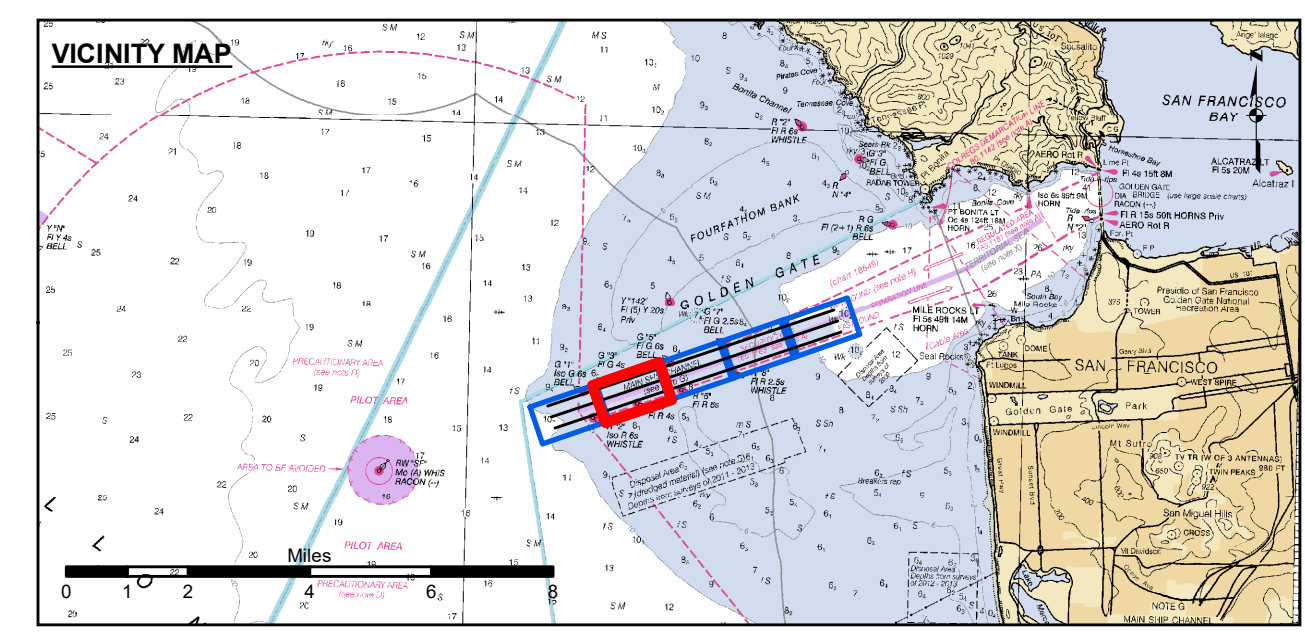
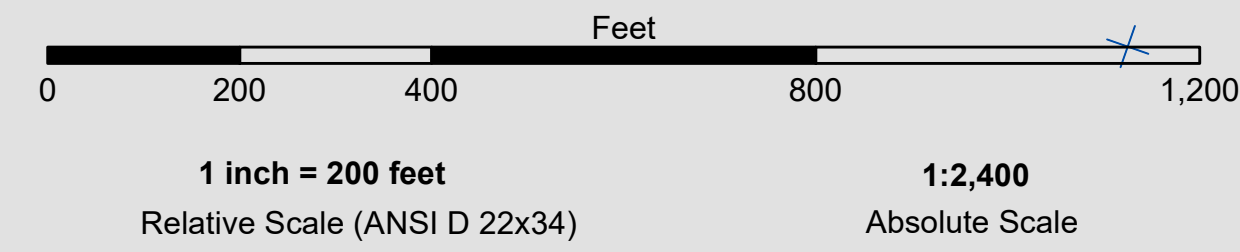
SAN FRANCISCO BAY
SAN FRANCISCO
CA
MAINSHIP CHANNEL
CONDITION SURVEY
11-20 FEBRUARY 2020

Sheet Reference Number
2 of 5



FLOOD →
← EBB

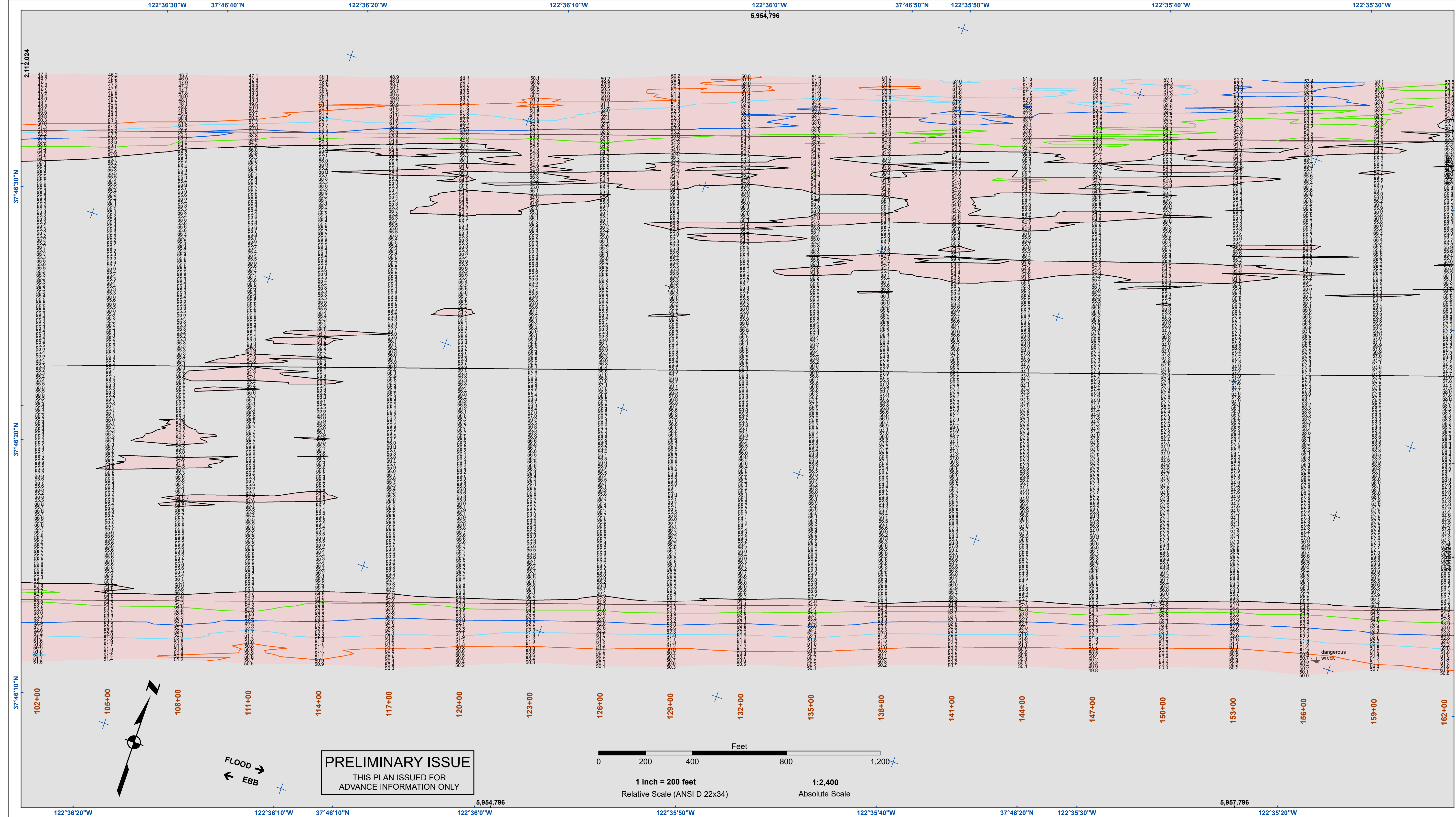
PRELIMINARY ISSUE
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- | | | | |
|----------------------------|--------------------|----------------------|----|
| Federal Navigation Channel | Beacon, General | Contour Lines | 51 |
| Shoaling Area | Obstruction Point | | 52 |
| Placement Area | Navigation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

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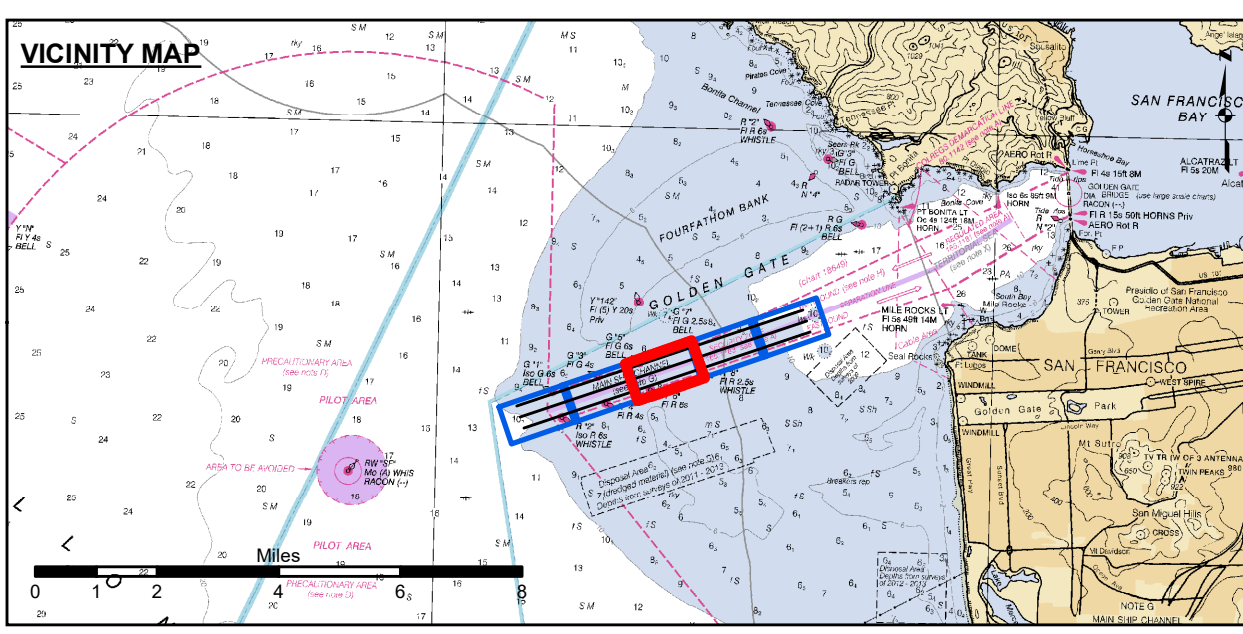
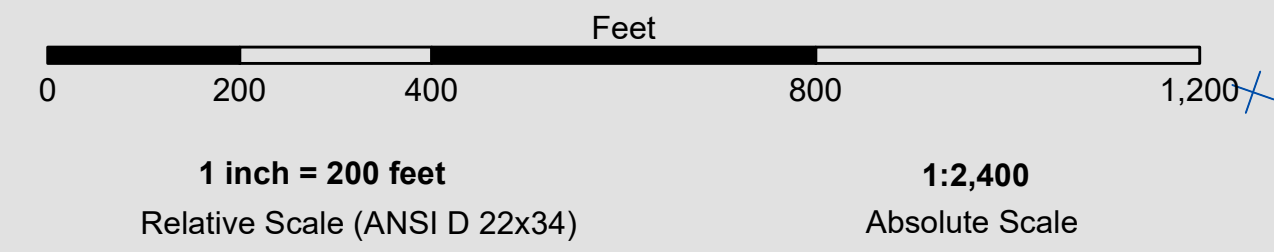
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HORIZONTAL CONTROL:
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Feb 28, 2020
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Recommended by: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved by: Chief, Construction Branch		

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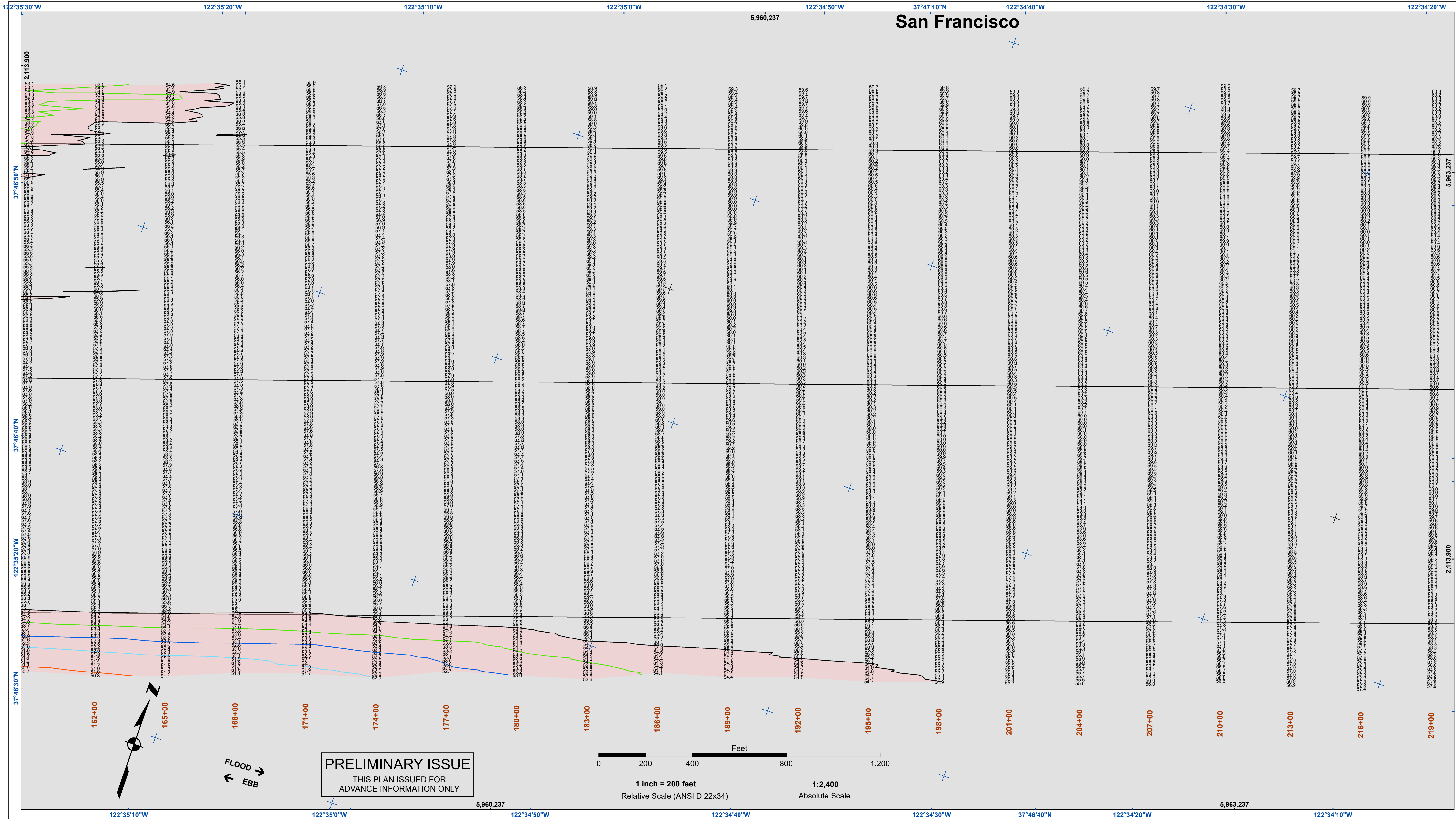
- | | | |
|----------------------------|--------------------|----------------------|
| Federal Navigation Channel | Beacon, General | Contour Lines |
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CALIFORNIA
 SAN FRANCISCO
SAN FRANCISCO MAINSHIP CHANNEL
 CONDITION SURVEY
 11-20 FEBRUARY 2020

Sheet Reference Number
 3 of 5

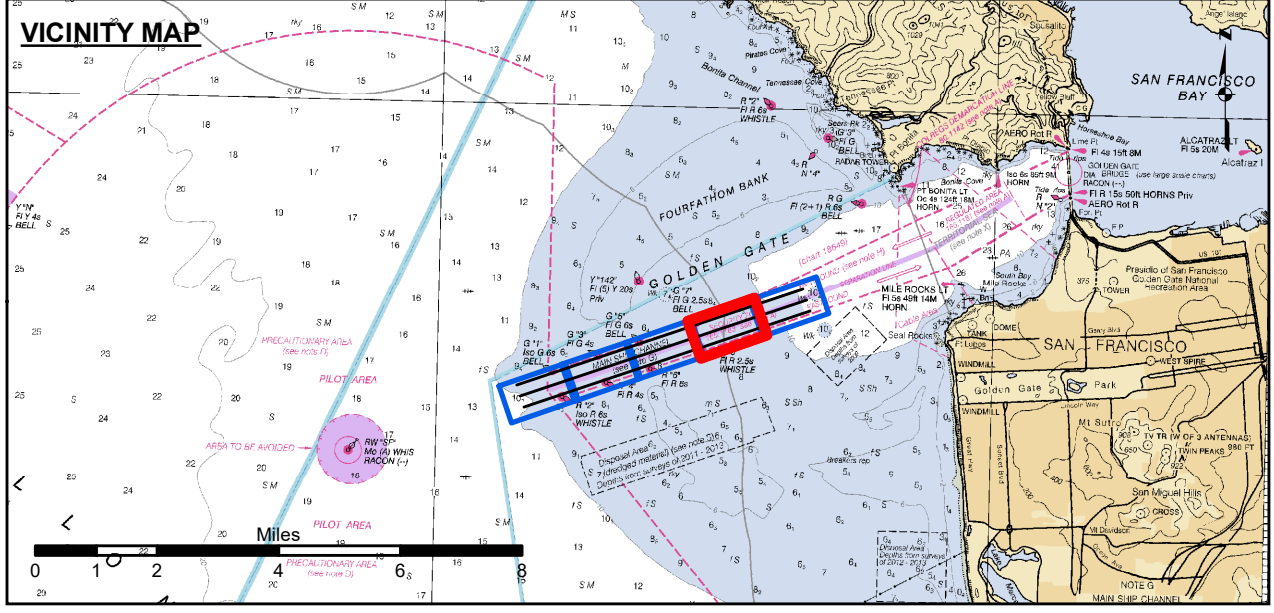


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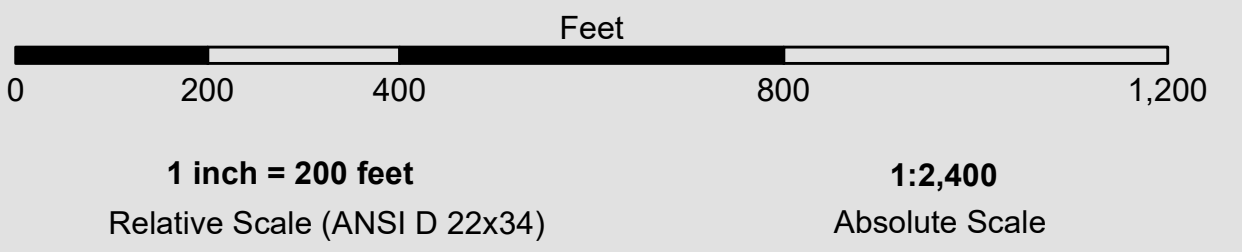
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SAN FRANCISCO BAY
CALIFORNIA
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CONDITION SURVEY
 11-20 FEBRUARY 2020



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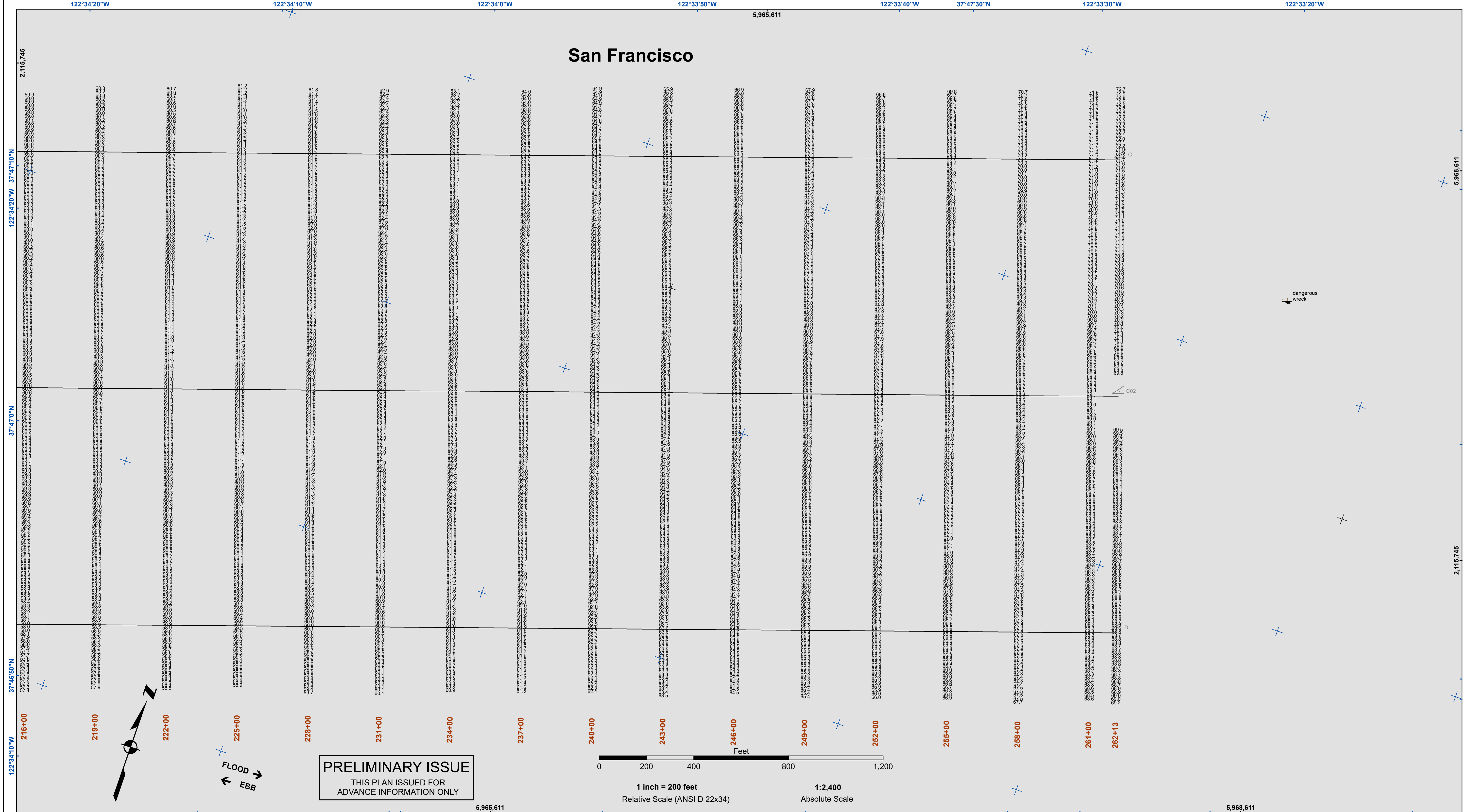


- | | | |
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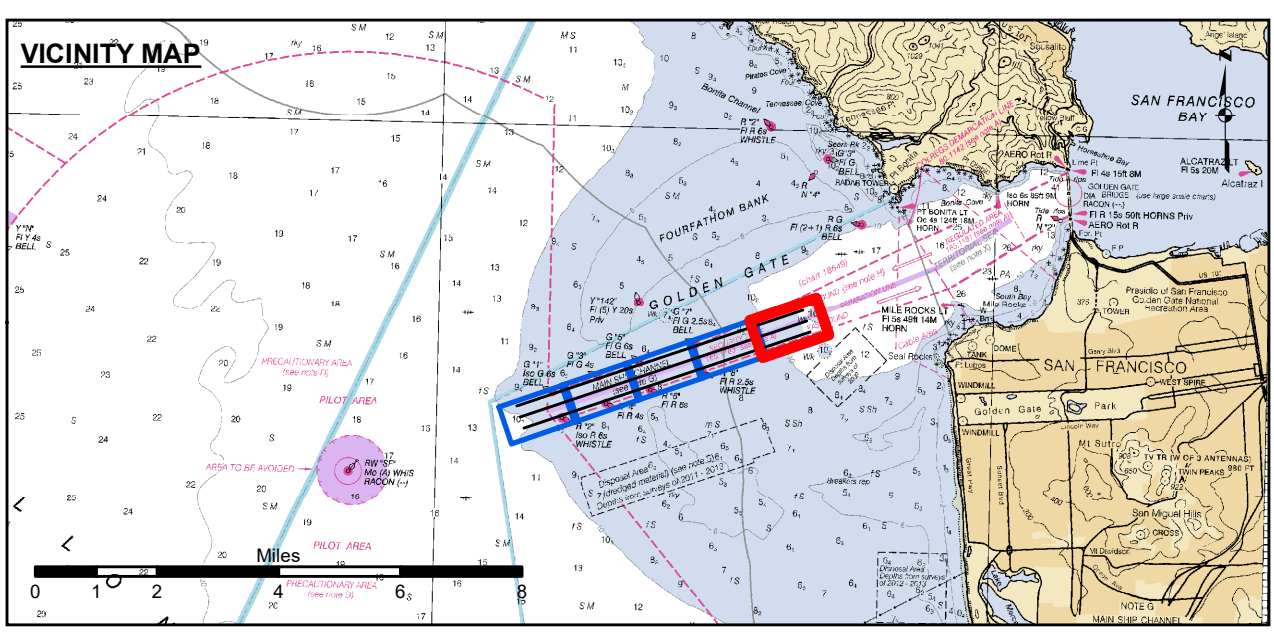
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E. District Engineer	Chart Date: Feb 28, 2020
Submitted by: Hydro Survey Team Leader	Designed by: PDT
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- | | | |
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CONDITION SURVEY
11-20 FEBRUARY 2020

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5 of 5