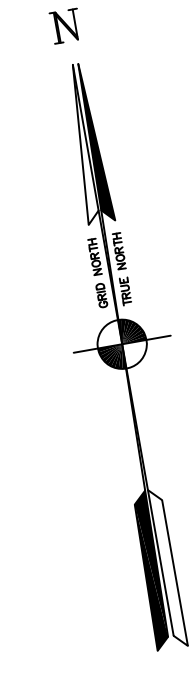


PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

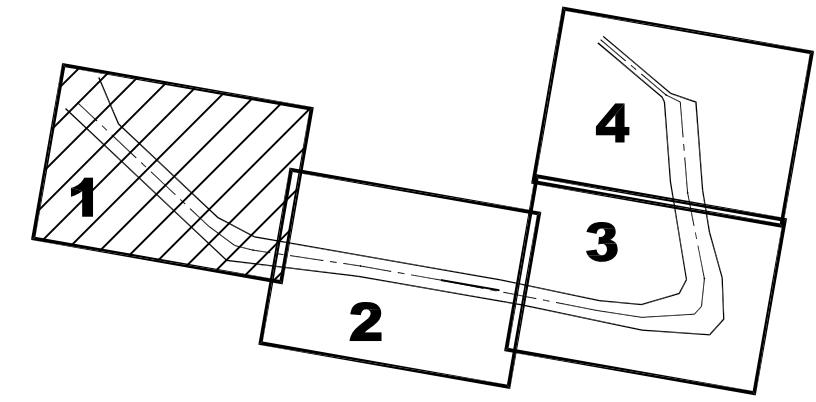


| N.A.D 1983 FEET COORDINATES | | |
|-----------------------------|------------|------------|
| CHANNEL ∟ | EAST | NORTH |
| 01 | 6010314.45 | 2162197.63 |
| 02 | 6009479.89 | 2161610.01 |
| 03 | 6010702.46 | 2161282.52 |
| 04 | 6013280.69 | 2158029.15 |
| 05 | 6013071.04 | 2159051.01 |
| 06 | 6016426.10 | 2157649.80 |
| 07 | 6013946.57 | 2158590.79 |
| 08 | 6020299.00 | 2156972.67 |
| 09 | 6019811.96 | 2157565.40 |
| 10 | 6023187.69 | 2156366.16 |
| 11 | 6022179.34 | 2157068.34 |
| 12 | 6024797.51 | 2156256.20 |
| 13 | 6023175.20 | 2156977.43 |
| 14 | 6025133.87 | 2156630.06 |
| 15 | 6024071.67 | 2157243.59 |
| 16 | 6025096.39 | 2157620.81 |
| 17 | 6024244.59 | 2157571.89 |
| 18 | 6024794.29 | 2158699.14 |
| 19 | 6023863.10 | 2159896.43 |
| 20 | 6024629.96 | 2159700.46 |

| N.A.D 1983 FEET COORDINATES | | |
|-----------------------------|------------|------------|
| CENTERLINE ∟ | EAST | NORTH |
| C1 | 6009733.59 | 2161788.64 |
| C2 | 6012865.31 | 2158833.18 |
| C3 | 6013468.42 | 2161282.52 |
| C4 | 6013908.41 | 2158274.95 |
| C5 | 6023181.48 | 2156672.46 |
| C6 | 6024602.82 | 2156937.52 |
| C7 | 6024670.54 | 2157597.05 |
| C8 | 6024272.27 | 2159642.46 |
| C9 | 6024094.38 | 2161810.72 |
| C10 | 6023765.30 | 2161971.09 |
| C11 | 6022194.65 | 2163295.65 |

SAN FRANCISCO BAY

SHEET INDEX



NOTES:

DRAWING NOT TO BE USED AS 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 LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS, 18-19 FEBRUARY 2014.

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, NAVD 88.

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. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

BASE MAPS WERE COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN 10 AUGUST 1996.

THE PROJECT DEPTHS ARE AS FOLLOWS:
INNER HARBOR CHANNEL - 38 FEET.

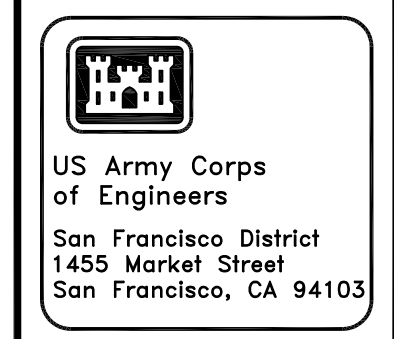
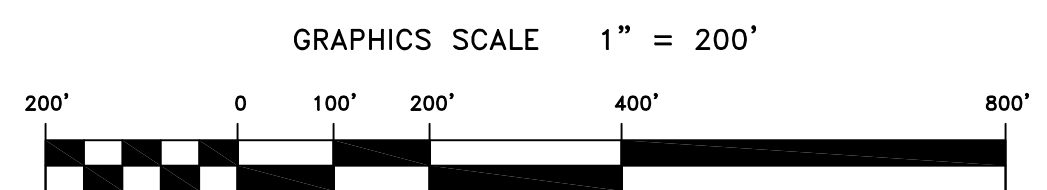
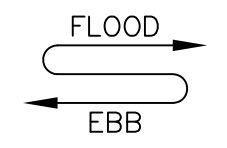
(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81 FT. MLLW.
BENCHMARK #2 (1932) USC&GS DISK OLD FORD PLANT 16.0825 FT MLLW
B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW

TIDE GAGE LOCATION: MON B-1.

CONTROL:
POOR-1 2010 - PID: BBCT06
37 54 34.181N, 122 21 34.003W
MLLW: 13.47 (DERIVED FROM VDATUM AND GEOID09)
MLLW: 13.52 (PUBLISHED NOAA 941 4764 TIDAL BM)
WGS84 ELEVATION: -28.212M

HORIZONTAL GPS CONTROL: RTK FROM POOR-1 2010
VERTICAL CONTROL: RTK TIDES FROM POOR-1 2010 USING VDATUM AND GEOID09

| LEGEND: | |
|----------------|------|
| — (Black line) | -38' |
| — (Green line) | -37' |
| — (Blue line) | -36' |
| — (Cyan line) | -35' |
| — (Red line) | -34' |



| Mark | Description | Date | Appr. |
|------|-------------|------|-------|
| | | | |
| | | | |
| | | | |
| | | | |

| SUBMITTED: | PDT | APPROVAL RECOMMENDED: | DESIGNED BY: | PDT | SHEET NO. | DRAWING NO. | CHECKED BY: | PDT | DRAWING NO. | | | | | | |
|---------------------------------|-----|-----------------------|--------------|-----|-----------|-------------|-------------|-----|-------------|--------------------|---|-------------------|---|---|---|
| | | | | | | | | | | DATE: | 1 | OF | 4 | 9 | 2 |
| Hydro Survey Team Leader | | | | | 2/24/2014 | 1 | OF | 4 | 9 | 2 | | | | | |
| PREPARED UNDER THE DIRECTION OF | | | | | | | | | | JOHN K. BAKER | | DISTRICT ENGINEER | | | |
| APPROVED: | | | | | | | | | | LT. COLONEL, C.E., | | | | | |

CALIFORNIA
ALAMEDA COUNTY
RICHMOND INNER HARBOR
CONDITION SURVEY
18-19 FEBRUARY 2014

Sheet reference number
C1

MATCHLINE - SHEET 2