

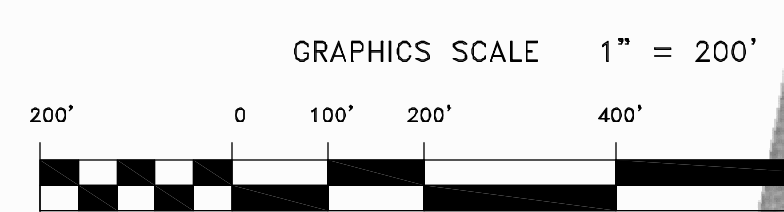
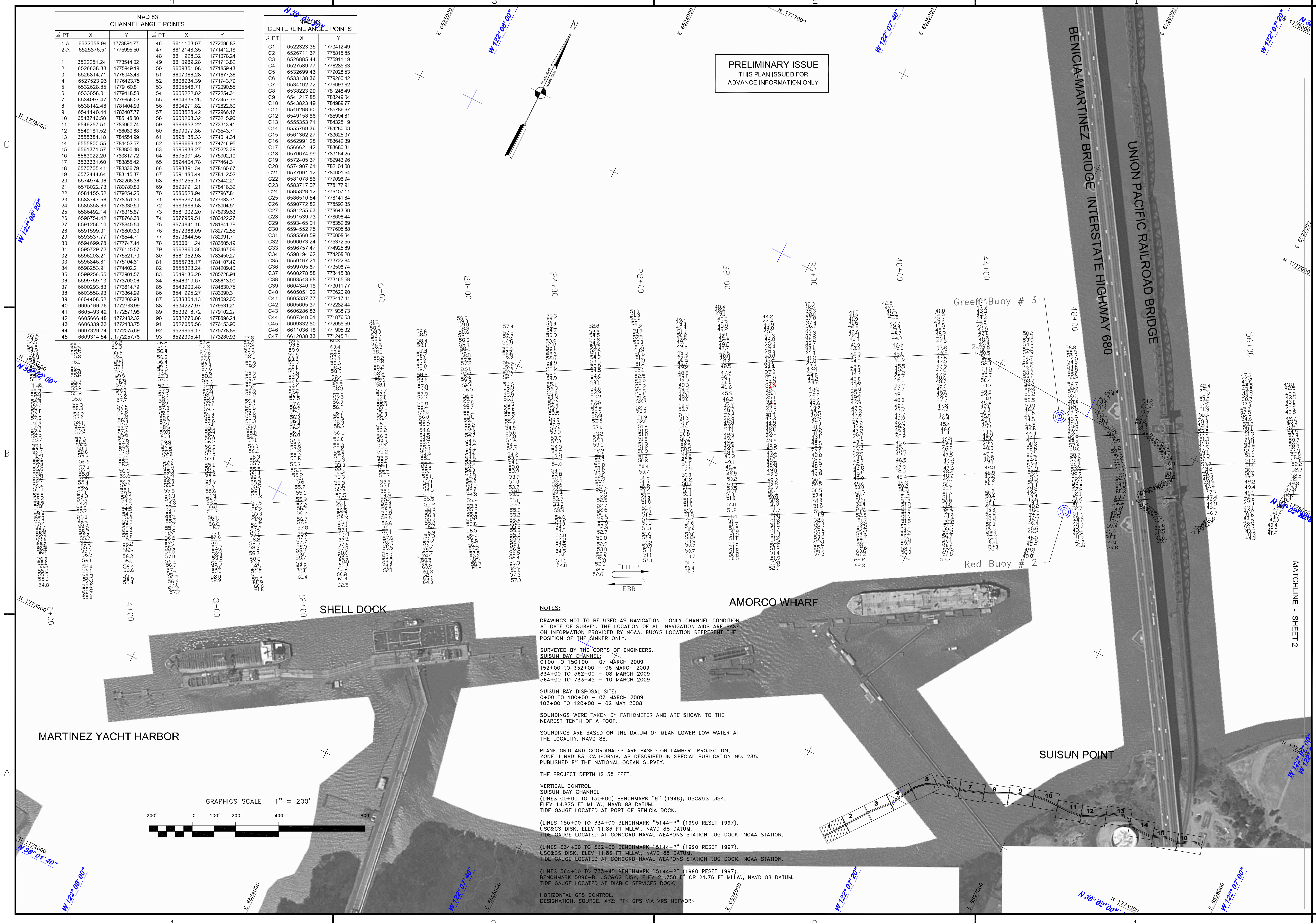
NAD 83  
CHANNEL ANGLE POINTS

Δ PT	X	Y	Δ PT	X	Y
1-A	6522058.94	1773894.77	46	6611103.07	1772096.82
2-A	6525876.51	1775995.50	47	6612148.35	1771412.18
1	6522251.24	1773544.02	48	6611928.32	1771078.24
2	6526638.33	1775949.19	49	6610969.28	1771713.82
3	6526814.71	1776043.48	50	6609351.08	1771859.43
4	6527523.96	1776423.75	51	6607366.28	1771777.36
5	6532628.85	1779160.81	52	6606234.39	1771743.72
6	6533058.01	1779418.58	53	6605548.71	1772090.55
7	6534097.47	1779554.32	54	6605222.02	1772254.31
8	6538142.48	1781404.93	55	6604935.28	1772457.79
9	6541140.44	1783407.77	56	6604271.82	1772822.60
10	6543746.50	1785148.80	57	6603528.42	1772966.17
11	6546257.51	1786960.74	58	6602633.32	1773215.96
12	6549181.52	1788360.88	59	6599652.22	1773313.41
13	6553594.18	1784554.99	60	6599077.86	1773543.71
14	6555800.55	1784545.57	61	6598135.33	1774014.34
15	6561371.57	1783800.48	62	6596868.12	1774746.95
16	6563022.20	1783817.72	63	6595938.27	1775223.39
17	6566631.60	1783855.42	64	6595391.45	1775902.10
18	6570705.41	1783336.79	65	6594404.78	1777484.31
19	6572444.64	1783153.37	66	6593391.34	1778160.67
20	6574974.06	1782266.38	67	6591480.44	1778412.52
21	6578022.73	1780780.80	68	6591255.17	1778442.21
22	6581155.52	1779254.25	69	6590791.21	1778418.32
23	6583747.56	1778351.30	70	6589528.94	1777967.81
24	6585358.69	1778330.50	71	6588529.54	1777963.71
25	6586482.14	1778315.87	72	6588002.20	1778339.63
26	6590754.42	1778766.38	73	6587959.51	1778422.27
27	6591256.10	1778845.54	74	6587484.16	1778194.79
28	6591599.01	1778800.33	75	6587266.09	1782772.55
29	6593537.77	1778544.71	76	6587084.56	1782991.71
30	6594689.78	1777474.44	77	6586911.24	1783005.19
31	6595729.72	1776115.57	78	6586290.38	1783467.06
32	6596208.21	1775521.70	79	6586135.98	1783450.27
33	6596846.81	1775104.81	80	6585738.17	1784107.49
34	6598253.91	1774402.21	81	6585523.24	1784209.40
35	6599256.55	1773901.57	82	6585491.36	178528.94
36	6599759.13	1773482.32	83	6585318.67	1778482.32
37	6600293.83	1773614.79	84	65854390.48	1784830.75
38	6603558.93	1773364.99	85	65841295.27	1783090.31
39	6604408.52	1773200.93	86	6583804.13	1781092.05
40	6605166.76	1772783.99	87	6583422.97	1779531.21
41	6605493.42	1772571.96	88	6583218.72	1779102.27
42	6605666.48	1772482.32	89	6583270.08	1778988.24
43	6606339.33	1772133.75	90	6582770.08	1778988.24
44	6607329.74	1772076.89	91	6582765.58	1778153.90
45	6609314.54	1772257.76	92	6582896.17	1775778.89
			93	6582395.41	1773280.93

CENTERLINE ANGLE POINTS

Δ PT	X	Y
C1	6522323.35	1773412.49
C2	6526711.37	1775815.85
C3	6528895.44	1775911.19
C4	6527589.77	1776288.83
C5	6532899.46	1779208.53
C6	6533138.36	1779280.42
C7	6534162.72	1779693.82
C8	6538223.28	1781248.49
C9	6541217.85	1783249.04
C10	6543823.49	1784989.77
C11	6546286.60	1785796.87
C12	6549158.86	1785804.81
C13	6553353.71	1784325.19
C14	6555769.38	1784280.03
C15	6561362.27	1783625.37
C16	6562991.28	1783642.39
C17	6566621.42	1783680.31
C18	6570674.99	1783164.25
C19	6572405.54	1782943.96
C20	6574907.61	1782104.08
C21	6577991.12	1780601.54
C22	6581078.86	1779096.94
C23	6583717.07	1778177.91
C24	6586328.12	1778157.11
C25	6588510.54	1778141.94
C26	6590772.82	1778692.57
C27	6591255.63	1778643.88
C28	6591539.73	1778606.44
C29	6593465.01	1778352.69
C30	6594552.75	1777605.88
C31	6595505.59	1778008.94
C32	6596073.24	1775372.55
C33	6596757.47	1774925.89
C34	6598194.62	1774208.28
C35	6599167.21	1773722.84
C36	6599705.87	1773506.74
C37	6600278.58	1773415.38
C38	6603543.68	1773165.58
C39	6604340.18	1773011.77
C40	6605051.02	1772620.90
C41	6605337.77	1772417.41
C42	6605905.37	1772282.44
C43	6606278.58	1771828.73
C44	6607348.01	1771876.53
C45	6609332.80	1772058.59
C46	6611036.18	1771805.32
C47	6612038.33	1771245.21

PRELIMINARY ISSUE  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY



NOTES:

DRAWINGS 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 NOAA. BUOYS LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.  
SUISUN BAY CHANNEL:  
0+00 TO 150+00 - 07 MARCH 2009  
152+00 TO 332+00 - 06 MARCH 2009  
334+00 TO 562+00 - 08 MARCH 2009  
564+00 TO 733+45 - 10 MARCH 2009

SUISUN BAY DISPOSAL SITE:  
0+00 TO 100+00 - 07 MARCH 2009  
102+00 TO 120+00 - 02 MAY 2008

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 AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL  
SUISUN BAY CHANNEL  
(LINES 00+00 TO 150+00) BENCHMARK "9" (1948), USC&GS DISK, ELEV 14.875 FT MLLW., NAVD 88 DATUM.  
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 334+00) BENCHMARK "5144-P" (1990 RESET 1997), USC&GS DISK, ELEV 11.83 FT MLLW., NAVD 88 DATUM.  
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 334+00 TO 562+00) BENCHMARK "5144-P" (1990 RESET 1997), USC&GS DISK, ELEV 11.83 FT MLLW., NAVD 88 DATUM.  
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 564+00 TO 733+45) BENCHMARK "5144-P" (1990 RESET 1997), BENCHMARK 5098-B, USC&GS DISK, ELEV 21.758 FT OR 21.76 FT MLLW., NAVD 88 DATUM.  
TIDE GAUGE LOCATED AT DIABLO SERVICES DOCK.

HORIZONTAL GPS CONTROL.  
DESIGNATION, SOURCE, XYZ; RTK GPS VIA VRS NETWORK

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

Work	Description	Date	Appr.

DESIGNED BY:	CHECKED BY:	DRAWN BY:	EWC
LAURENCE M. FARRELL	TW	LWC	
PREPARED UNDER THE DIRECTION OF	DATE:	SHEET NO.	DRAWING NO.
LAURENCE M. FARRELL	3/18/2009	4	2
LT. COLONEL, C.E., DISTRICT ENGINEER	APPROVAL RECOMMENDED:	APPROVED:	
	Chief, Technical Support Section	Chief, Construction Branch	

CALIFORNIA  
CONTRA COSTA COUNTY  
SUISUN BAY CHANNEL  
CONDITION SURVEY  
6-8 AND 10 MARCH 2009

Sheet reference  
number  
C1