NAD 83 CHANNEL ANGLE POINTS					
∠ PT	X	Y	∠ PT	X	Y
1-A	6522058.94	1773096.77	48	6311103.07	1772296.82
2-A	6525870.51	1775995.50	47	6312143.35	1771412.19
			46	6311923.32	1771078.24
1	6522251.24	1773544.02	49	6310909.23	1771713.82
2	6520838.33	1775969.19	50	6309351.08	1771859.43
3	6520814.71	1776043.43	51	6307366.23	1771877.38
4	6521523.98	1776423.75	52	6306324.49	1771743.72
5	6520128.35	1779160.81	53	6305546.71	1772290.55
6	6519058.01	1779418.50	54	6305222.02	1772254.21
7	6520497.47	1779950.02	55	6304935.26	1772457.79
8	6520142.43	1781404.90	56	6304271.82	1772822.90
9	6521149.44	1783407.77	57	6303523.42	1772980.17
10	6521478.50	1785143.80	58	6302263.32	1773215.98
11	6521257.51	1785980.74	59	6299852.22	1773313.41
12	6521181.52	1786330.63	60	6299077.36	1773543.71
13	6555304.18	1784556.99	61	6591195.93	1774014.34
14	6555300.55	1784452.57	62	6590363.12	1774740.95
15	6561371.57	1783000.43	63	6595903.27	1775223.09
16	6563022.20	1783017.72	64	6595391.45	1775902.10
17	6563631.90	1783055.42	65	6594494.78	1777646.21
18	6570705.41	1783230.79	66	6593911.34	1778160.67
19	6572444.84	1783115.37	67	6591480.44	1778412.52
20	6574974.06	1782286.36	68	6591255.17	1778442.21
21	6576022.73	1780780.30	69	6590791.21	1778418.32
22	6581155.52	1778925.25	70	6583629.94	1777987.31
23	6583074.58	1778051.30	71	6585297.54	1777983.71
24	6585358.69	1778000.50	72	6583686.53	1778004.51
25	6583492.14	1778015.37	73	6581002.20	1778699.63
26	6590754.42	1778788.38	74	6577959.51	1780422.27
27	6591256.10	1778984.52	75	6574341.16	1781941.79
28	6591599.01	1778980.20	76	6572368.09	1782772.55
29	6593537.77	1779544.71	77	6570944.58	1782991.71
30	6594899.73	1777747.44	78	6569811.24	1783505.19
31	6595729.72	1778115.57	79	6562980.36	1783497.98
32	6591208.21	1779521.70	80	6561352.98	1783450.27
33	6593843.81	1775104.81	81	6555738.17	1784107.49
34	6592853.91	1774402.21	82	6555323.24	1784209.40
35	6599258.65	1773901.57	83	6549136.20	1785728.94
36	6599759.13	1773700.08	84	6548319.97	1785913.00
37	6600293.80	1773614.79	85	6542900.43	1786330.75
38	6600553.90	1773084.99	86	6541295.27	1786090.31
39	6600403.62	1773200.90	87	6539304.13	1786192.05
40	6605168.78	1772733.99	88	6534227.97	1779851.21
41	6605493.42	1772571.98	89	6532214.72	1779102.27
42	6605988.43	1772432.32	90	6532770.08	1778398.24
43	6601309.30	1772130.75	91	6527655.53	1776152.90
44	6607329.74	1772075.89	92	6526956.17	1775773.89
45	6609314.54	1772257.73	93	6522996.41	1773280.57

NAD 83 CENTERLINE ANGLE POINTS			
∠ PT	X	Y	
C1	6522320.35	1773412.69	
C2	6520711.37	1775315.35	
C3	6520935.44	1775911.19	
C4	6521756.77	1776280.30	
C5	6520199.48	1779023.53	
C6	6519138.36	1779290.42	
C7	6514182.72	1779090.82	
C8	6513220.29	1781243.49	
C9	6512117.35	1783249.04	
C10	6508823.49	1784989.77	
C11	6504238.80	1785736.87	
C12	6499158.38	1785904.31	
C13	6595363.71	1784325.19	
C14	6595789.38	1784300.00	
C15	6581382.27	1783825.37	
C16	6582991.28	1783642.39	
C17	6590821.42	1783680.21	
C18	6570874.99	1783184.25	
C19	6572405.37	1782943.96	
C20	6574907.81	1782184.08	
C21	6577991.12	1780881.56	
C22	6581078.38	1779098.94	
C23	6583717.07	1781177.91	
C24	6585323.12	1781857.11	
C25	6586510.56	1781414.84	
C26	6590772.82	1781592.35	
C27	6591255.63	1781843.38	
C28	6591539.73	1781880.44	
C29	6593485.01	1781852.89	
C30	6594552.75	1777605.38	
C31	6595580.59	1781880.84	
C32	6596029.24	1781872.55	
C33	6598757.47	1774925.89	
C34	6598196.62	1774280.23	
C35	6559187.21	1773722.64	
C36	6599705.07	1773580.74	
C37	6600279.53	1774145.38	
C38	6600540.38	1773185.53	
C39	6600434.18	1773011.77	
C40	6600561.02	1772820.90	
C41	6600307.77	1772617.41	
C42	6600495.57	1772282.44	
C43	6600288.36	1771930.73	
C44	6600734.01	1771876.53	
C45	6600322.90	1772050.59	
C46	6611036.18	1771935.32	
C47	6612033.30	1772290.57	

PRELIMINARY ISSUE
NOT FOR SOLICITATION OR AWARD. IN WORK GRADE.

N 1775000
N 1774000
N 1773000
N 1772000
E 6524000
E 6526000
E 6528000
W 122° 08' 00"
W 122° 07' 40"
W 122° 07' 20"
W 122° 07' 00"
W 122° 06' 40"
N 38° 02' 20"
N 38° 02' 00"
N 38° 01' 40"

BENICIA-MARTINEZ BRIDGE INTERSTATE HIGHWAY 680
UNION PACIFIC RAILROAD BRIDGE
MATCHLINE - SHEET 2
SHELL DOCK
AMORCO WHARF
MARTINEZ YACHT HARBOR
SUISUN POINT
FLOOD
EBB

16+00 20+00 24+00 28+00 32+00 36+00 40+00 44+00 48+00 52+00 56+00 0+00

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 THE U.S. COAST GUARD. BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

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.

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 160+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 500+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 500+00 TO 660+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 660+00 TO 733+45 BENCHMARK "5098-P", USC&GS DISK, ELEV 21.76 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT DIABLO SERVICES DOCK.

NEW YORK SLOUGH
(LINES 0+00 TO 232+00 BENCHMARK "5098-B" (1997), USC&GS DISK, ELEV 21.758 OR 21.76 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL.
COAST GUARD D-BEACON.

LEGEND:
-35'
-34'
-33'
-32'
-31'

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

GRAPHICS SCALE 1" = 200'
200' 0 100' 200' 400' 800'

No.	Description	Date	Appr.

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

SUBMITTED:	CHECKED BY:	DRAWN BY:
PDT	PDT	PDT
Survey Section Team Leader	DATE:	SHEET NO.	DRAWING NO.	
APPROVAL RECOMMENDED:	02/01/2011	1 OF 16	4	2	XXX
Chief, Geomatic Section	PREPARED UNDER THE DIRECTION OF TORREY A. DICIRO	
APPROVED:	LT. COLONEL, C.E., DISTRICT ENGINEER	
Chief, Construction Branch		

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL
POSTDREDGE COMPOSITE SURVEYS
SEPTEMBER 2010 - JANUARY 2011

Sheet reference number
G1