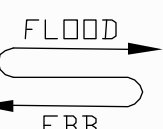


PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

SF 16 DISPOSAL NAD 83 CHANNEL ANGLE POINTS		
∠ PT	X	Y
B1	6531826.1400	1778656.8500
B2	6533044.9400	1785084.8500
B3	6536263.0400	1781483.2500
B4	6537502.4400	1782043.8500
B5	6542439.3400	1785229.8500
B6	6542710.4400	1784809.8500
B7	6537742.3400	1781803.8500
B8	6536439.3400	1781014.1500
B9	6533237.1400	1780044.1500
B10	6532061.9400	1779415.8500

SF 16 DISPOSAL NAD 83 CENTERLINE ANGLE POINTS		
∠ PT	X	Y
D1	6531944.0400	1779638.3500
D2	6533141.0400	1780278.2500
D3	6538351.2400	1781248.7500
D4	6537622.4400	1781823.8500
D5	6542574.8400	1785019.7500

BULLS HEAD CHANNEL



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, BULLSHEAD CHANNEL 12 JUNE 2009.

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.

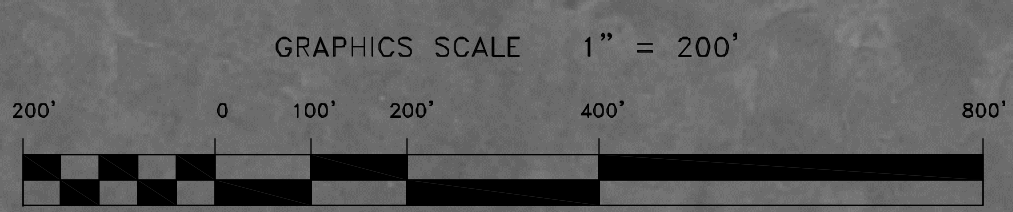
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE II NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL
STAMPING: 9 1948
DESIGNATION: 941 5111 TIDAL 9
PID: JT0141
VM#: 8554
MLLW ELEVATION: 4.534M / 14.88 FT.
USGACS DISK
PUBLISHED 06/09/2009

TIDE GAUGE LOCATION AT BENICIA FUEL DOCK

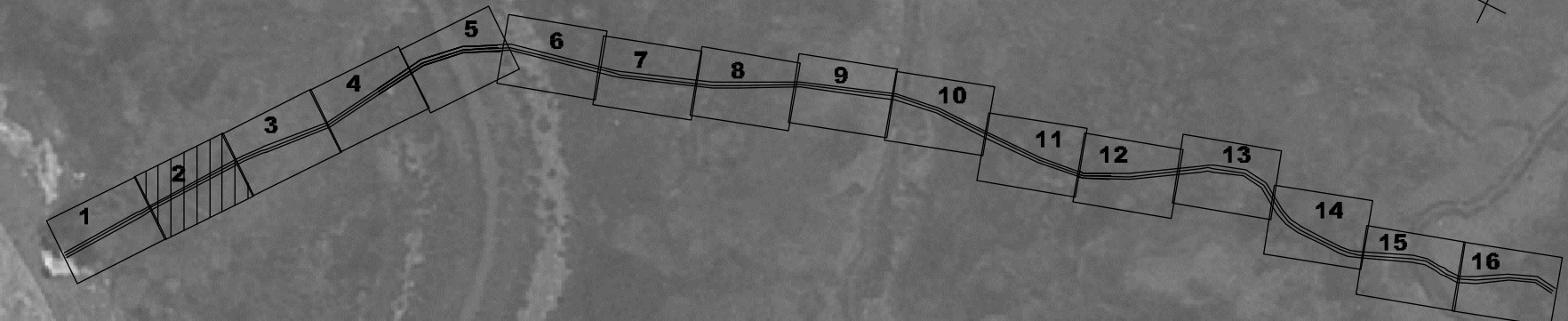
HORIZONTAL GPS CONTROL
PRIMARY: RTK GPS VIA VRS NETWORK
SECONDARY: CG D-BEACON



SUBMITTED:	Survey Station Item Leader	CHECKED BY:	TVM	EWC
	APPROVAL RECOMMENDED:		SHEET NO.	DRAWING NO.
	Chart, Technical Support Section	DATE:	2 OF 16	4 2 XXX
	APPROVED:	PREPARED UNDER THE DIRECTION OF LAURENCE M. FARRELL LT. COLONEL, C.E., DISTRICT ENGINEER		
	Chart, Construction Branch			

CALIFORNIA
CONTRA COSTA COUNTY
SUISUN BAY CHANNEL
BULLSHEAD CHANNEL
POSTDRUDGE SURVEY
12 JUNE 2009

Sheet reference number
C2



WATCHLINE - SHEET 1

MATCHLINE - SHEET 3