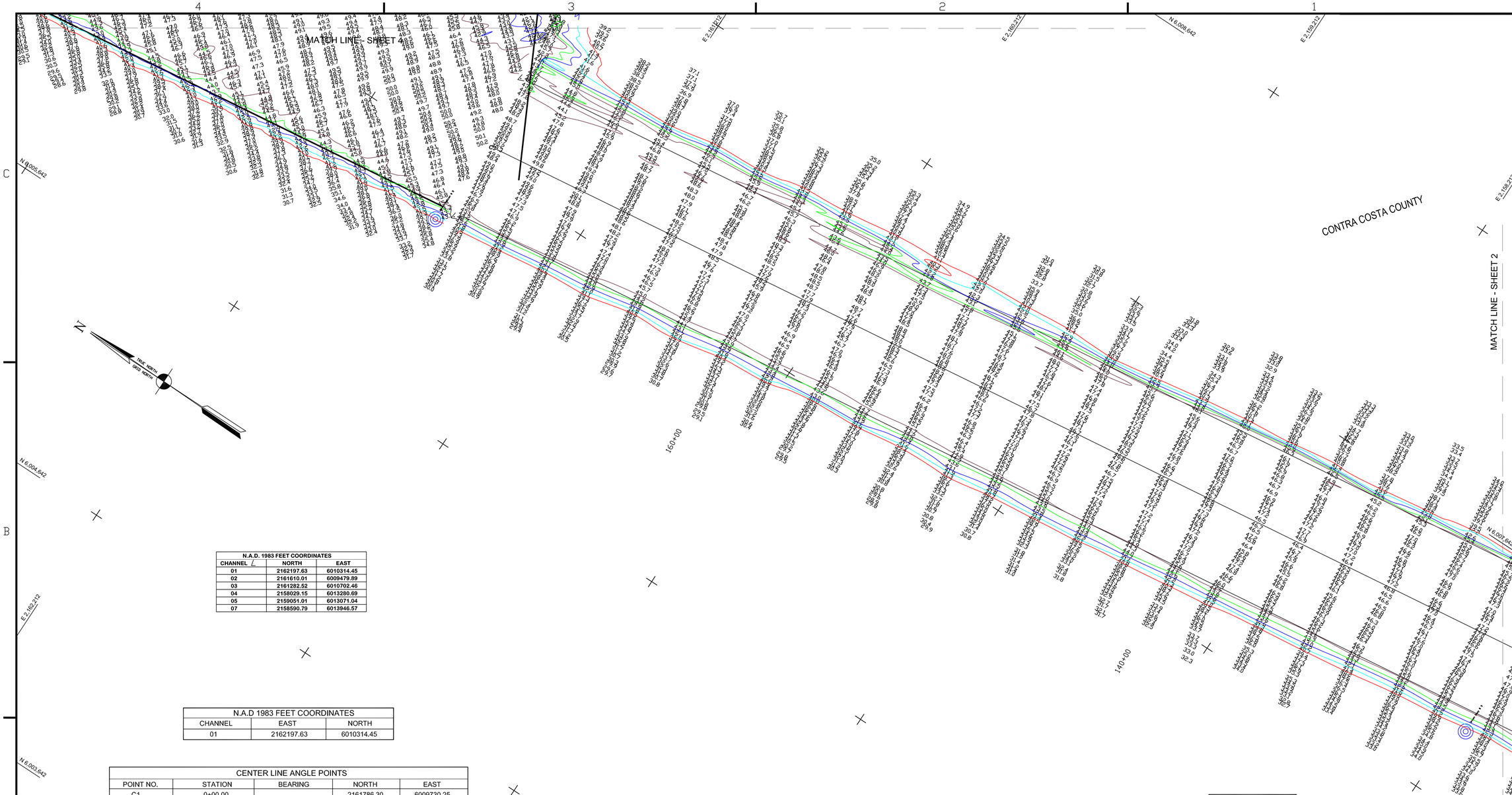
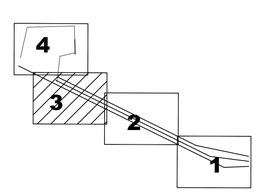


N.A.D. 1983 FEET COORDINATES		
CHANNEL ℄	NORTH	EAST
01	2162197.63	6010314.45
02	2161610.01	6009479.89
03	2161282.52	6010702.46
04	2158029.15	6013280.69
05	2159051.01	6013071.04
07	2158590.79	6013946.57

N.A.D 1983 FEET COORDINATES		
CHANNEL	EAST	NORTH
01	2162197.63	6010314.45

CENTER LINE ANGLE POINTS				
POINT NO.	STATION	BEARING	NORTH	EAST
C1	0+00.00		2161786.30	6009730.25
		S46°42'24.5"E		
C2	43+48.29		2158804.54	6013451.95
		S53°39'39.4"E		
C3	50+39.49		2158394.96	6013451.95
		S70°51'04.3"E		
C4	53+82.39		2158282.48	6013775.88
		S80°16'57.4"E		
C5	149+24.87		2156671.82	6023181.44
		N81°09'53.0"E		
C6	163+42.37		2156889.54	6024582.12
		N23°06'30.3"E		
C7	167+82.88		2157294.71	6024755.01
		N11°28'48.0"W		
C8	193+37.72		2159798.44	6024246.53
		N04°19'32.9"W		
C9	213+55.02		2161809.99	6024094.37
		N64°00'59.8"W		
C10	217+21.09		2161970.37	6023765.30
		N49°51'28.9"W		
C11	237+75.69		2163294.94	6022194.66



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

GRAPHICS SCALE 1" = 200'

200' 0 100' 200' 400' 800'

US Army Corps of Engineers
San Francisco District
333 Market Street
San Francisco, CA 94105

Mark	Description	Date	Appr.

DESIGNED BY: | CHECKED BY: TVW | DRAWN BY: EWC
DATE: 5/11/2006 | SHEET NO. 3 OF 4 | DRAWING NO. 9 | 2 | 344

PREPARED UNDER THE DIRECTION OF
PHILIP T. FEIR
LT. COLONEL, C.E., DISTRICT ENGINEER

SUBMITTED:
Hydr. Survey Team Leader
APPROVAL RECOMMENDED:
Chief, Technical Support Section
APPROVED:
Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND HARBOR
SOUTH HAMPTON SHOALS
PREDREDGE SURVEY
05 & 09 MAY 2006

Sheet reference number
C3