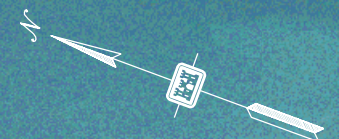
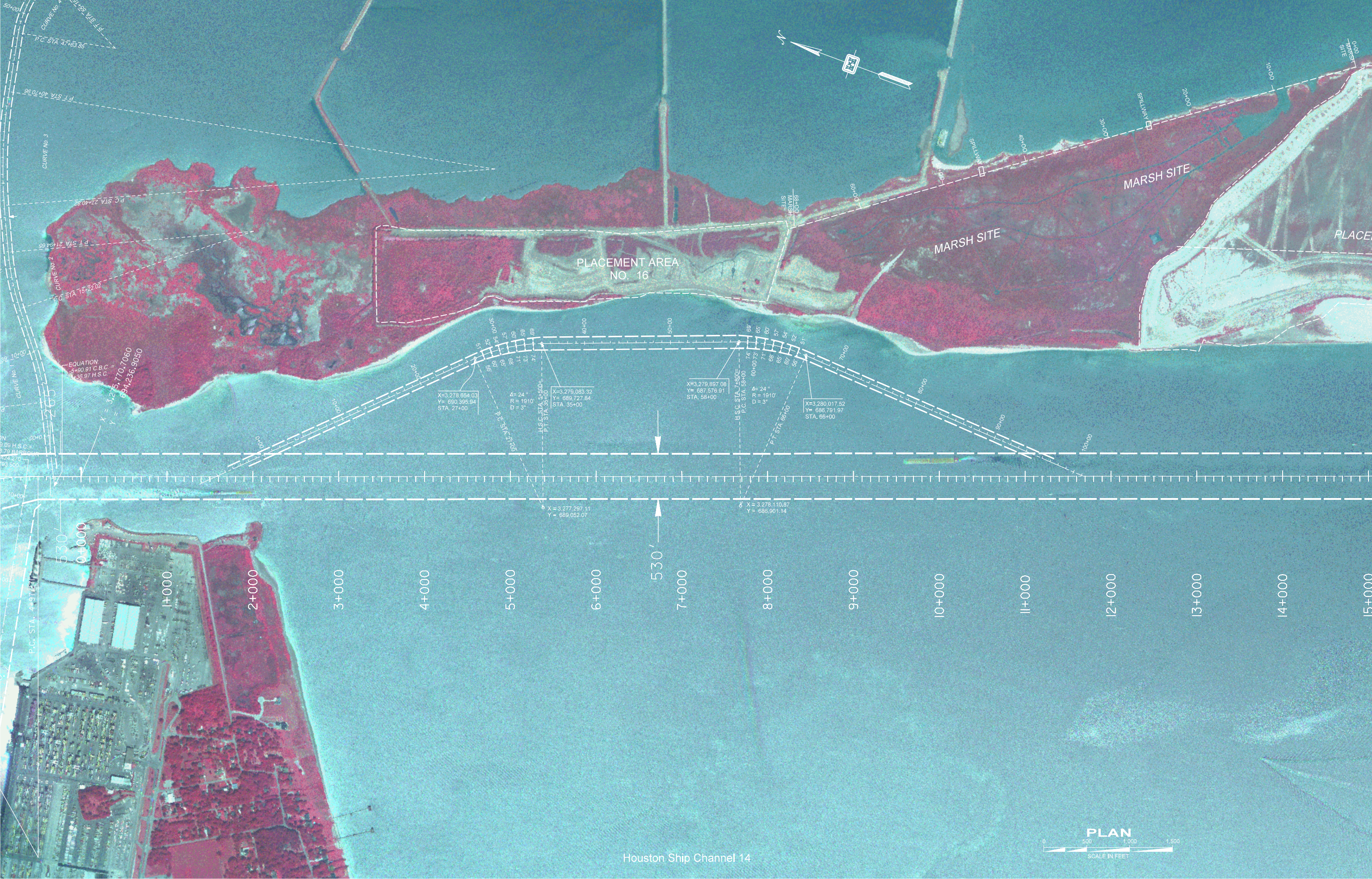




US Army Corps
of Engineers®
Galveston District

Houston Ship Channel Beacon 76 to Morgan's Point





PLACEMENT AREA
NO. 16

MARSH SITE

MARSH SITE

PLACE

EQUATION:
5+90.91 C.B.C.
3+36.97 H.S.C.

X = 3,275,770.7060
Y = 694,236.9050

X=3,278,654.03
Y= 690,395.94
STA. 27+00

A= 24°
R= 1910'
D= 3°

X=3,279,083.32
Y= 689,727.84
STA. 35+00

X=3,279,897.08
Y= 687,576.91
STA. 58+00

X=3,280,017.52
Y= 686,781.37
STA. 66+00

X= 3,277,297.11
Y= 689,052.07

X= 3,278,110.87
Y= 686,901.14

P.C. STA. 4+97.27

530'

530'

1+000

2+000

3+000

4+000

5+000

6+000

7+000

8+000

9+000

10+000

11+000

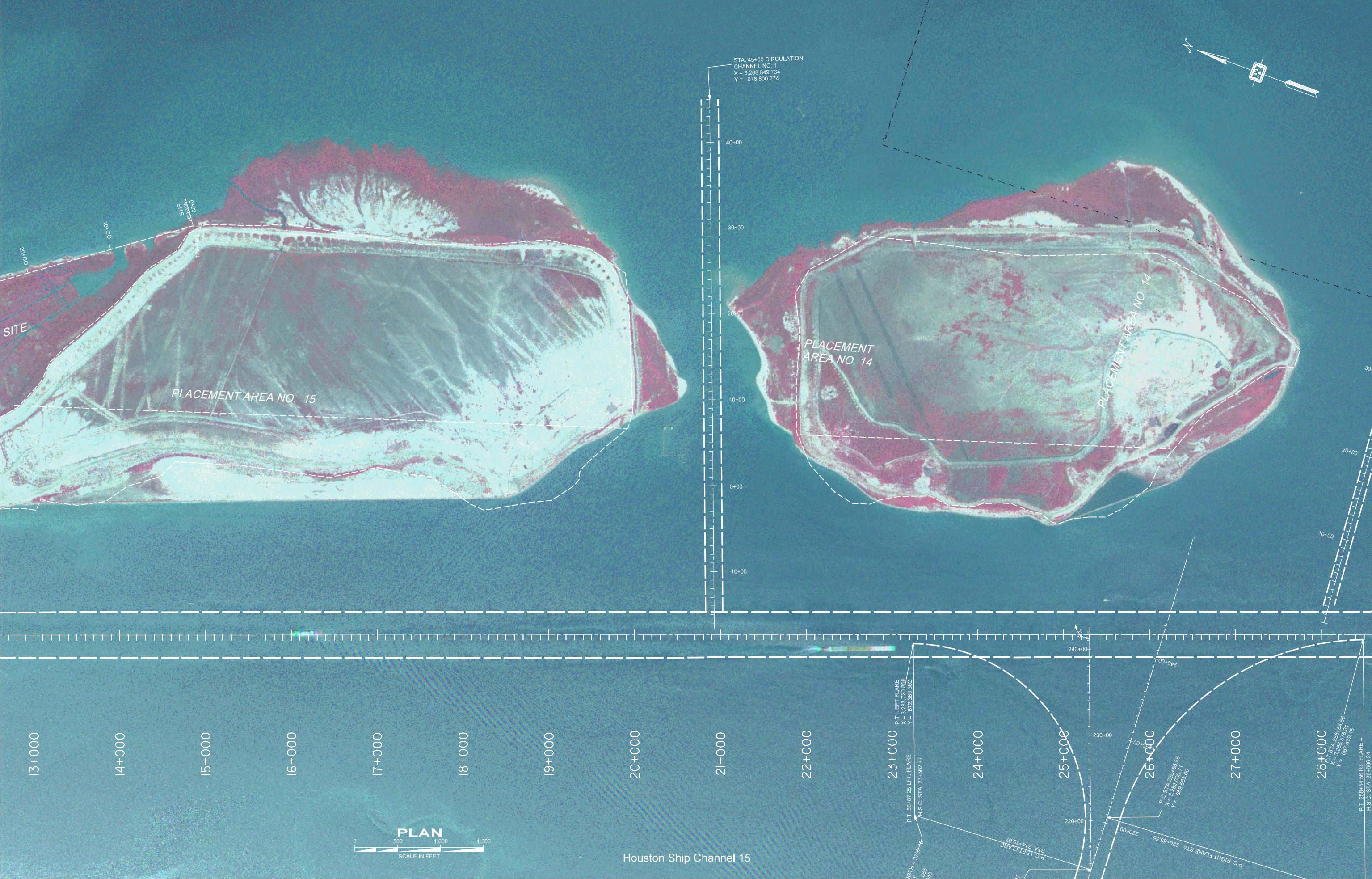
12+000

13+000

14+000

15+000





STA. 45+00 CIRCULATION
CHANNEL NO. 1
X = 3,288,849.734
Y = 676,800.274

PLACEMENT AREA NO. 15

PLACEMENT AREA NO. 14

PLACEMENT AREA NO. 14

13+000

14+000

15+000

16+000

17+000

18+000

19+000

20+000

21+000

22+000

23+000

24+000

25+000

26+000

27+000

28+000



Houston Ship Channel 15

P.T. LEFT FLARE
X = 3,283,720.869
Y = 672,393.362

P.T. 56+87.25 LFT. FLARE =
X = 3,283,720.869
Y = 672,393.362

H.S.C. STA. 23+362.77

P.C. STA. 220+65.55
X = 3,288,600.71
Y = 689,553.00

P.T. STA. 28+64.55
X = 3,285,570.31
Y = 687,470.76

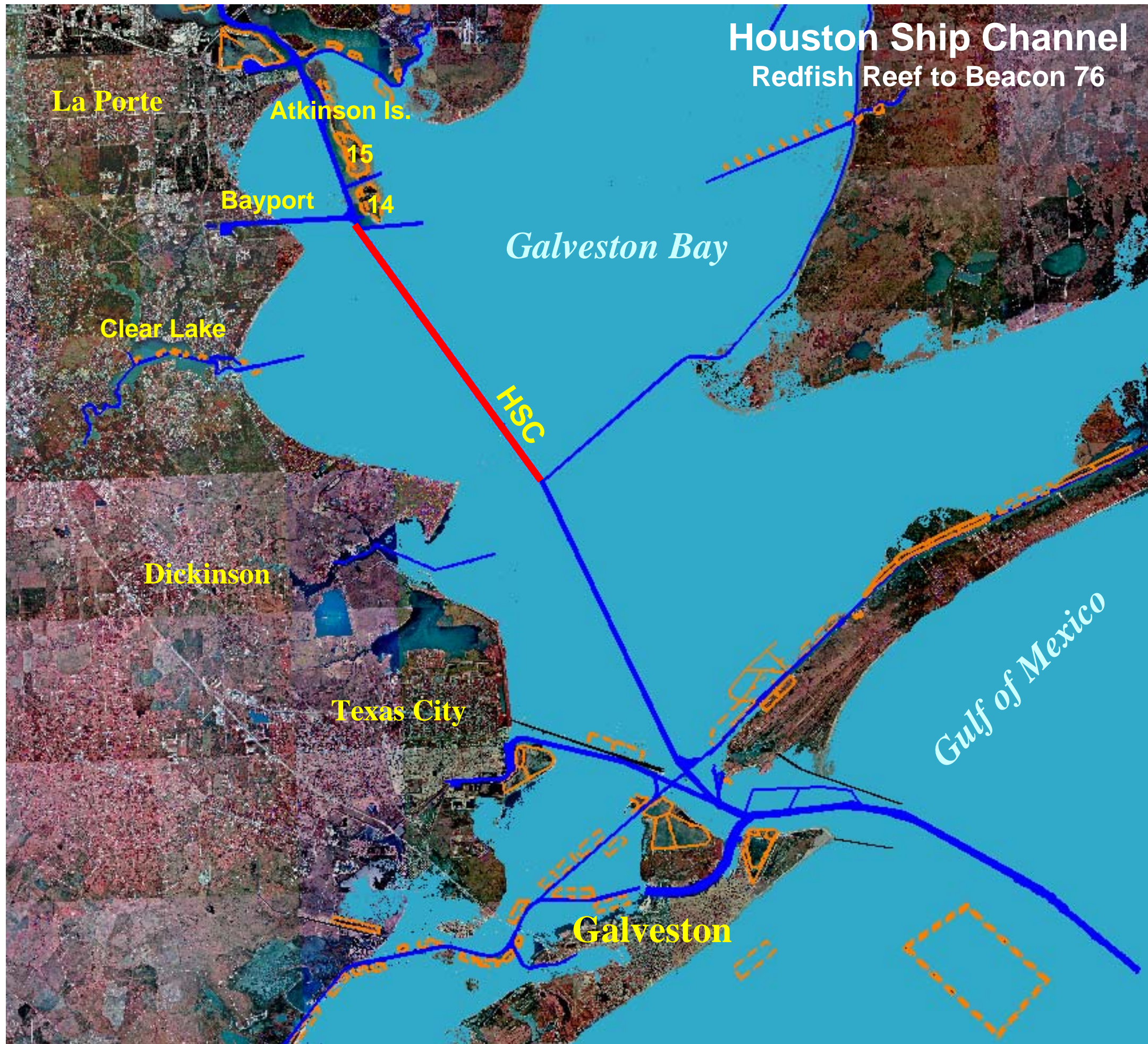
P.T. 258+54.55 RT. FLARE =
H.S.C. STA. 28+605.24

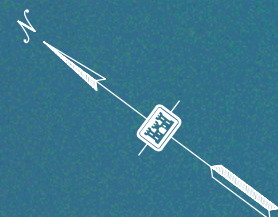
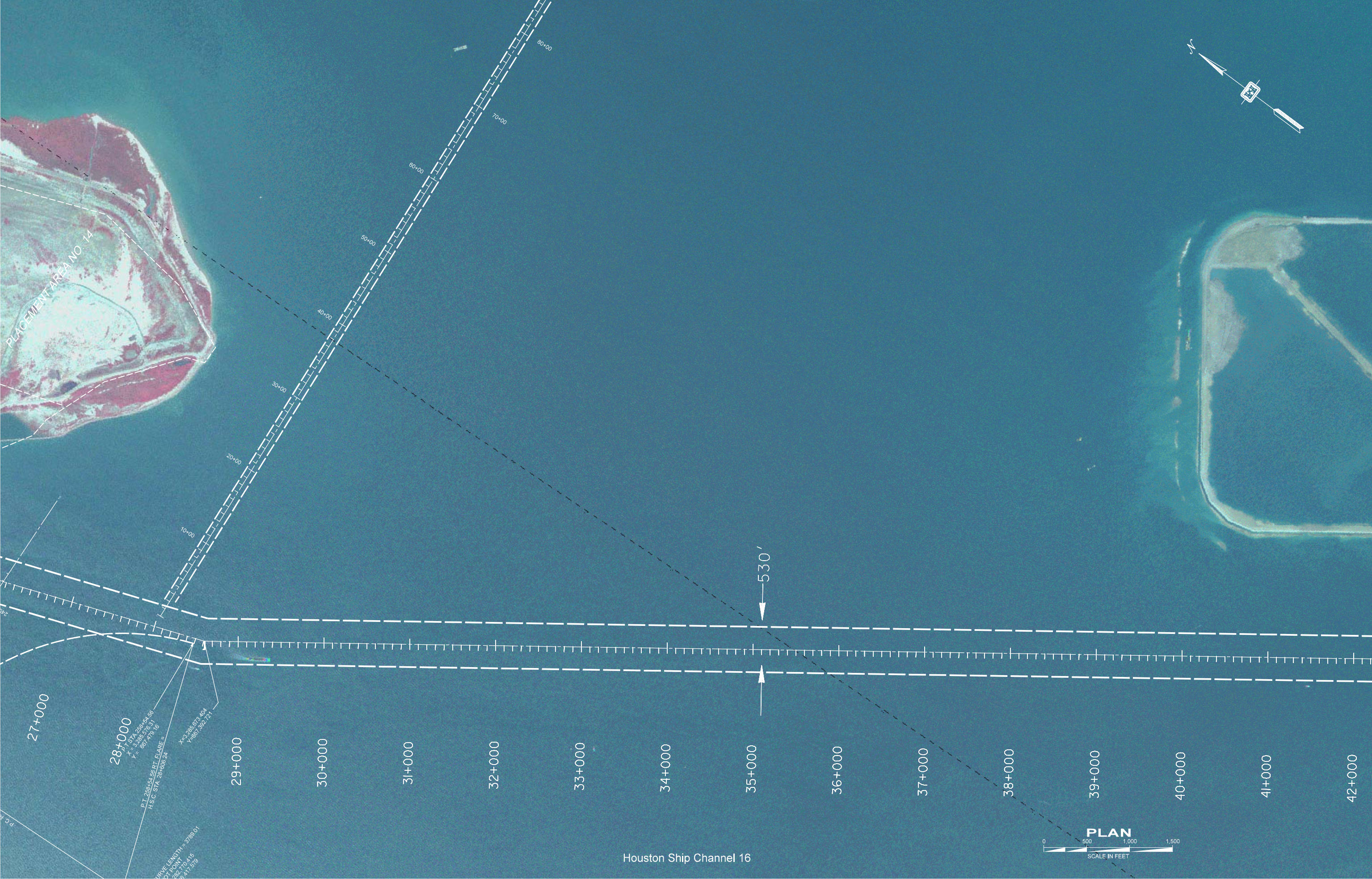
P.C. LEFT FLARE STA. 214+30.07

P.C. RIGHT FLARE STA. 220+65.55



US Army Corps
of Engineers®
Galveston District





PLACEMENT AREA NO. 14

27+000

28+000

29+000

30+000

31+000

32+000

33+000

34+000

35+000

36+000

37+000

38+000

39+000

40+000

41+000

42+000

PT. 1 STA. 238+44.86
X = 857,479.76
Y = 857,479.76

PT. 2 STA. 238+44.86
X = 857,479.76
Y = 857,479.76

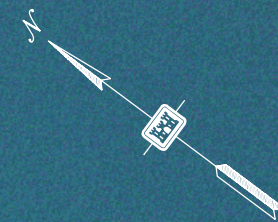
PT. 3 STA. 238+44.86
X = 857,479.76
Y = 857,479.76

PC STA. 278+00.00
PT. 1 STA. 278+00.00
X = 857,479.76
Y = 857,479.76

Houston Ship Channel 16



PLAN



HOUSTON SHIP CHANNEL

41+000

42+000

43+000

44+000

45+000

46+000

47+000

48+000

49+000

50+000

51+000

52+000

53+000

54+000

55+000

56+000





55+000

56+000

57+000

58+000

59+000

60+000

61+000

62+000

63+000

64+000

65+000

66+000

67+000

68+000

69+000

70+000

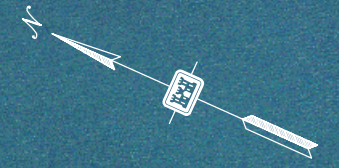
Houston Ship Channel 18





US Army Corps
of Engineers®
Galveston District





HOUSTON SHIP CHANNEL



96+000

97+000

98+000

99+000

100+000

101+000

102+000

103+000

104+000

105+000

106+000

107+000

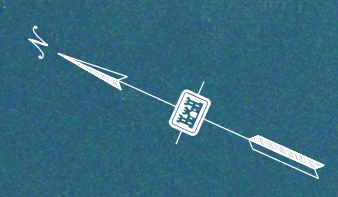
108+000

109+000

110+000

111+000





HOUSTON SHIP CHANNEL

110+000

111+000

112+000

113+000

114+000

115+000

116+000

117+000

118+000

119+000

120+000

121+000

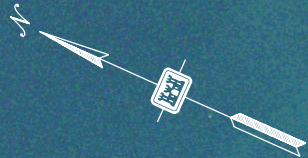
122+000

123+000

124+000

125+000





END BAY REACH STA 1
BEGIN BOLIVAR ROADS C
X = 3,343,535.560
Y = 574,841.361

P.I. STA. 128+728.999
X = 3,336,872.623
Y = 581,805.041

124+000
125+000
126+000
127+000
128+000

129+000
130+000
131+000
132+000

133+000
134+000
135+000
136+000
137+000
138+000

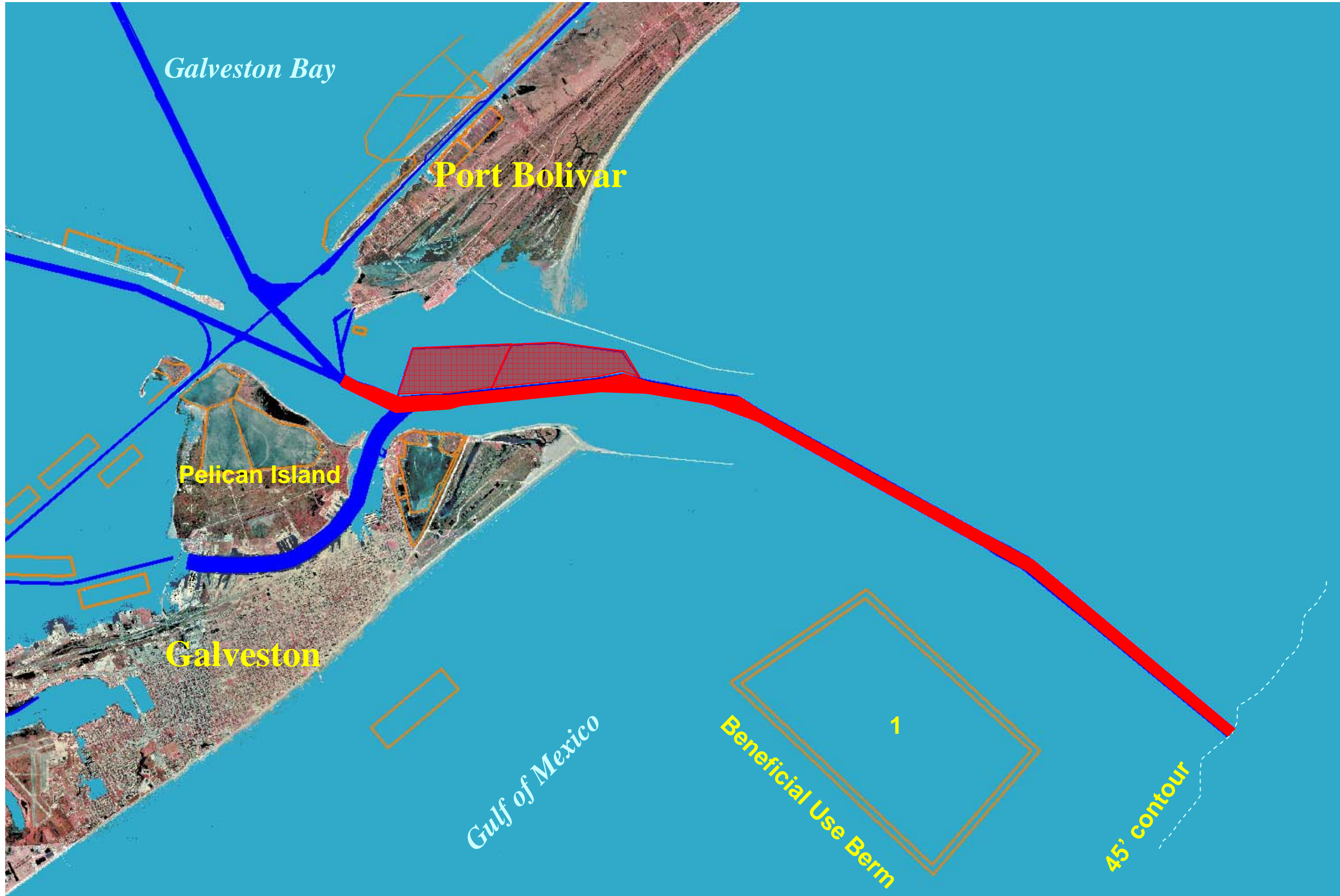
139+000
140+000





US Army Corps
of Engineers®
Galveston District

Galveston / Houston Ship Channel Entrance Channel





4120.0' O/S
X = 3,356,392.93
Y = 576,044.73

STA. I.B.C. 6+350.58
X = 3,348,897.12
Y = 577,267.36

13+886.62
3,587.02' O/S
X = 3,356,447.77
Y = 577,514.55

END BAY REACH STA 138+366.818 =
BEGIN BOLIVAR ROADS CHANNEL STA 0+000

X = 3,343,535.560
Y = 574,841.361

P.I. STA 4+490.072 =
G.H.C. STA 2+312.71

X = 3,347,628.98
Y = 572,996.19

SHALLOW ANCHORAGE AREA

STA 6+700 BEGIN
TRANSITION

STA 7+800 END
TRANSITION

STA 9+239.66
END TRANSITION
STA 8+016.62
BEGIN TRANSITION

INNER BAR CHANNEL



17+292
3,358.02 O/S
X = 3,359,858.86
Y = 577,637.19

21+912.87
2,200 O/S
X = 3,364,888.79
Y = 576,990.64

P.I. STA. 21+752.72
X = 3,364,800.00
Y = 574,772.41

ANCHORAGE AREA

15+000

16+000

17+000

18+000

19+000

20+000

21+000

22+000

23+000

24+000

25+000

26+000

27+000

28+000

29+000

OUTER BAR CHANNEL

800'

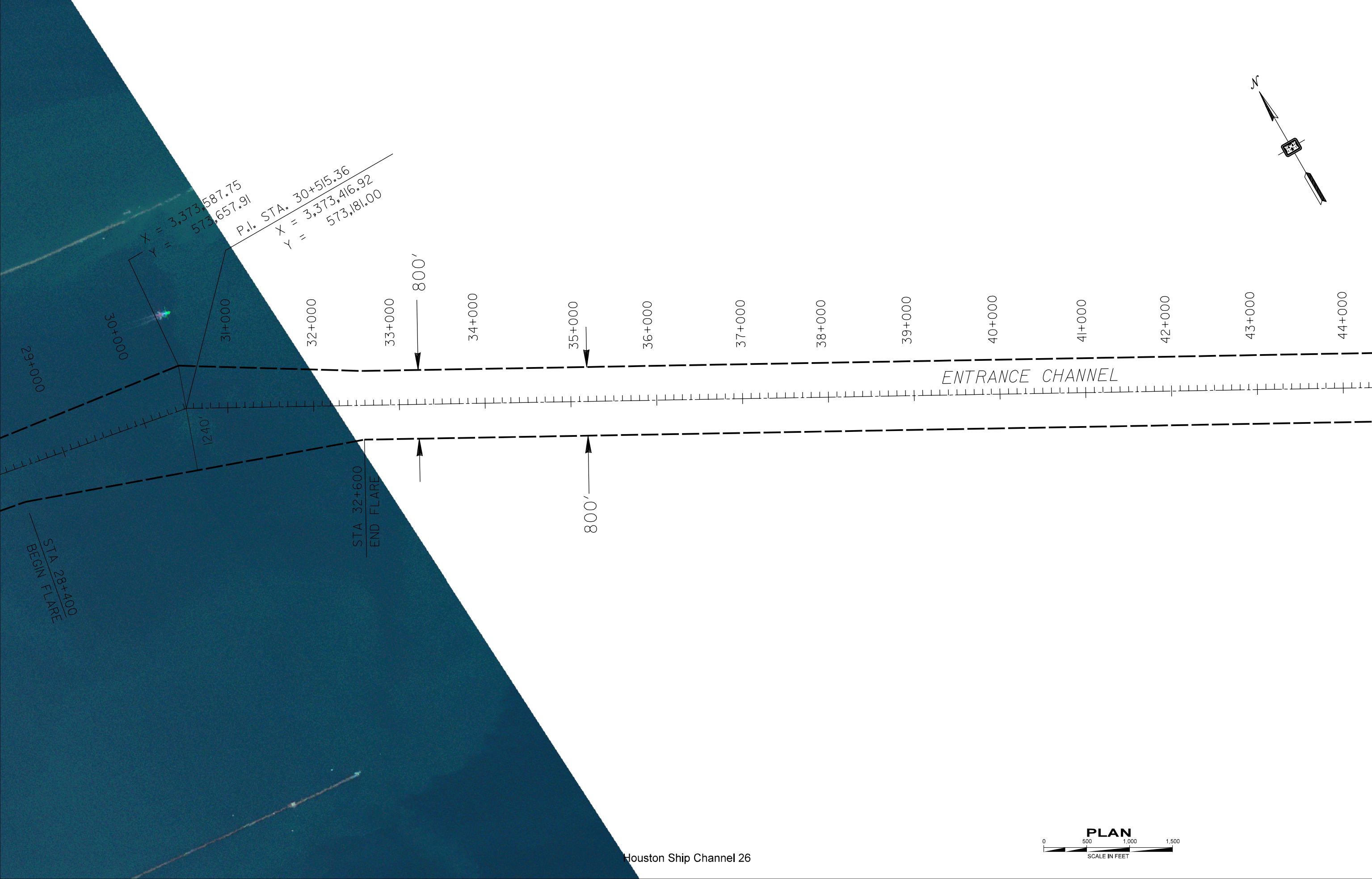
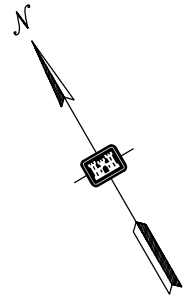
STA 19+800
BEGIN FLARE

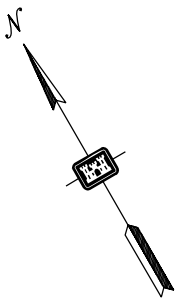
STA 23+800
END FLARE

800'

STA 28+400
BEGIN FLARE







43+000 44+000 45+000 46+000 47+000 48+000 49+000 50+000 51+000 52+000 53+000 54+000 55+000 56+000 57+000 58+000



800'

STA 52+400
BEGIN TRANSITION

STA 53+500
END TRANSITION

1000'

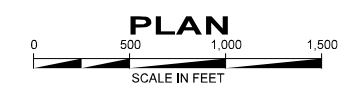
1000'

STA 55+840.35 END
EXISTING CHANNEL

P.I. STA. 55+840.35
X = 3,395,576.72
Y = 560,921.36

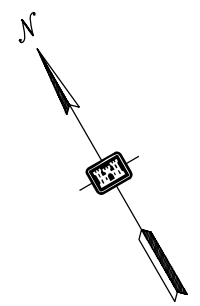
1.3 NAU. MI.

Houston Ship Channel 27



PLAN

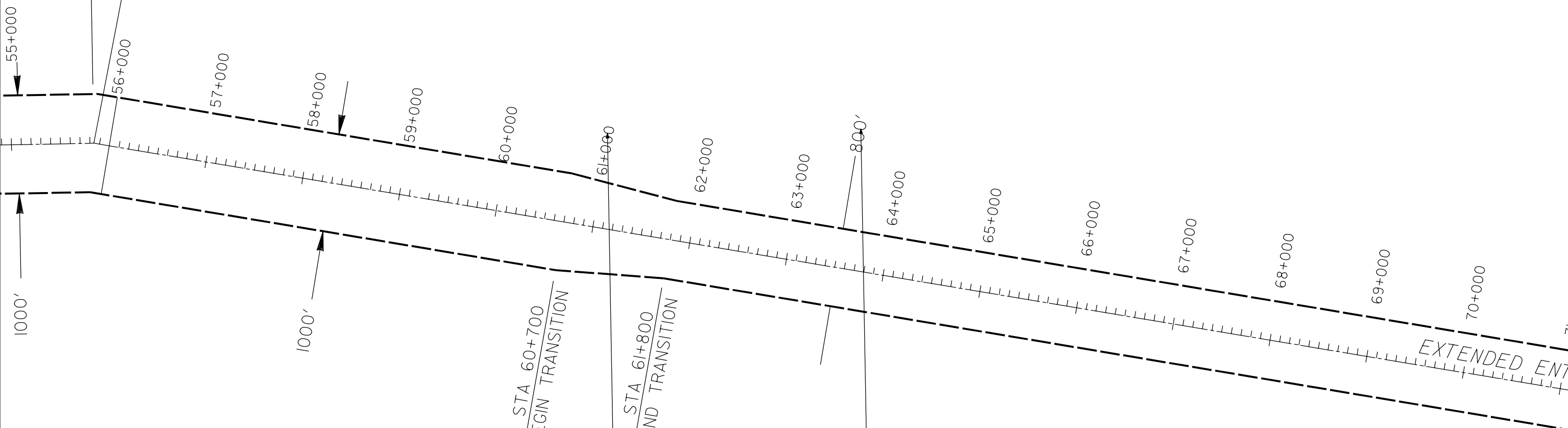
SCALE IN FEET



STA 55+840.35 END
EXISTING CHANNEL

P.I. STA. 55+840.35

X = 3,395,576.72
Y = 560,921.36



Houston Ship Channel 28



