FLOOD INSURANCE STUDY



GALVESTON COUNTY, TEXAS,
AND INCORPORATED AREAS

VOLUME 3 OF 5

Community Name	Community Number
BAYOU VISTA, CITY OF	481589
CLEAR LAKE SHORES, CITY OF	485461
DICKINSON, CITY OF	481569
FRIENDSWOOD, CITY OF	485468
GALVESTON, CITY OF	485469
HITCHCOCK, CITY OF	485479
JAMAICA BEACH, CITY OF	481271
KEMAH, CITY OF	485481
LA MARQUE, CITY OF	485486
LEAGUE CITY, CITY OF	485488
SANTA FE, CITY OF	481562
TEXAS CITY, CITY OF	485514
TIKI ISLAND, VILLAGE OF	481585
GALVESTON COUNTY (UNINCORPORATED AREAS)	485470



EFFECTIVE DATE:
August 15, 2019

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
48167CV003A

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

The Federal Emergency Management Agency (FEMA) may revise and republish part or all of this FIS report at any time. In addition, part of this FIS may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the Community Map Repository to obtain the most current FIS components.

Selected Flood Insurance Rate Map panels for this community contain information that was previously shown separately on the corresponding Flood Boundary and Floodway Map panels (e.g., floodways, cross sections). In addition, former flood hazard zone designations have been changed as follows:

Old Zone(s)	New Zone
A1 through A30	AE
V1 through V30	VE
B	X
C	X

Part or all of the Flood Insurance Study may be revised and republished at any time. In addition, part of this Flood Insurance Study may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the Flood Insurance Study. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current Flood Insurance Study components.

Initial Countywide FIS Effective Date: August 15, 2019

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Benson Bayou	Panel	01P
Borden's Gully	Panels	02P – 03P
Cedar Gully	Panel	04P
Chigger Creek	Panels	05P – 10P
Clear Creek	Panels	11P – 15P

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Cowart Creek	Panel	16P – 18P
Dickinson Bayou	Panels	19P – 23P
Gum Bayou	Panel	24P
Halls Road Ditch	Panel	24(a)P
Highland Bayou	Panel	25P
Interurban Ditch	Panel	26P
Landing Ditch	Panels	27P – 28P
Lower Highland Bayou	Panels	29P – 30P
Magnolia Bayou	Panels	31P – 32P
Magnolia Creek	Panel	33(a)P – 33(b)P
Marchand Bayou	Panels	34P – 35P
Mary's Creek	Panels	36P – 37P
Robinson Bayou	Panels	38P – 39P
Tributary to Gum Bayou	Panel	40P
Tributary to Magnolia Creek	Panel	41P

Tributary 0.16 to Turkey Creek	Panel	41(a)P
Turkey Creek	Panel	41(b)P
Unnamed Tributary 1 to Lower Highland Bayou	Panel	42P
Unnamed Tributary 2 to Lower Highland Bayou	Panel	43P
Unnamed Tributary 3 to Lower Highland Bayou	Panel	44P
Unnamed Tributary 3 Diversion Channel to Lower Highland Bayou	Panel	45P
Unnamed Tributary of Clear Creek	Panel	46P
Unnamed Tributary to Dickinson Bayou (East Branch)	Panel	47P
Unnamed Tributary to Dickinson Bayou (West Branch)	Panel	48P

Exhibit 2 – 0.2-Percent-Annual-Chance Wave Envelopes

Transect 1	Panel	01P
Transect 2	Panel	02P
Transect 3	Panel	03P
Transect 4	Panel	04P
Transect 5	Panel	05P
Transect 6	Panel	06P
Transect 7	Panels	07P – 08P
Transect 8	Panels	09P – 10P
Transect 9	Panels	11P – 12P
Transect 10	Panels	13P – 14P
Transect 11	Panels	15P – 16P
Transect 12	Panels	17P – 19P
Transect 13	Panels	20P – 22P
Transect 14	Panels	23P – 25P
Transect 15	Panels	26P – 28P
Transect 16	Panels	29P – 31P
Transect 17	Panels	32P – 34P
Transect 18	Panels	35P – 37P
Transect 19	Panels	38P – 40P
Transect 20	Panels	41P – 43P
Transect 21	Panels	44P – 47P
Transect 22	Panels	48P – 51P
Transect 23	Panels	52P – 55P

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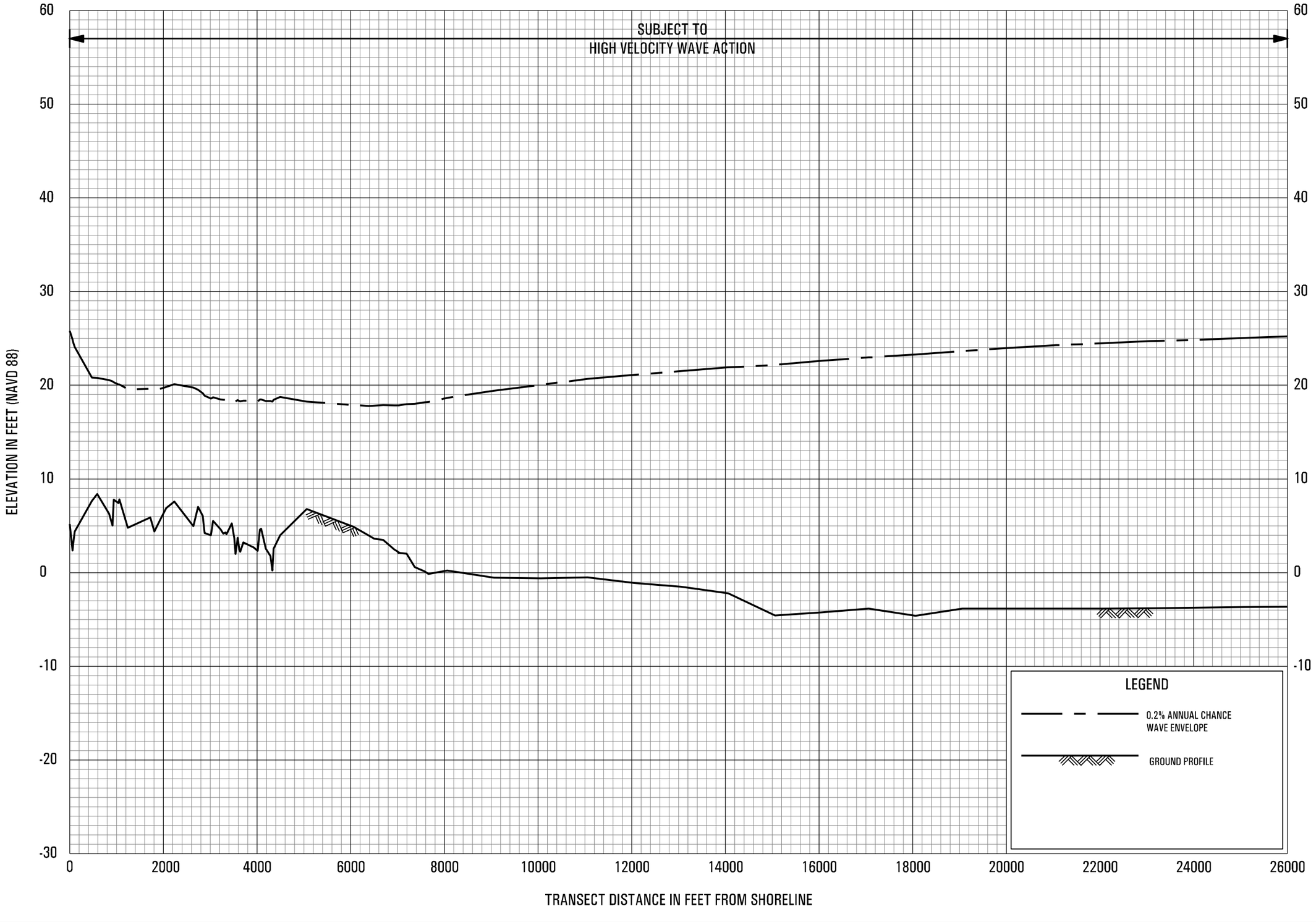
Transect 24	Panels	56P – 59P
Transect 25	Panels	60P – 63P
Transect 26	Panels	64P – 67P
Transect 27	Panels	68P – 70P
Transect 28	Panels	71P – 73P
Transect 29	Panels	74P – 76P
Transect 30	Panels	77P – 79P
Transect 30A	Panel	79P-1
Transect 30B	Panel	79P-2
Transect 30C	Panels	79P-3 – 79P-4
Transect 30D	Panels	79P-5 – 79P-6
Transect 31	Panels	80P – 83P
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Transect 31C	Panels	83P-5 – 83P-6
Transect 32	Panels	84P – 87P
Transect 33	Panels	88P – 91P
Transect 34	Panels	92P – 94P
Transect 35	Panels	95P – 98P
Transect 36	Panels	99P – 102P
Transect 37	Panels	103P – 104P
Transect 38	Panels	105P – 108P
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Transect 40	Panels	113P – 116P
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Transect 50	Panels	149P – 150P
Transect 51	Panels	151P – 152P
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Transect 53	Panels	155P – 157P
Transect 54	Panels	158P – 160P
Transect 55	Panels	161P – 163P
Transect 56	Panels	164P – 166P
Transect 57	Panels	167P – 169P
Transect 58	Panels	170P – 172P
Transect 59	Panels	173P – 175P
Transect 60	Panels	176P – 178P
Transect 61	Panels	179P – 180P
Transect 62	Panels	181P – 182P
Transect 63	Panel	183P
Transect 64	Panels	184P – 185P
Transect 65	Panels	186P – 187P
Transect 66	Panel	188P
Transect 67	Panel	189P
Transect 68	Panel	190P
Transect 69	Panels	191P – 192P
Transect 70	Panels	193P – 194P
Transect 71	Panels	195P – 196P
Transect 72	Panels	197P – 198P
Transect 73	Panels	199P – 201P
Transect 74	Panels	202P – 204P
Transect 75	Panels	205P – 207P
Transect 76	Panels	208P – 210P
Transect 77	Panels	211P – 213P
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Transect 79	Panels	216P – 217P
Transect 80	Panels	218P – 219P
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Transect 84	Panels	226P – 227P
Transect 85	Panels	228P – 229P
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Exhibit 3 – Flood Insurance Rate Map Index
Flood Insurance Rate Maps



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

56P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

57P

SUBJECT TO HIGH VELOCITY WAVE ACTION

* ABOVE SURGE

* ABOVE SURGE

ELEVATION IN FEET (NAVD 88)

60
50
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30
20
10
0
-10
-20
-30

52000 54000 56000 58000 60000 62000 64000 66000 68000 70000 72000 74000 76000 78000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

* THE GROUND PROFILE IN ABOVE SURGE AREAS DOES NOT SHOW ACTUAL TOPOGRAPHIC CONDITIONS.

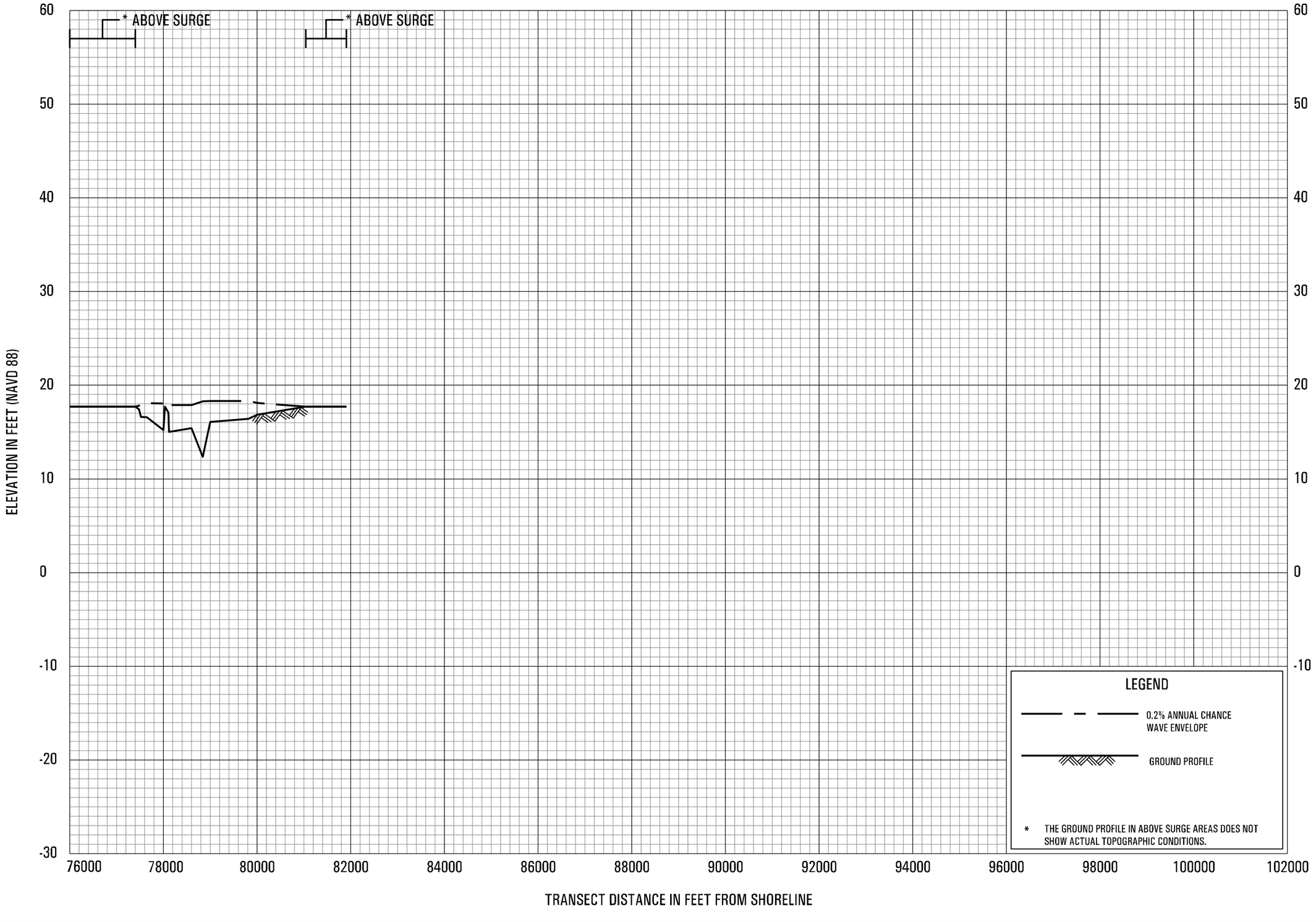
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

58P



0.2% ANNUAL CHANCE WAVE ENVELOPE

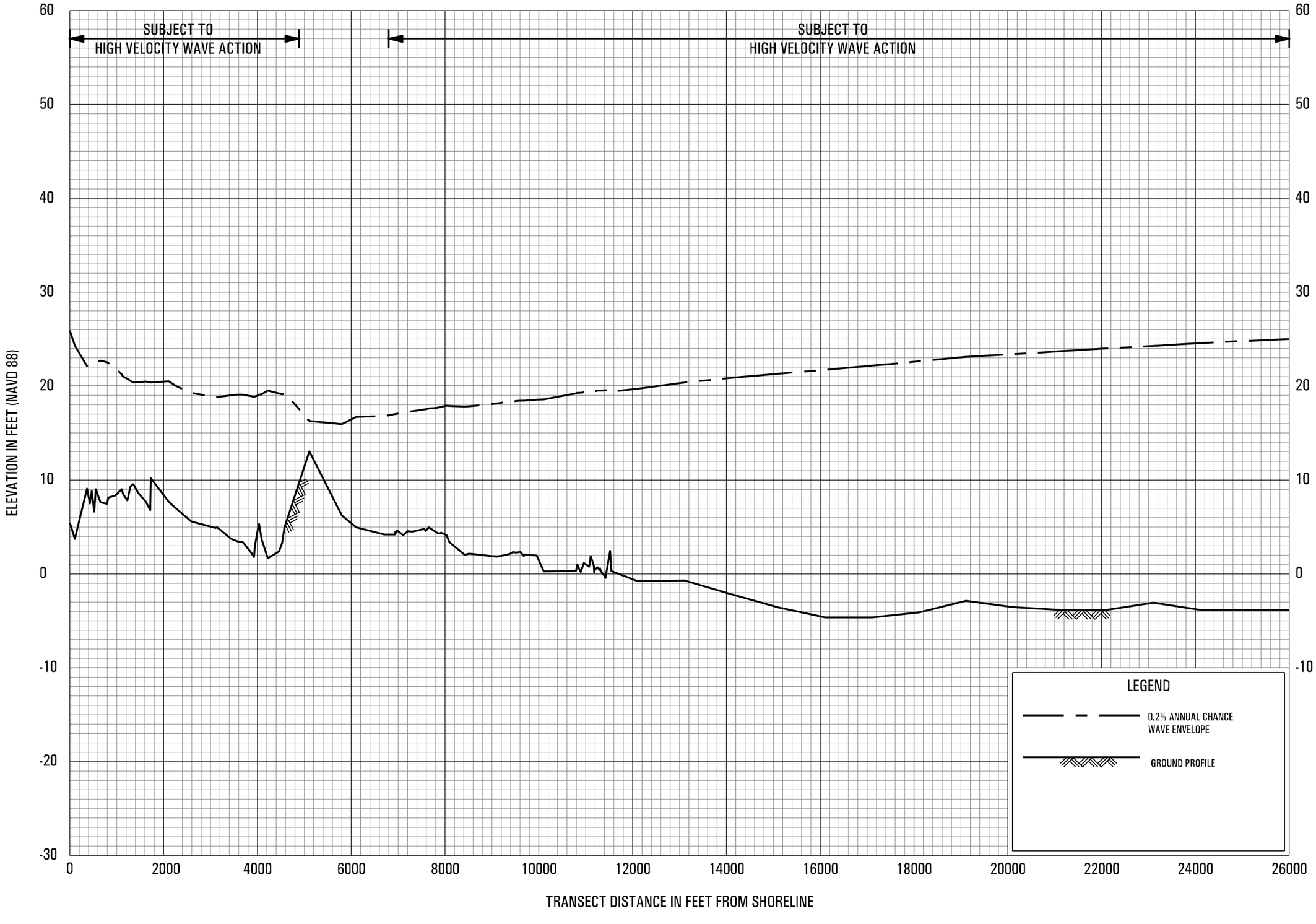
TRANSECT 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

59P



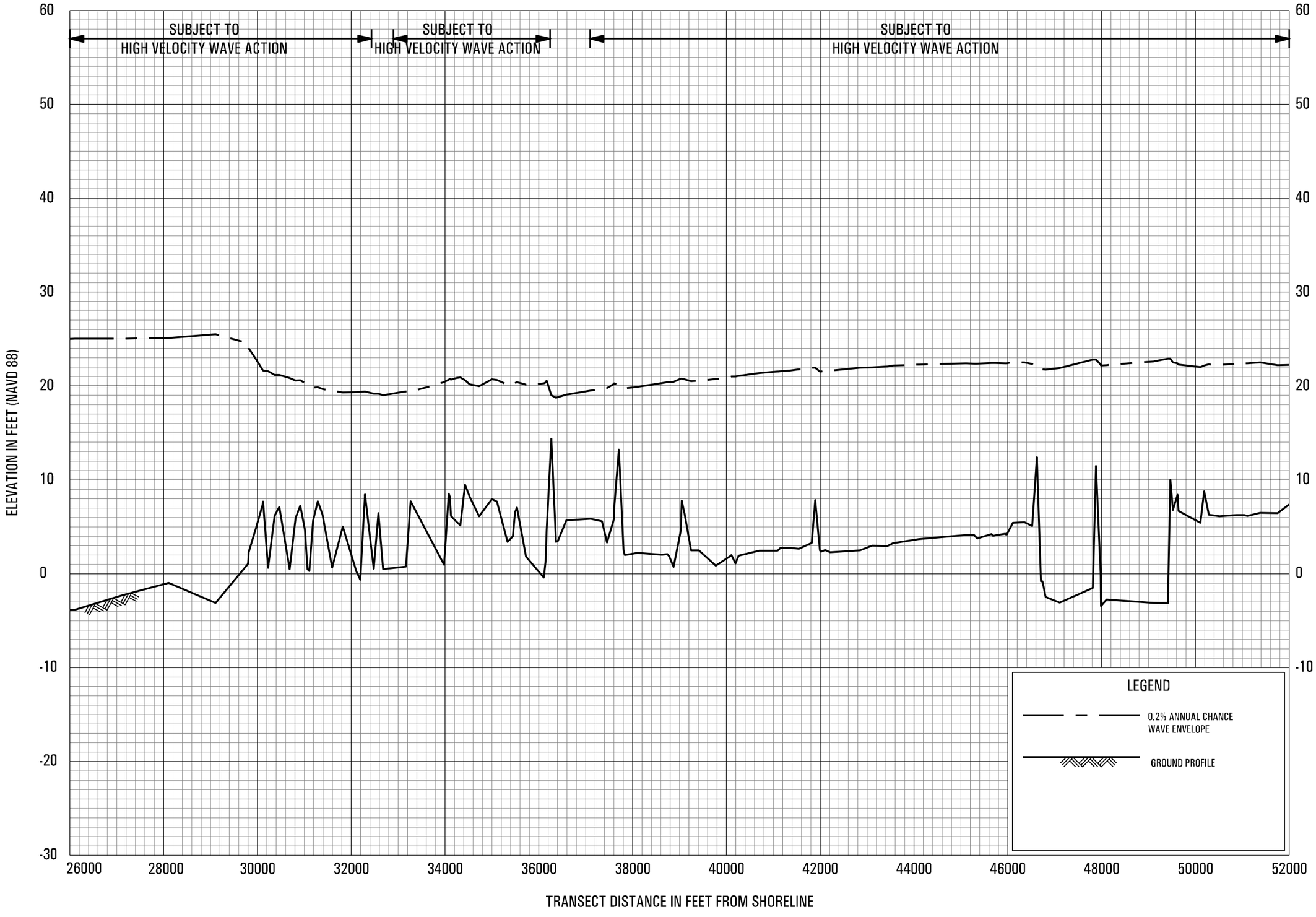
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 25

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

60P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 25

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

61P

SUBJECT TO HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
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-10
-20
-30

52000 54000 56000 58000 60000 62000 64000 66000 68000 70000 72000 74000 76000 78000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

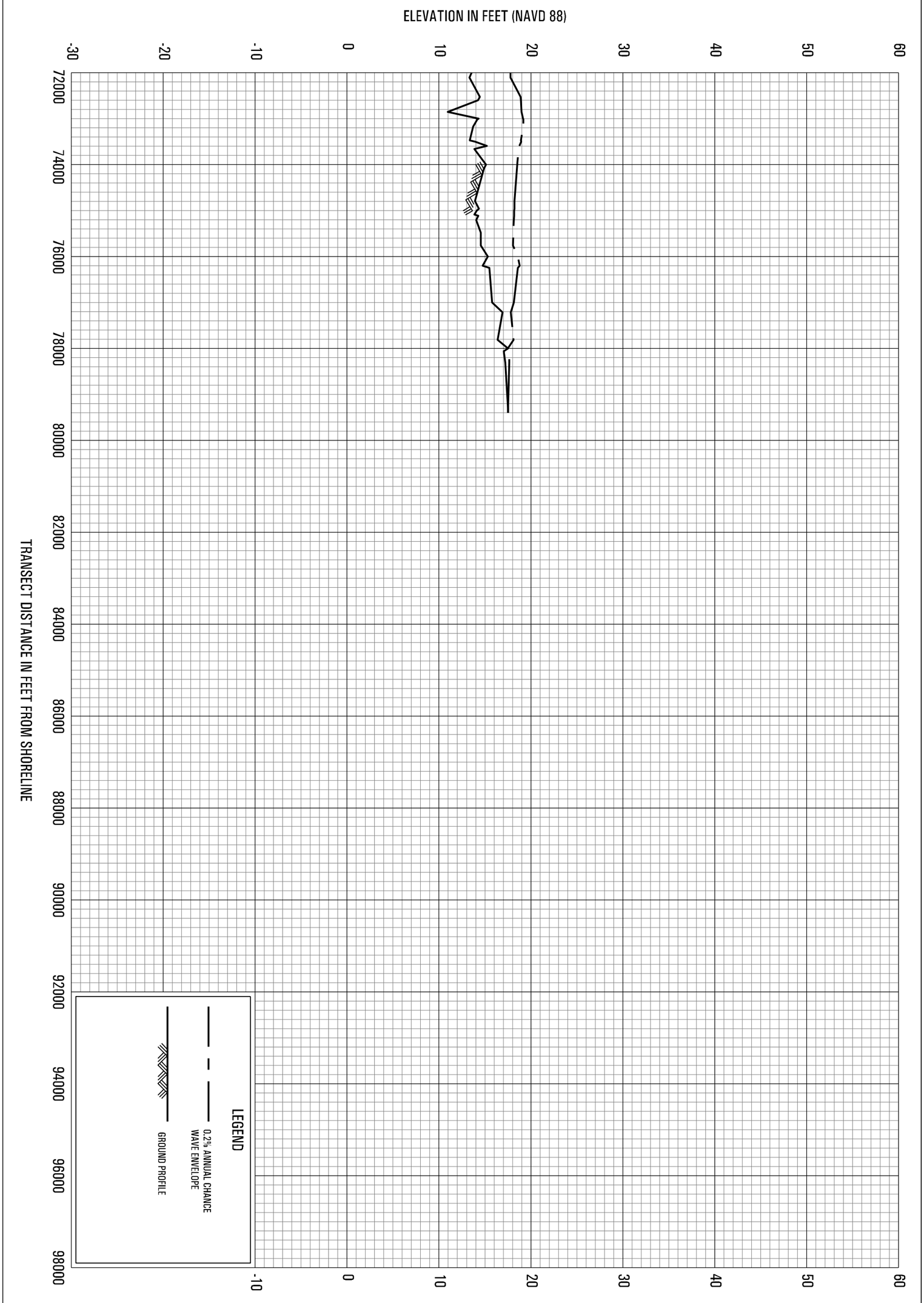
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 25

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

62P



63P

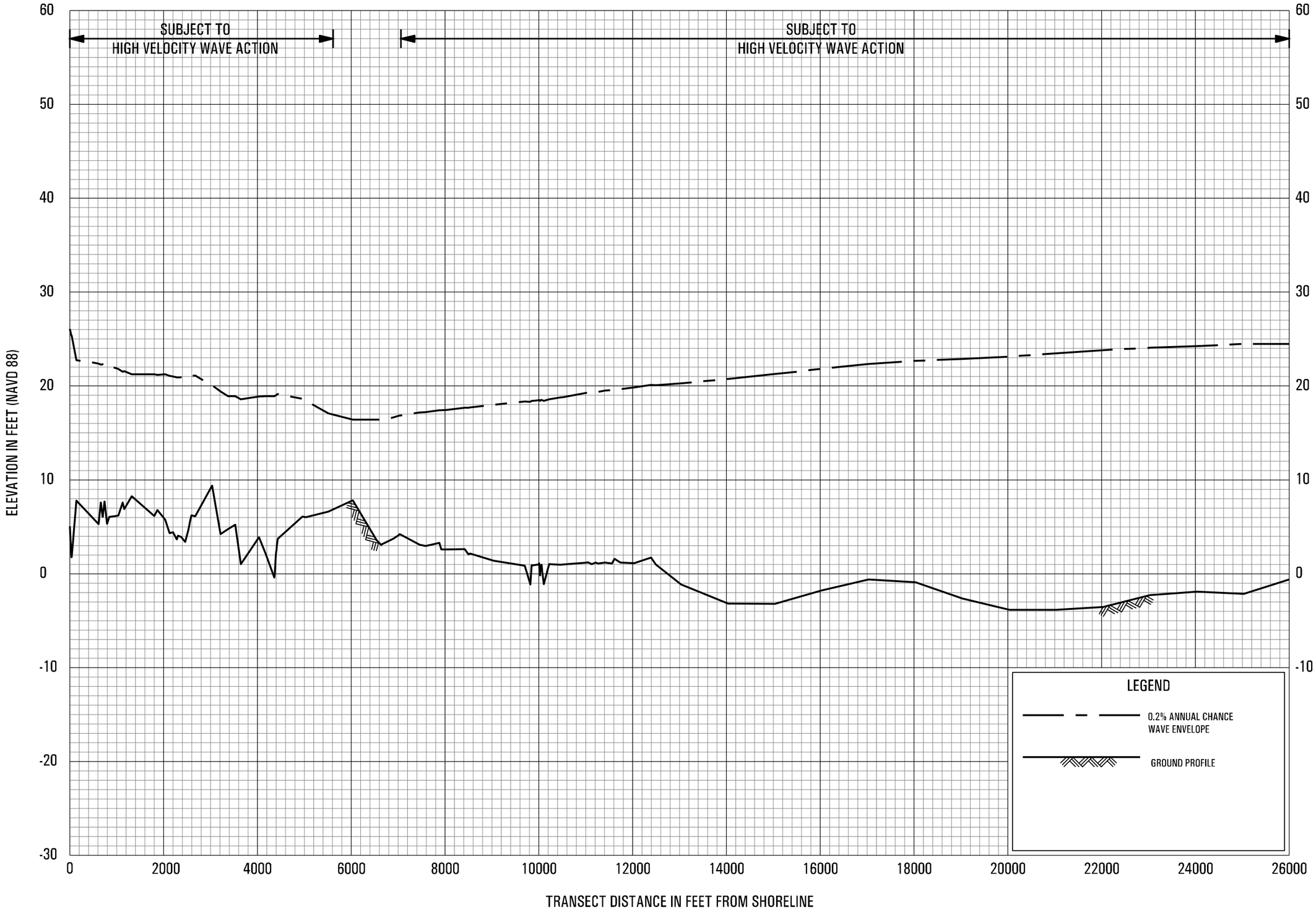
FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 25



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 26

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

64P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

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-30

26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 26

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

65P



0.2% ANNUAL CHANCE WAVE ENVELOPE

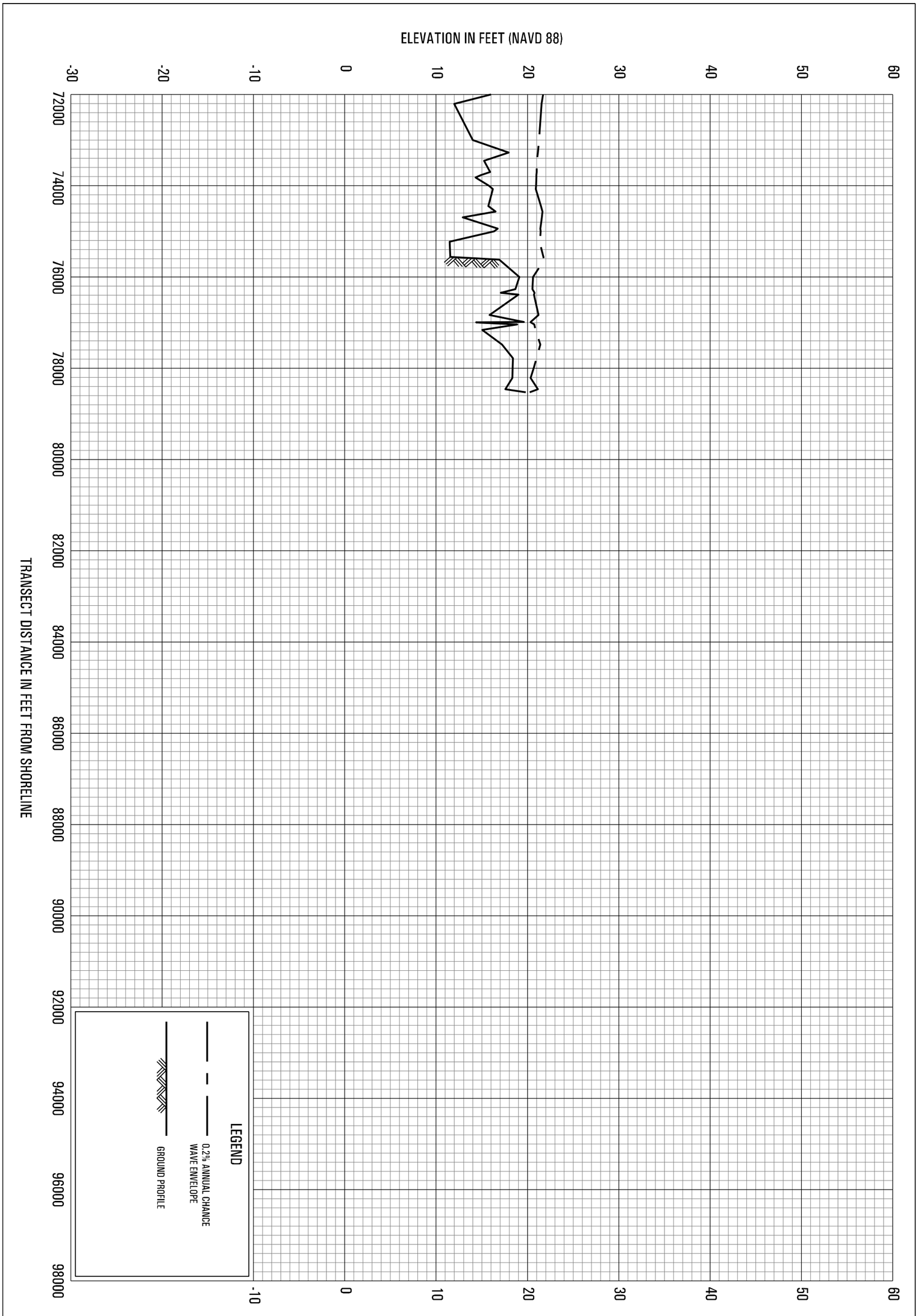
TRANSECT 26

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

66P



FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 26



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 27

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

68P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
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-10
-20
-30

26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 27

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

69P

SUBJECT TO HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

52000
54000
56000
58000
60000
62000
64000
66000
68000
70000
72000
74000
76000
78000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

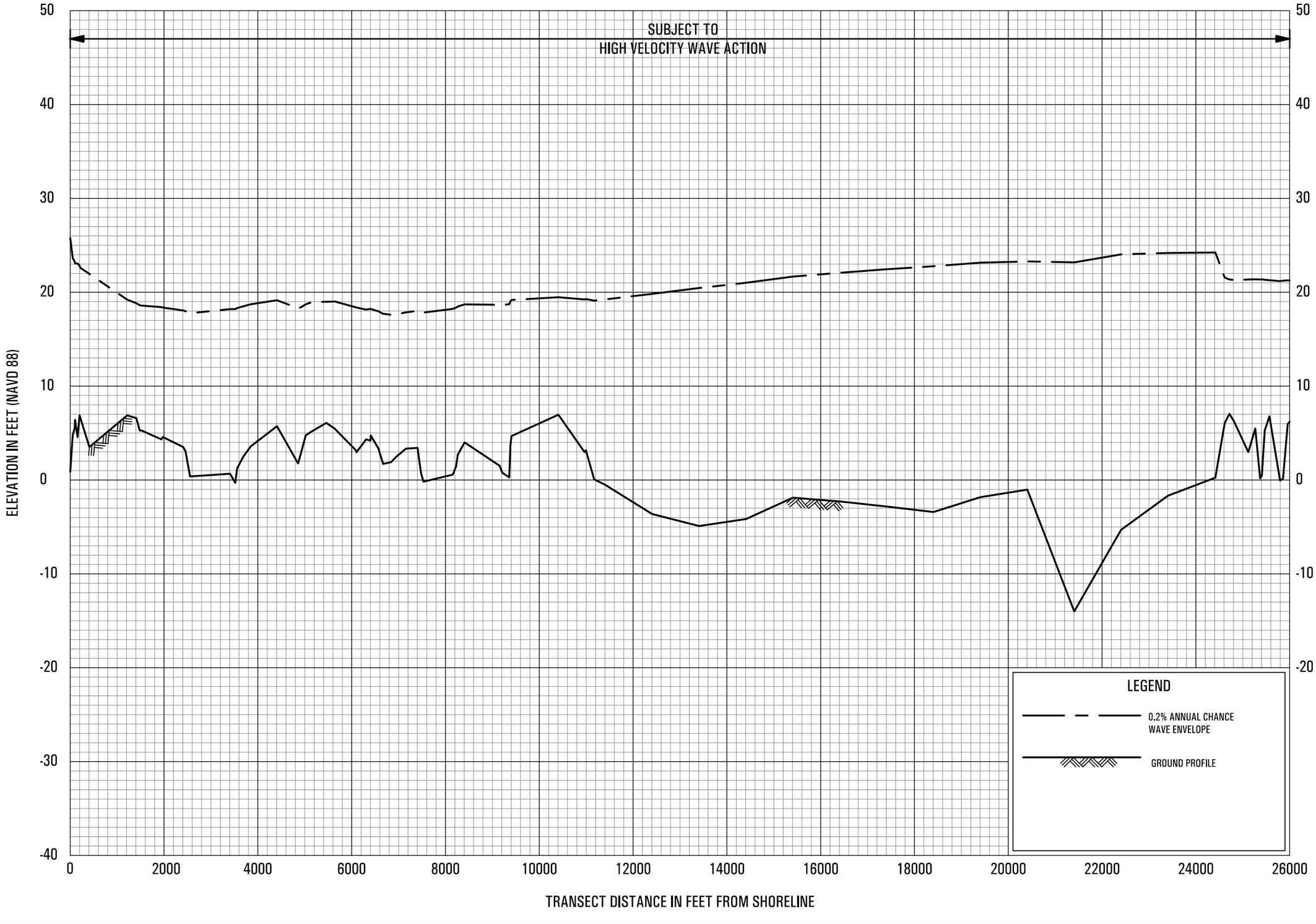
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 27

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

70P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 28

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

71P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

TEXAS CITY HURRICANE
PROTECTION LEVEE

ELEVATION IN FEET (NAVD 88)

50
40
30
20
10
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-10
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-30
-40

26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE
WAVE ENVELOPE

GROUND PROFILE

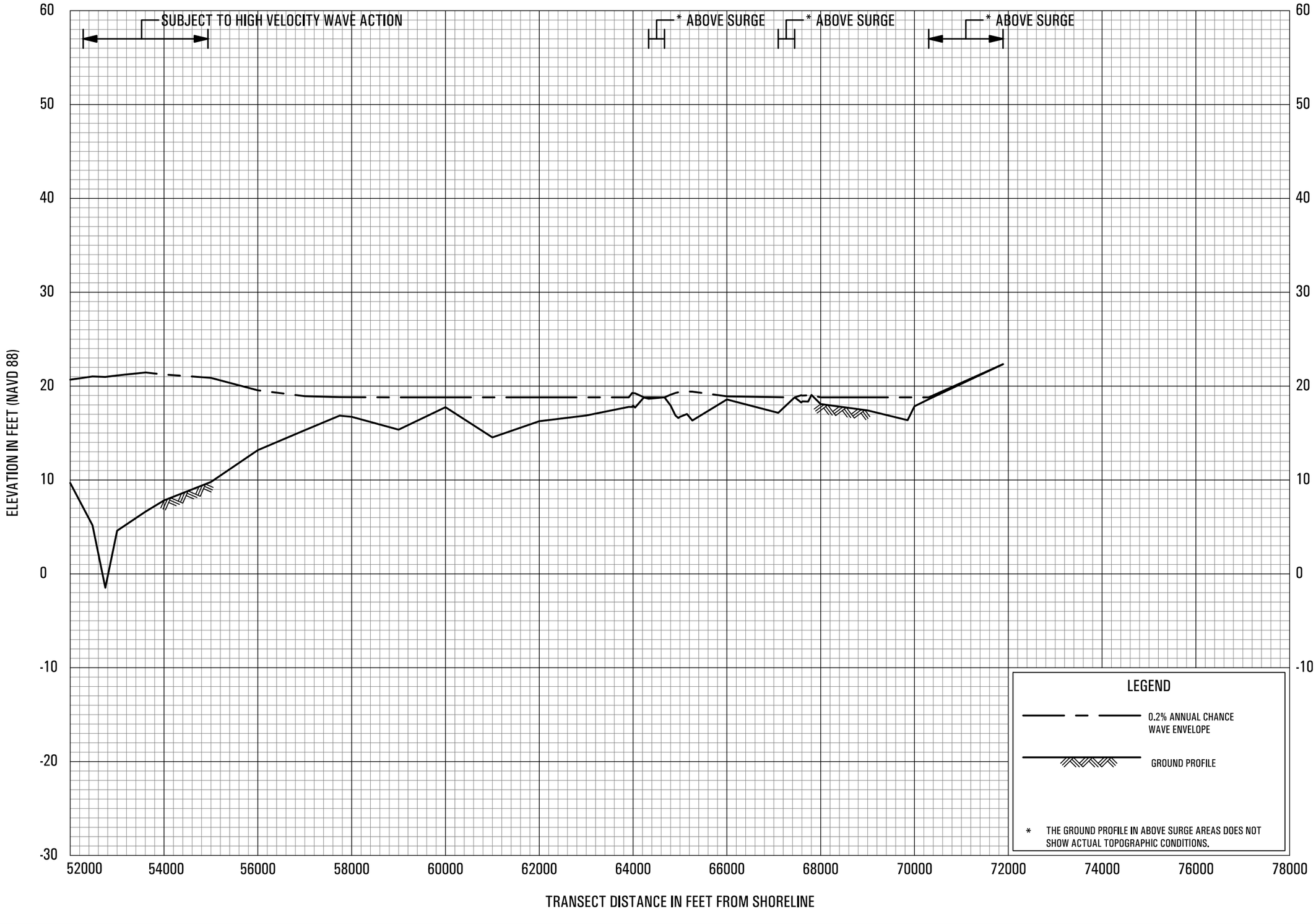
* THE GROUND PROFILE IN ABOVE SURGE AREAS DOES NOT SHOW ACTUAL TOPOGRAPHIC CONDITIONS.

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 28

FEDERAL EMERGENCY MANAGEMENT AGENCY
GALVESTON COUNTY, TX
AND INCORPORATED AREAS

72P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 28

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

73P

SUBJECT TO HIGH VELOCITY WAVE ACTION

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
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20
10
0
-10
-20
-30

0
2000
4000
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8000
10000
12000
14000
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18000
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22000
24000
26000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE
WAVE ENVELOPE

GROUND PROFILE

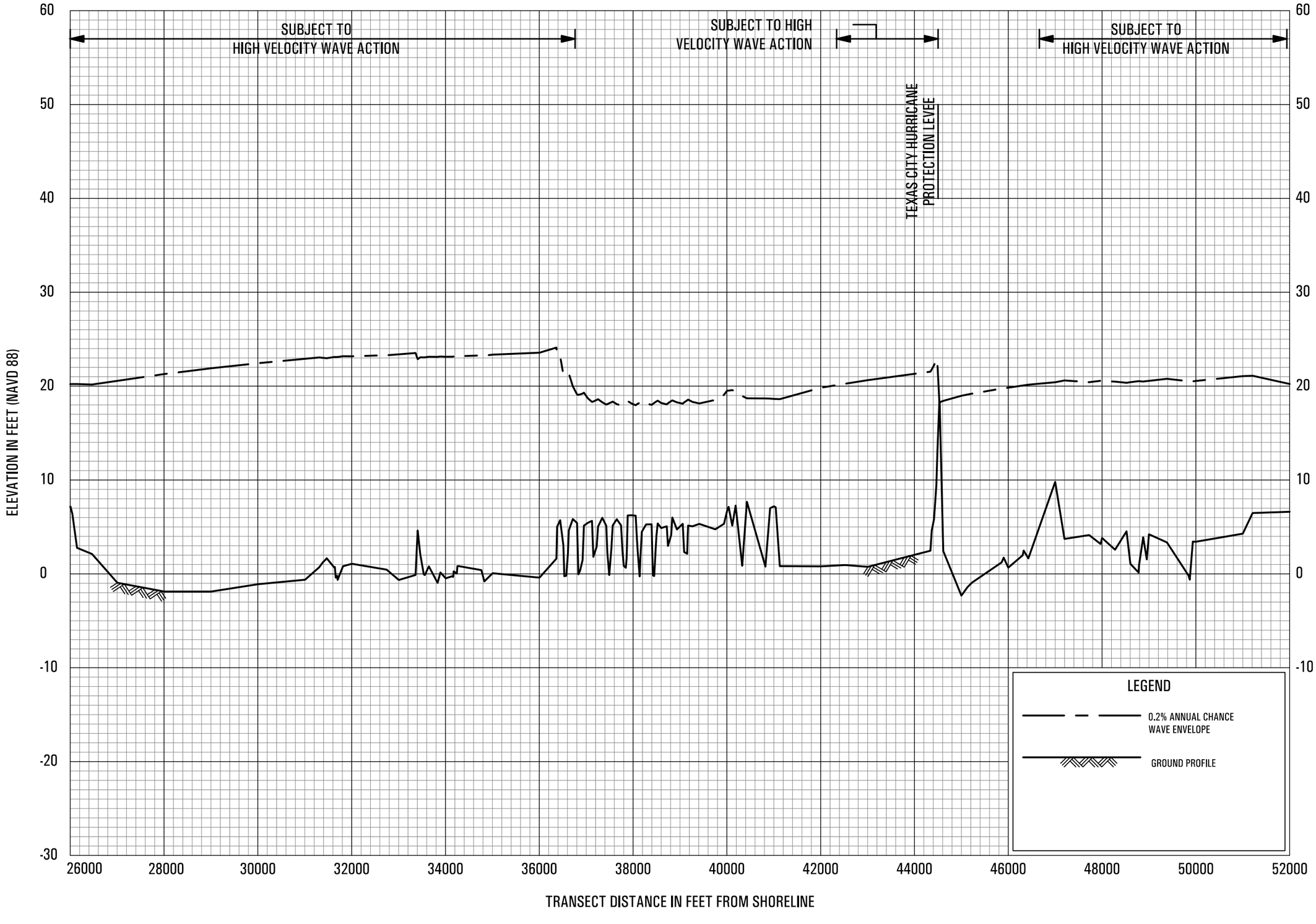
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TRANSECT 29

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

74P



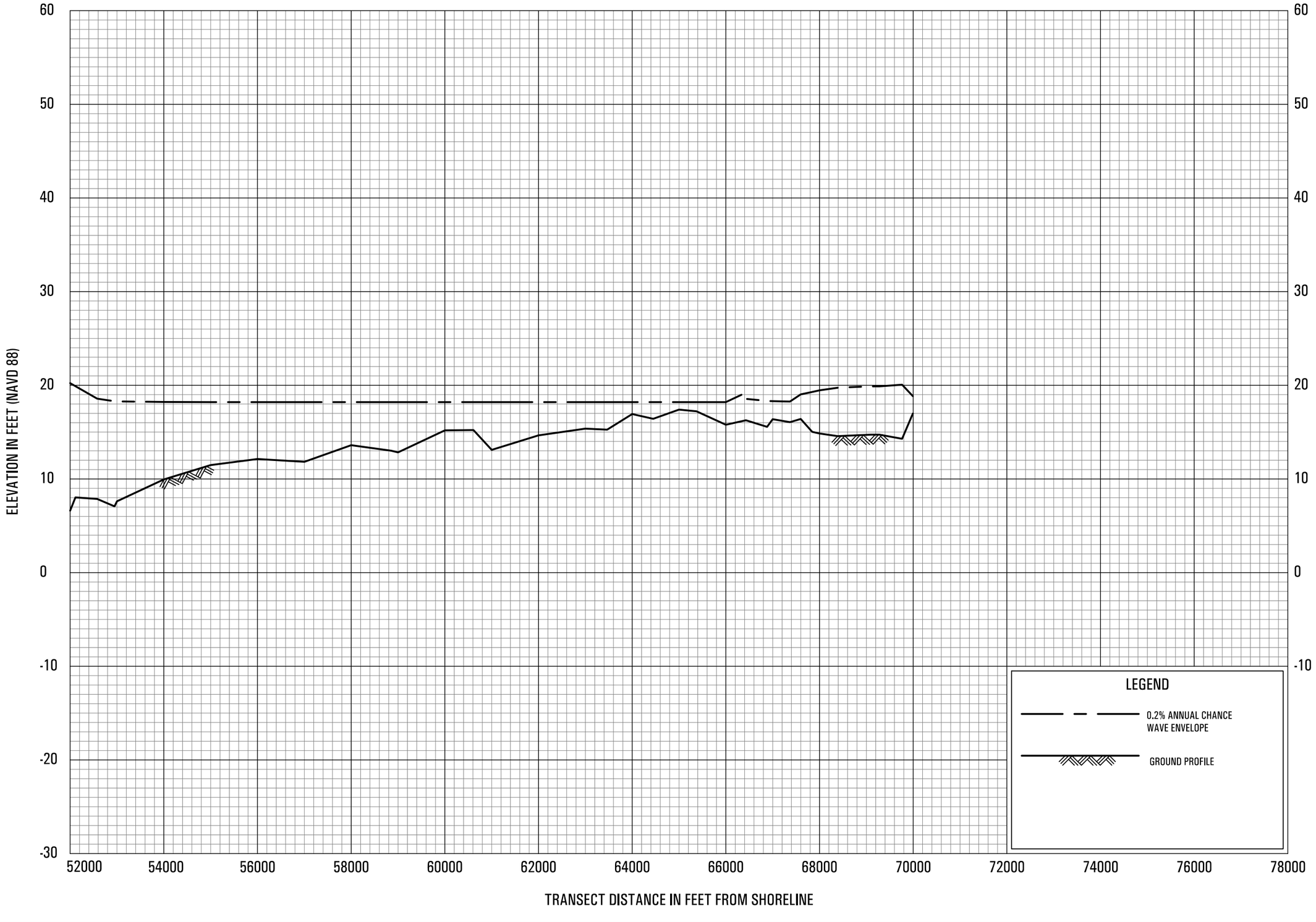
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 29

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

75P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 29

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

76P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

0
2000
4000
6000
8000
10000
12000
14000
16000
18000
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22000
24000
26000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

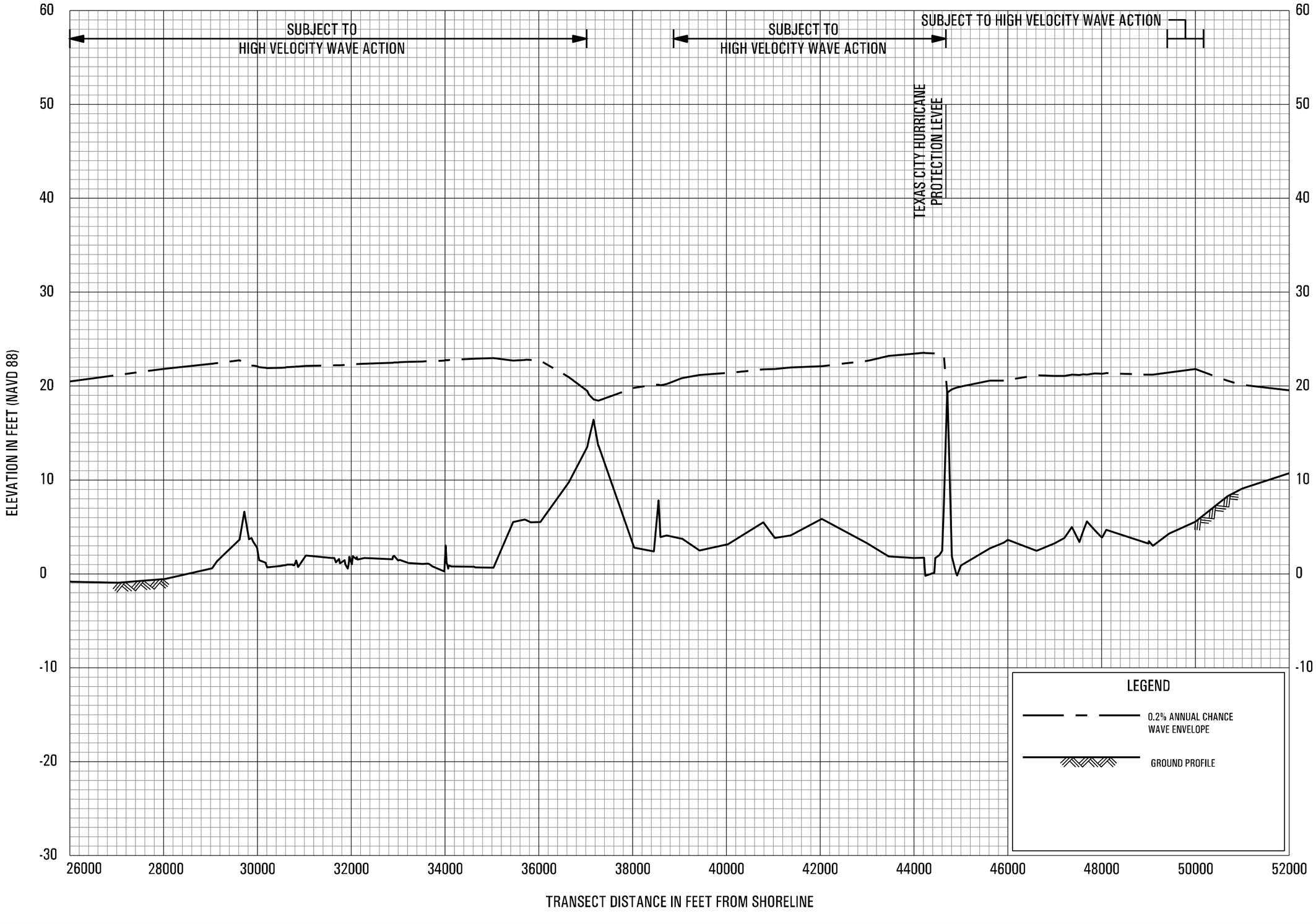
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

77P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

78P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

79P

SUBJECT TO HIGH VELOCITY WAVE ACTION

* ABOVE SURGE

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

* THE GROUND PROFILE IN ABOVE SURGE AREAS DOES NOT SHOW ACTUAL TOPOGRAPHIC CONDITIONS.

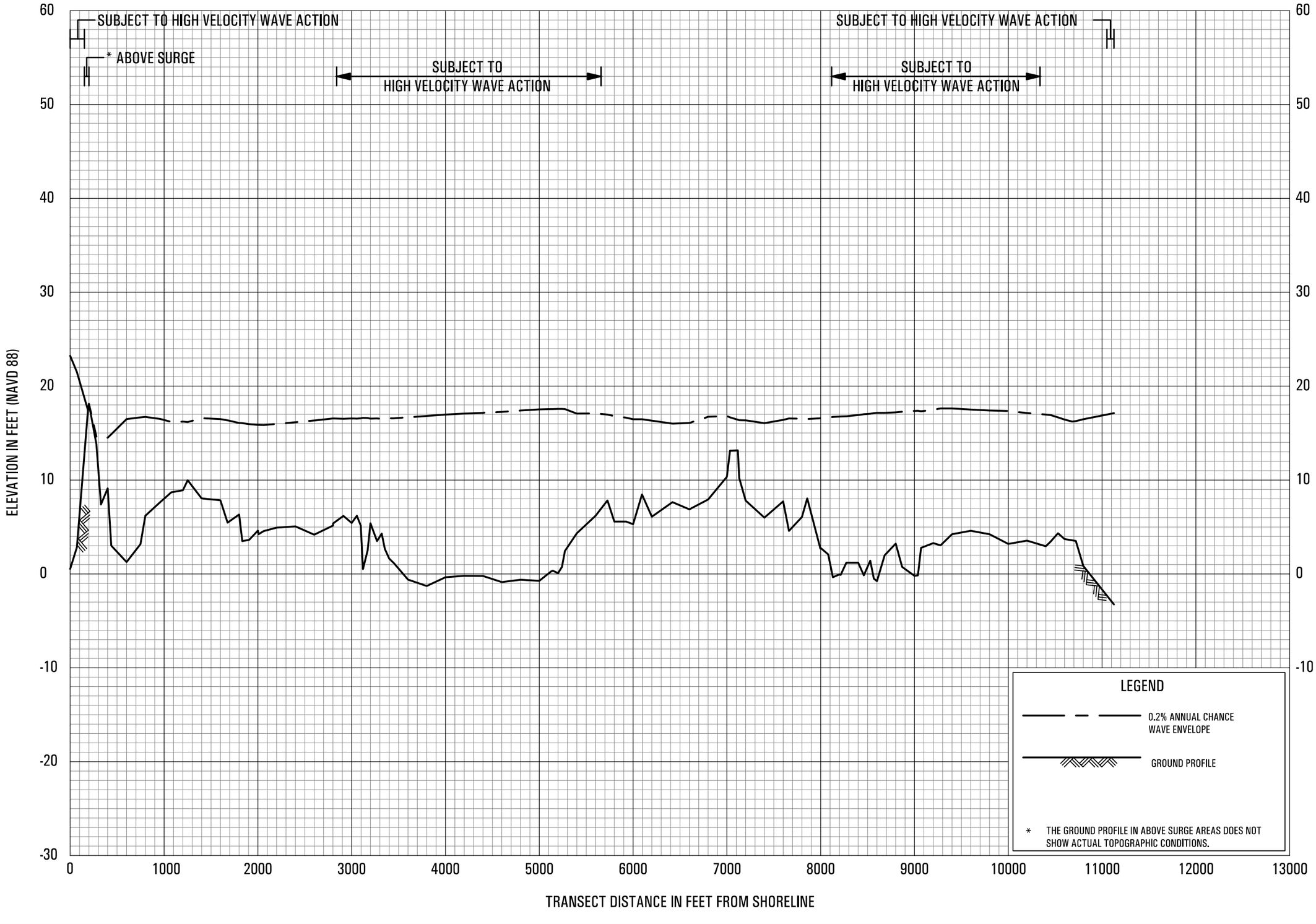
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30A

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

79P-1



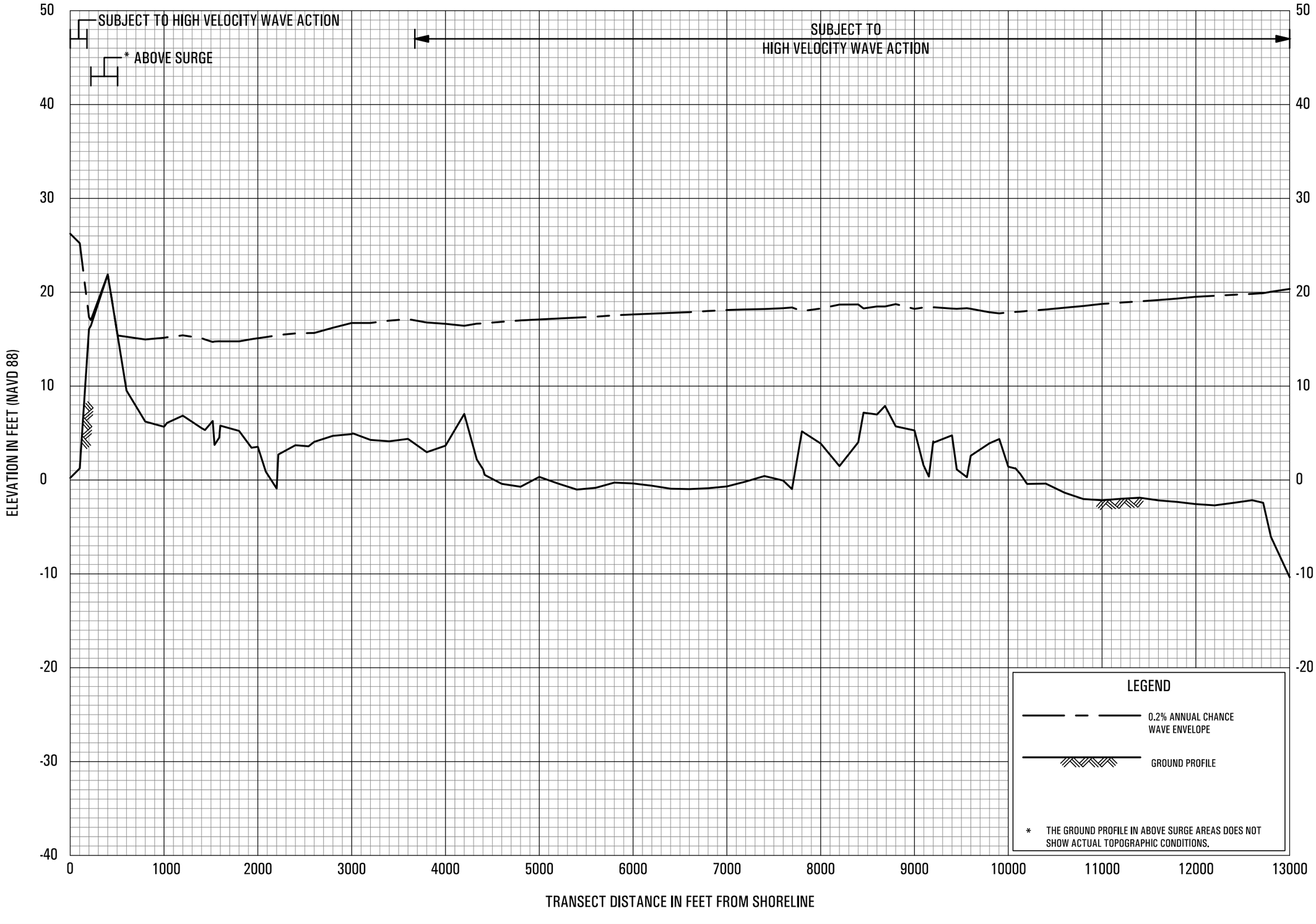
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30B

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

79P-2



0.2% ANNUAL CHANCE WAVE ENVELOPE

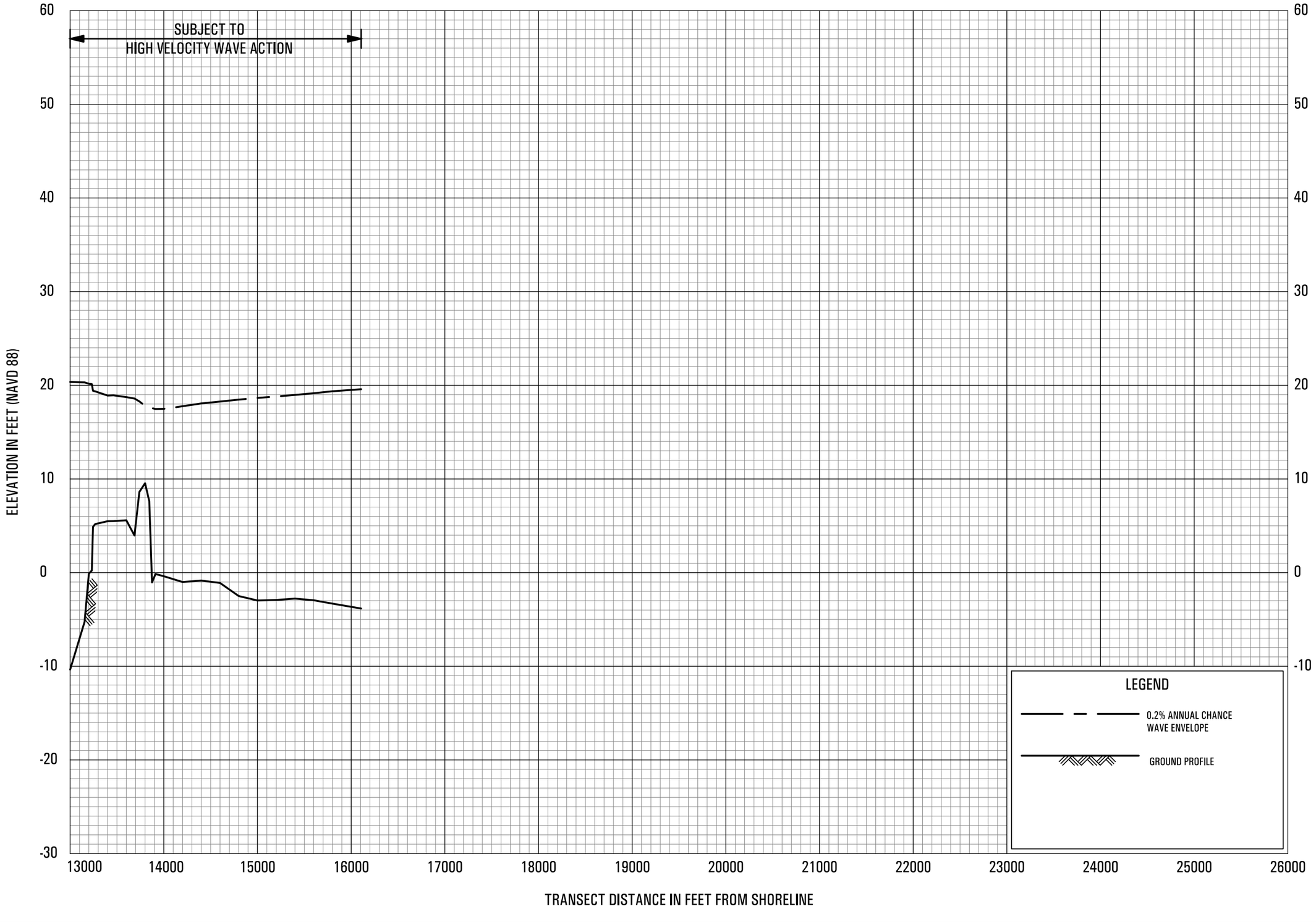
TRANSECT 30C

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

79P-3



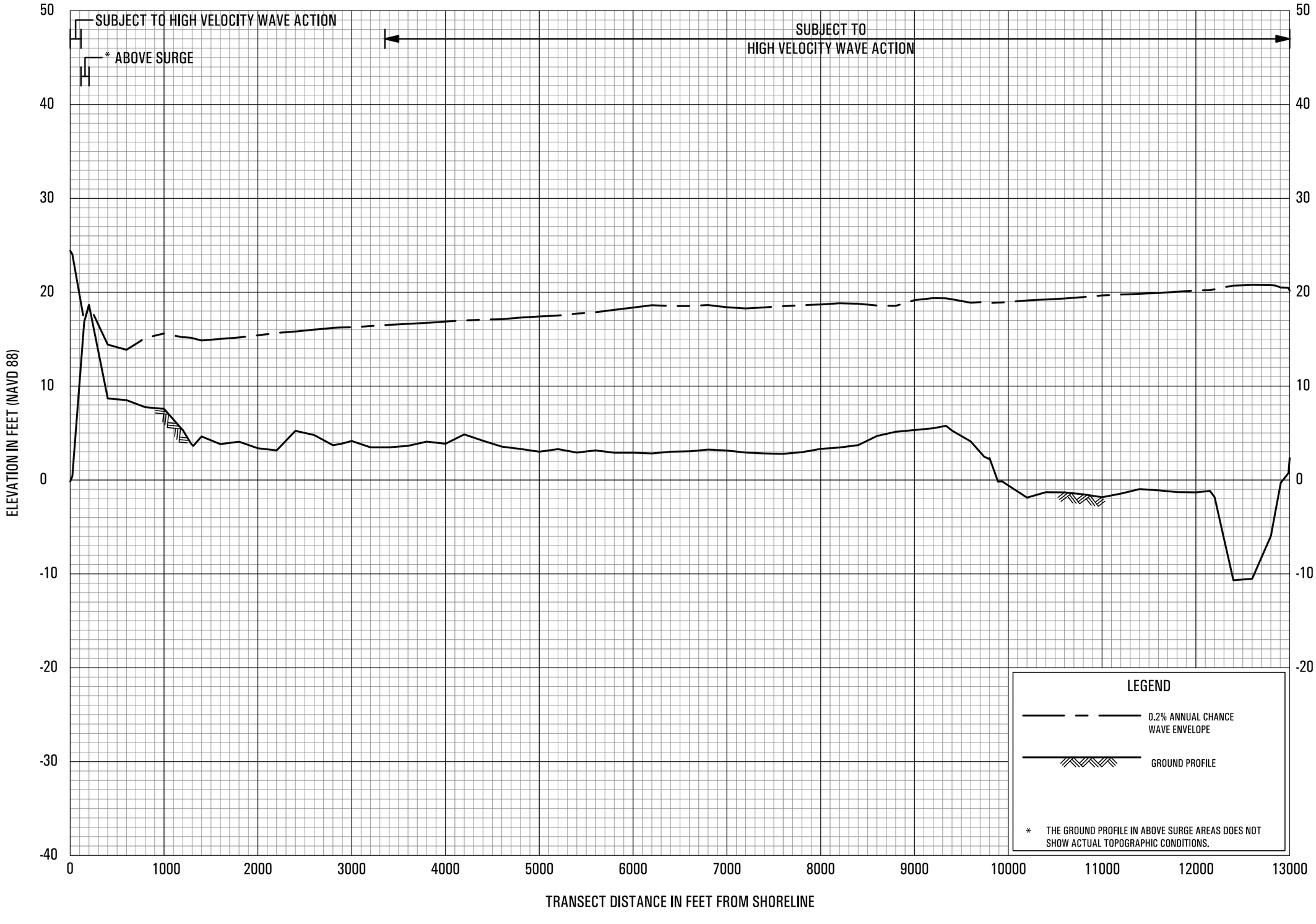
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30C

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

79P-4



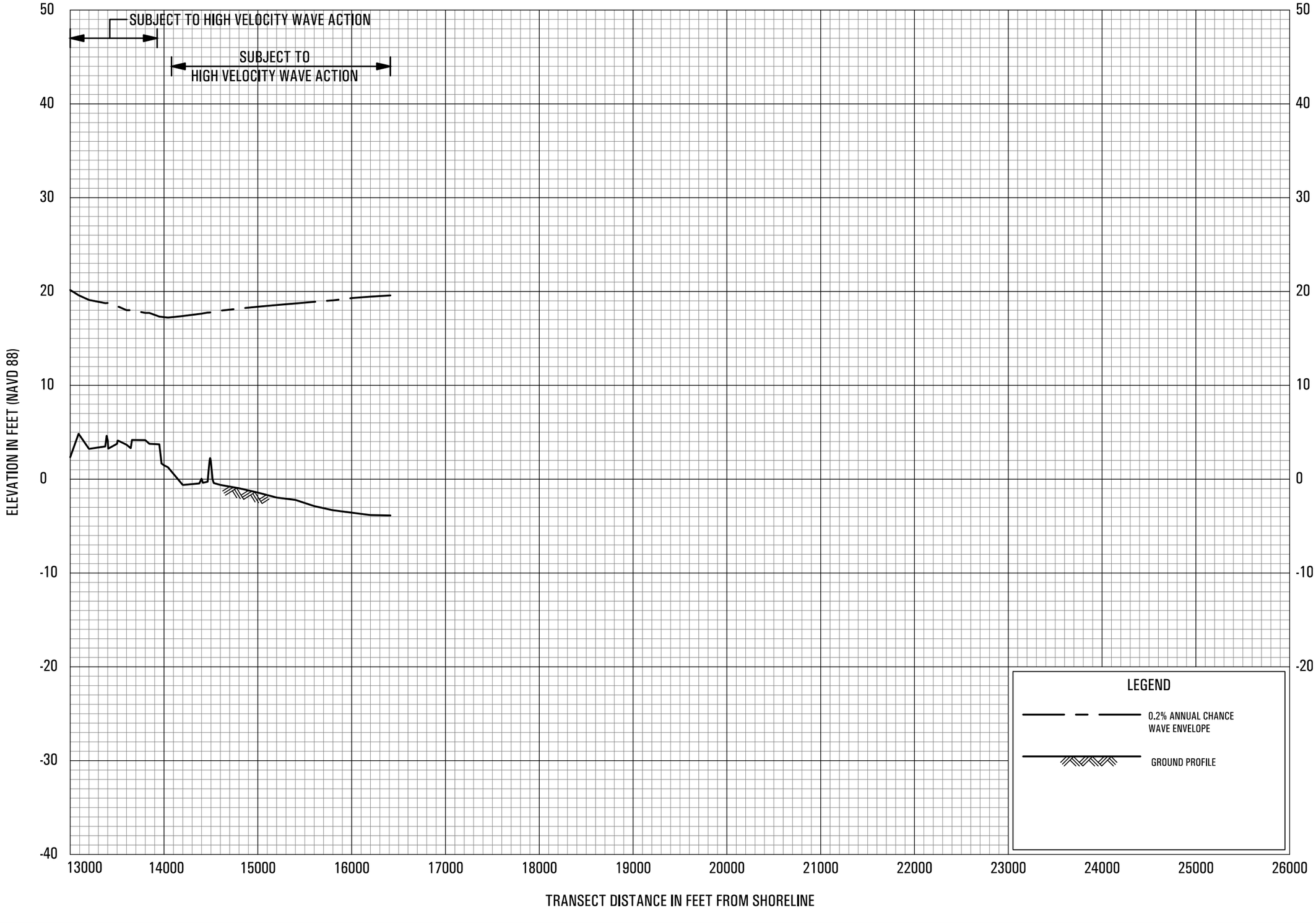
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 30D

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

79P-5



0.2% ANNUAL CHANCE WAVE ENVELOPE

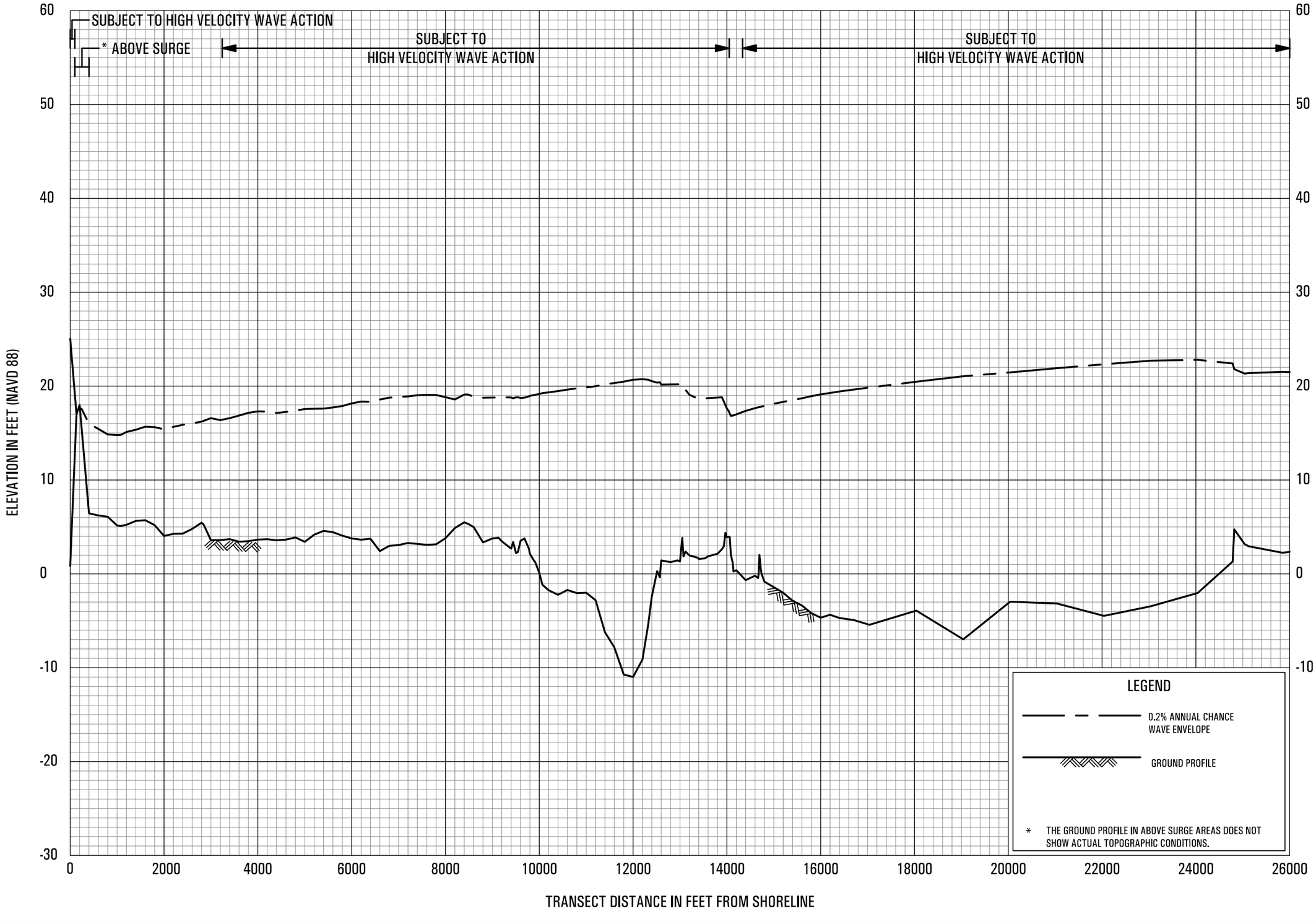
TRANSECT 30D

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

79P-6



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

80P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

81P



0.2% ANNUAL CHANCE WAVE ENVELOPE

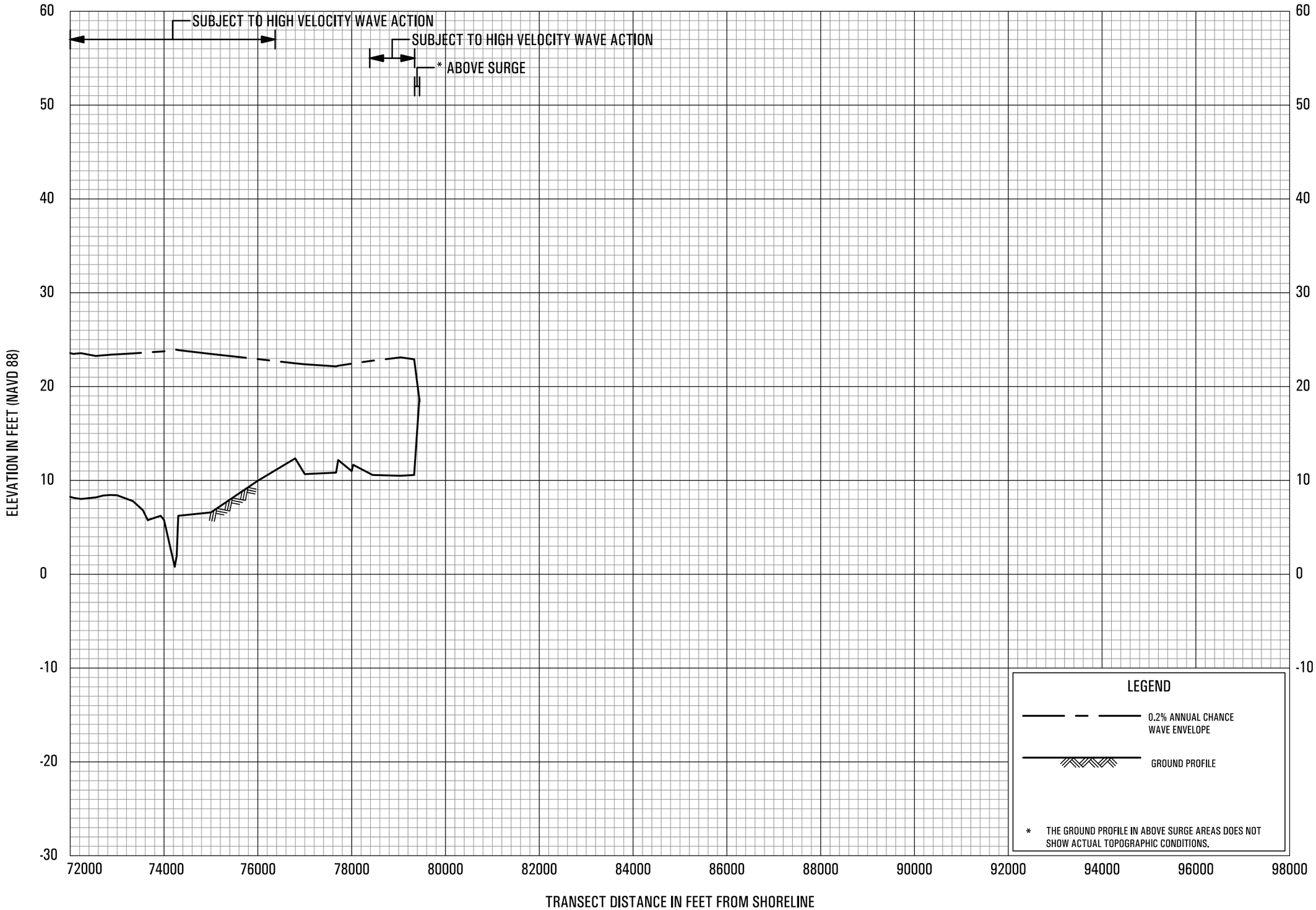
TRANSECT 31

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

82P



0.2% ANNUAL CHANCE WAVE ENVELOPE

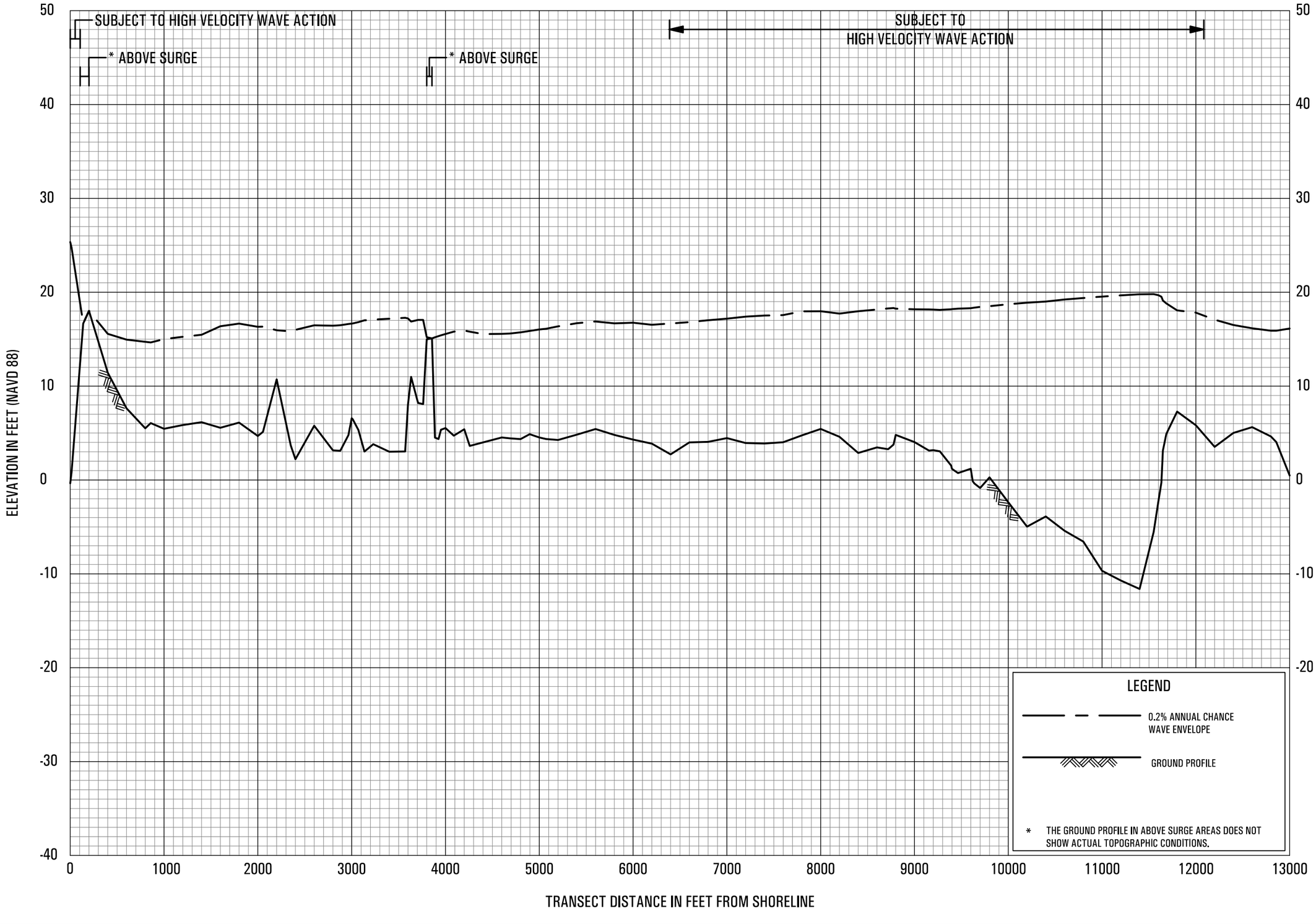
TRANSECT 31

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

83P



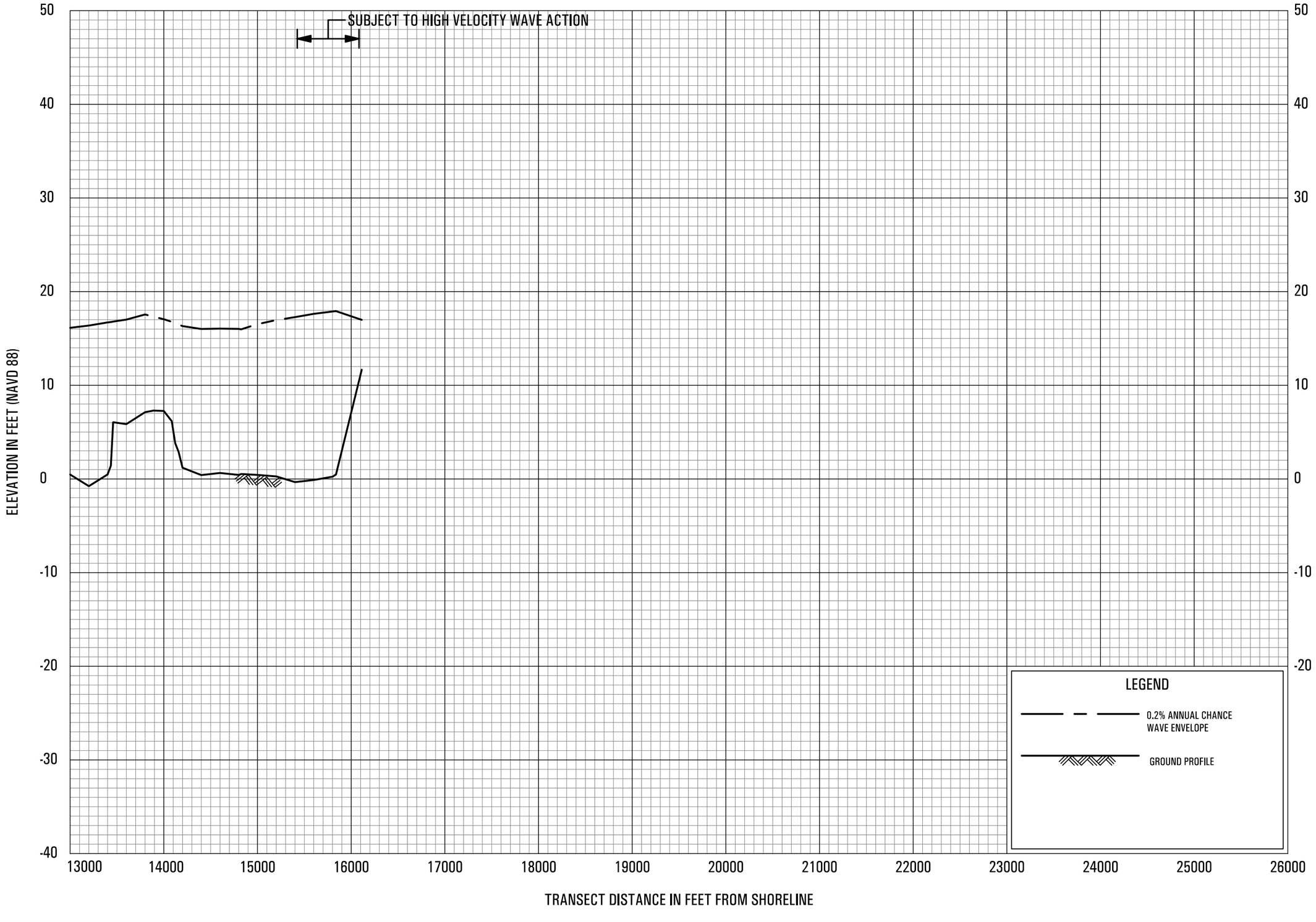
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31A

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

83P-1



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31A

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

83P-2

SUBJECT TO HIGH VELOCITY WAVE ACTION

* ABOVE SURGE

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

50
40
30
20
10
0
-10
-20
-30
-40

0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

* THE GROUND PROFILE IN ABOVE SURGE AREAS DOES NOT SHOW ACTUAL TOPOGRAPHIC CONDITIONS.

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31B

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

83P-3

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

50
40
30
20
10
0
-10
-20
-30
-40

11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

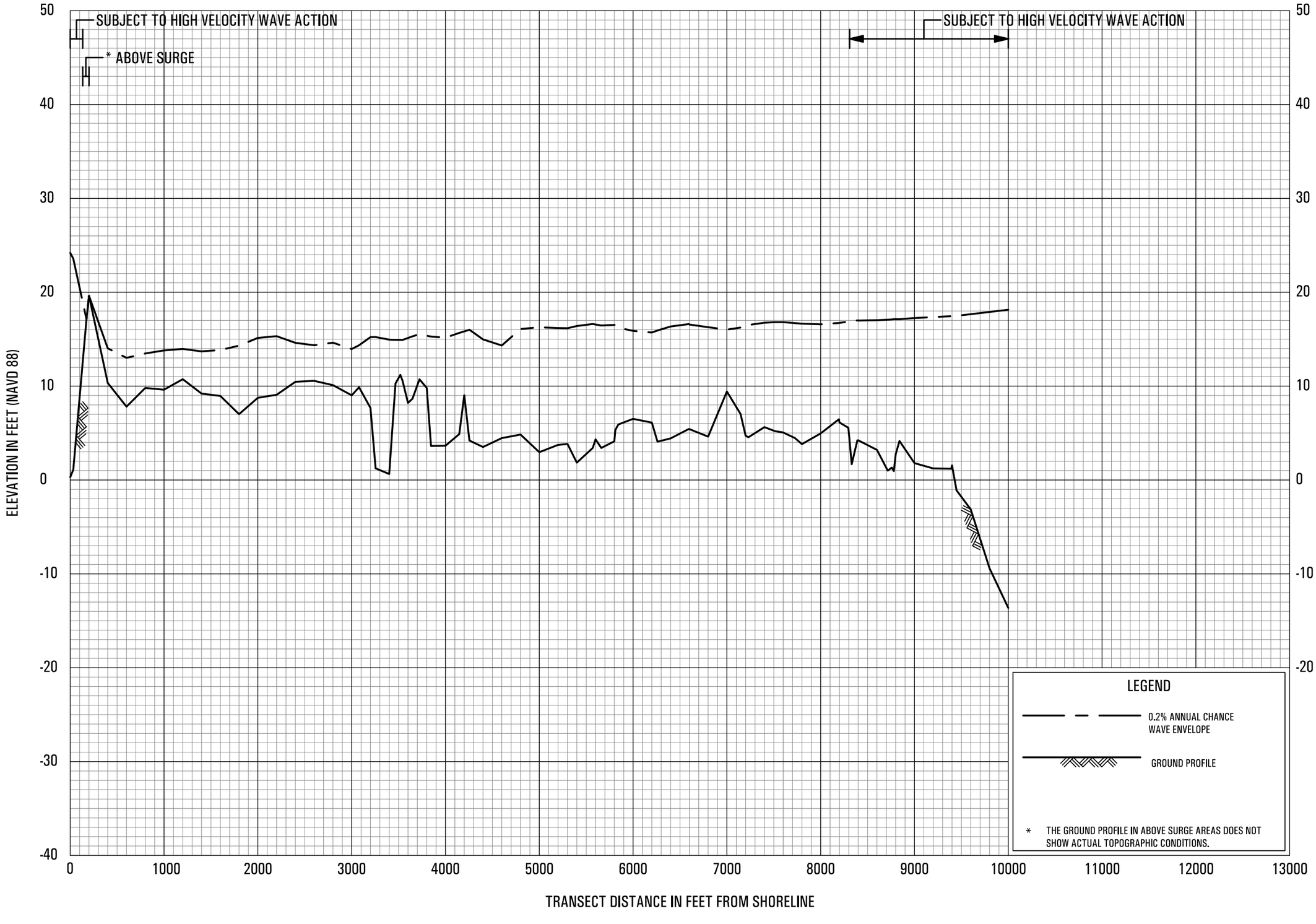
GROUND PROFILE

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31B

FEDERAL EMERGENCY MANAGEMENT AGENCY
GALVESTON COUNTY, TX
AND INCORPORATED AREAS

83P-4



0.2% ANNUAL CHANCE WAVE ENVELOPE

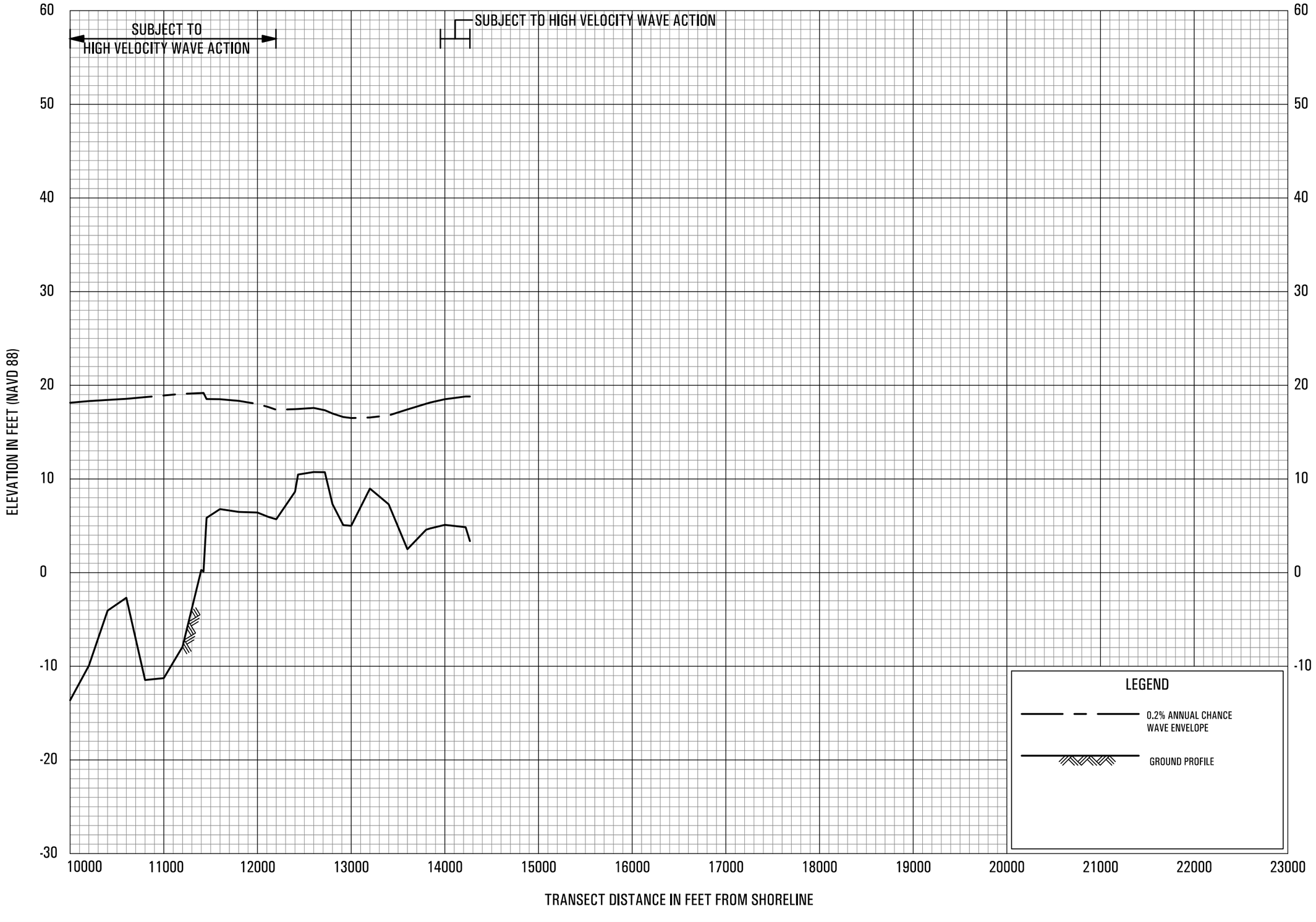
TRANSECT 31C

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

83P-5



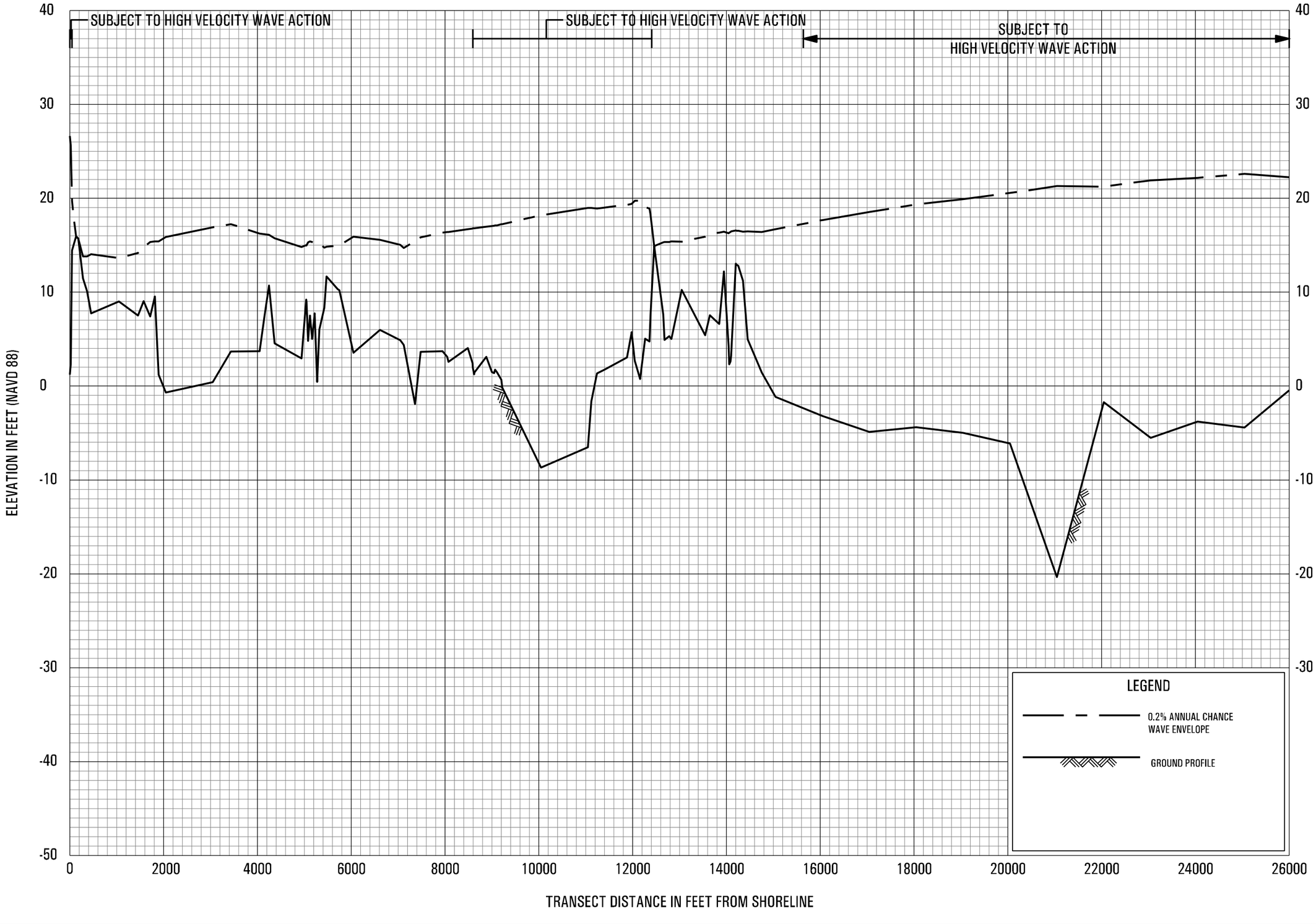
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 31C

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

83P-6



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 32

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

84P



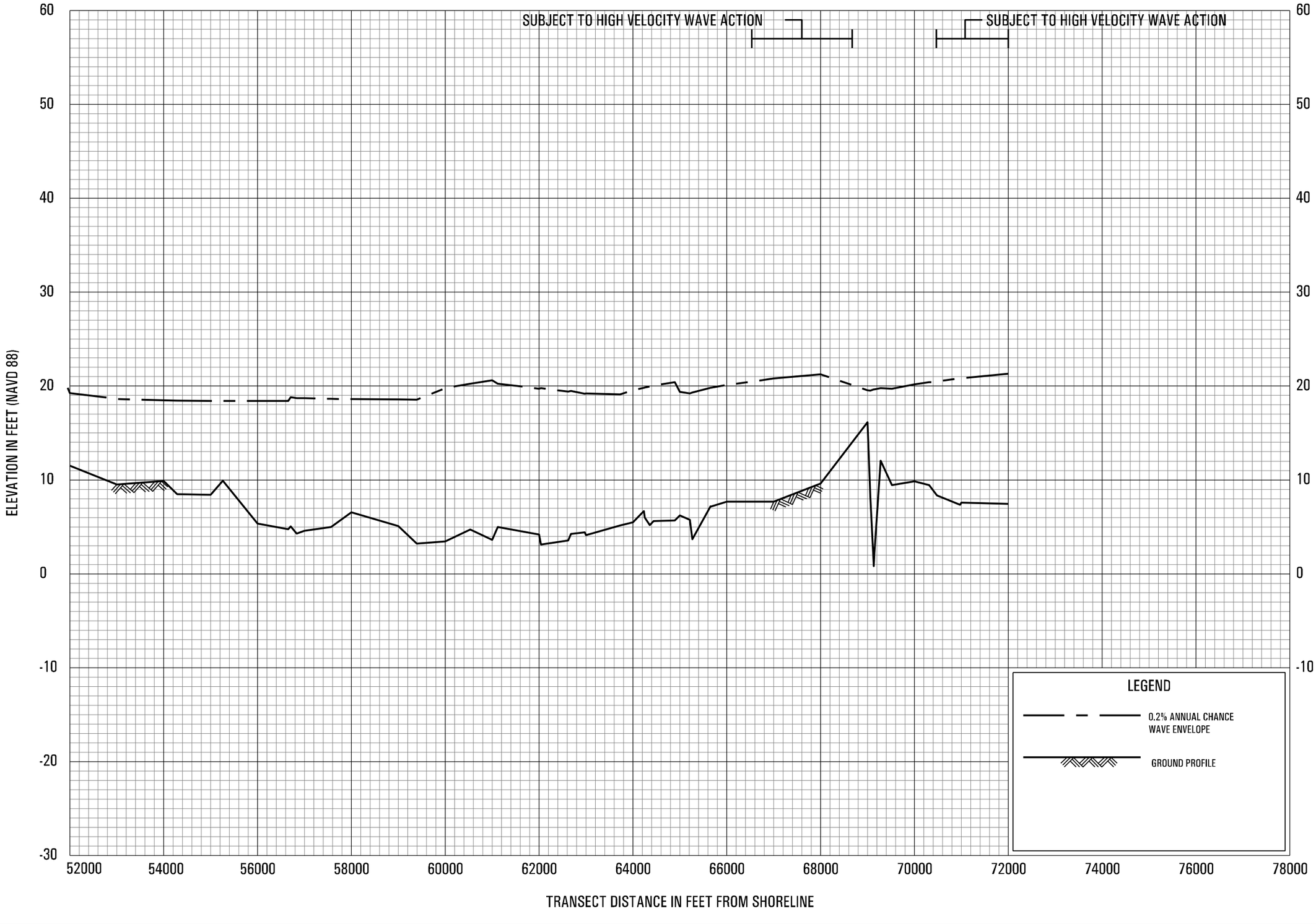
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 32

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

85P



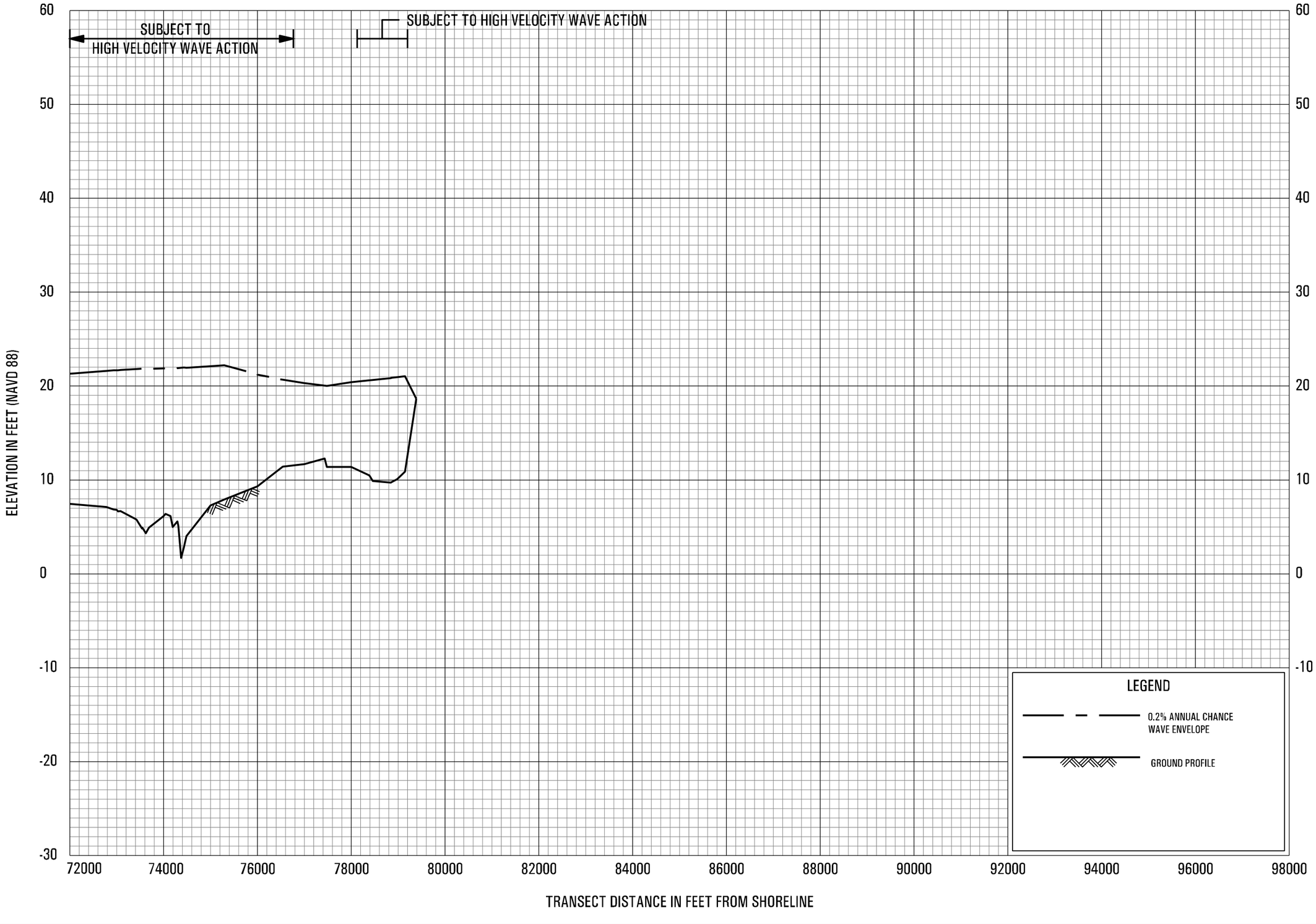
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 32

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

86P



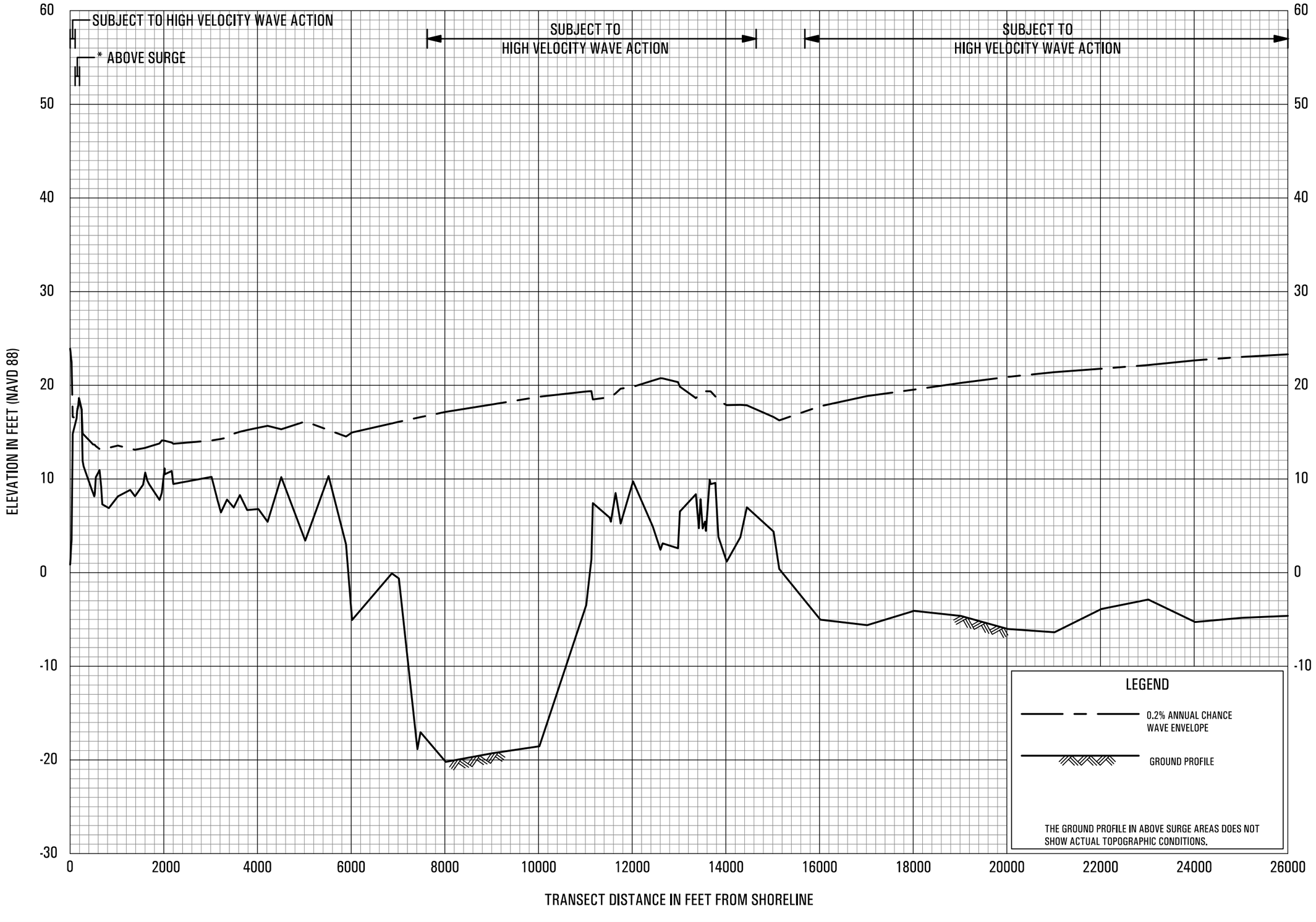
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 32

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

87P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 33

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

88P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

* ABOVE SURGE

SUBJECT TO
HIGH VELOCITY WAVE ACTION

TEXAS CITY HURRICANE
PROTECTION LEVEE

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE
WAVE ENVELOPE

GROUND PROFILE

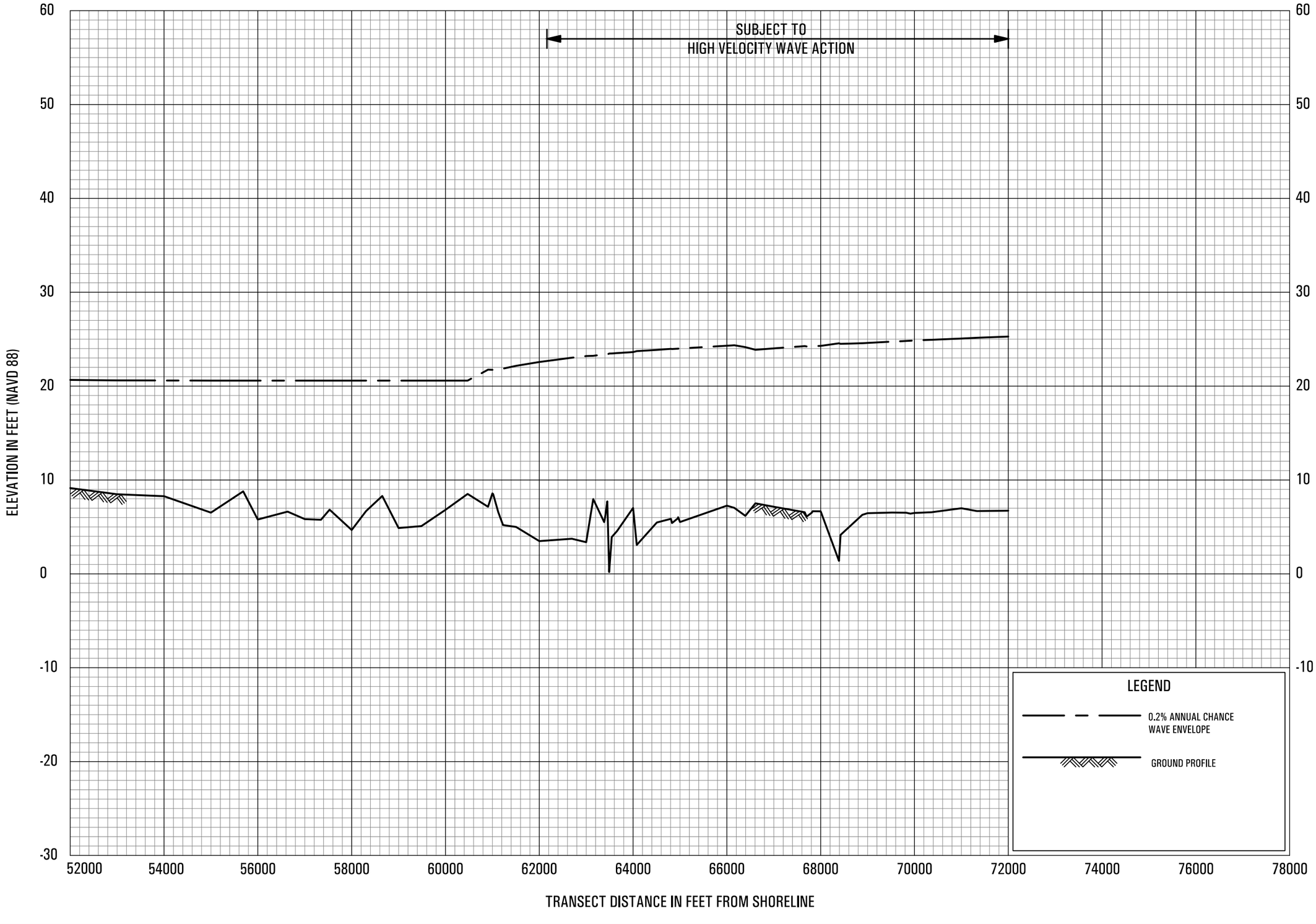
* THE GROUND PROFILE IN ABOVE SURGE AREAS DOES NOT SHOW ACTUAL TOPOGRAPHIC CONDITIONS.

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 33

FEDERAL EMERGENCY MANAGEMENT AGENCY
GALVESTON COUNTY, TX
AND INCORPORATED AREAS

89P



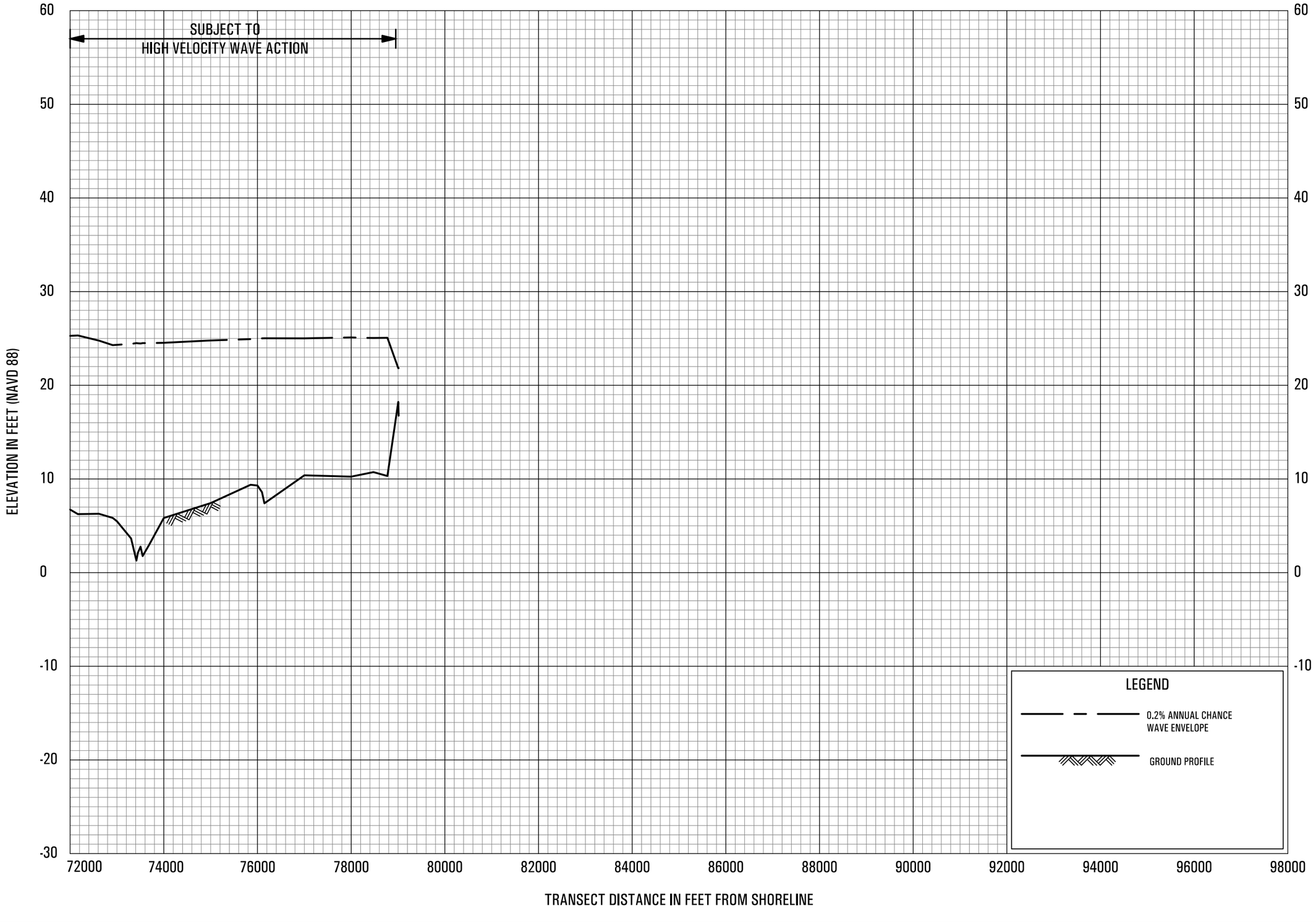
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 33

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

90P



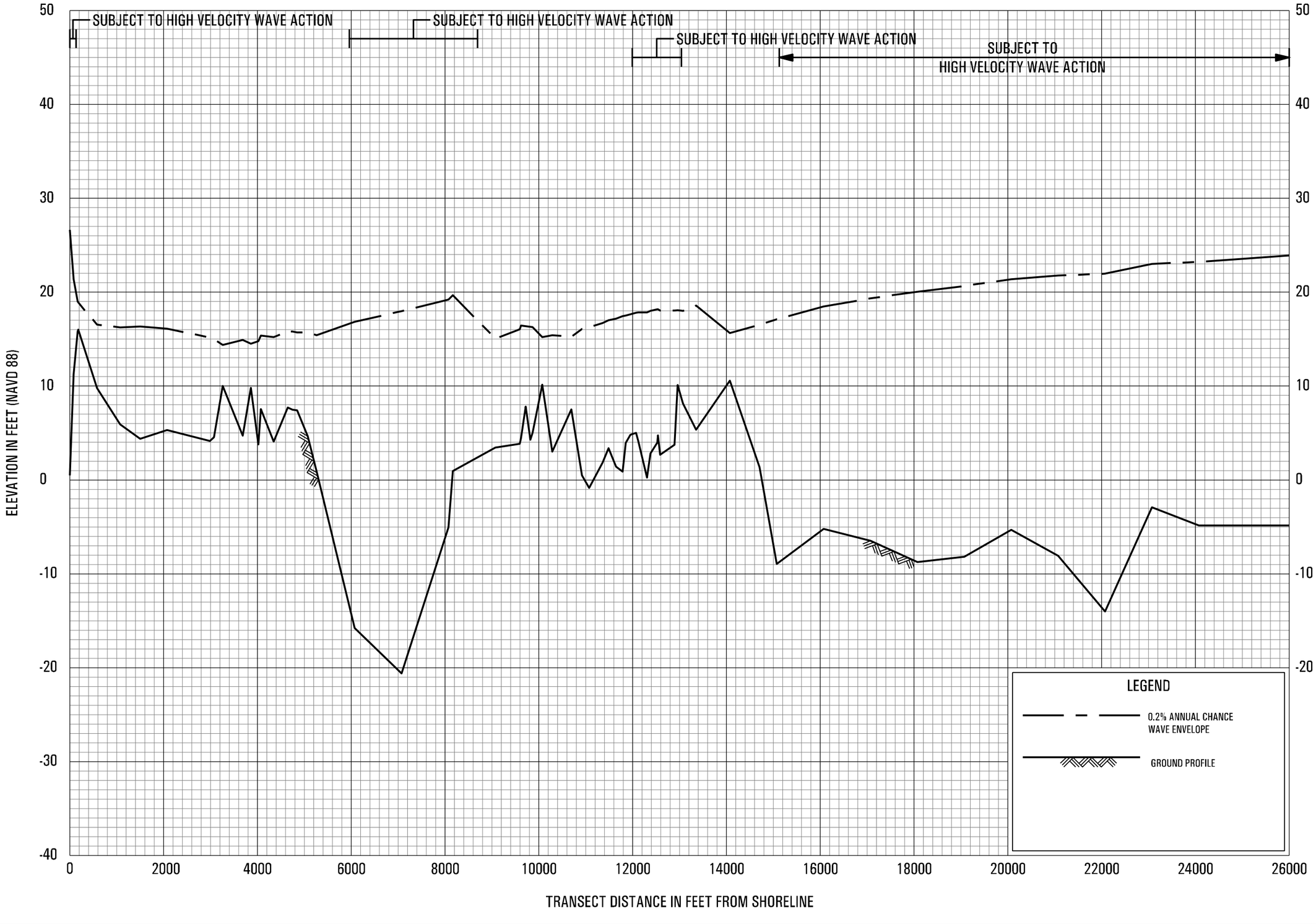
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 33

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

91P



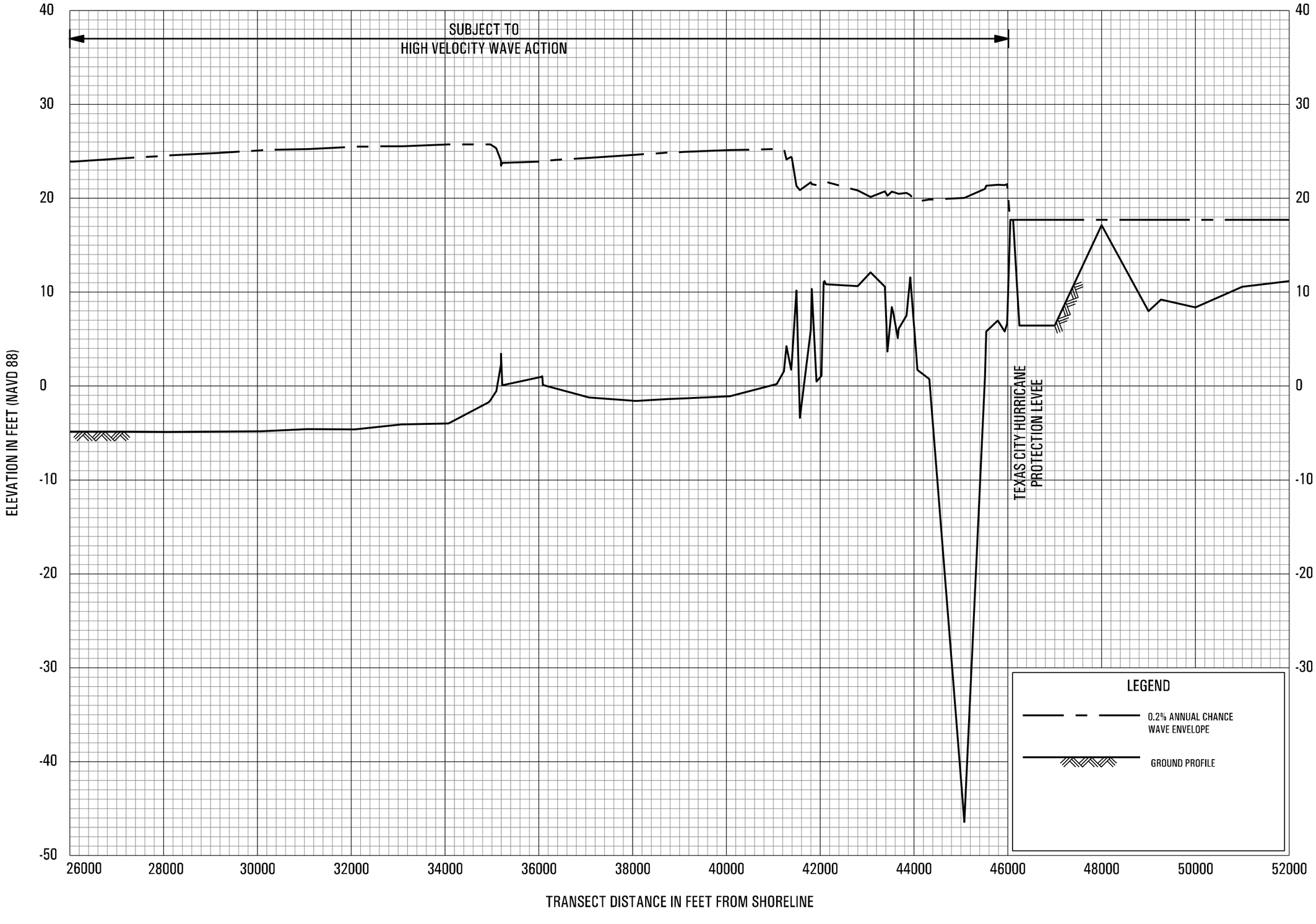
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 34

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

92P



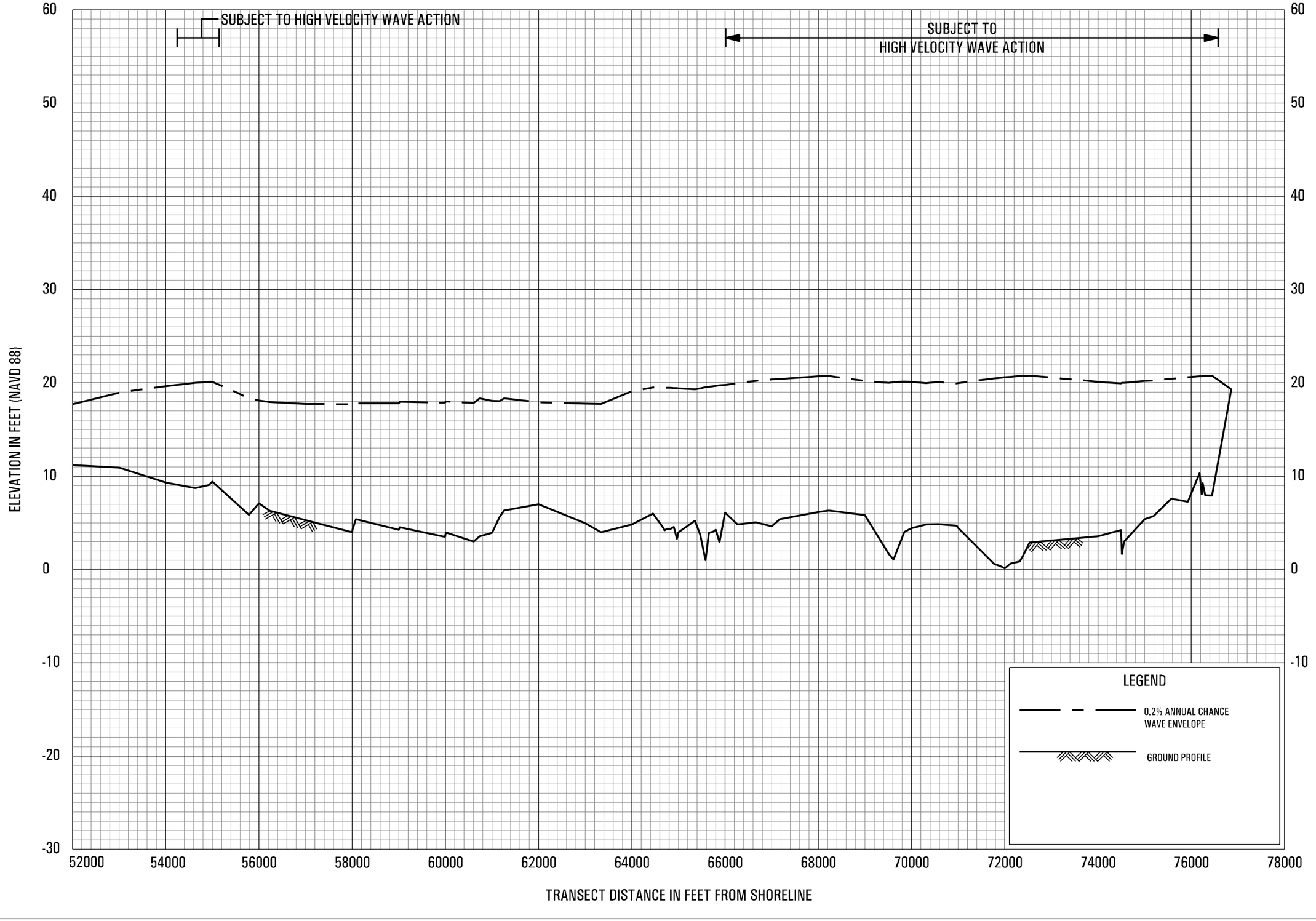
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 34

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

93P



0.2% ANNUAL CHANCE WAVE ENVELOPE

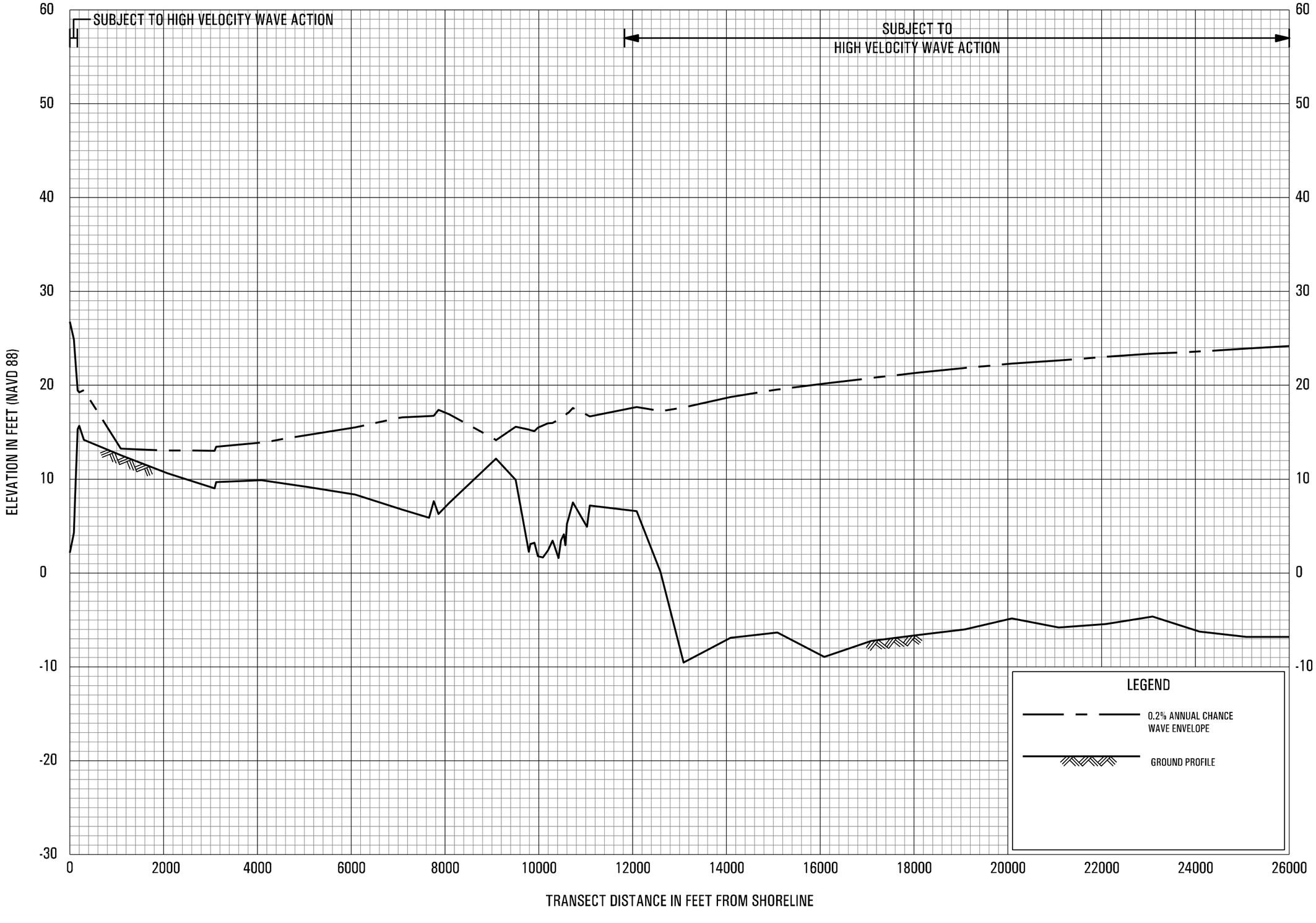
TRANSECT 34

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

94P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 35

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

95P



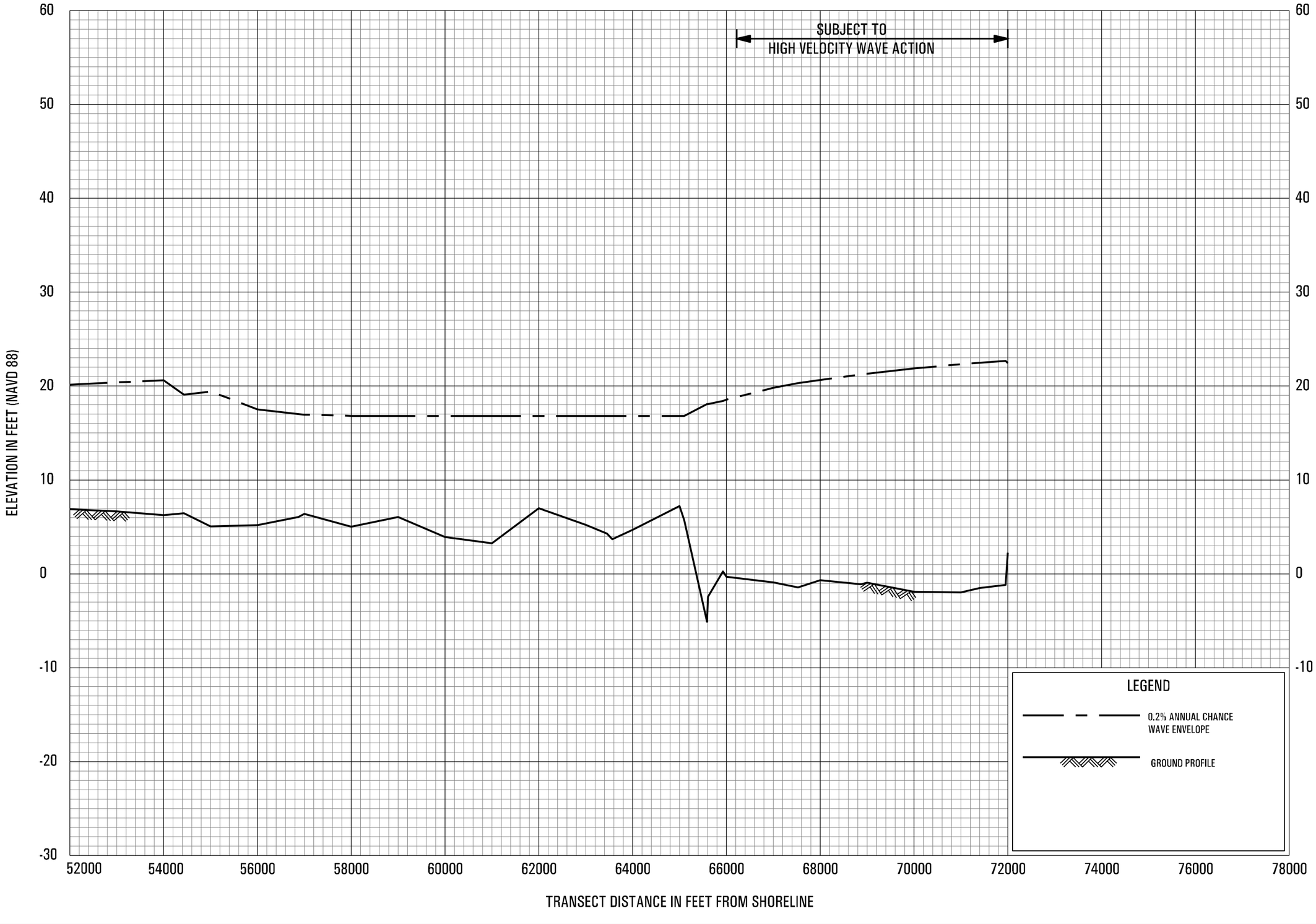
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 35

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

96P



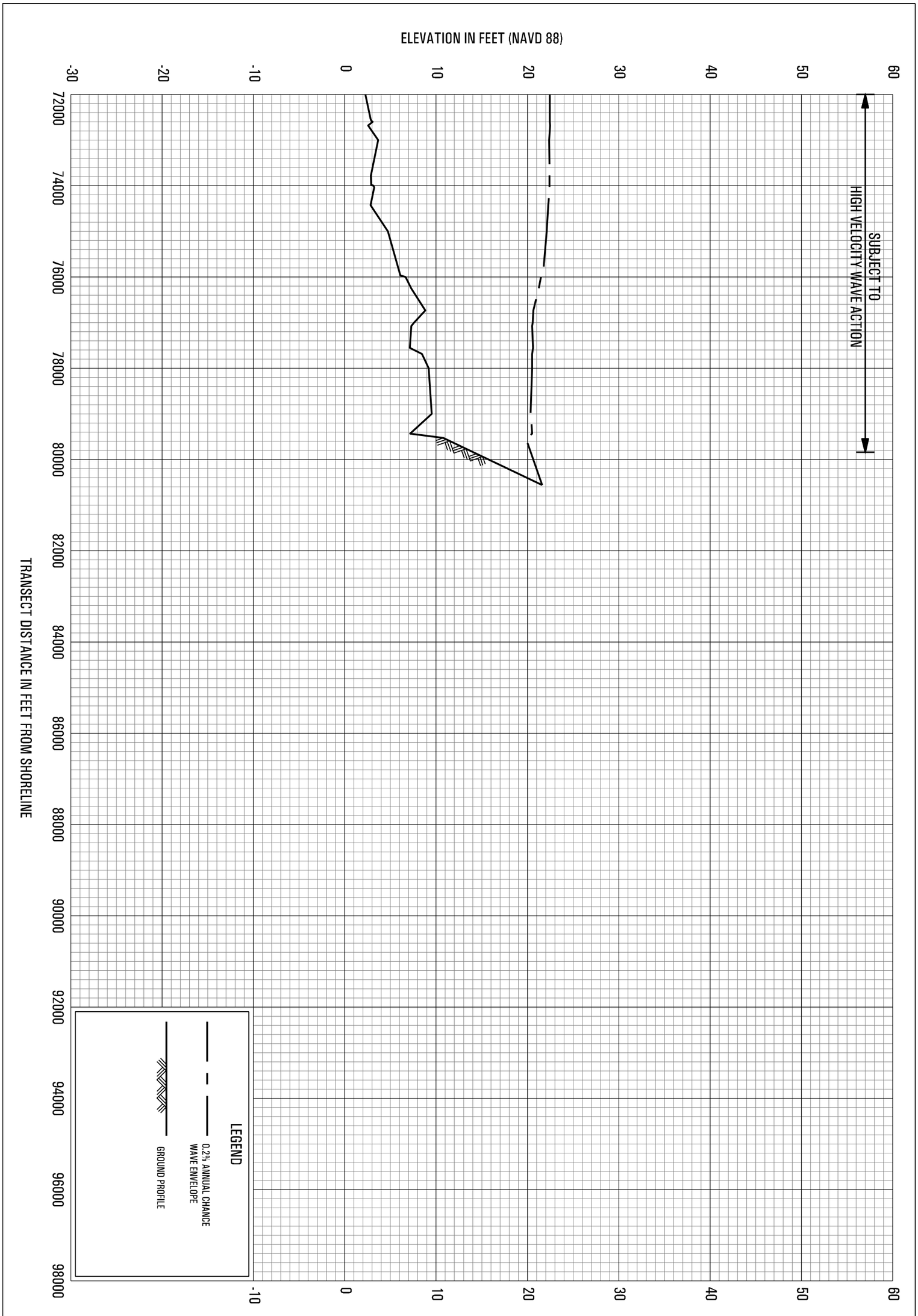
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 35

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

97P



98P

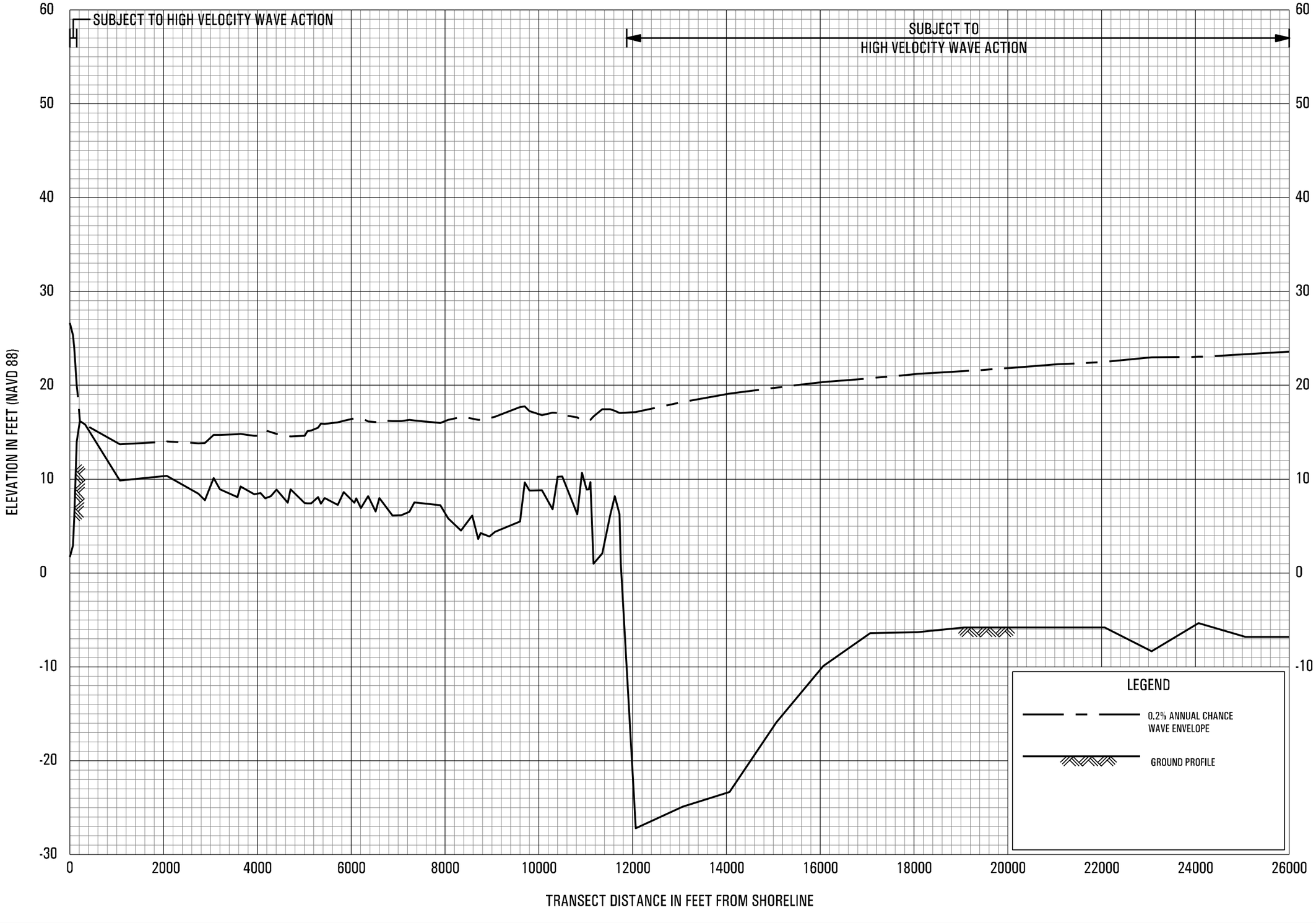
FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 35



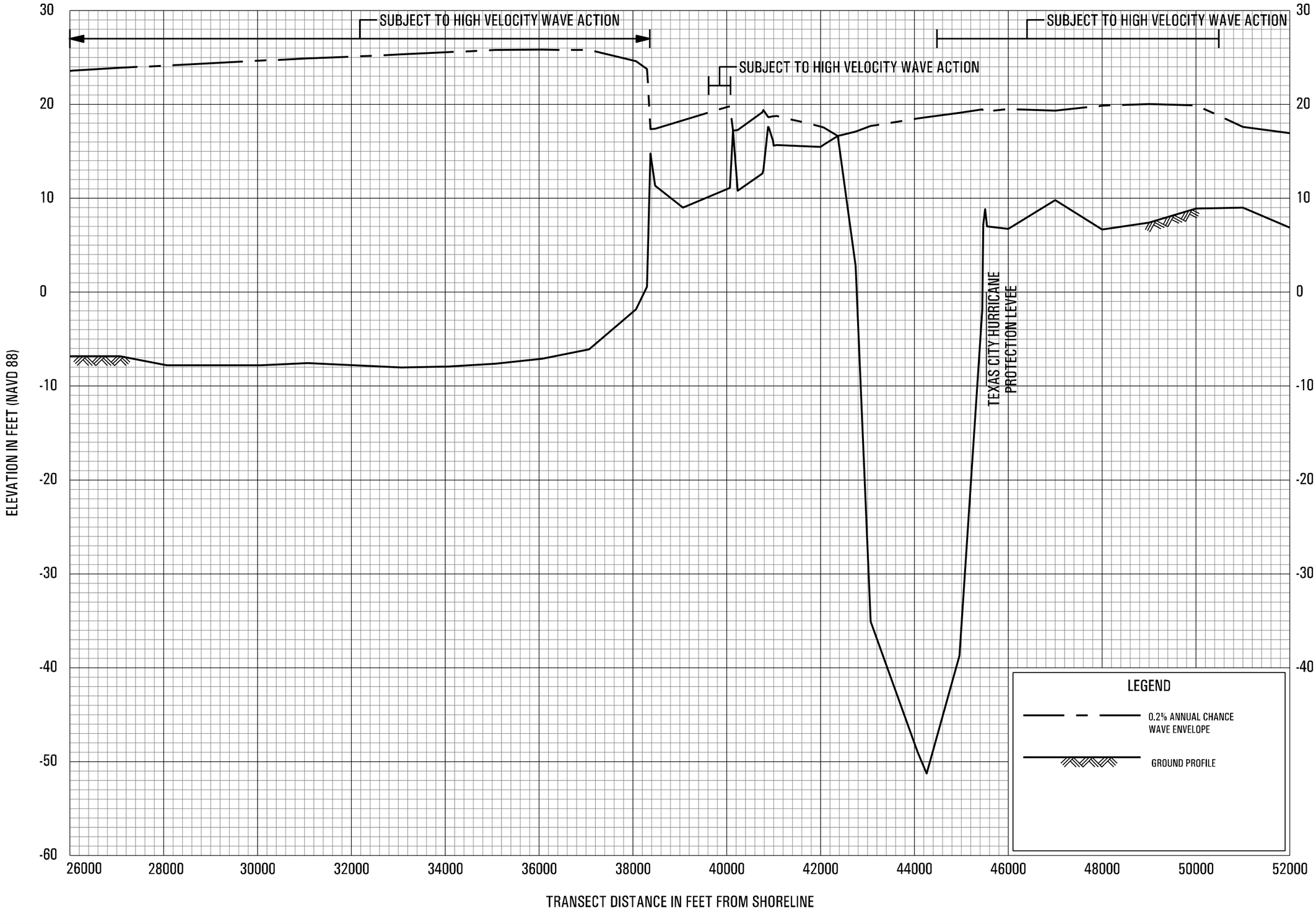
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 36

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

99P



0.2% ANNUAL CHANCE WAVE ENVELOPE

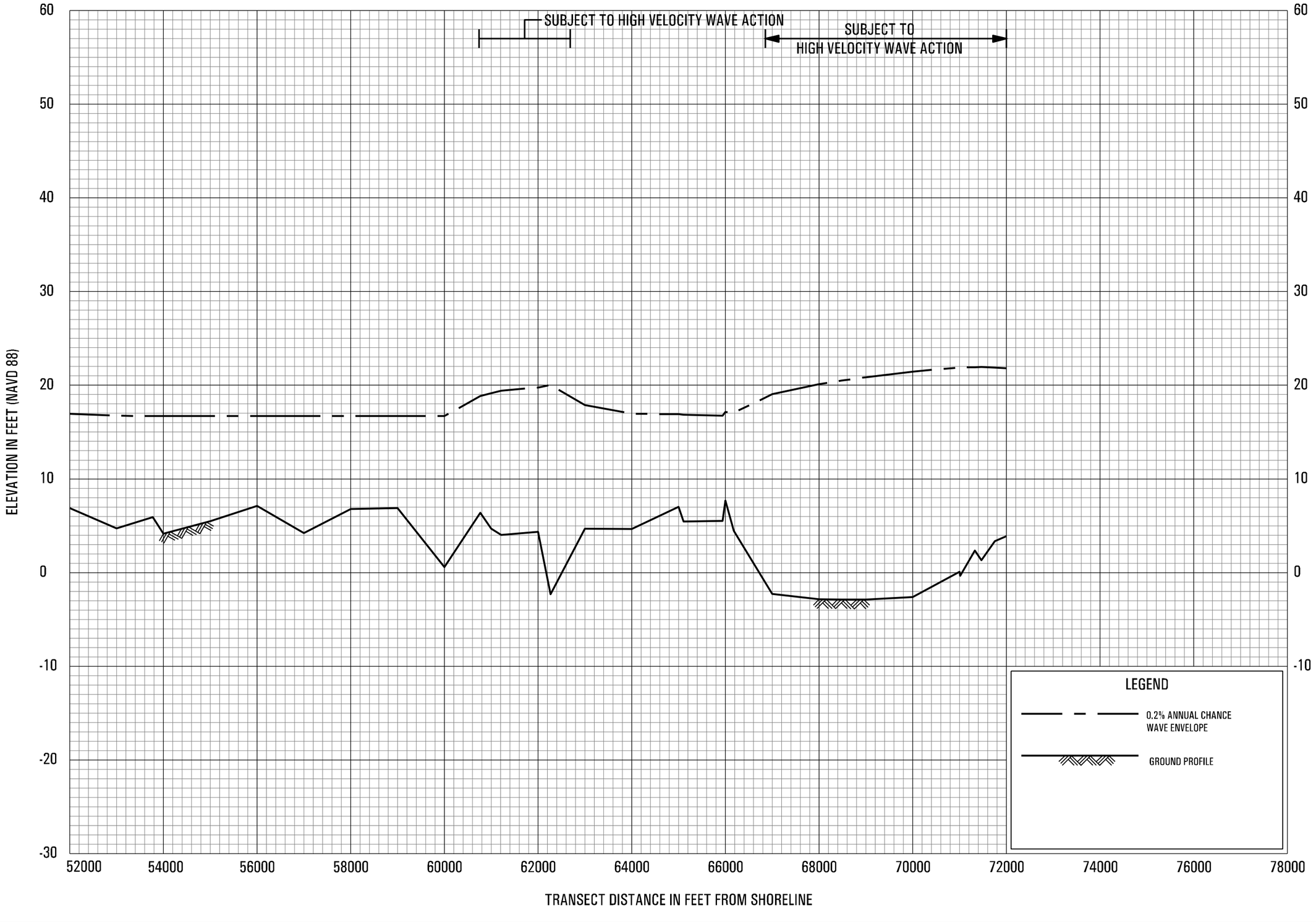
TRANSECT 36

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

100P



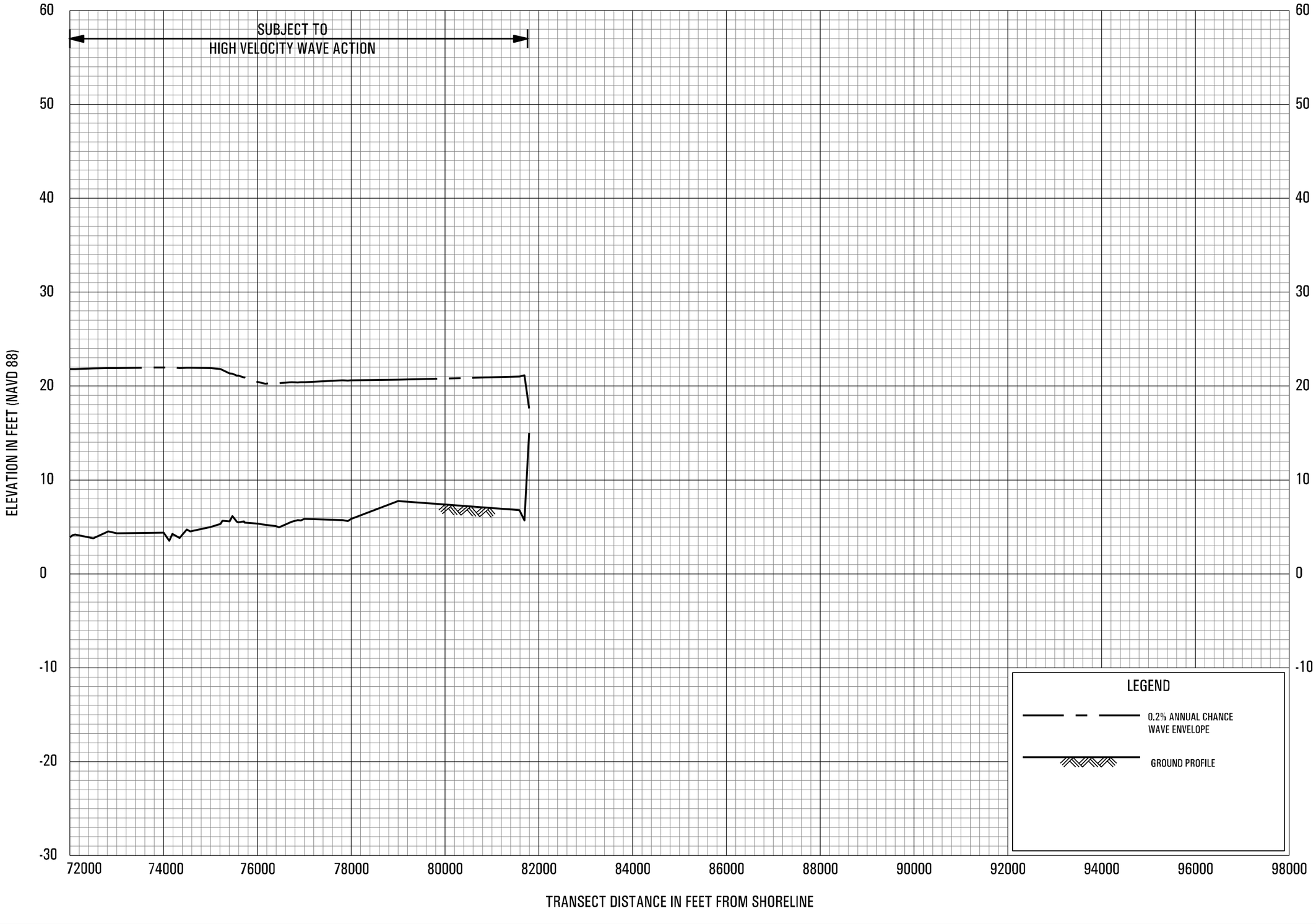
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 36

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

101P



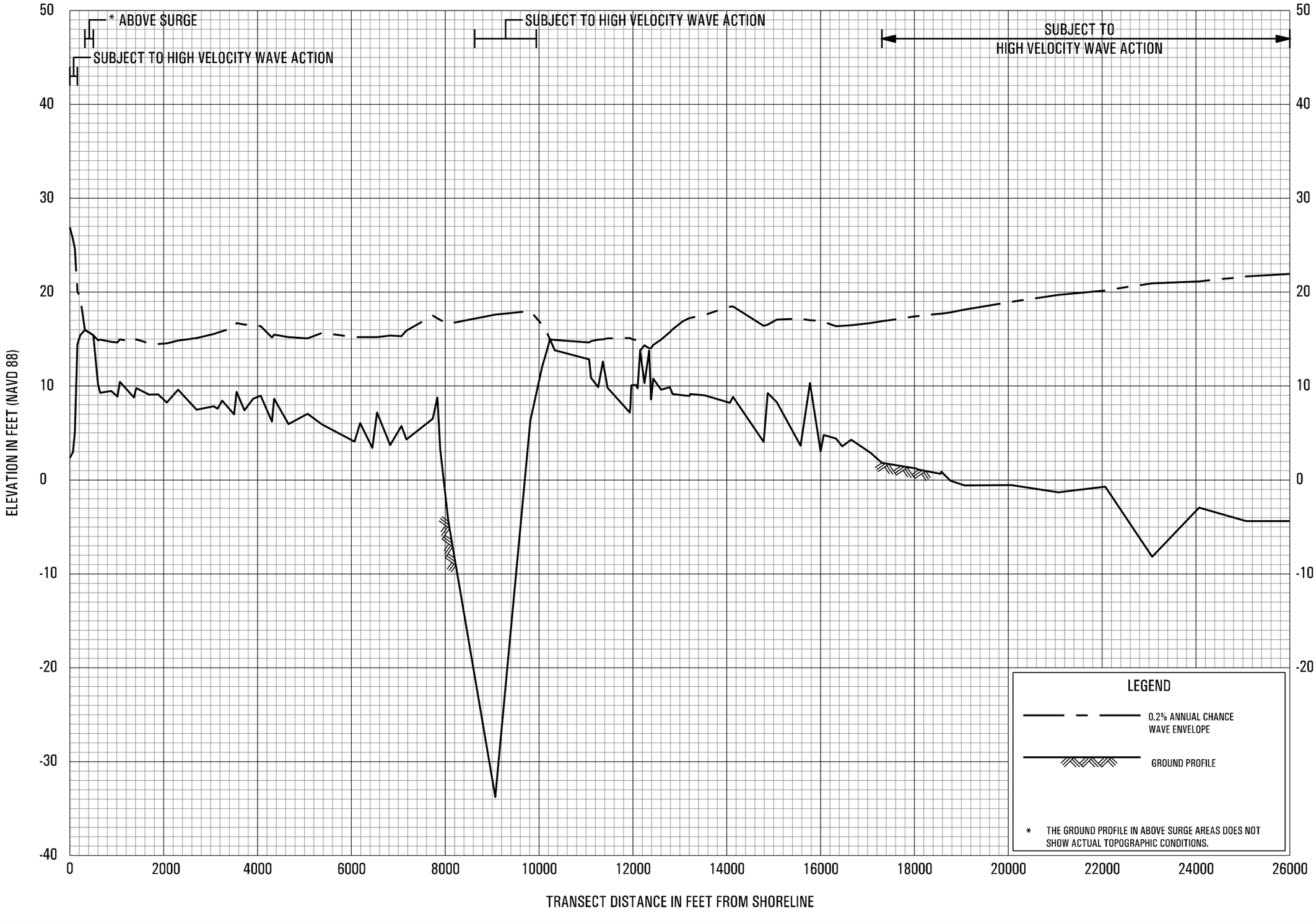
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 36

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

102P



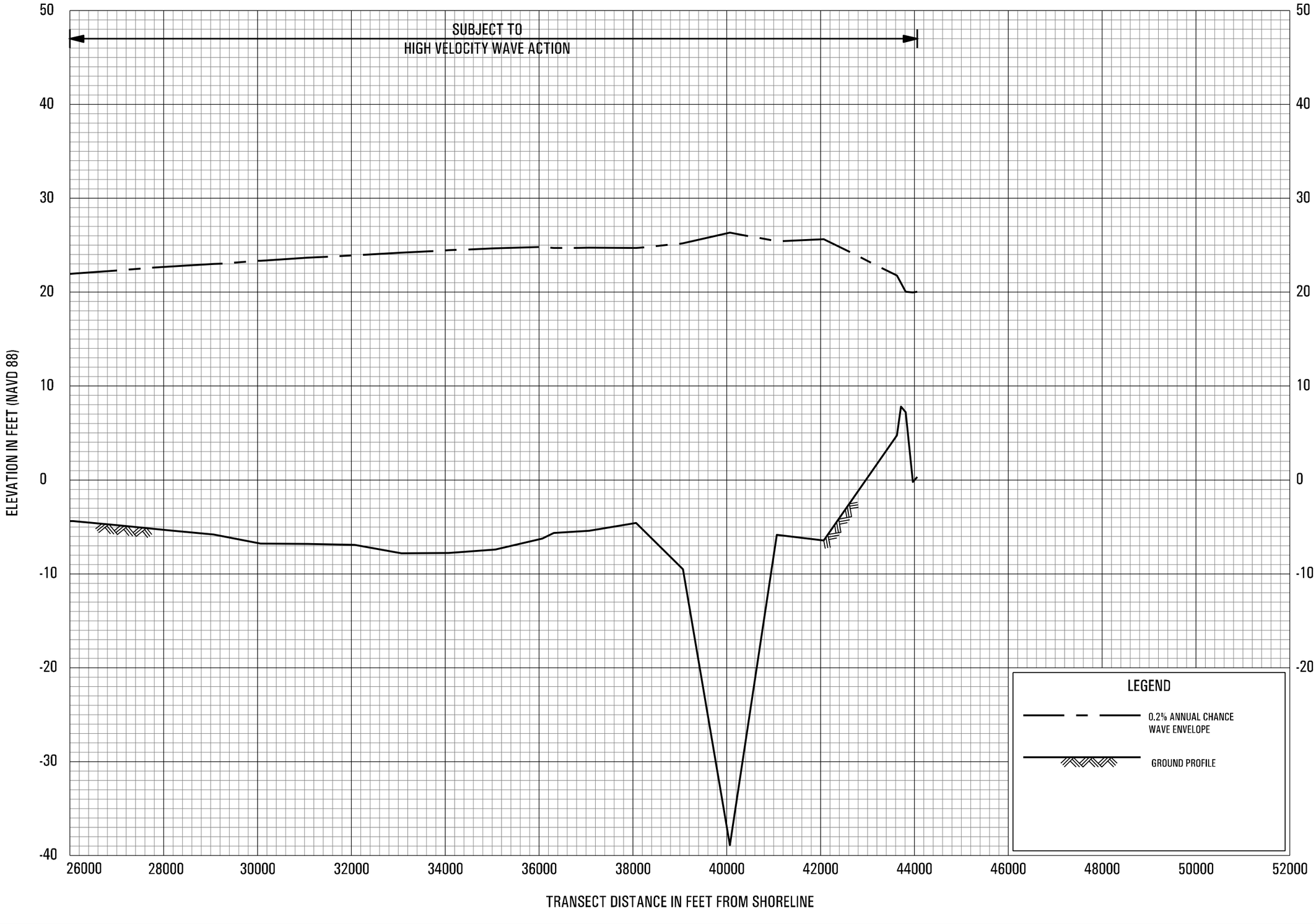
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 37

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

103P



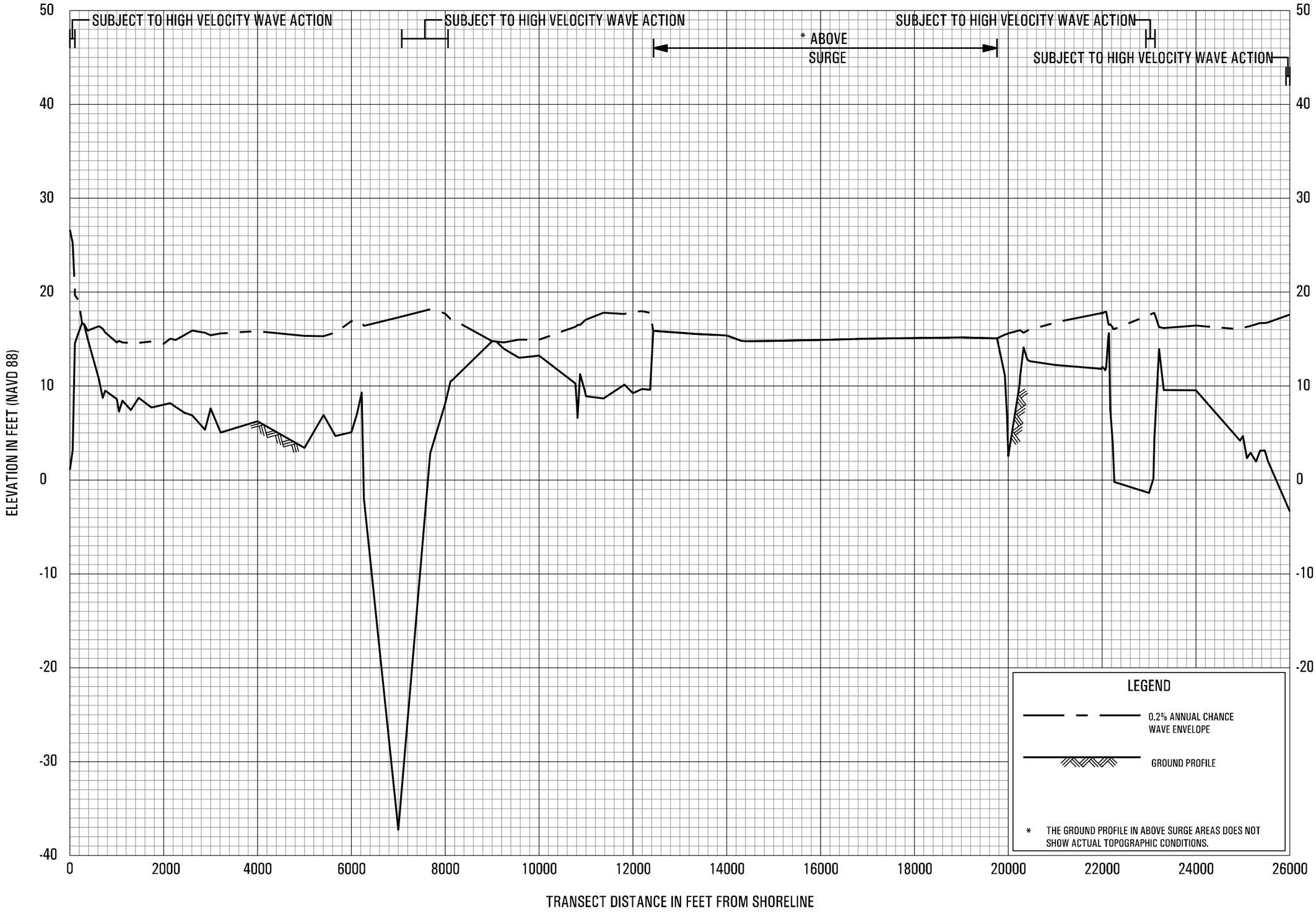
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 37

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

104P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 38

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

105P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

50
40
30
20
10
0
-10
-20
-30
-40

26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 38

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

106P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

52000
54000
56000
58000
60000
62000
64000
66000
68000
70000
72000
74000
76000
78000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 38

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

107P

SUBJECT TO
HIGH VELOCITY WAVE ACTION

ELEVATION IN FEET (NAVD 88)

60
50
40
30
20
10
0
-10
-20
-30

72000
74000
76000
78000
80000
82000
84000
86000
88000
90000
92000
94000
96000
98000

TRANSECT DISTANCE IN FEET FROM SHORELINE

LEGEND

0.2% ANNUAL CHANCE WAVE ENVELOPE

GROUND PROFILE

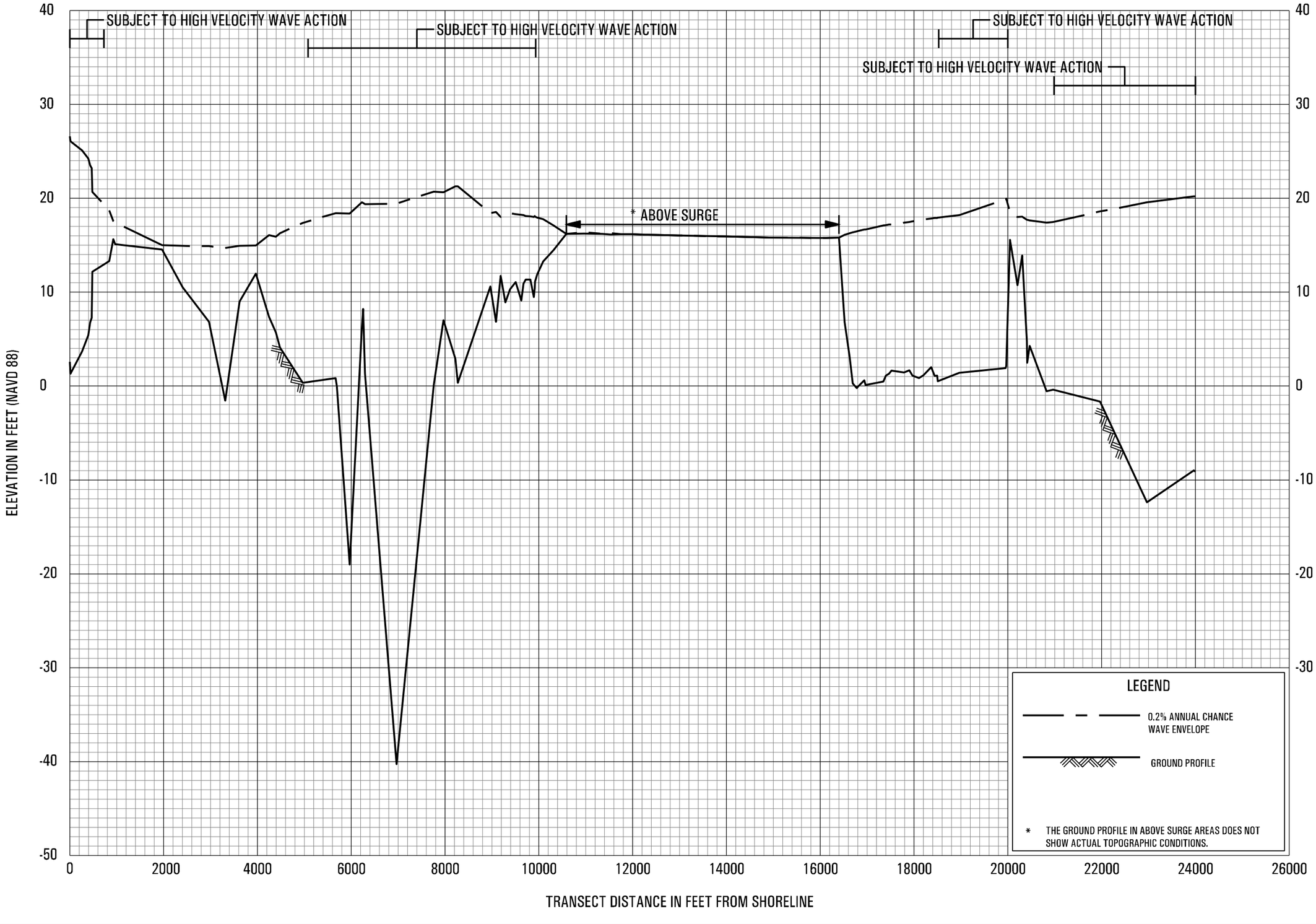
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 38

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

108P



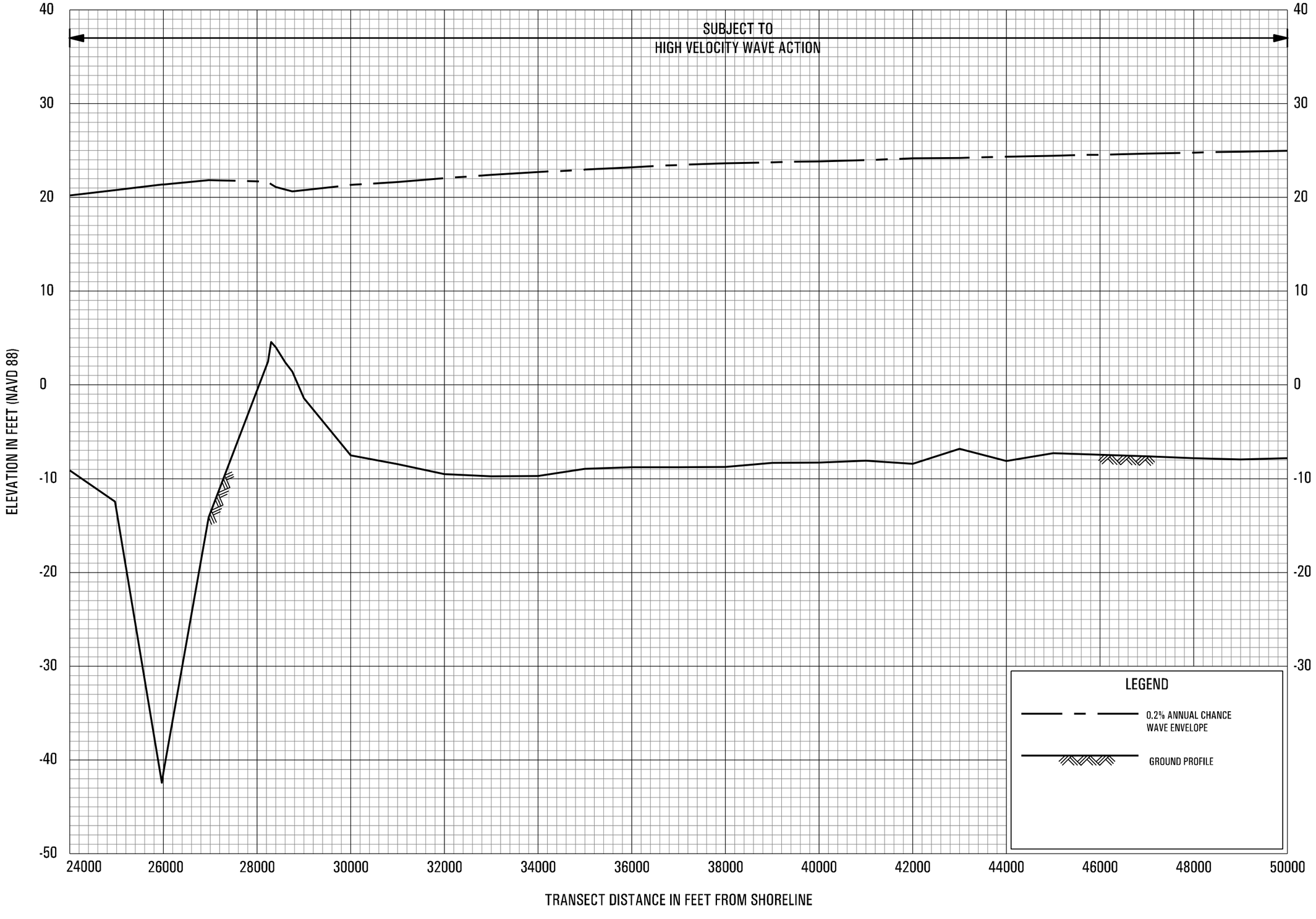
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 39

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

109P



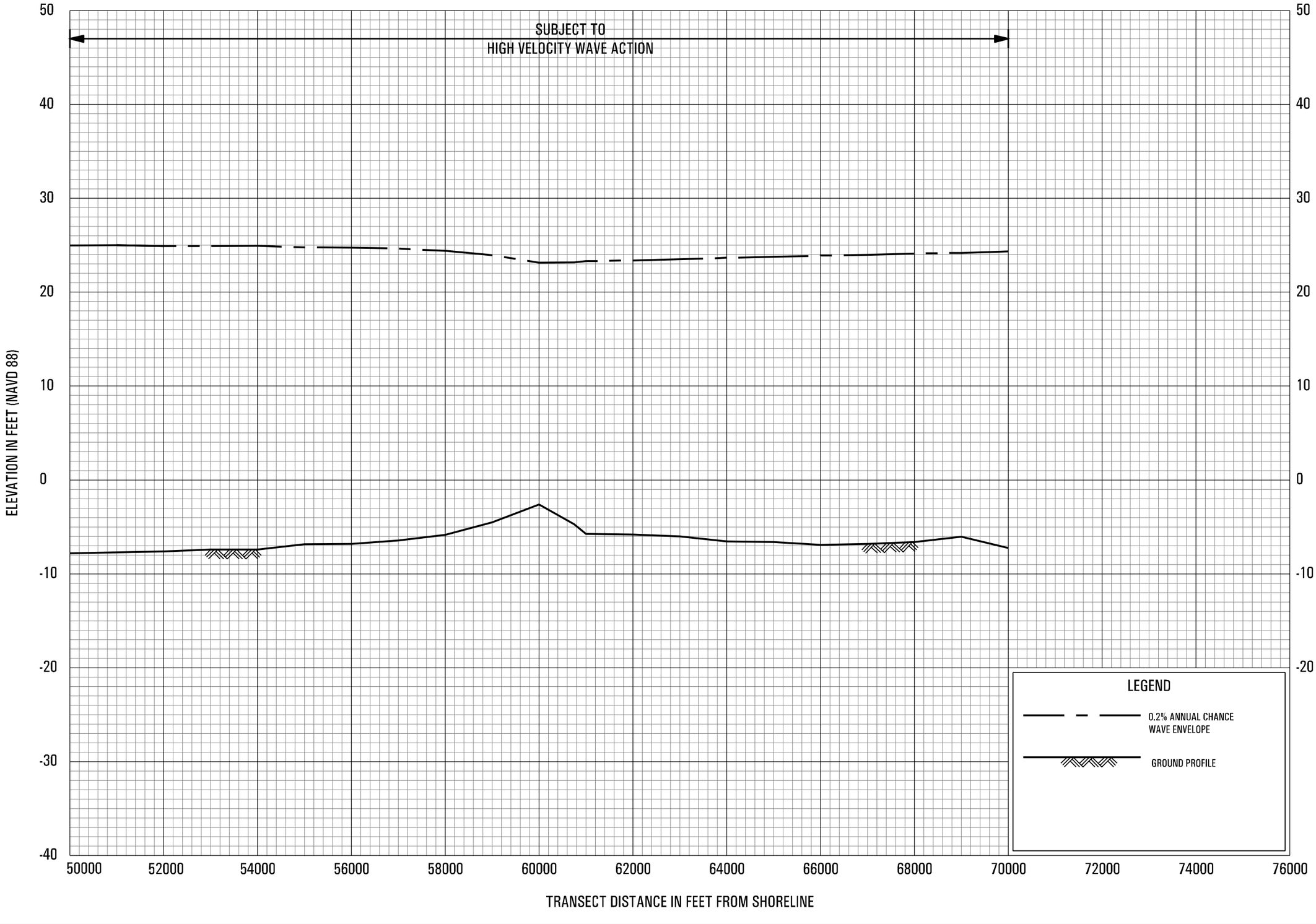
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 39

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

110P



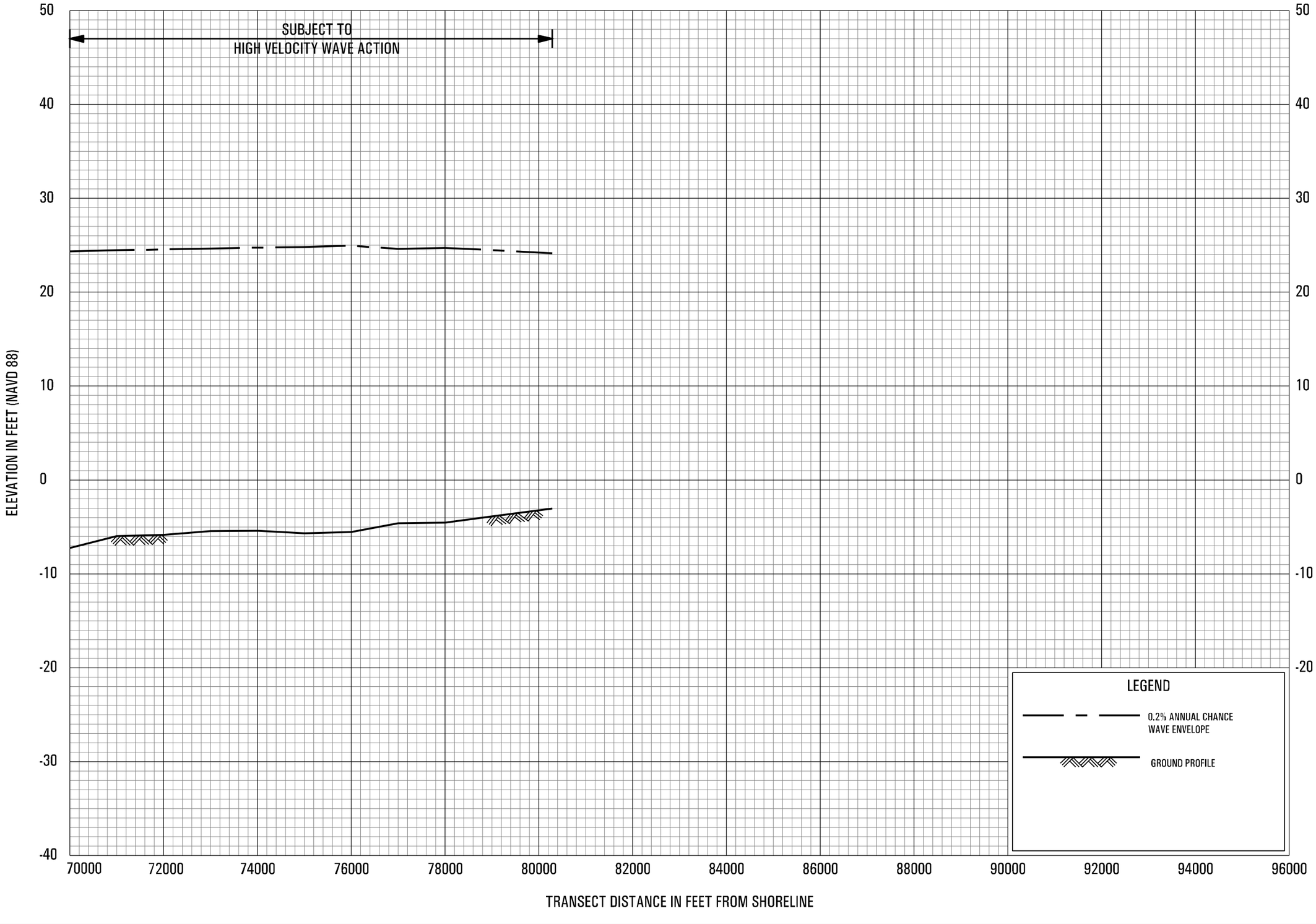
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 39

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

111P



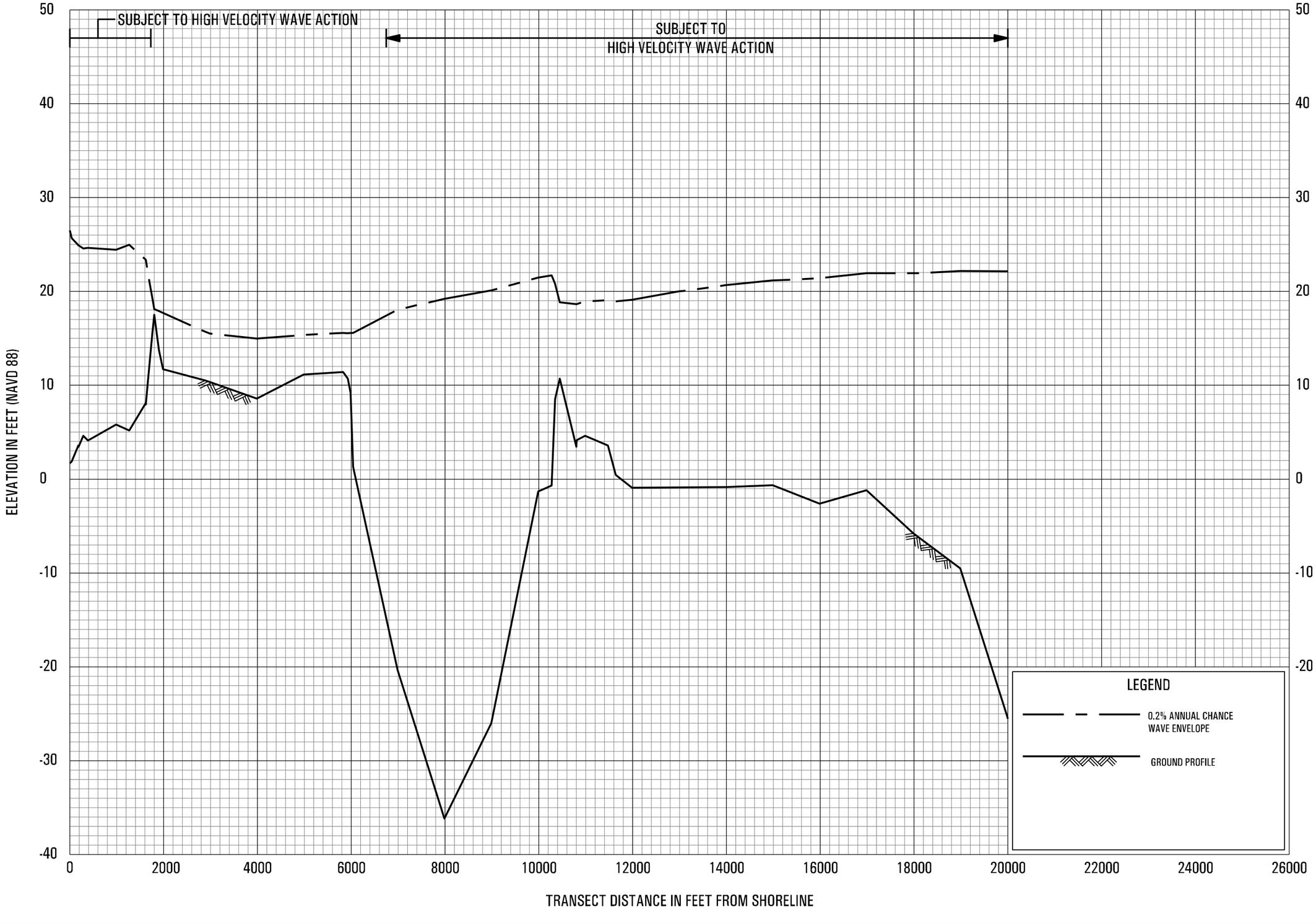
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 39

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

112P



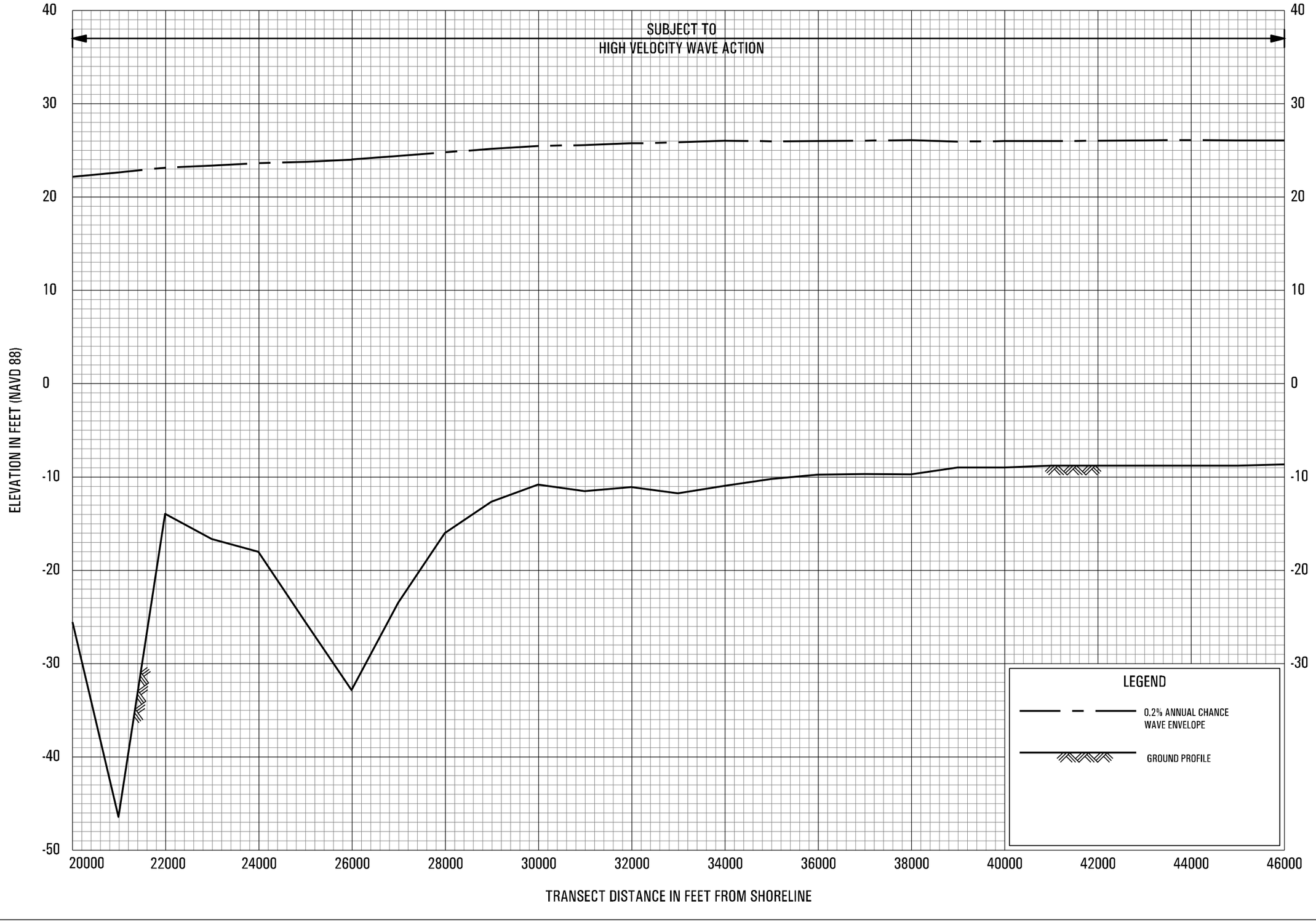
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 40

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

113P



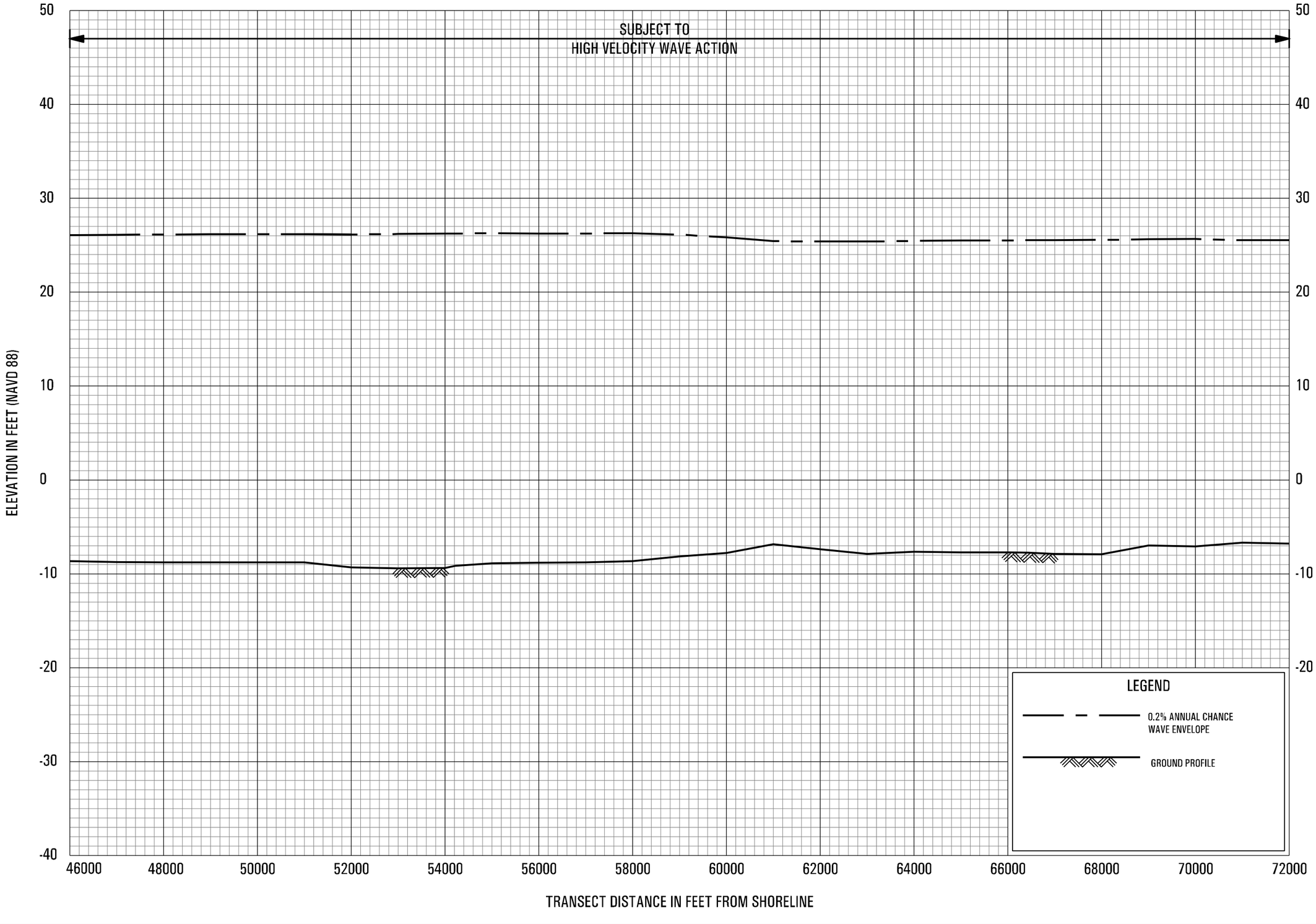
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 40

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

114P



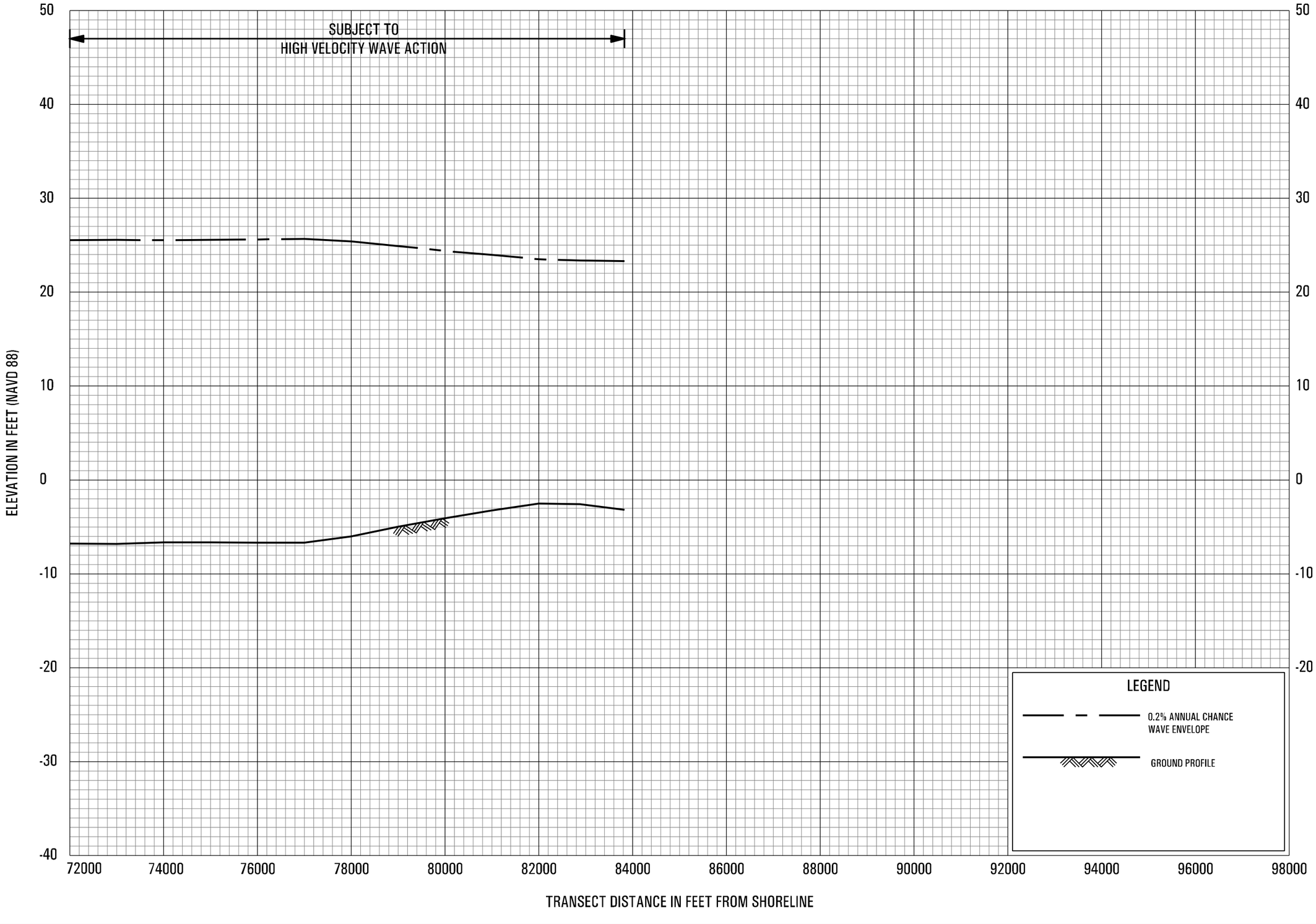
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 40

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

115P



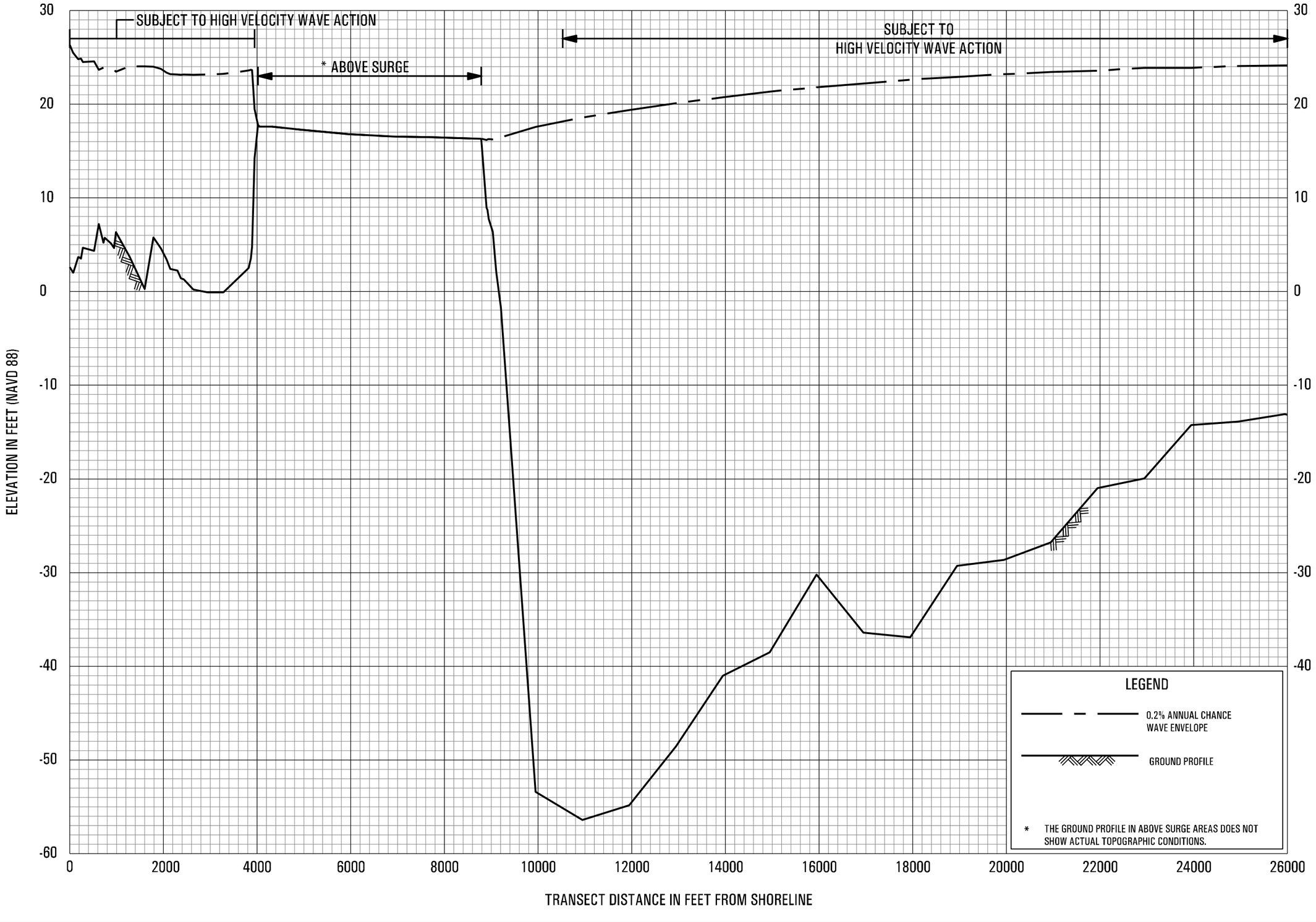
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 40

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

116P



0.2% ANNUAL CHANCE WAVE ENVELOPE

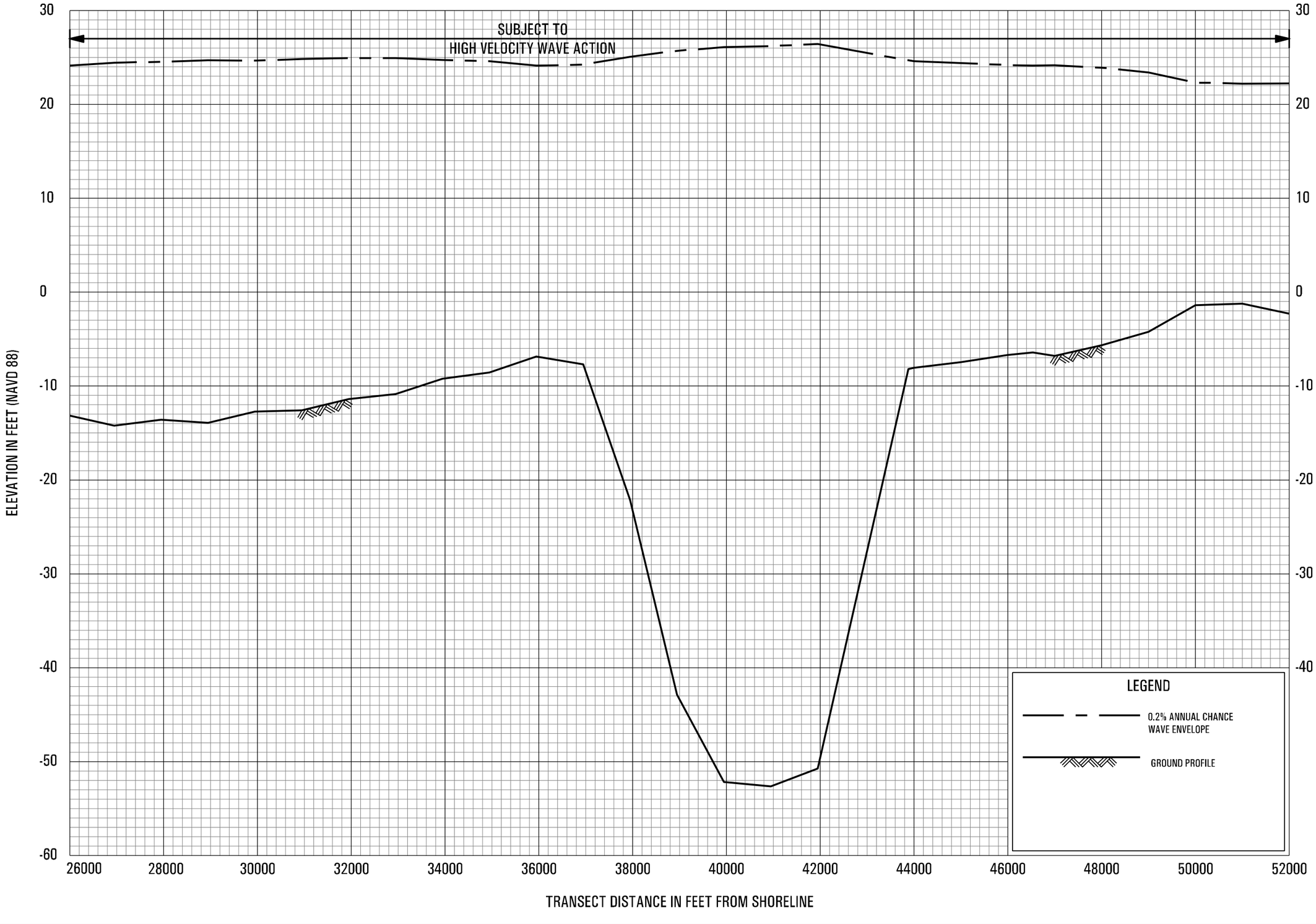
TRANSECT 41

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

117P



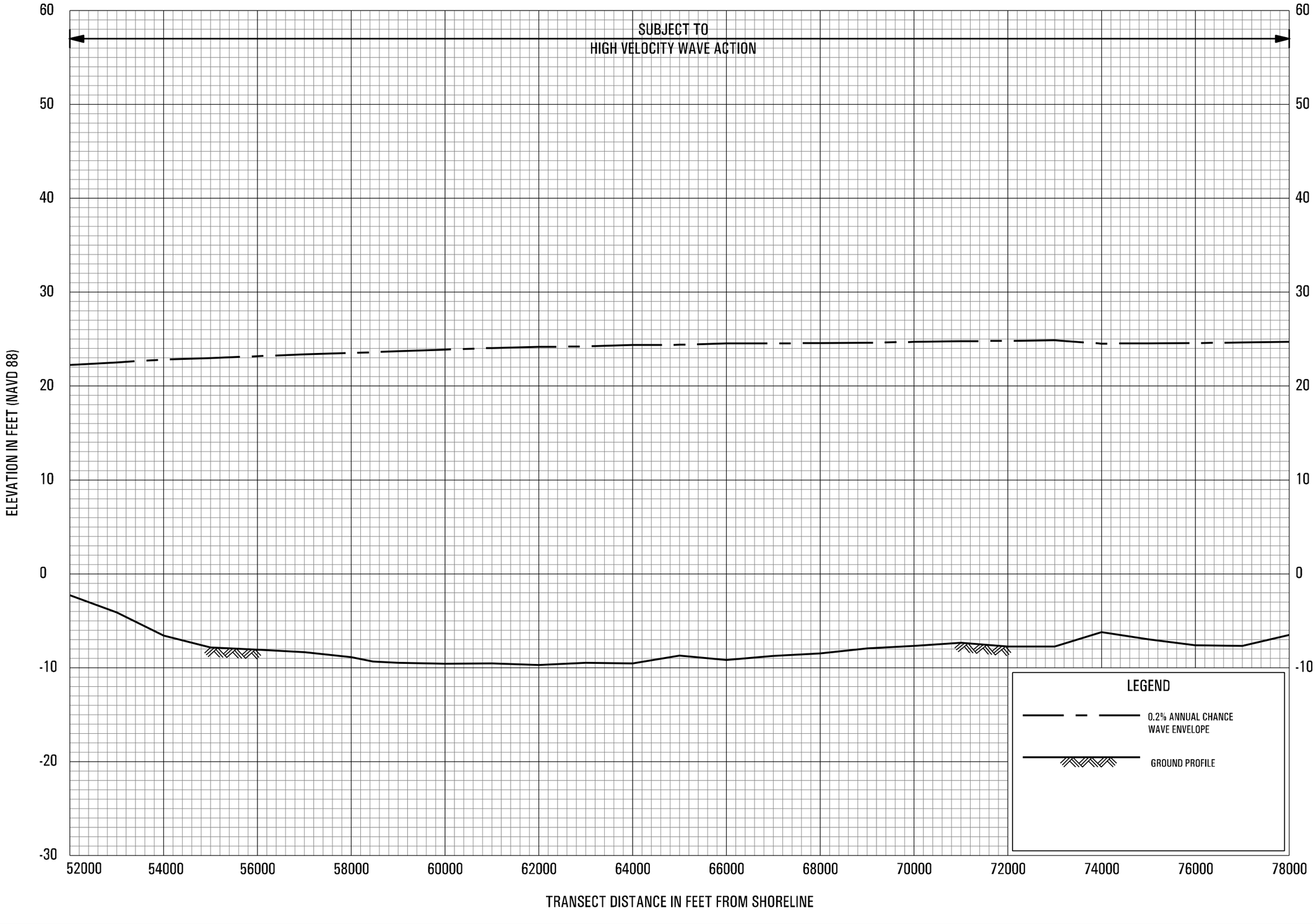
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 41

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

118P



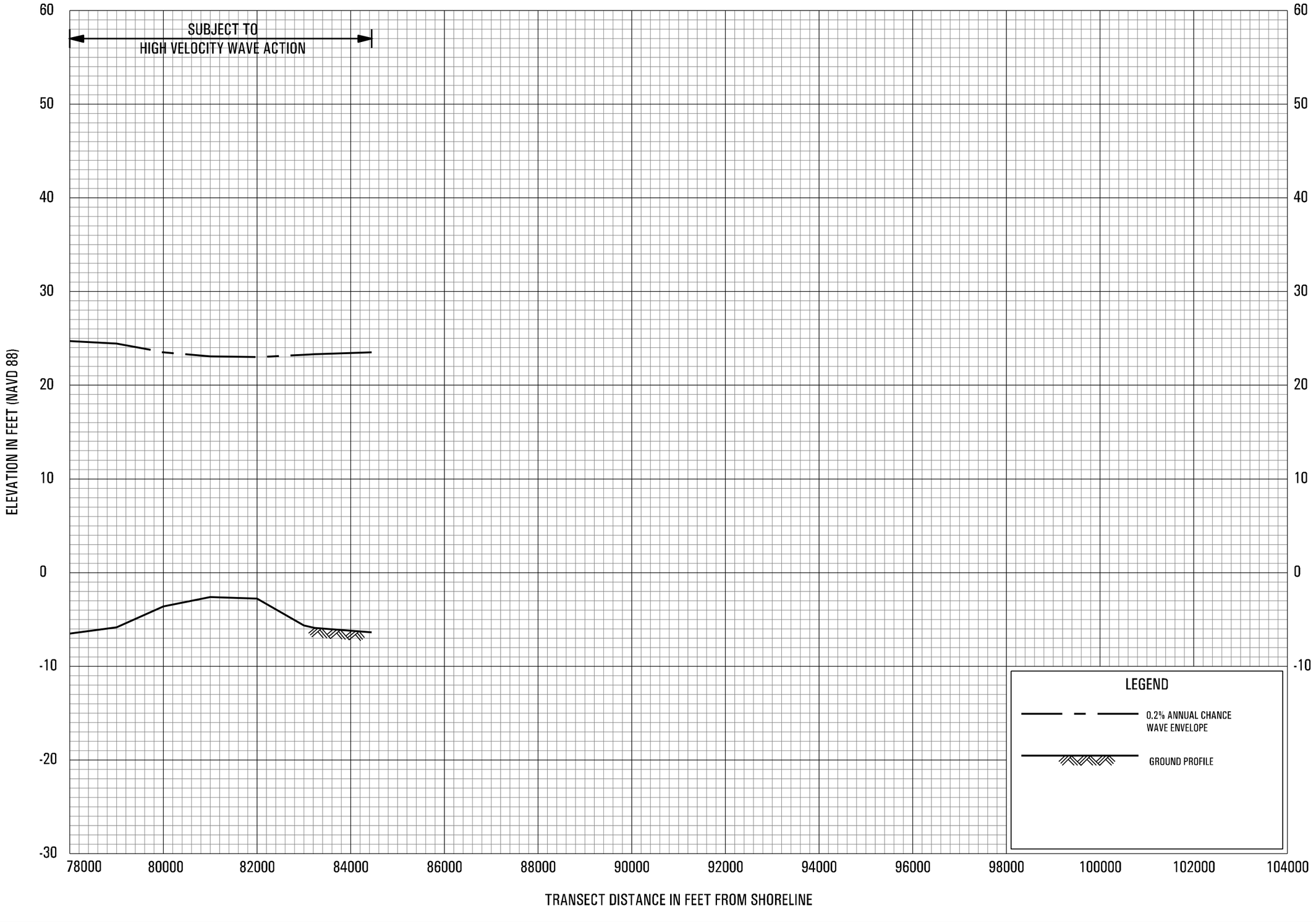
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 41

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

119P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 41

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

120P



0.2% ANNUAL CHANCE WAVE ENVELOPE

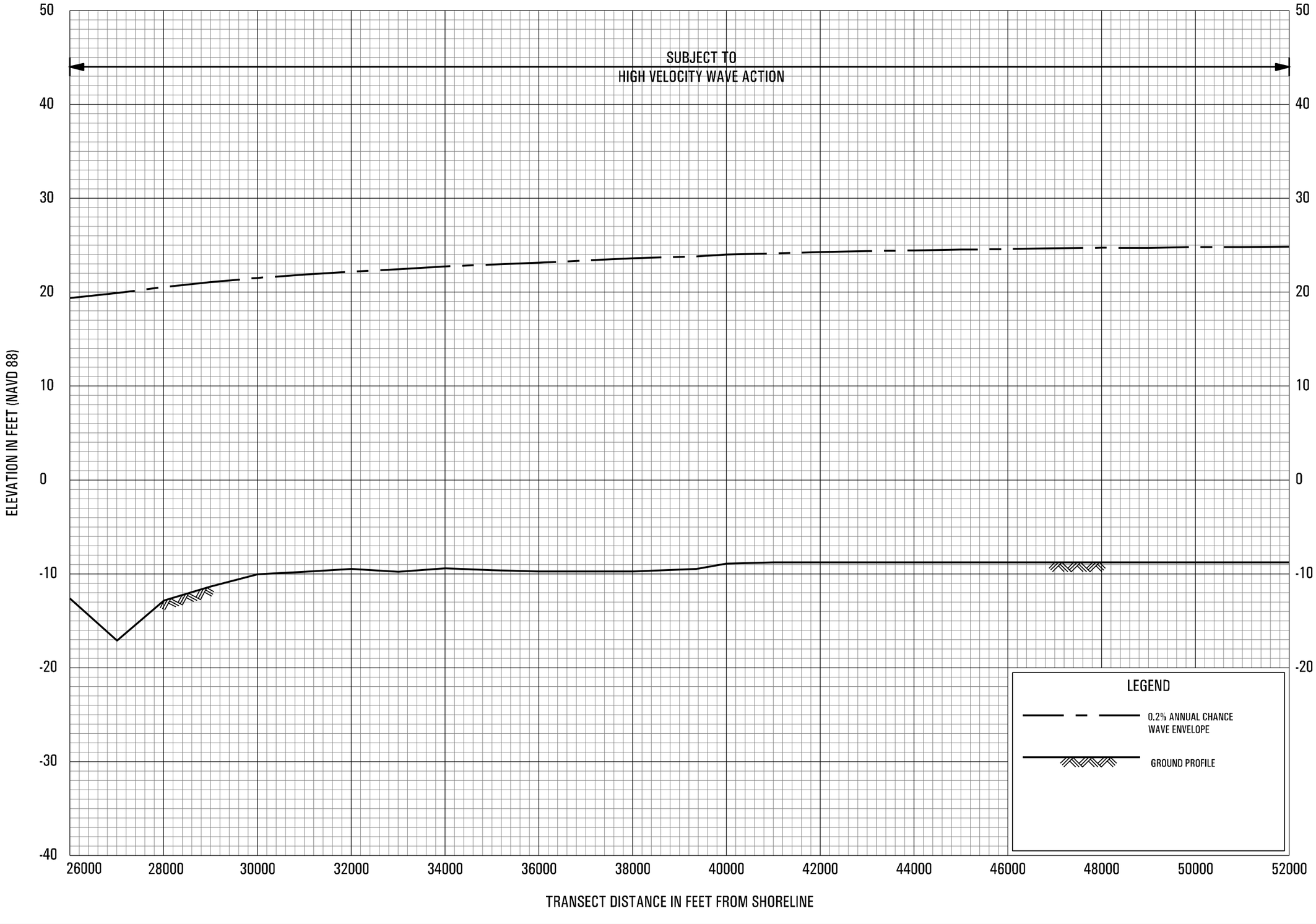
TRANSECT 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

121P



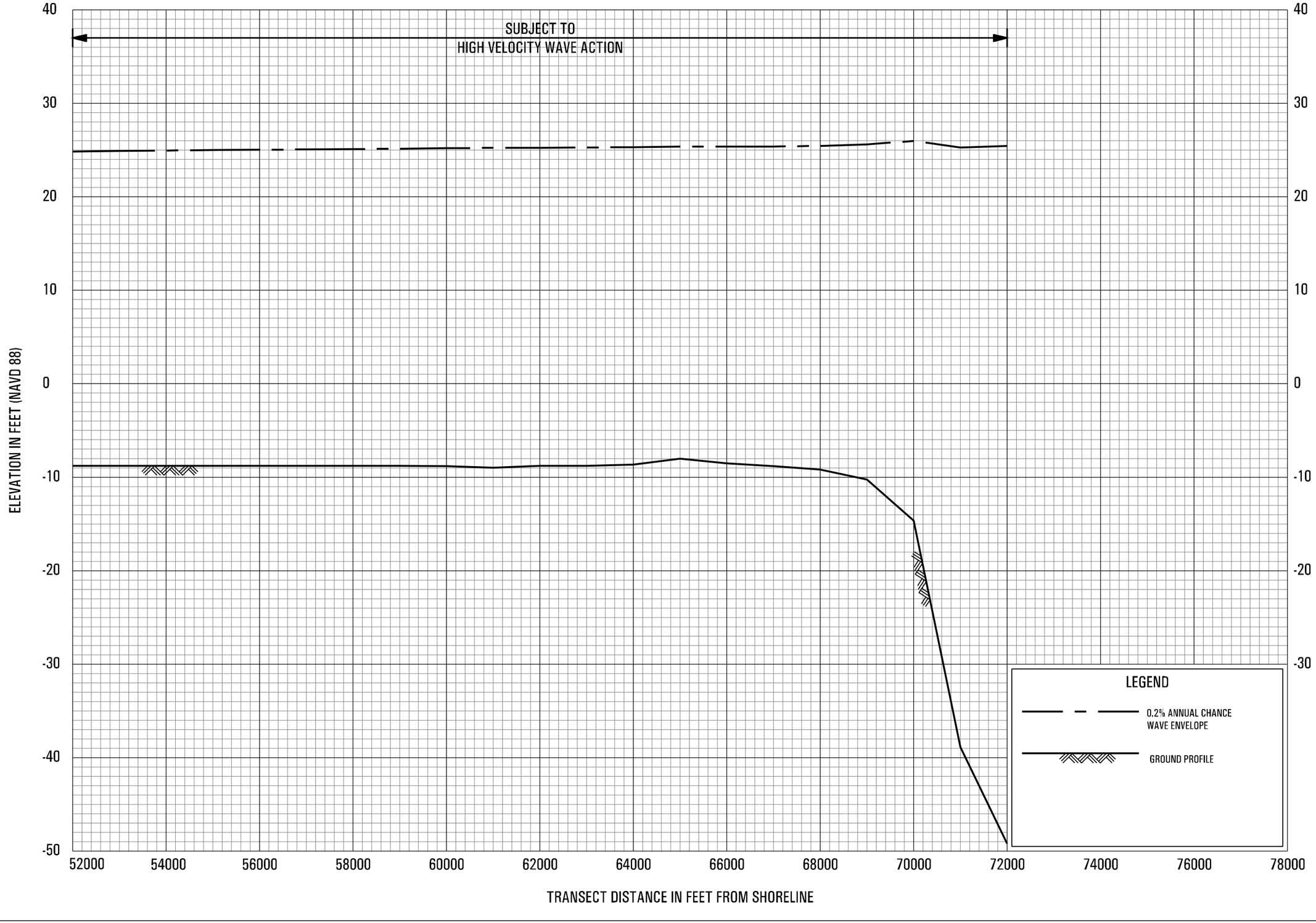
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

122P



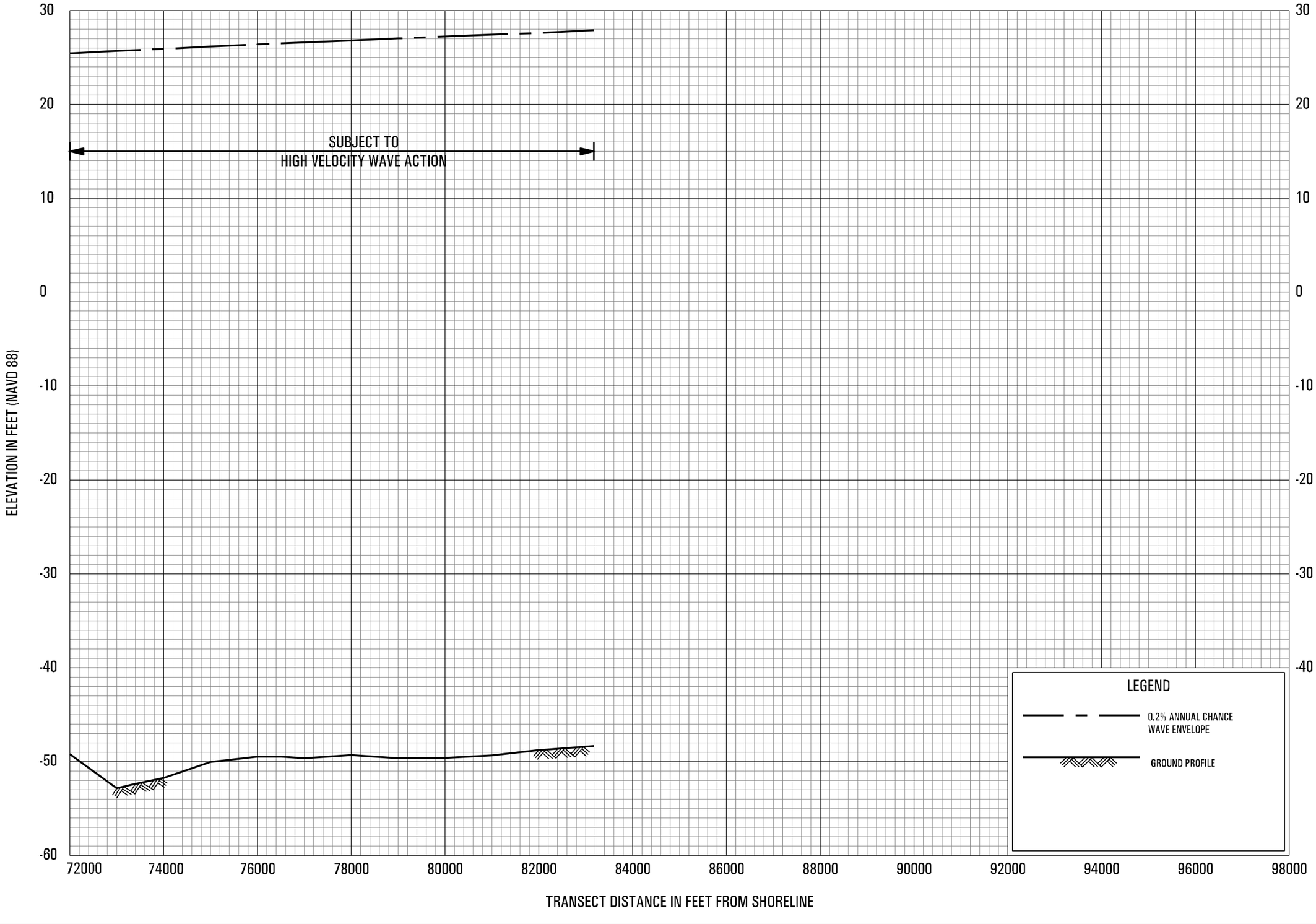
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

123P



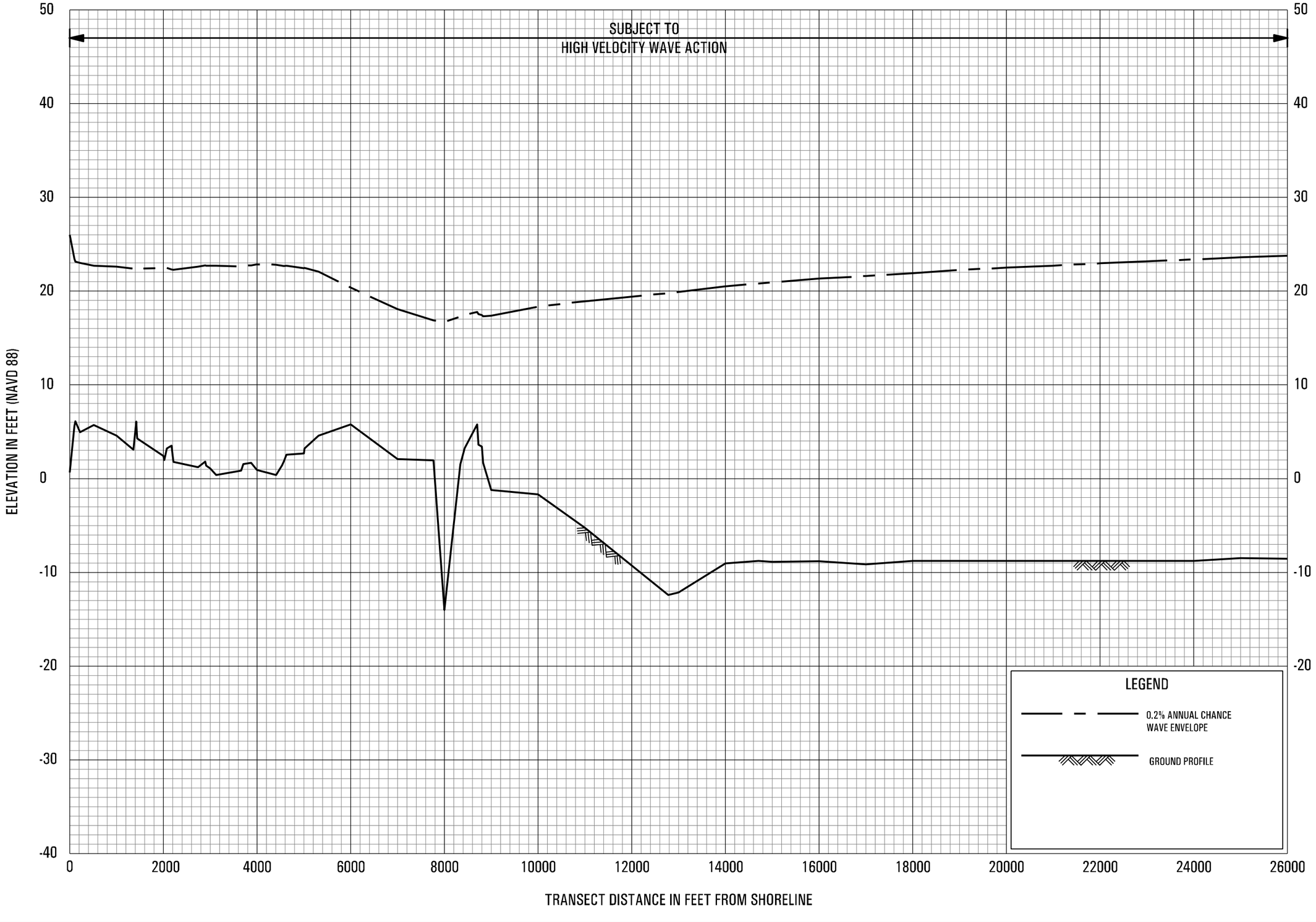
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

124P



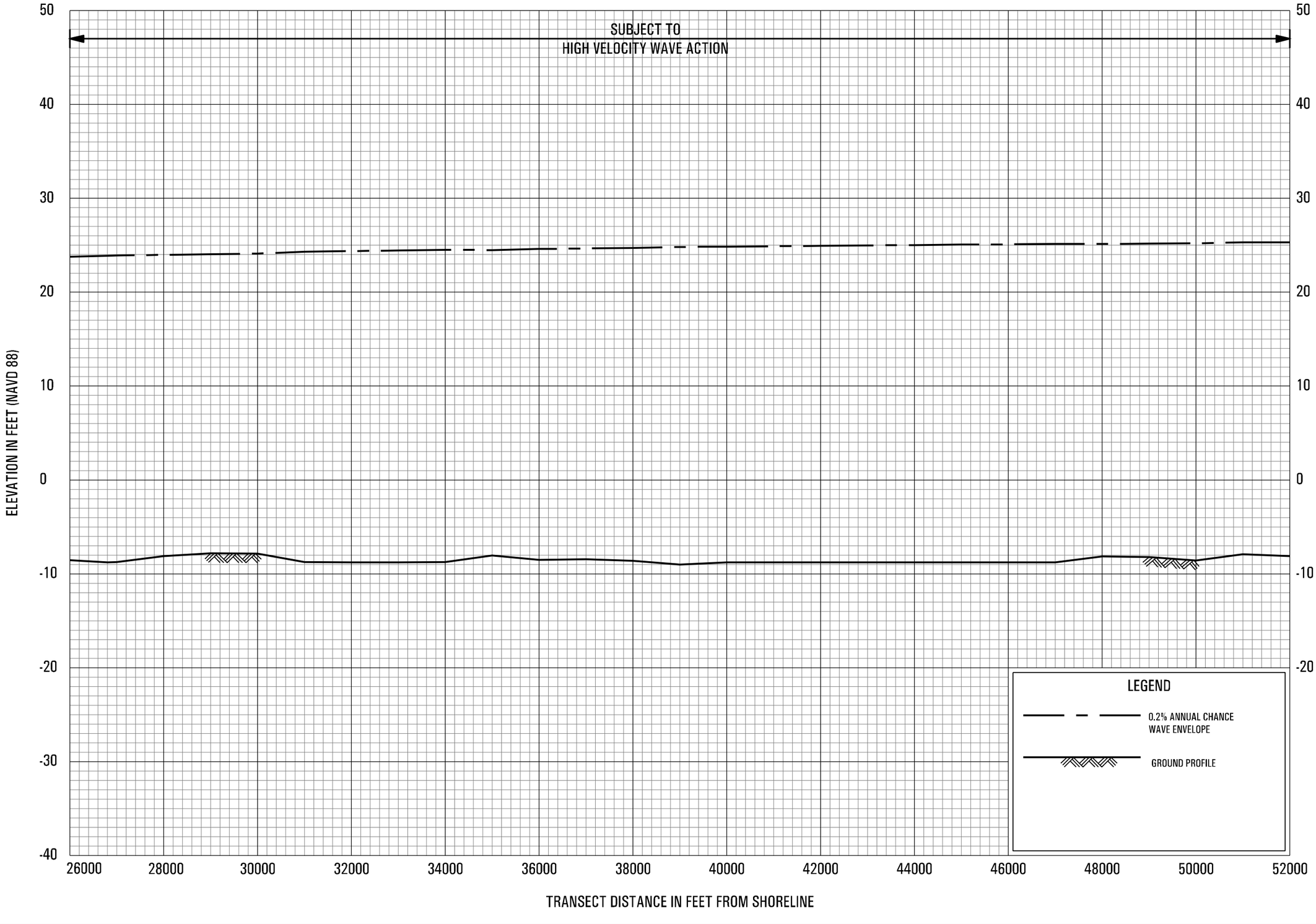
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

125P



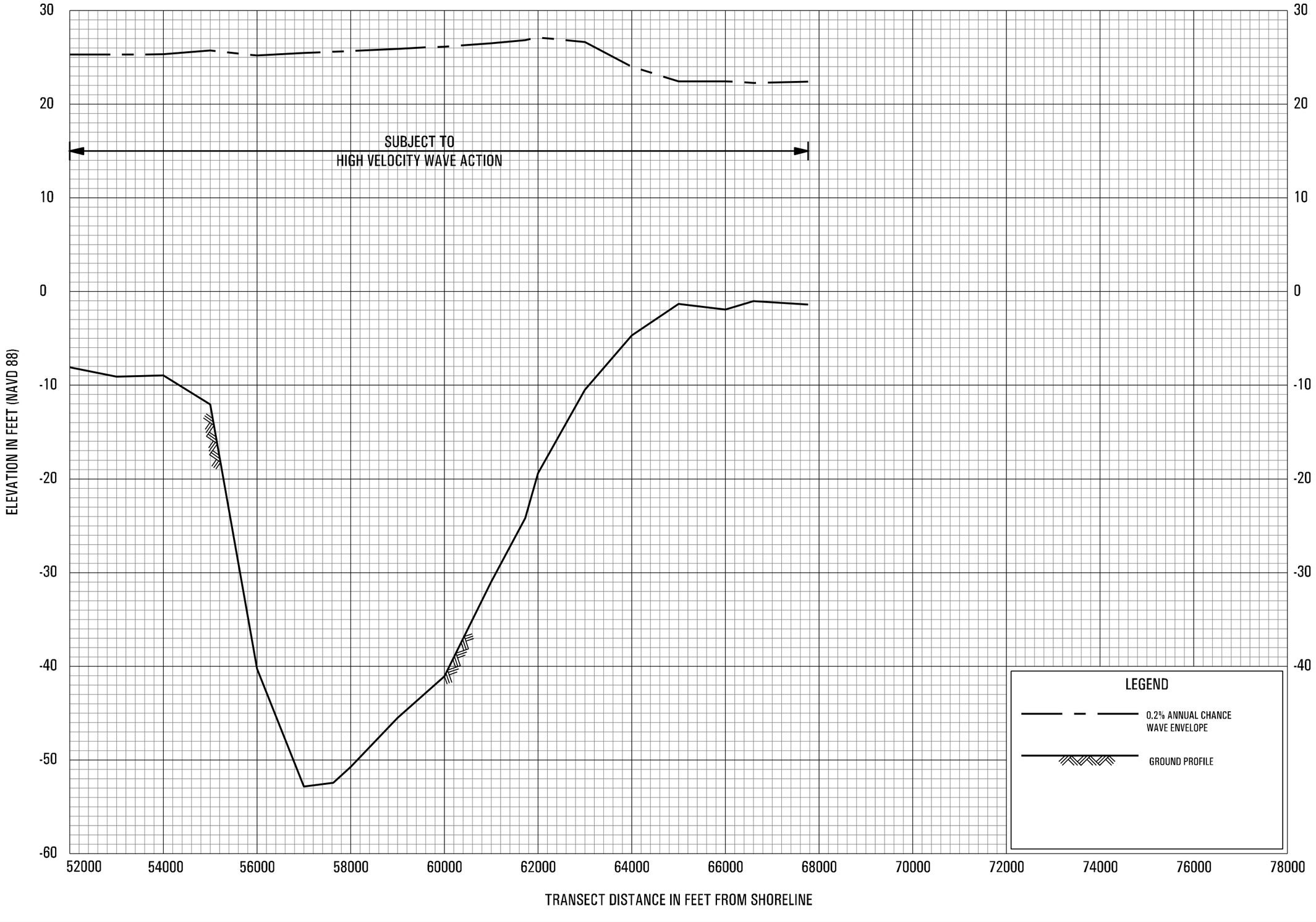
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

126P



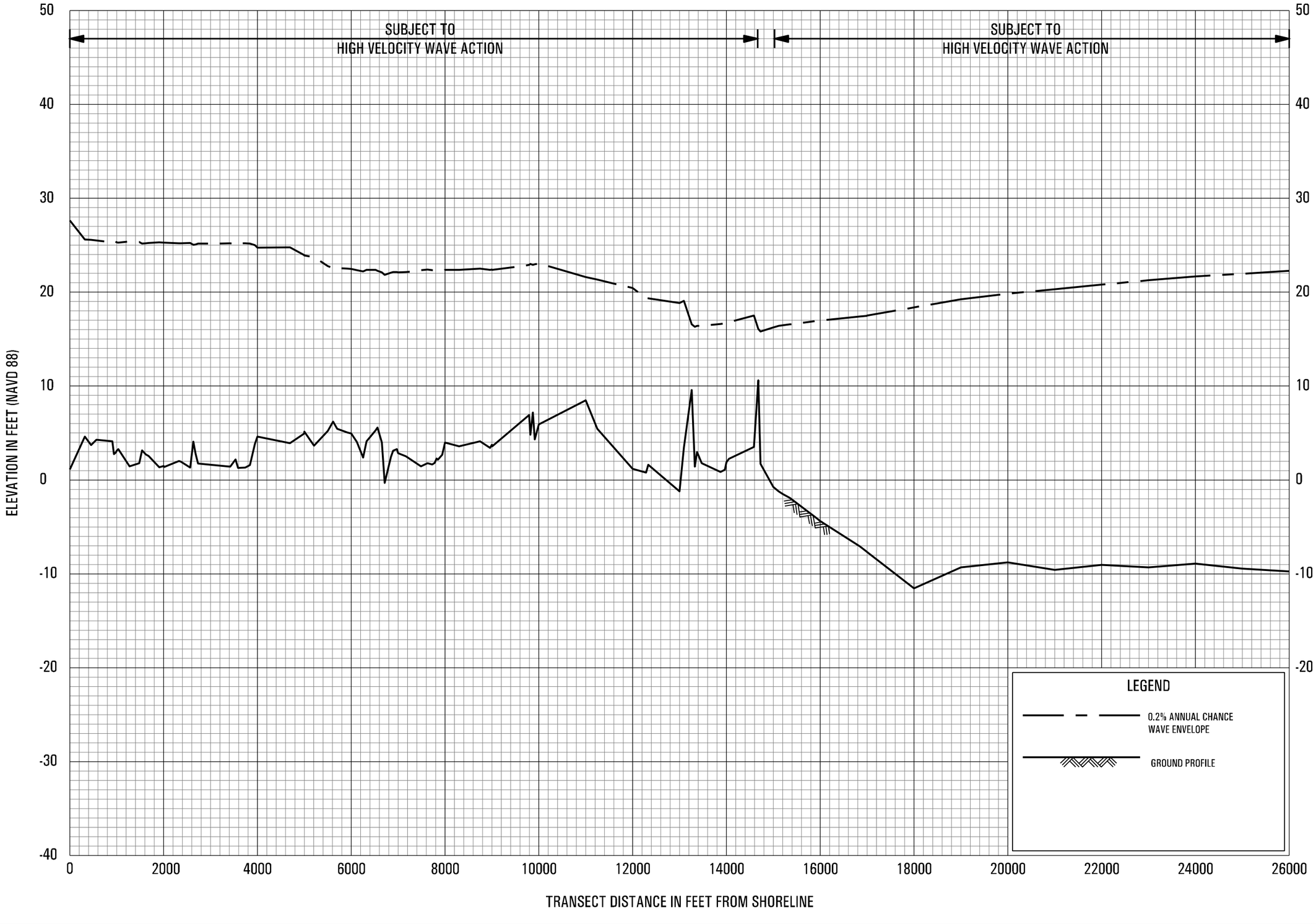
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

127P



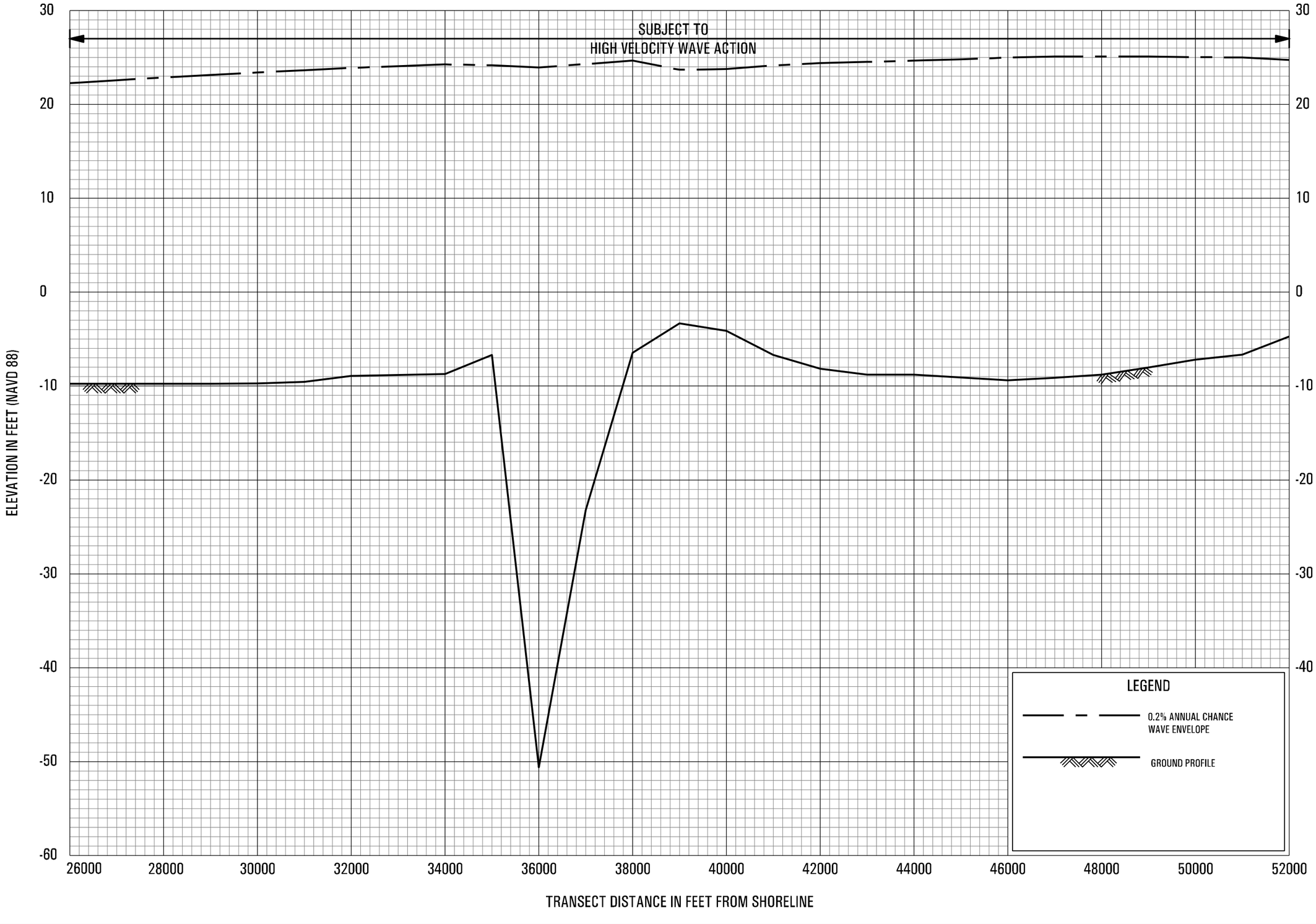
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

128P



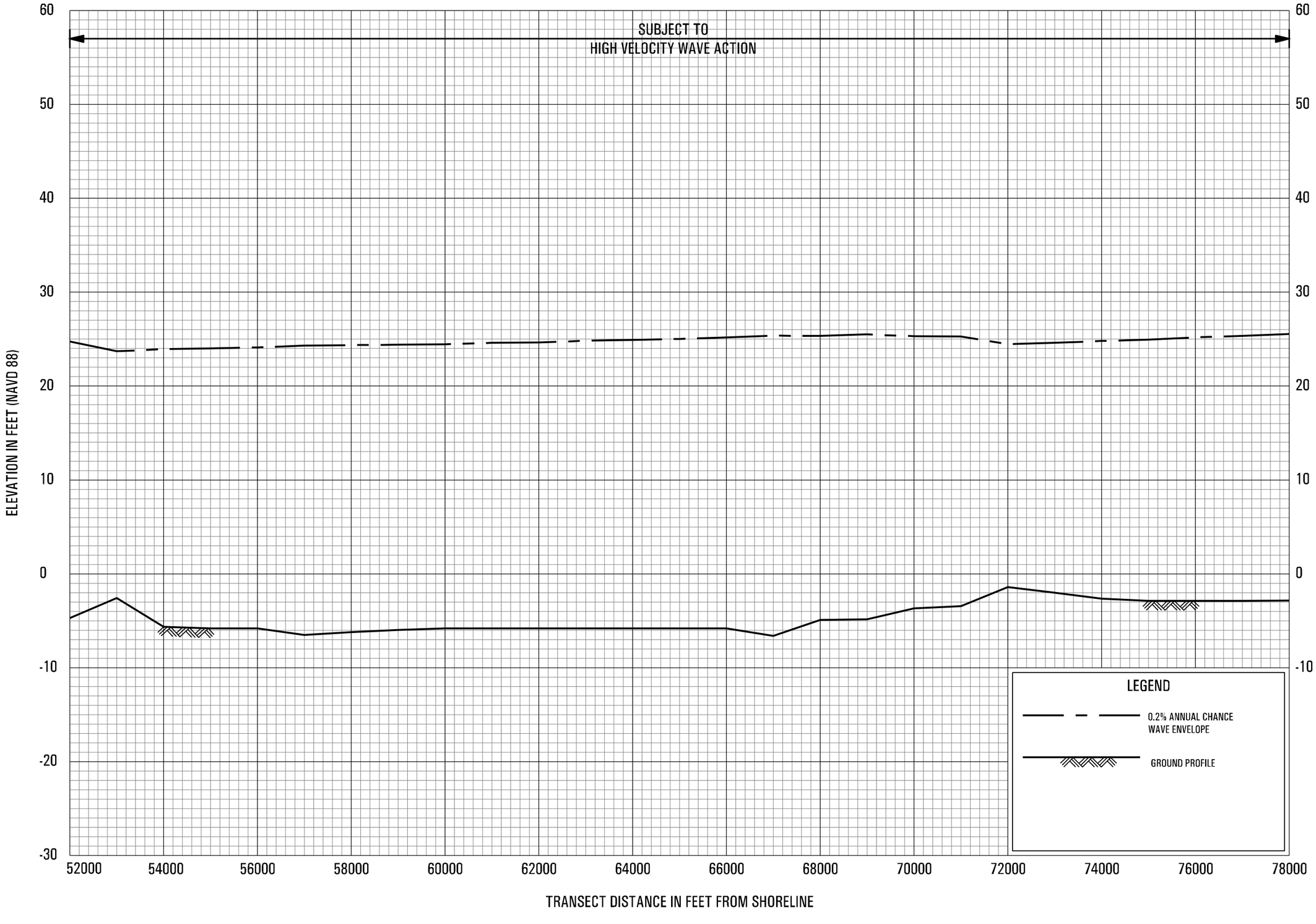
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

129P



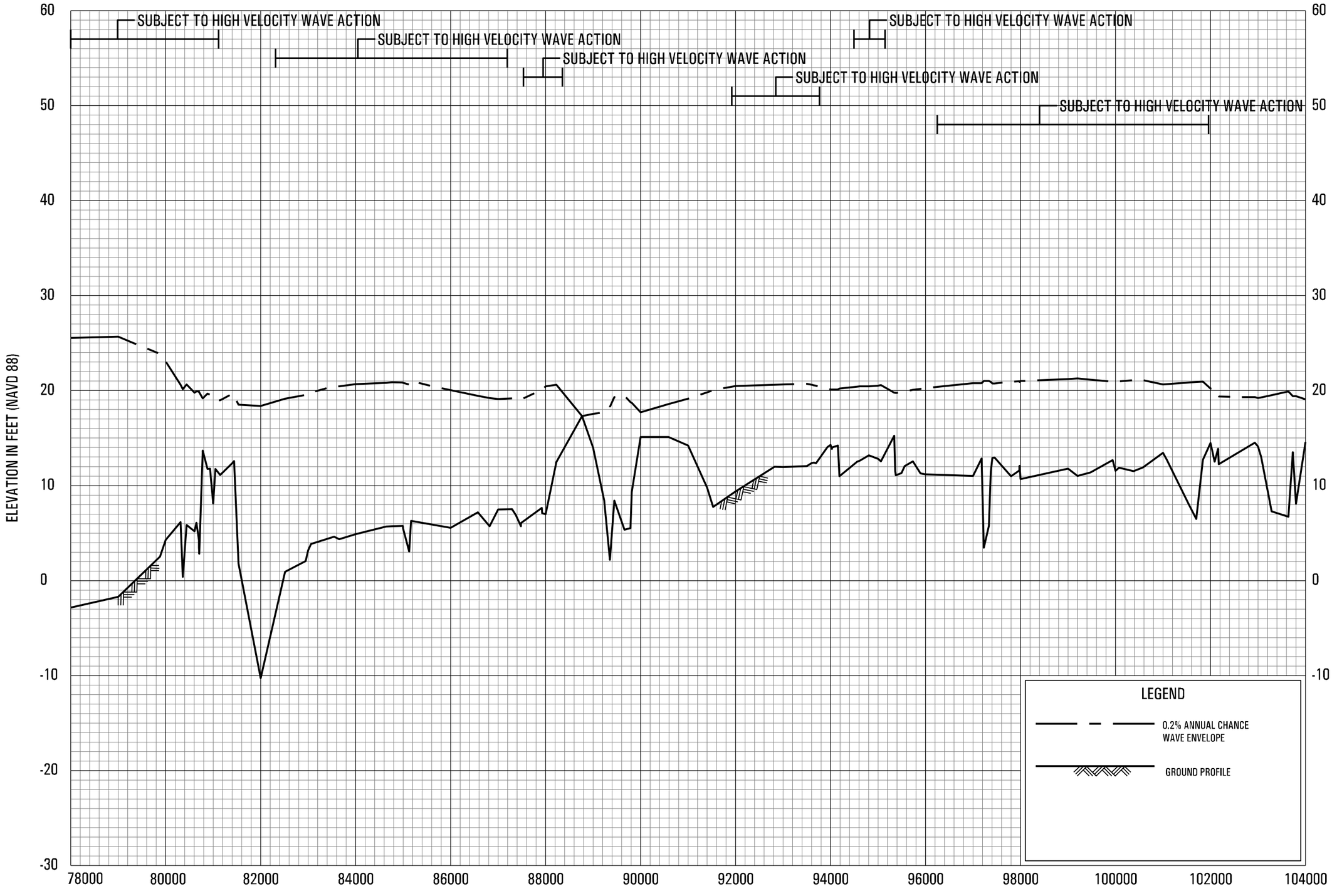
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

130P



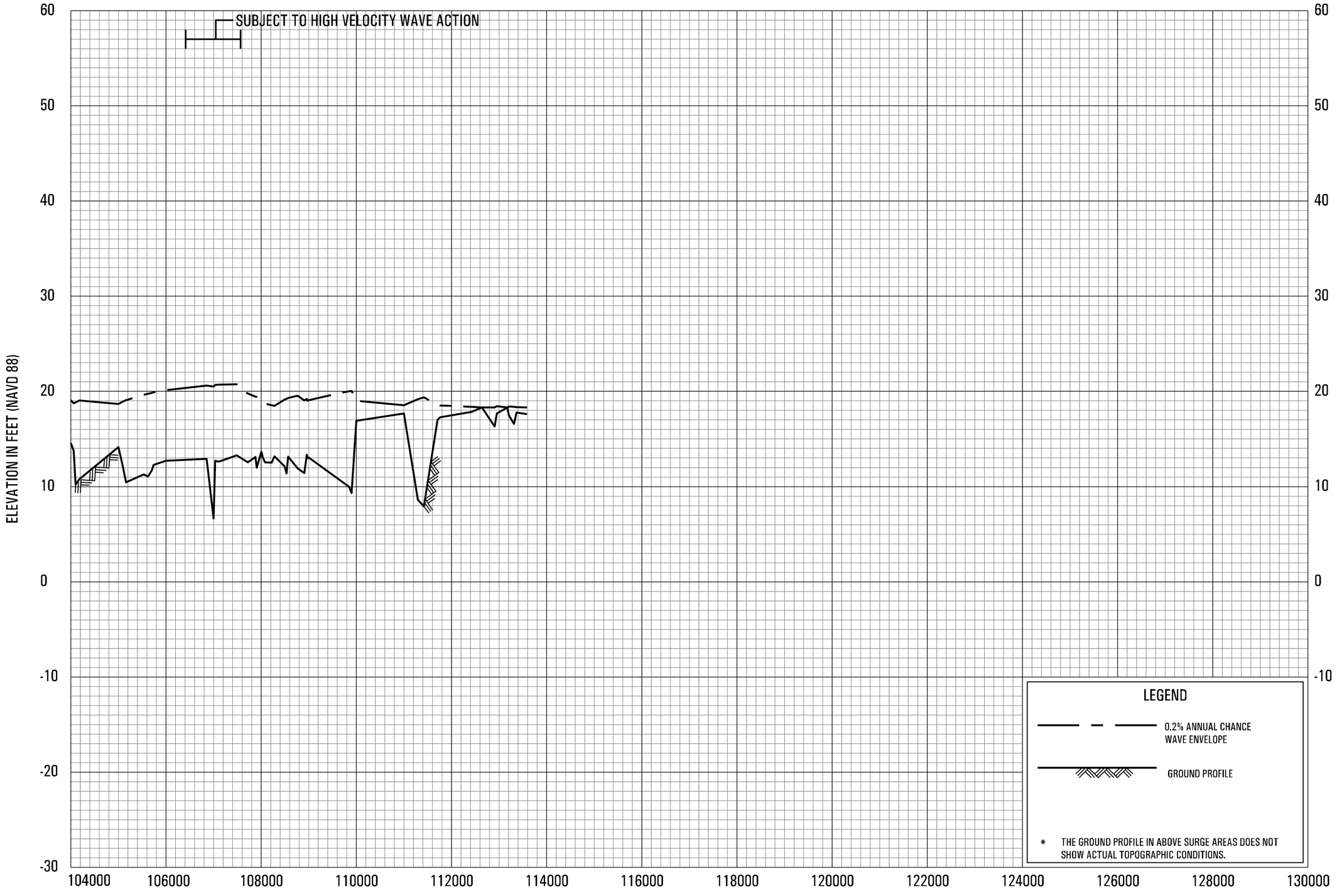
0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX
AND INCORPORATED AREAS

131P



0.2% ANNUAL CHANCE WAVE ENVELOPE

TRANSECT 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALVESTON COUNTY, TX

AND INCORPORATED AREAS

132P