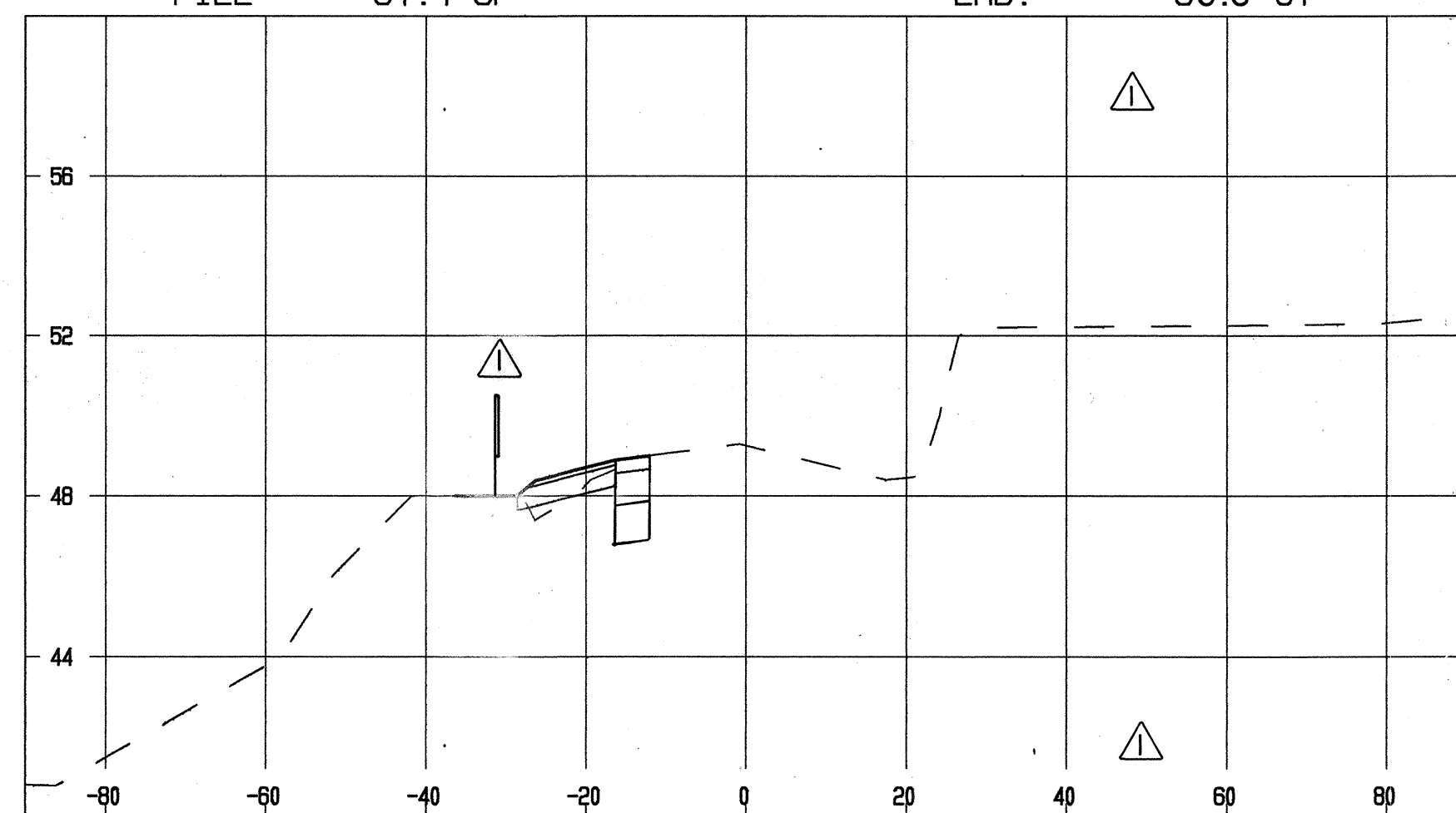
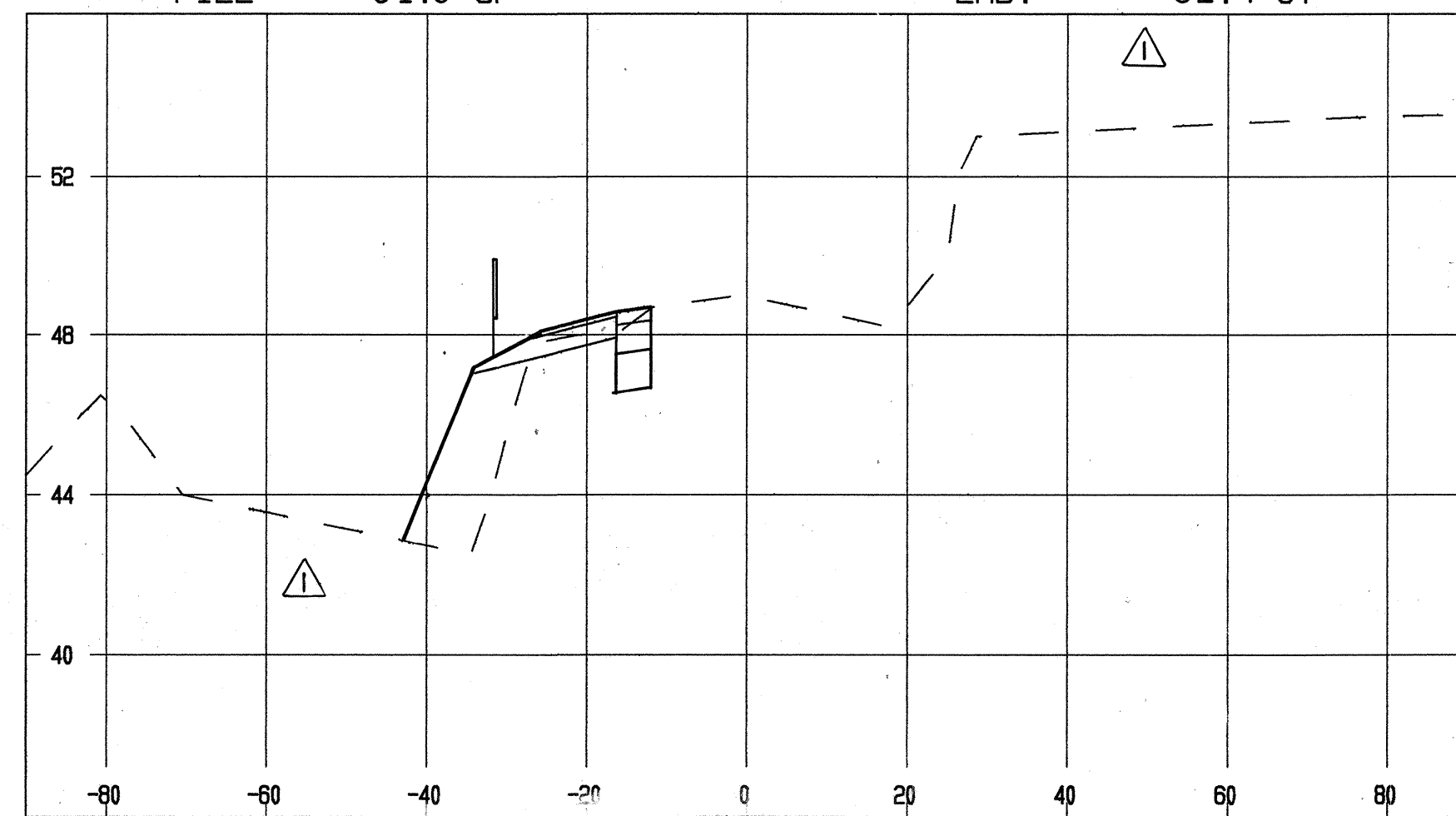
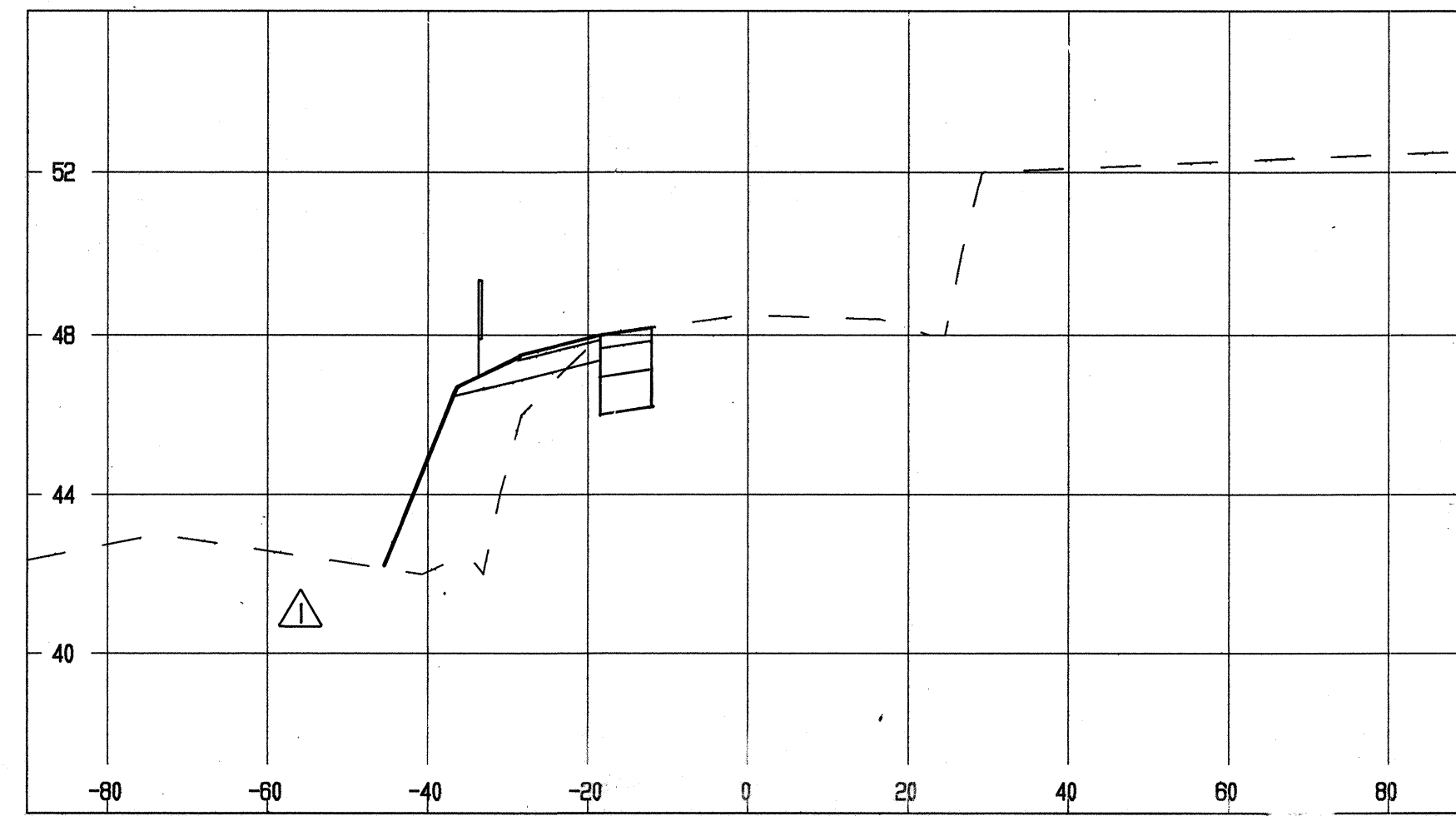
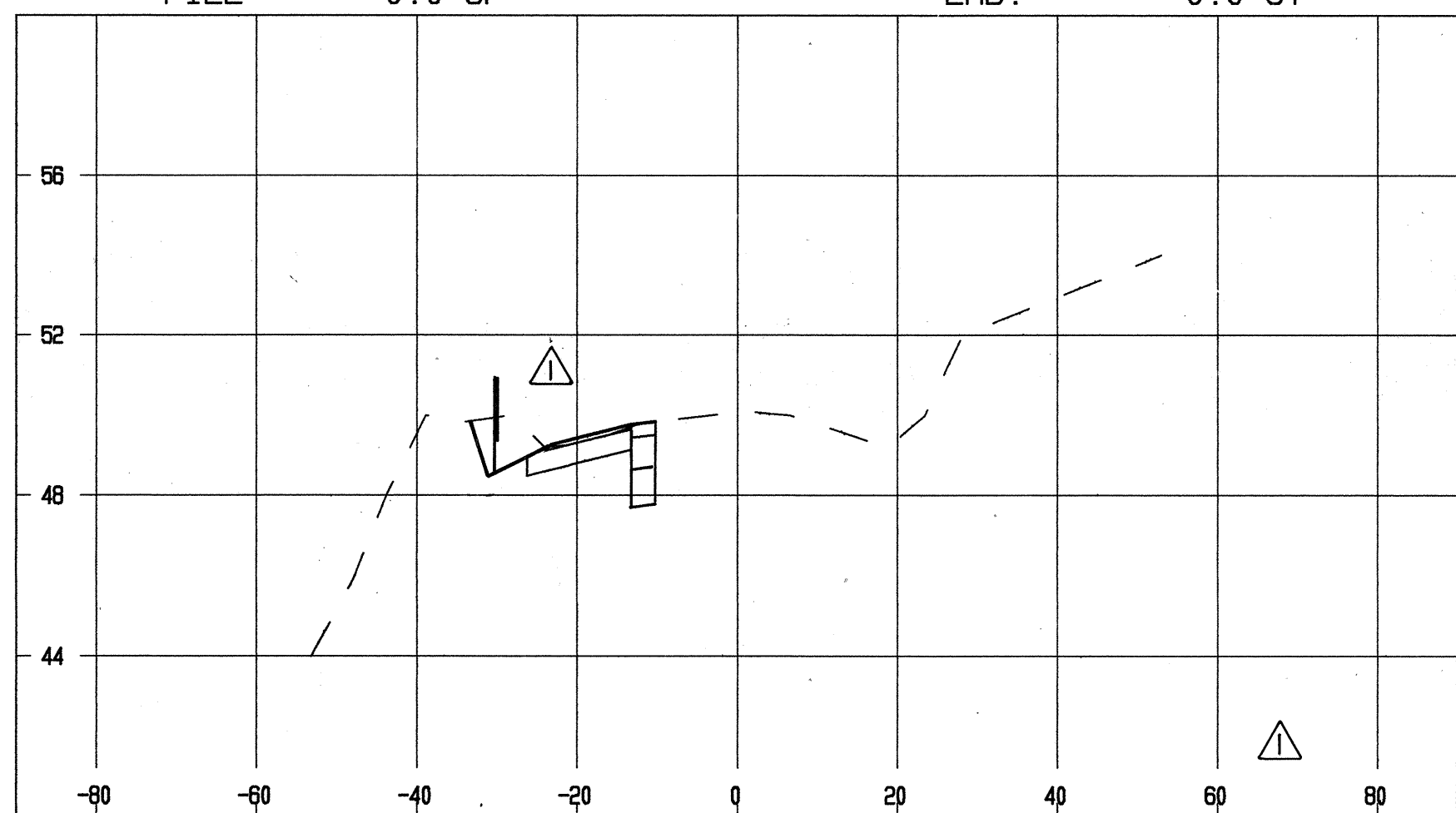
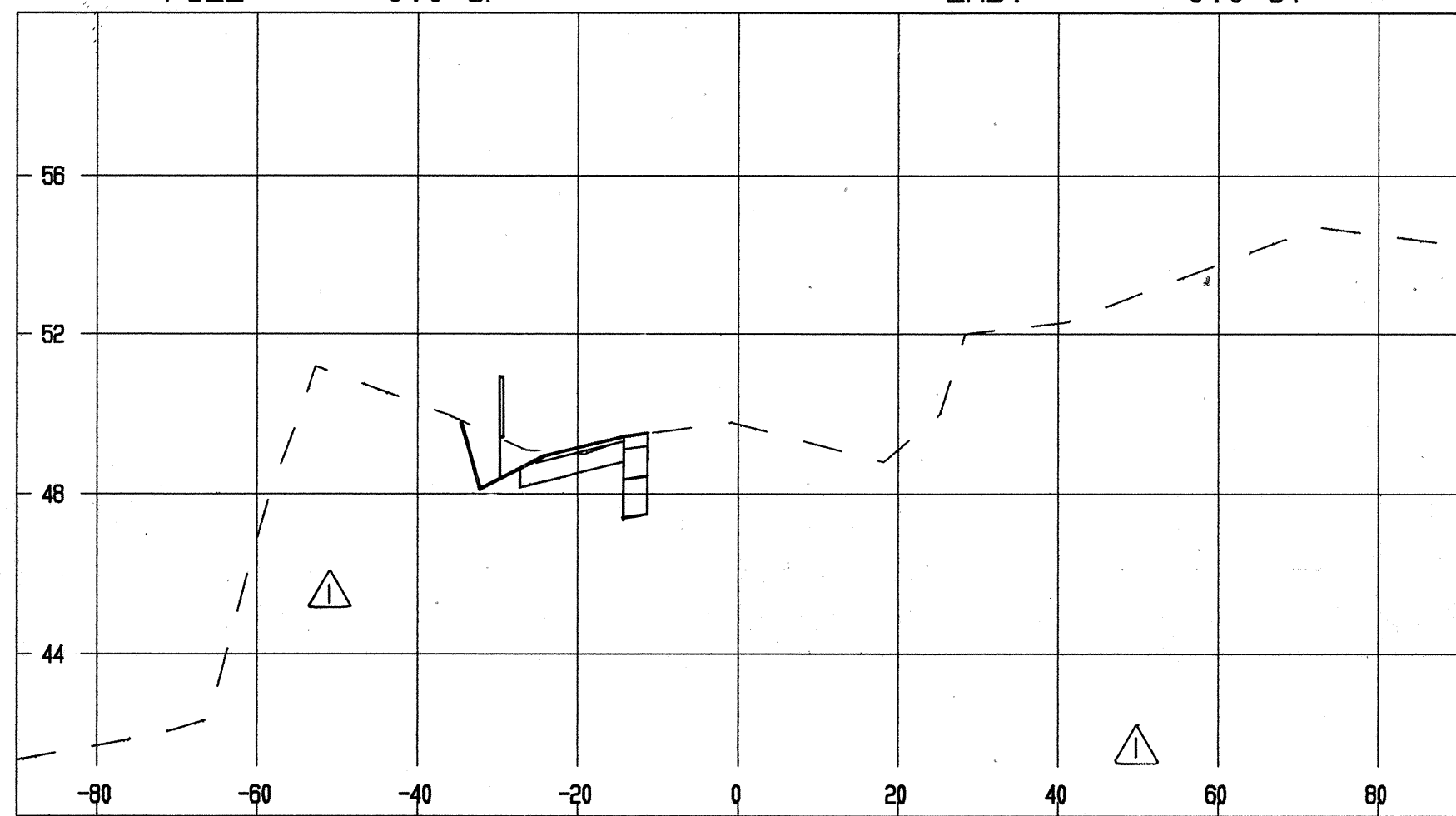
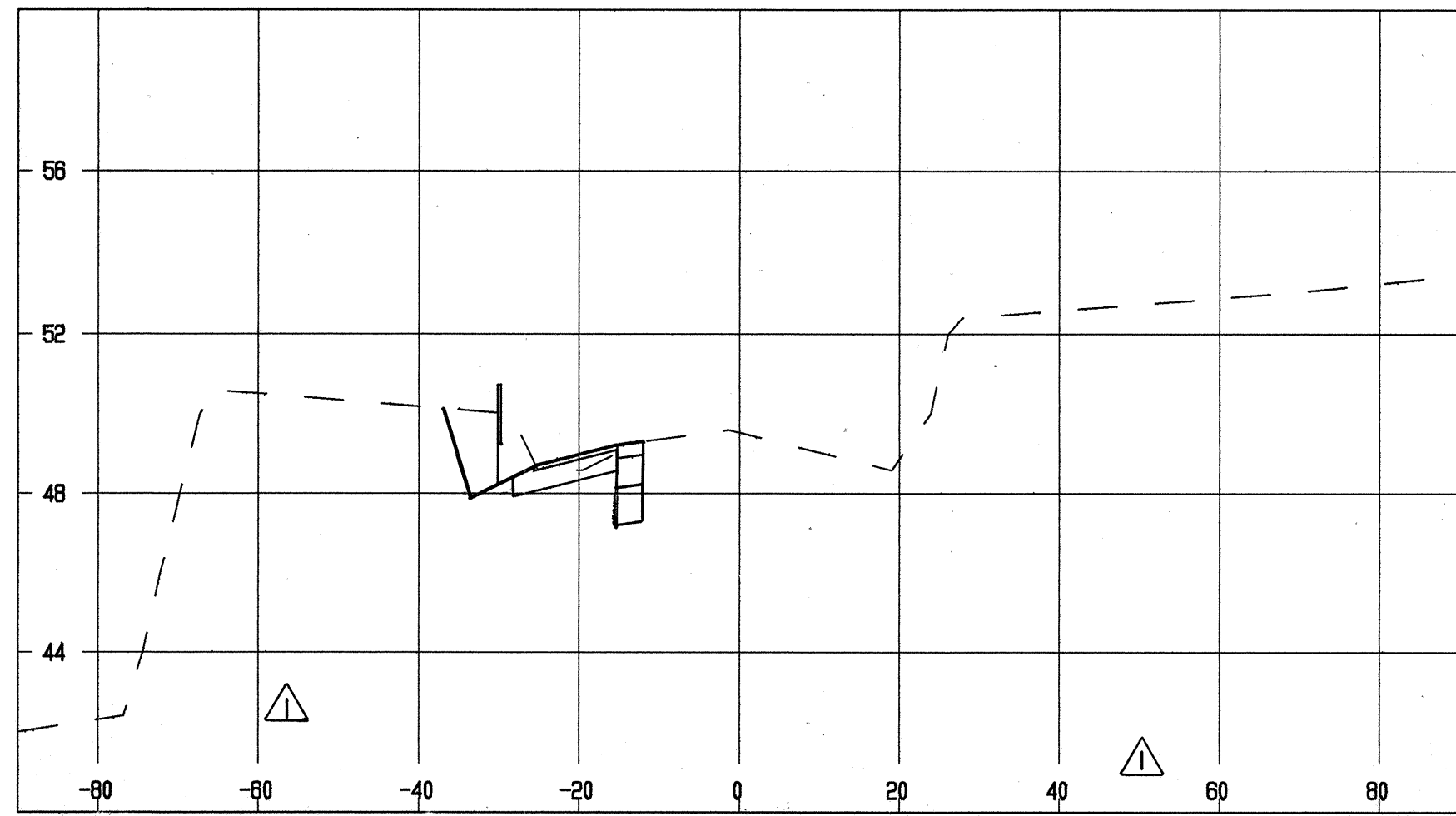
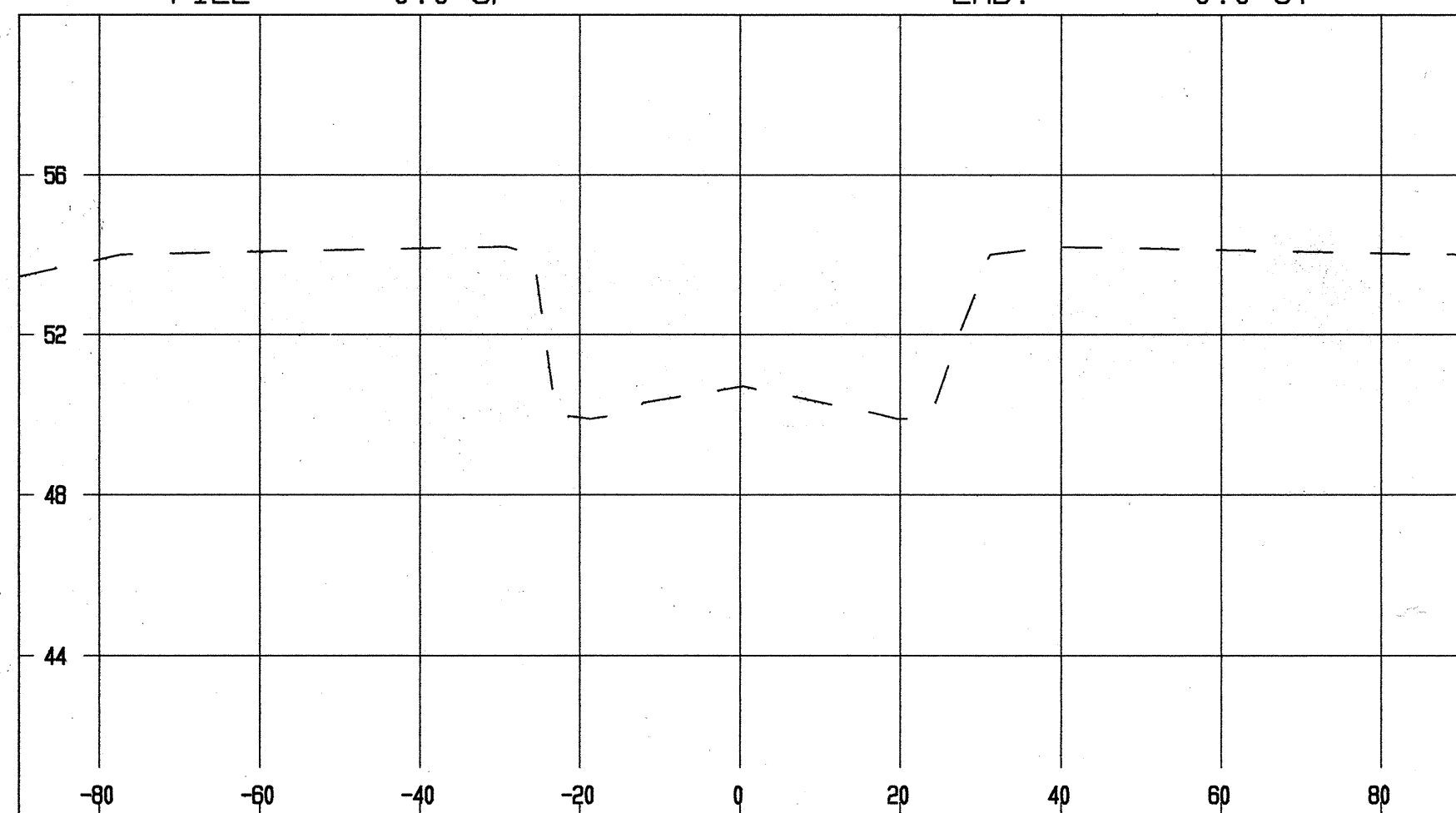
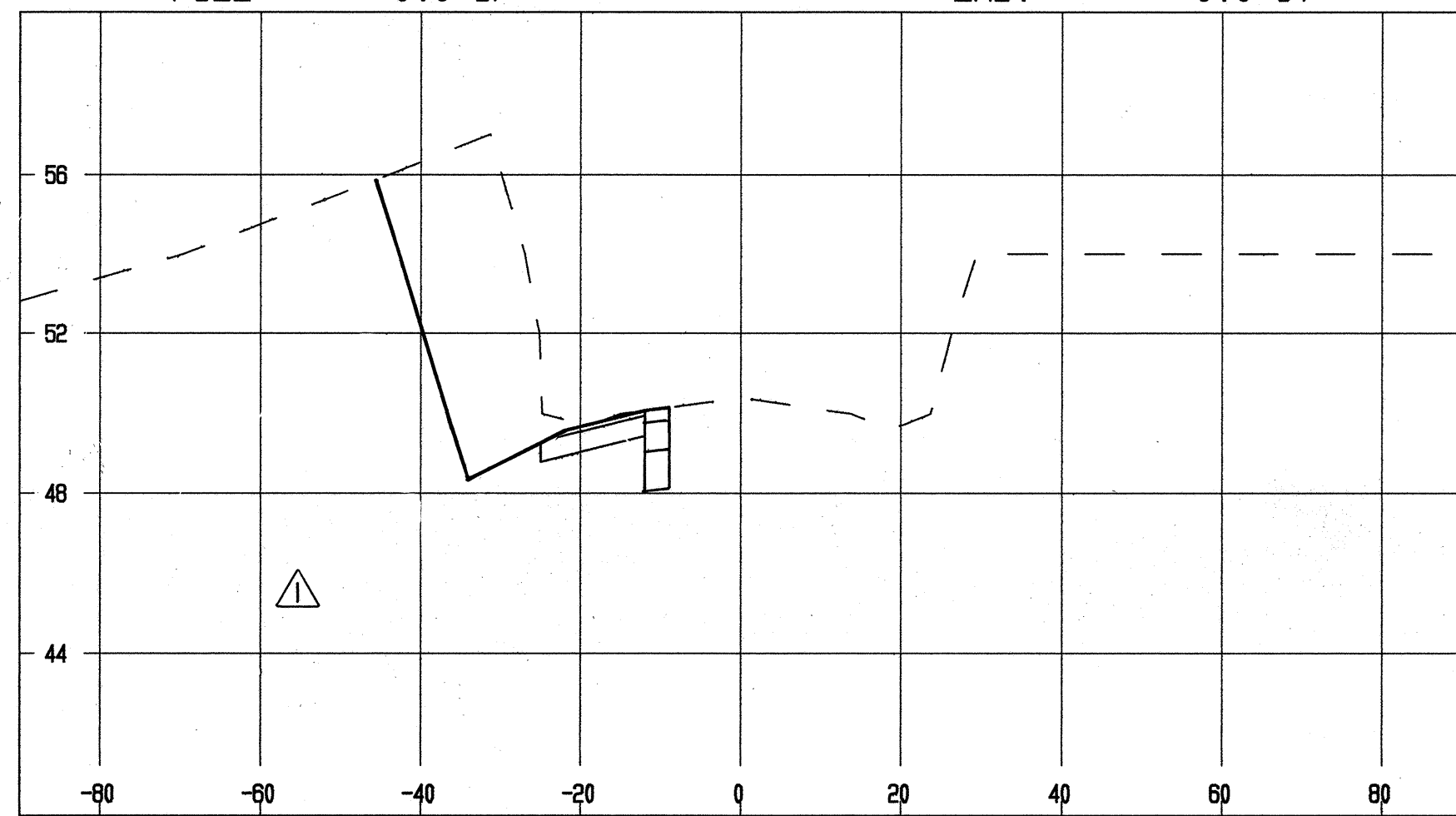
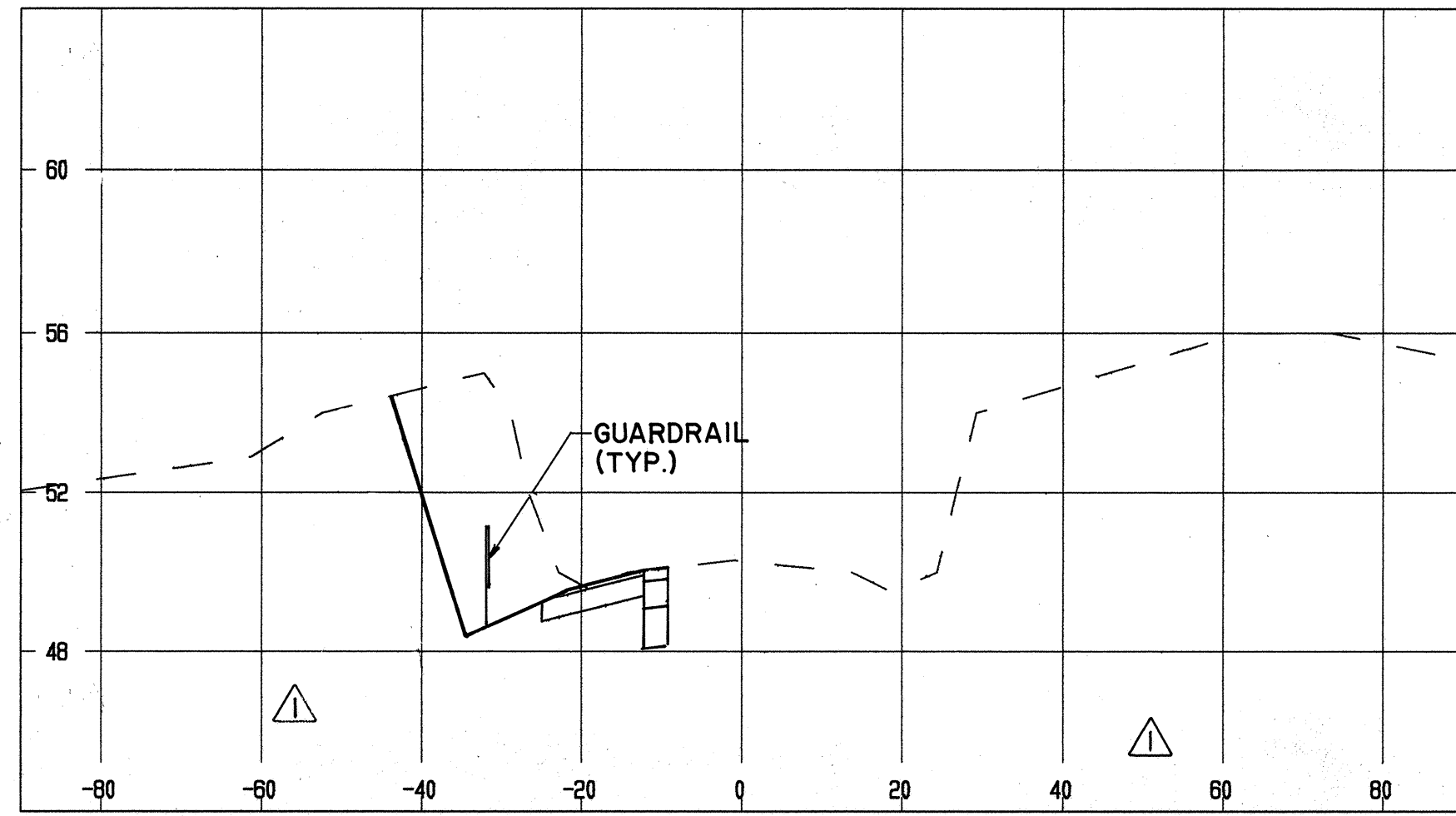
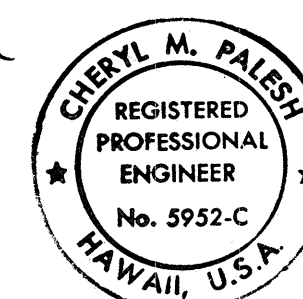




SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7-14-92	REVISE SECTIONS	CP	
2	12/4/91	REVISE SECTIONS	CP	

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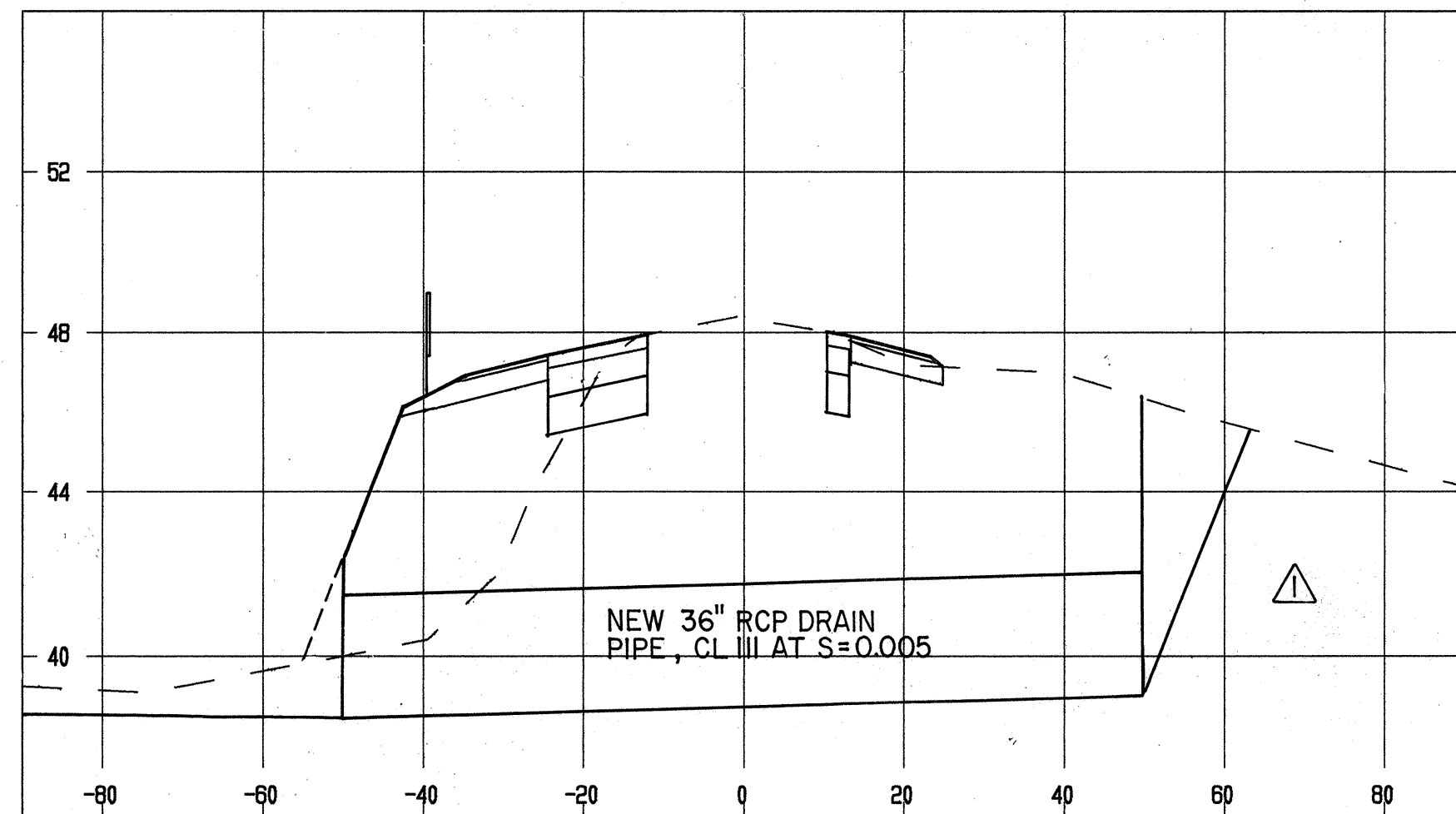
BELT COLLINS & ASSOCIATES
680 Rta Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5351 Telex: BELTH 7438474 Fax: (808) 538-7819

Client: **HOUSING FINANCE AND DEVELOPMENT CORPORATION**
STATE OF HAWAII

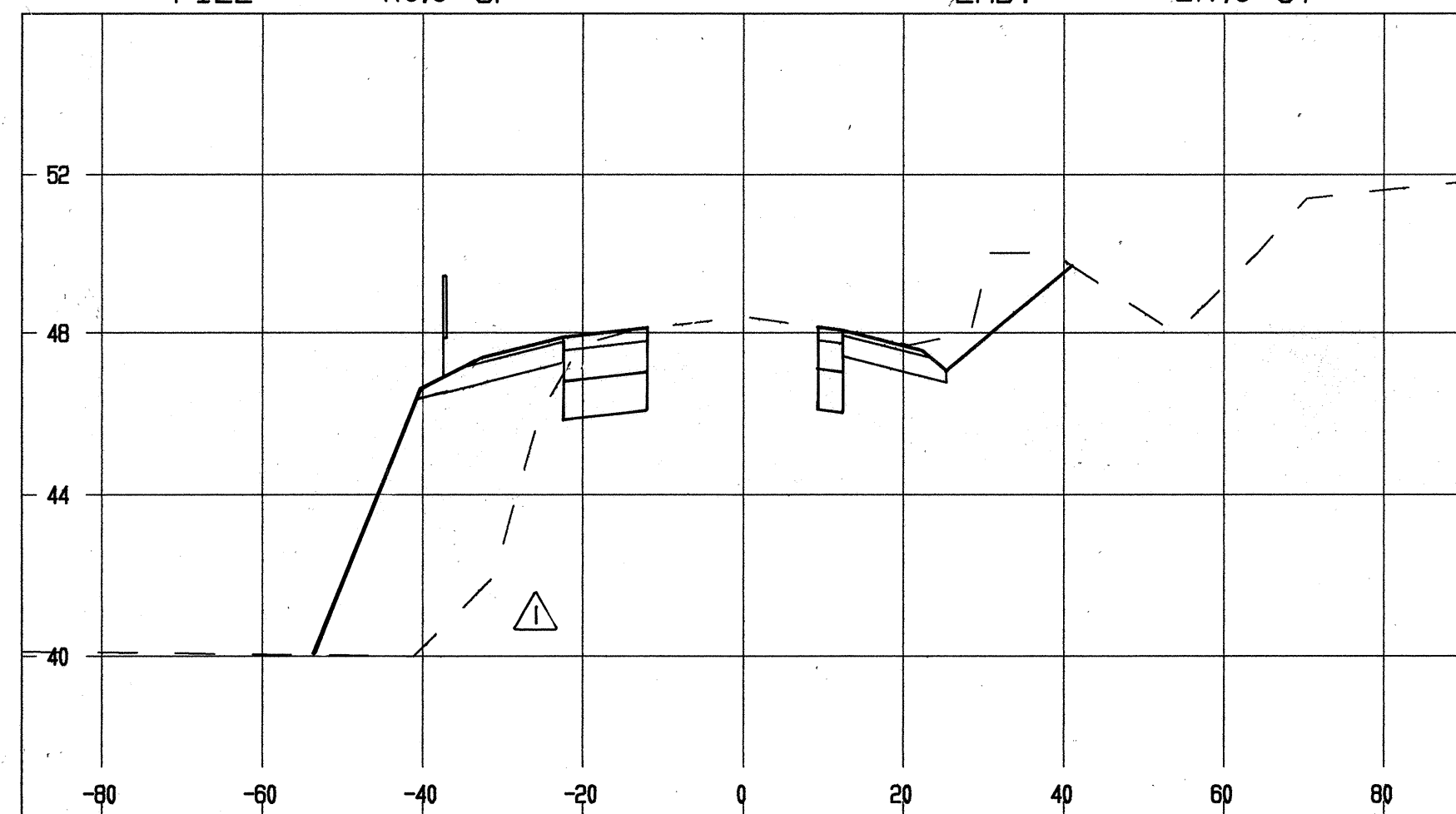
VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 106+50 TO STA. 110+00

Designed by: **CP, PK** Date: _____
Drawn by: **PK** Proj. no.: **(BCA)841.0104**

Approved: _____
Date: _____



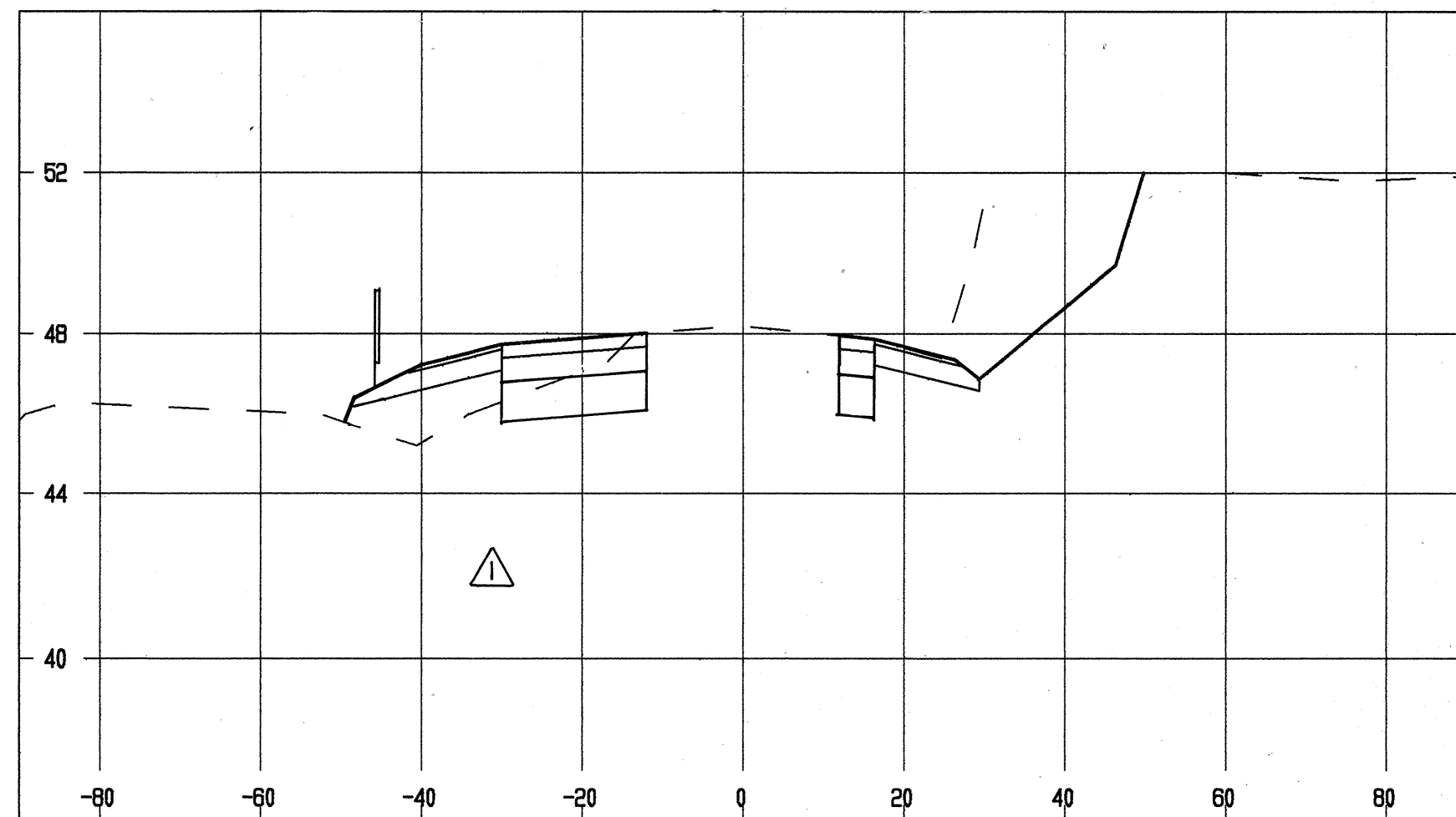
CUT = 23.6 SF
FILL = 119.9 SF
111+50
EXC. = 69.3 CY
EMB. = 217.5 CY



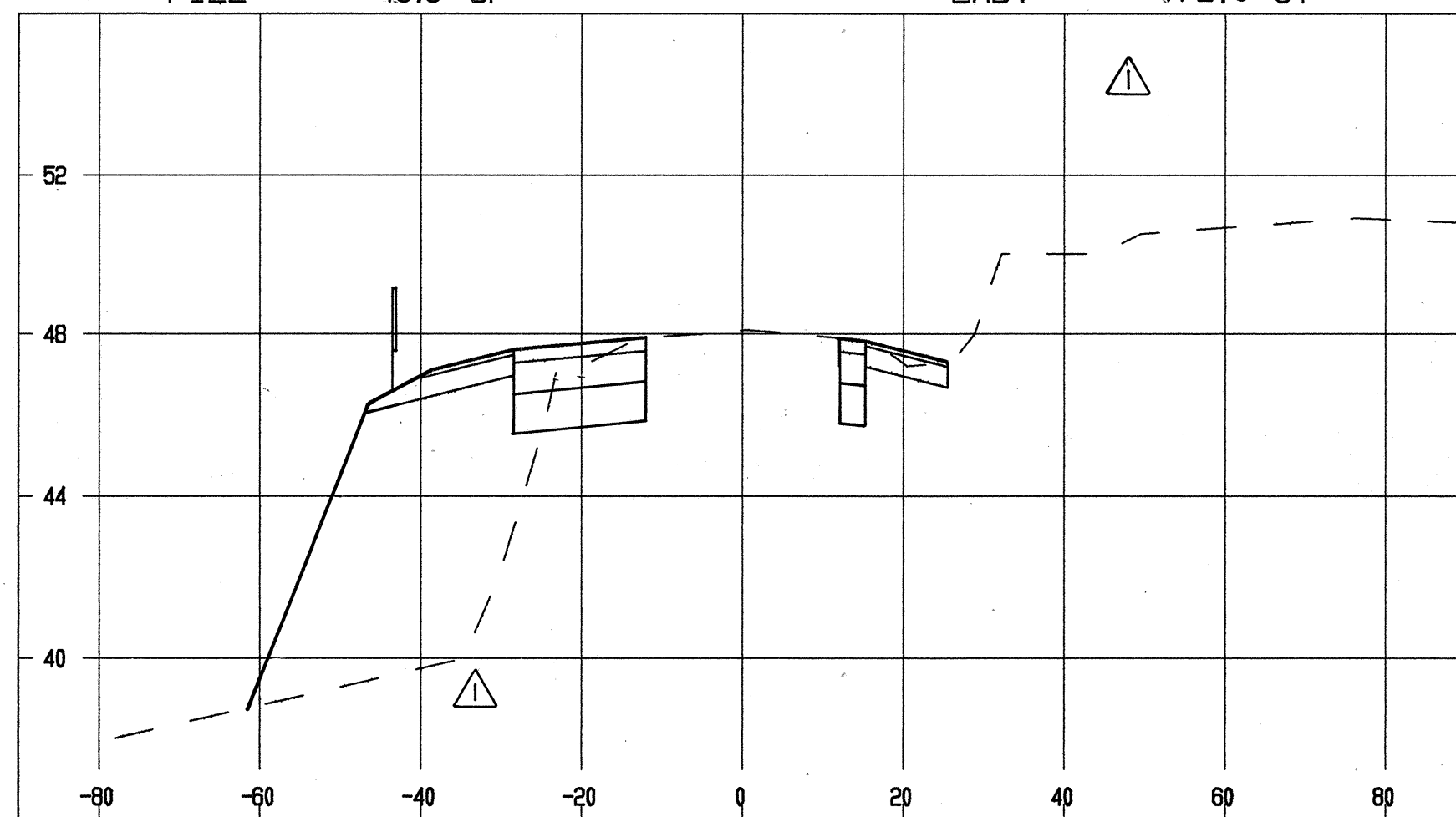
CUT = 51.2 SF
FILL = 115.0 SF
111+00
EXC. = 61.1 CY
EMB. = 178.1 CY



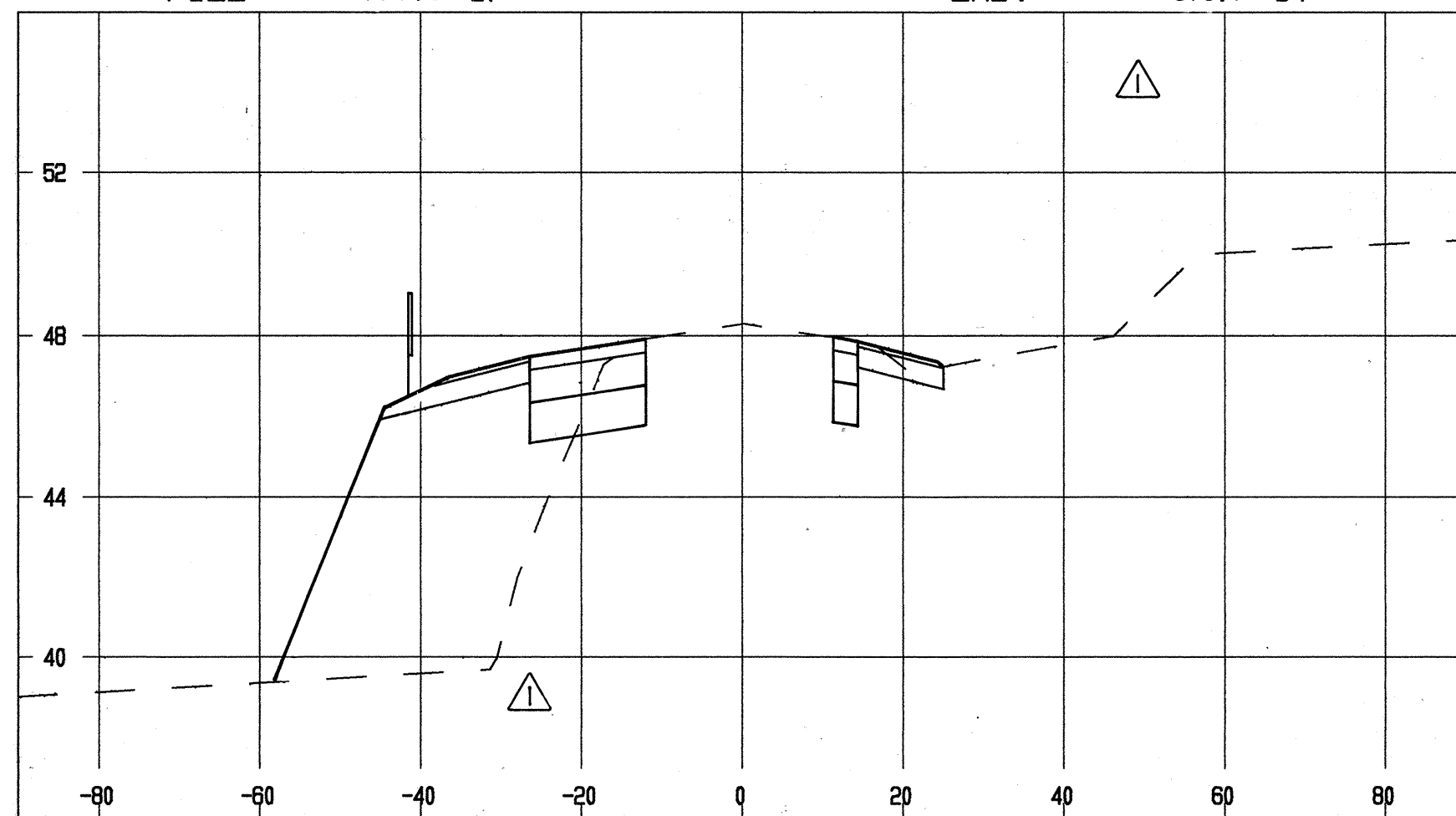
CUT = 14.8 SF
FILL = 77.3 SF
110+50
EXC. = 26.3 CY
EMB. = 119.4 CY



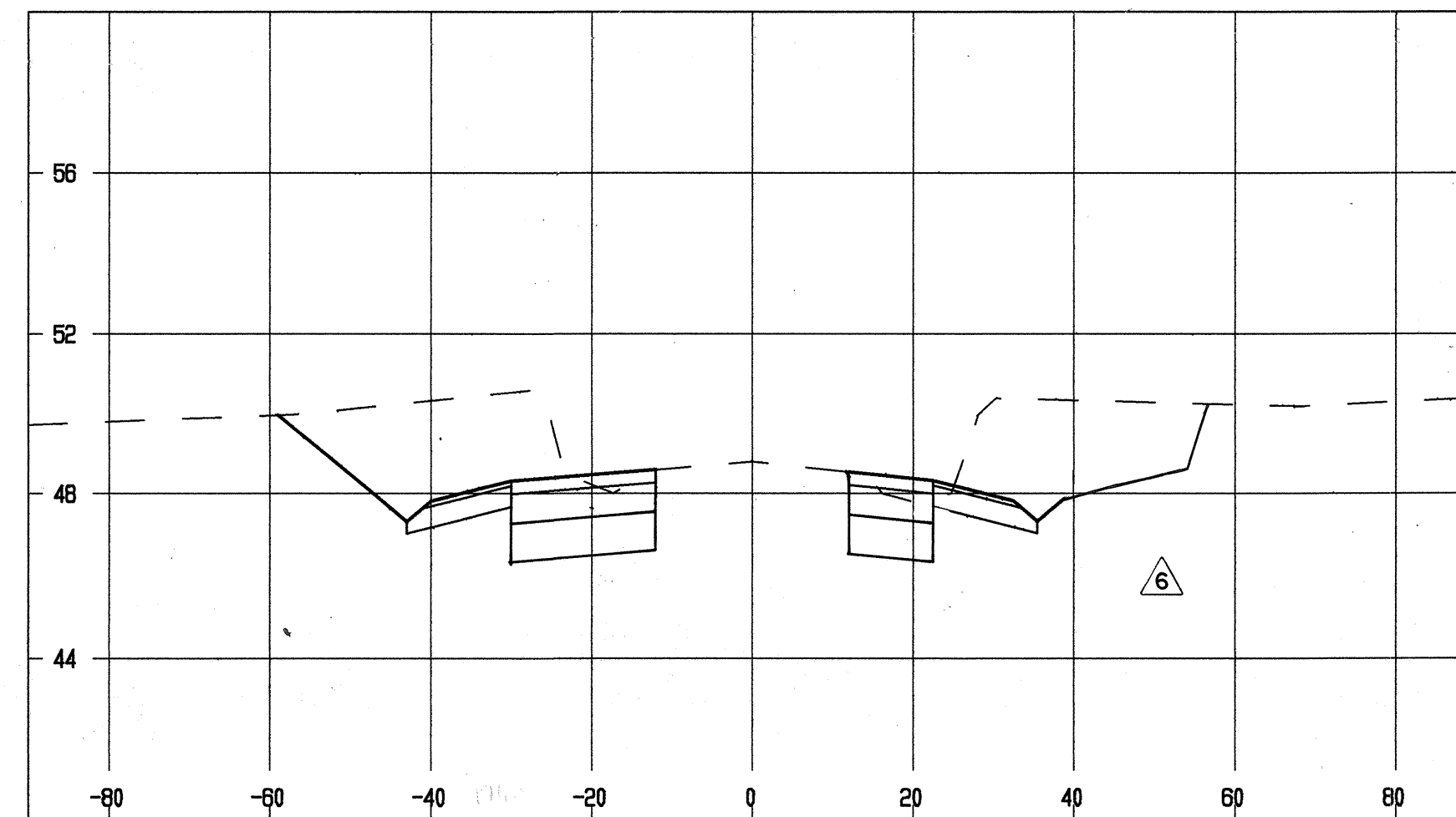
CUT = 109.6 SF
FILL = 18.8 SF
113+00
EXC. = 131.1 CY
EMB. = 172.6 CY



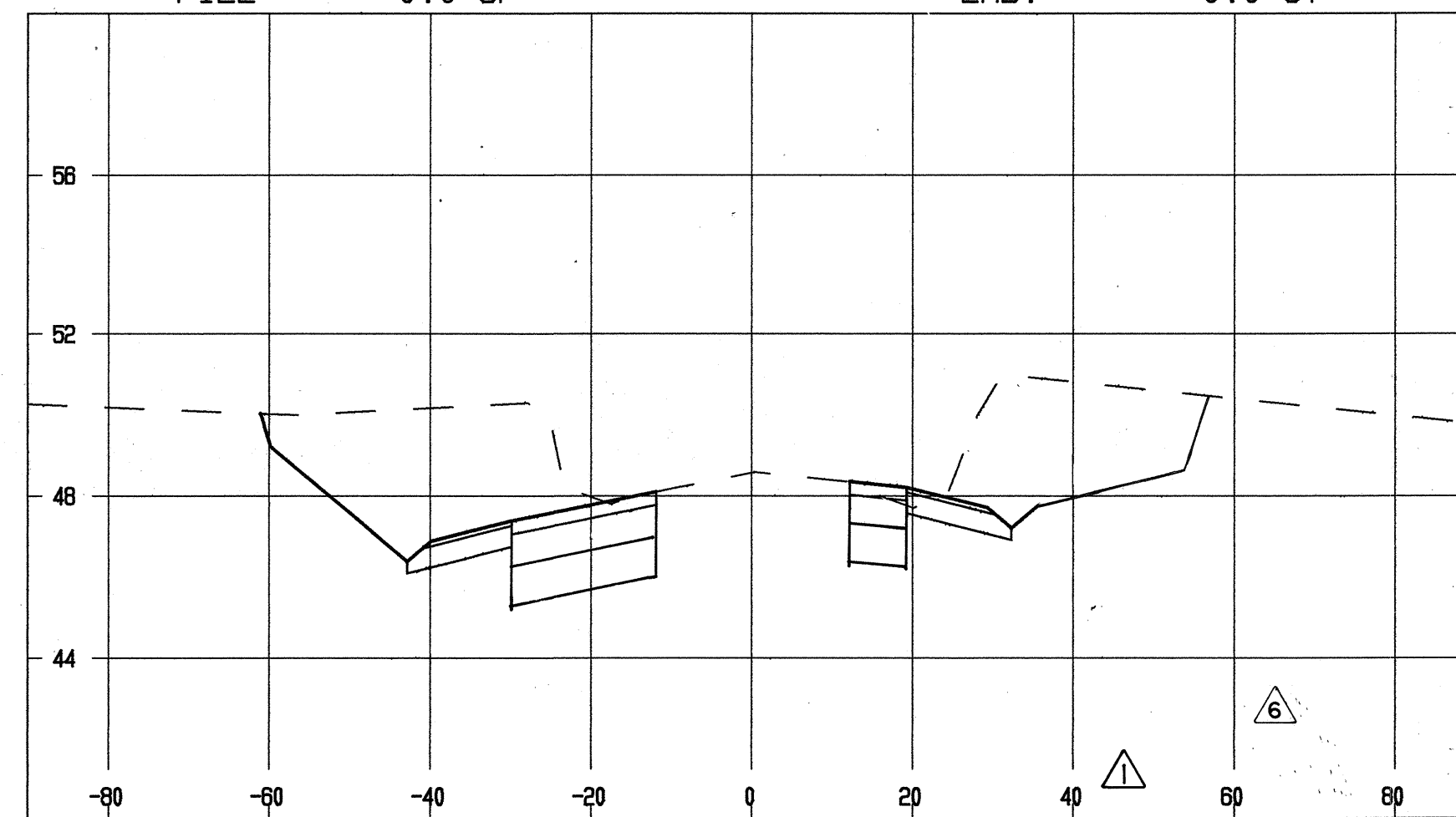
CUT = 32.0 SF
FILL = 167.6 SF
112+50
EXC. = 52.2 CY
EMB. = 313.7 CY



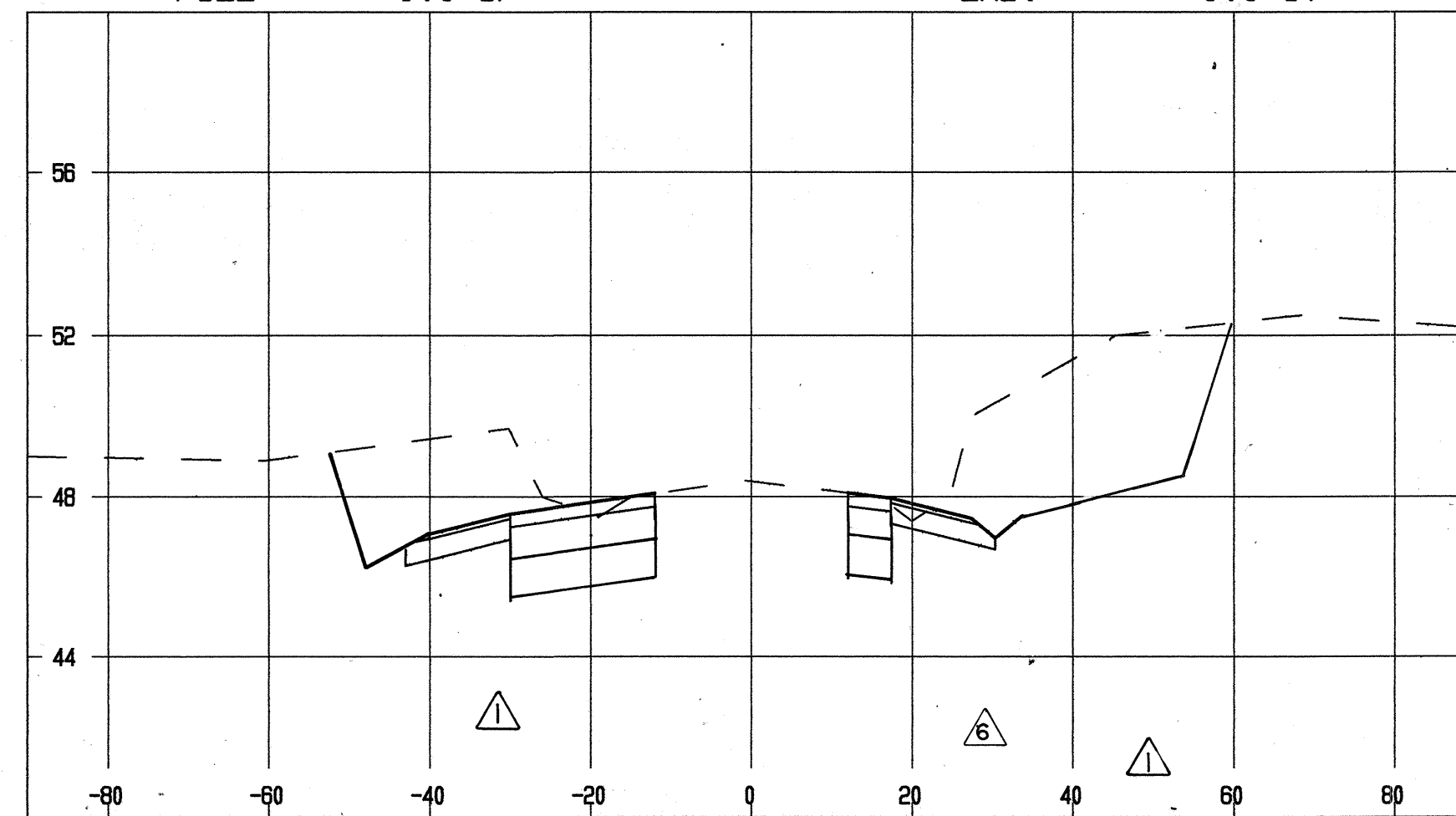
CUT = 24.4 SF
FILL = 171.2 SF
112+00
EXC. = 44.4 CY
EMB. = 269.5 CY



CUT = 197.6 SF
FILL = 0.0 SF
114+50
EXC. = 399.1 CY
EMB. = 0.0 CY



CUT = 233.4 SF
FILL = 0.0 SF
114+00
EXC. = 421.7 CY
EMB. = 0.0 CY

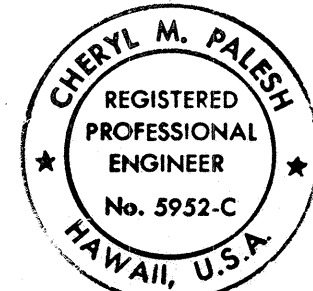


CUT = 222.0 SF
FILL = 0.0 SF
113+50
EXC. = 307.0 CY
EMB. = 17.4 CY

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
6	7/23/93	REVISE SECTIONS	AK	
5	7-14-92	REVISE SECTIONS	CP	
4	12/4/91	REVISE SECTIONS	CP	

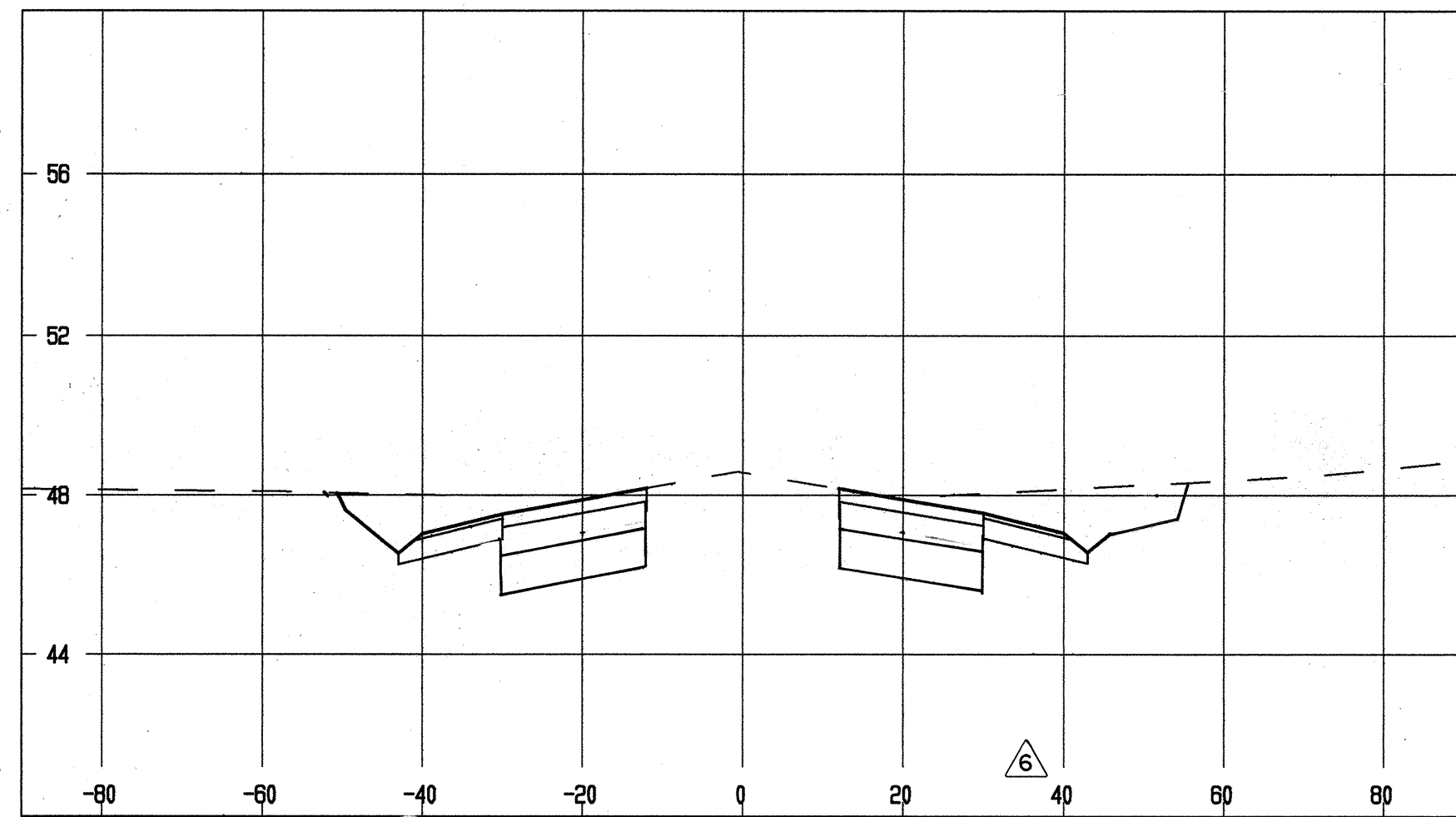
THIS WORK WAS PREPARED BY ME
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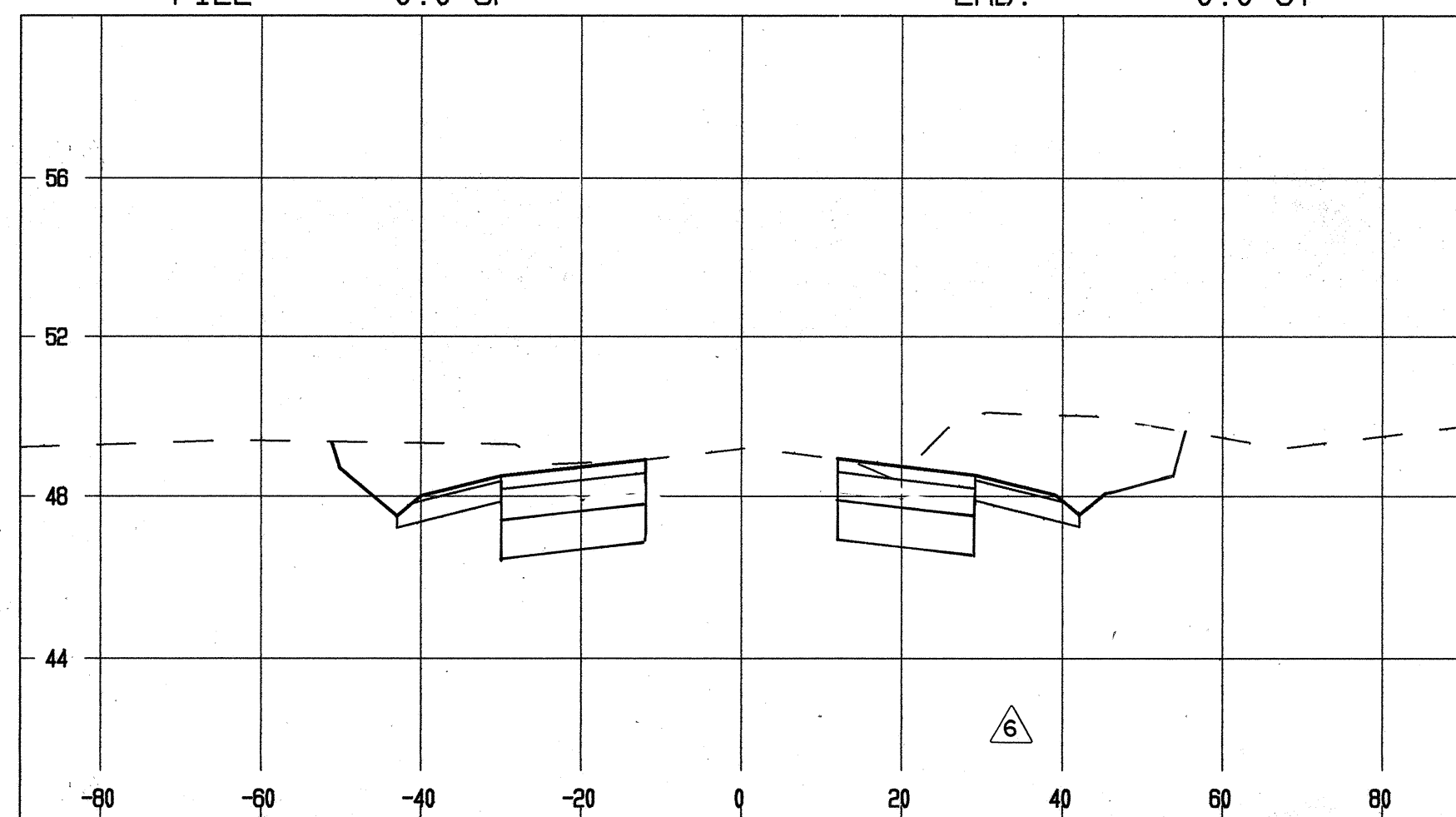
BELT COLLINS & ASSOCIATES
888 Ala Moana Boulevard Suite 208 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7430474 Fax: (808) 538-7819

Client:
**HOUSING FINANCE AND
DEVELOPMENT CORPORATION**
STATE OF HAWAII

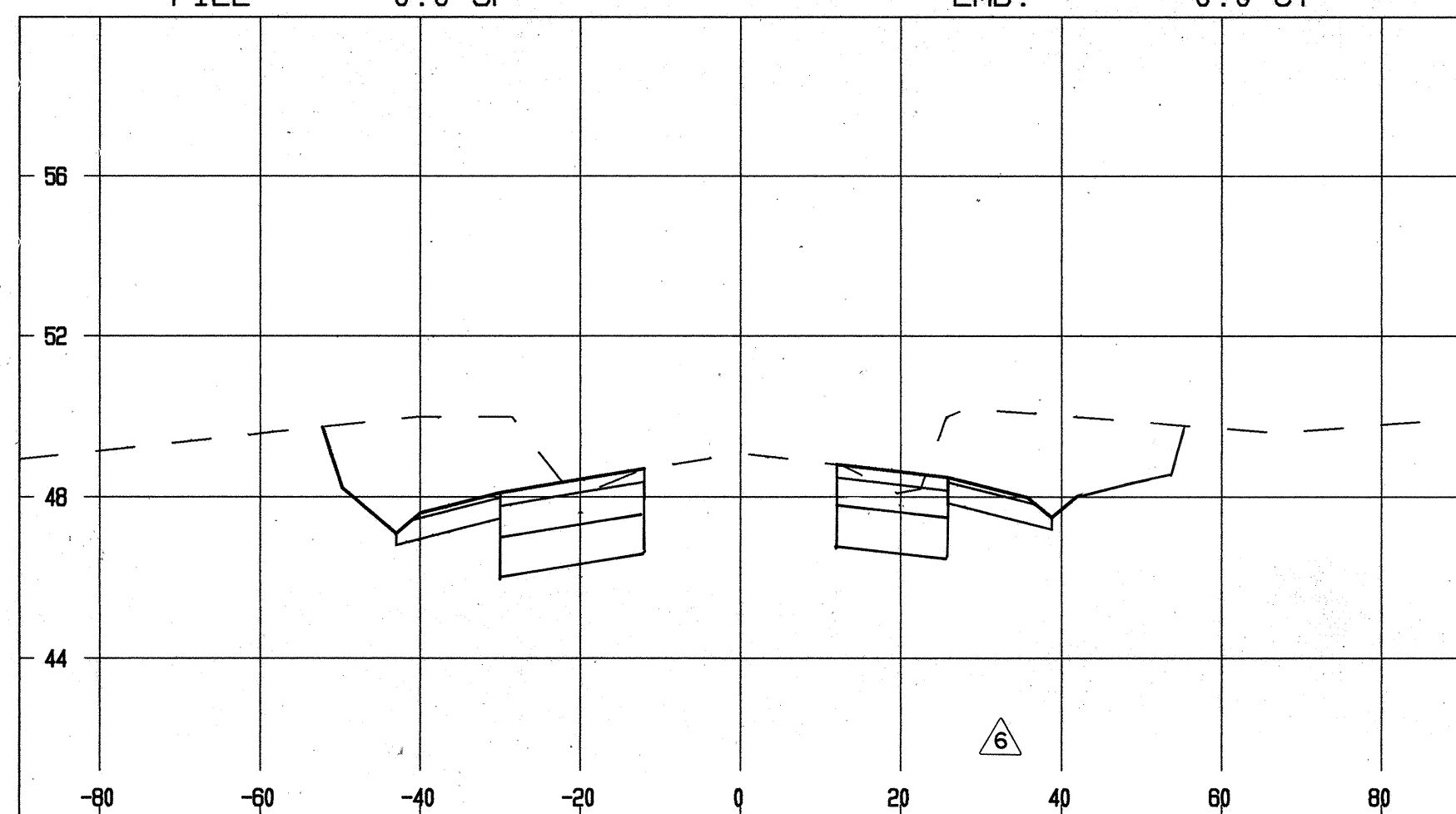
VILLAGES OF LA'I OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 110+50 TO STA. 114+50
Designed by: CP, AK Date: _____
Drawn by: AK Date: _____
Approved: _____
Date: _____
Date: _____



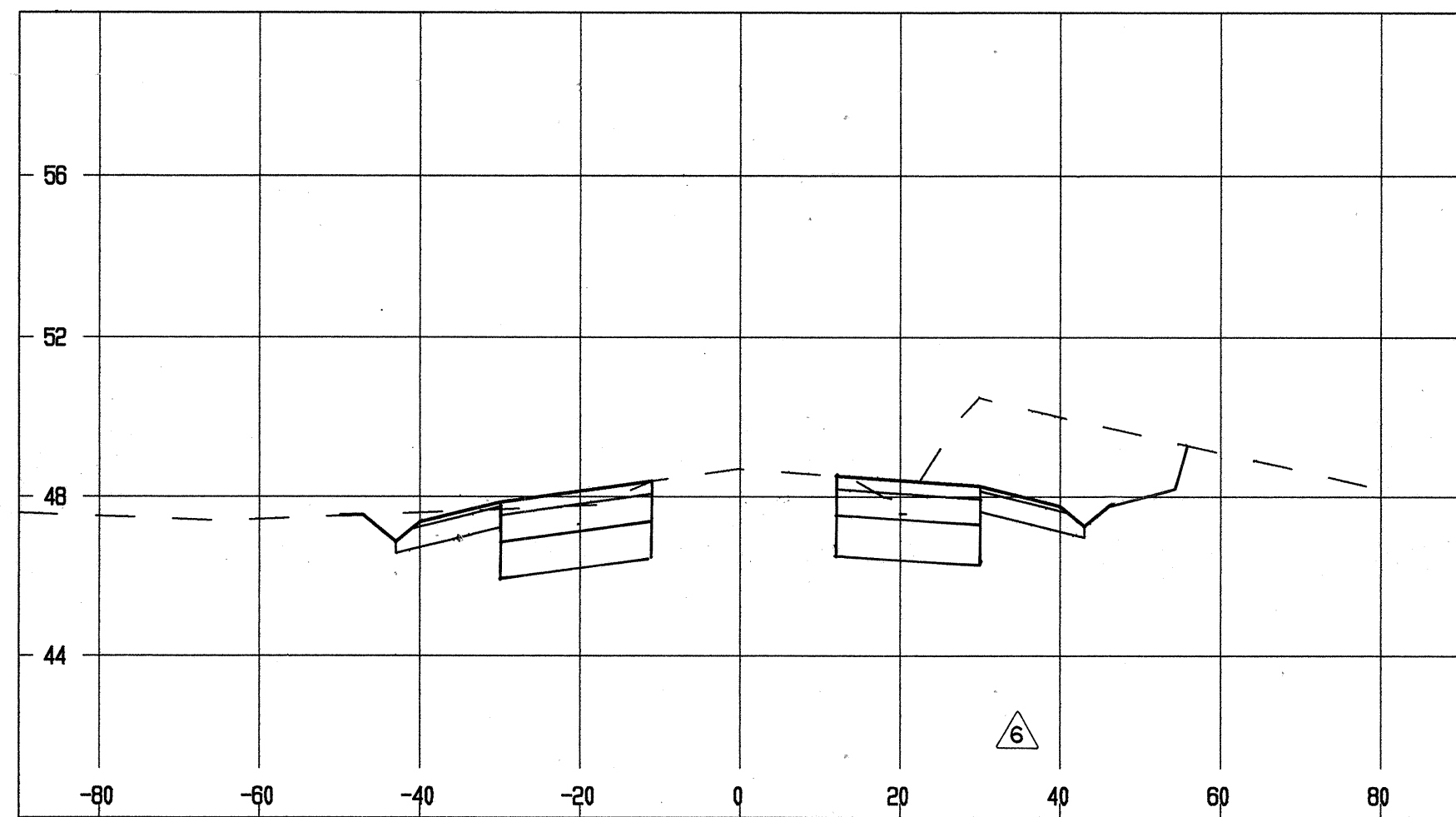
CUT = 125.6 SF
FILL = 0.0 SF
116+00
EXC. = 271.4 CY
EMB. = 0.0 CY



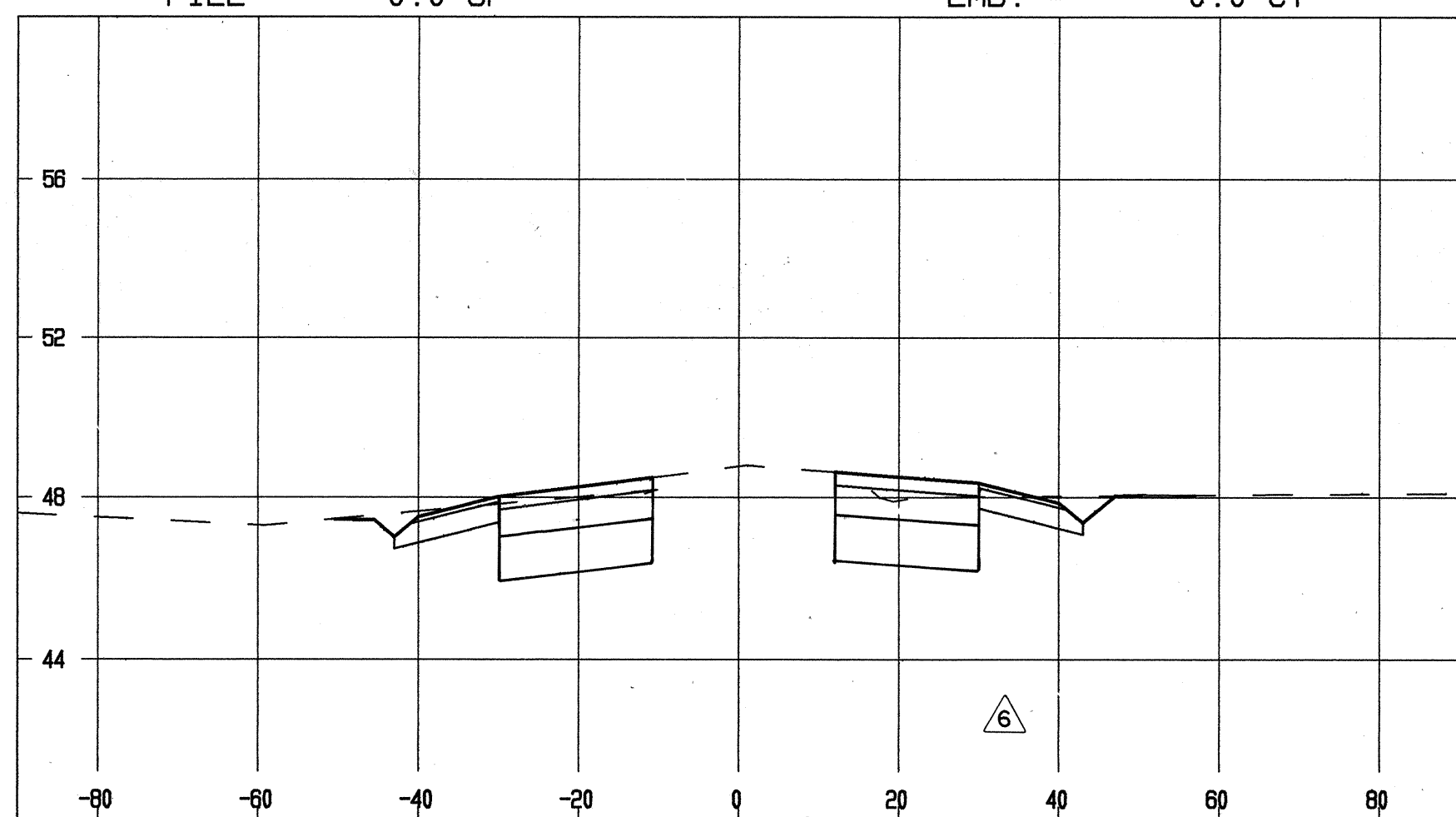
CUT = 167.5 SF
FILL = 0.0 SF
115+50
EXC. = 322.5 CY
EMB. = 0.0 CY



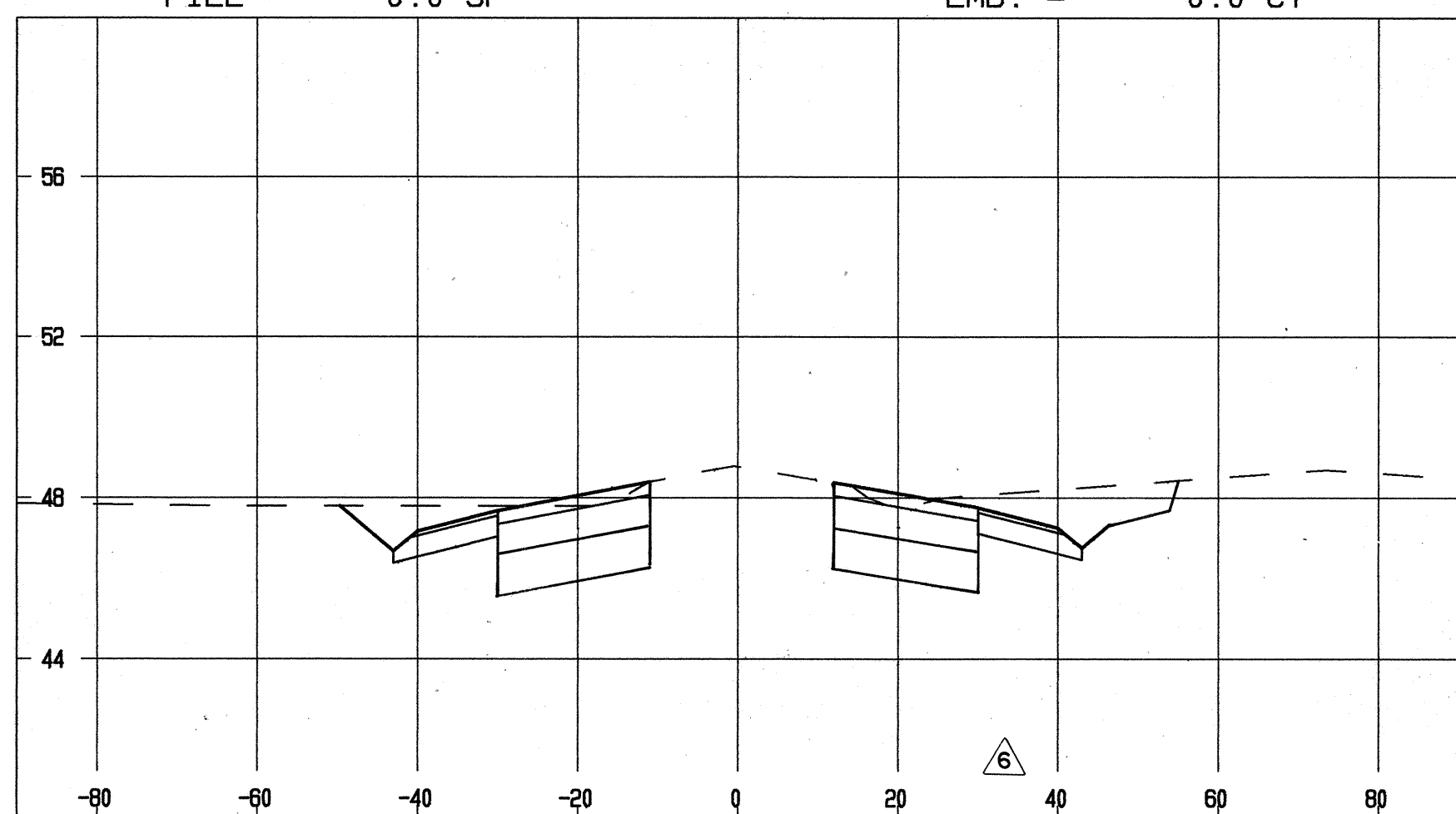
CUT = 180.8 SF
FILL = 0.0 SF
115+00
EXC. = 350.4 CY
EMB. = 0.0 CY



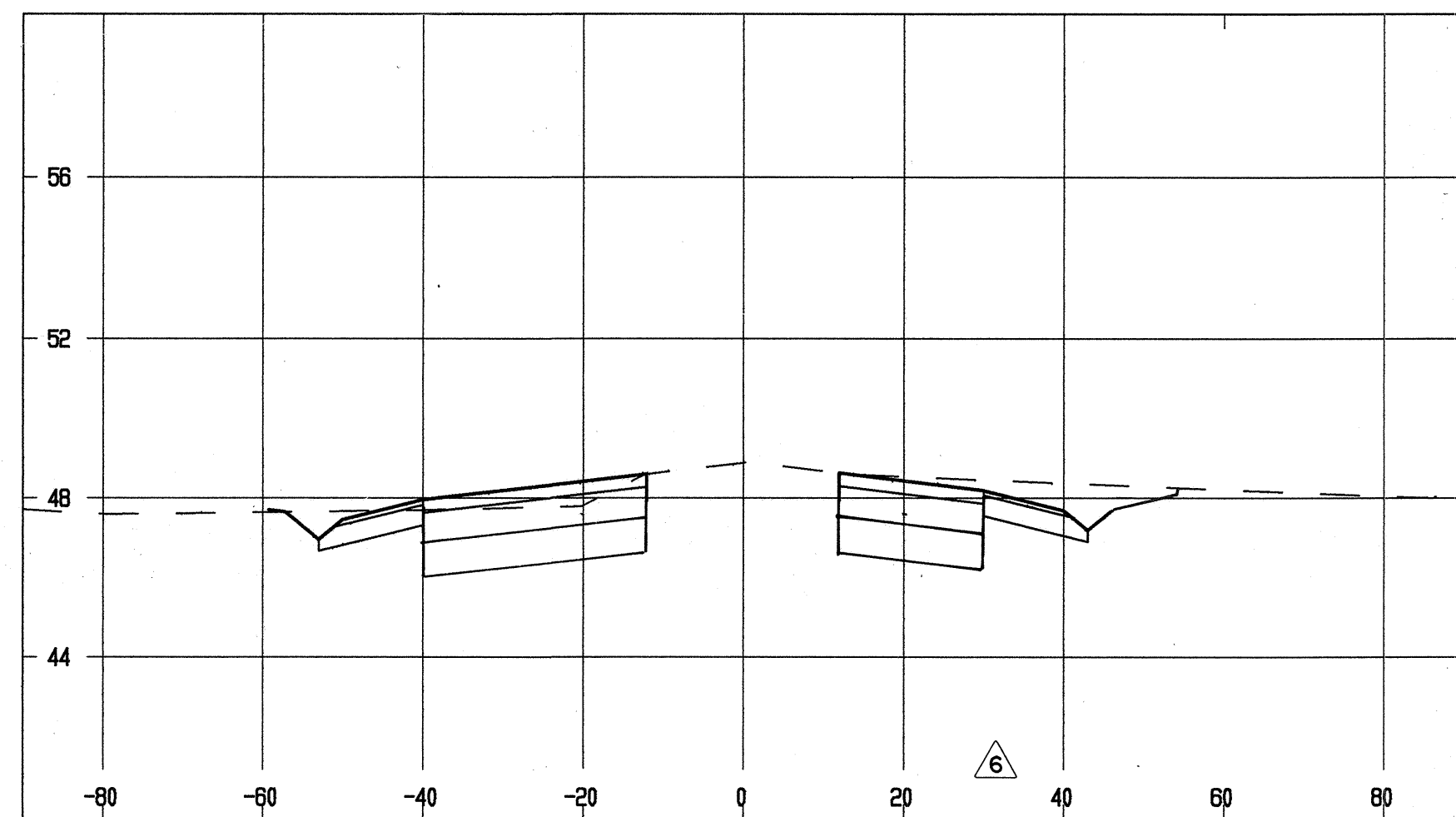
CUT = 146.2 SF
FILL = 0.0 SF
117+50
EXC. = 208.9 CY
EMB. = 0.0 CY



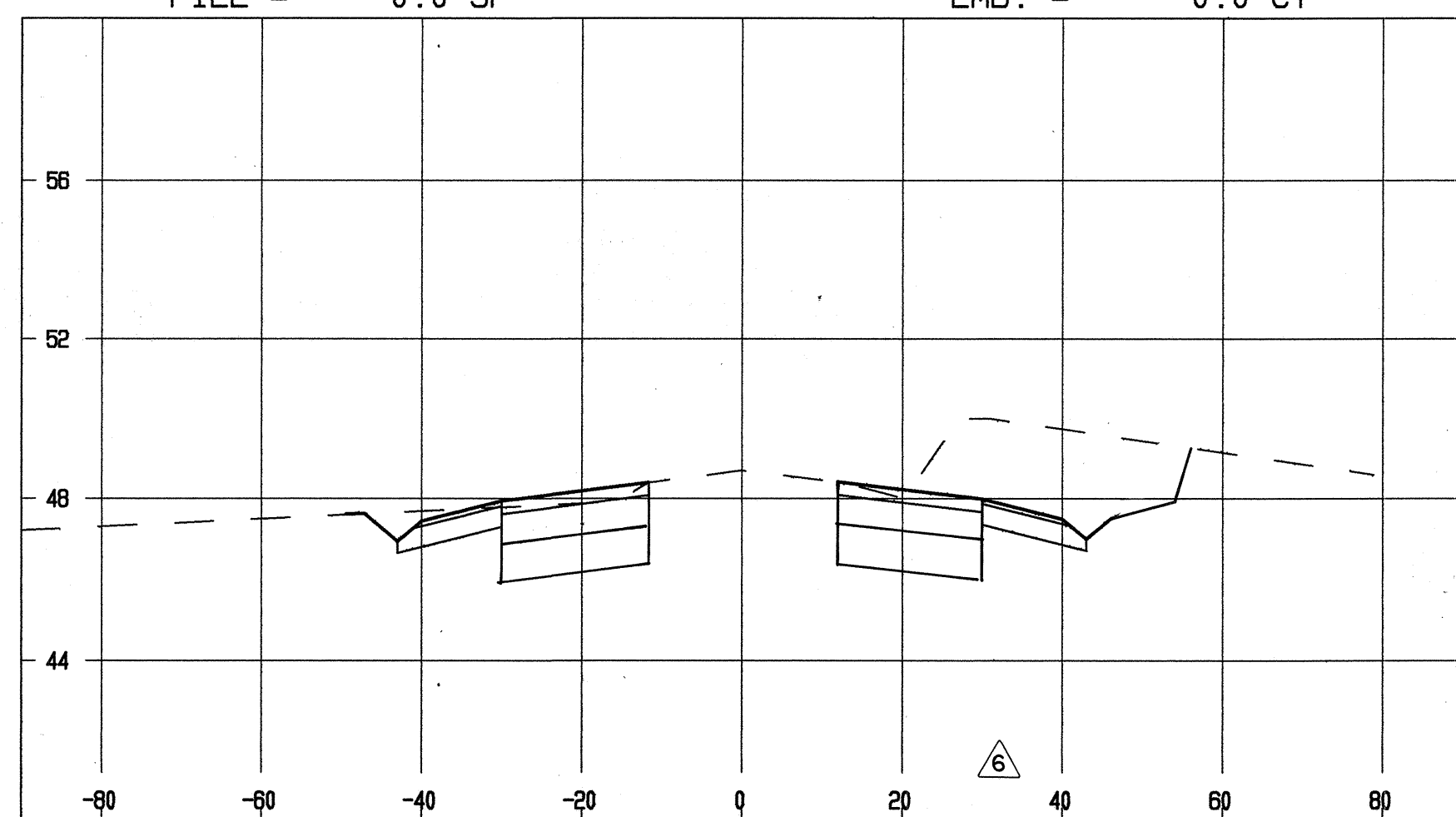
CUT = 79.4 SF
FILL = 0.0 SF
117+00
EXC. = 178.0 CY
EMB. = 0.0 CY



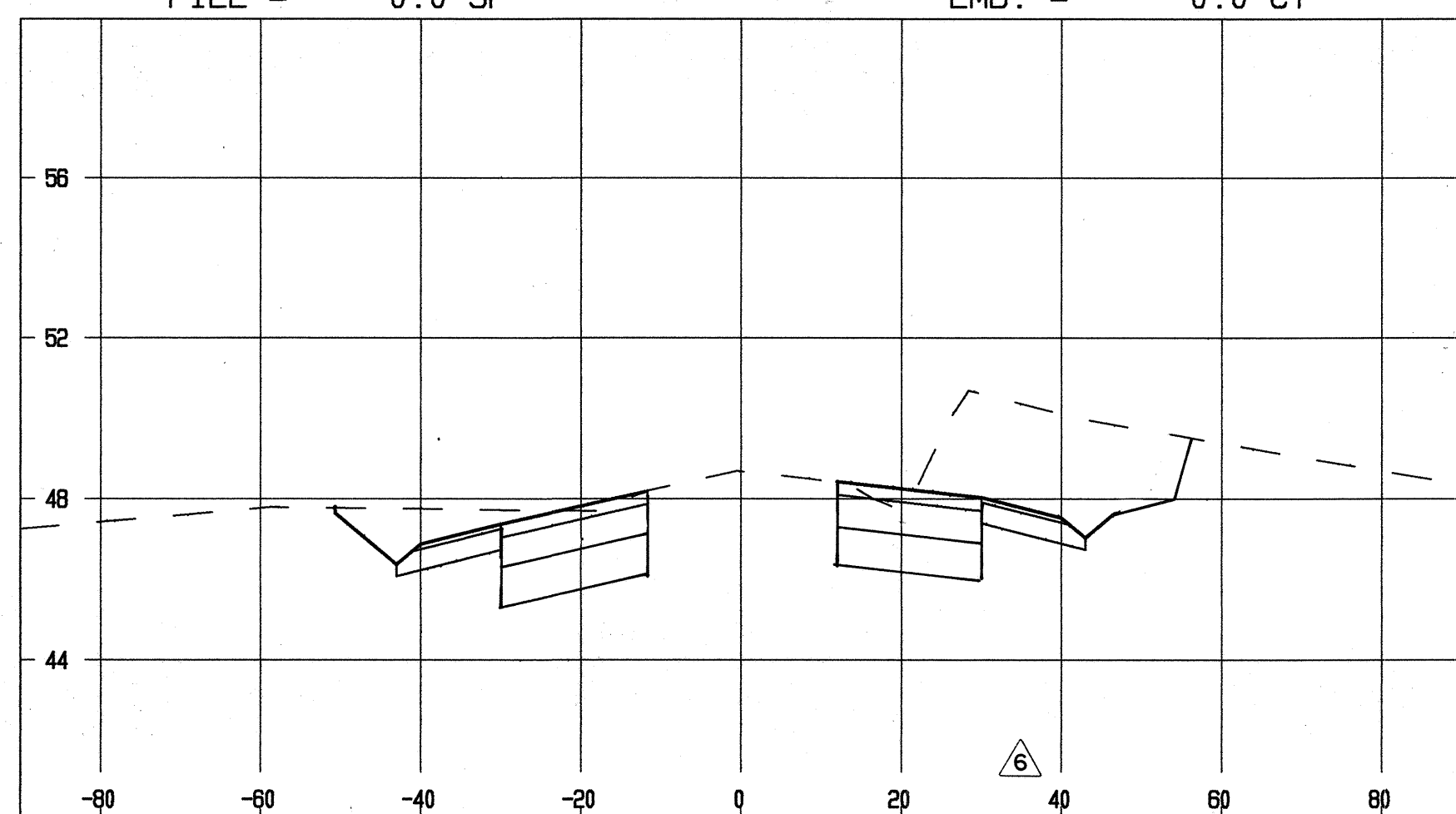
CUT = 112.8 SF
FILL = 0.0 SF
116+50
EXC. = 220.7 CY
EMB. = 0.0 CY



CUT = 110.3 SF
FILL = 0.0 SF
119+00
EXC. = 238.1 CY
EMB. = 0.0 CY



CUT = 146.9 SF
FILL = 0.0 SF
118+50
EXC. = 295.9 CY
EMB. = 0.0 CY



CUT = 172.7 SF
FILL = 0.0 SF
118+00
EXC. = 295.3 CY
EMB. = 0.0 CY

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
6	7/23/93	REVISE SECTIONS	AK	
5	7-14-92	REVISE SECTIONS	CP	

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CHEYL M. PALESCH
REGISTERED
PROFESSIONAL
ENGINEER
No. 5952-C
HAWAII, U.S.A.

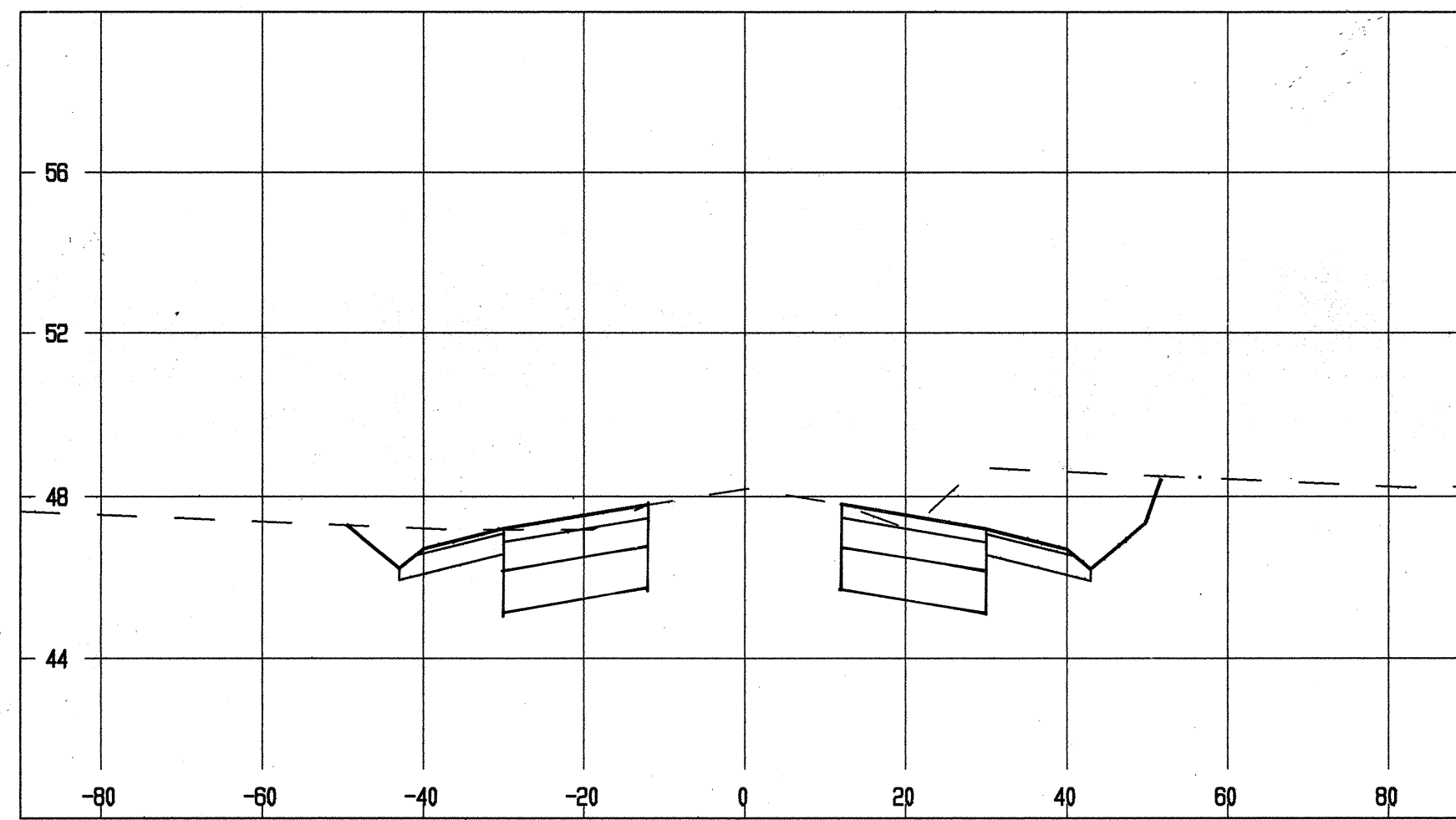
BELT COLLINS & ASSOCIATES
680 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7438474 Fax: (808) 538-7819

Client:
**HOUSING FINANCE AND
DEVELOPMENT CORPORATION
STATE OF HAWAII**

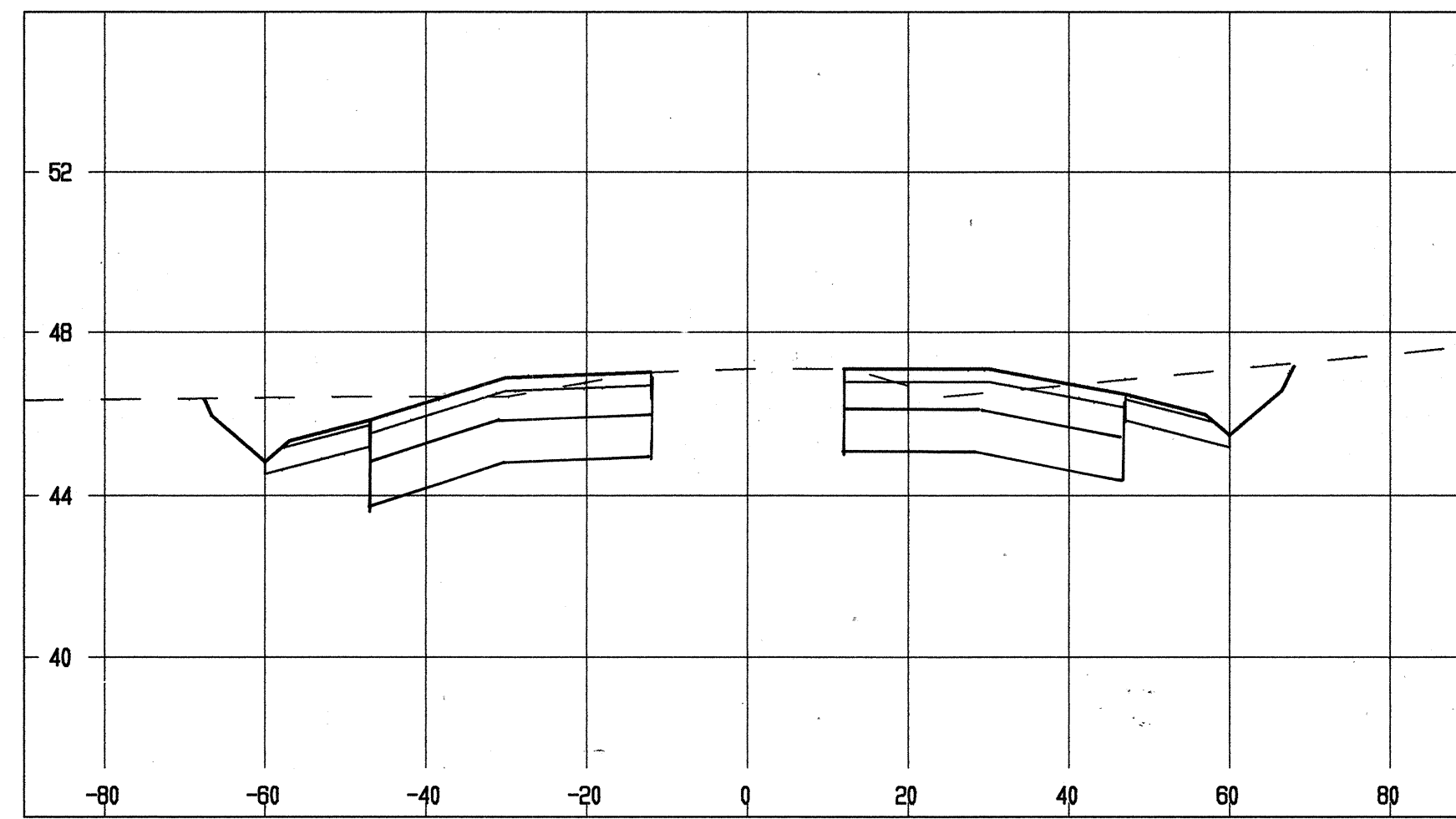
**VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 115+00 TO STA. 119+00**

Designed by: CP, AK Date: _____
Drawn by: AK Proj. no.: (BCA) 841.0104

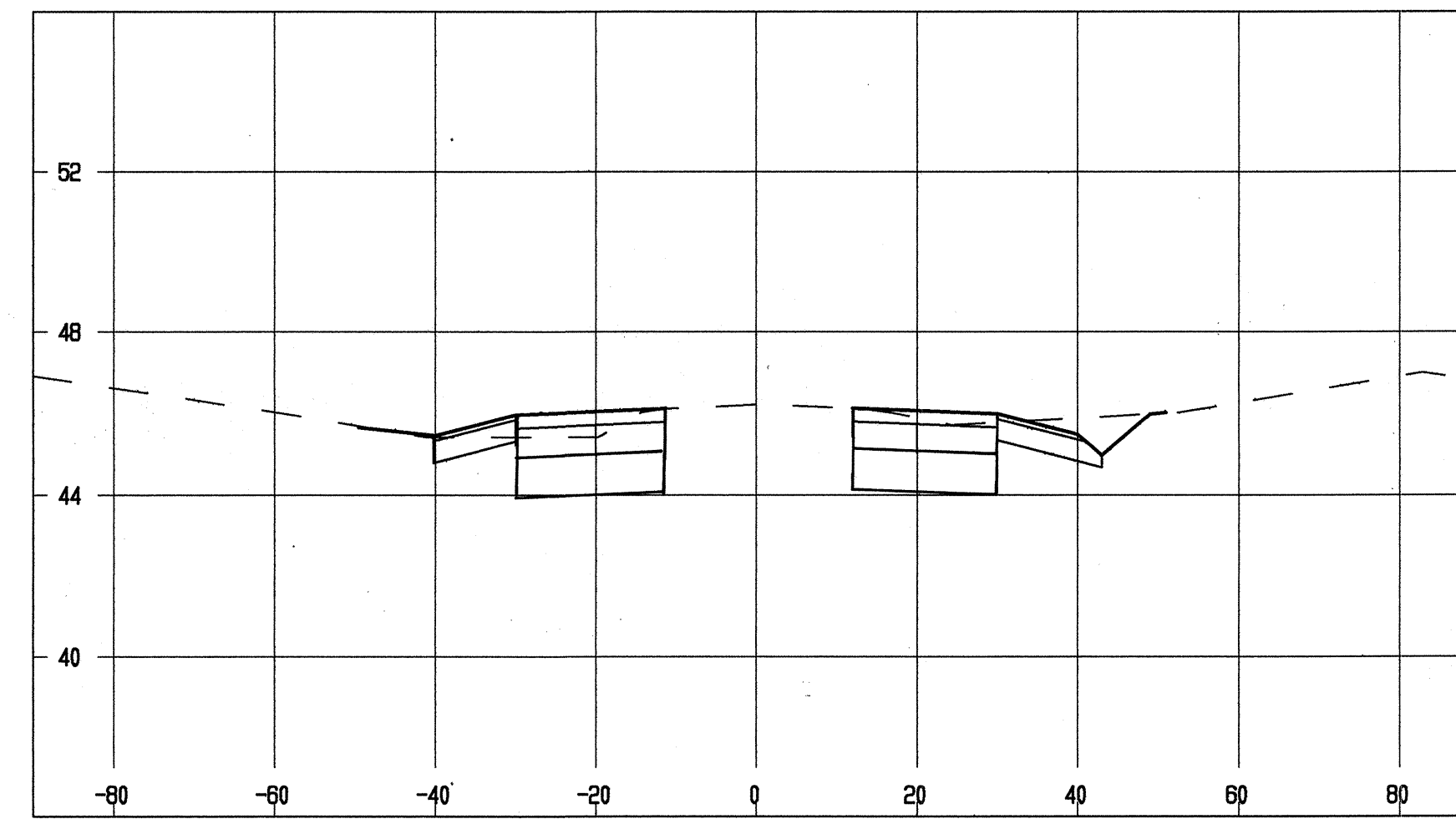
Approved: _____
Date: _____



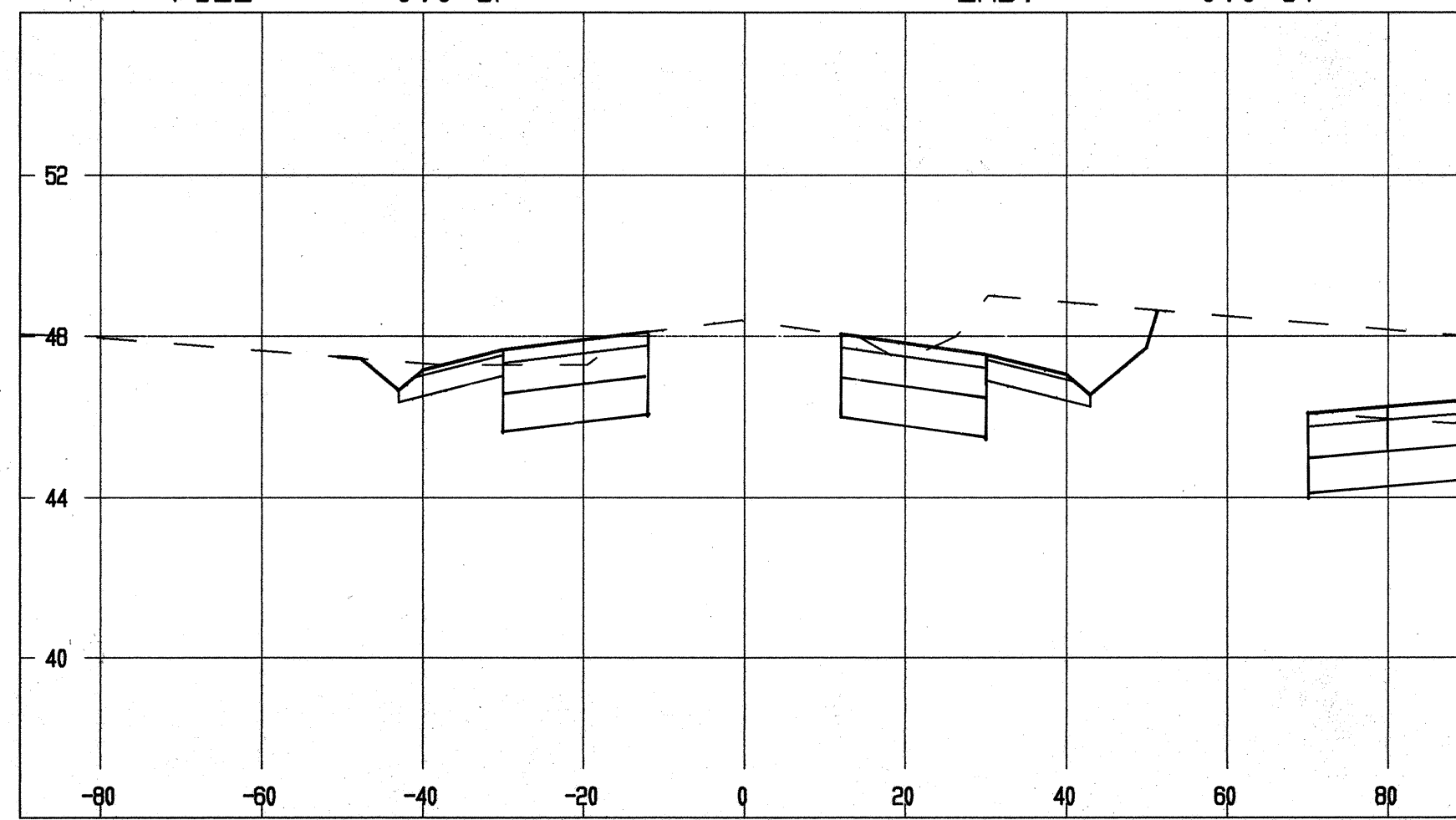
CUT = 134.5 SF
FILL = 0.0 SF
EXC. = 234.4 CY
EMB. = 0.0 CY



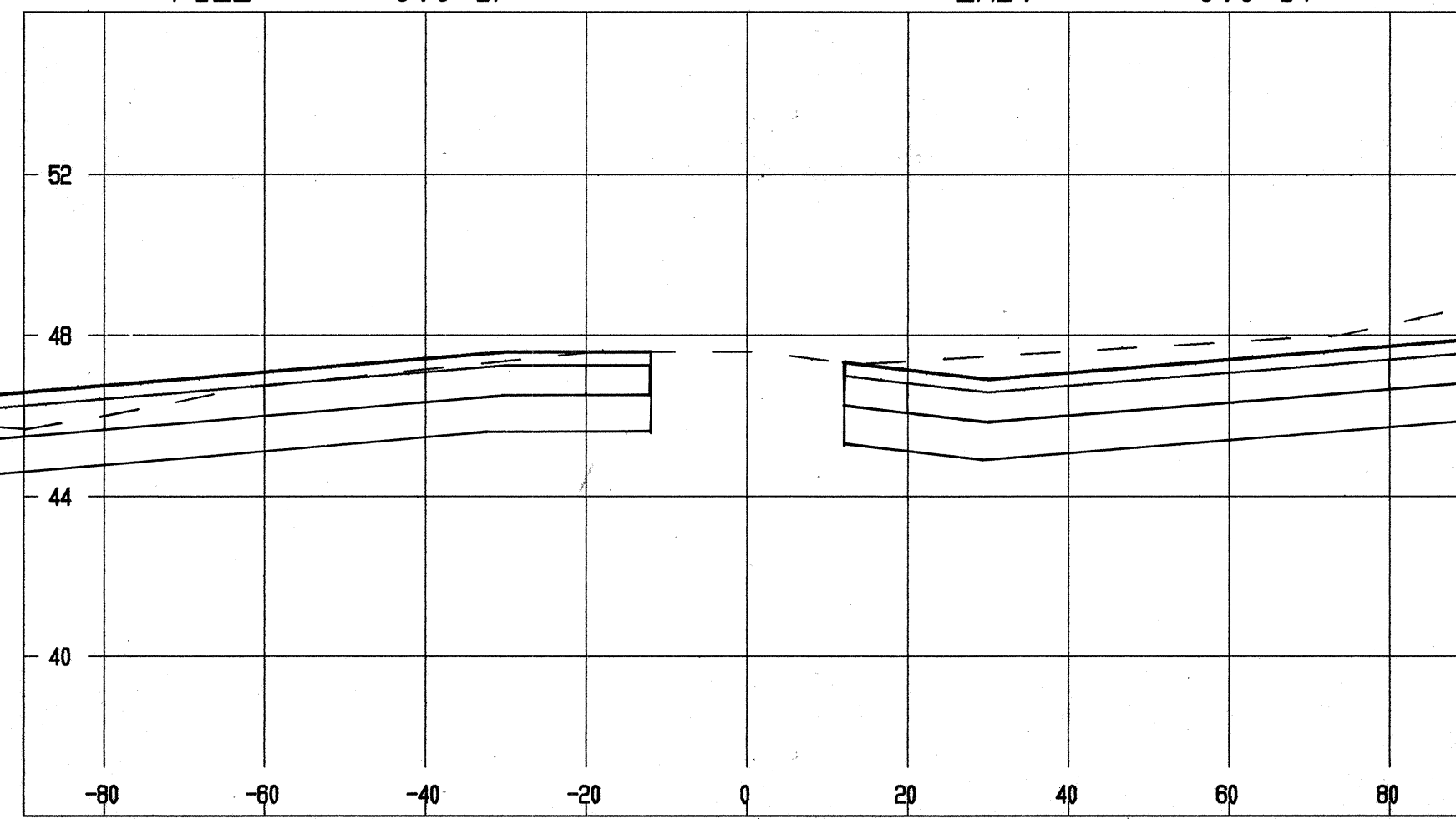
CUT = 194.5 SF
FILL = 0.0 SF
EXC. = 565.6 CY
EMB. = 0.0 CY



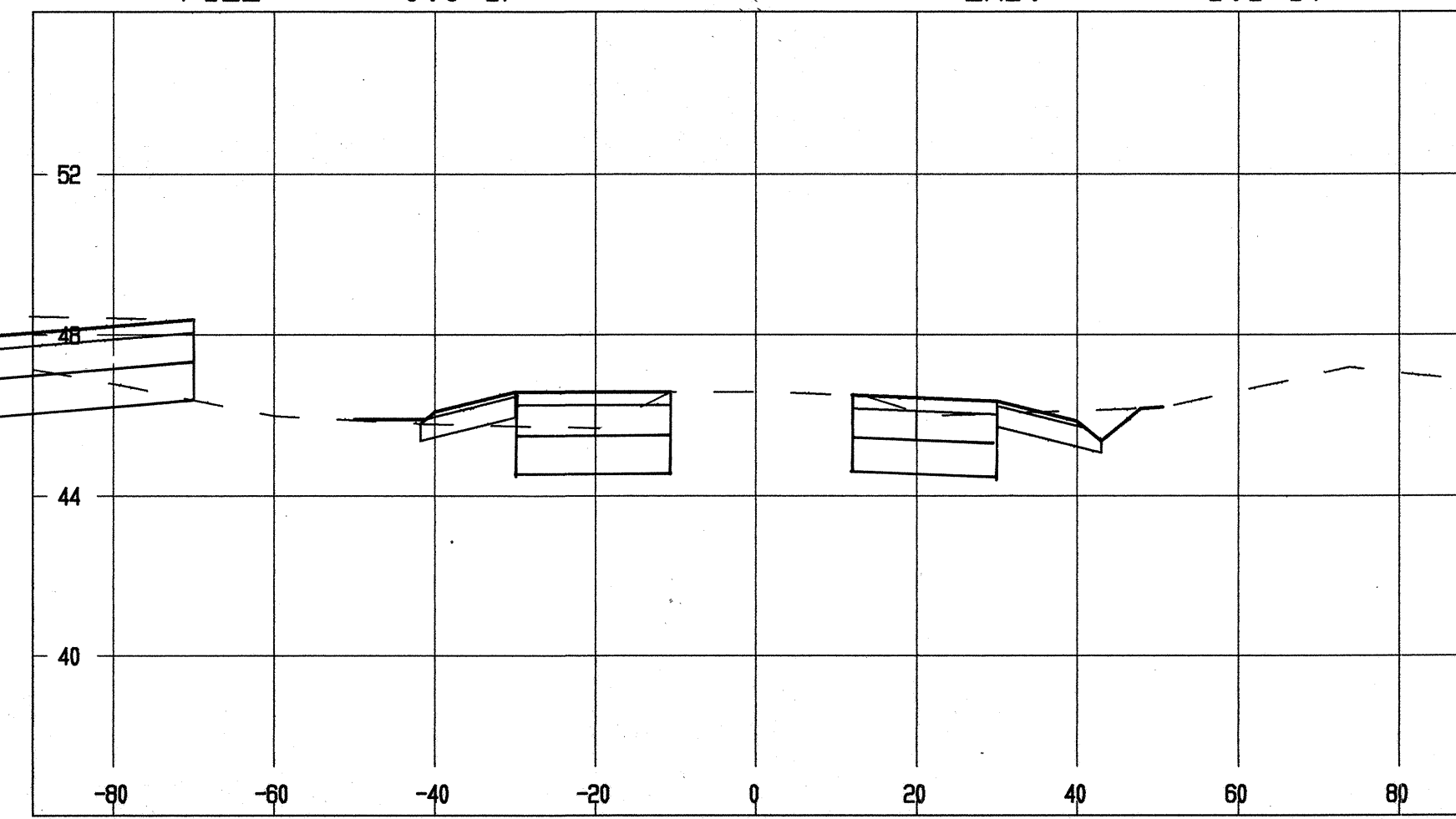
CUT = 78.2 SF
FILL = 0.0 SF
EXC. = 134.7 CY
EMB. = 1.5 CY



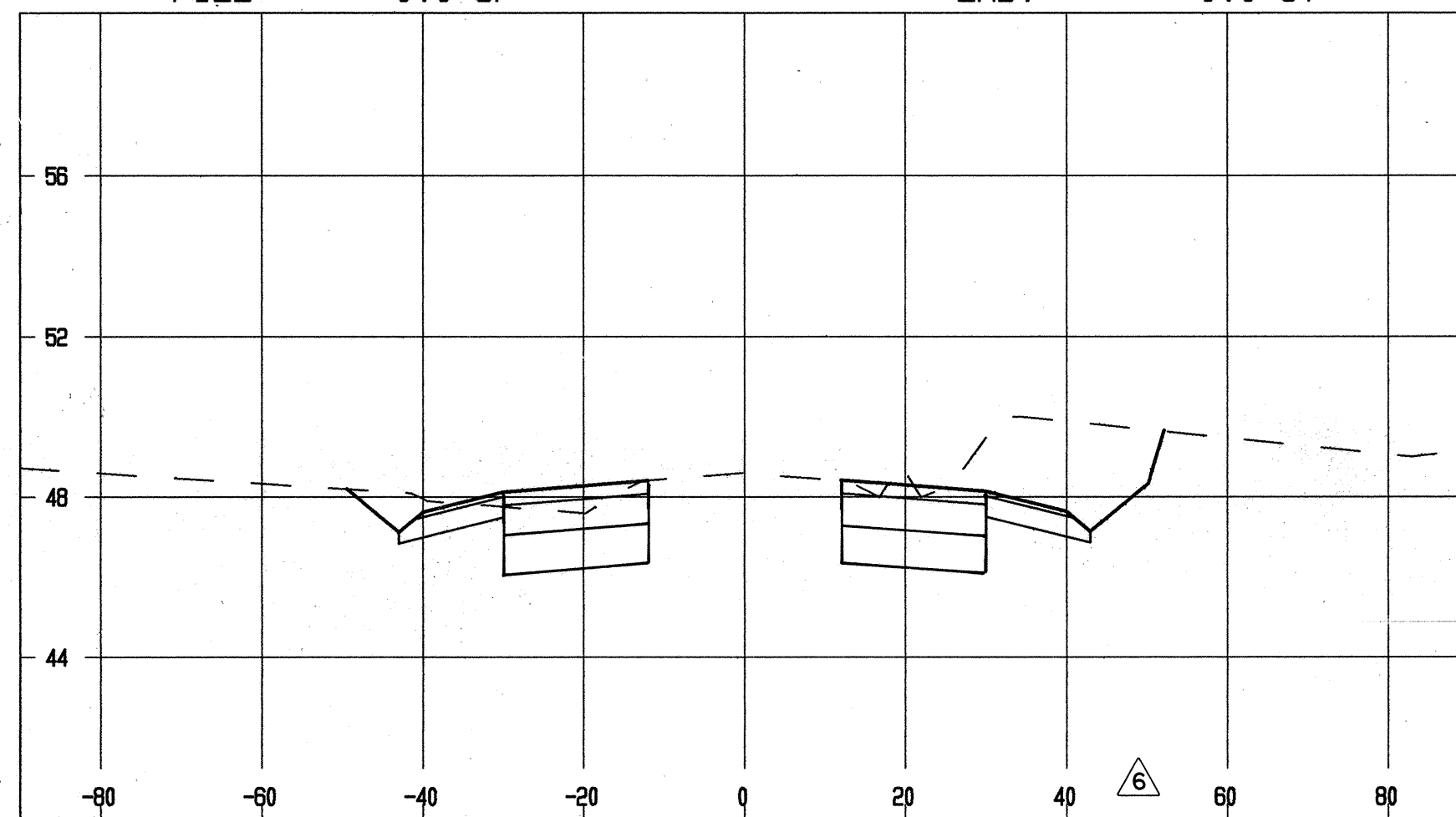
CUT = 118.6 SF
FILL = 0.0 SF
EXC. = 233.7 CY
EMB. = 0.0 CY



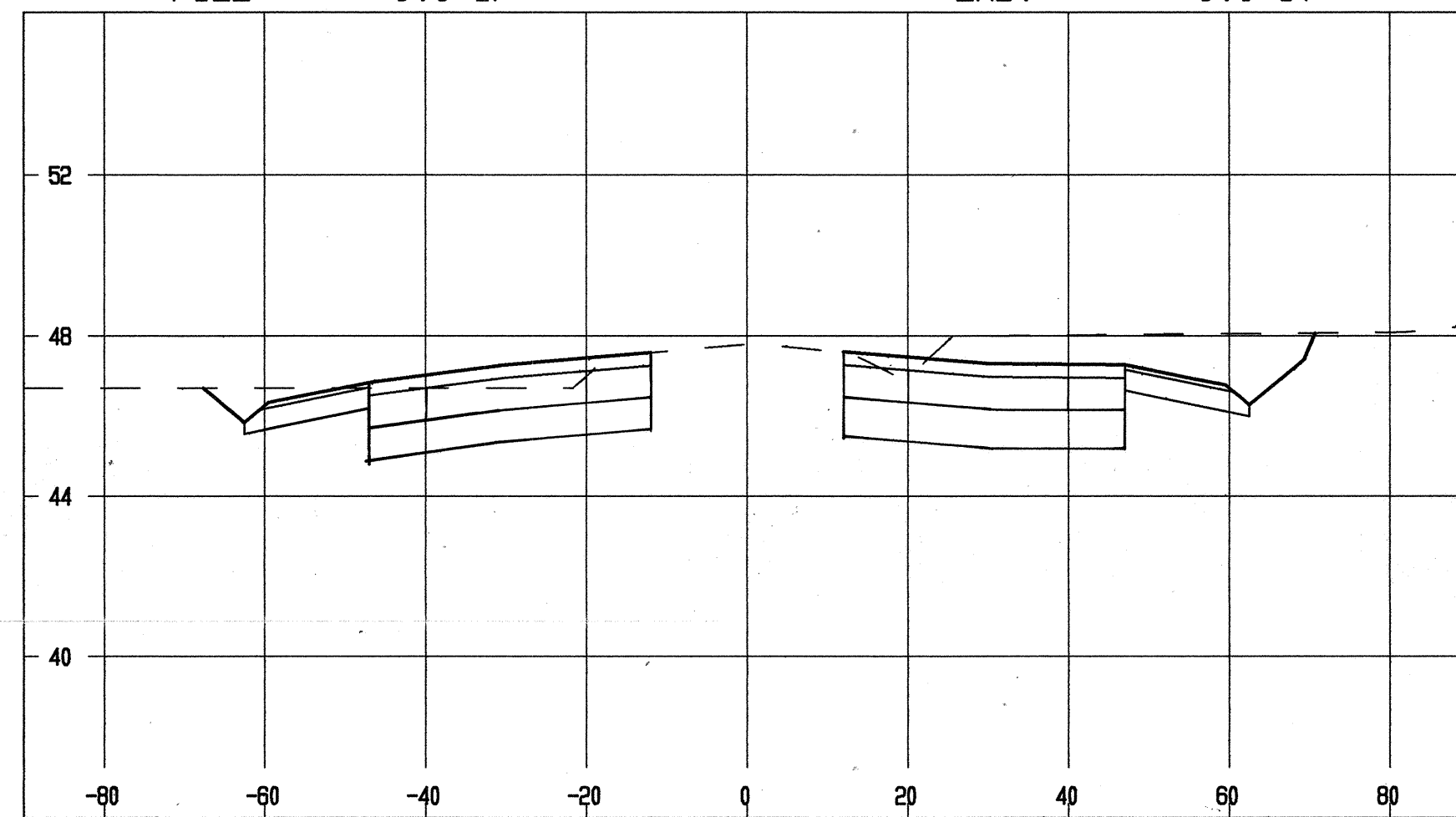
CUT = 416.4 SF
FILL = 0.0 SF
EXC. = 562.4 CY
EMB. = 0.0 CY



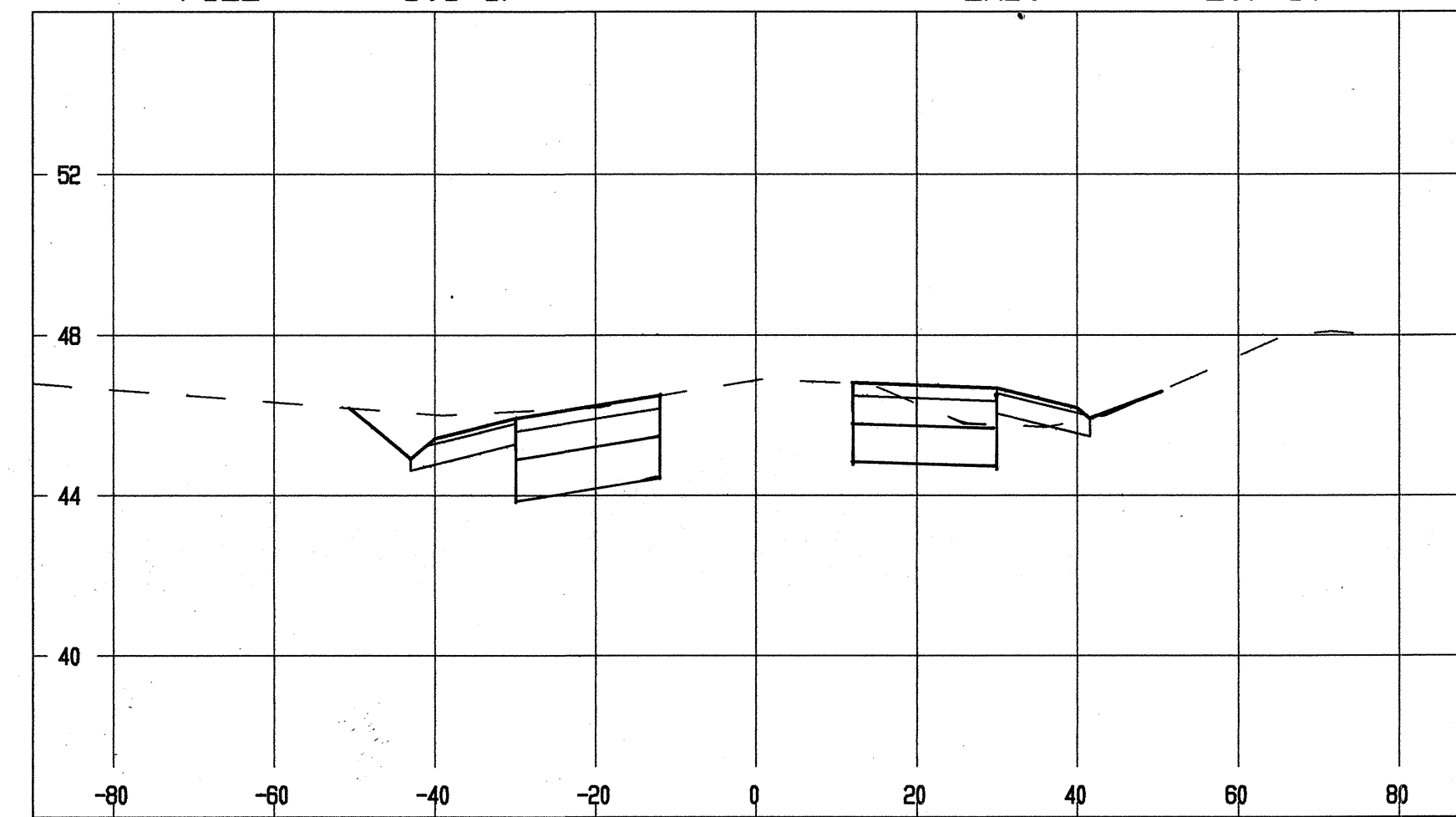
CUT = 67.3 SF
FILL = 1.6 SF
EXC. = 139.6 CY
EMB. = 2.7 CY



CUT = 133.8 SF
FILL = 0.0 SF
EXC. = 226.0 CY
EMB. = 0.0 CY



CUT = 191.0 SF
FILL = 0.0 SF
EXC. = 301.4 CY
EMB. = 0.0 CY



CUT = 83.5 SF
FILL = 1.3 SF
EXC. = 257.4 CY
EMB. = 1.2 CY

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7/23/93	REVISE QUANTITY	AK	
2	7-14-92	REVISE SECTIONS	CP	

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CHERYL M. PASEK
REGISTERED
PROFESSIONAL
ENGINEER
No. 5952-C
HAWAII, U.S.A.

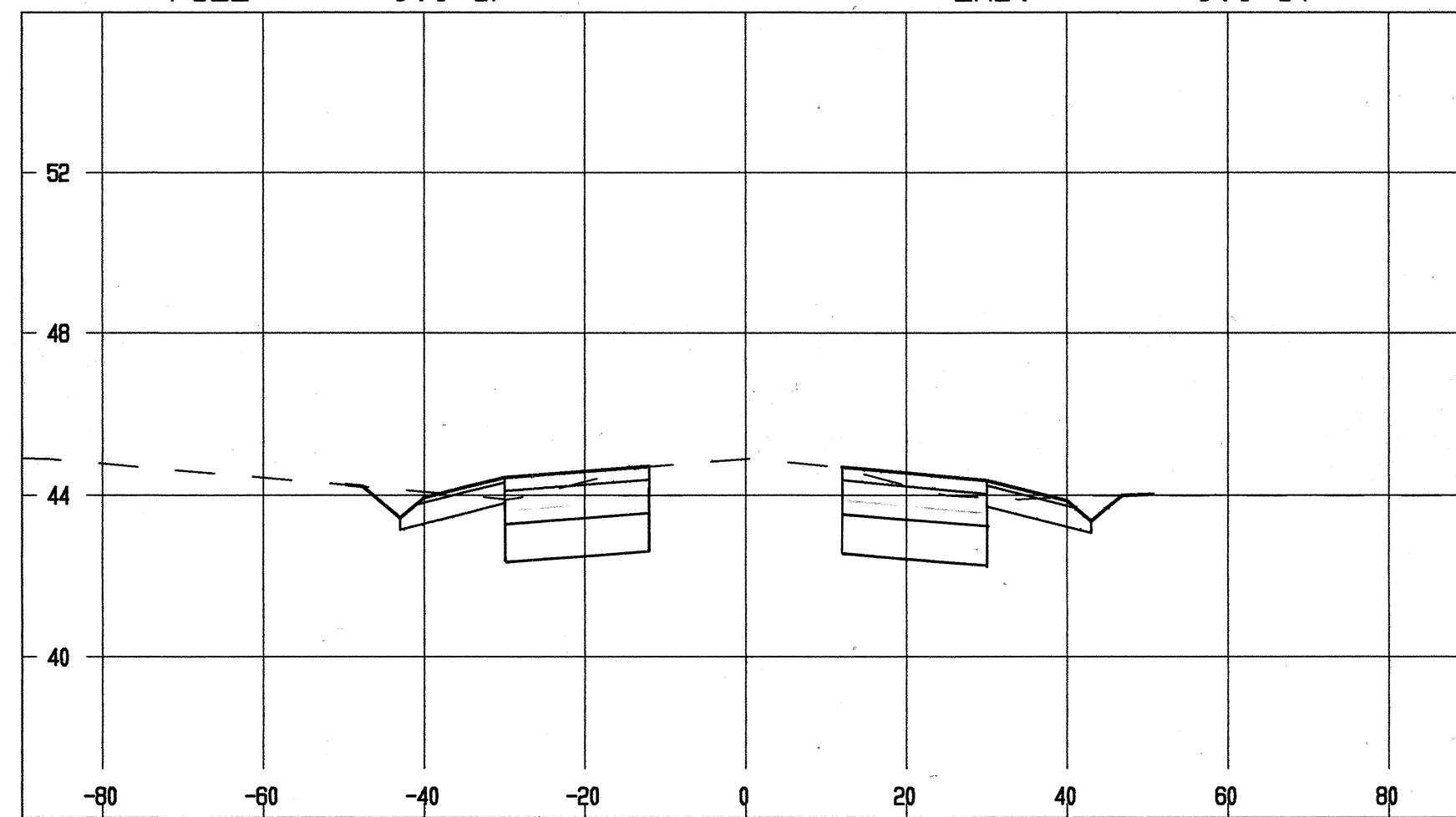
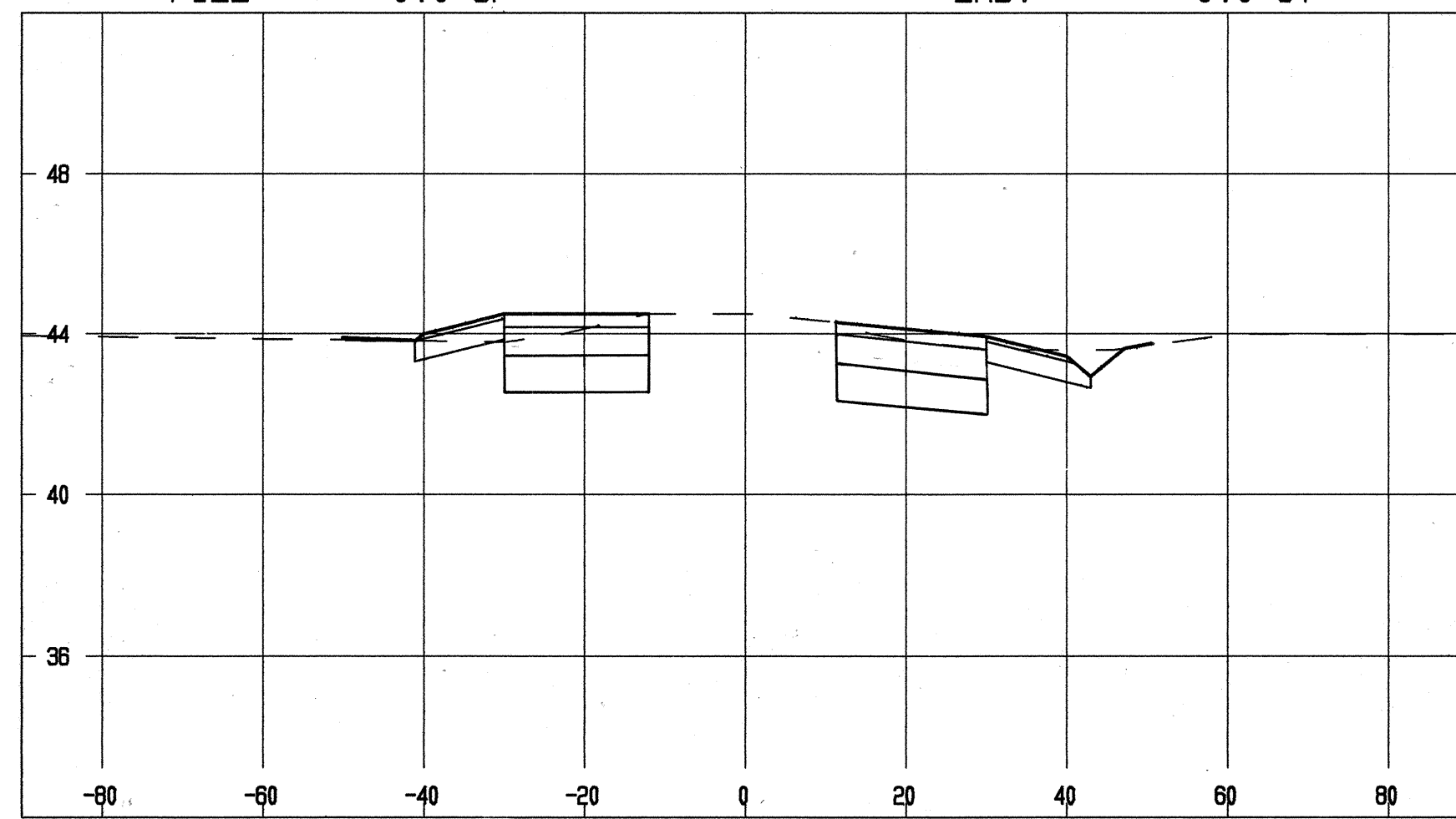
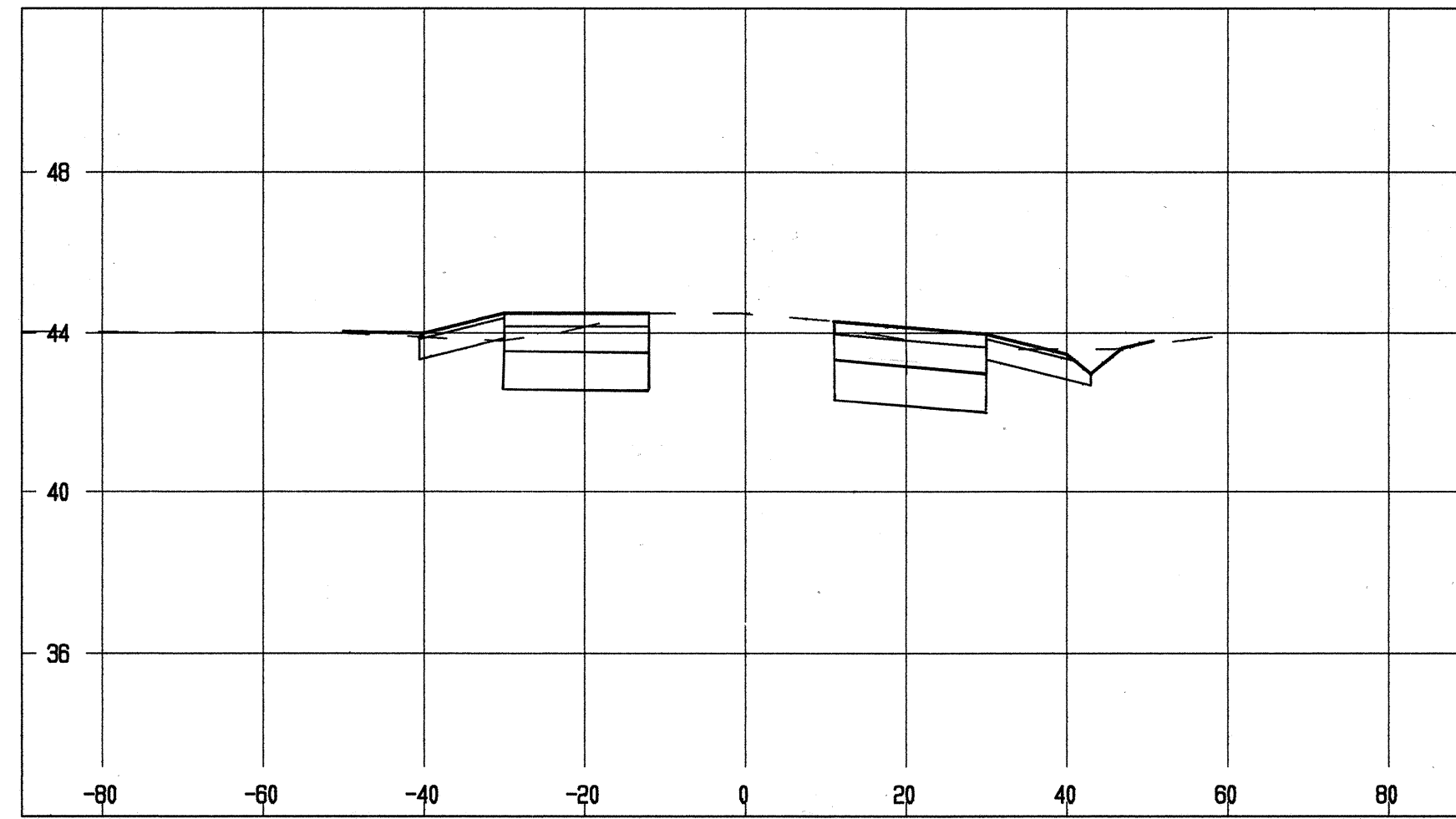
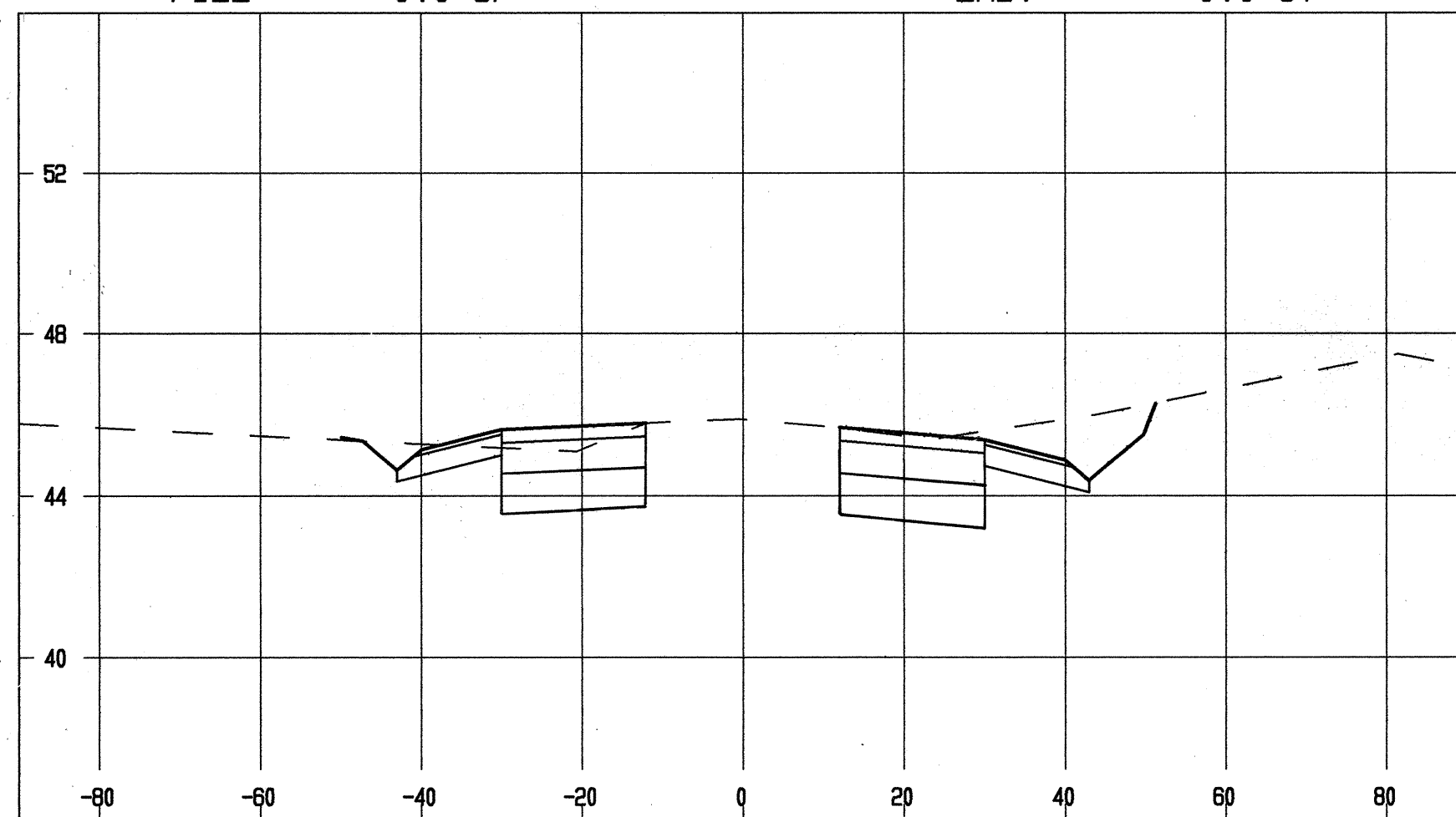
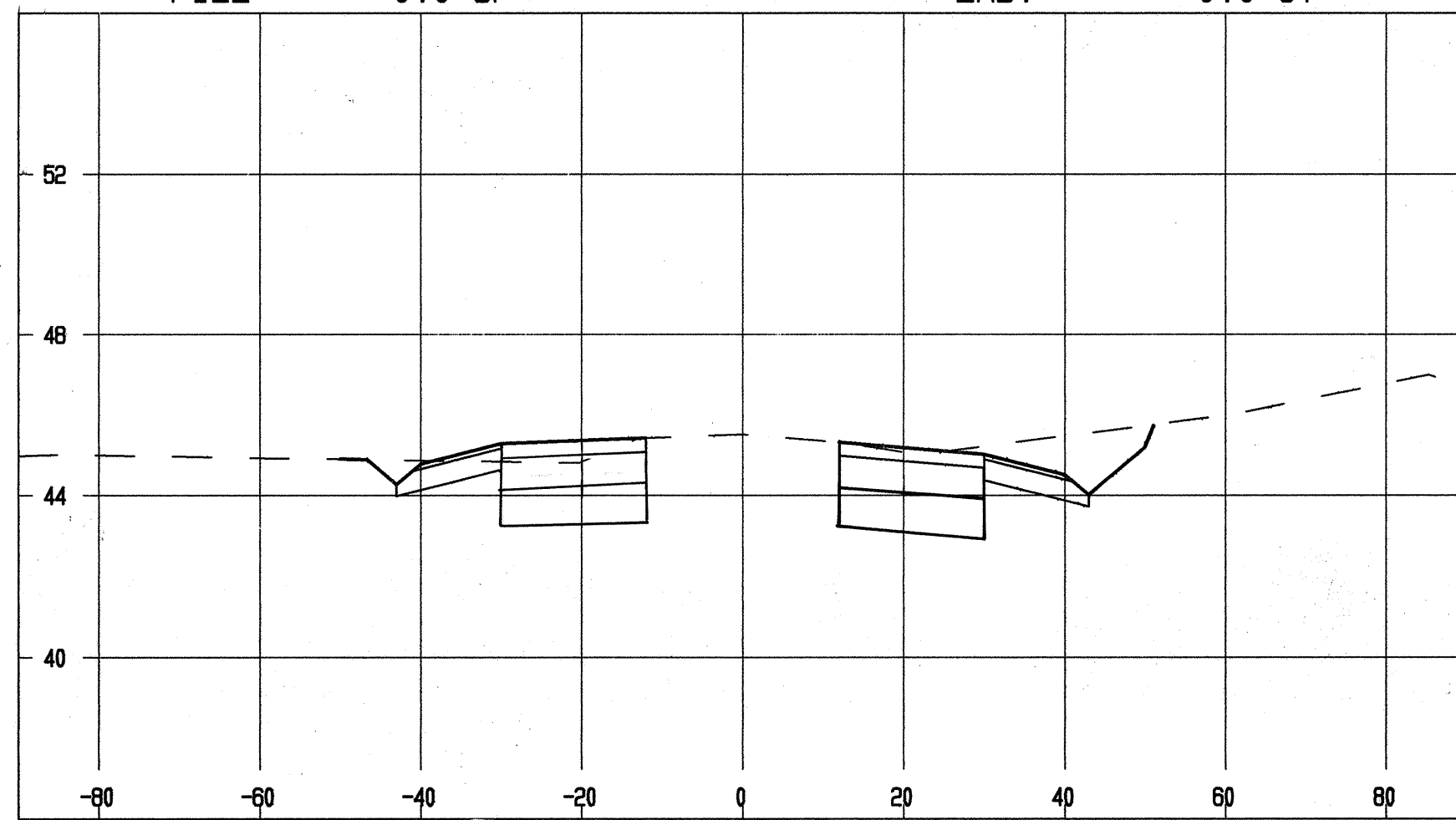
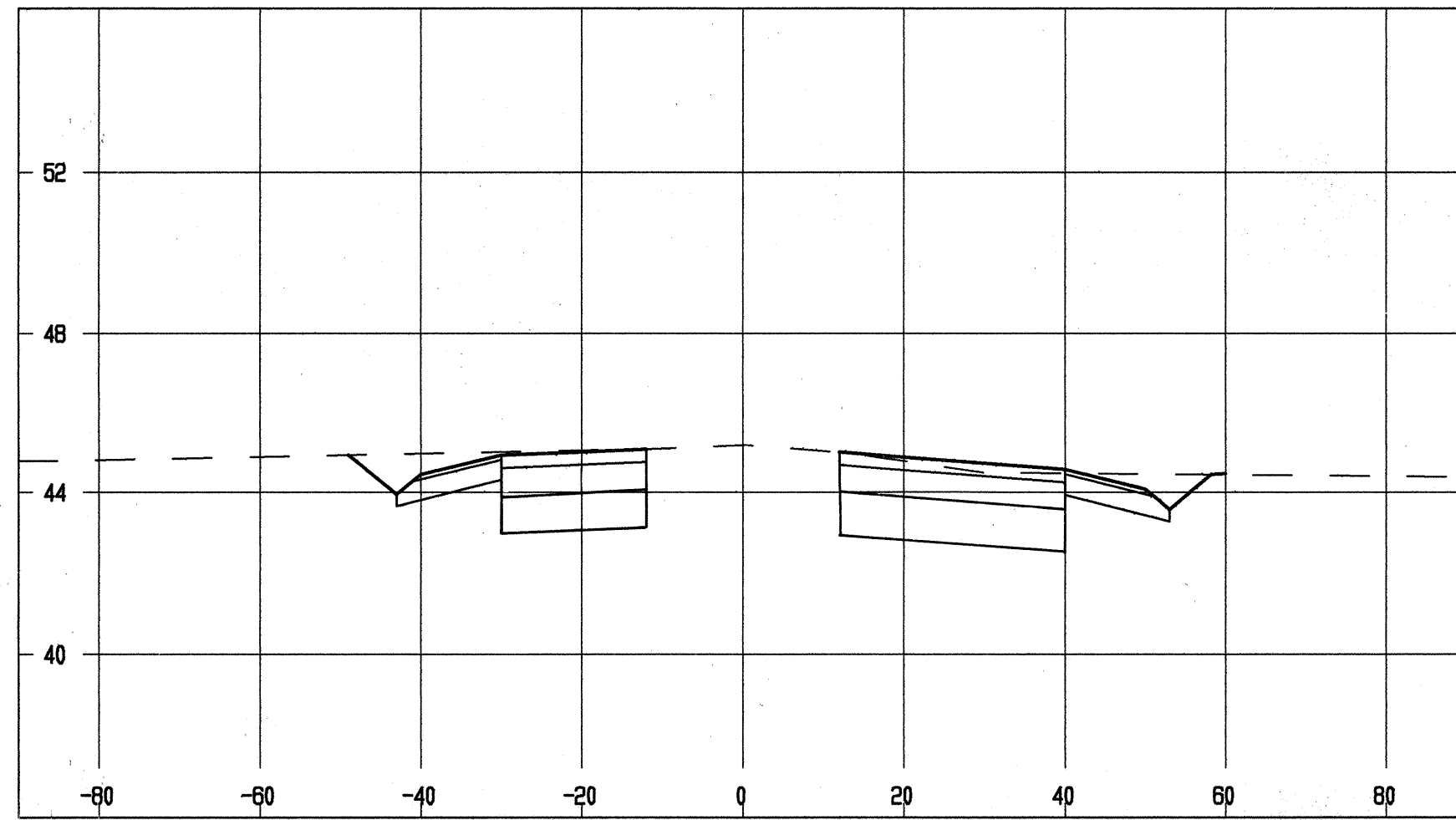
BELT COLLINS & ASSOCIATES
688 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7438474 Fax: (808) 536-7819

Client:
**HOUSING FINANCE AND
DEVELOPMENT CORPORATION**
STATE OF HAWAII

**VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 119+50 TO STA. 123+50**

Designed by: CP, AK Date: _____
Drawn by: AK Proj. no.: (BCA) 841.0104

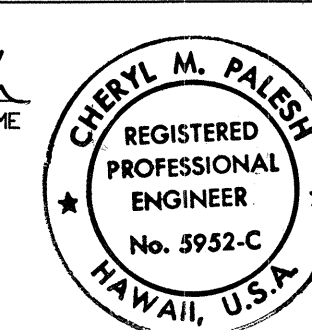
Approved: _____
Date: _____ Date: _____
Date: _____ Date: _____



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7-14-92	REVISE SECTIONS	CP	

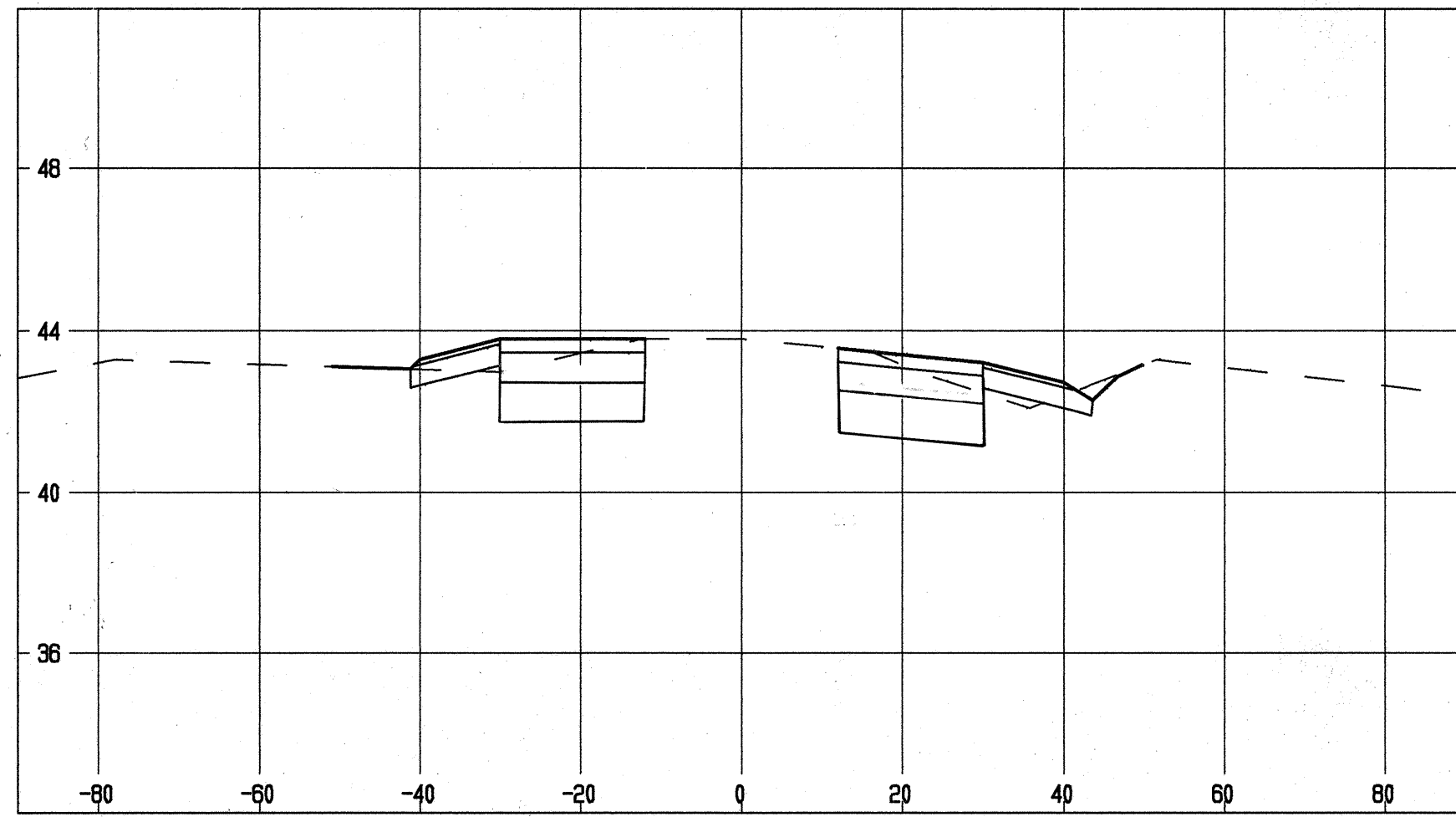
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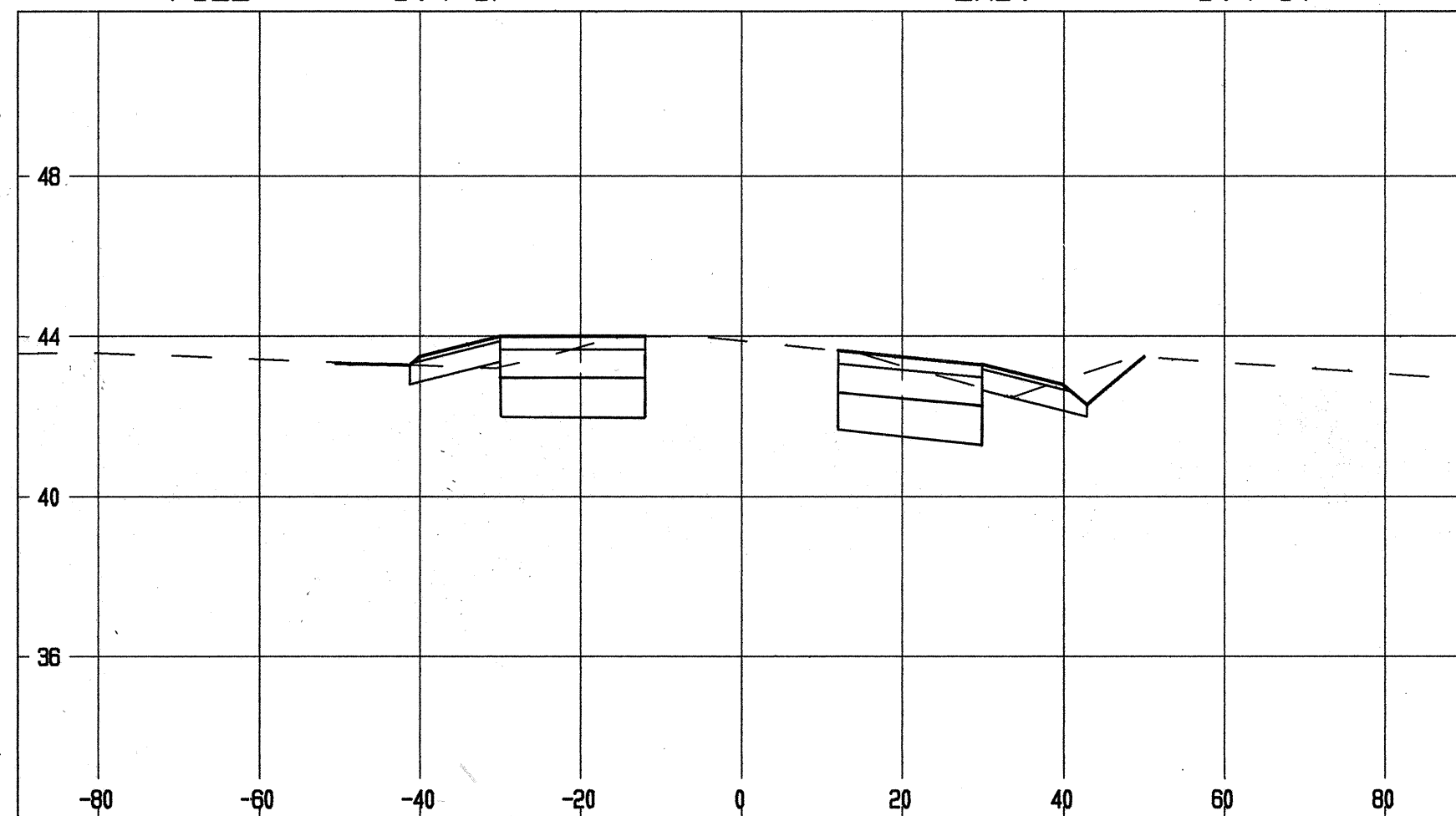
BELT COLLINS & ASSOCIATES
880 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7438474 Fax: (808) 538-7818

Client:
**HOUSING FINANCE AND
DEVELOPMENT CORPORATION
STATE OF HAWAII**

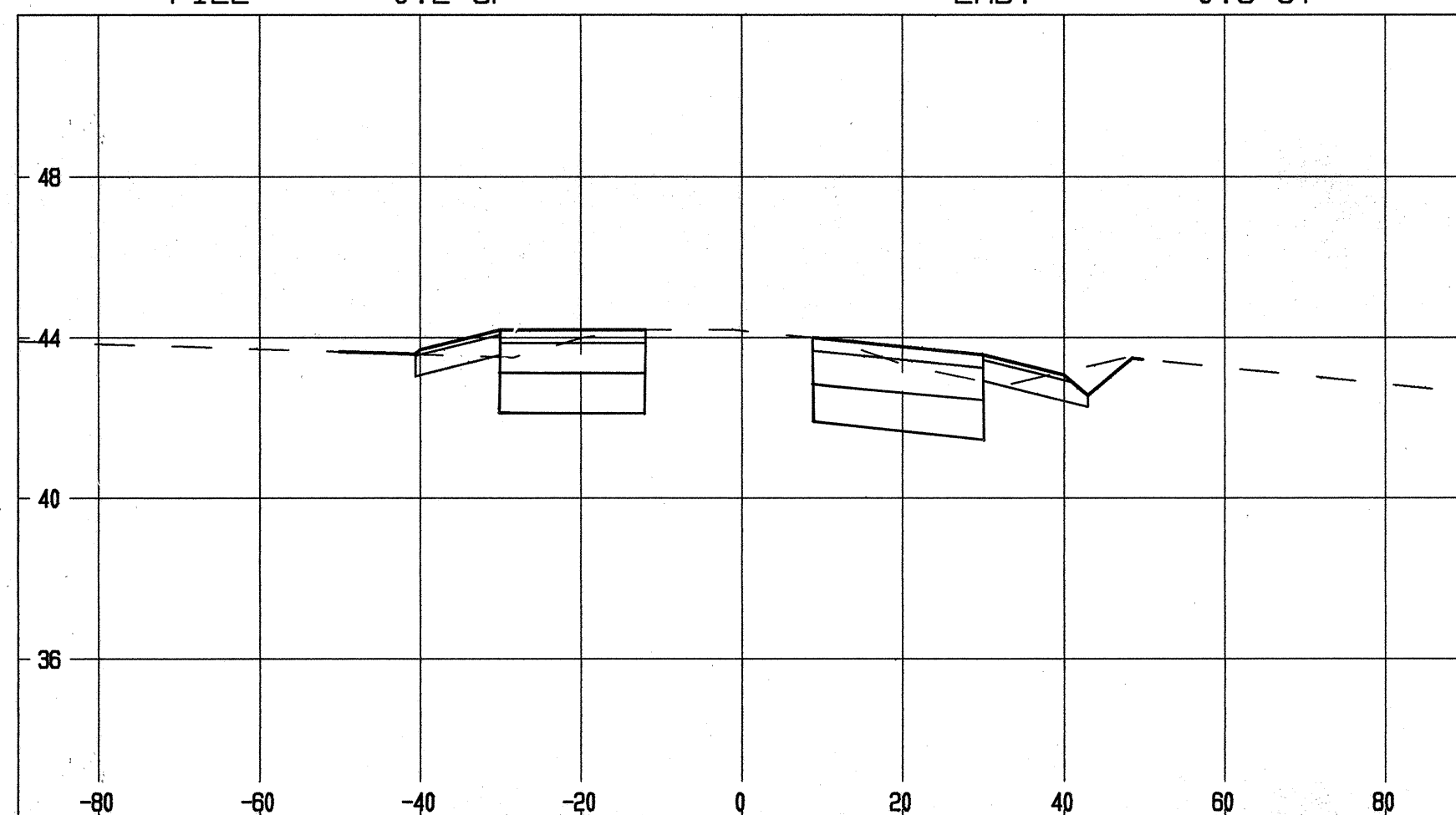
**VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 124+00 TO STA. 126+05.57 = 0+00.11**
Designed by: **CP, AK** Date: _____
Drawn by: **AK** Proj. no.: **(BCA)841.0104**
Approved: _____
Date: _____



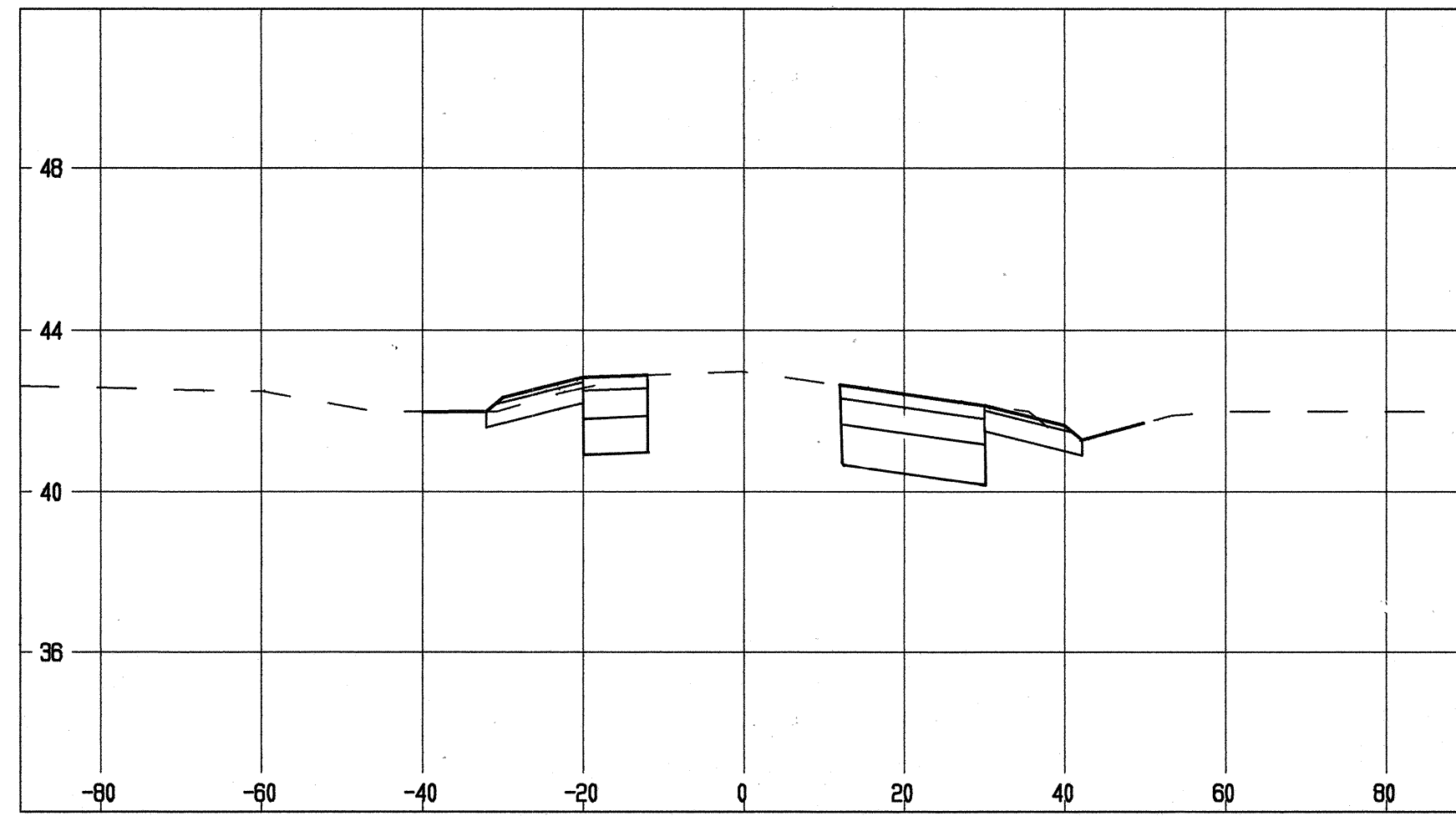
CUT = 65.6 SF
FILL = 1.4 SF
1+50
EXC. = 124.3 CY
EMB. = 1.4 CY



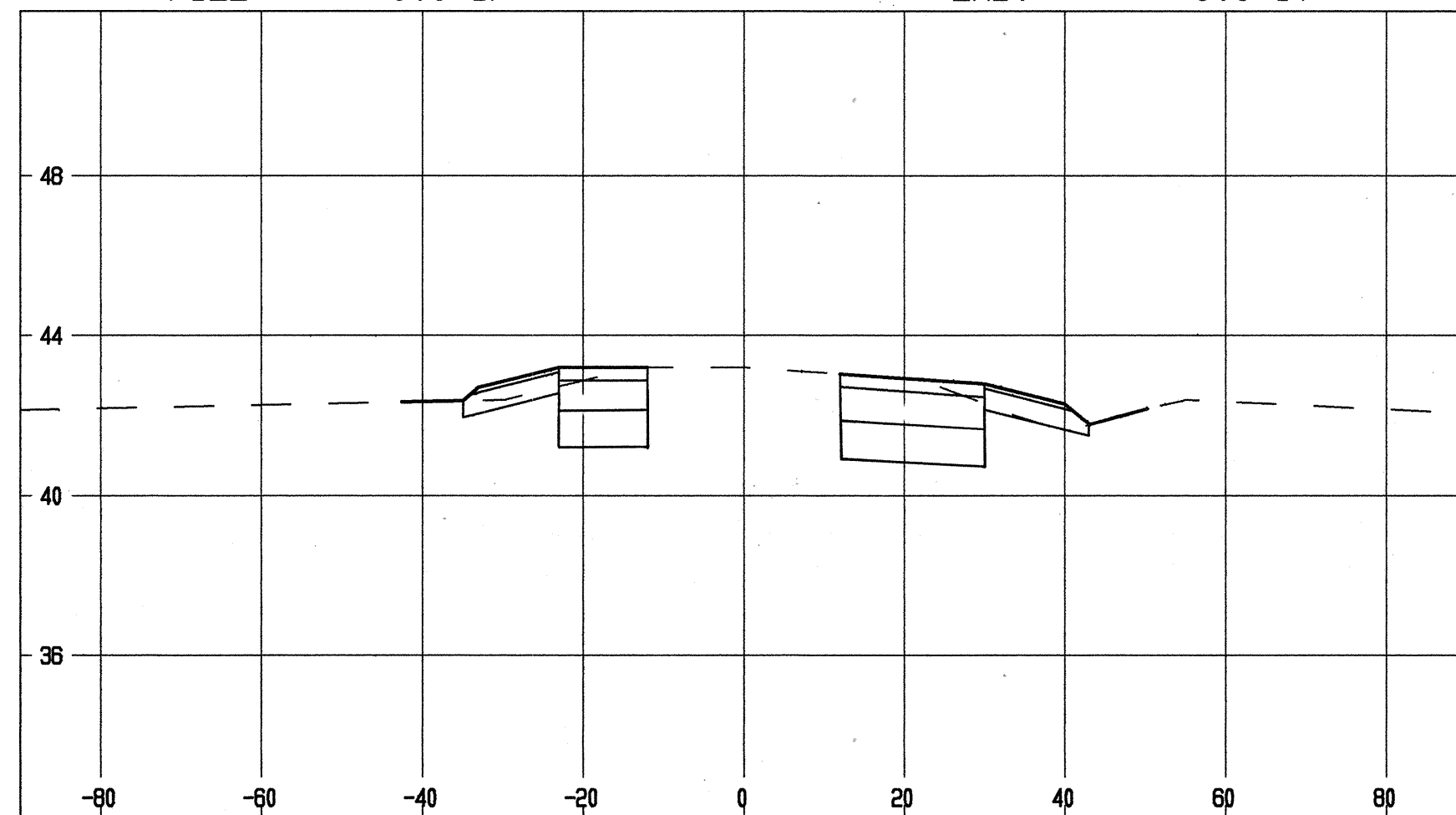
CUT = 68.6 SF
FILL = 0.2 SF
1+00
EXC. = 133.2 CY
EMB. = 0.3 CY



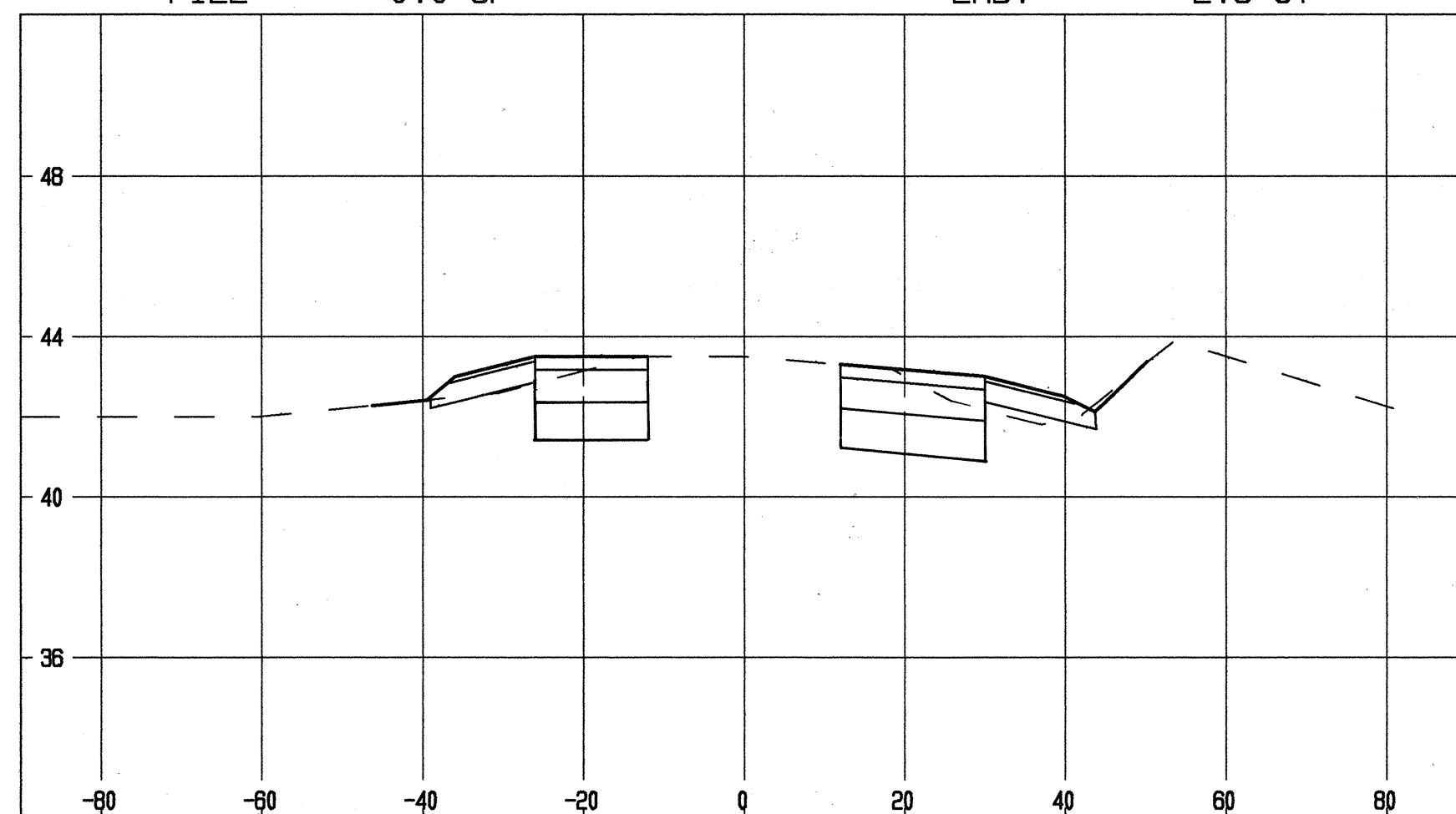
CUT = 75.3 SF
FILL = 0.2 SF
0+50
EXC. = 137.8 CY
EMB. = 0.2 CY



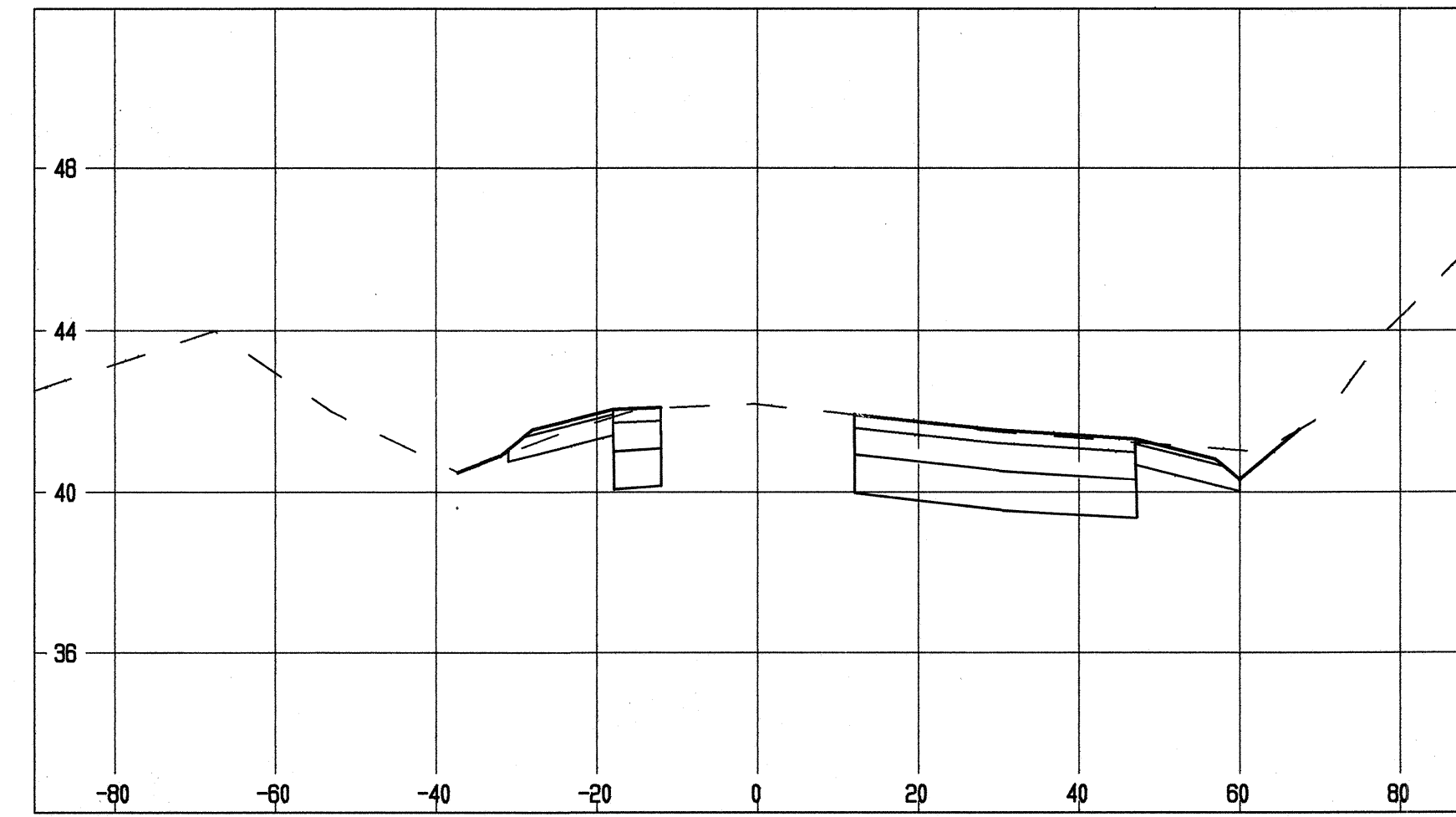
CUT = 63.9 SF
FILL = 0.0 SF
3+00
EXC. = 109.8 CY
EMB. = 0.0 CY



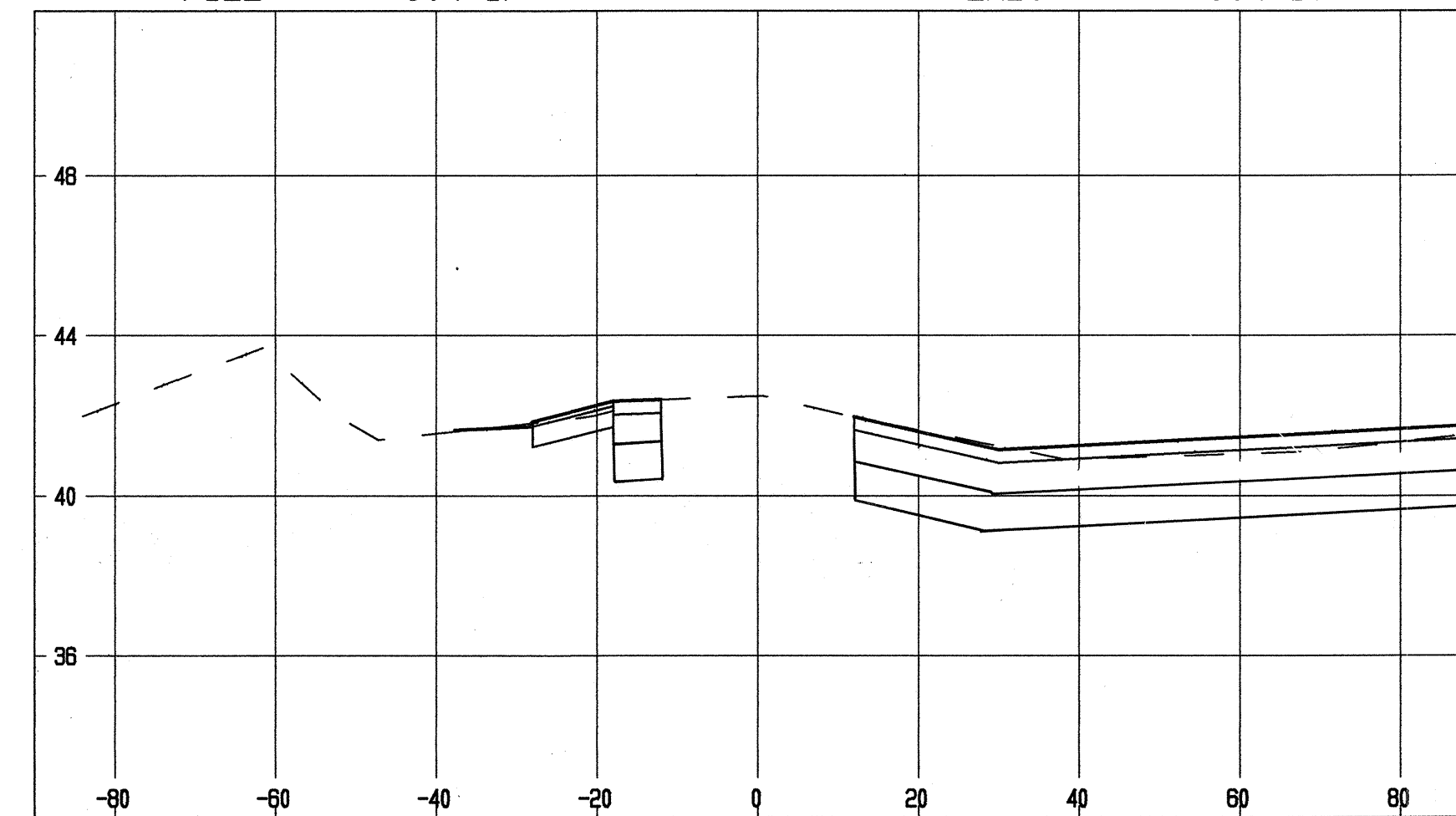
CUT = 54.7 SF
FILL = 0.0 SF
2+50
EXC. = 102.0 CY
EMB. = 2.5 CY



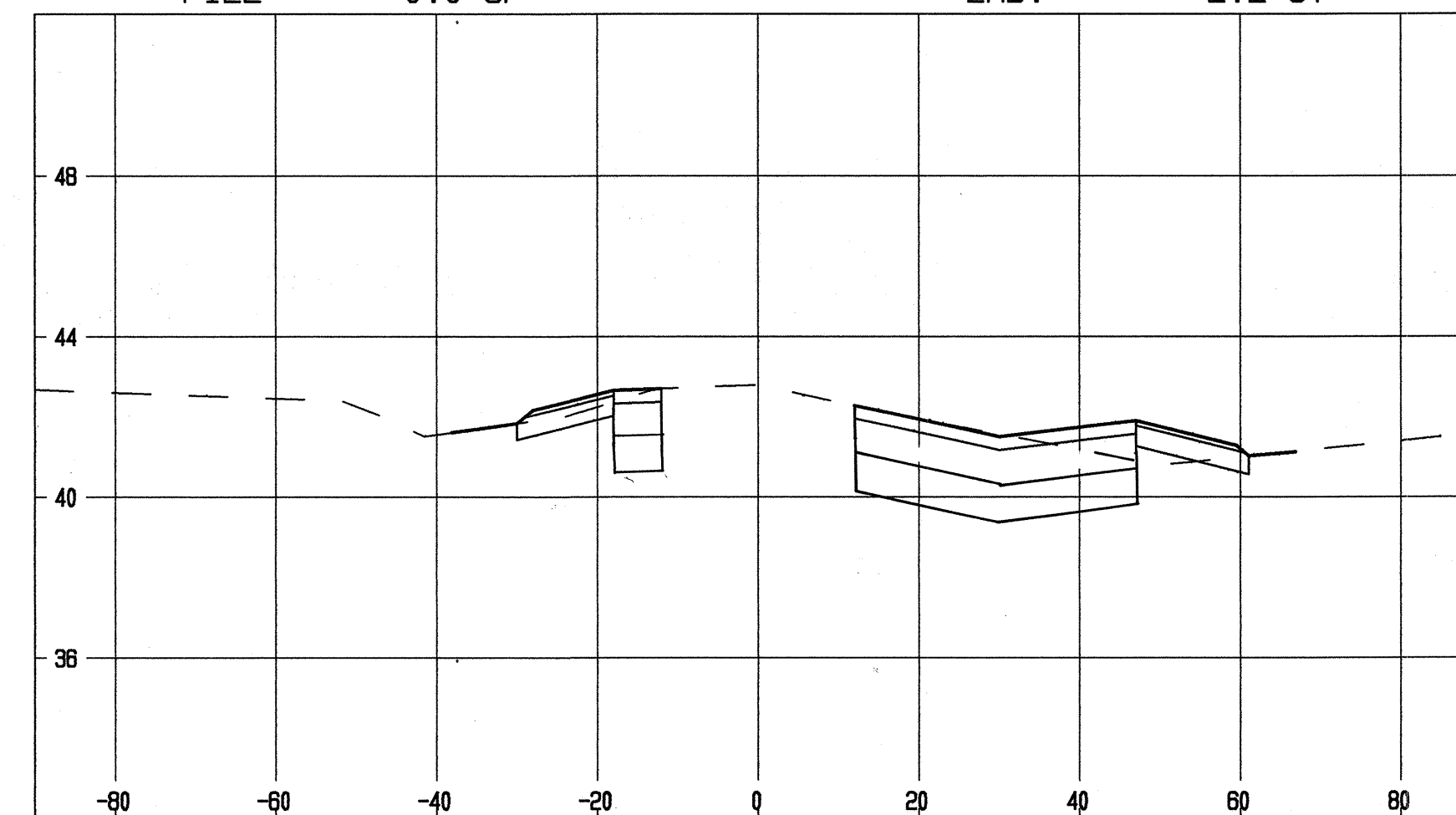
CUT = 55.5 SF
FILL = 2.7 SF
2+00
EXC. = 112.1 CY
EMB. = 3.7 CY



CUT = 67.5 SF
FILL = 0.4 SF
4+50
EXC. = 260.1 CY
EMB. = 0.4 CY



CUT = 213.4 SF
FILL = 0.0 SF
4+00
EXC. = 272.8 CY
EMB. = 2.2 CY



CUT = 81.2 SF
FILL = 2.4 SF
3+50
EXC. = 134.4 CY
EMB. = 2.2 CY

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7-14-92	REVISE SECTIONS	CP	

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CHERYL M. PALESCH
REGISTERED PROFESSIONAL ENGINEER
No. 5952-C
HAWAII, U.S.A.

BELT COLLINS & ASSOCIATES
580 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7438474 Fax: (808) 536-7613

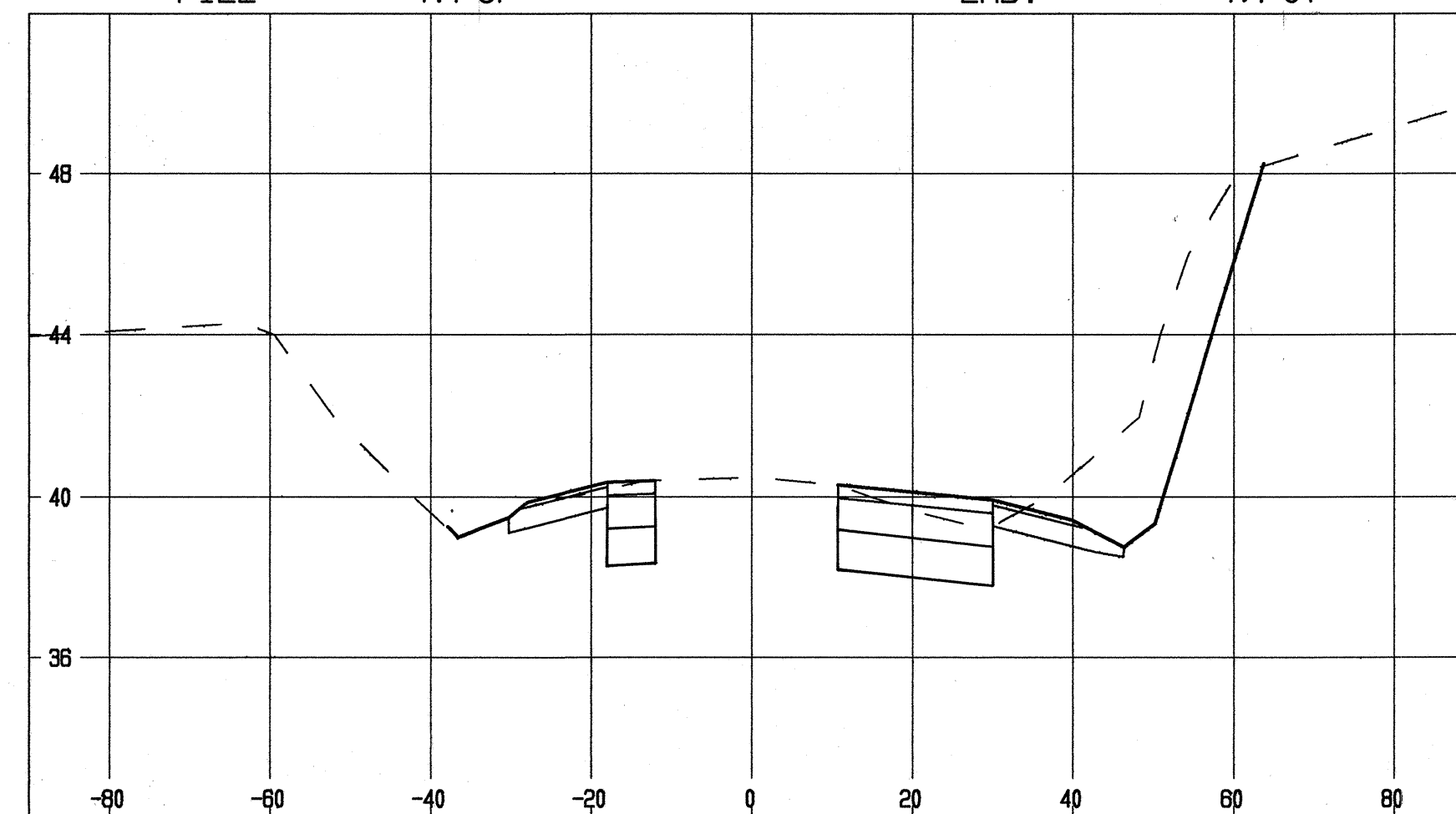
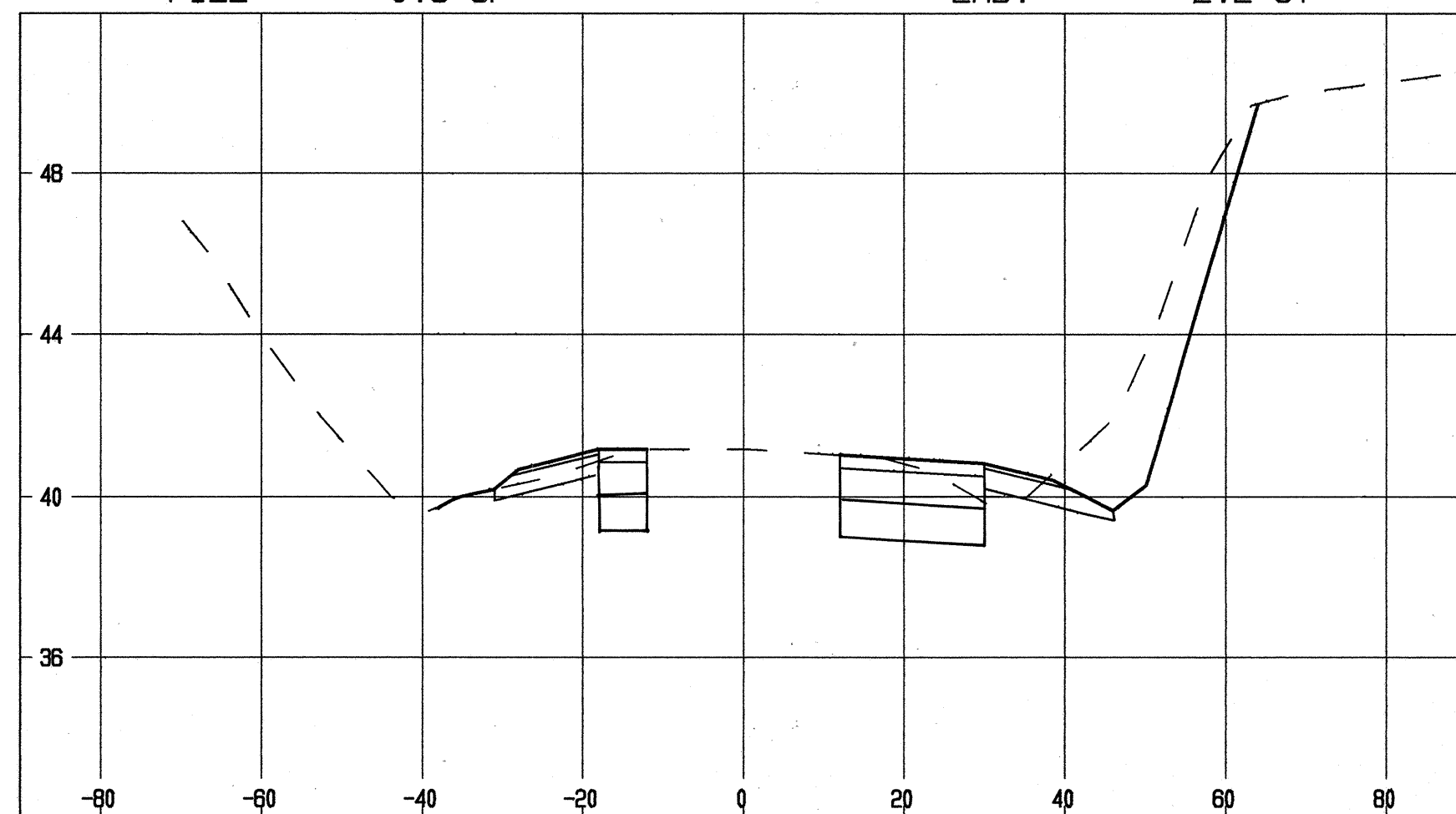
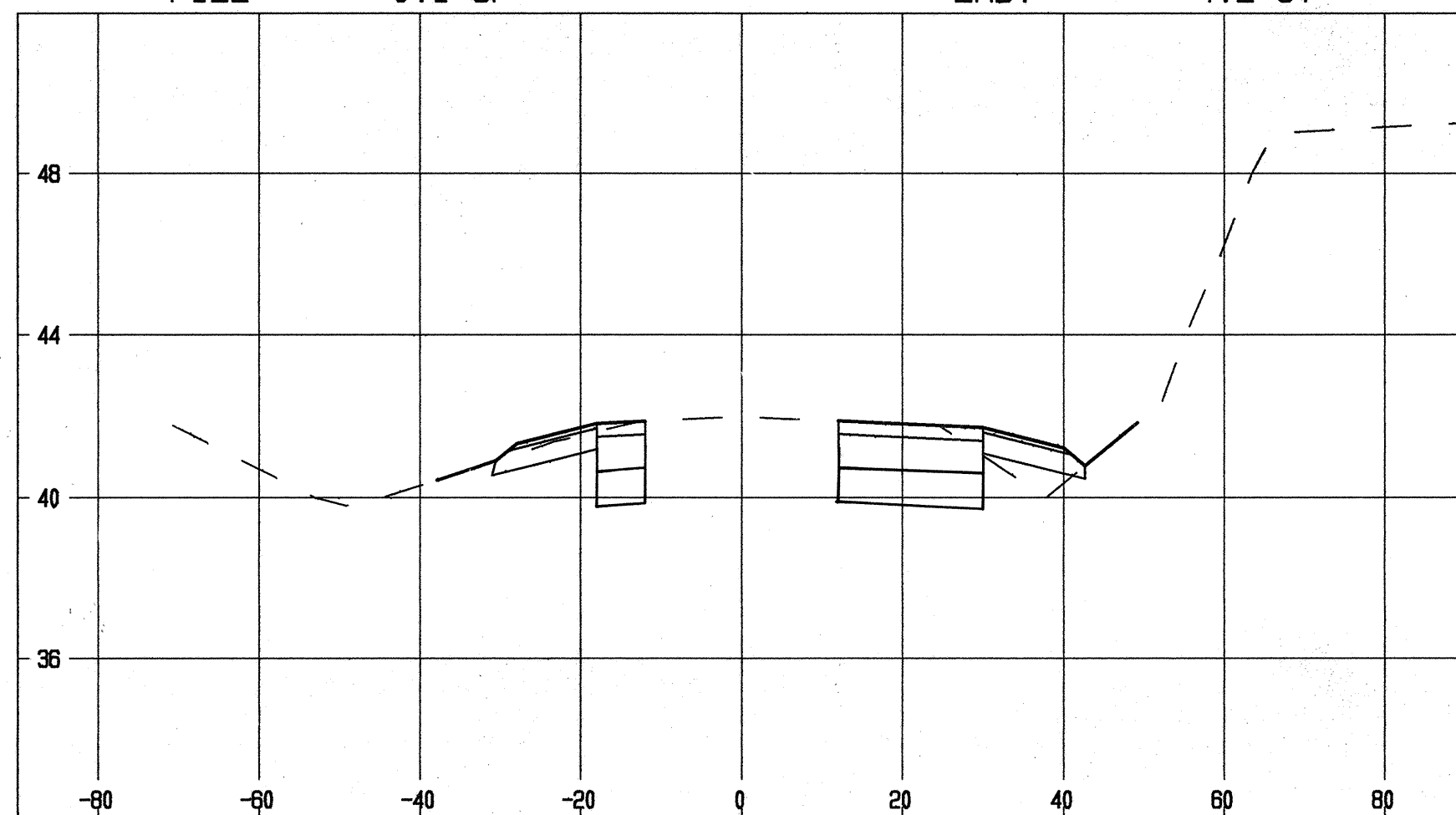
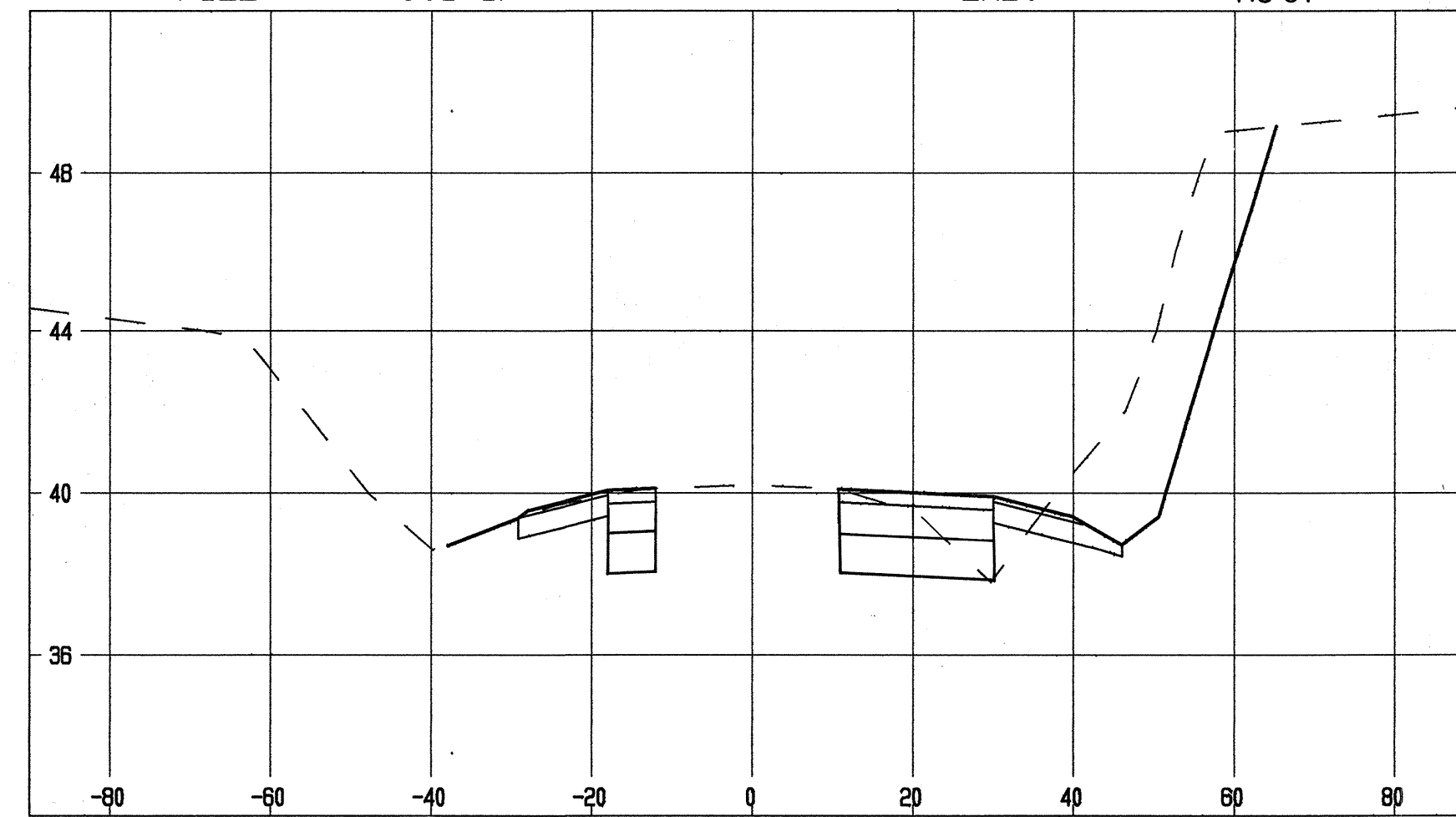
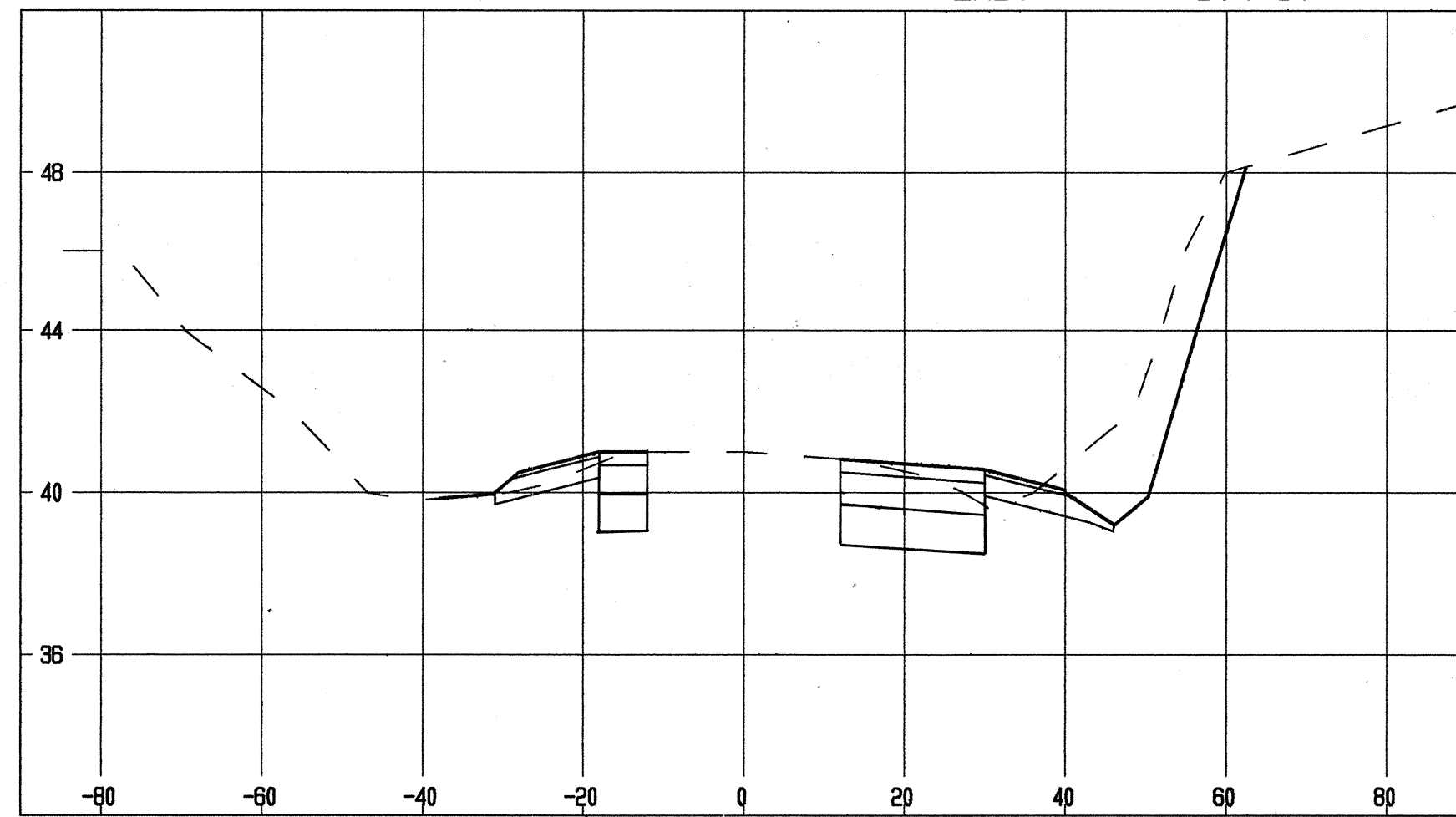
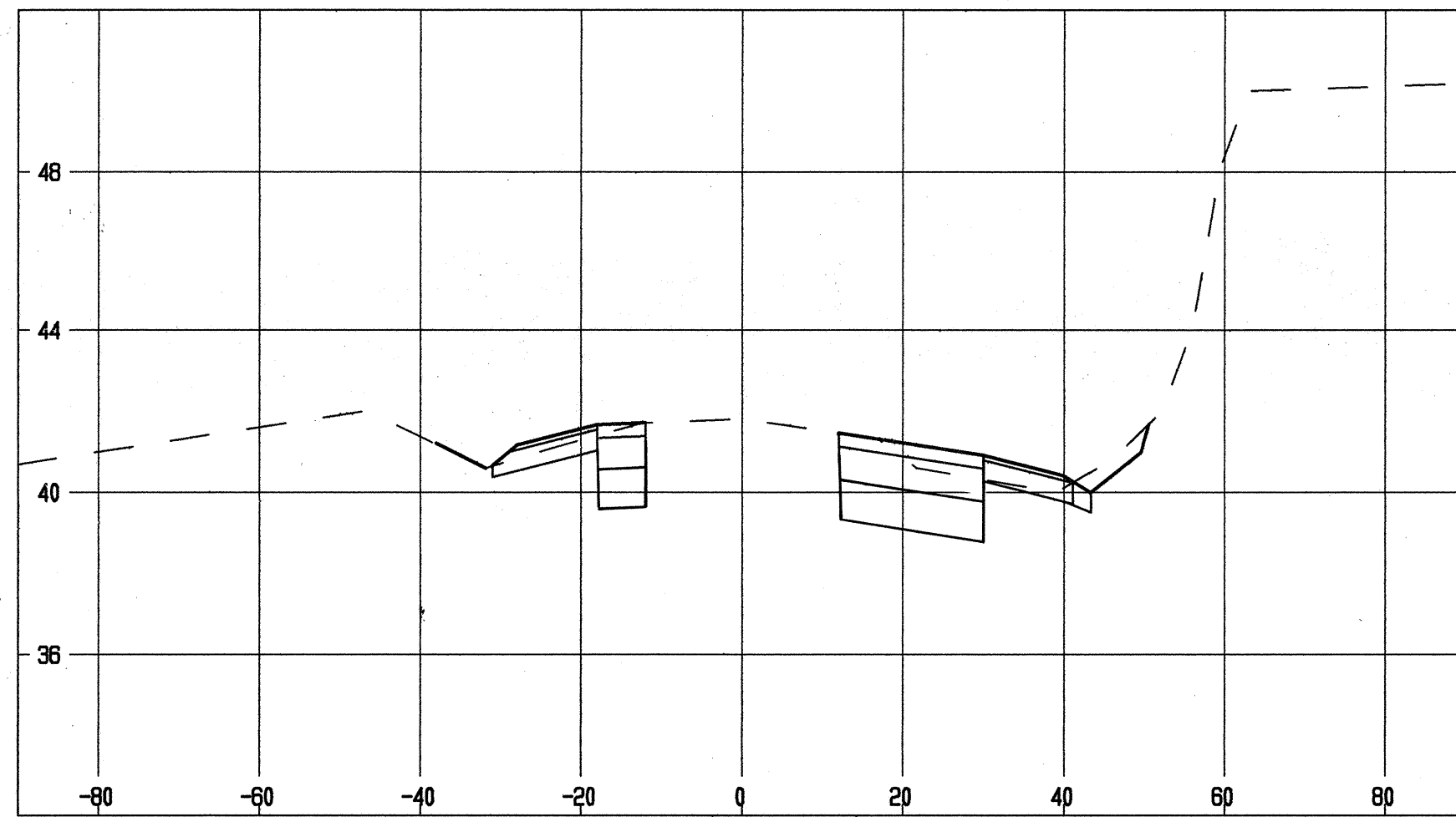
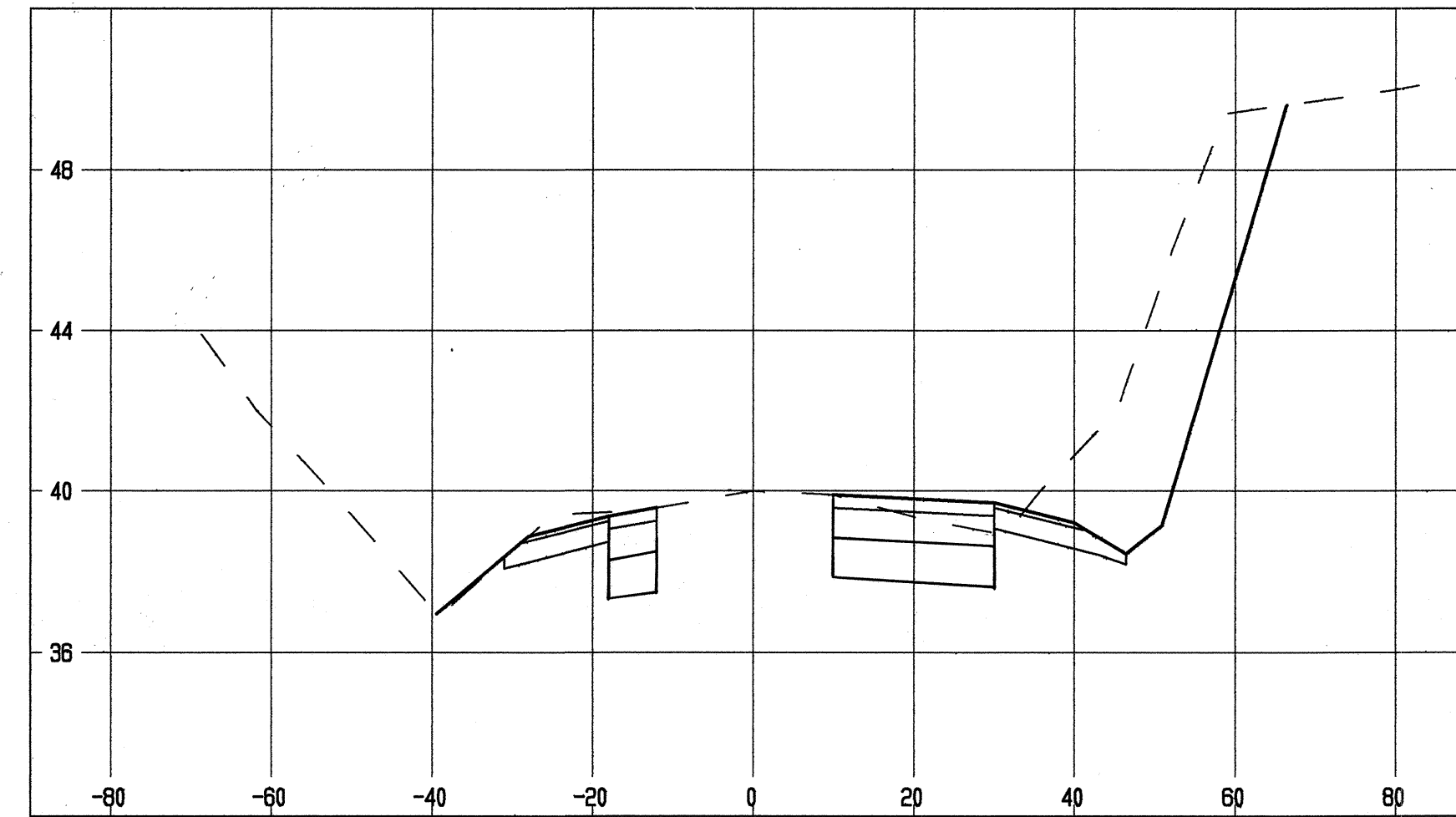
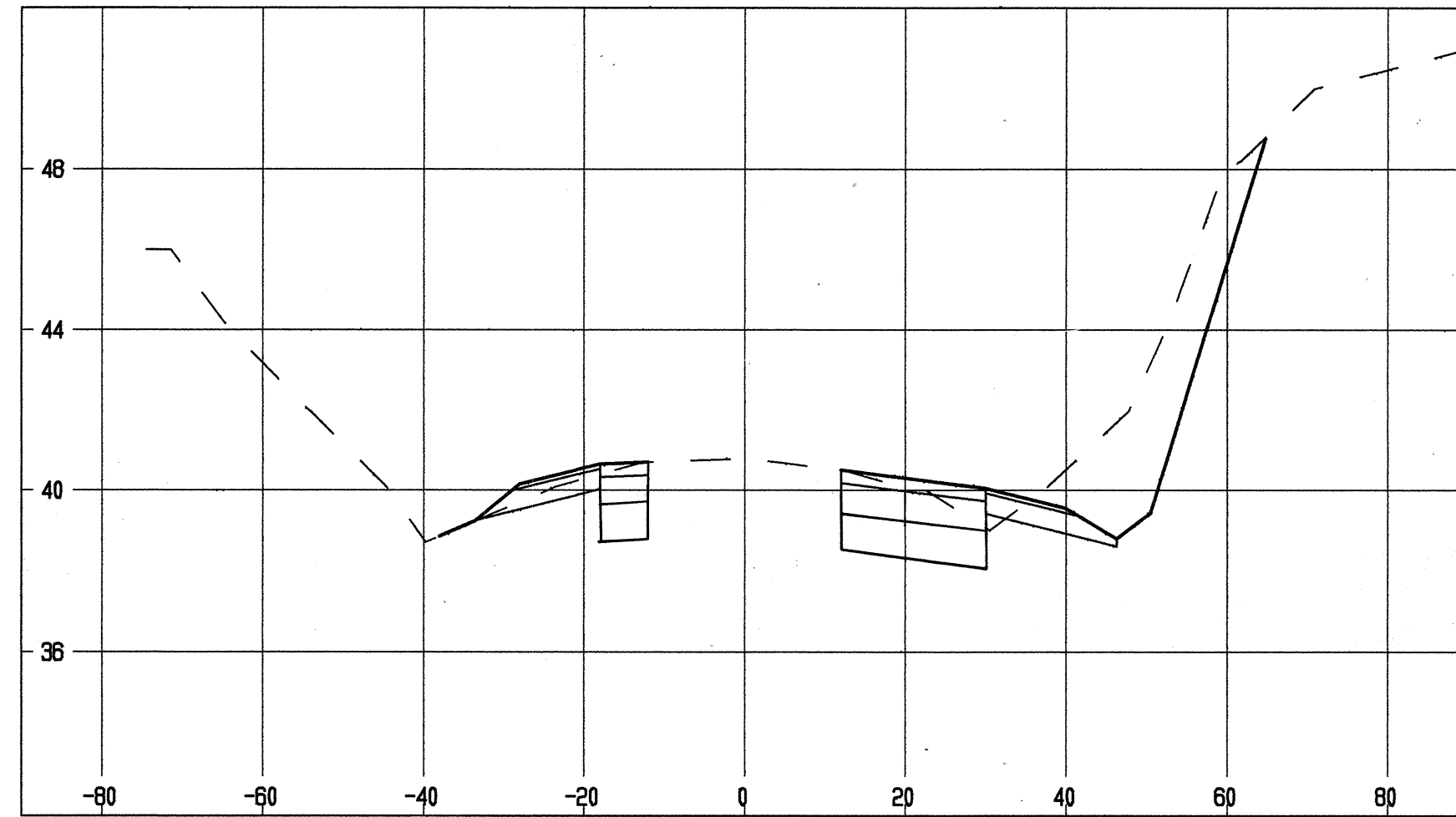
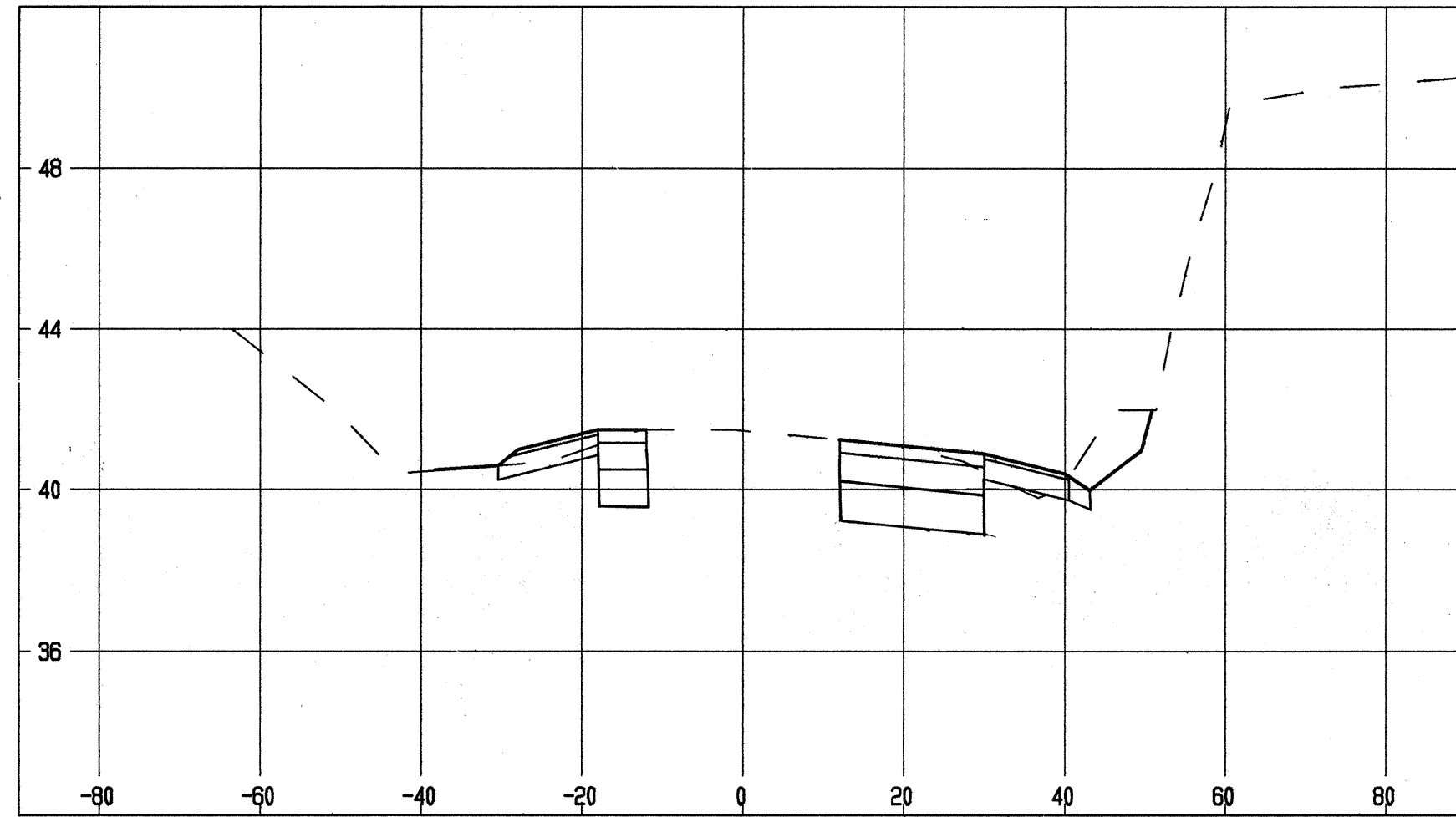
Consultant:

Client:
HOUSING FINANCE AND DEVELOPMENT CORPORATION
STATE OF HAWAII

VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 0+50 TO STA. 4+50

Designed by: CP, RK Date: _____
Drawn by: RK Proj. no.: (BCA)841.0104

Approved: _____
Date: _____



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7-14-92	REVISE SECTIONS	CP	

THIS WORK WAS PREPARED BY ME
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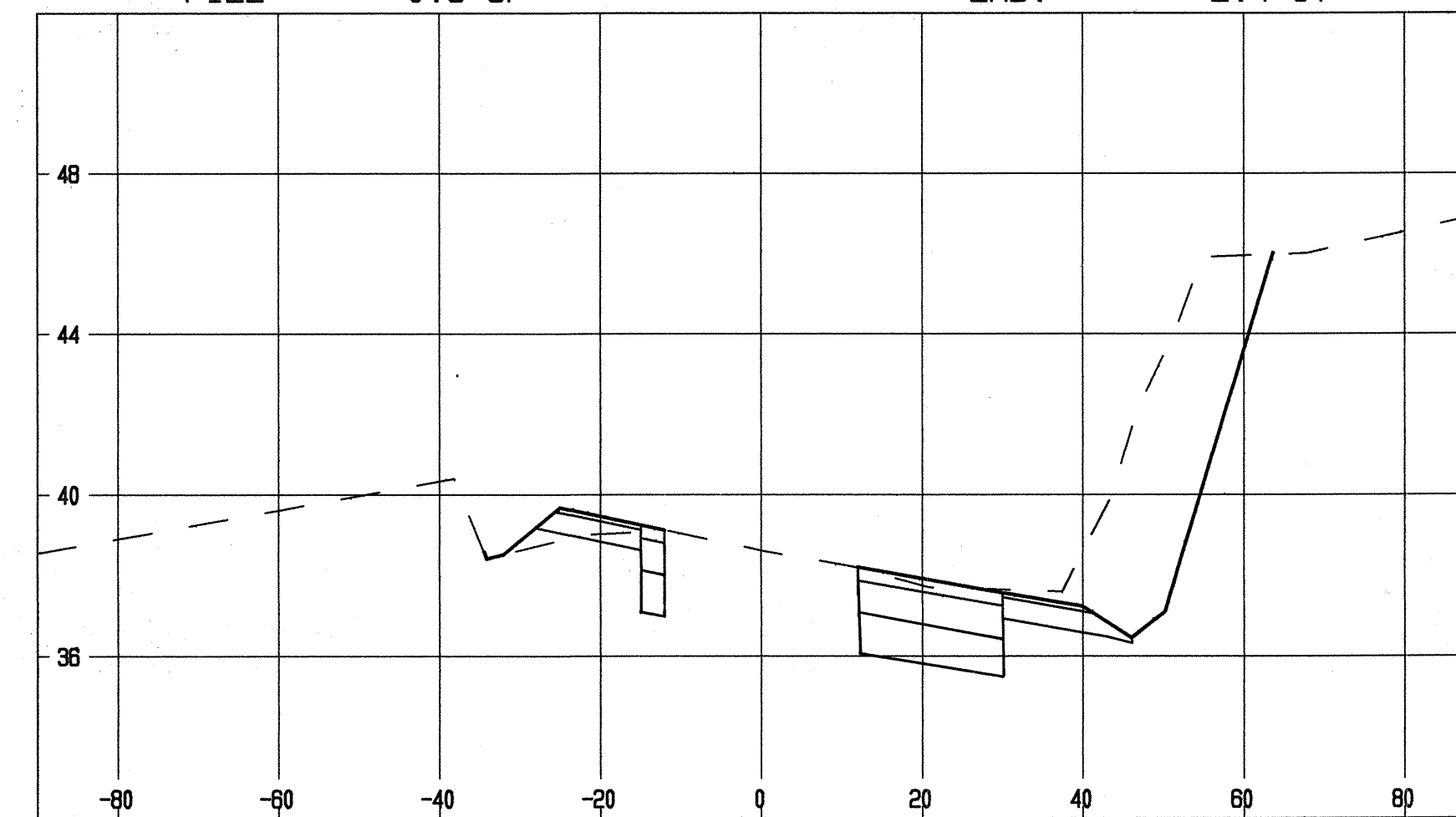
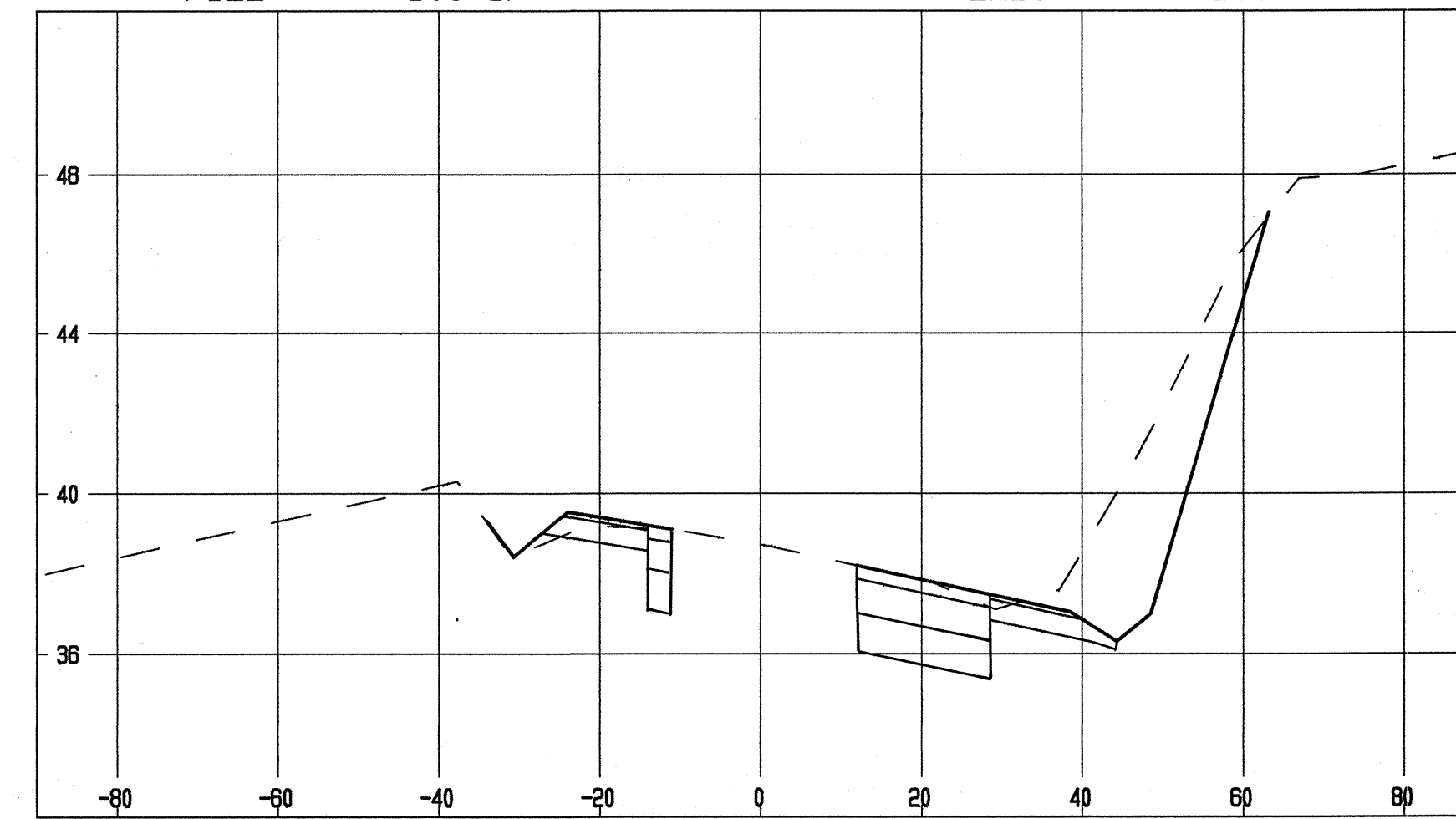
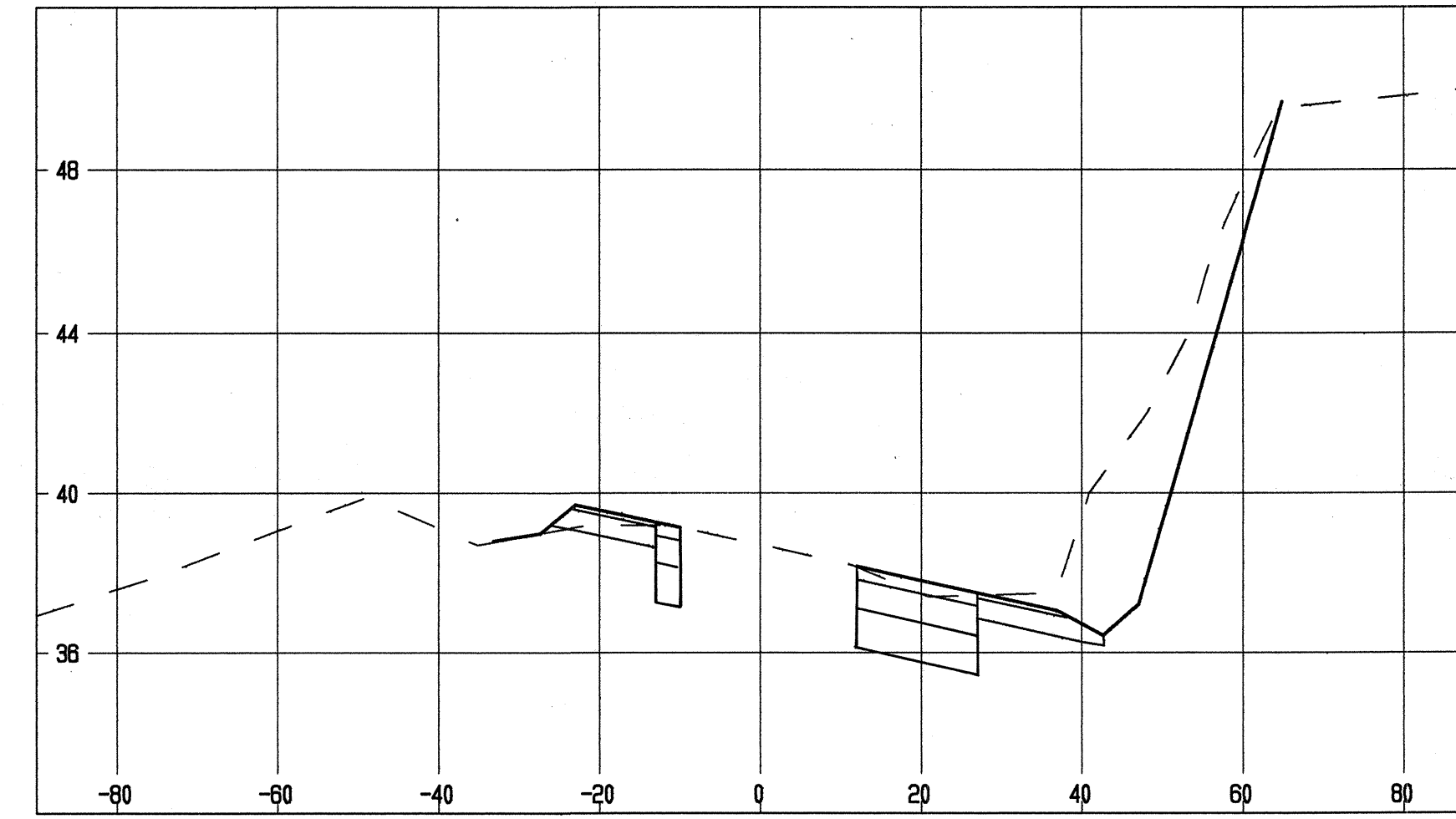
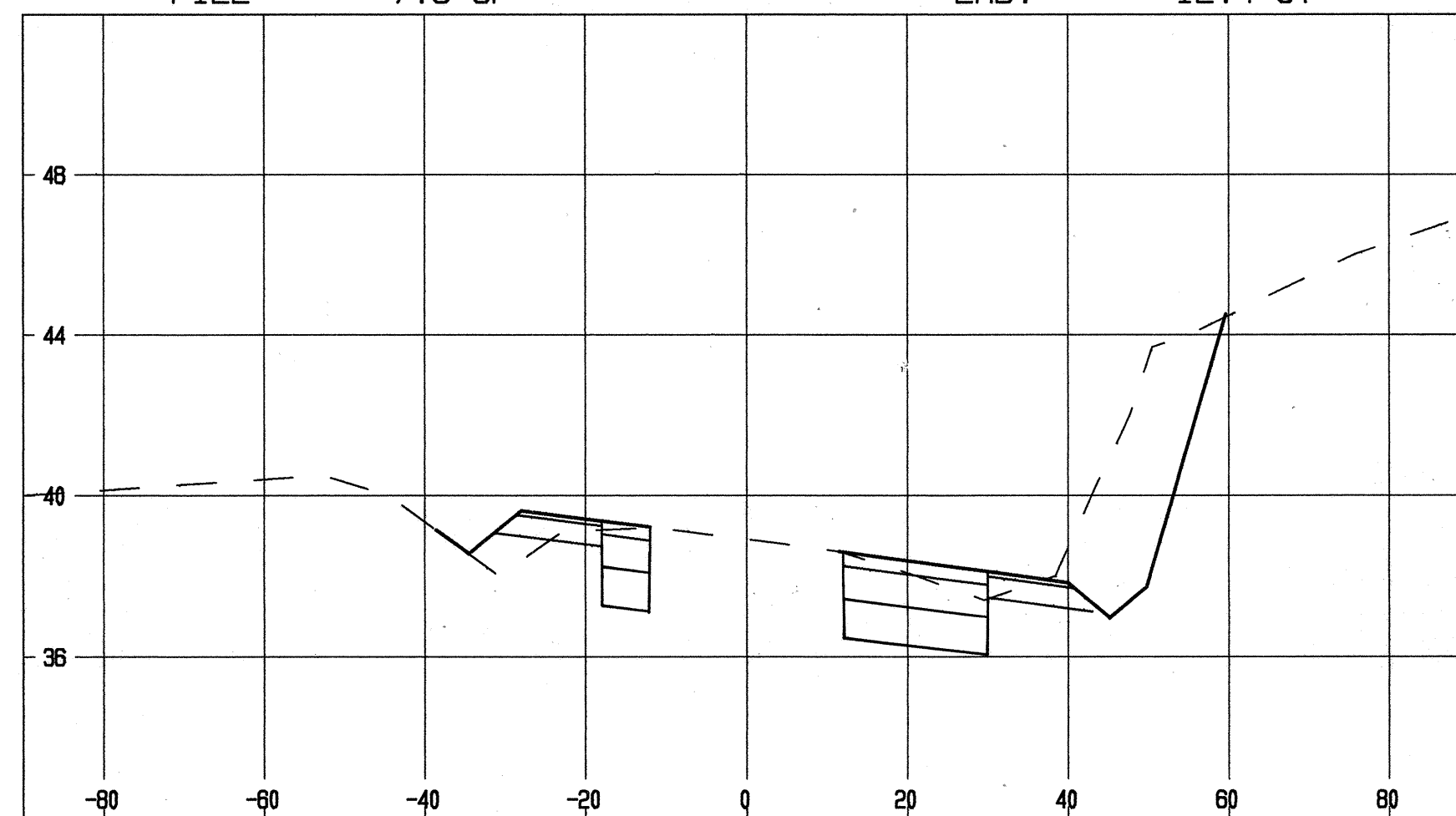
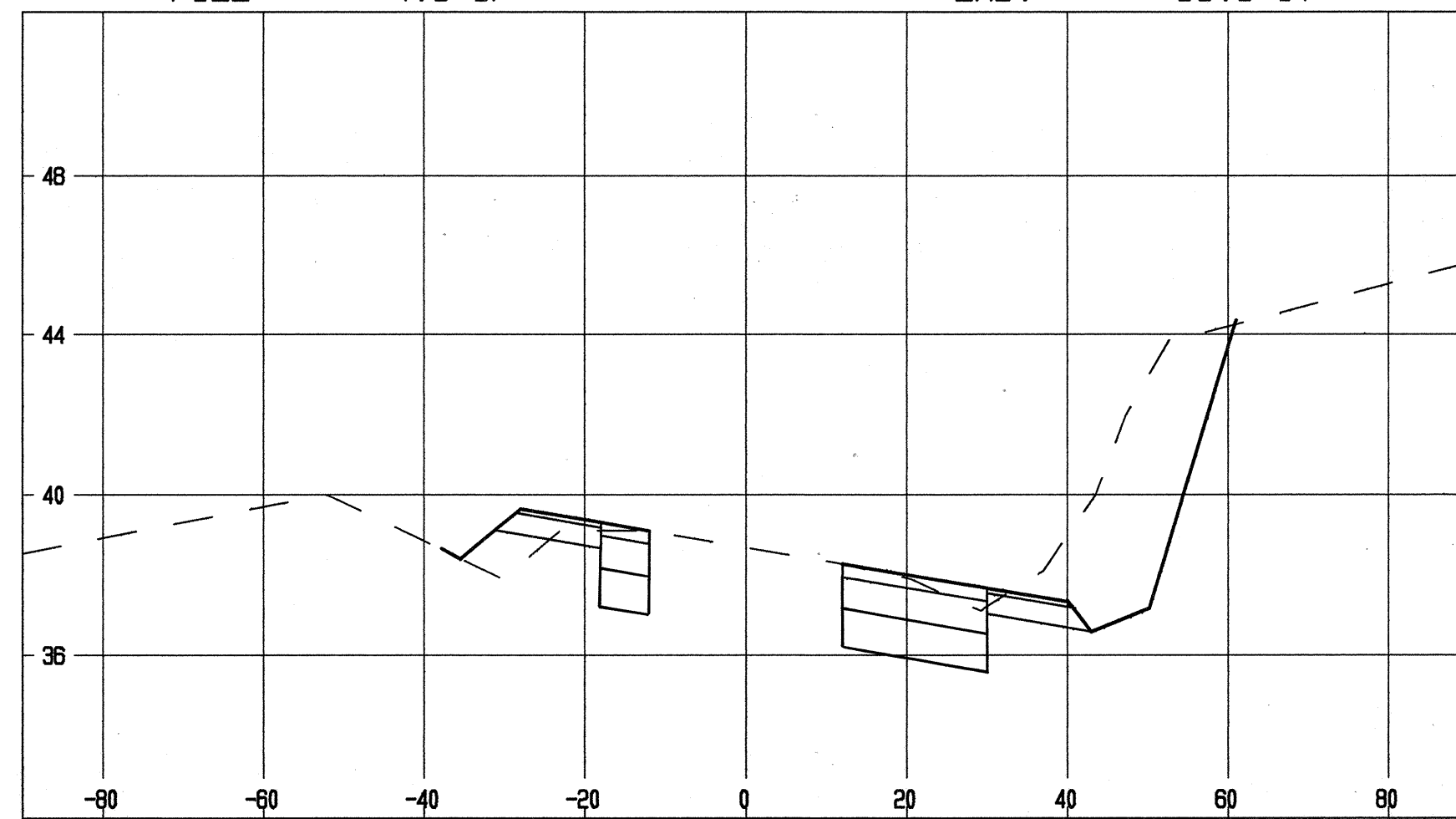
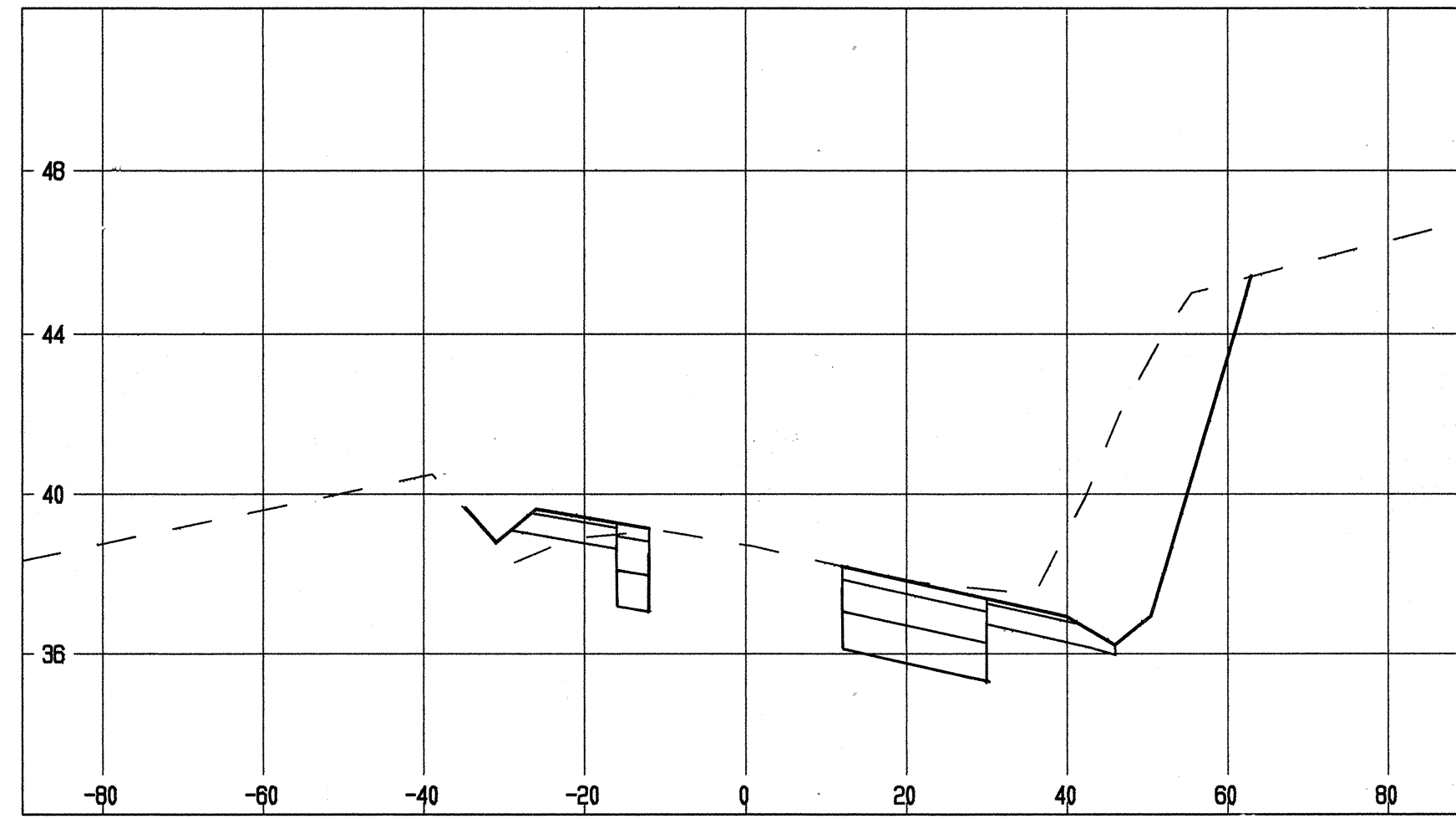
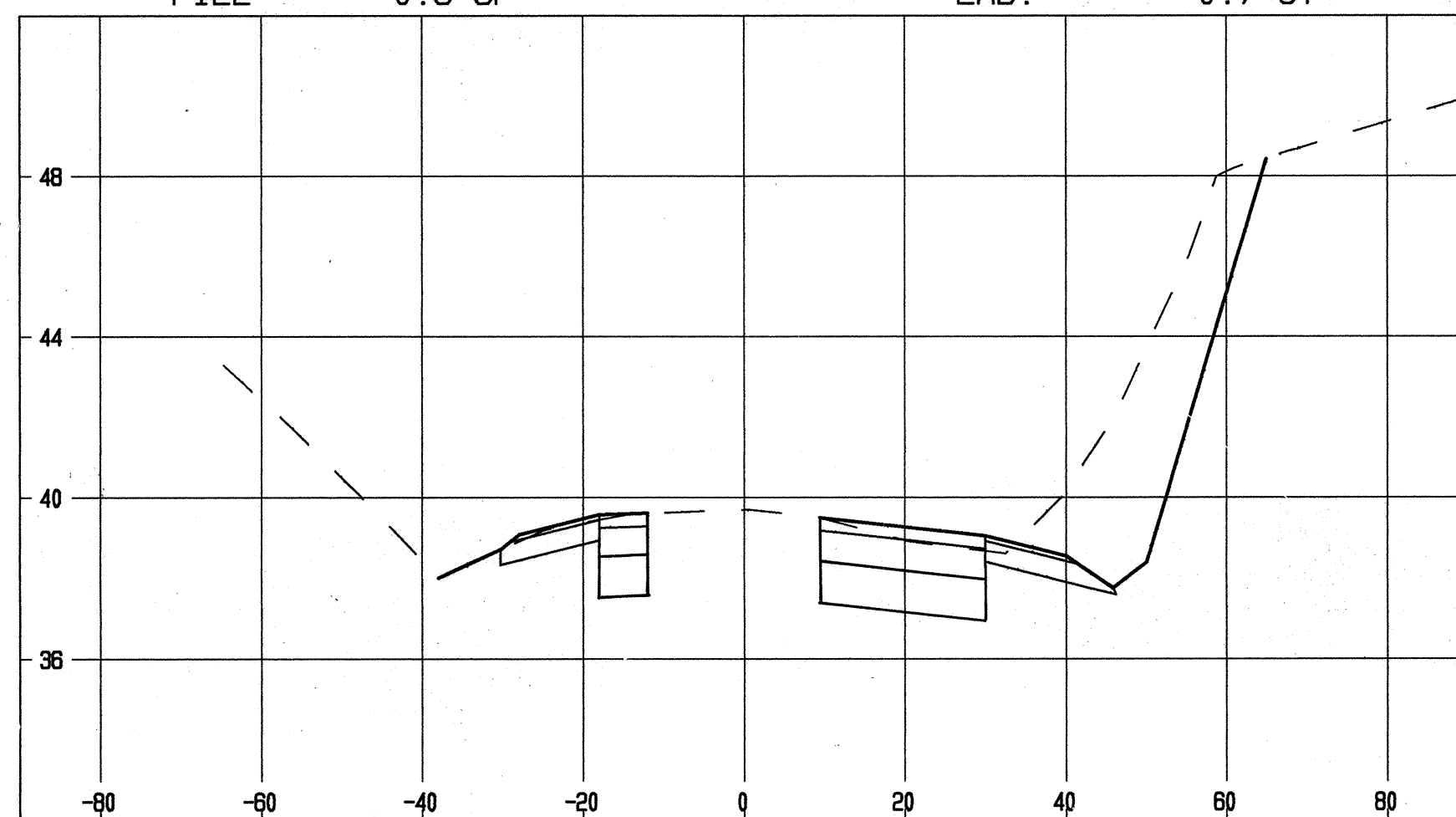
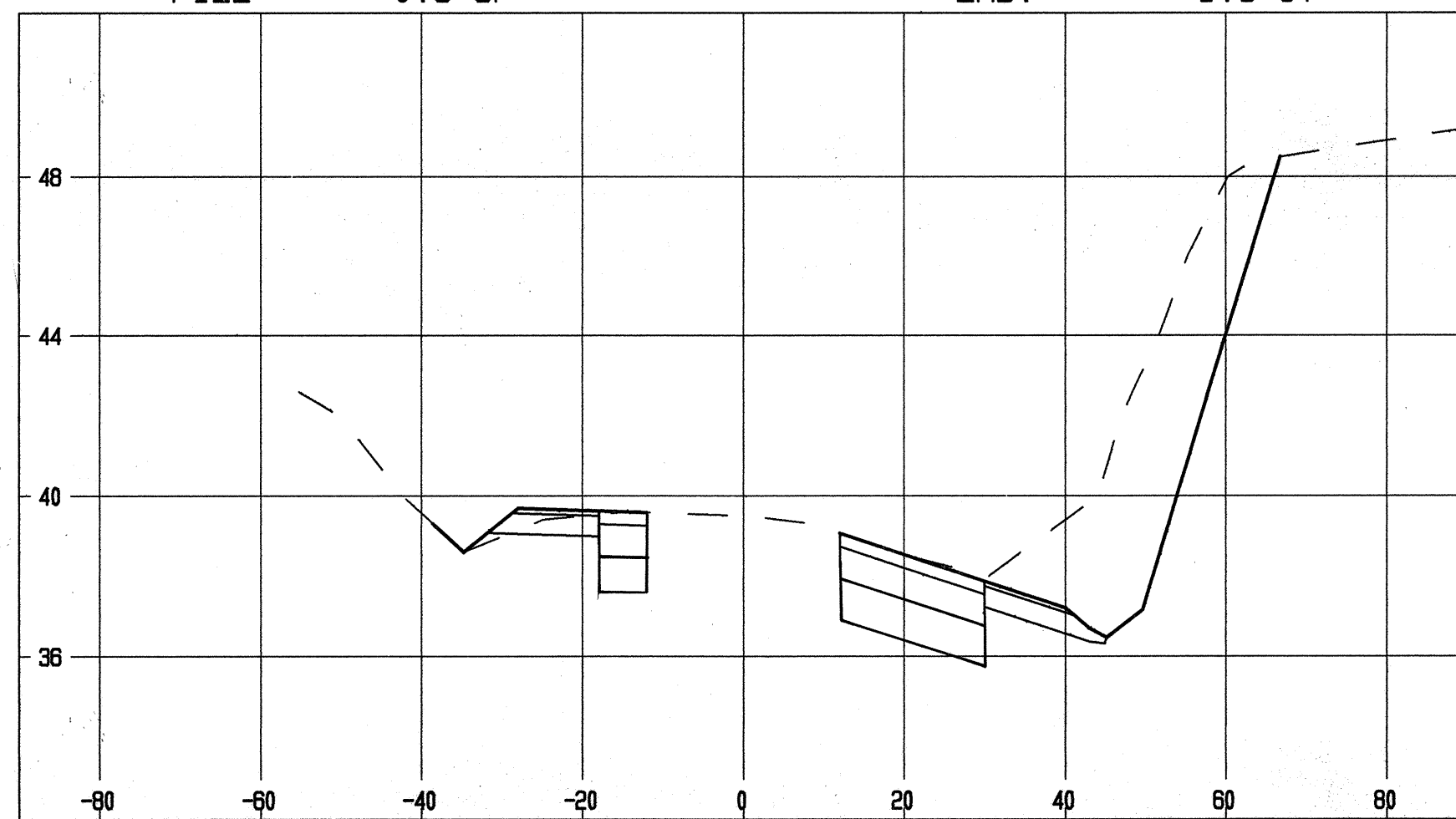
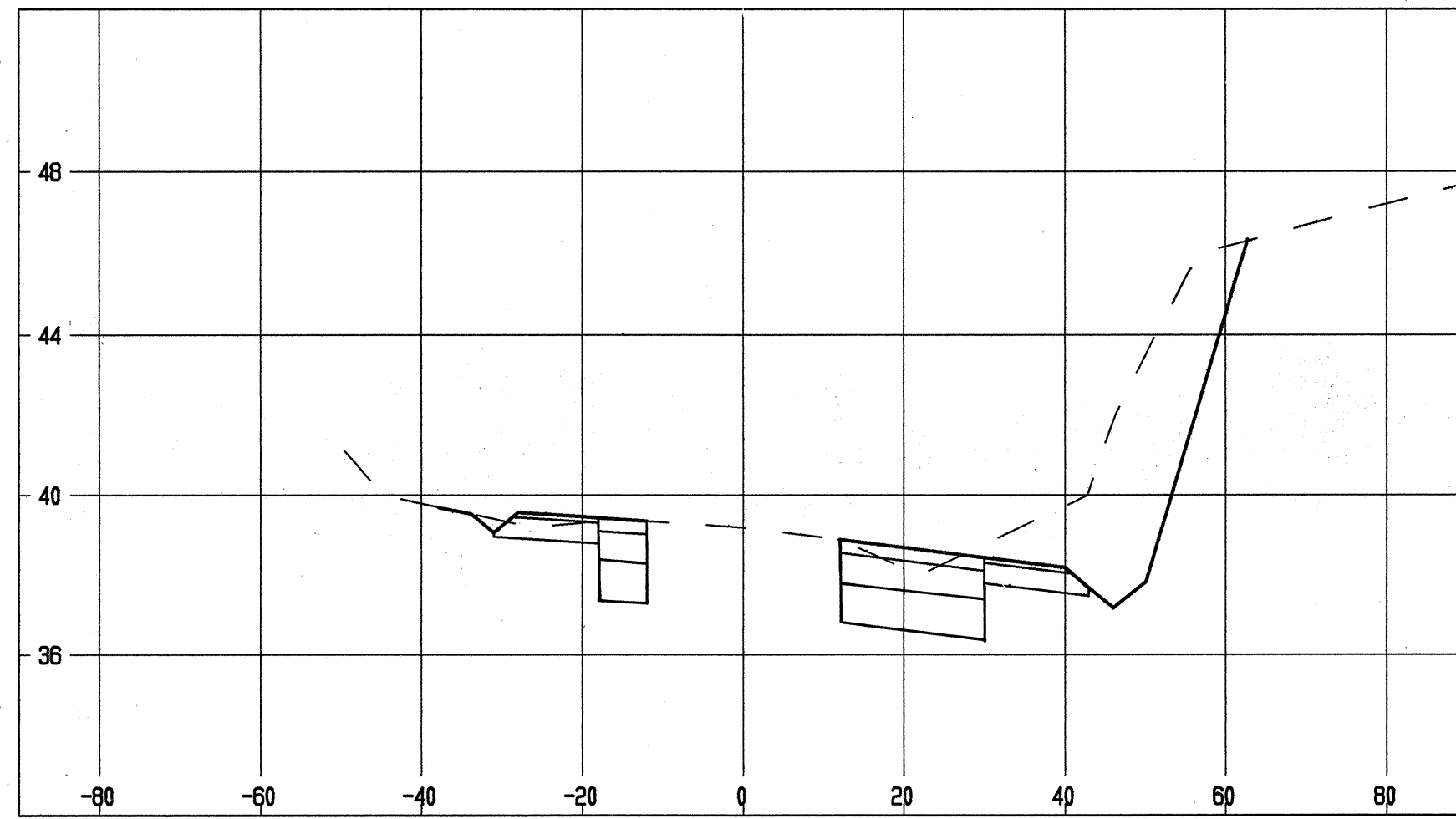
CHERYL M. PALEH
REGISTERED
PROFESSIONAL
ENGINEER
No. 5952-C
HAWAII, U.S.A.

BELT COLLINS & ASSOCIATES
688 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7438474 Fax: (808) 538-7819

Client:
**HOUSING FINANCE AND
DEVELOPMENT CORPORATION**
STATE OF HAWAII

**VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 5+00 TO STA. 9+00**

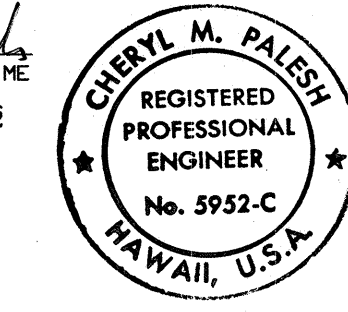
Designed by: CP, RK Date: _____
Drawn by: RK Date: _____
Approved: _____
Date: _____



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
7-14-92		REVISE SECTIONS	CP	

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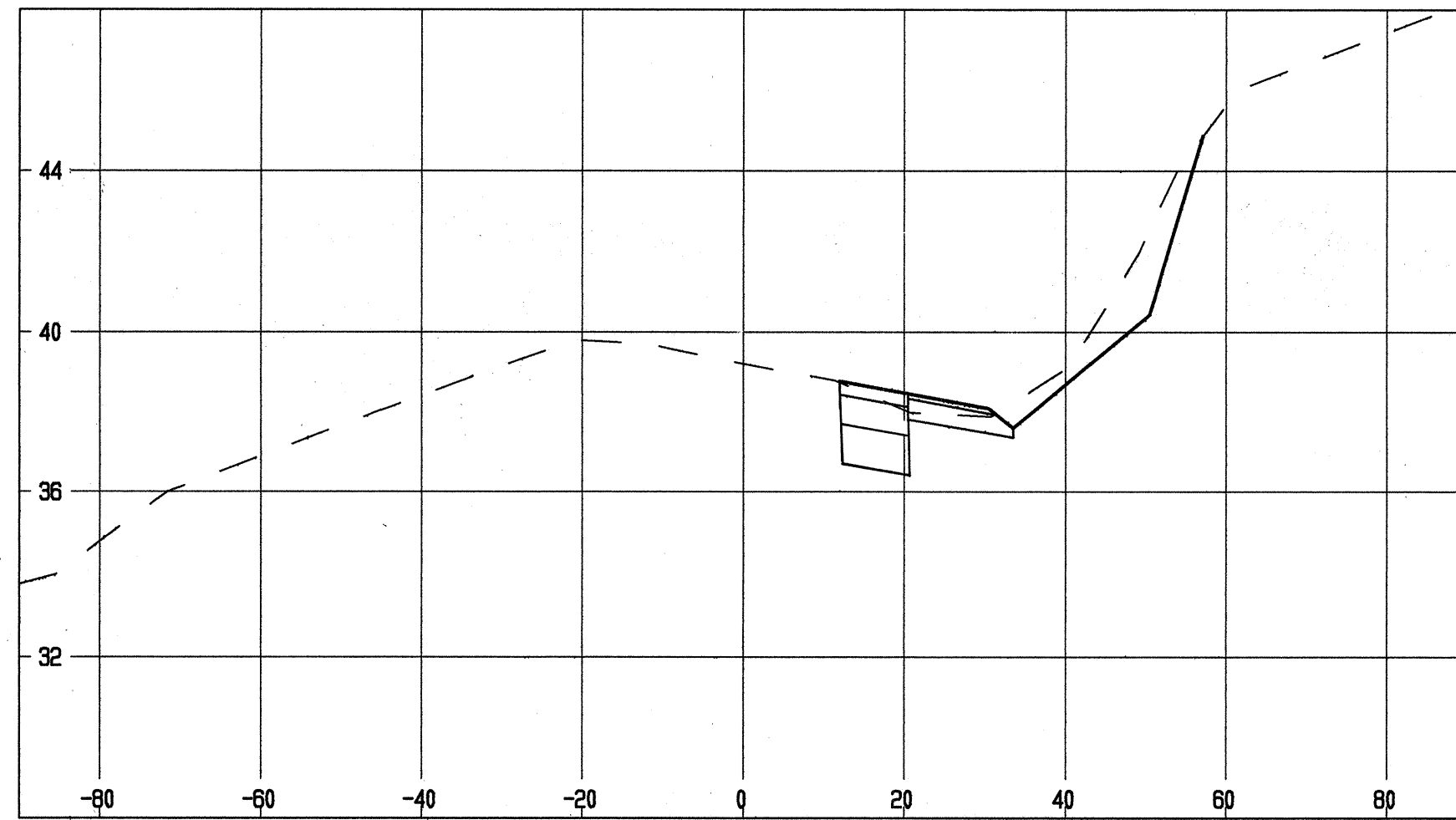
BELT COLLINS & ASSOCIATES
680 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
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VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 9+50 TO STA. 13+50

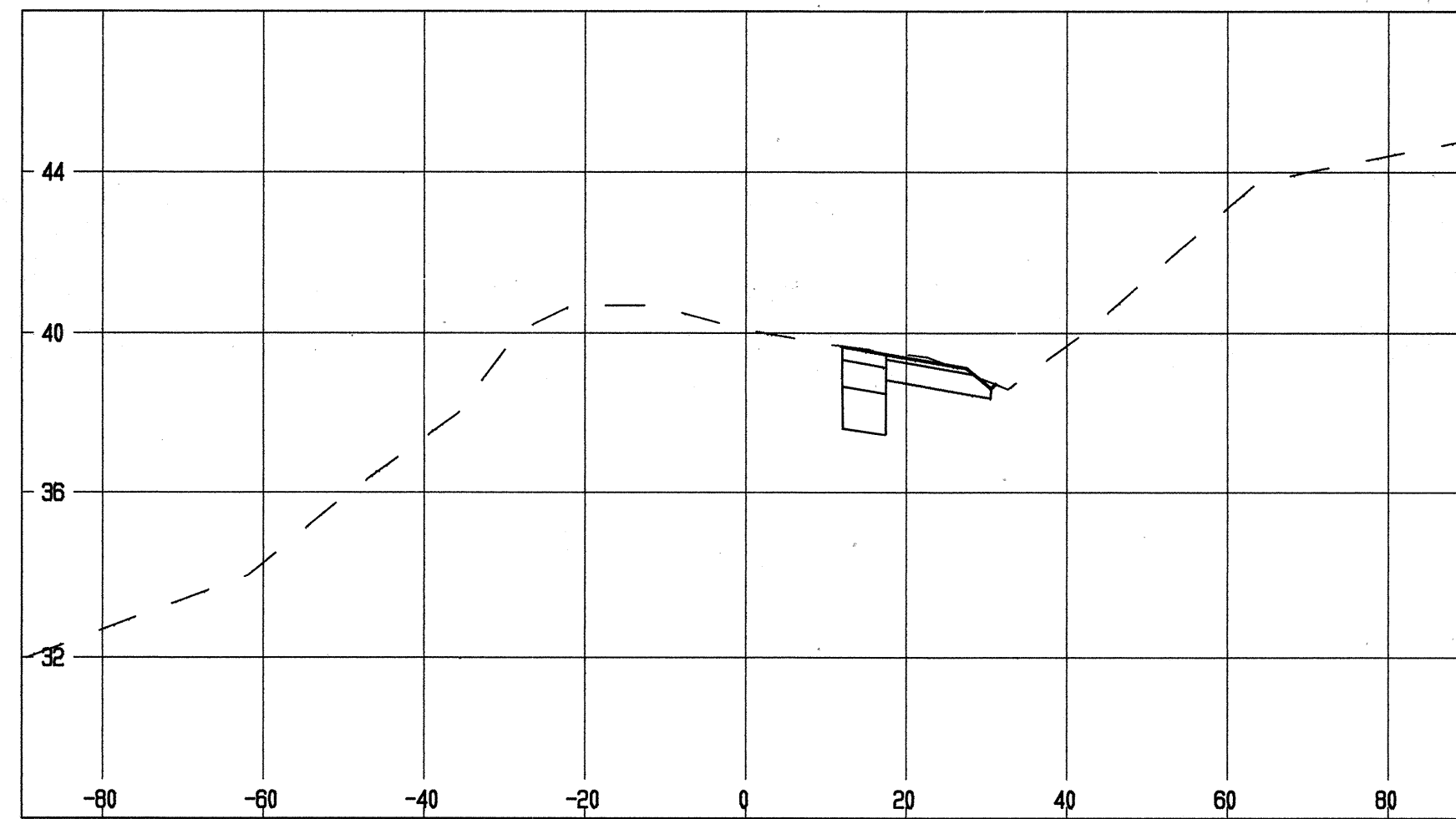
Designed by: CP, RK Date: _____
Drawn by: RK Proj. no.: (BCA)841.0104

Approved: _____
Date: _____



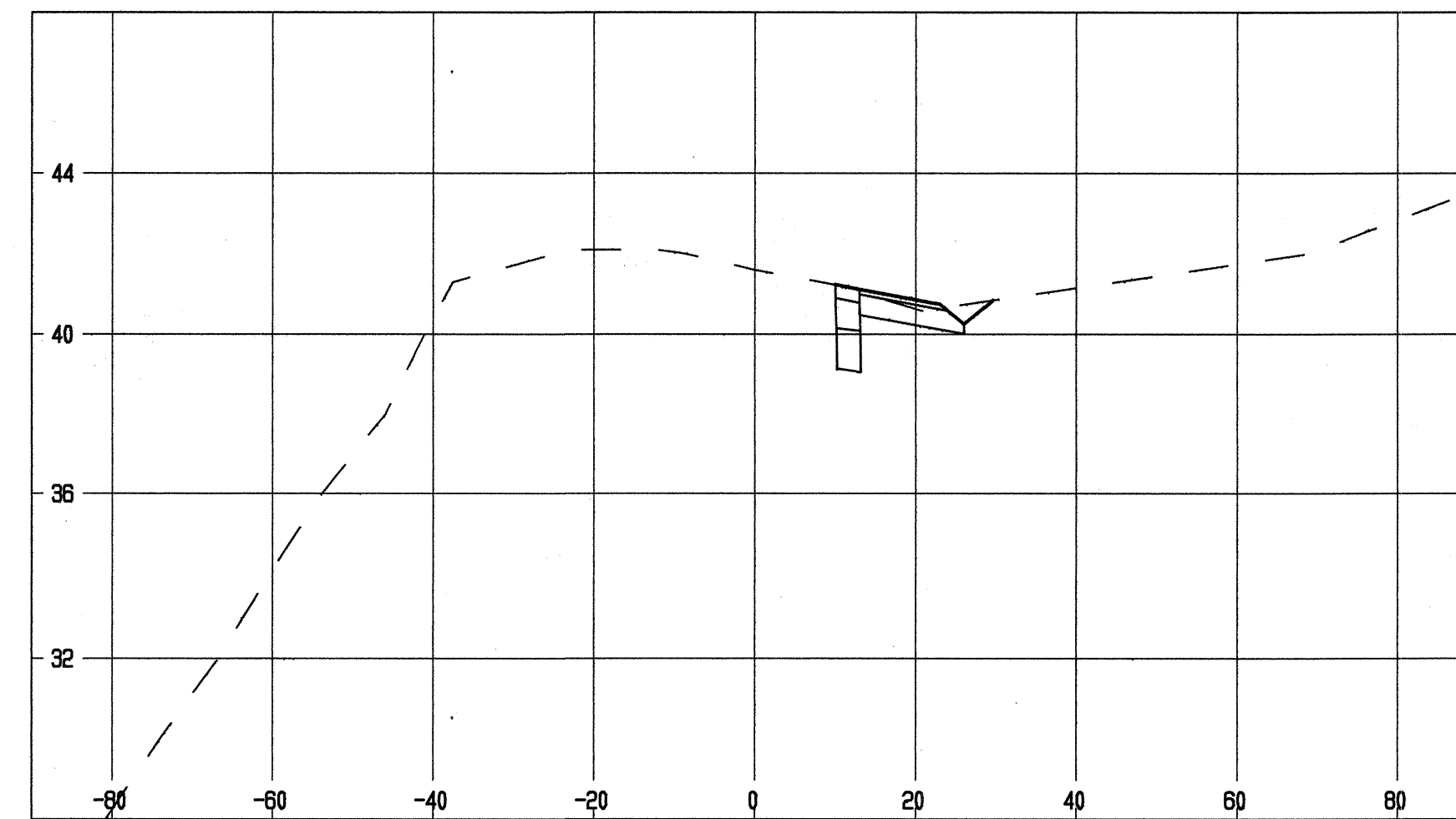
CUT = 41.8 SF
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EXC. = 137.3 CY
EMB. = 0.0 CY

15+00



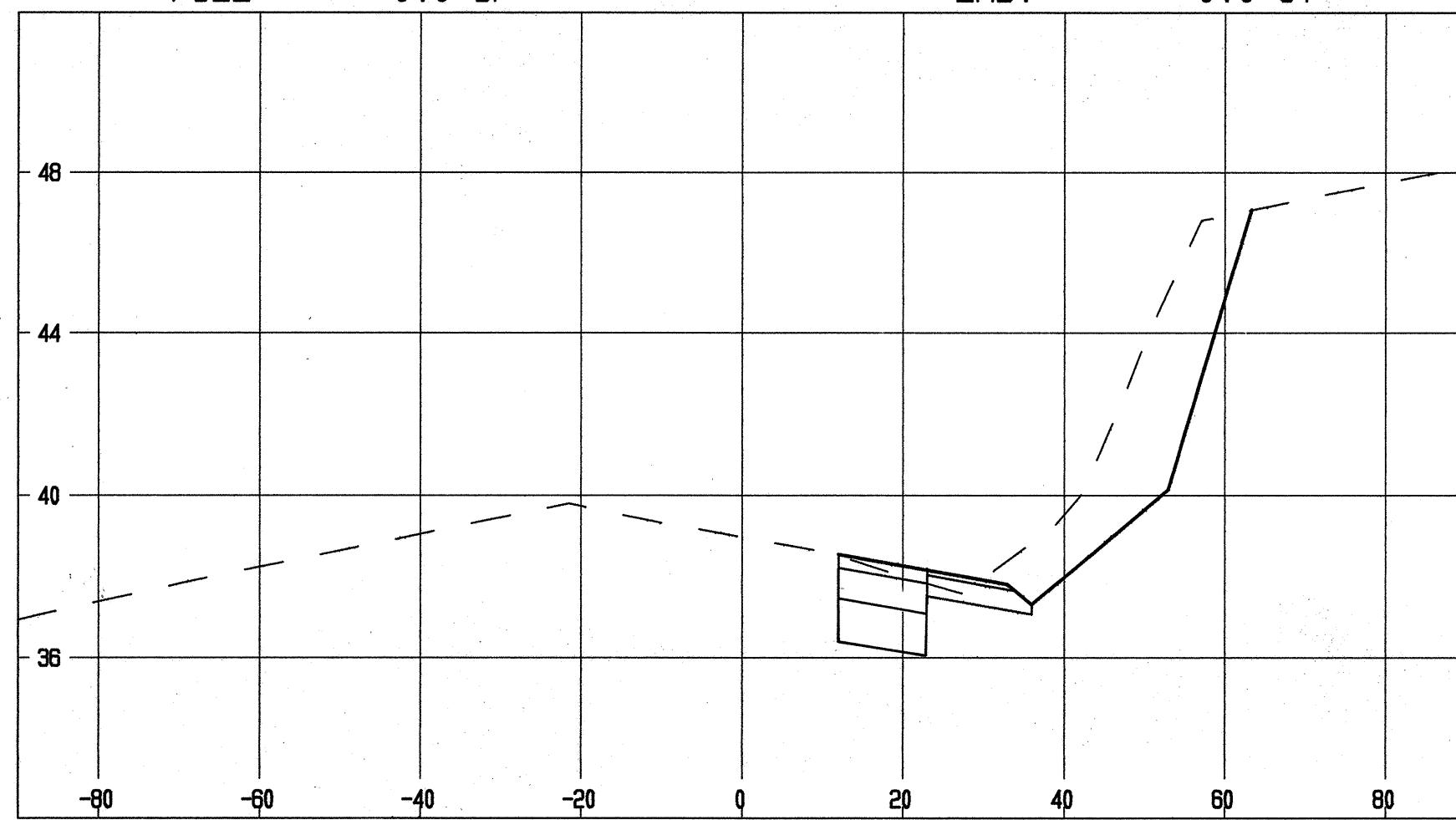
CUT = 20.2 SF
FILL = 0.0 SF
EXC. = 36.6 CY
EMB. = 0.0 CY

16+50



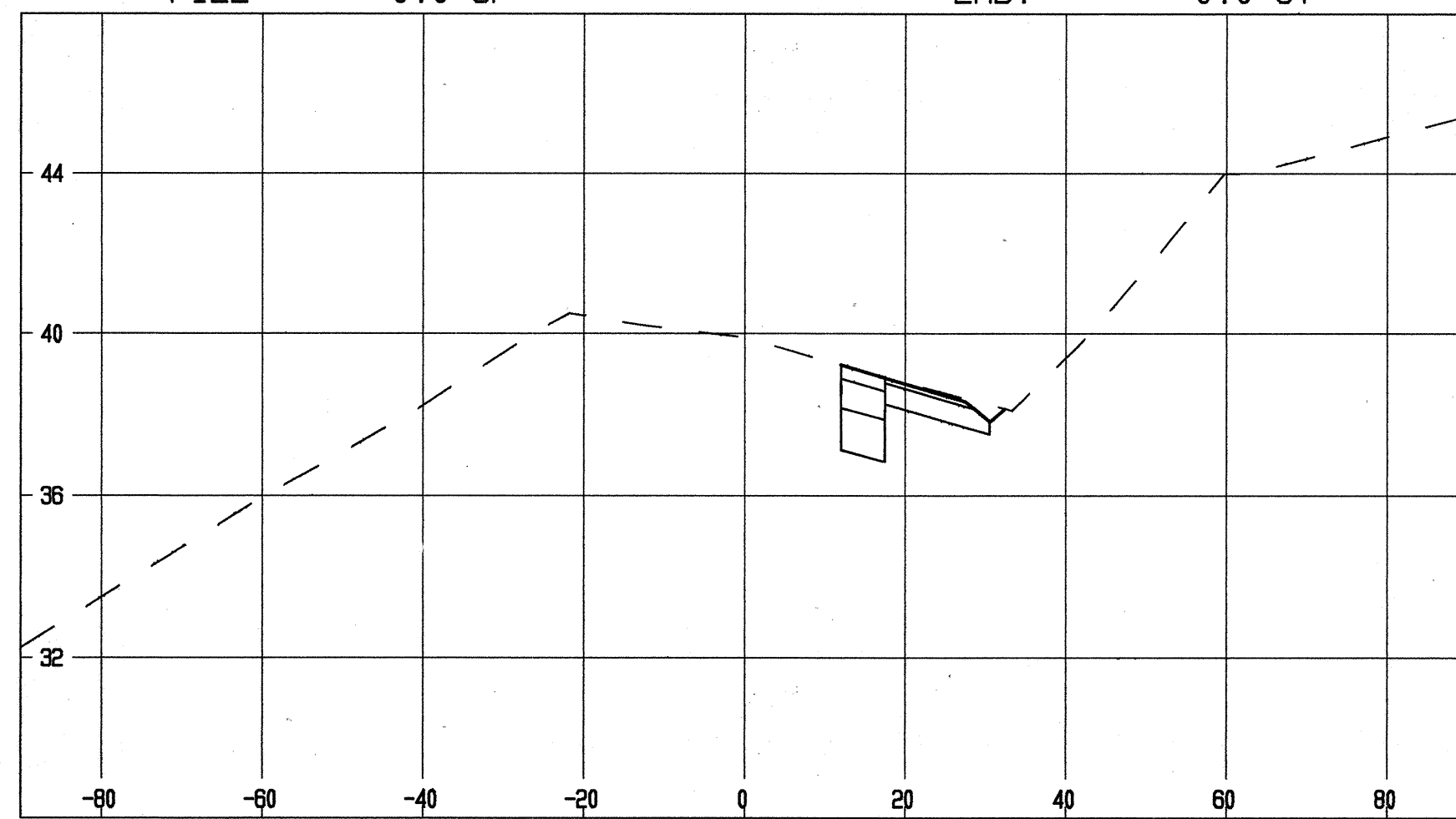
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FILL = 0.0 SF
EXC. = 30.6 CY
EMB. = 0.0 CY

18+00



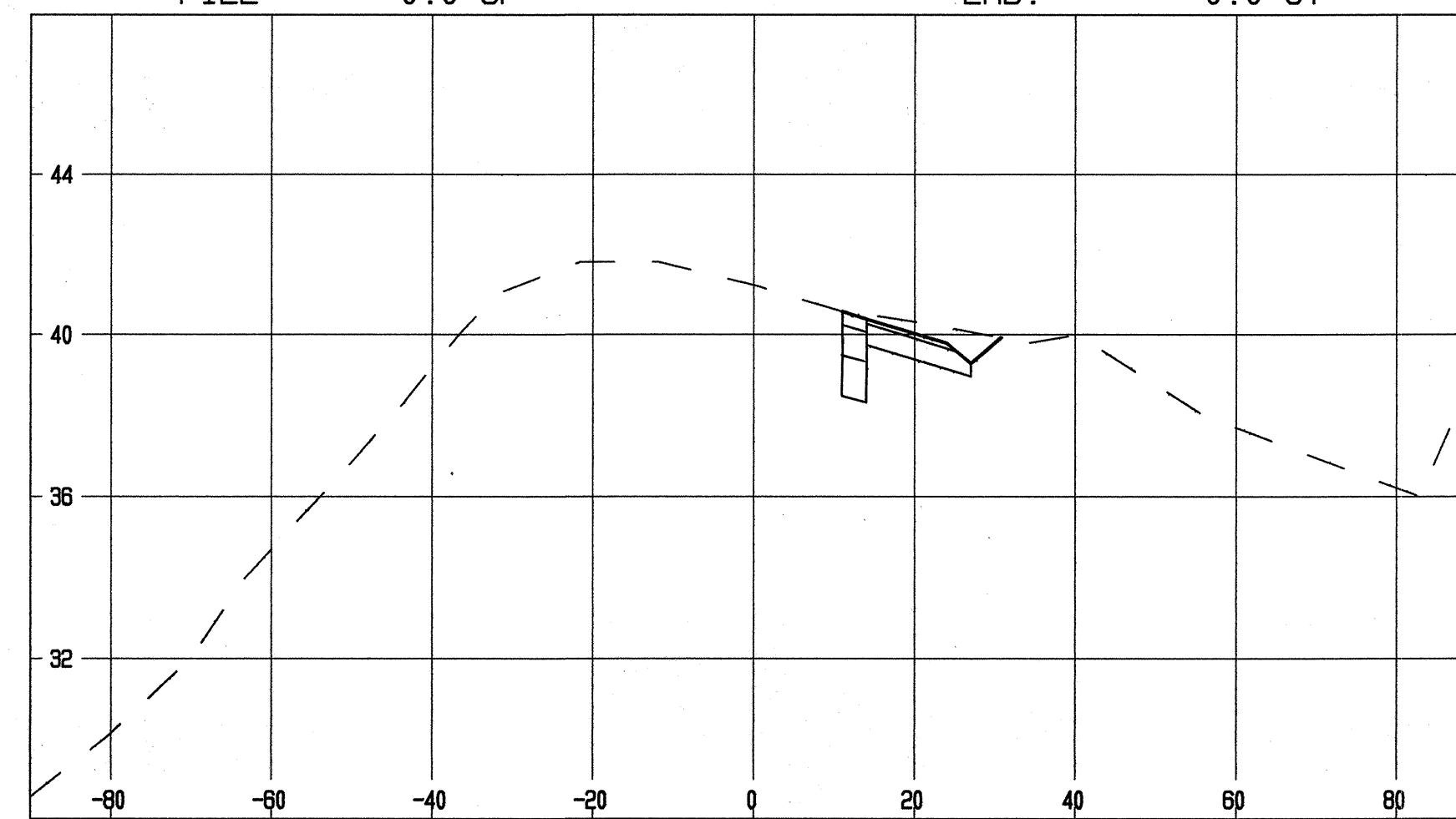
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EXC. = 224.7 CY
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14+50



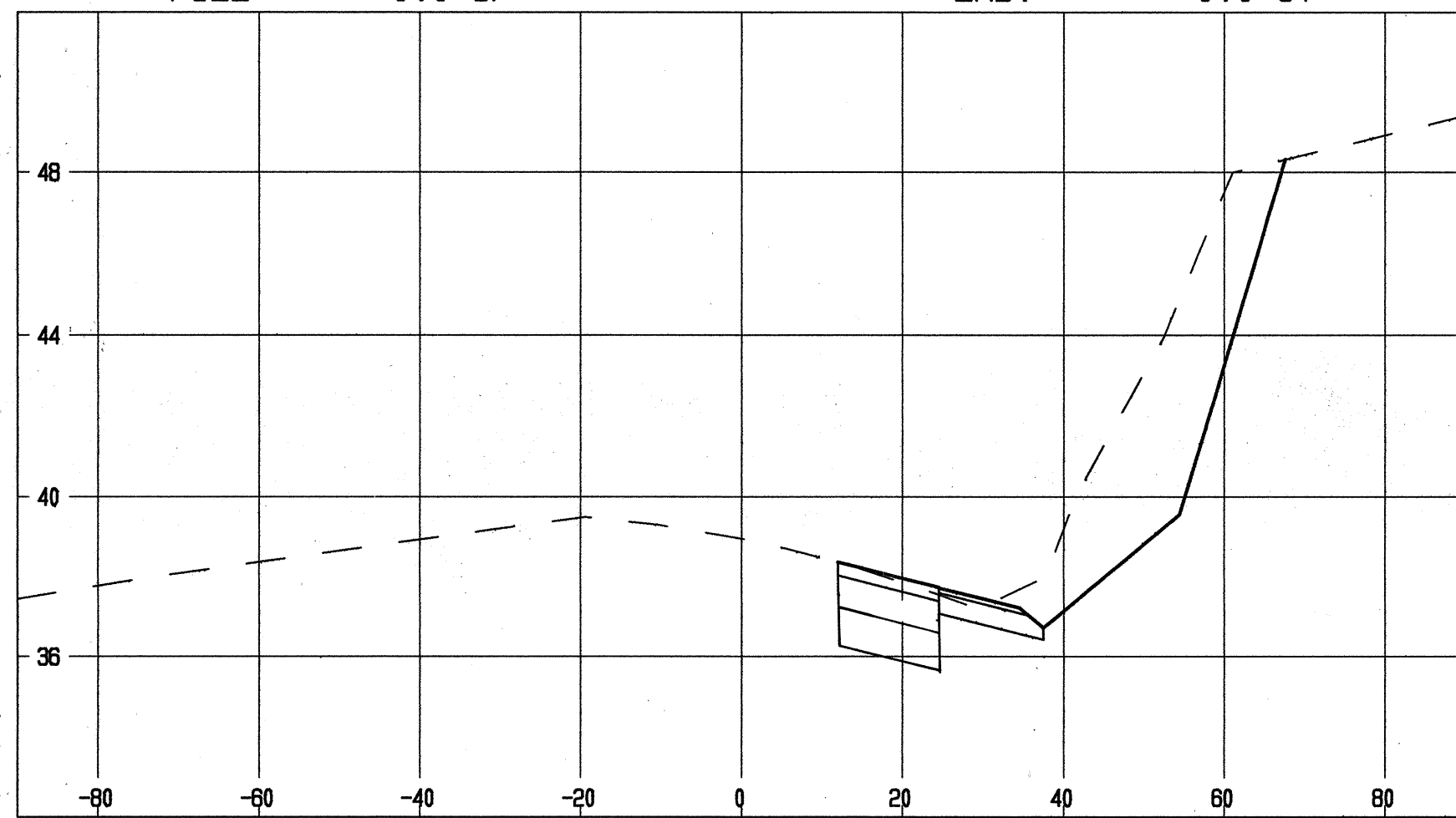
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FILL = 0.0 SF
EXC. = 35.7 CY
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16+00



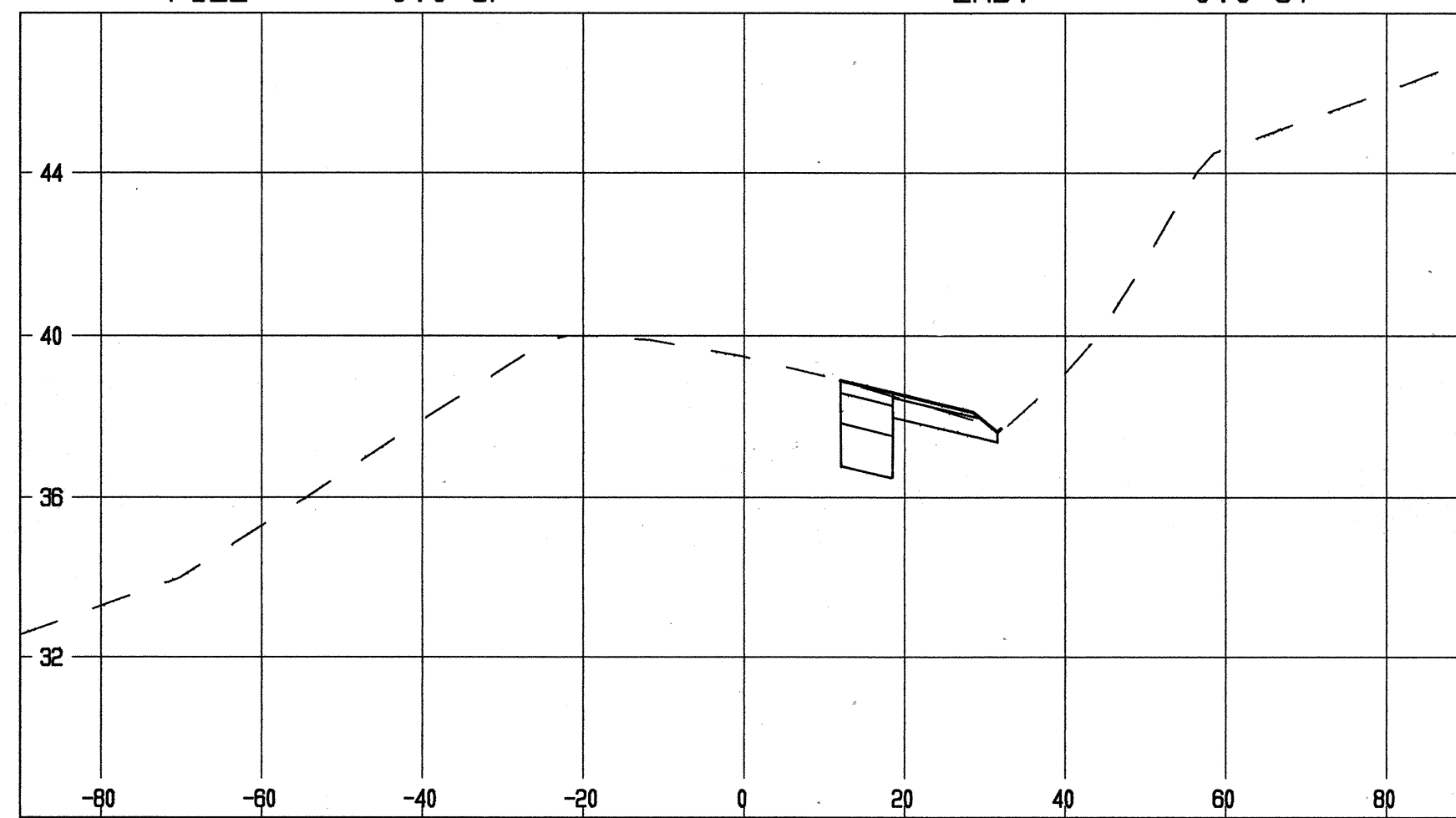
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EXC. = 33.9 CY
EMB. = 0.0 CY

17+50



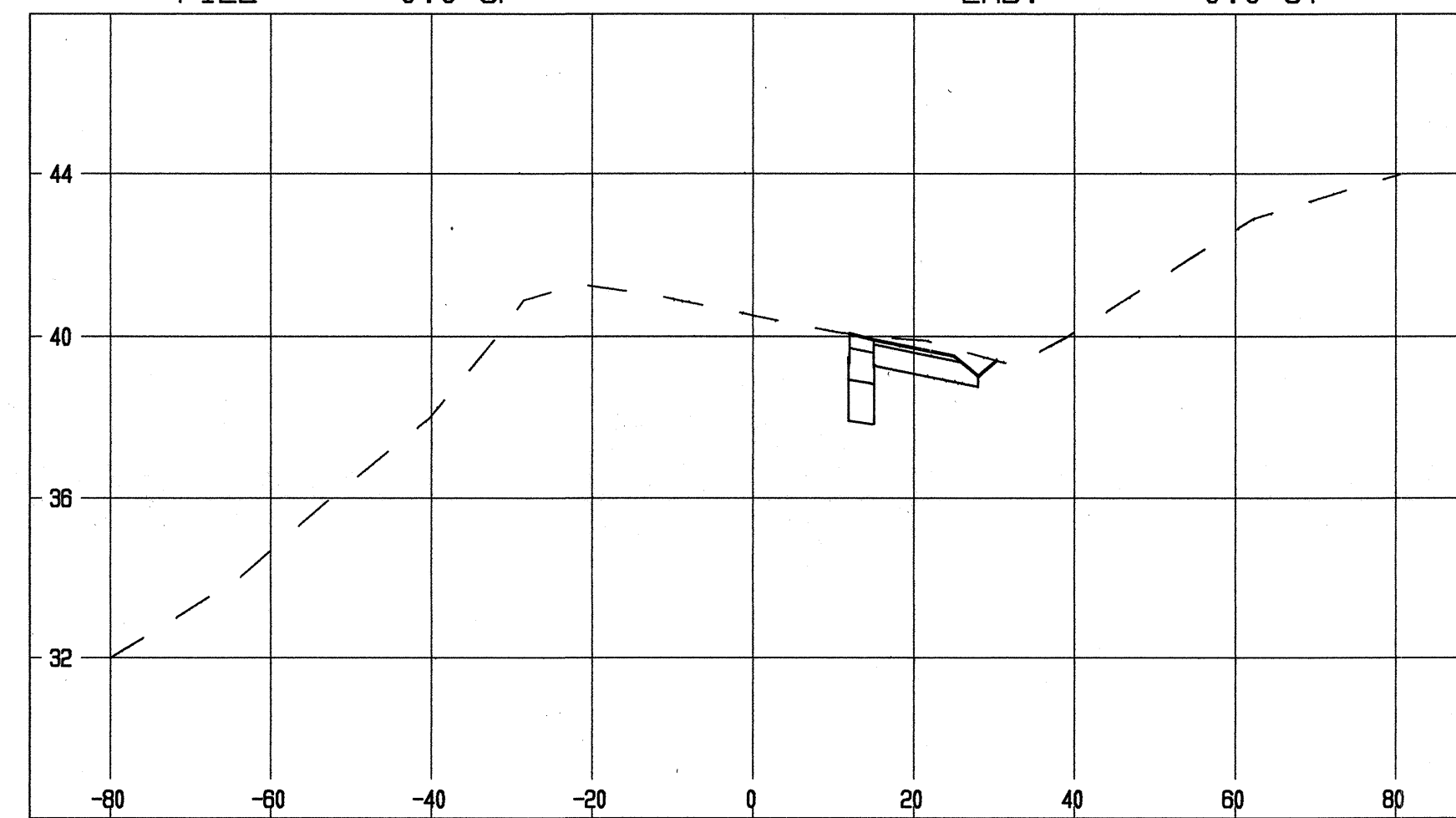
CUT = 136.2 SF
FILL = 0.0 SF
EXC. = 237.7 CY
EMB. = 0.9 CY

14+00



CUT = 19.3 SF
FILL = 0.0 SF
EXC. = 56.6 CY
EMB. = 0.0 CY

15+50



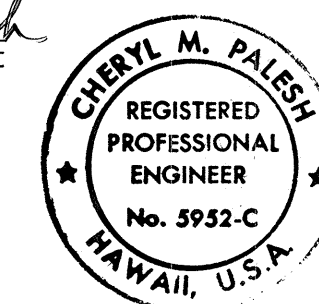
CUT = 16.6 SF
FILL = 0.0 SF
EXC. = 34.1 CY
EMB. = 0.0 CY

17+00

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7-14-92	REVISE SECTIONS	CP	

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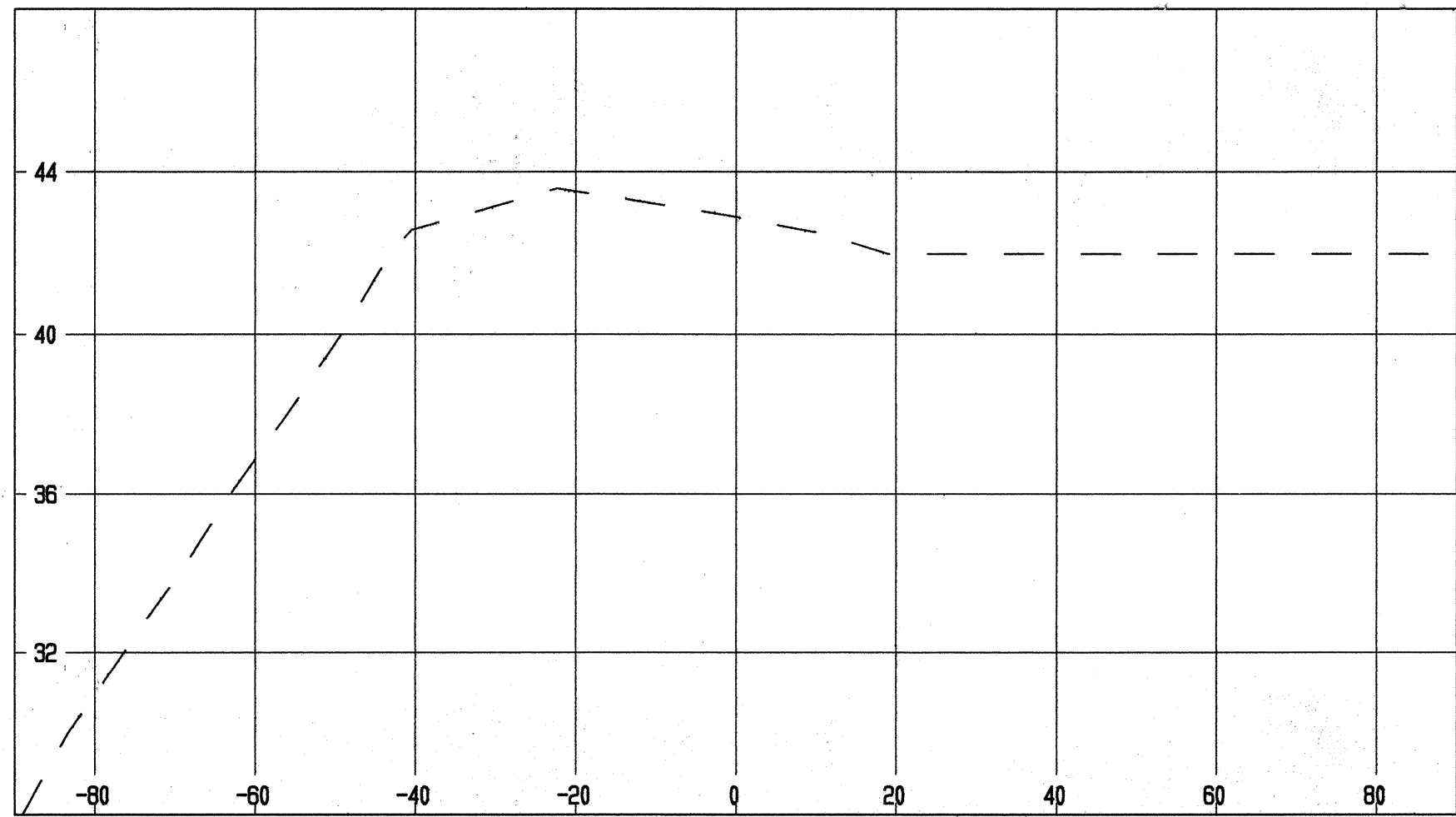
BELT COLLINS & ASSOCIATES
680 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5351 Telex: BELTH 7438474 Fax: (808) 538-7819

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STATE OF HAWAII**

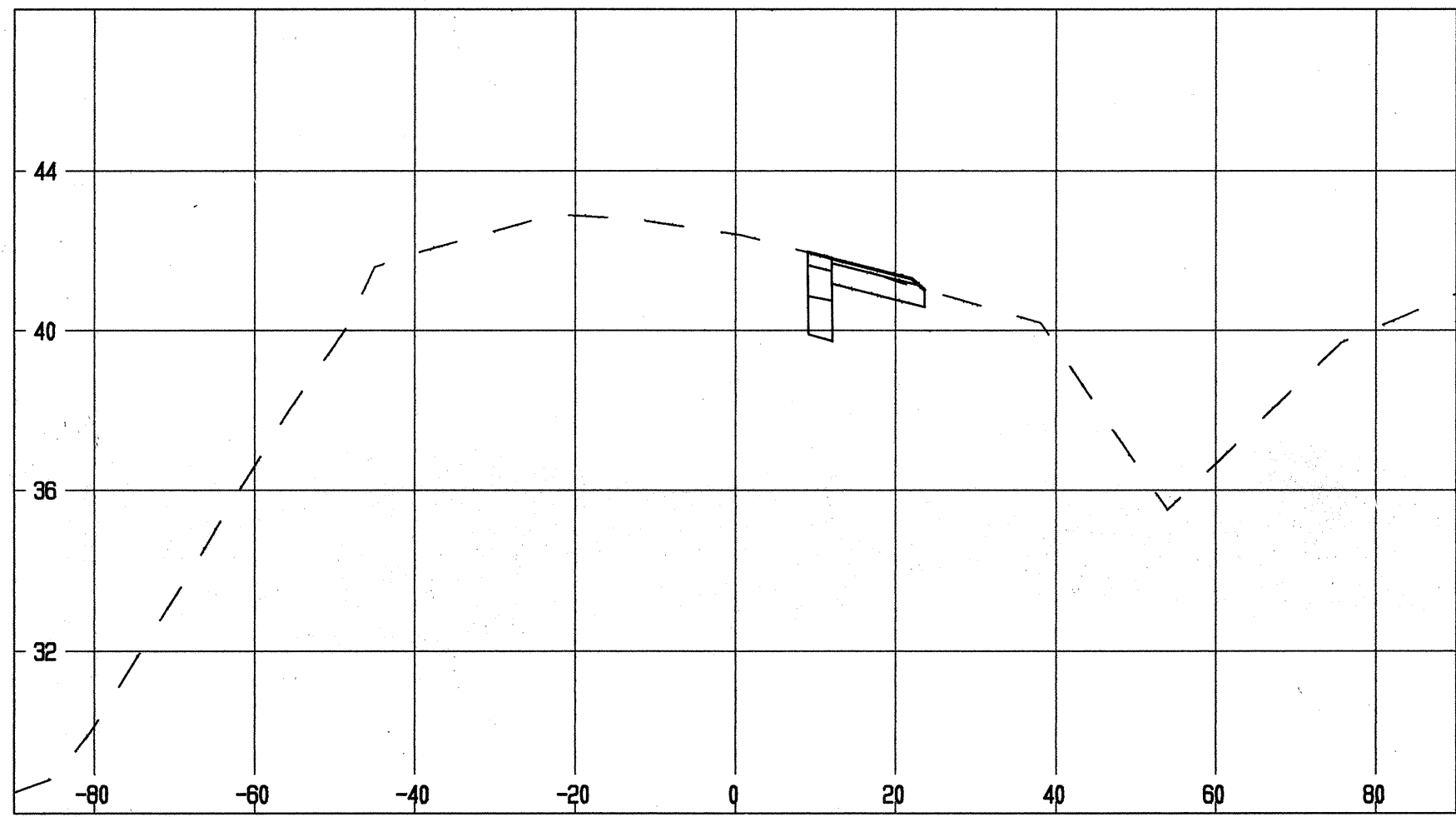
**VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 14+00 TO STA. 18+00**

Designed by: CP, RK Date: _____
Drawn by: AK Proj. no.: (BCA) 841.0104

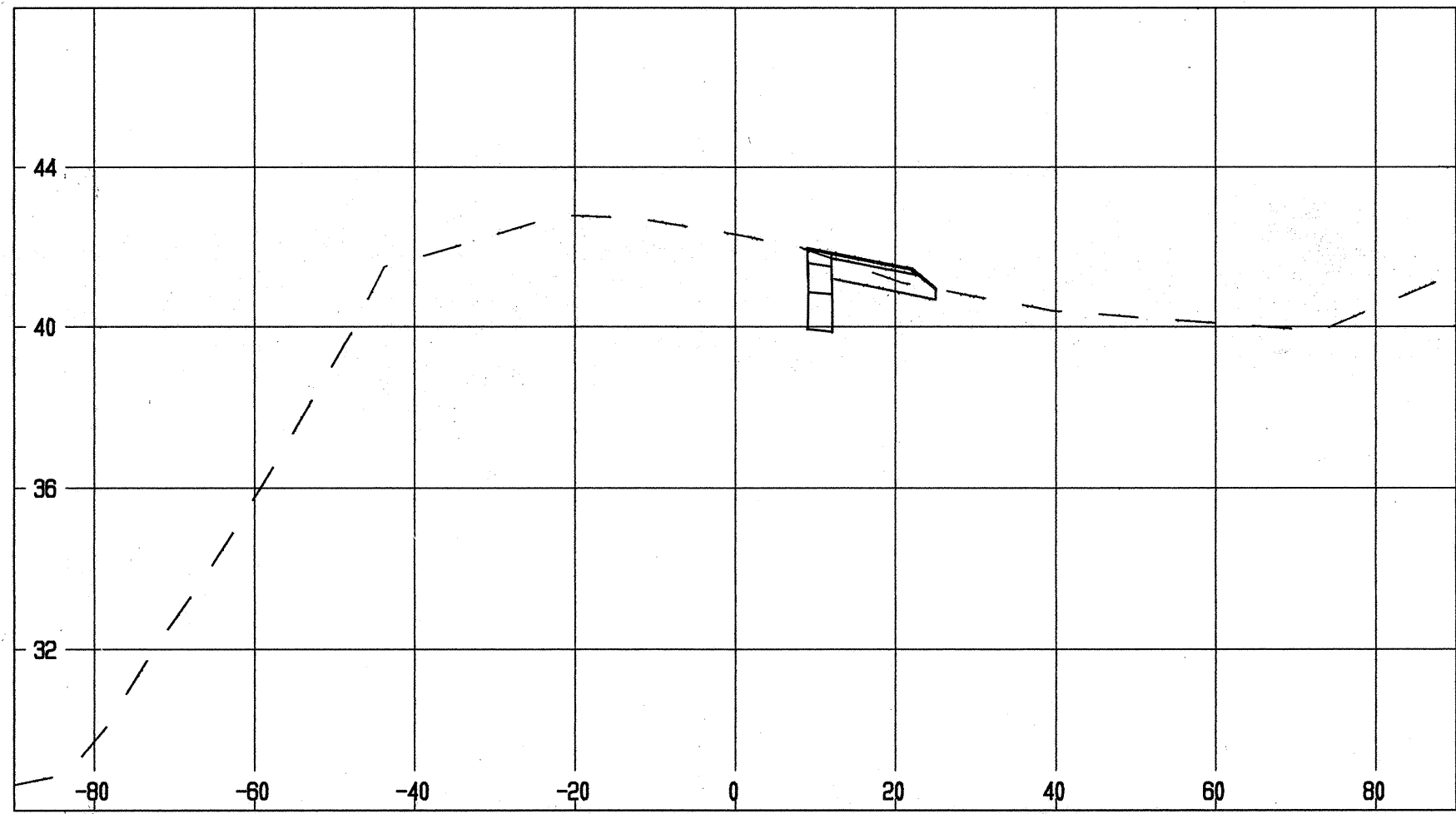
Approved: _____
Date: _____



CUT = 0.0 SF
FILL = 0.0 SF
19+00
EXC. = 0.0 CY
EMB. = 0.0 CY



CUT = 11.4 SF
FILL = 0.0 SF
18+61.54
EXC. = 4.6 CY
EMB. = 0.0 CY

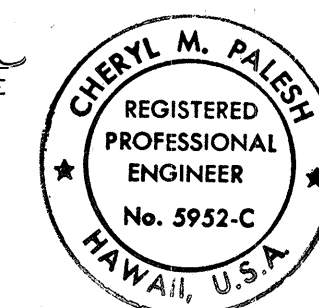


CUT = 10.2 SF
FILL = 0.0 SF
18+50
EXC. = 21.6 CY
EMB. = 0.0 CY

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 4'

Rev	Date	Description	Eng	App
1	7-14-92	REVISE SECTIONS	CP	

Cheryl M. Palesh
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880 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
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VILLAGES OF LA'I'OPUA
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PHASE 1
QUEEN KAAHUMANU HIGHWAY
CROSS SECTIONS
STA. 18+50 TO STA. 19+00

Designed by: **CP, RK** Date: _____
Drawn by: **AK** Proj. no.: **(BCA)841.0104**

Approved: _____
Date: _____