

**NATIONAL RIVERS AUTHORITY
SOUTHERN REGION**

**NATIONAL SEA DEFENCE SURVEY
PHASE IVA**

VOLUME 8

TOPOGRAPHIC DRAWINGS OF THE SWALE



NOVEMBER 1992

Flynn & Rothwell

CONSULTING ENGINEERS

Charrington House
The Causeway
Bishops Stortford
Herts CM23 2ER

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

**NATIONAL RIVERS AUTHORITY
SOUTHERN REGION**

**NATIONAL SEA DEFENCE SURVEY
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VOLUME 8

TOPOGRAPHIC DRAWINGS OF THE SWALE

CONTENTS

- LOCATION MAP
- KEY MAPS
- MAPS SHOWING THE CREST LEVELS
- DRAWINGS SHOWING THE CROSS SECTIONS



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This volume is one of a set of volumes containing information obtained during a survey of all the NRA owned tidal river defences in NRA's Southern Region. The survey was carried out between April and September 1992 by Flynn & Rothwell for the National Rivers Authority (Southern Region).

The complete set comprises:

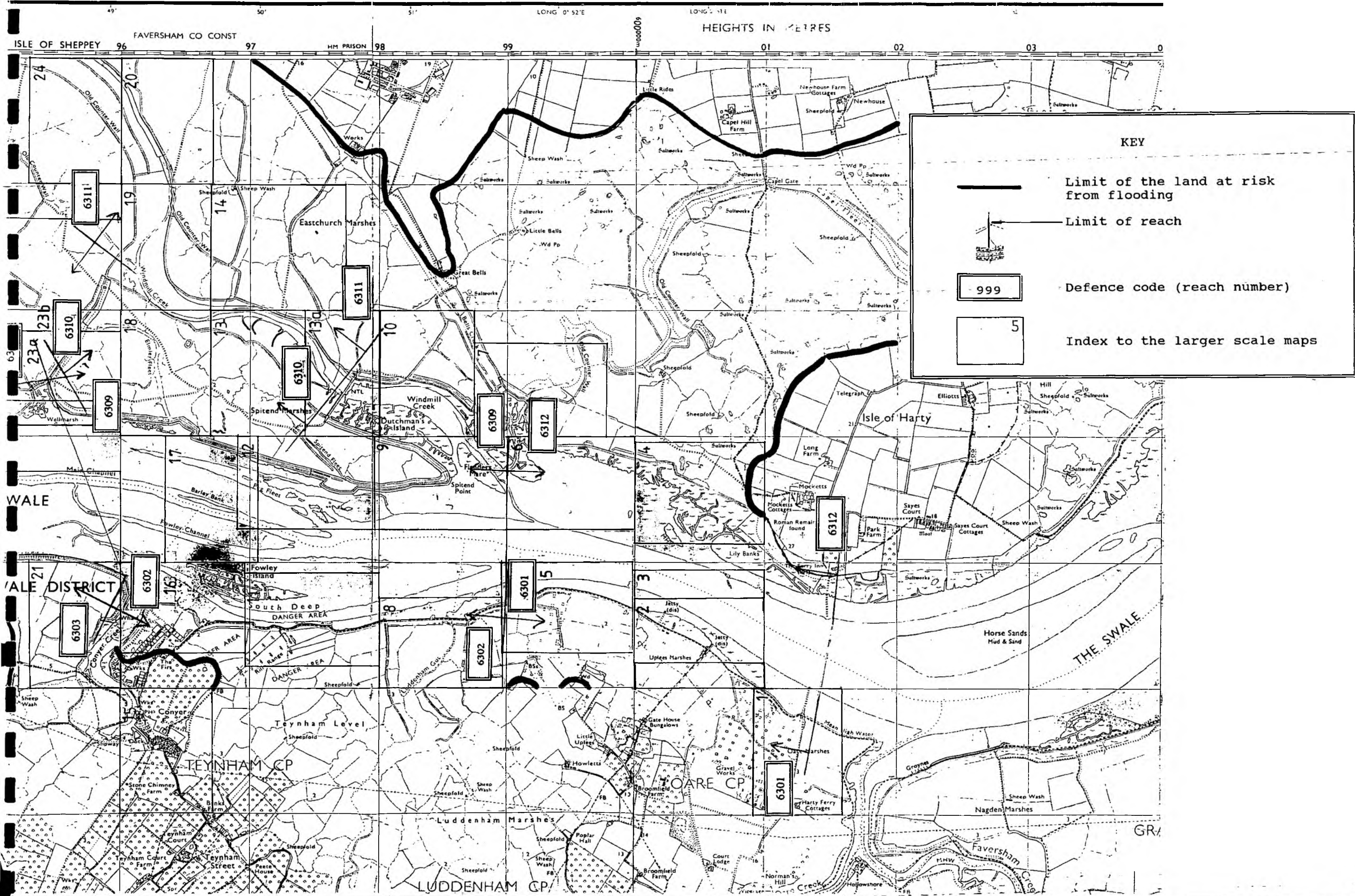
Volume 1	Background and Methodology
Volume 2	Conditions and Standards of Service of assets, Rivers Thames and Medway
Volume 3	Condition and Standards of Service of Rivers Swale, Stour and Rother
Volume 4	Condition and Standards of Service of assets, Rivers Cuckmere, Ouse, Adur, and Arun
Volume 5	Condition and Standards of Service of assets Portsmouth, Langstone & Chichester Harbours
Volume 6	Topographic Drawings of the River Thames
Volume 7	Topographic Drawings of the River Medway
Volume 8	Topographic Drawings of the River Swale
Volume 9	Topographic Drawings of the River Stour
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Volume 11	Topographic Drawings of the River Cuckmere
Volume 12	Topographic Drawings of the River Ouse
Volume 13	Topographic Drawings of the River Adur
Volume 14	Topographic Drawings of the River Arun
Volume 15	Topographic Drawings of the Portsmouth, Langstone & Chichester Harbours

In addition, a comprehensive series of colour photographs of the defences were taken for NRA records. A representative sample of these have been made into slides.



Location Plan

KEY MAPS AT 1/25000 SCALE

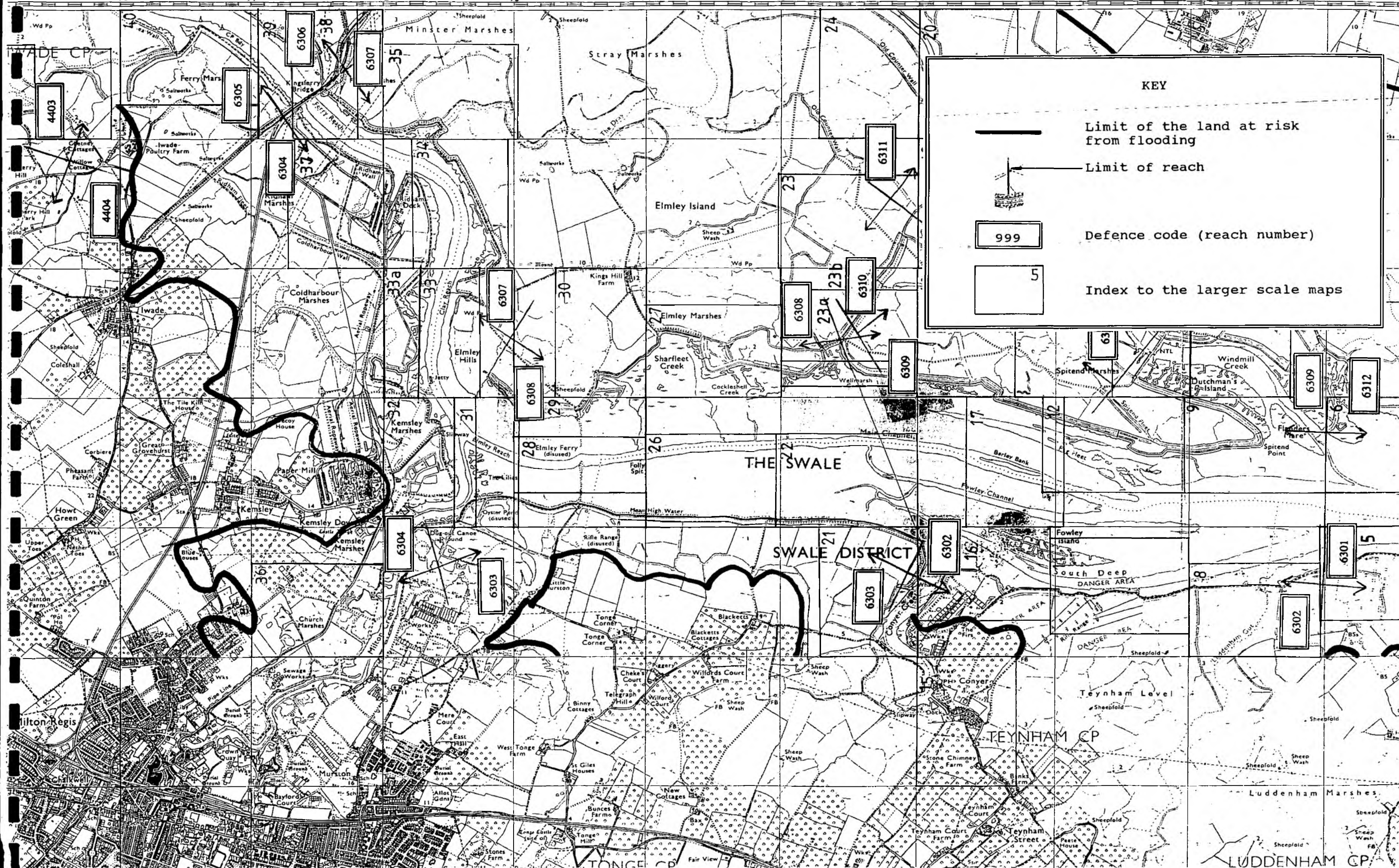


ENT COUNTY

FAVERSHAM CO CONST

HM PRISON 98

99



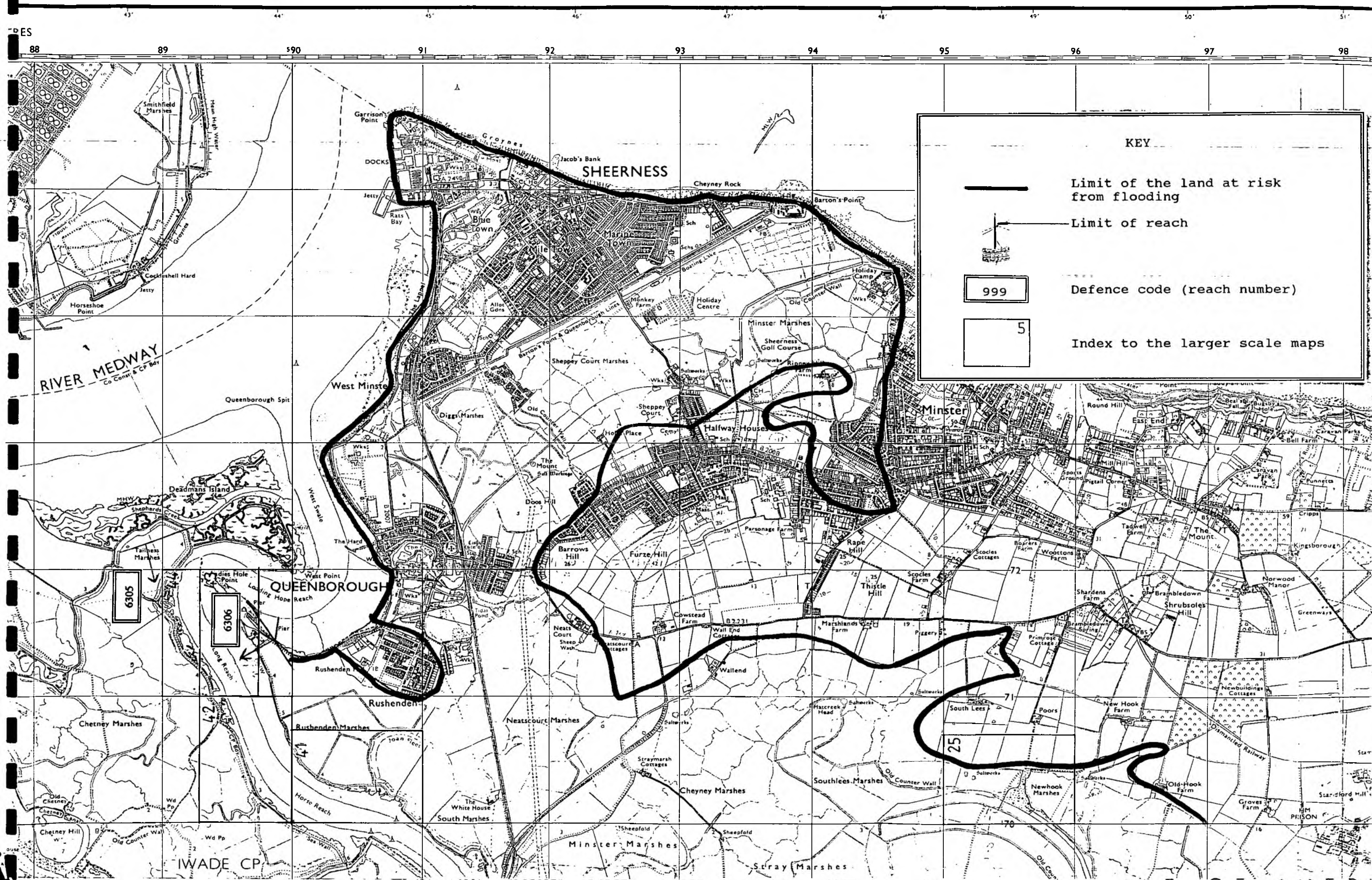
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— Limit of the land at risk from flooding

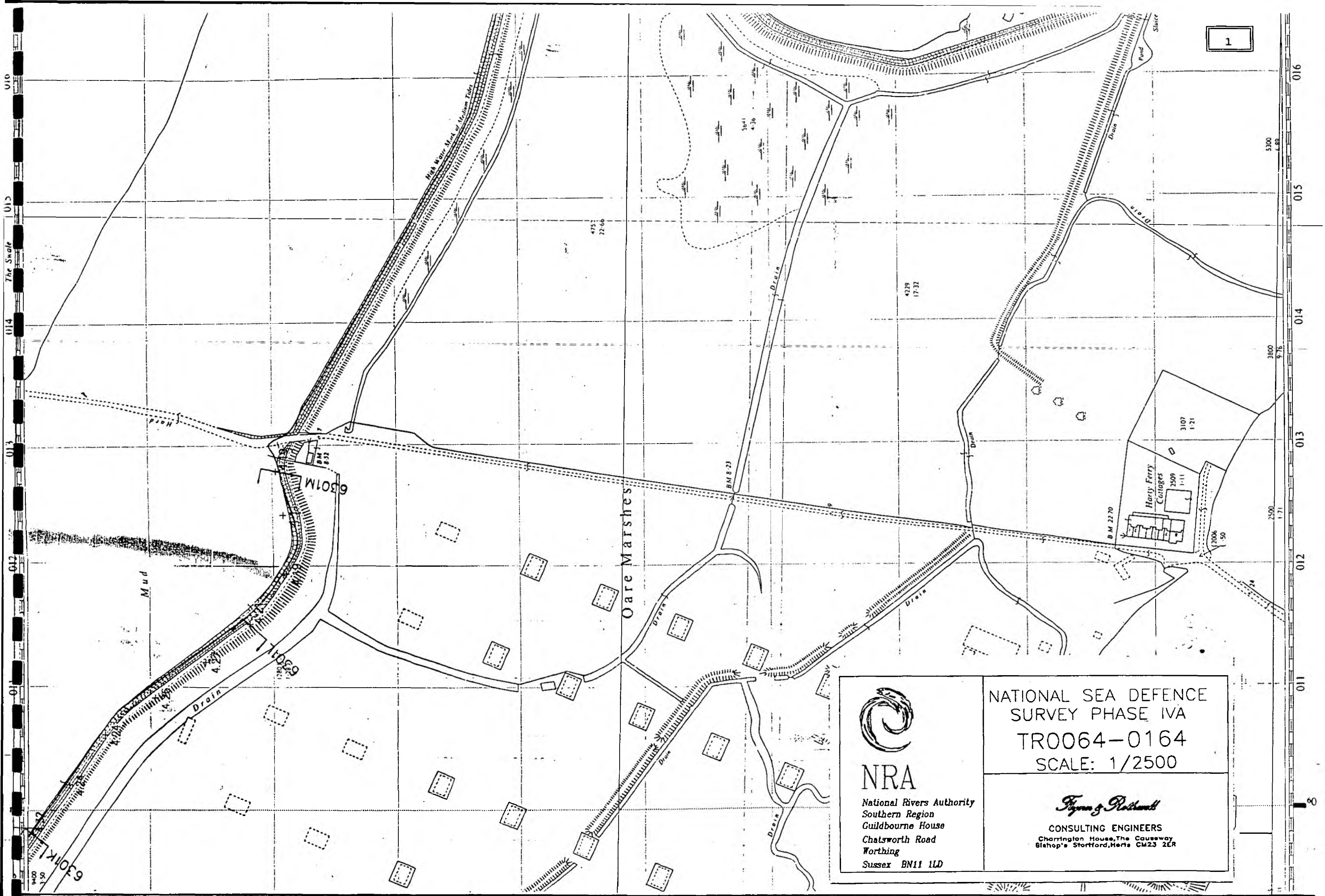
— Limit of reach

999 Defence code (reach number)

5 Index to the larger scale maps



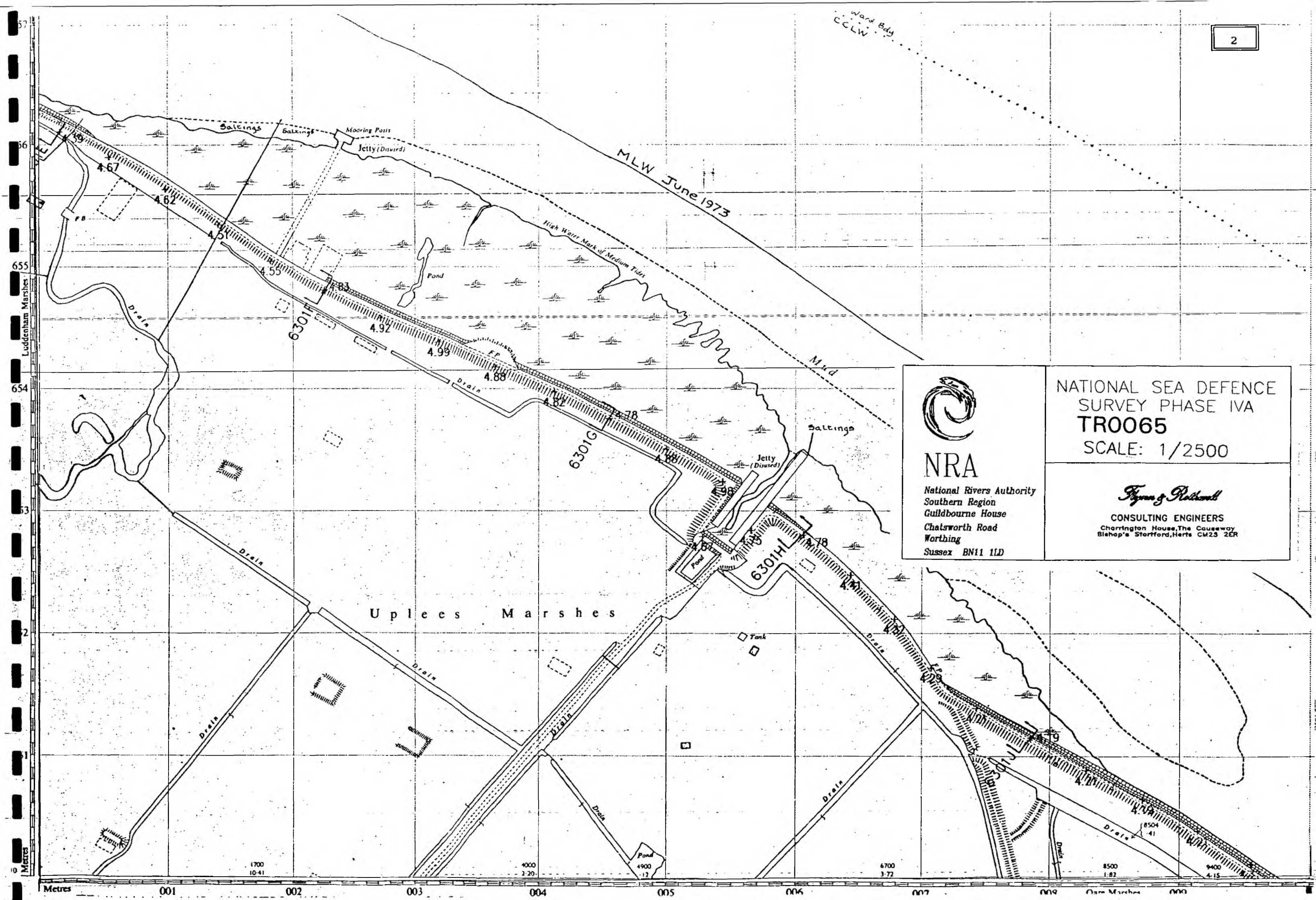
MAPS SHOWING THE CREST LEVELS

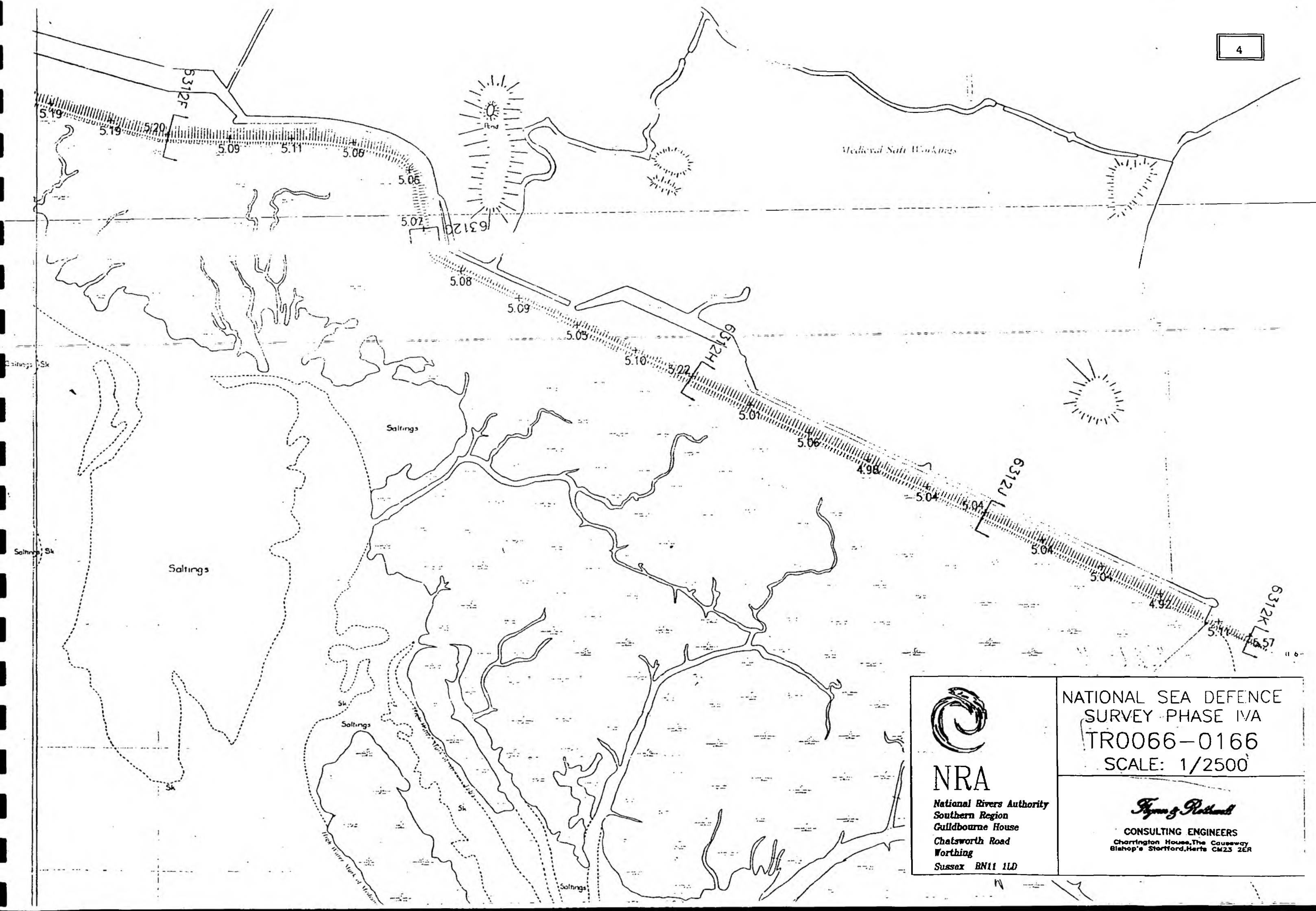


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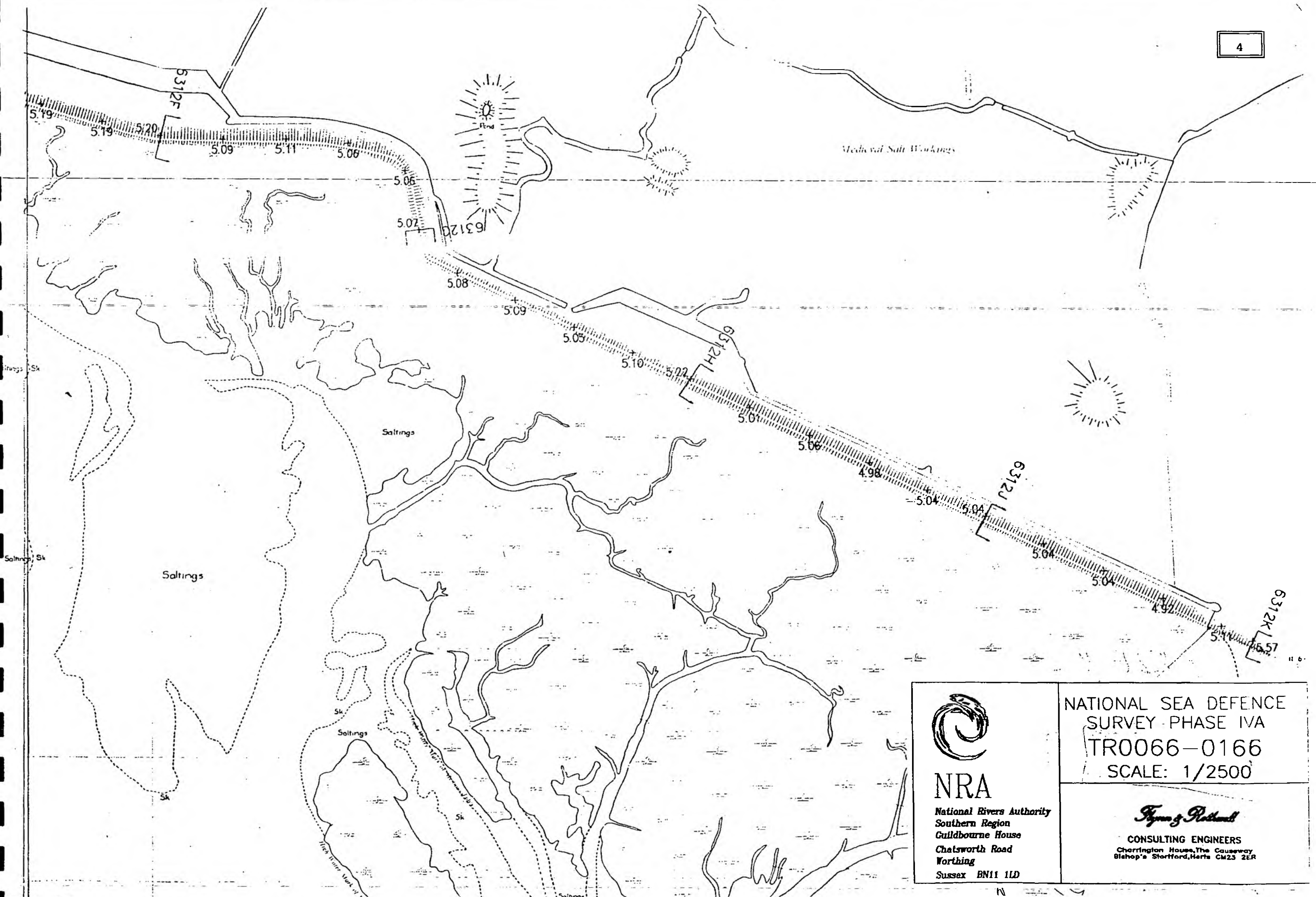
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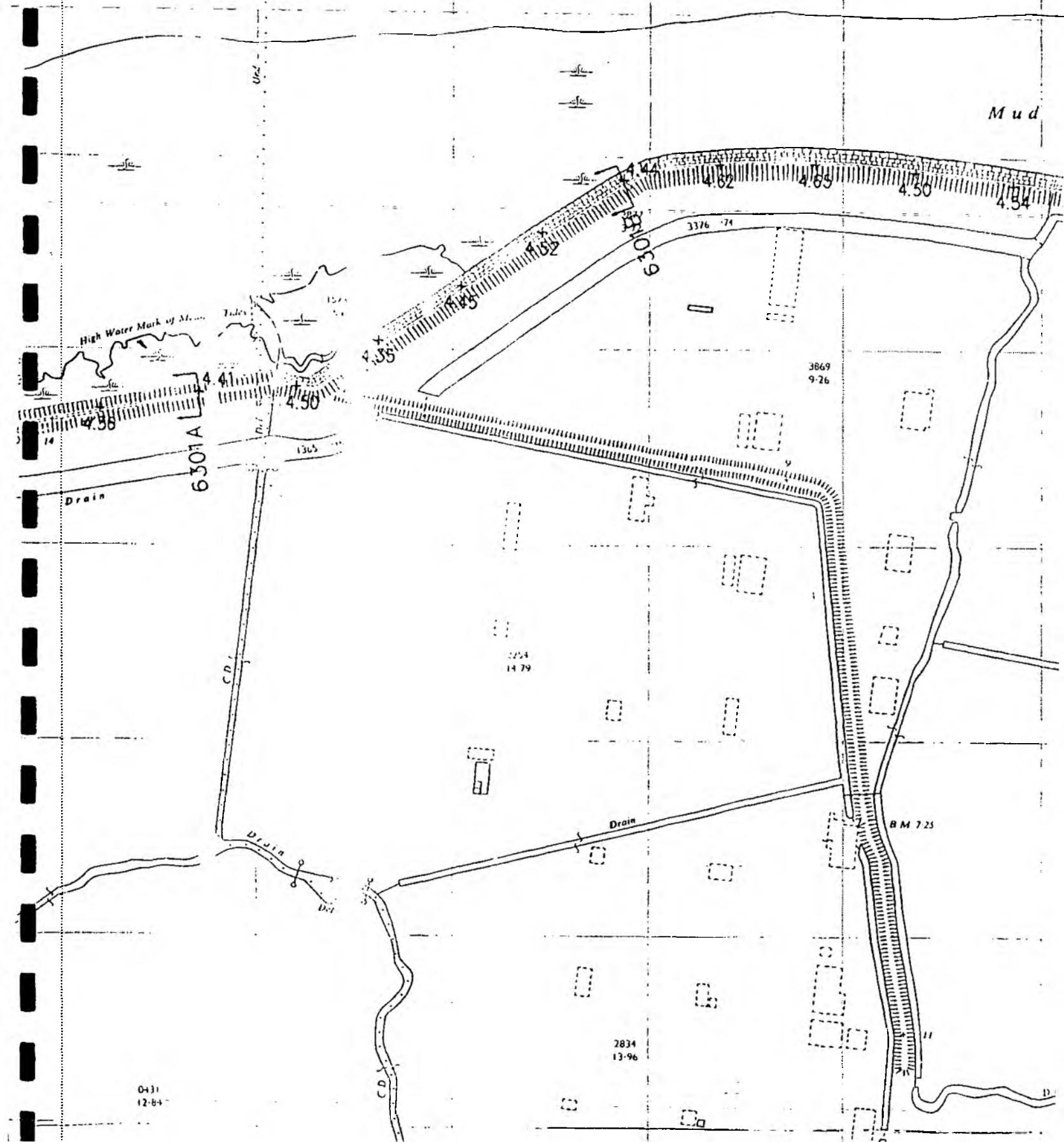
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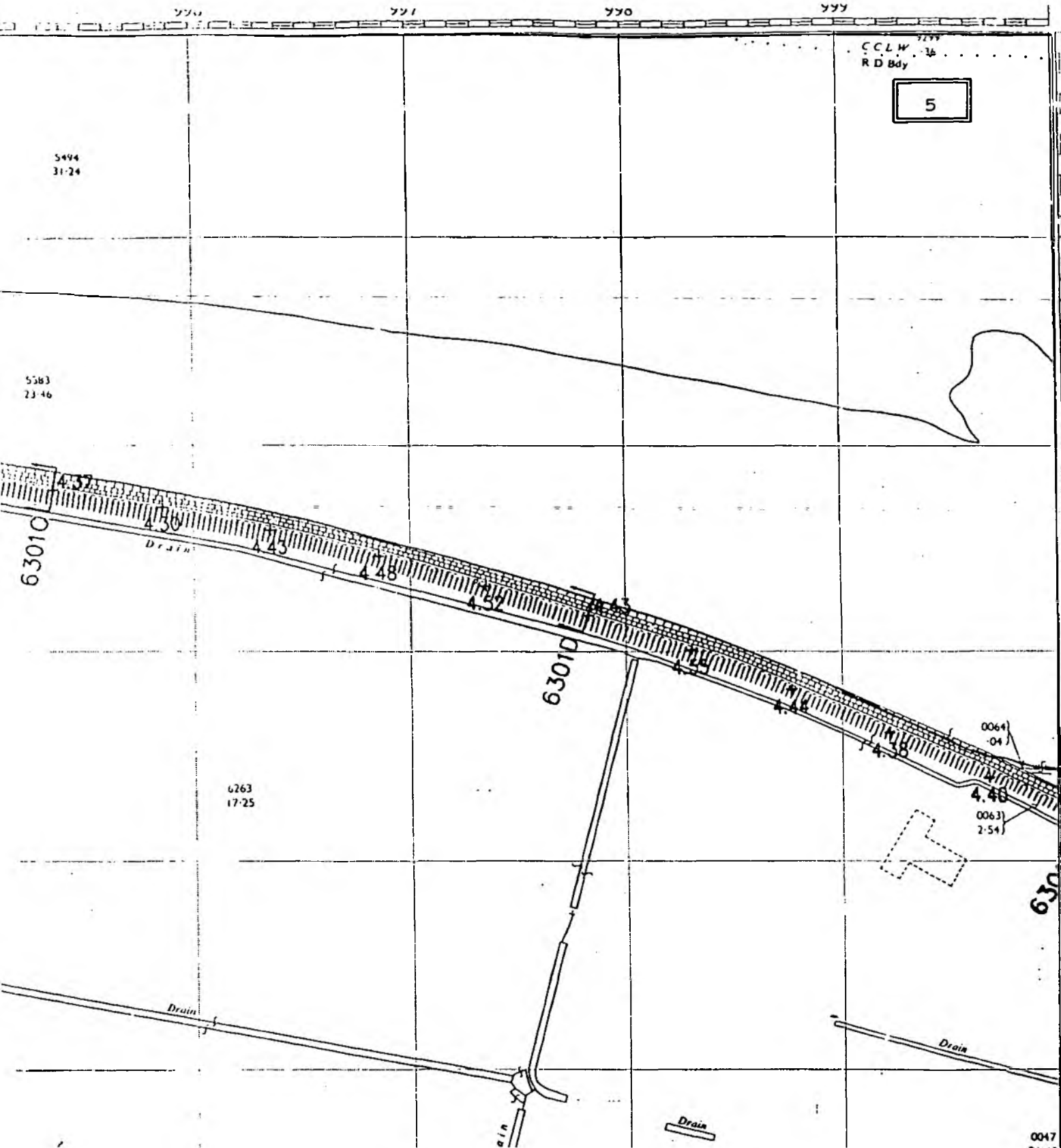
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The Swale





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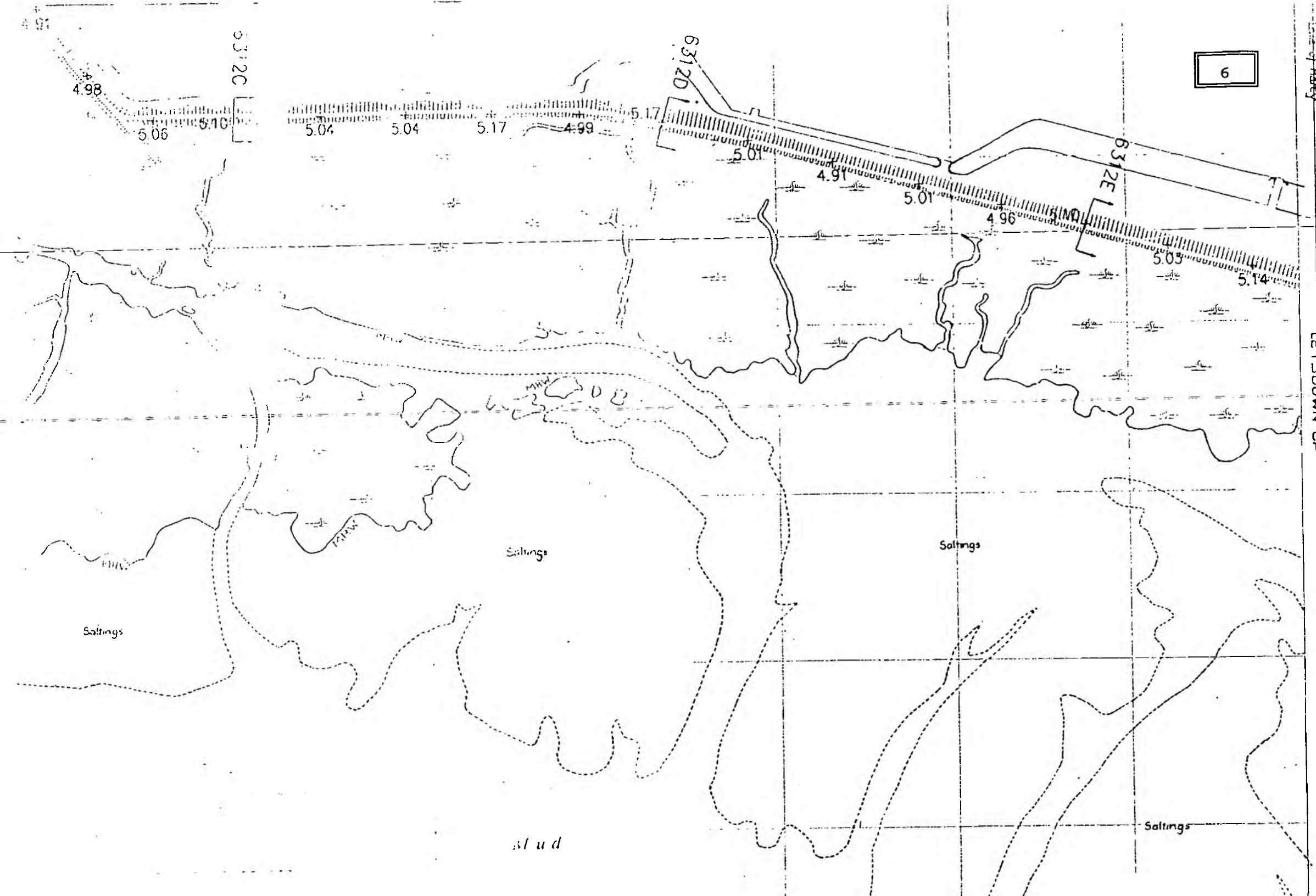
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EASTERN WARD

LEYSDOWN CP

6

LEYSDOWN CP



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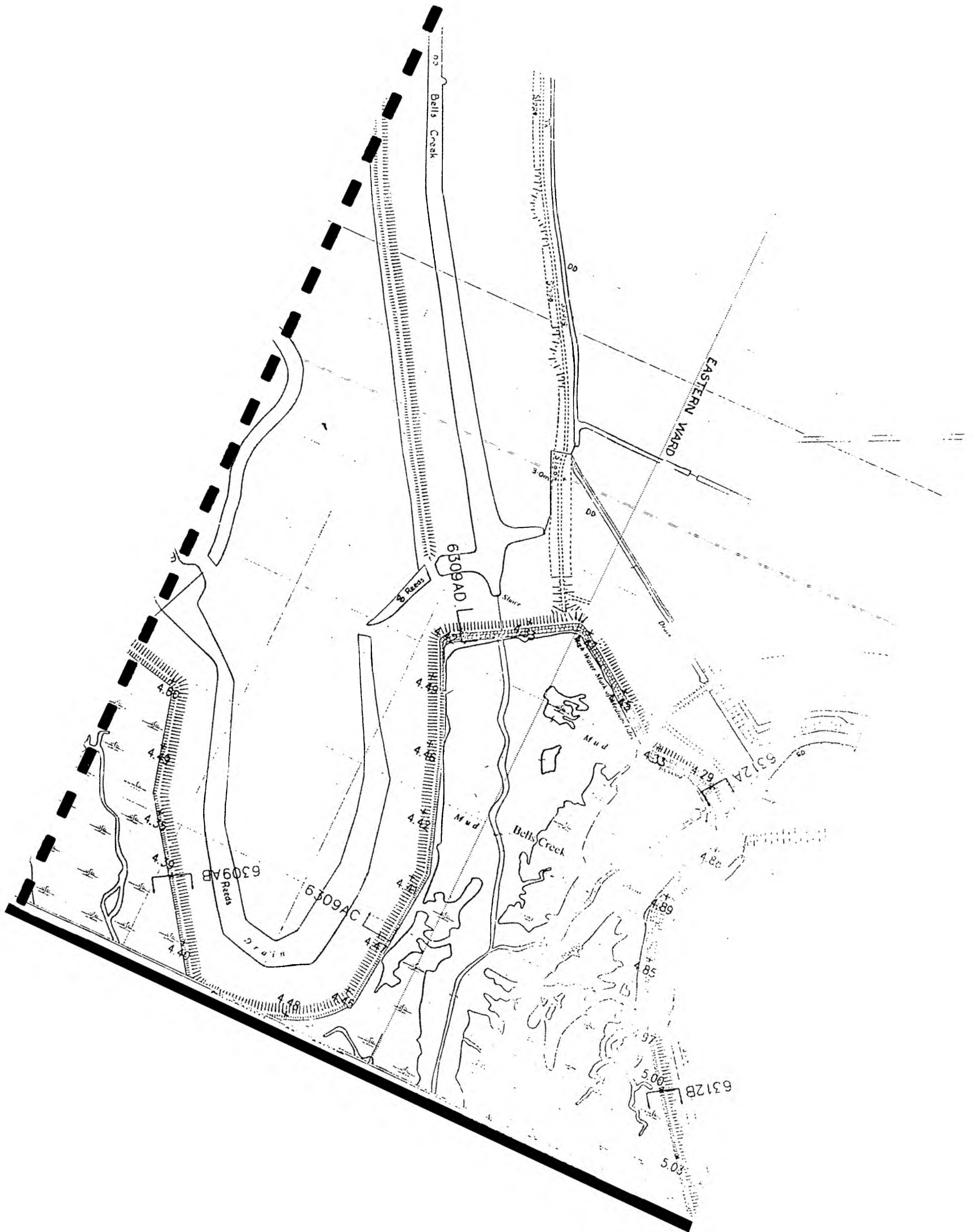
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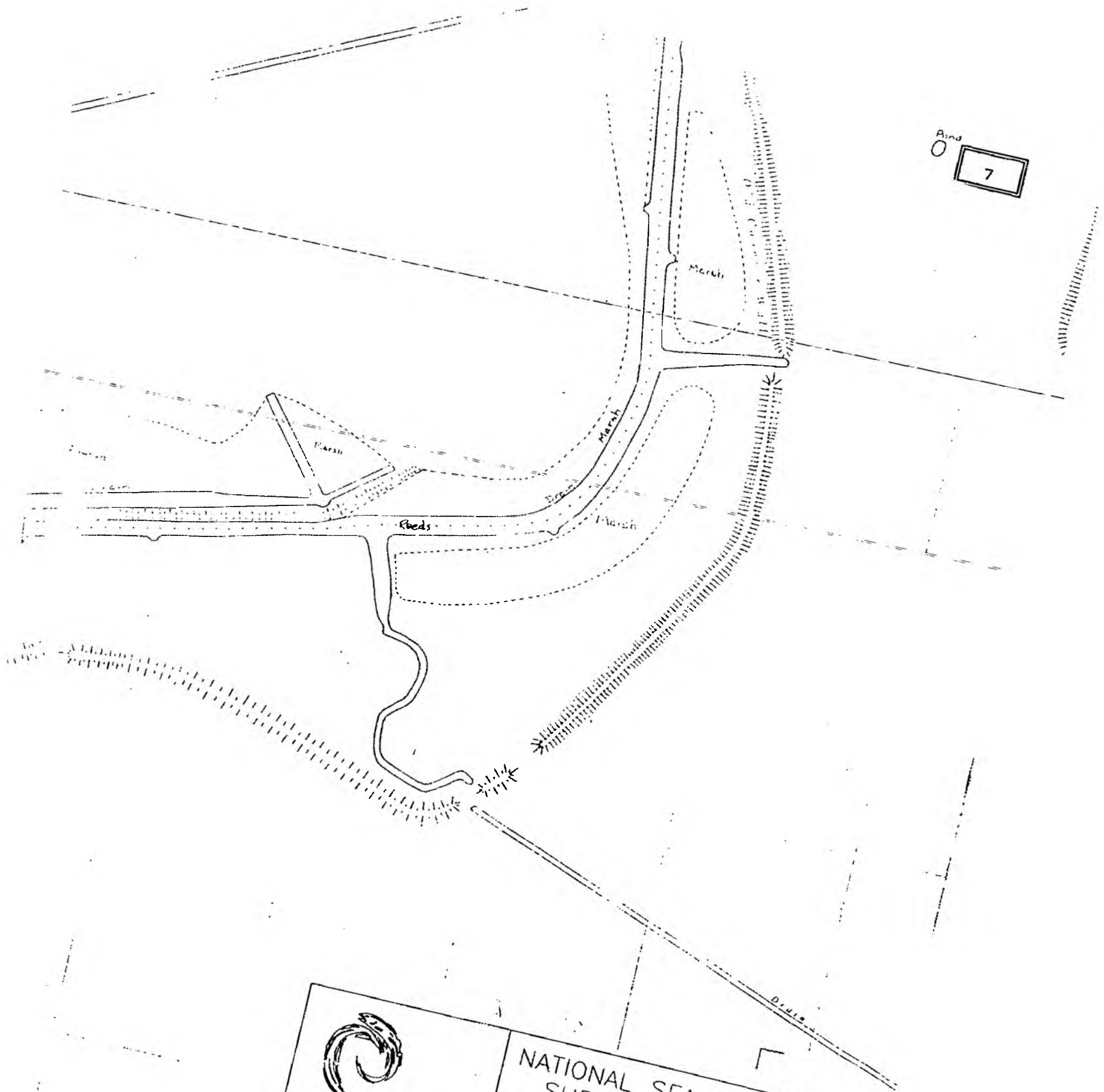
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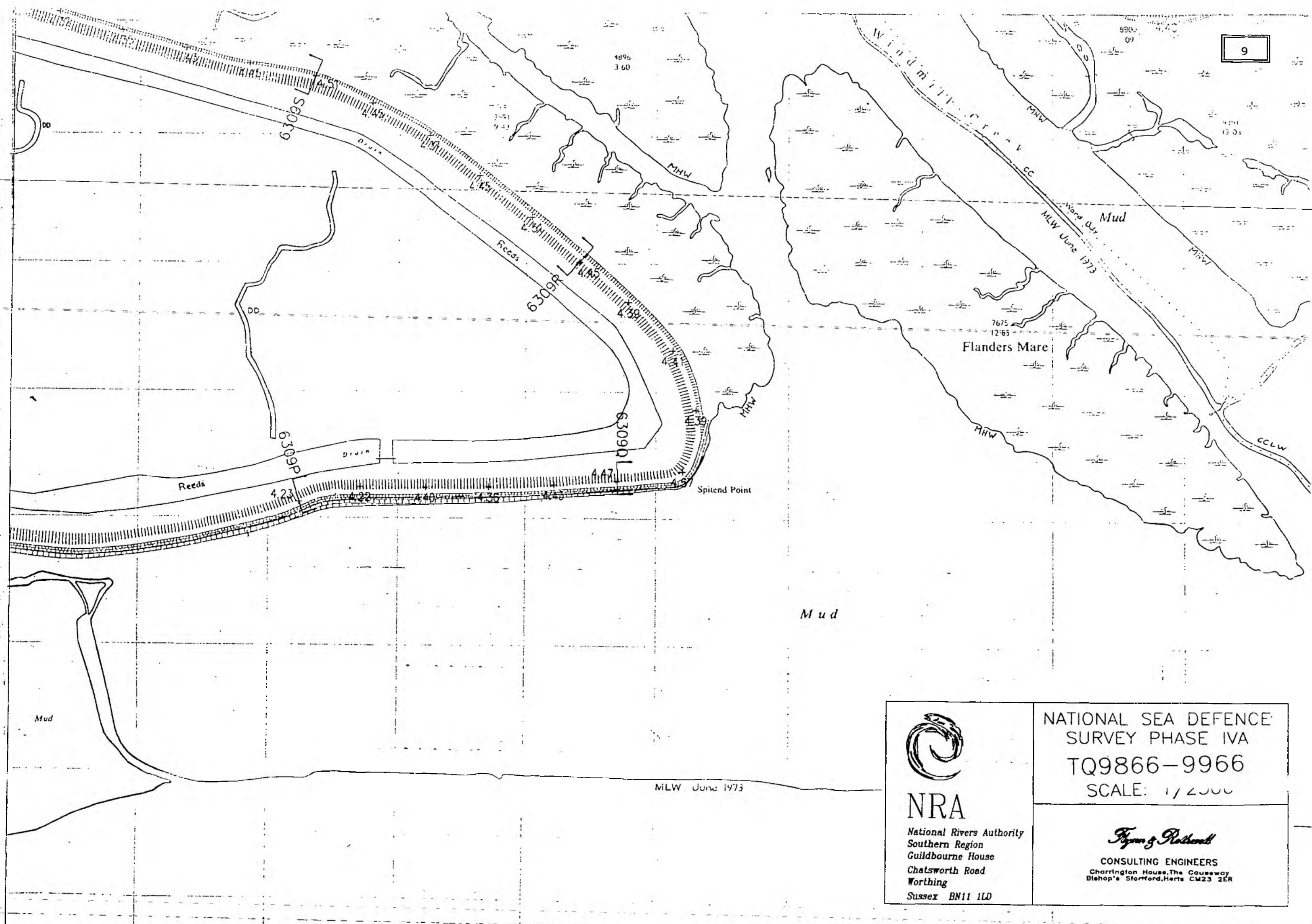
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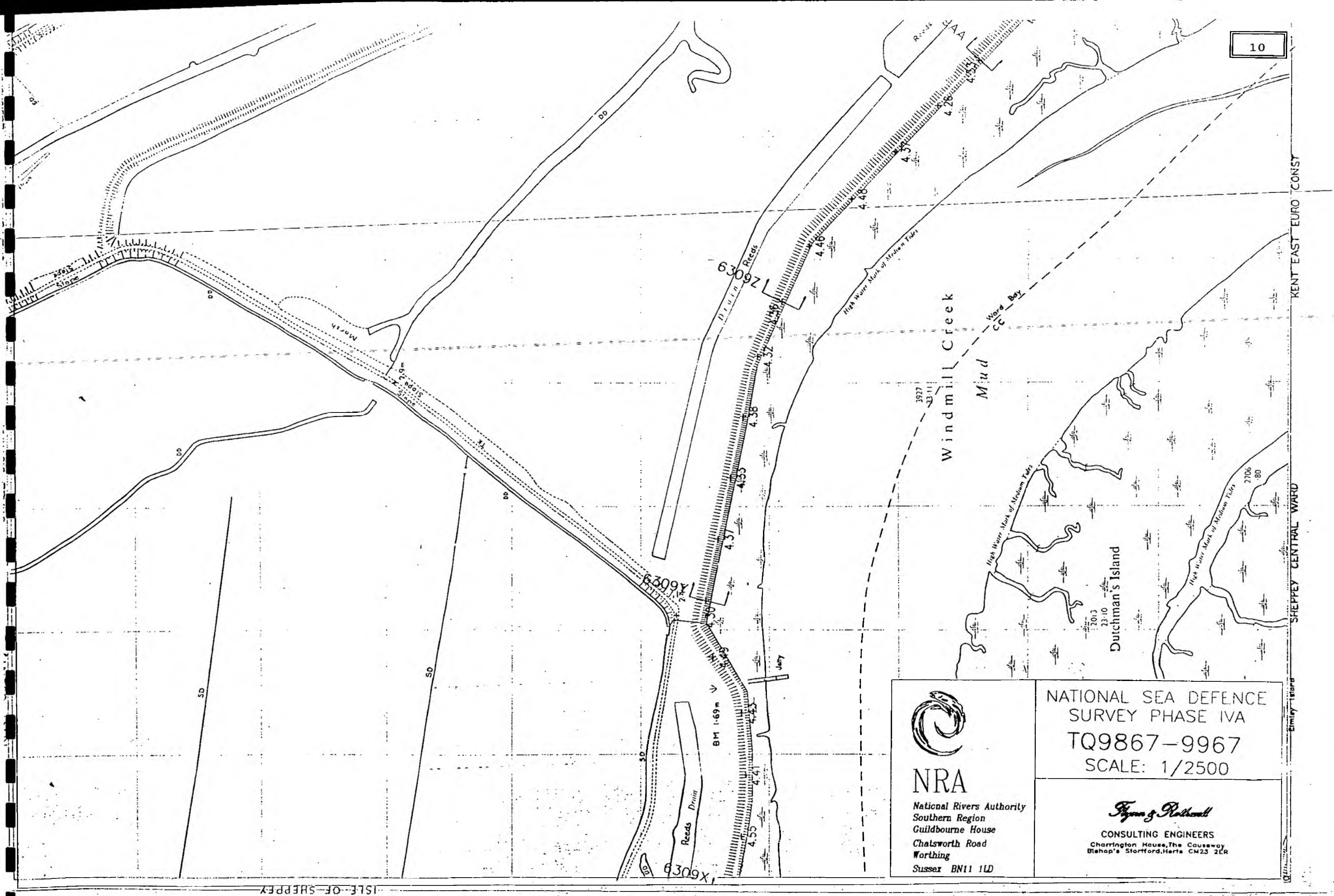
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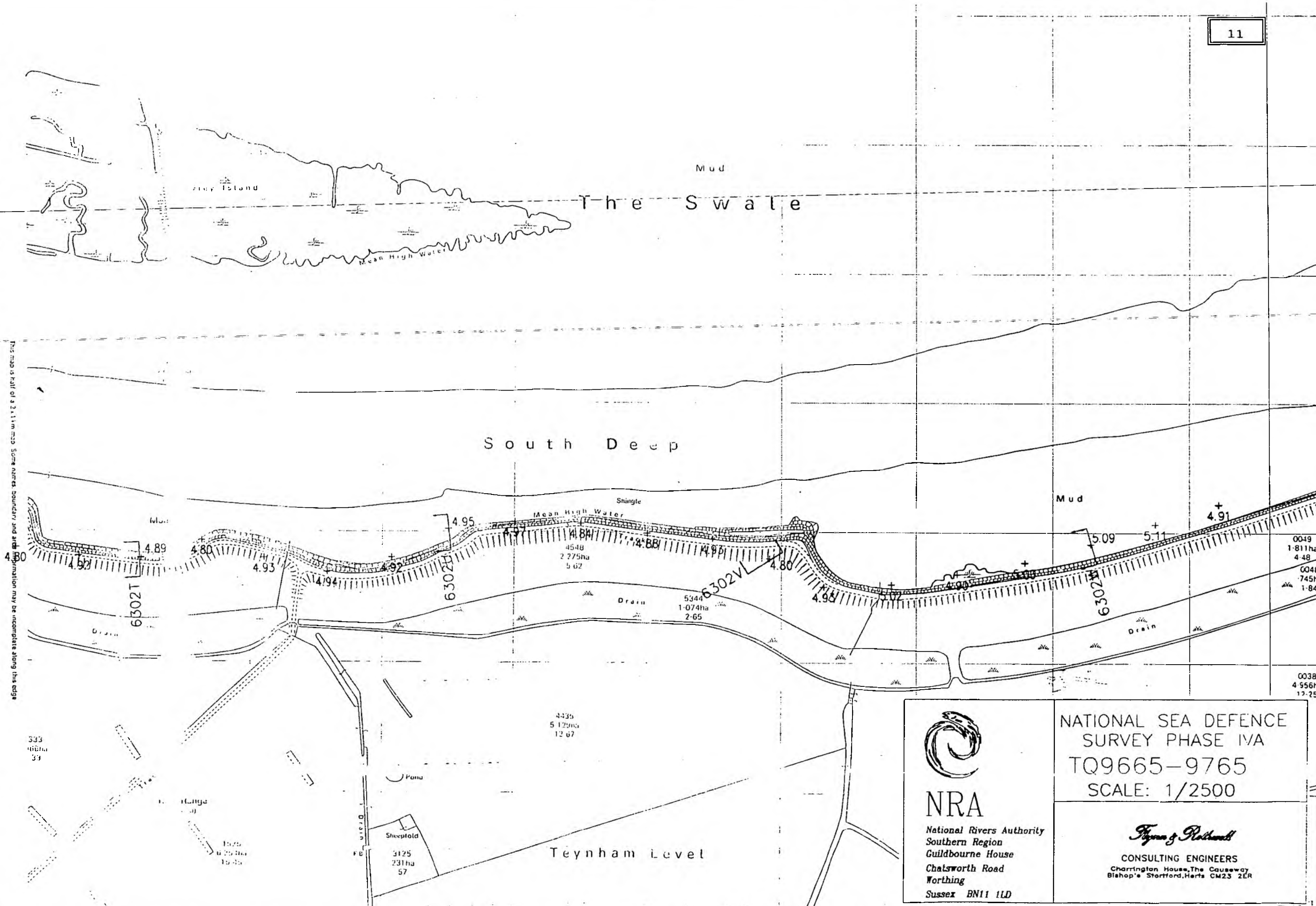
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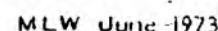
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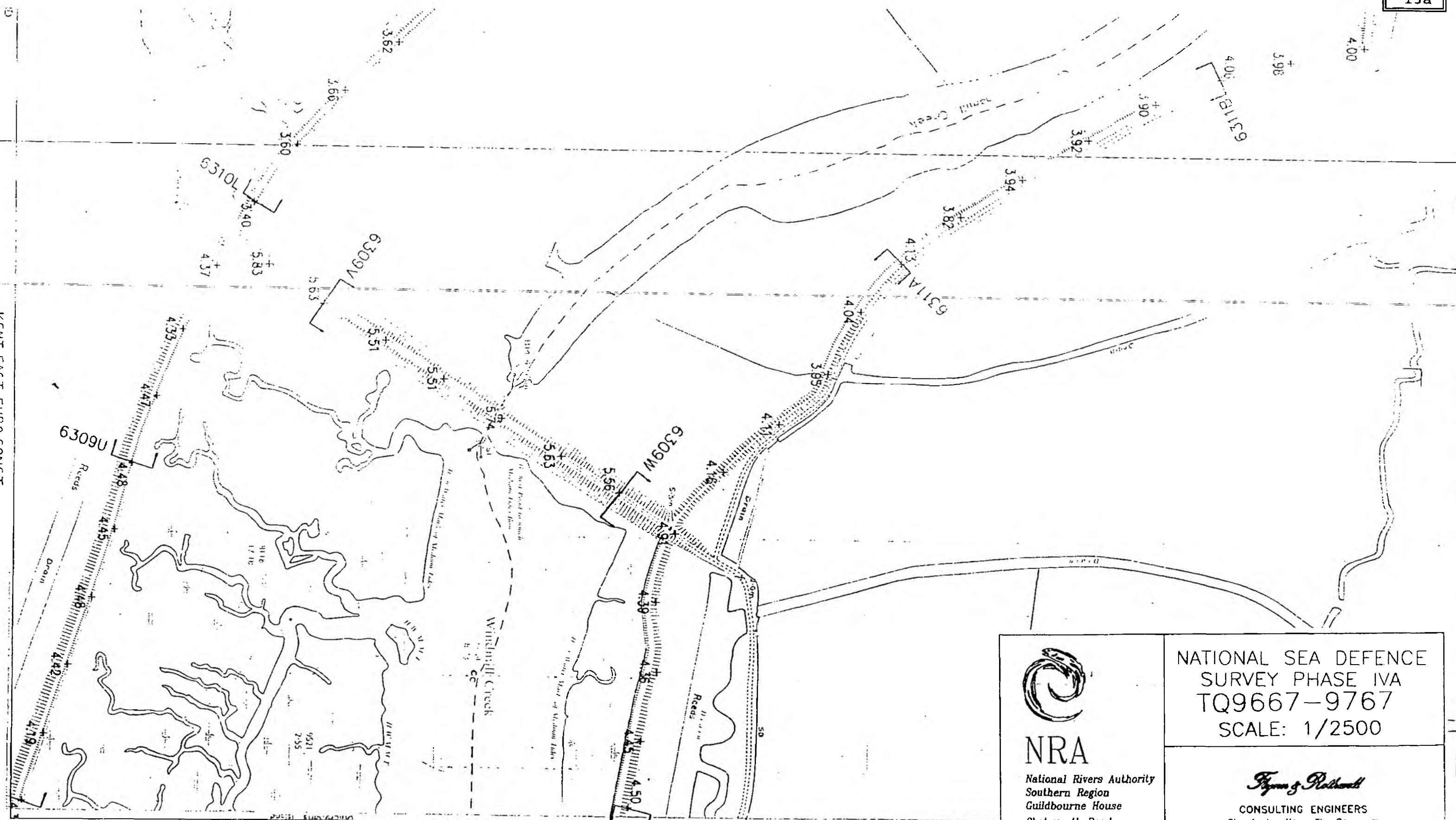
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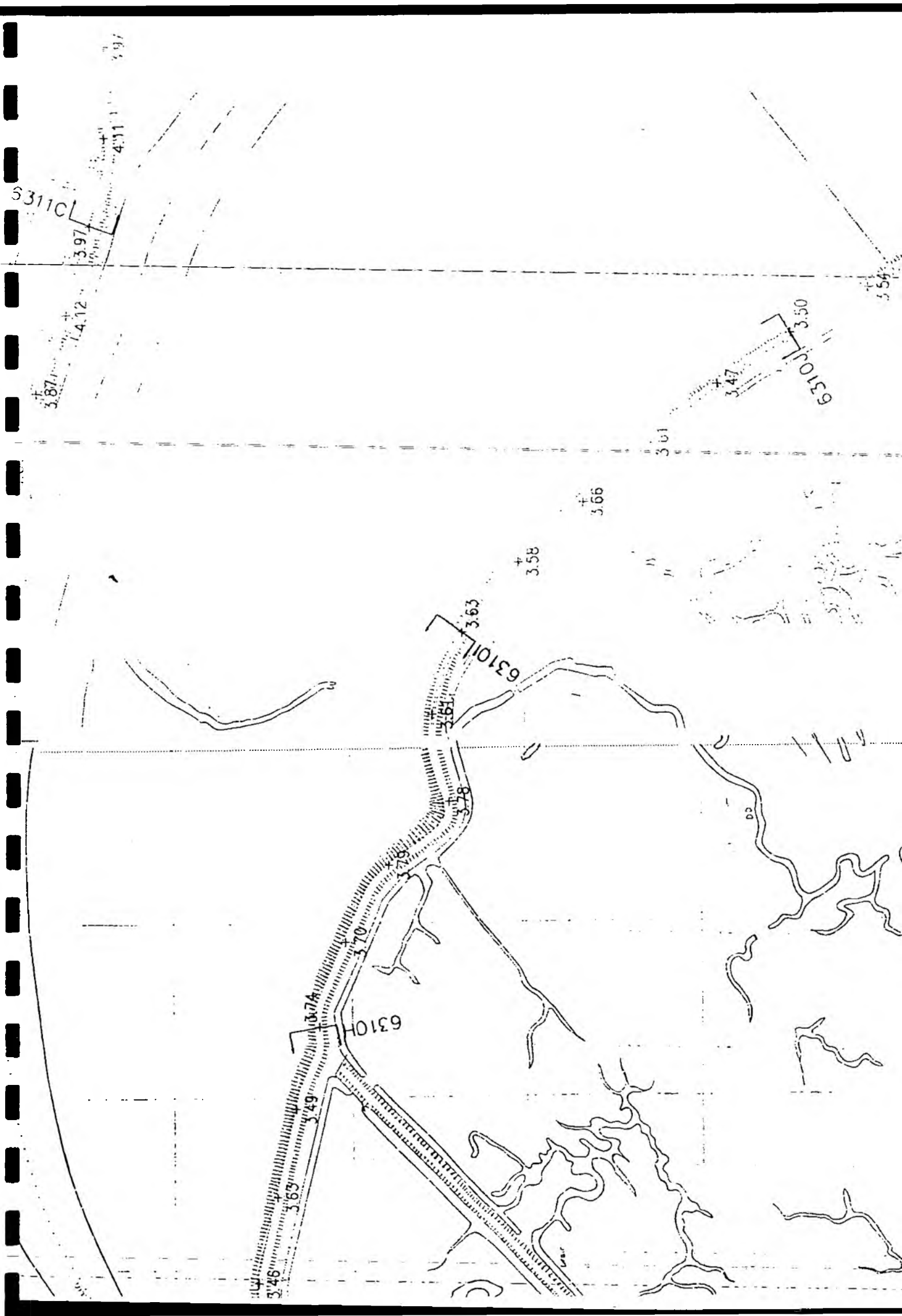
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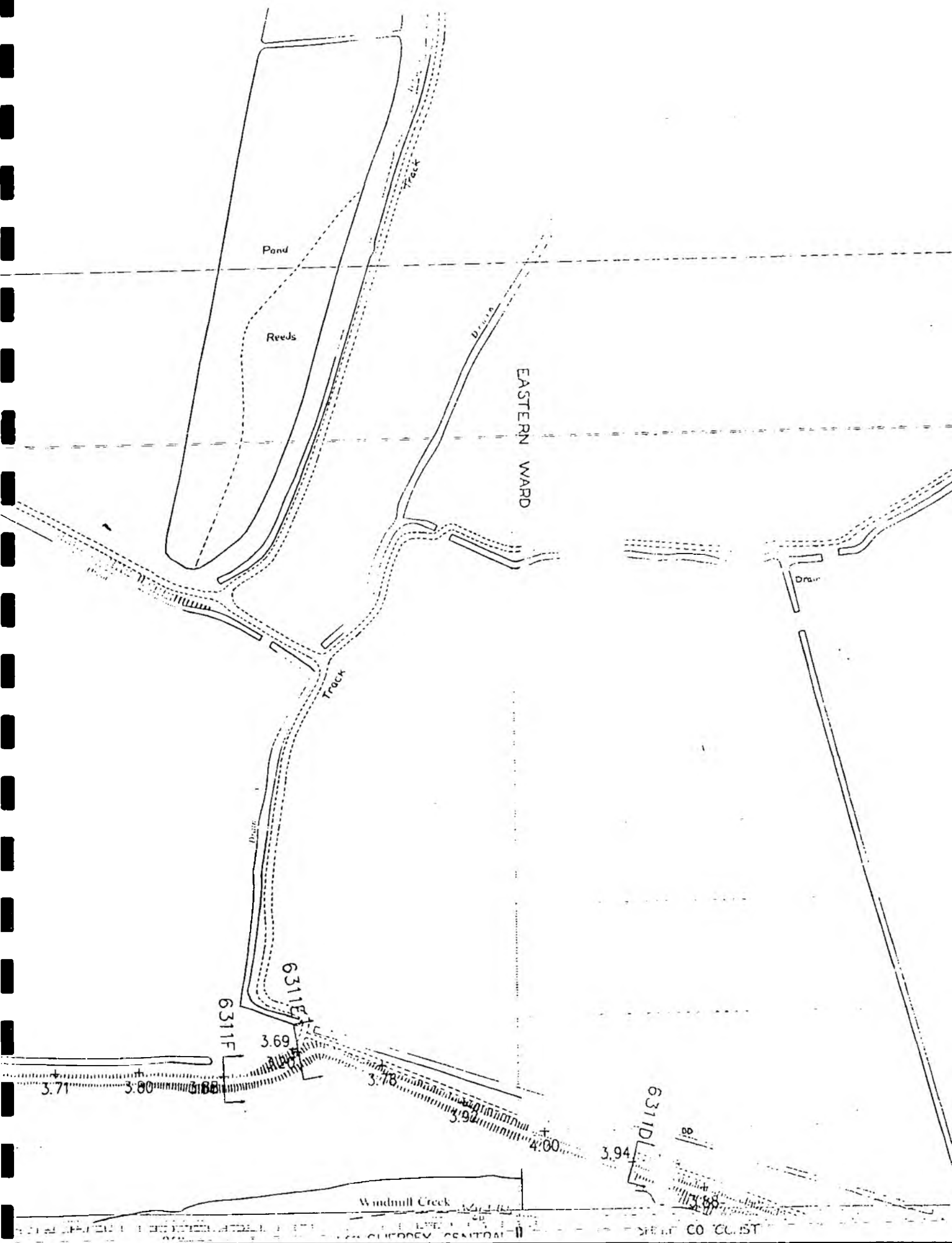
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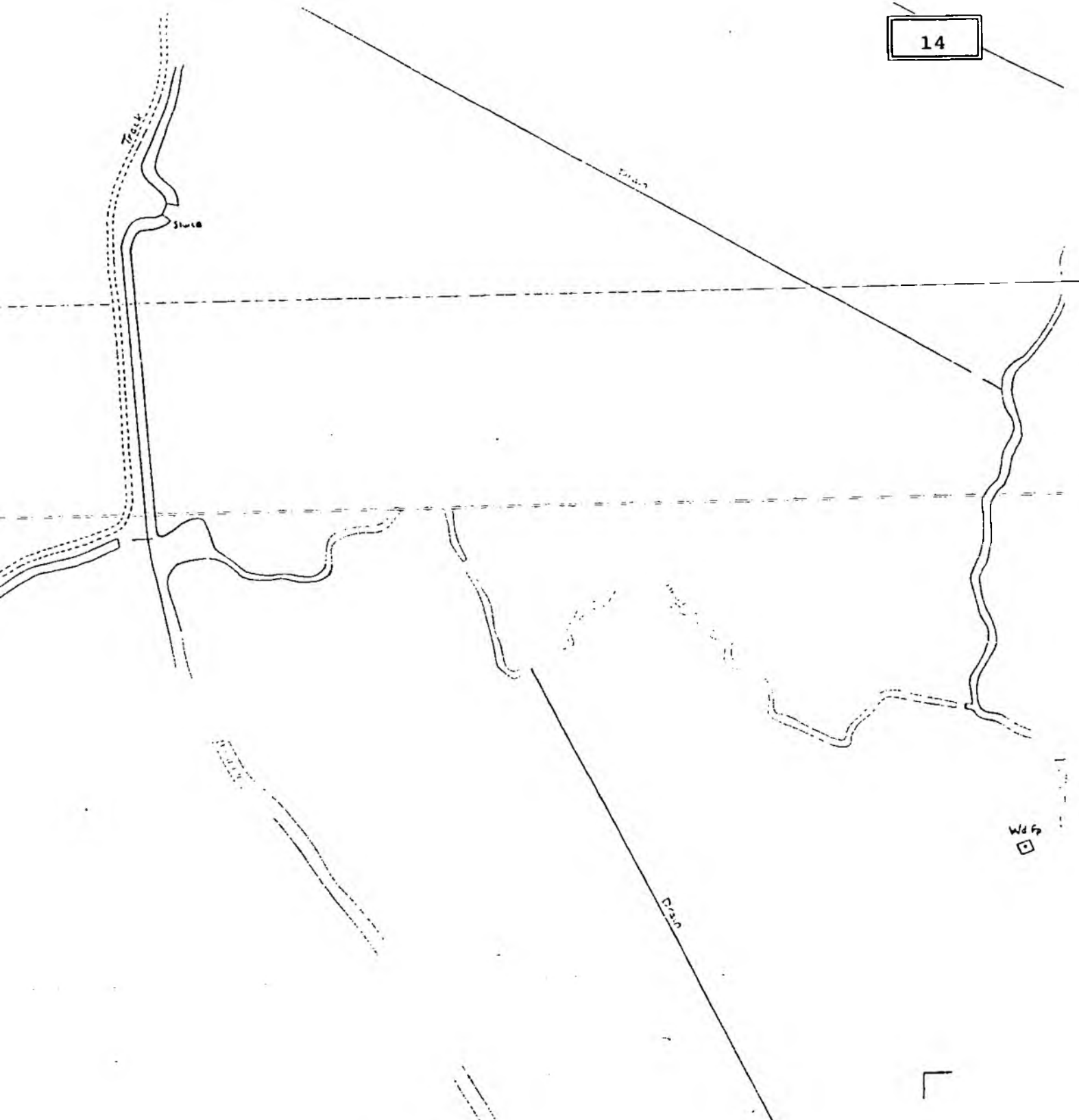
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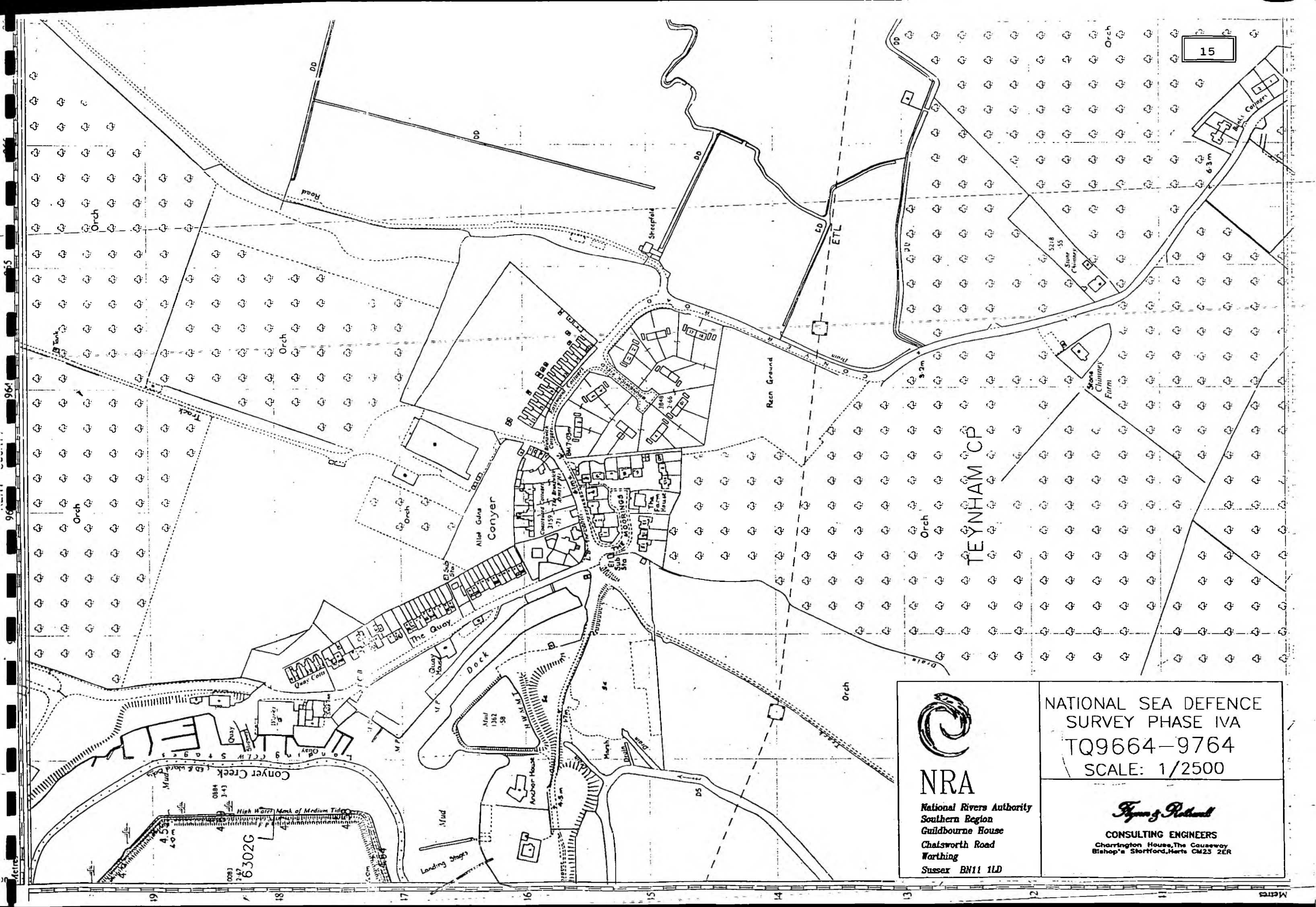
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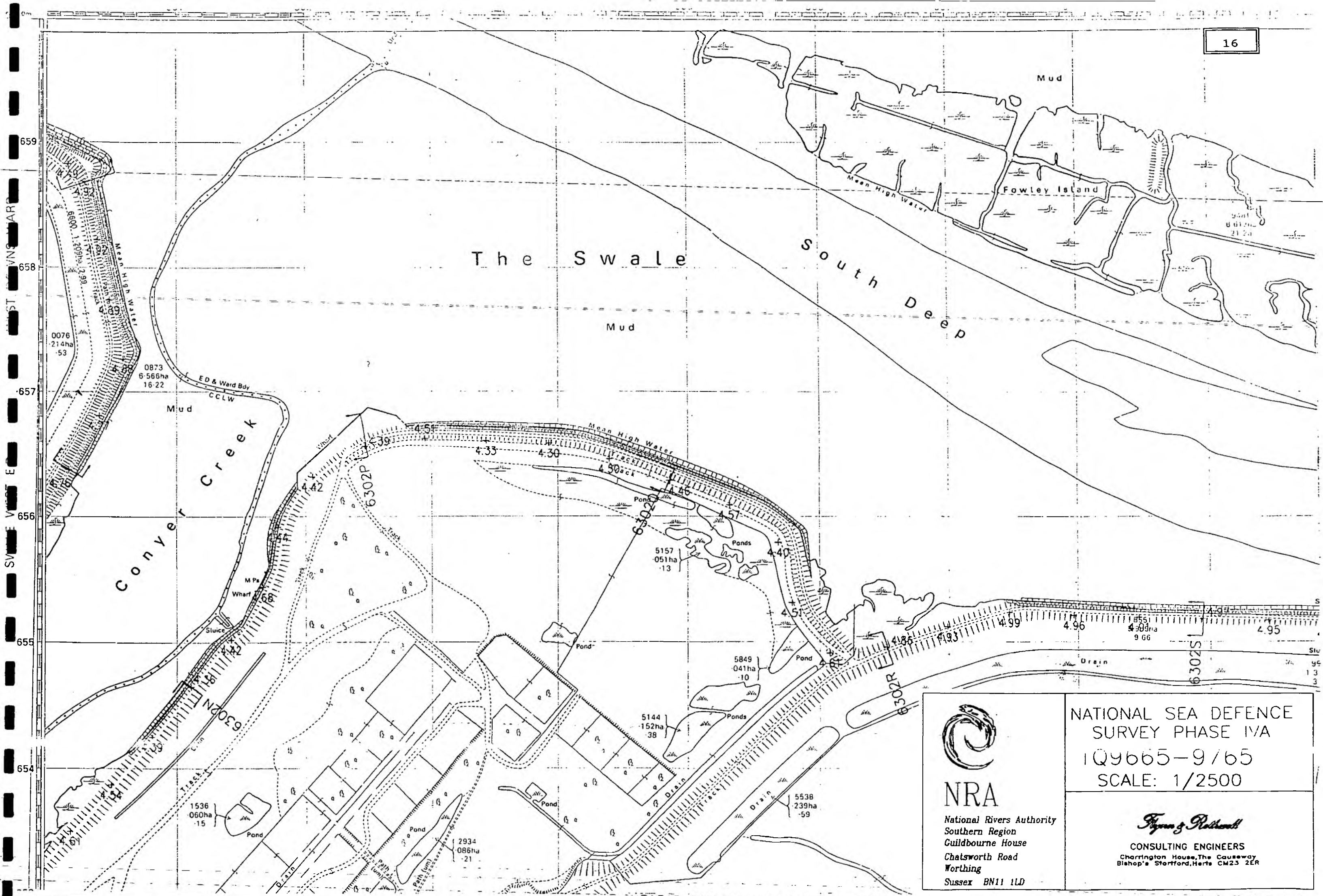
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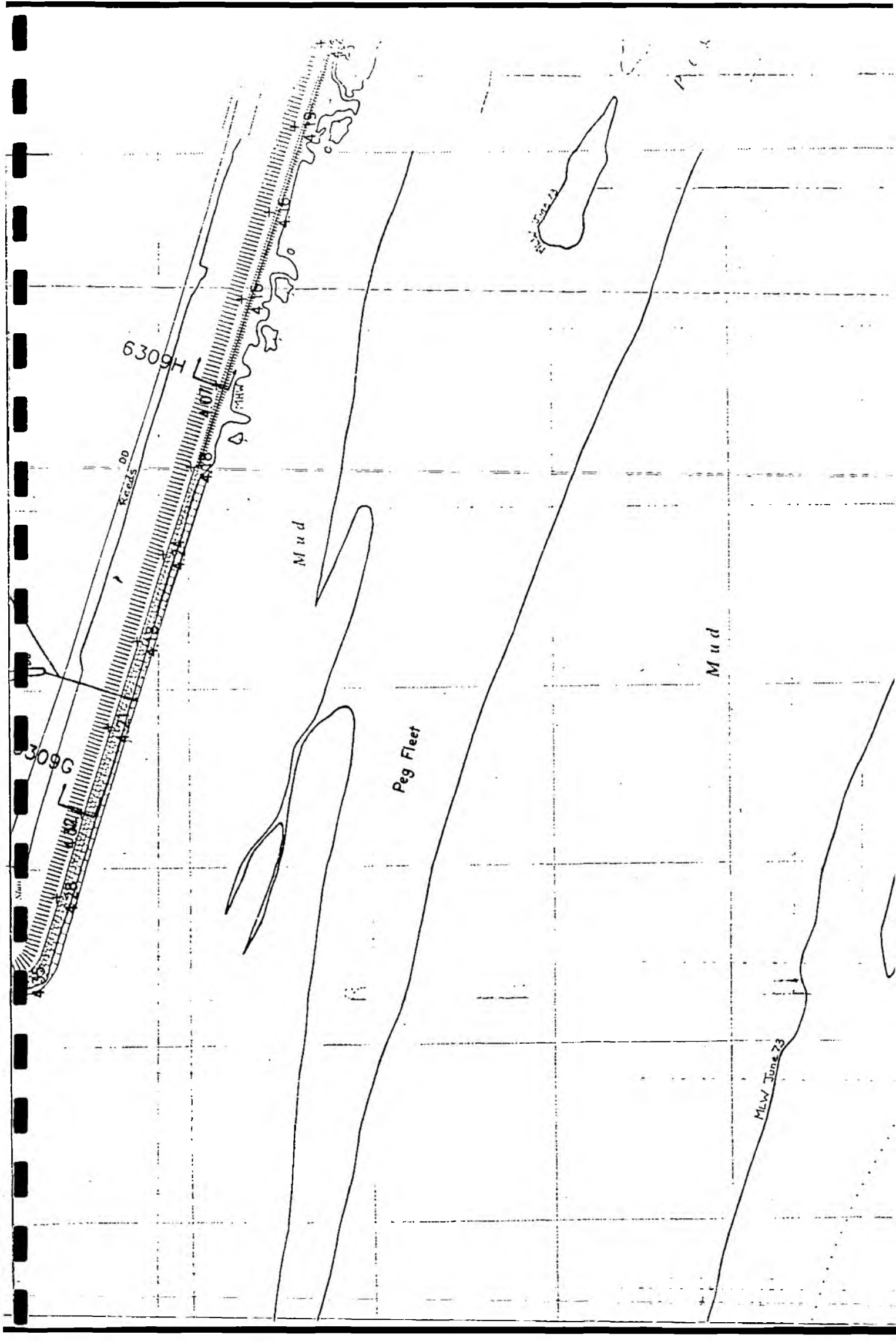
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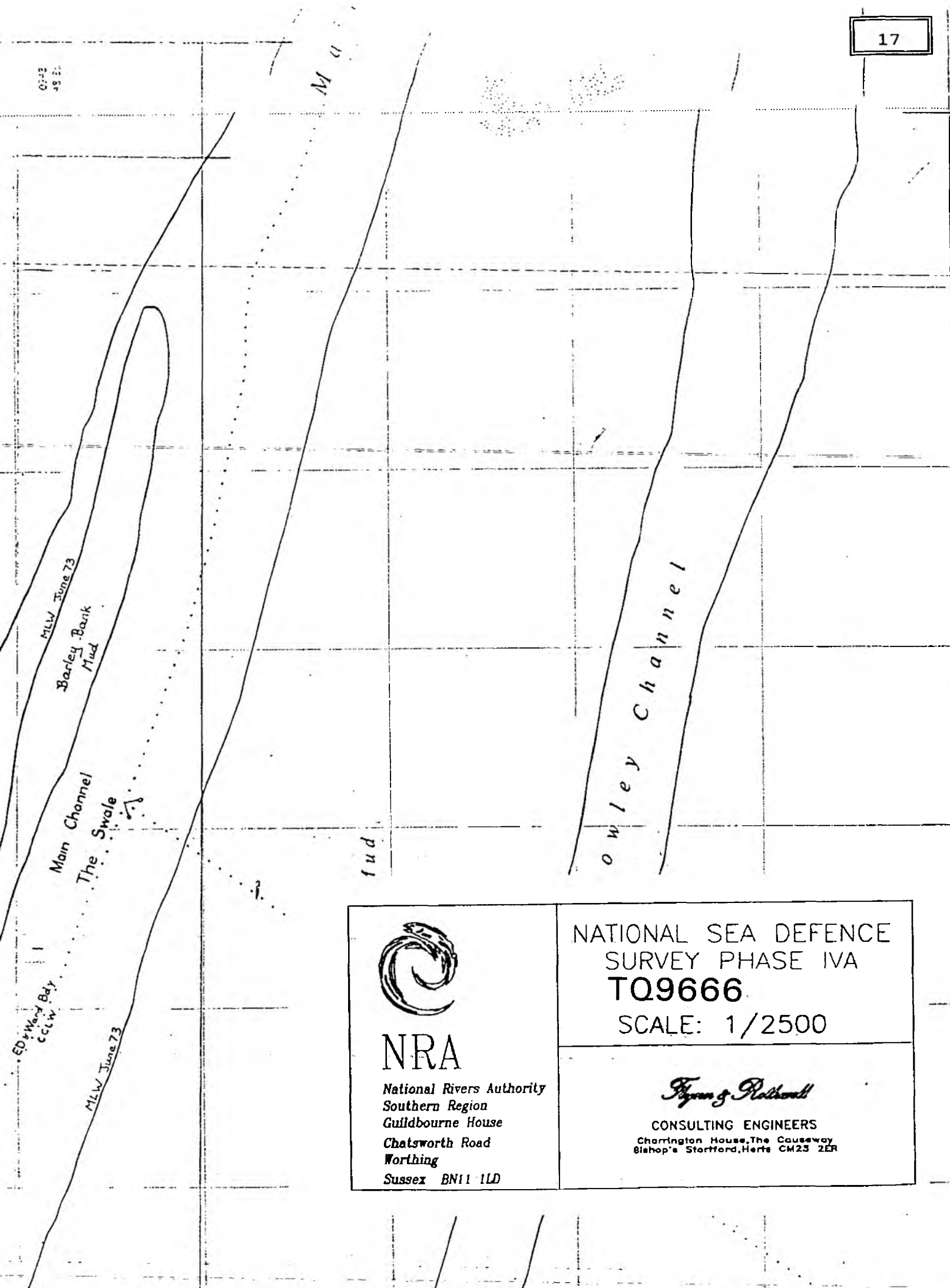
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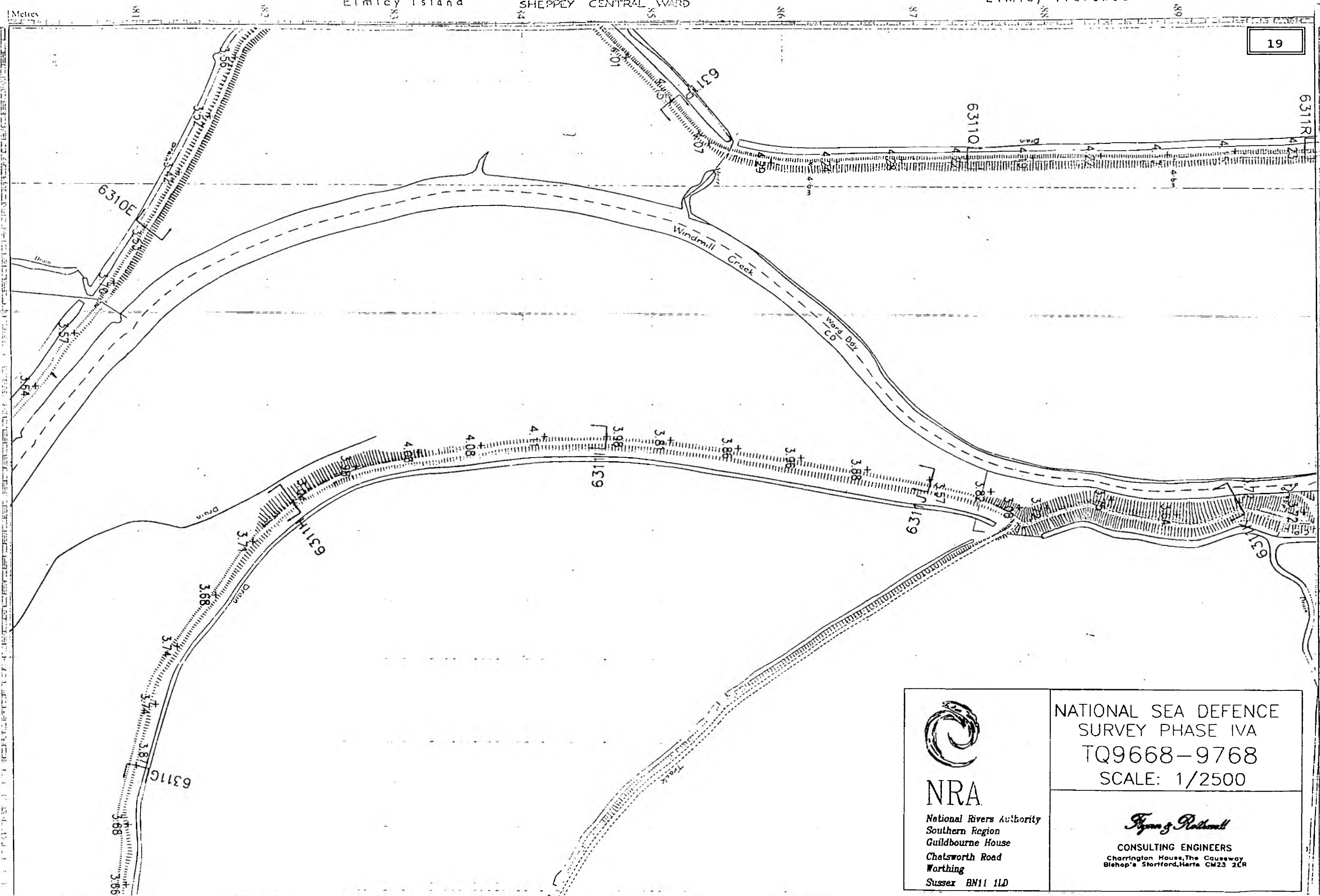
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Figure of Rathenall

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CCLW MLW June 1973
 Ed & Ward Bdy The Swale
 Main Channel

Mud

Mud

Fowley Channel

Mud



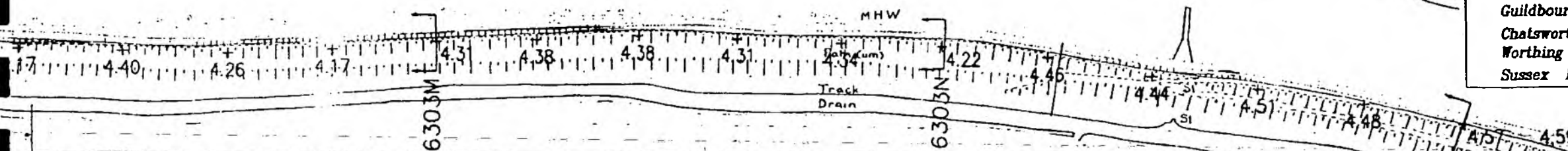
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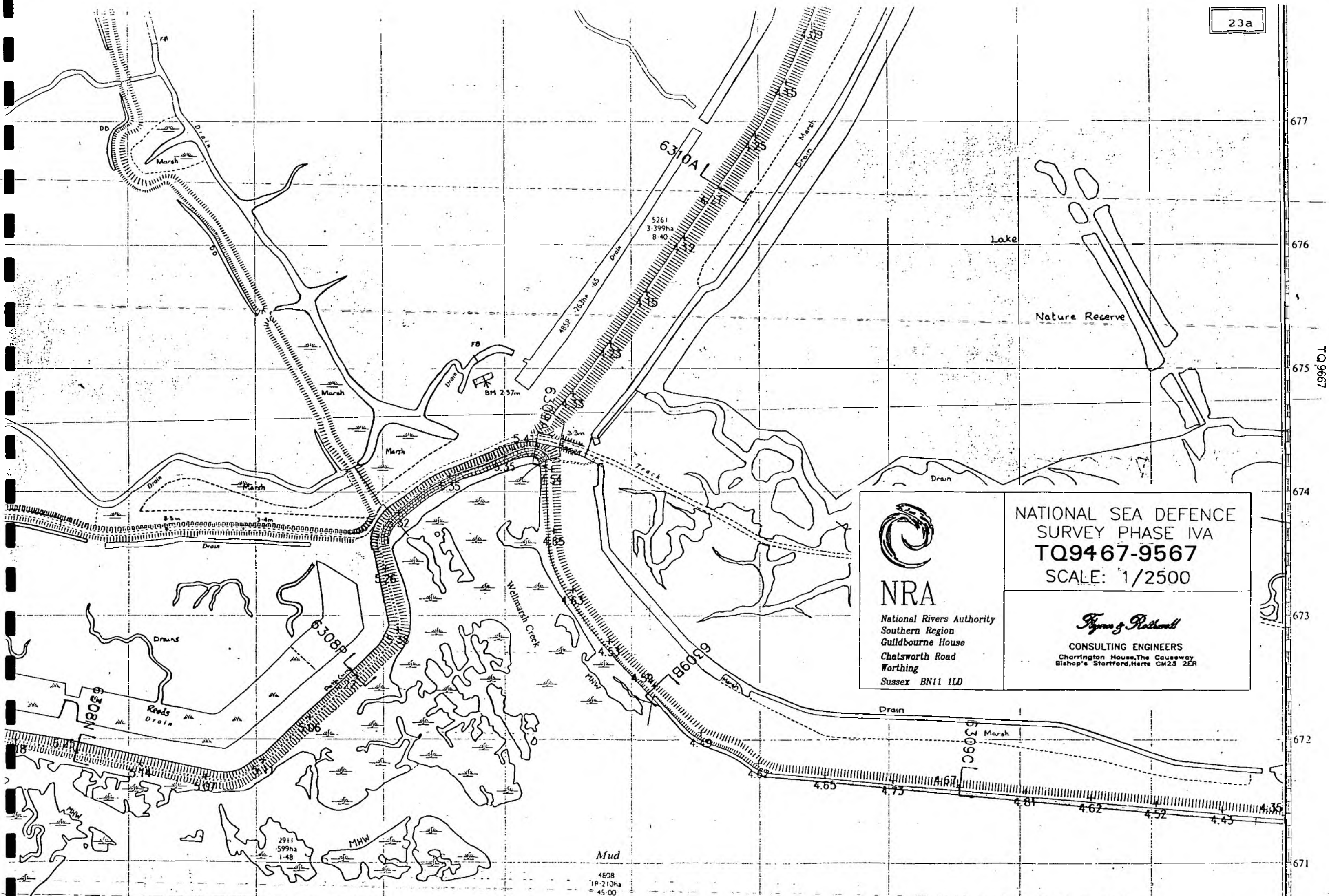
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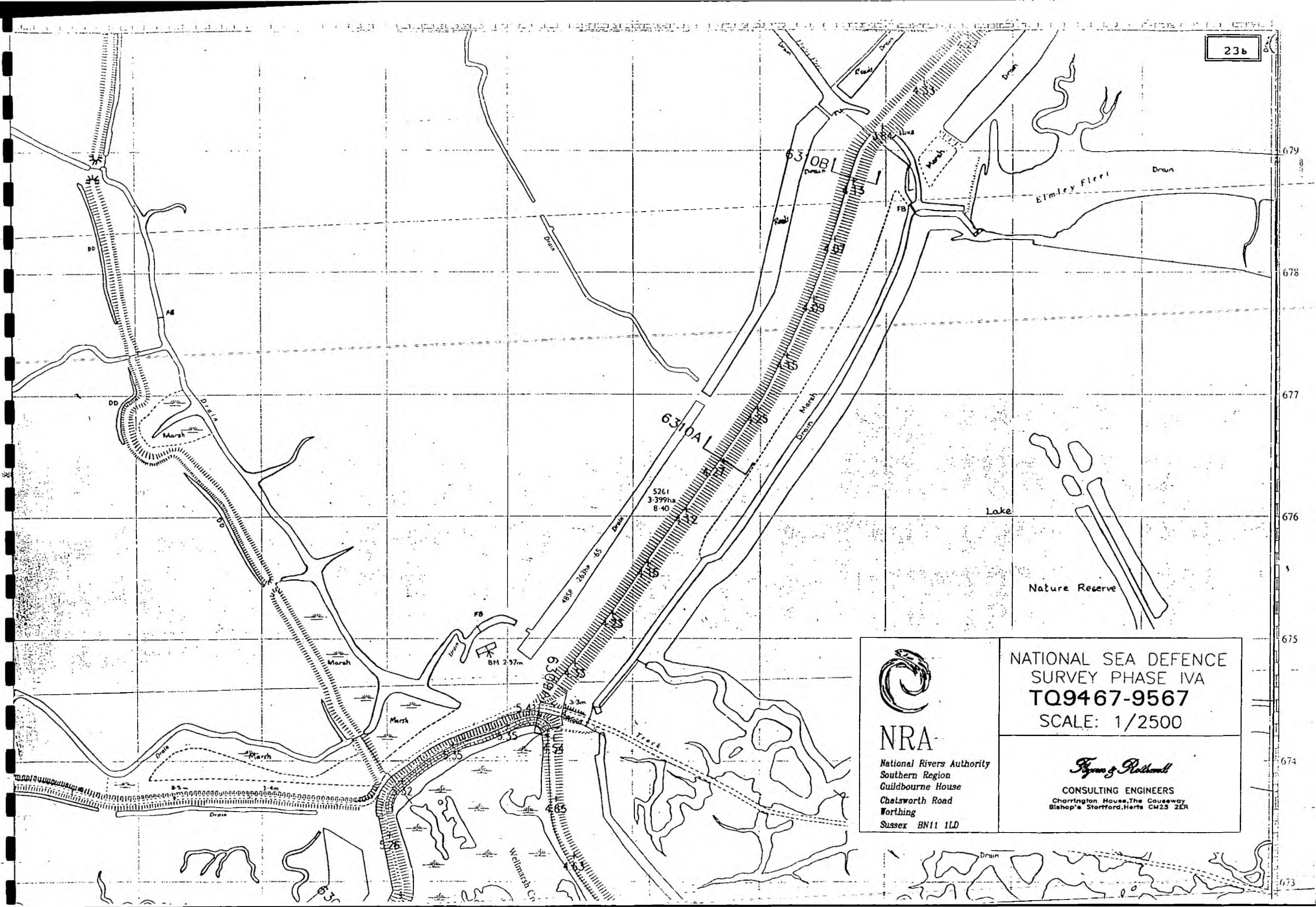
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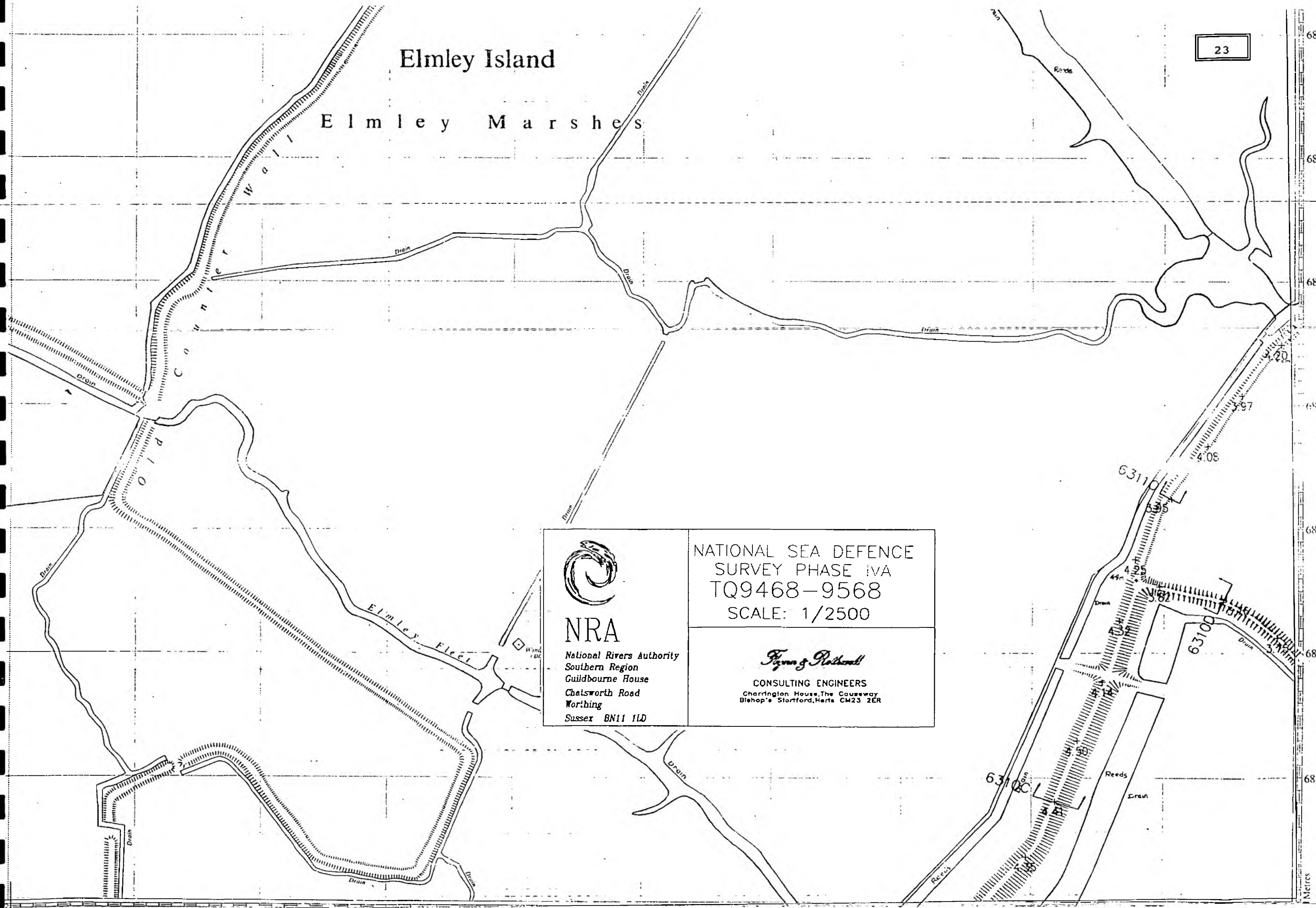
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Elmley Island

Elmley Marshes



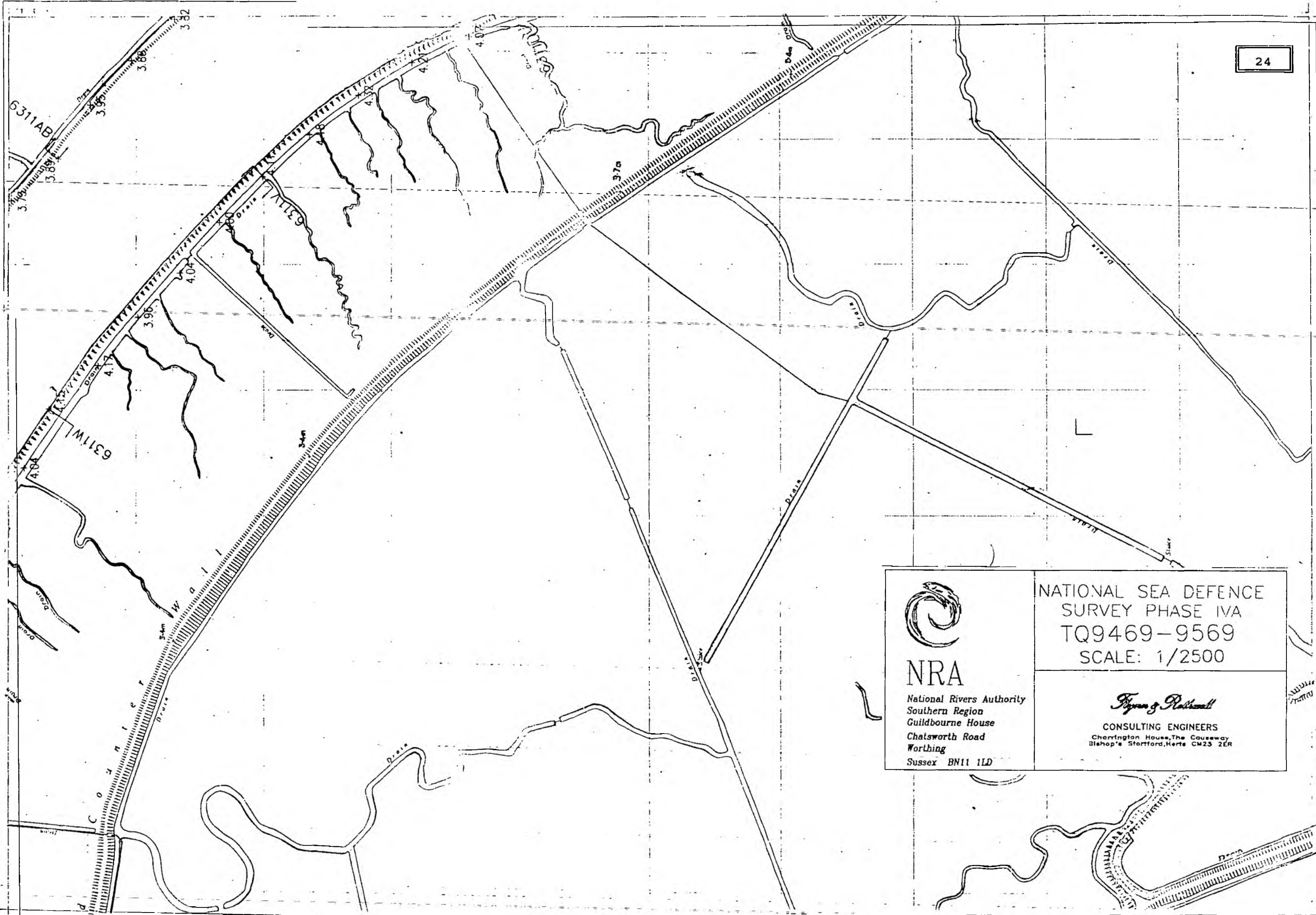
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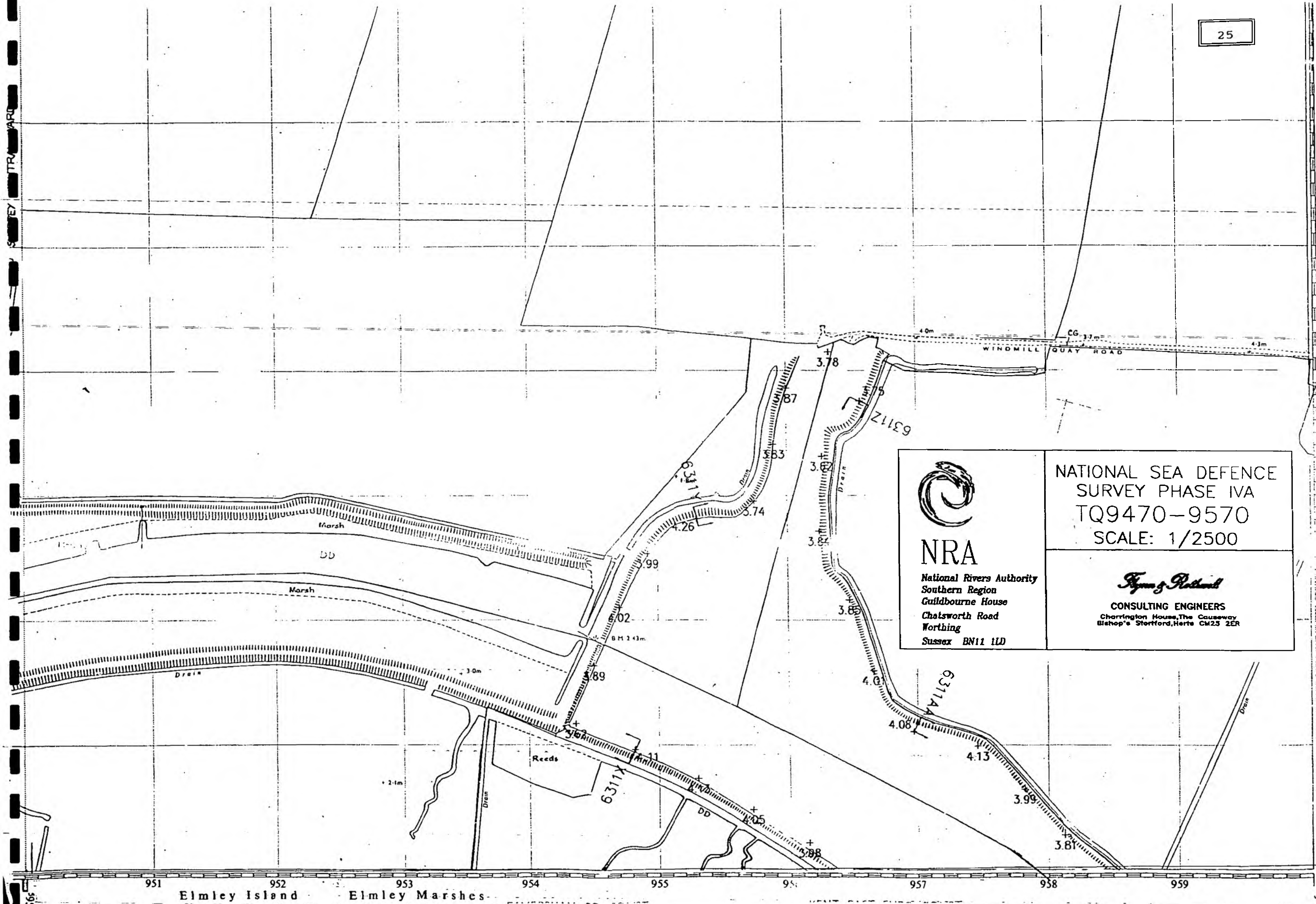
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MLW June 1973

The Swale
Main Channel

CCLW

MLW June 1973

ED & Ward Bay

Folly Spit

Mud



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TQ 9366

WEST DOWNS WARD

664

663

SWALE WEST ED

662

661

166000

Metres

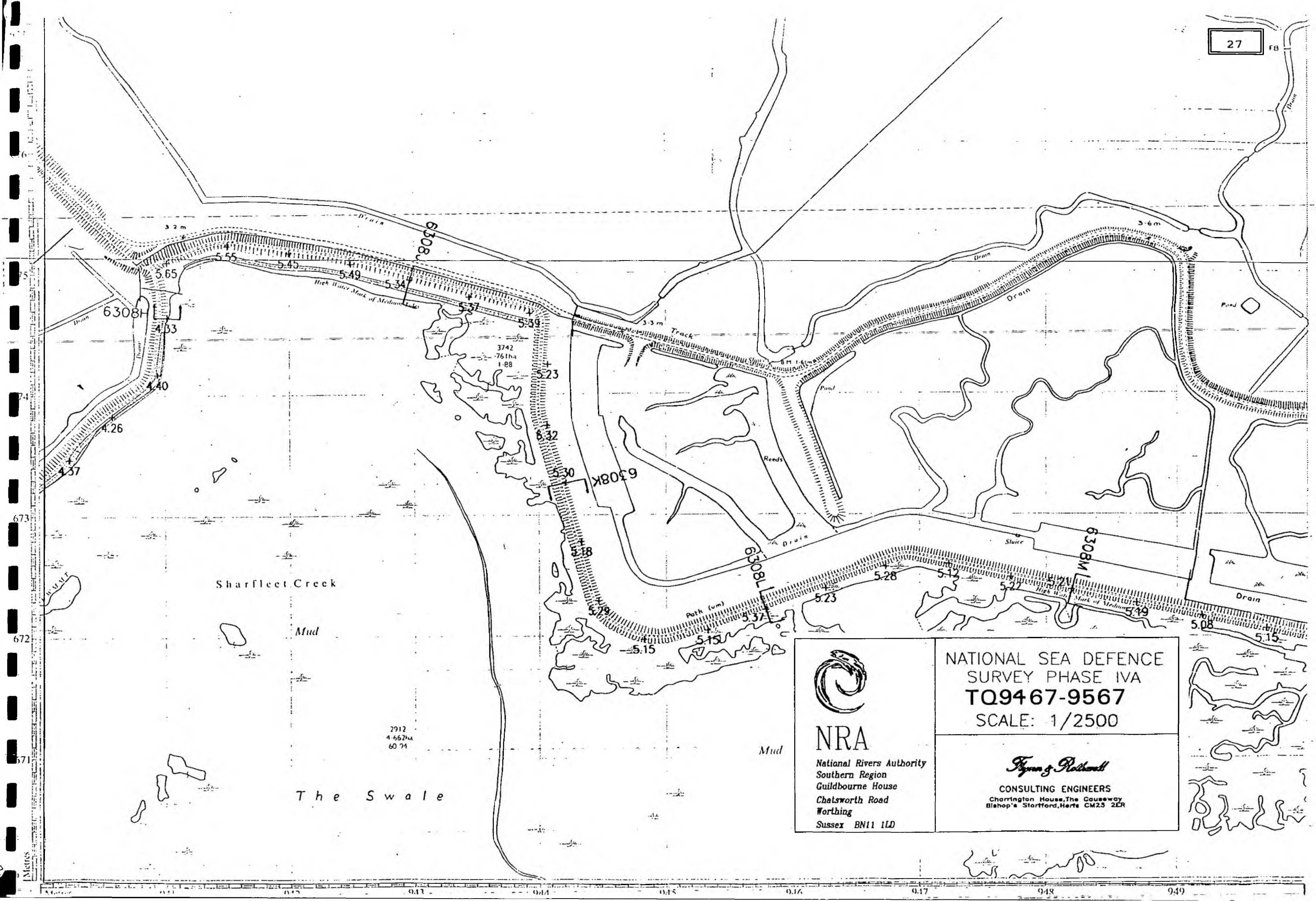
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Drain Reeds

High Water Mark at Station

7700
1:09

6303L



Sharfleet Creek

Mud

The Swale

2912
4.662ha
60.71

3742
761ha
1.88

Mud



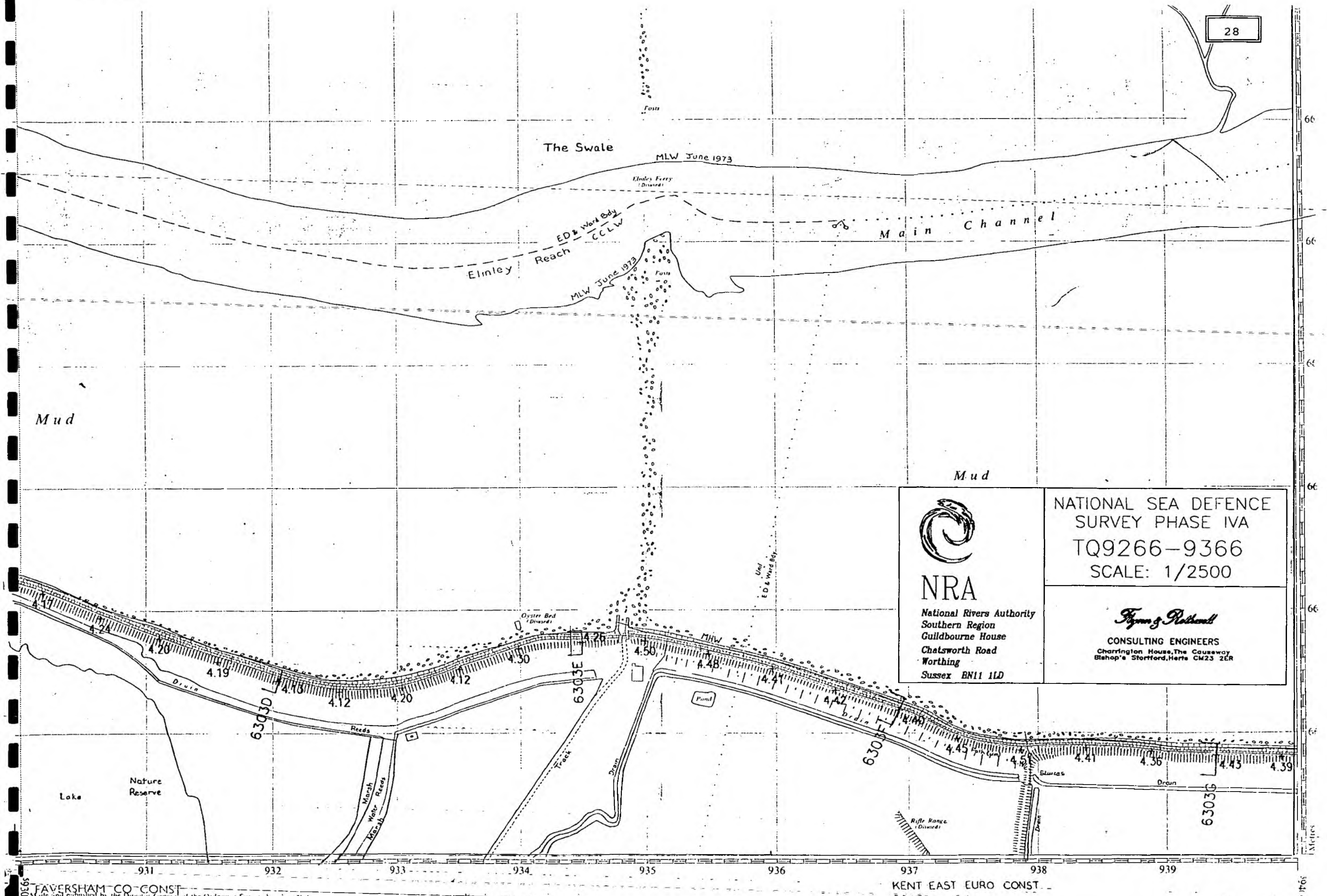
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931 SWALE DISTRICT

932 Elmley Marshes

933

Elmley Island

934

ISLE OF SHEPPY

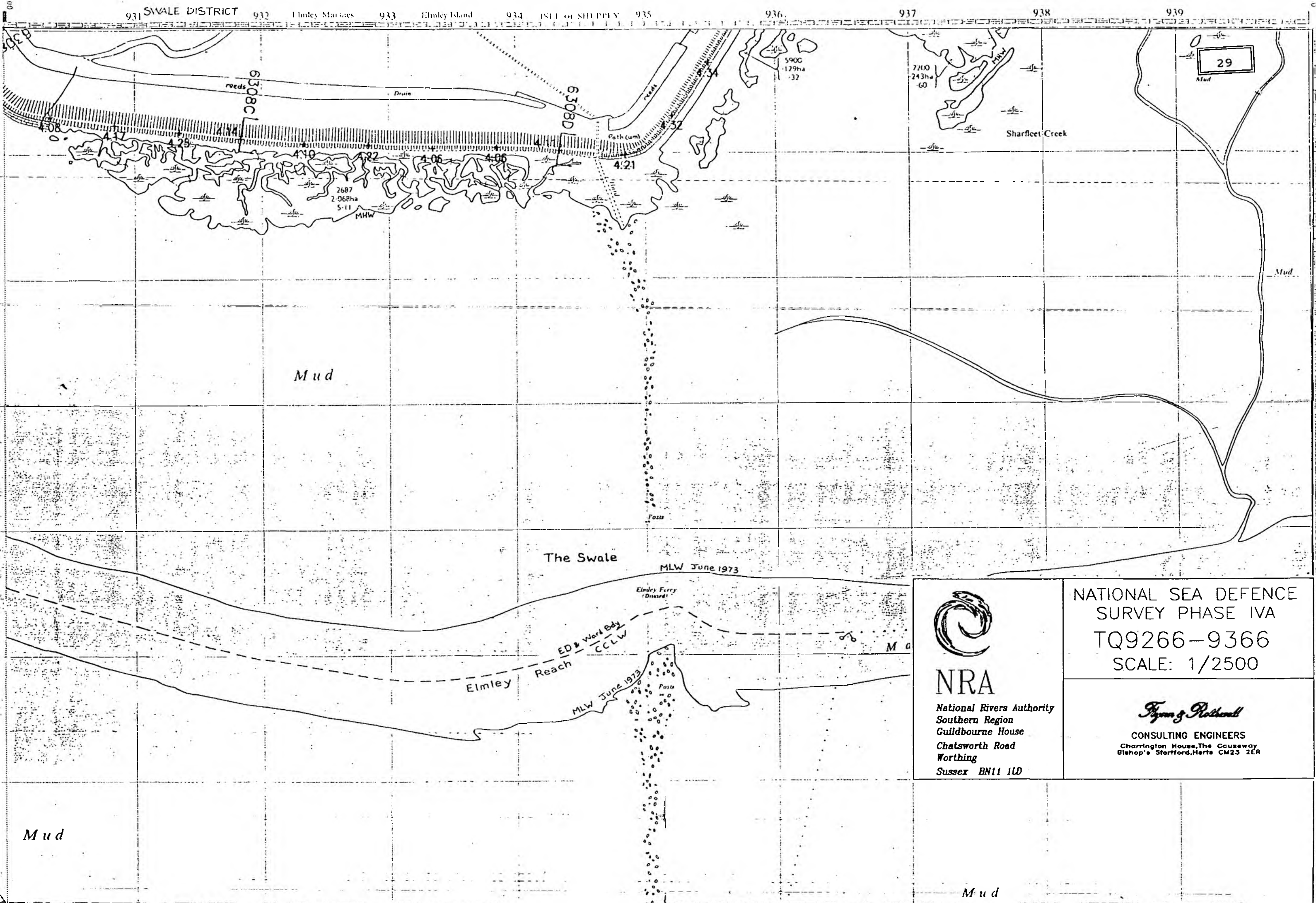
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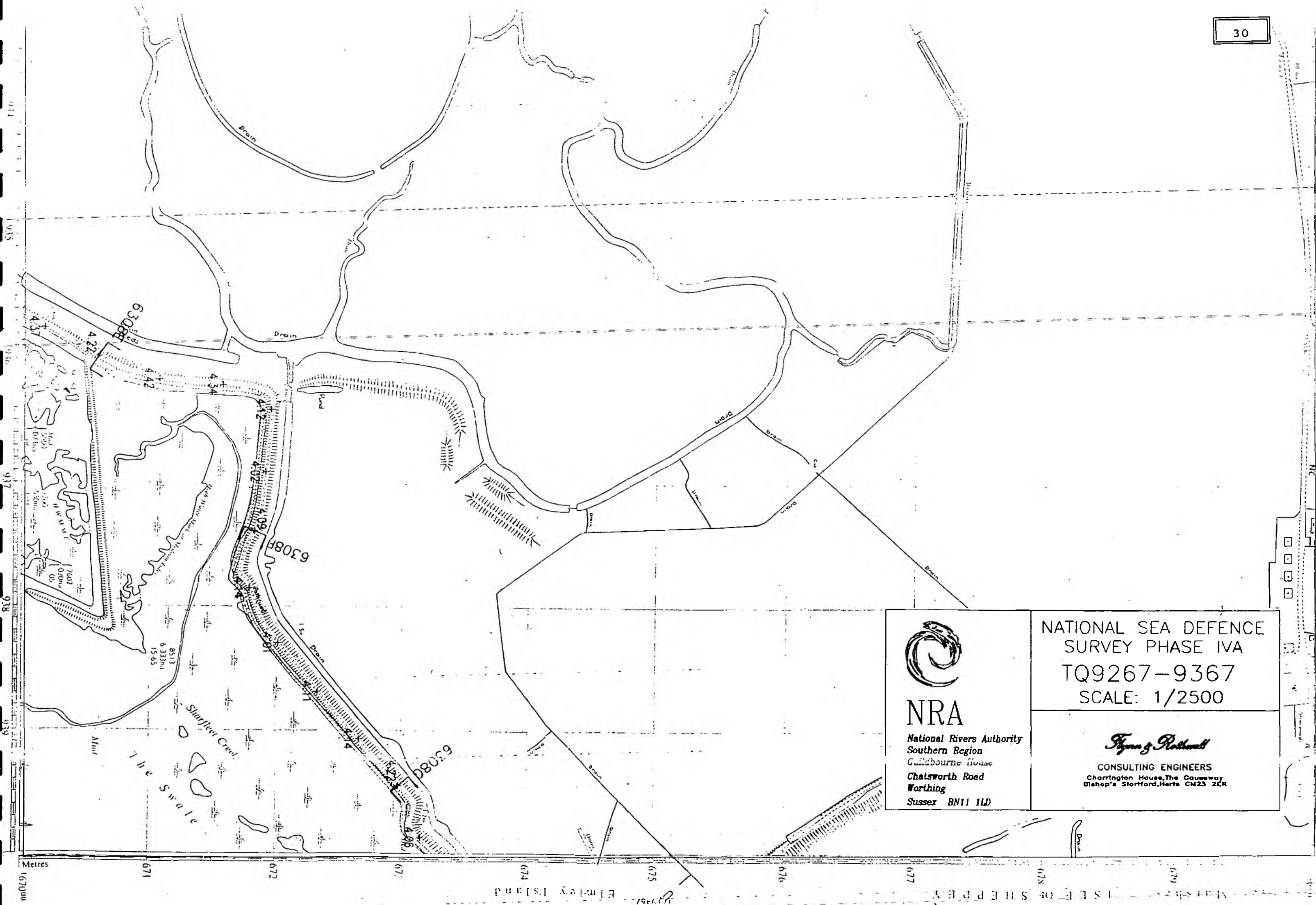
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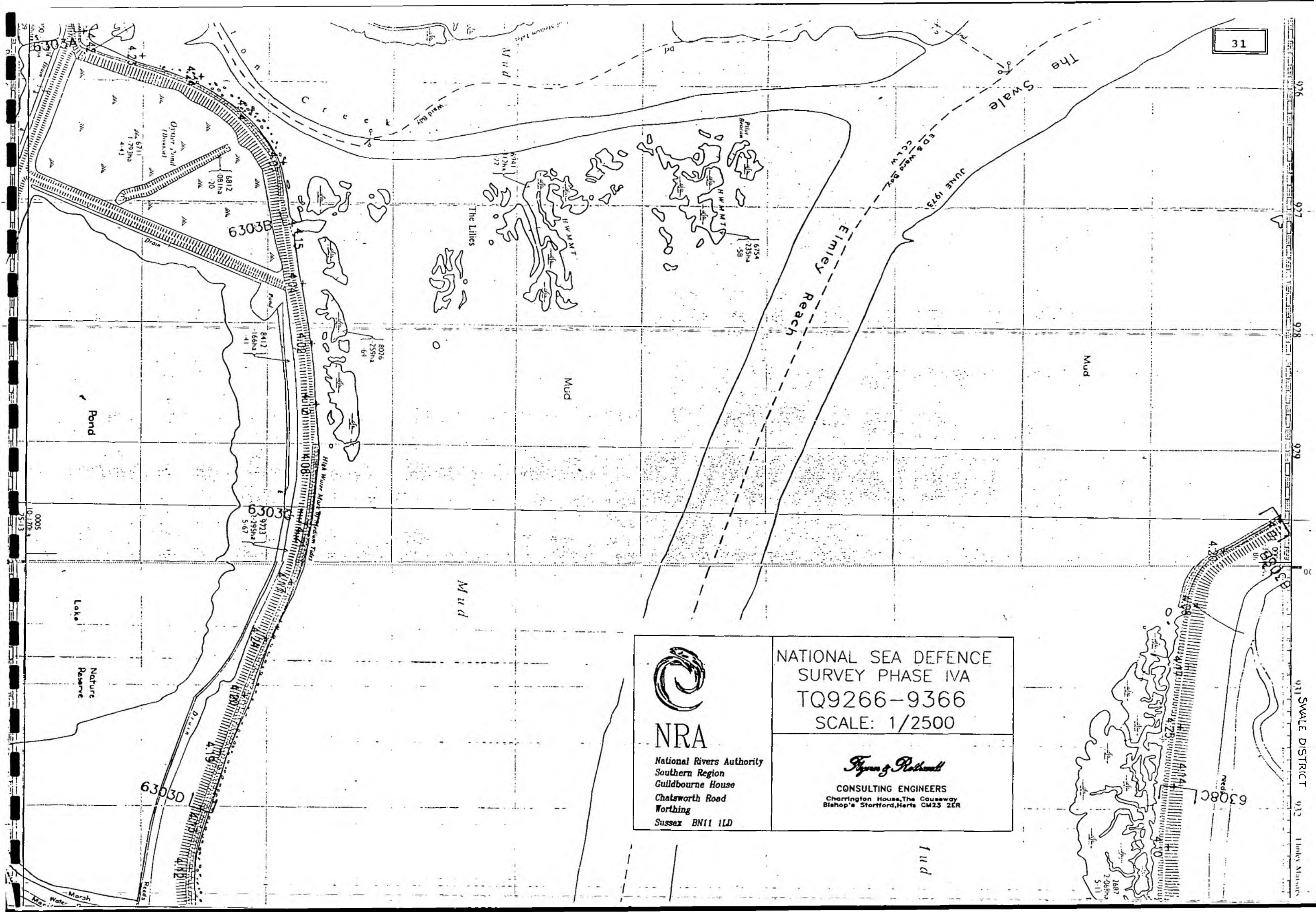
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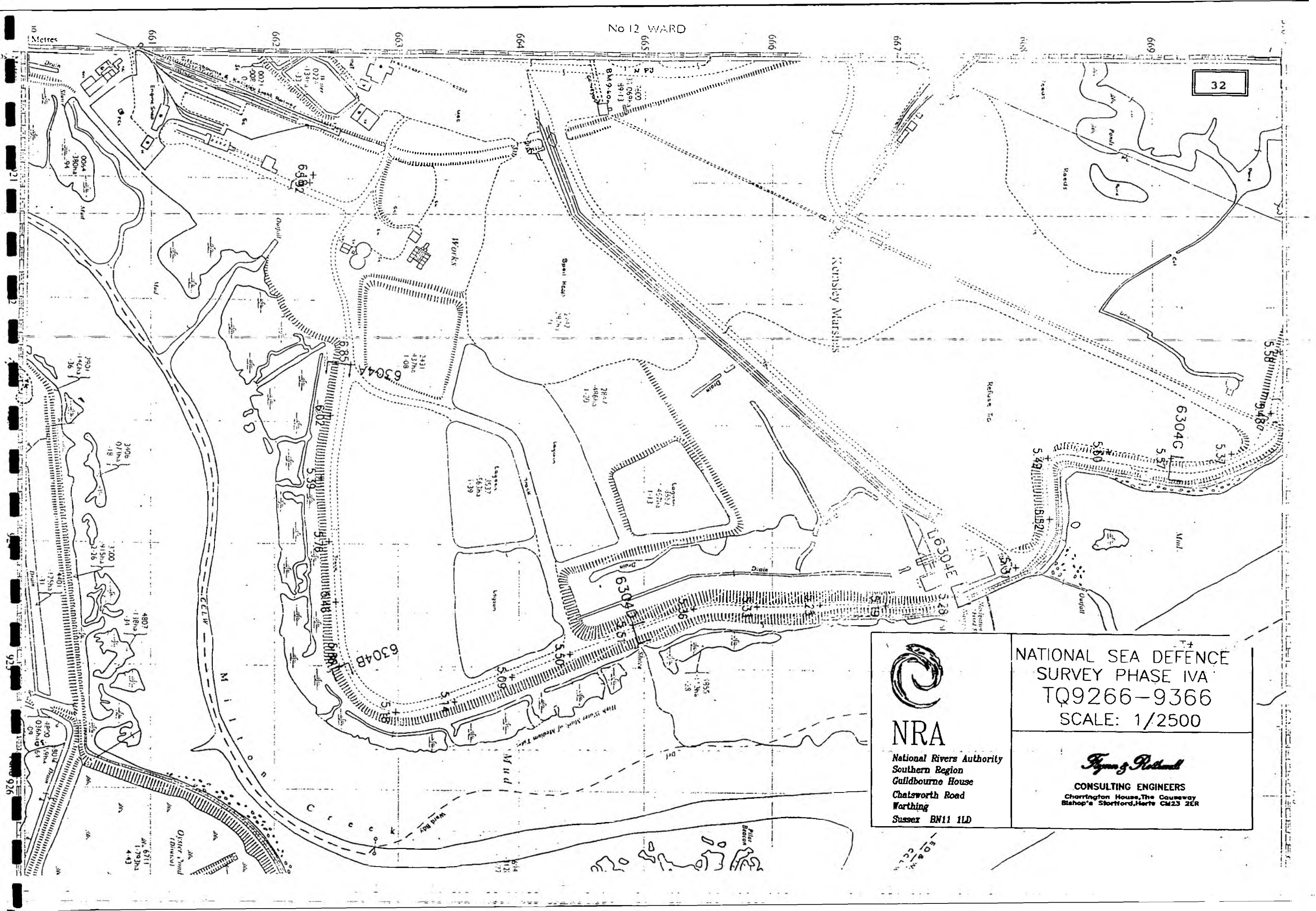
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Figure 3

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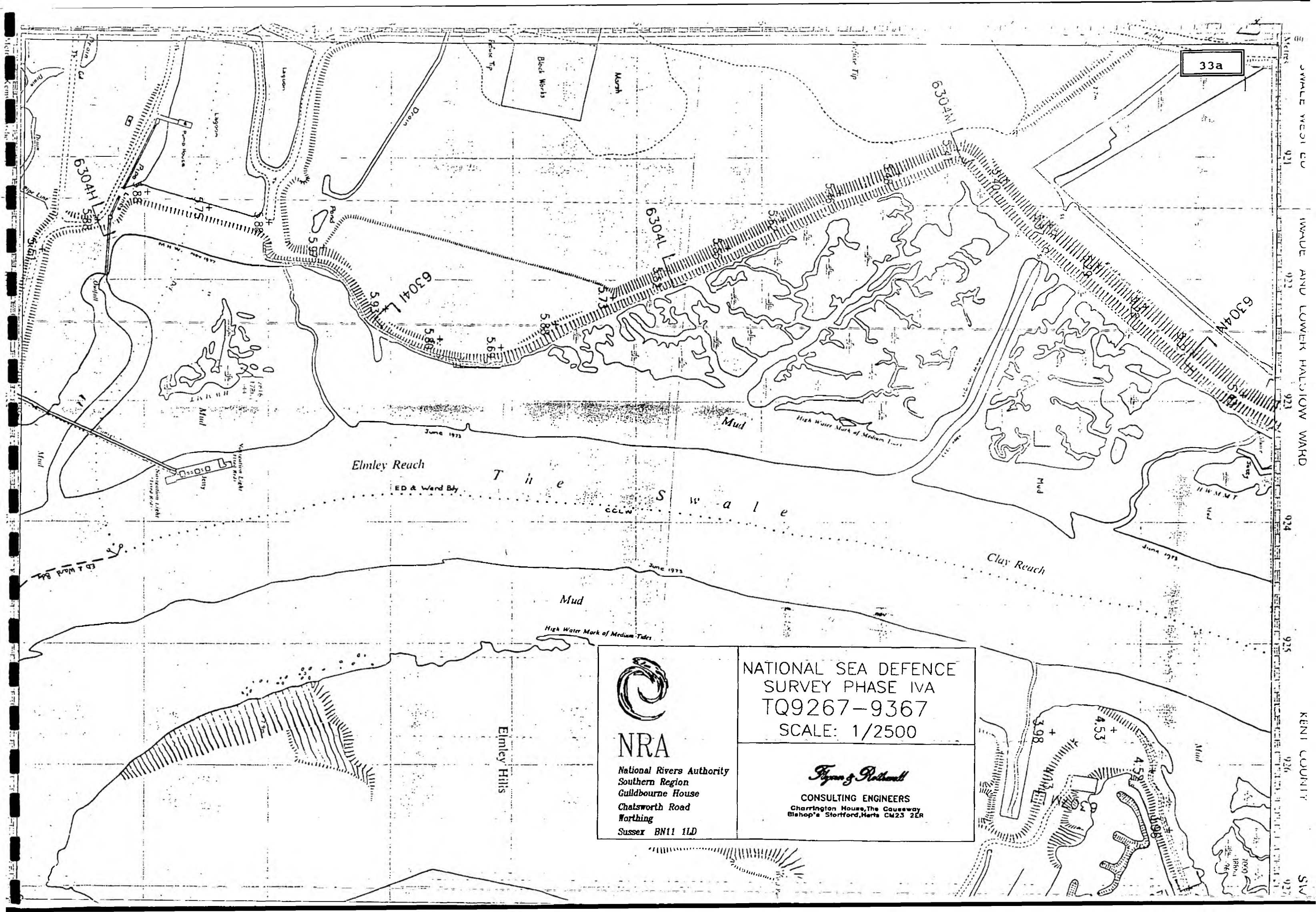
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33a

SWALE AND LOWER HALLOW WARD
KENT COUNTY
SW



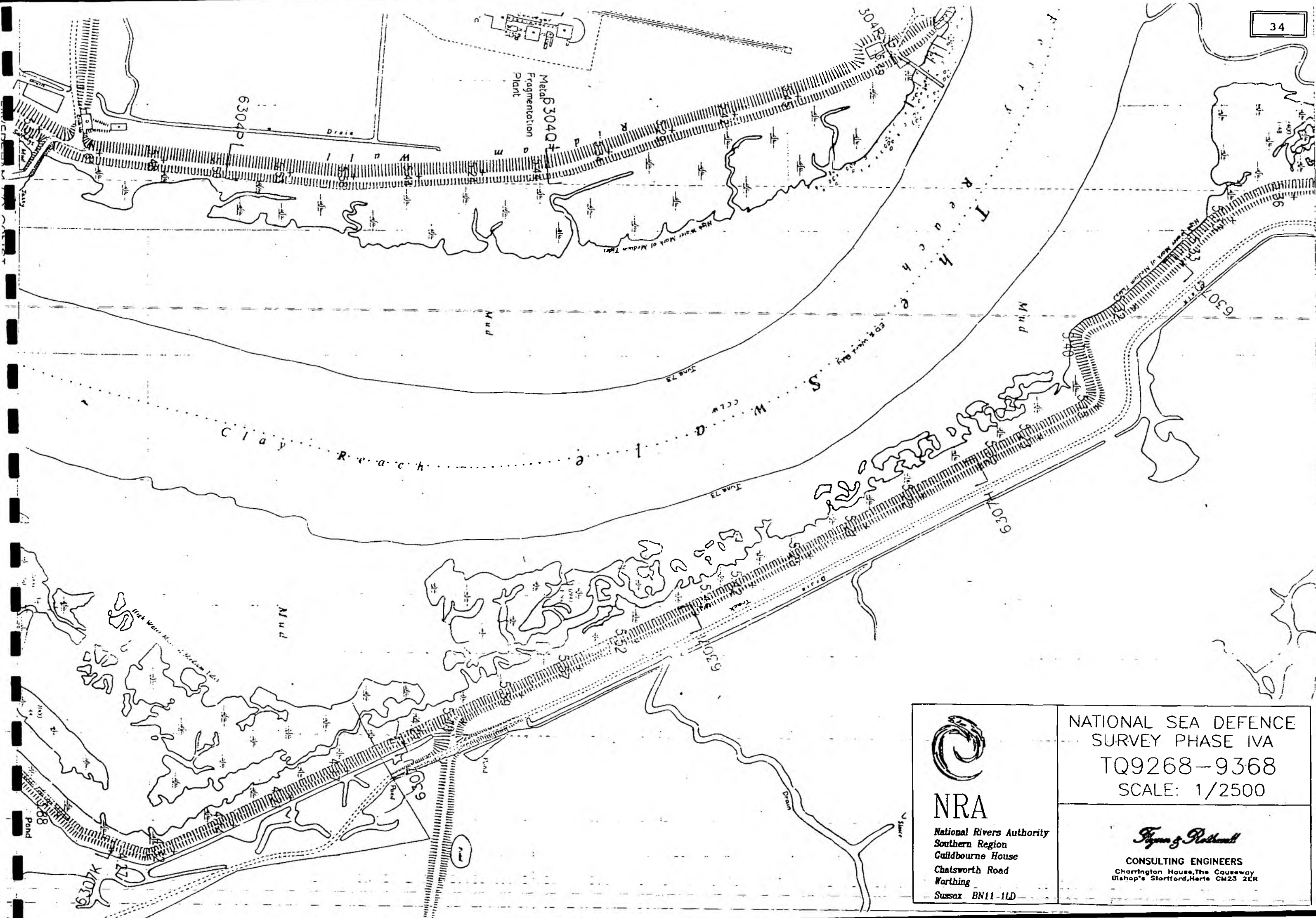
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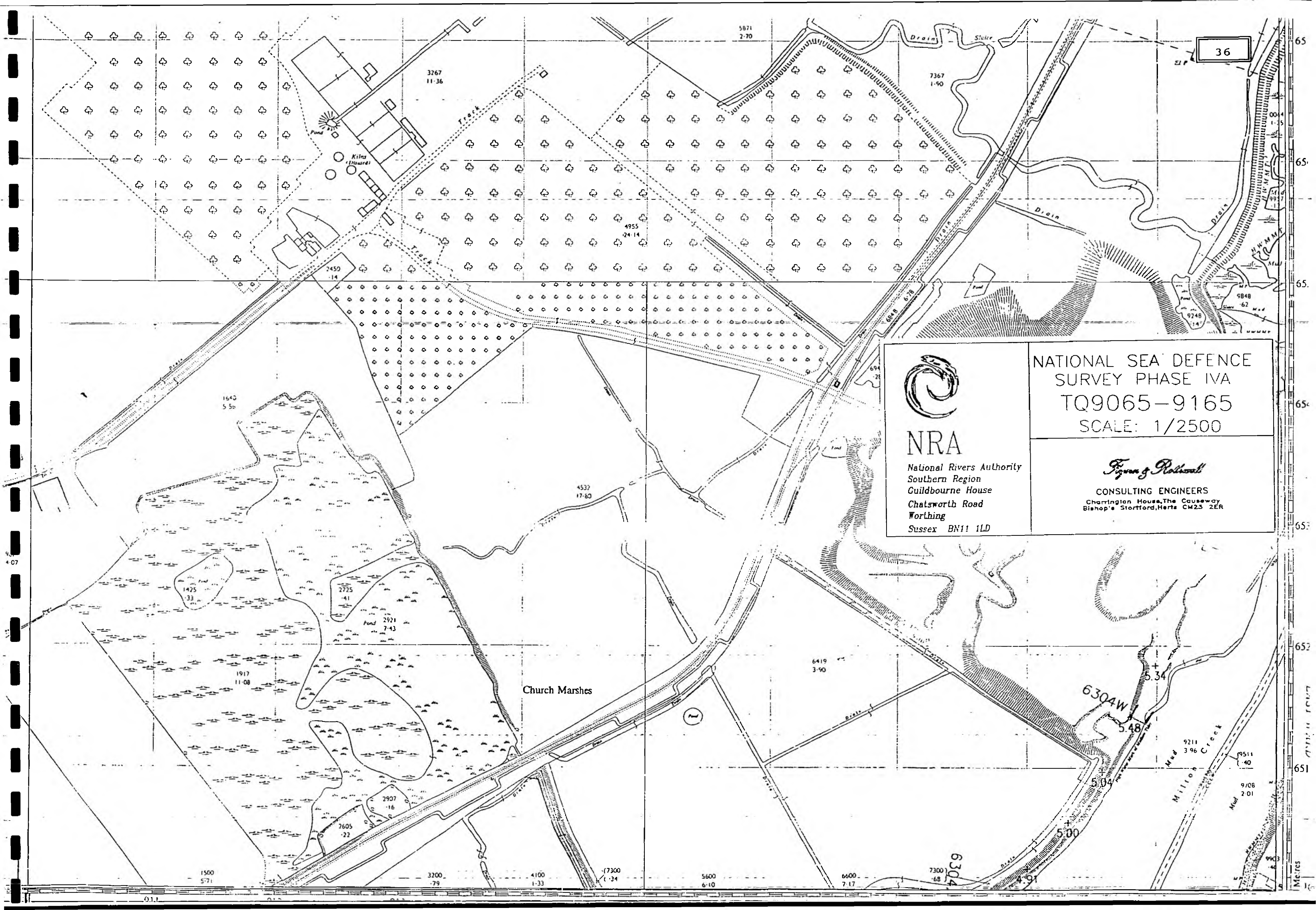
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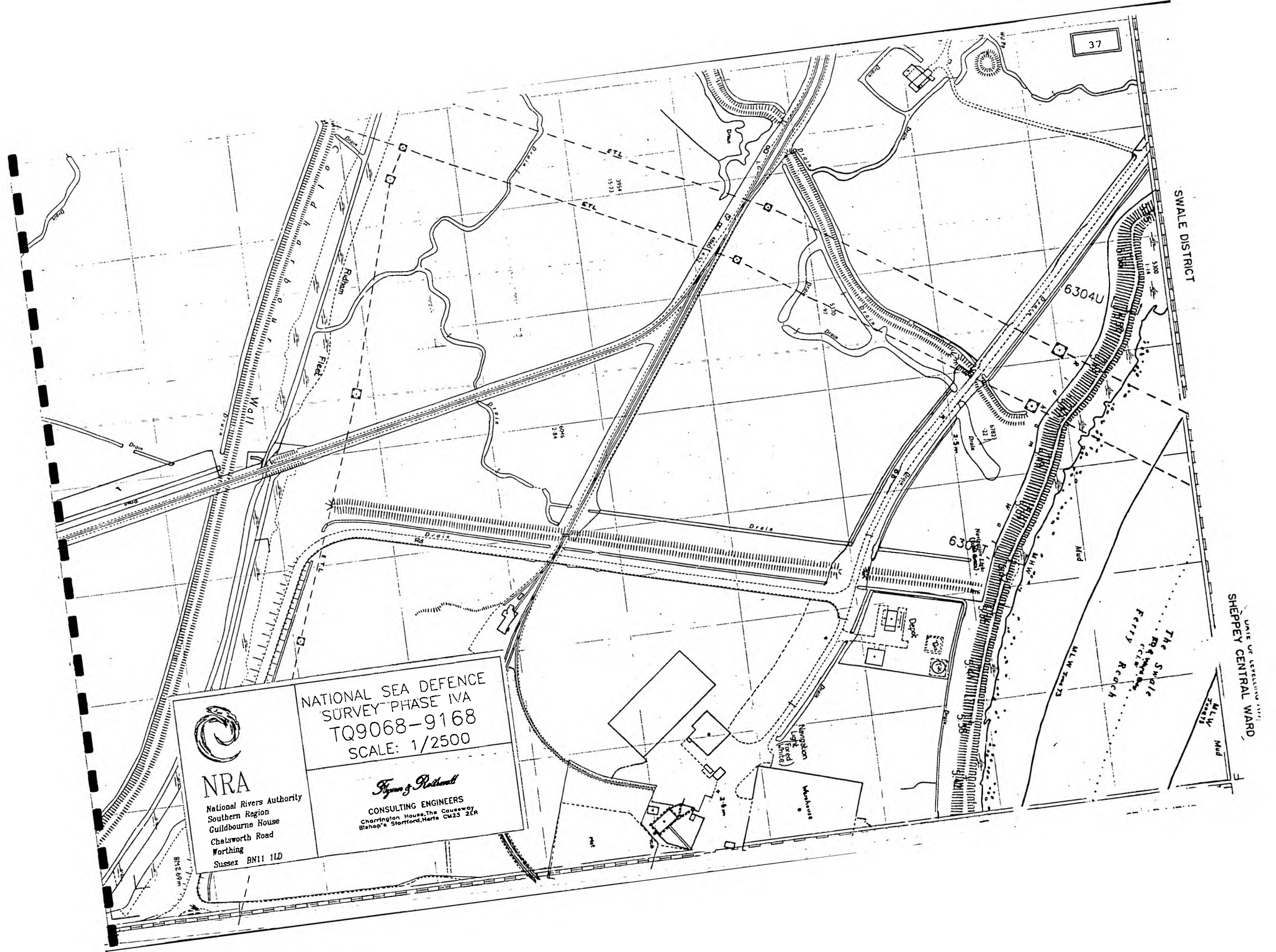
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Church Marshes

6304W

Millon Creek



SWALE DISTRICT

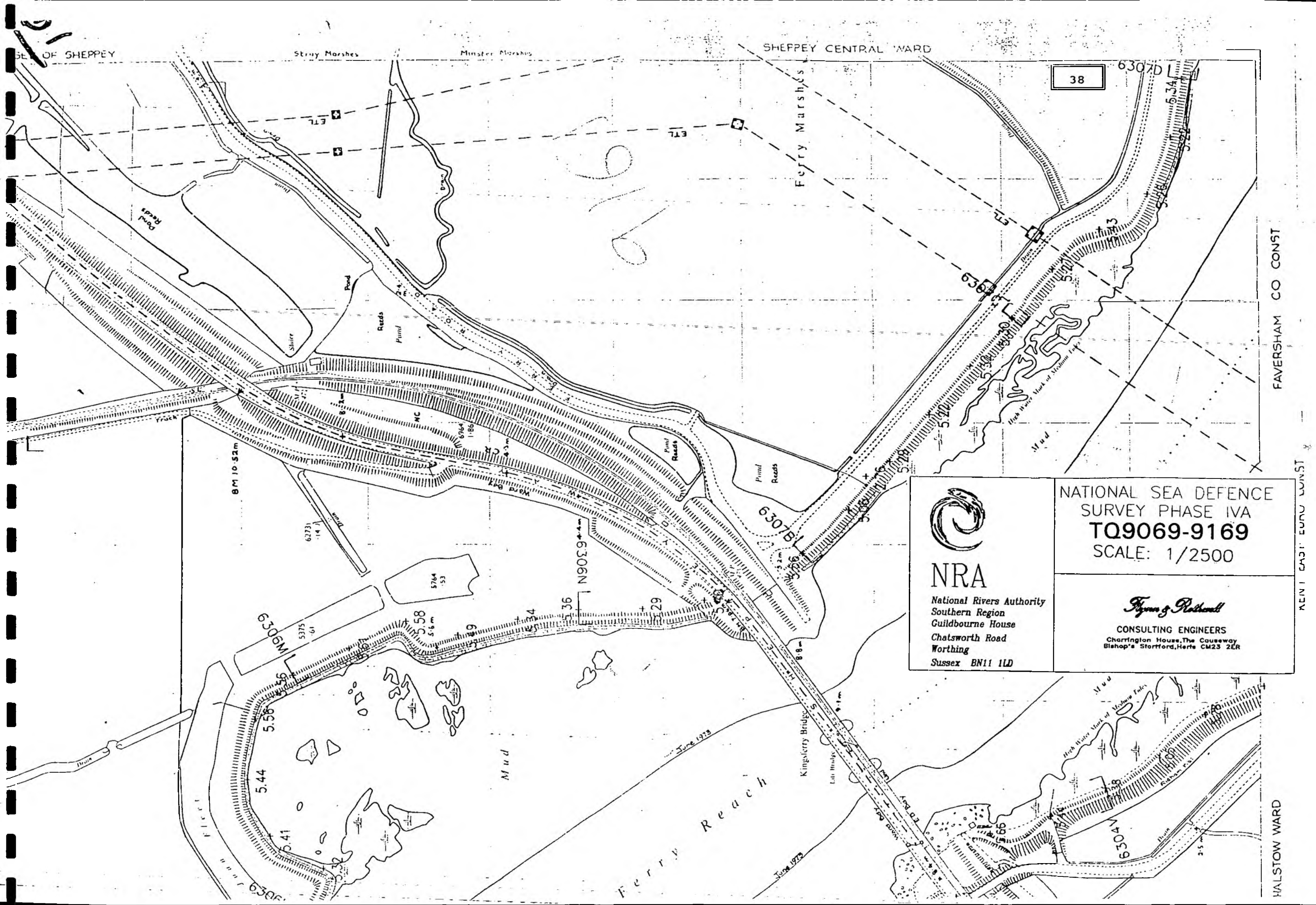
UNIT OF LEVELLING 1971
SHEPPEY CENTRAL WARD



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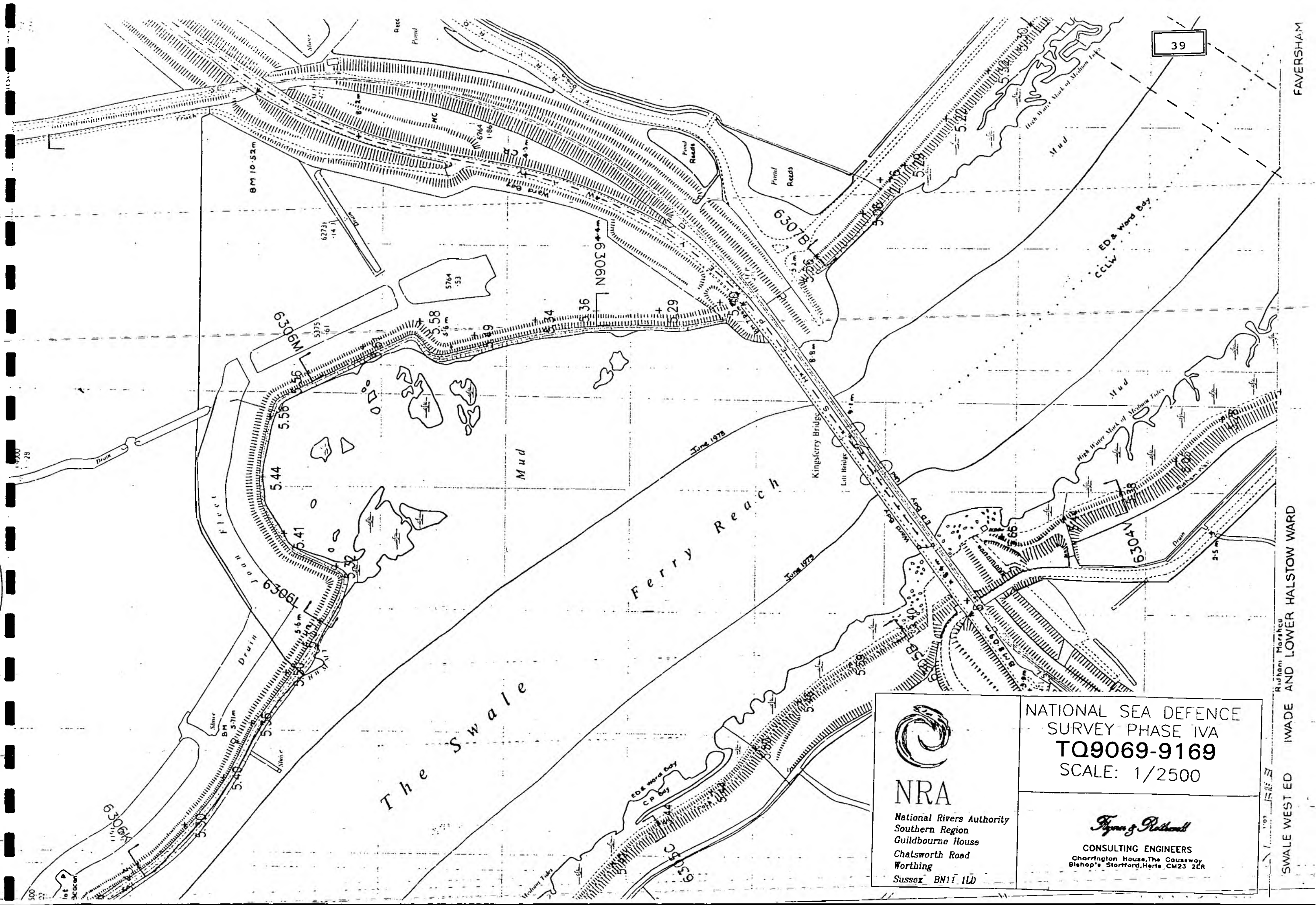
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FAVERSHAM CO CONST

HALSTOW WARD

KENT EAST EURO UNIST



39

FAVERSHAM

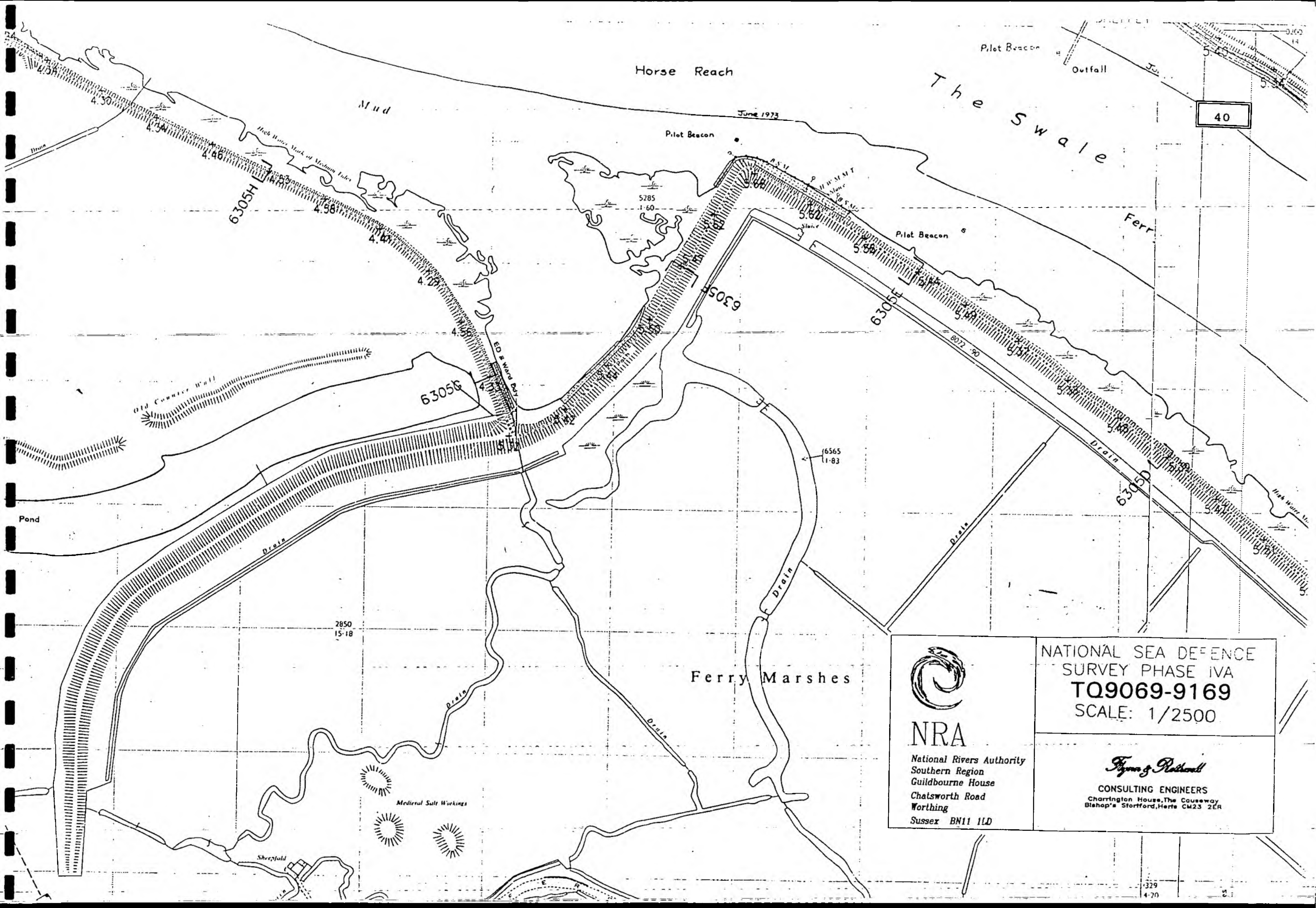
SWALE WEST ED IWADE AND LOWER HALSTOW WARD



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Horse Reach

June 1973

Pilot Beacon

Pilot Beacon

Outfall

40

The Swale

Ferry

Pilot Beacon

6305G

6305G

6305E

6305D

Pond

2850
15.18

6565
11.83

Ferry Marshes



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA
TQ9069-9169
SCALE: 1/2500

Fry & Pattison

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

329
4.70

0070
37-52

3009

0056
4-28

41

Joan

Flee

Sewage Works

Sedimentation Tanks

8151
27-85

El. Sub Sta

South Marsh

Drain

4219
30-23
Mud

The Swale
Horse Reach
2908
27-99
June 1973

0703
2-38
Mud



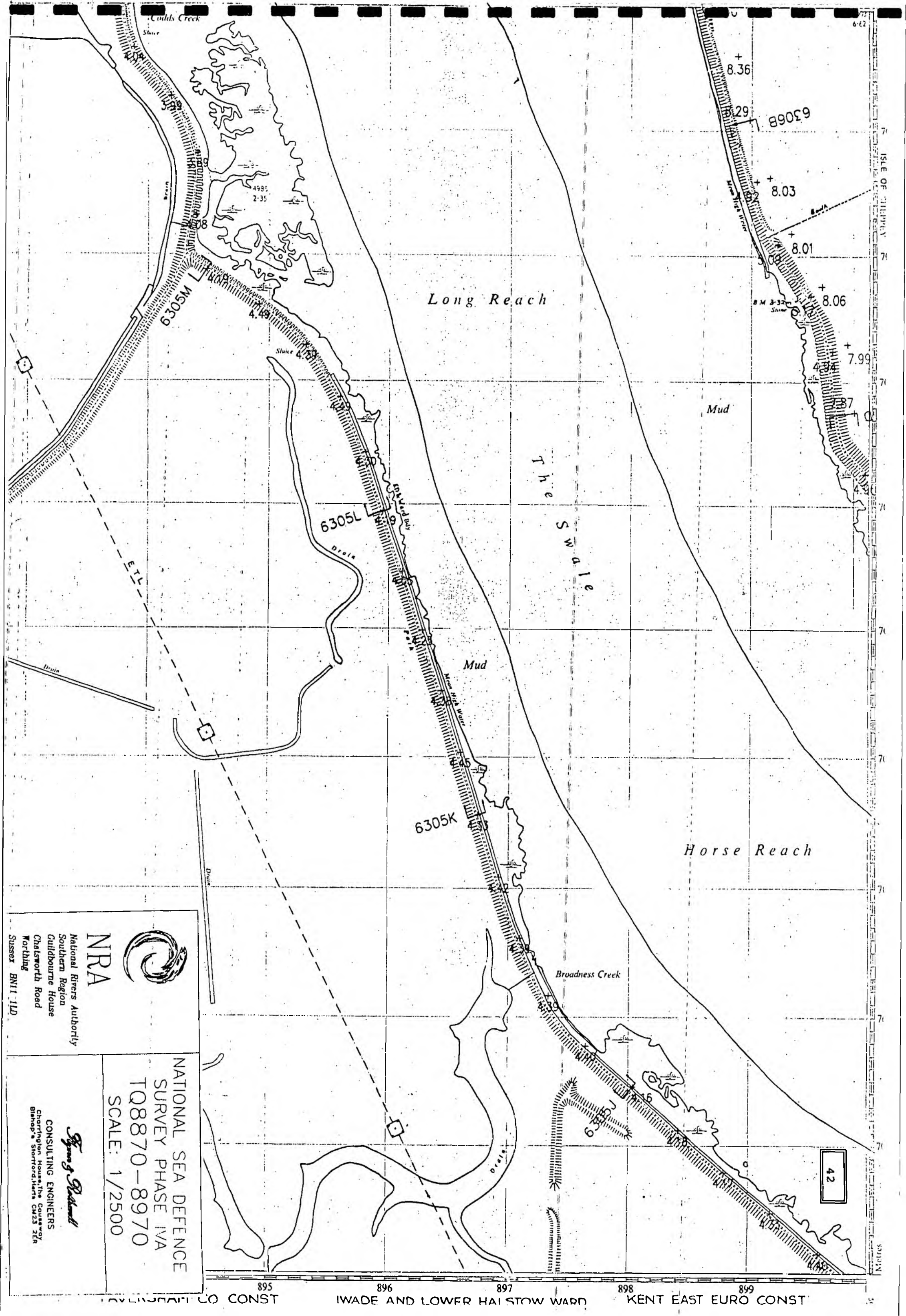
NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA
TQ9070-9170
SCALE: 1/2500

Fynn & Rothwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

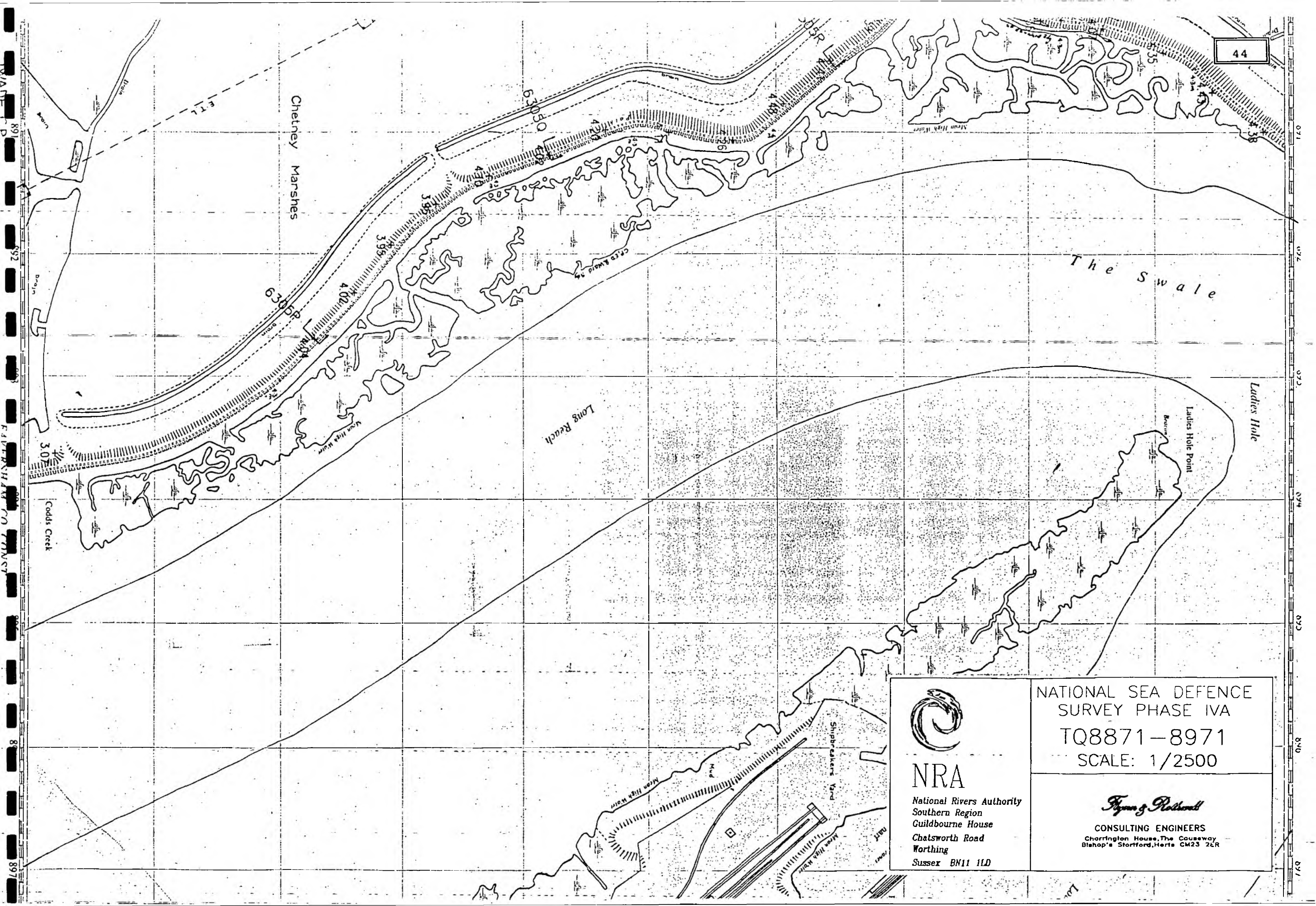




NRA
National Rivers Authority
Southern Region
Guildbourne House
Chelworth Road
Worthing
Sussex BN11 1LD

**NATIONAL SEA DEFENCE
SURVEY PHASE IVA
TQ8870-8970
SCALE: 1/2500**

Spence & Platt
CONSULTING ENGINEERS
Charrington House, The Causeway,
Blenhope, Storrford, Here, CW23 2ER



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

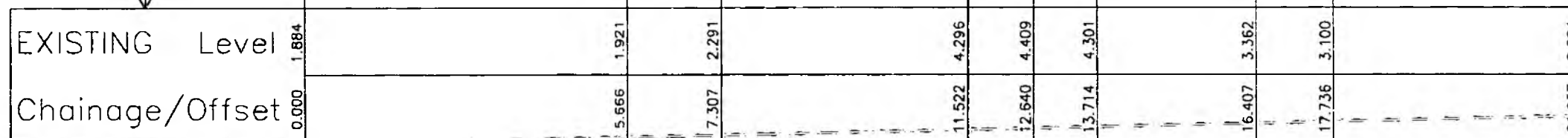
NATIONAL SEA DEFENCE
SURVEY PHASE IVA
TQ8871-8971
SCALE: 1/2500

Hyman & Rothwell

CONSULTING ENGINEERS
Chorlington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

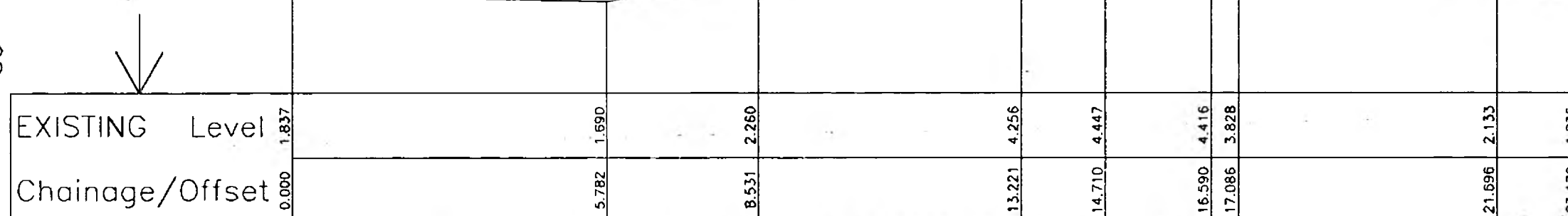
DRAWINGS SHOWING THE CROSS SECTIONS

6301A

0.00
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Horiz. = 1:100 Vert. = 1:100

6301B

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

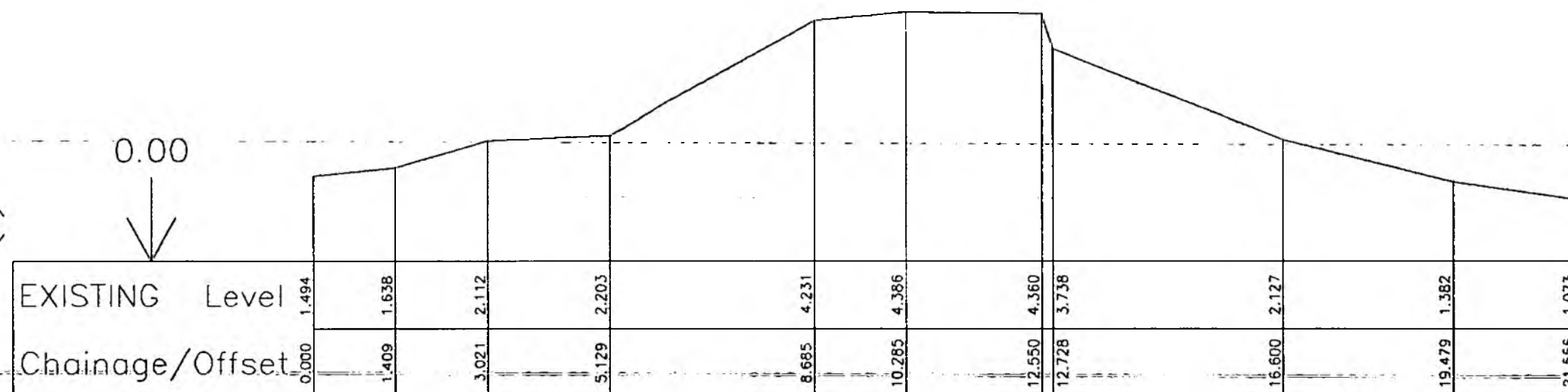
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

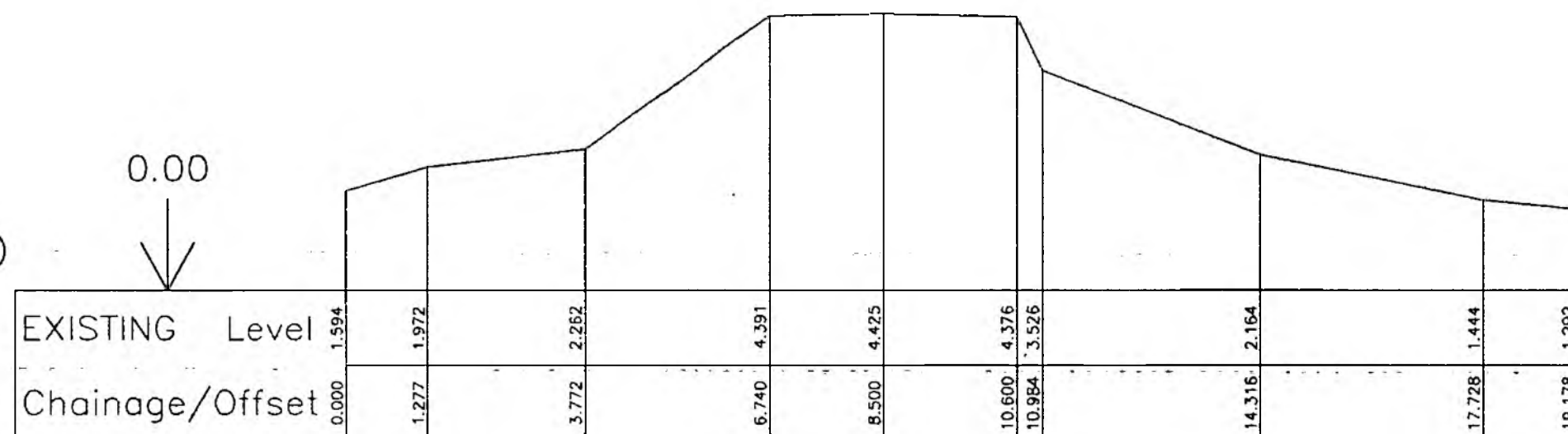
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Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6301C

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Horiz. = 1:100 Vert. = 1:100

6301D

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

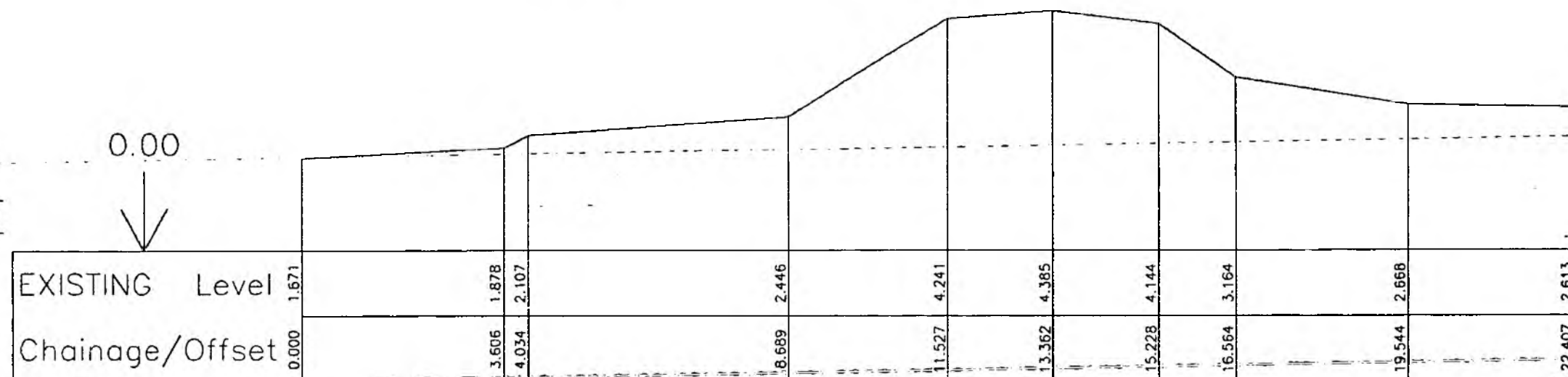
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

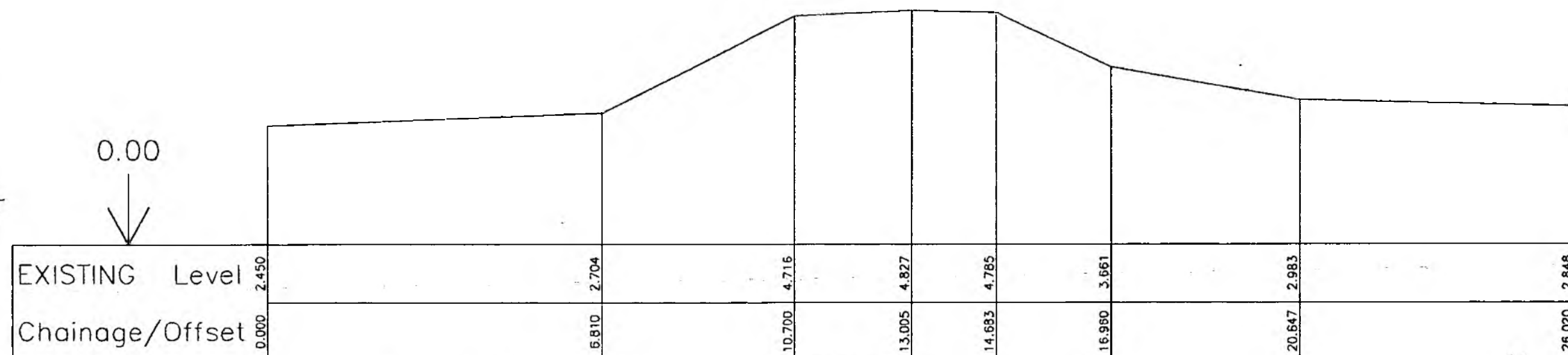
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Charrington House, The Causeway
Bishop's Cleeve, Shropshire CV23 2ER

6301E

0.00
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Horiz. = 1:100 Vert. = 1:100

6301F

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

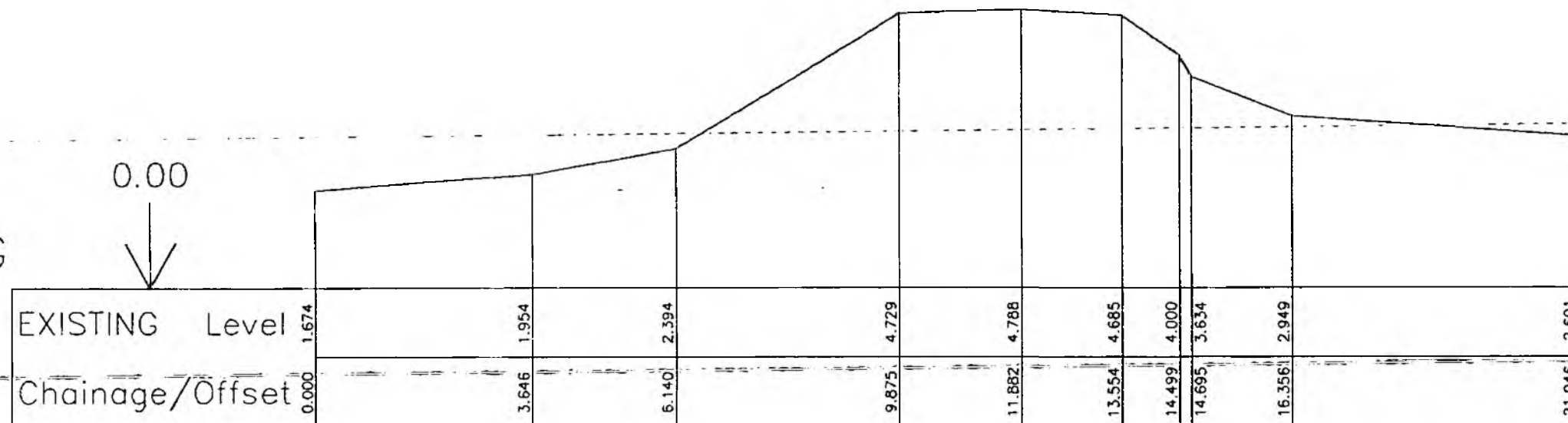
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6301G

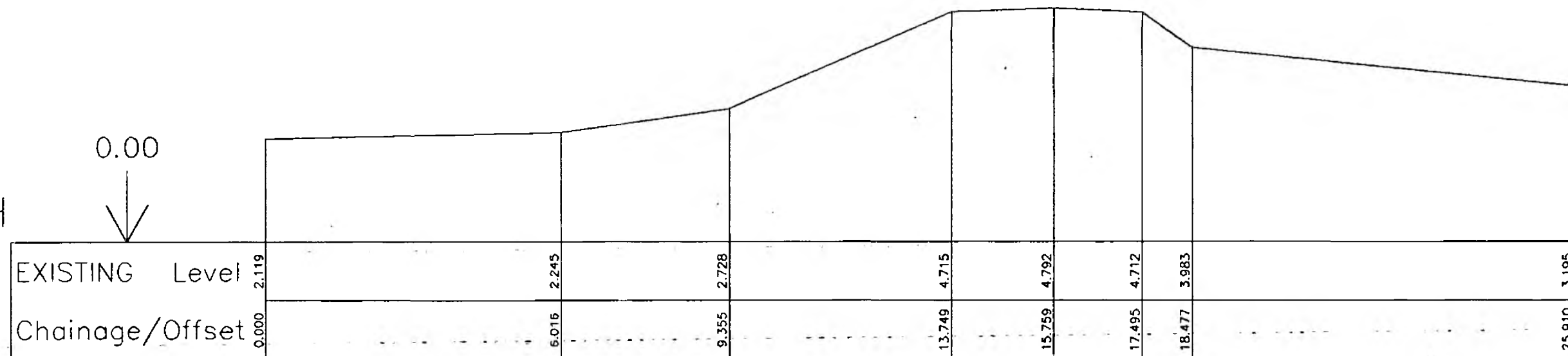
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Horiz. = 1:100 Vert. = 1:100

6301H

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

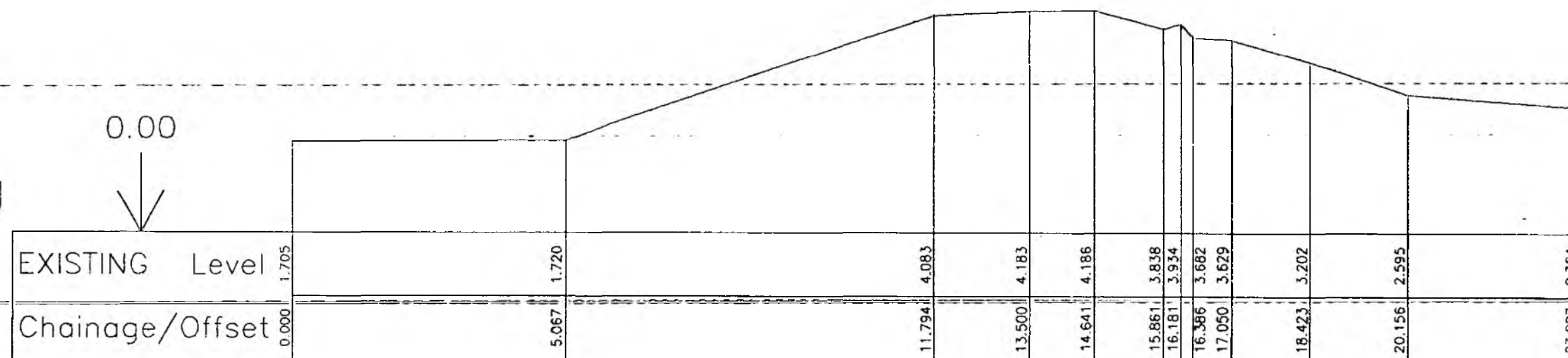
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SURVEY PHASE IVA

CROSS-SECTIONS

Hyman & Rothwell

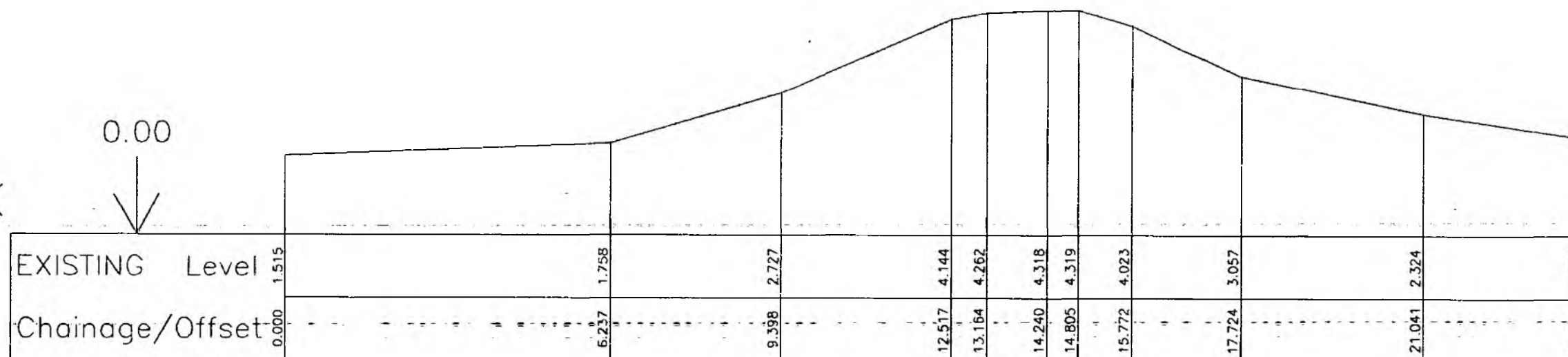
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6301J

0.00
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Horiz. = 1:100 Vert. = 1:100

6301K

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing

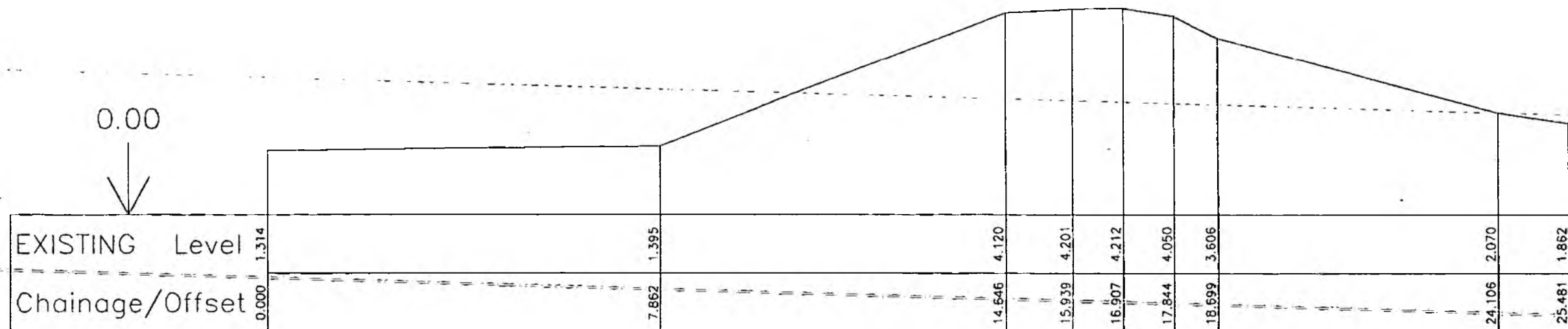
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

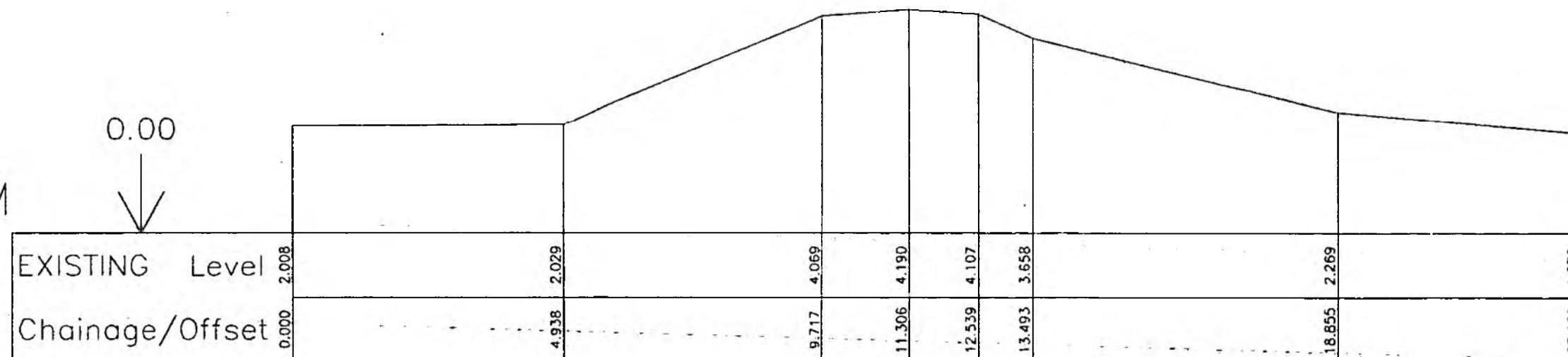
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6301L

0.00
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Horiz. = 1:100 Vert. = 1:100

6301M

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

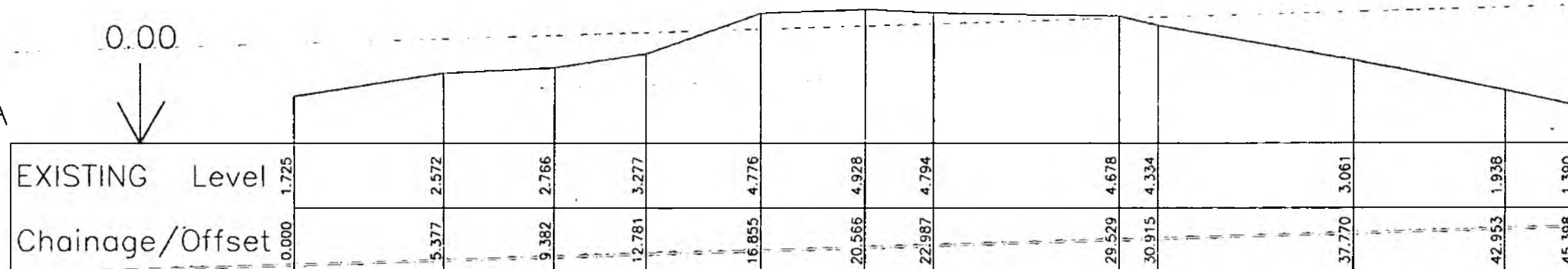
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Fryer & Rothwell

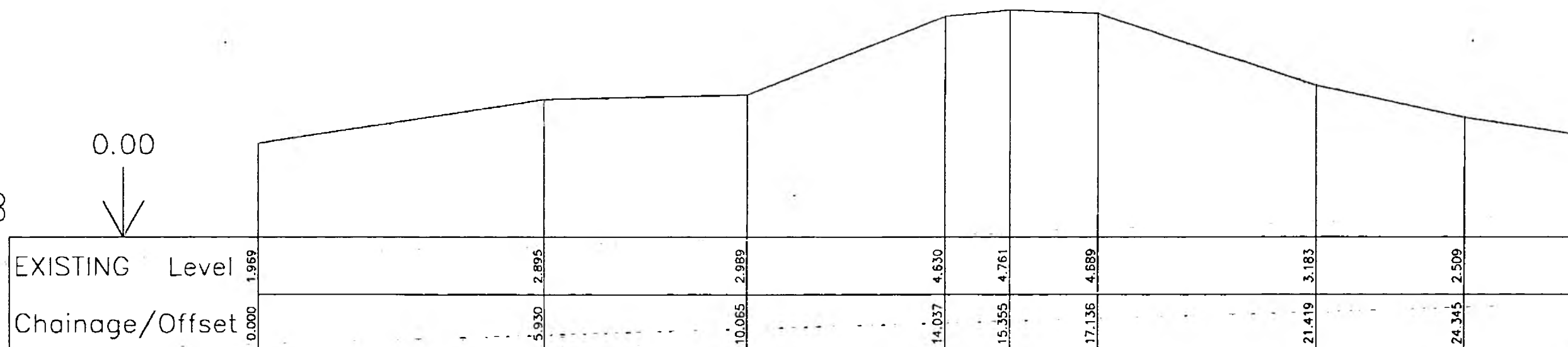
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302A

0.00
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Horiz. = 1:200 Vert. = 1:200

6302B

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

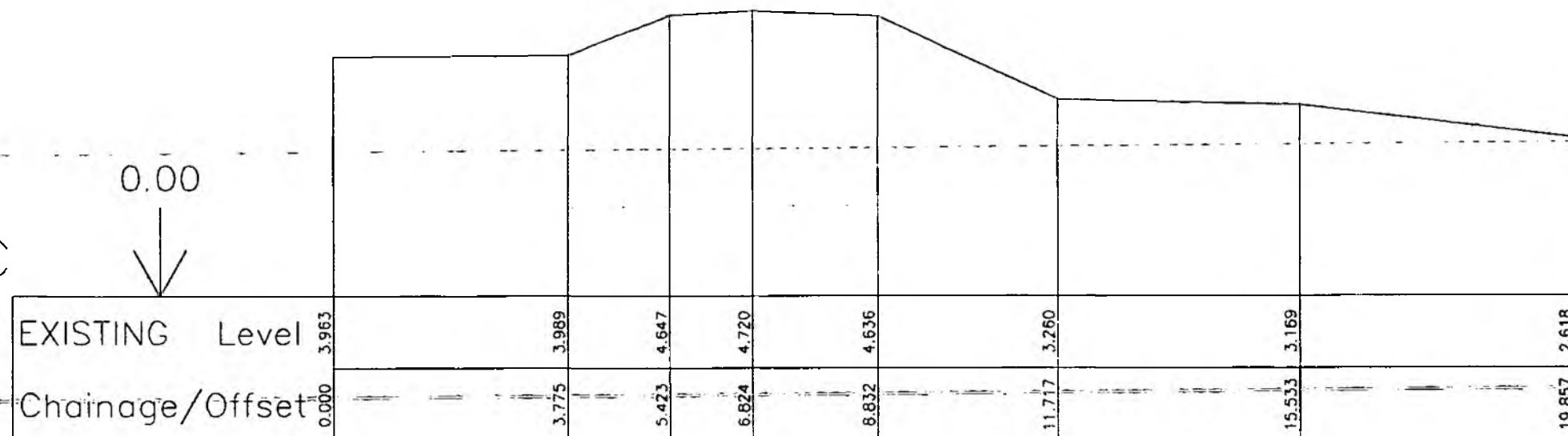
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Shropshire CM23 2ER

6302C

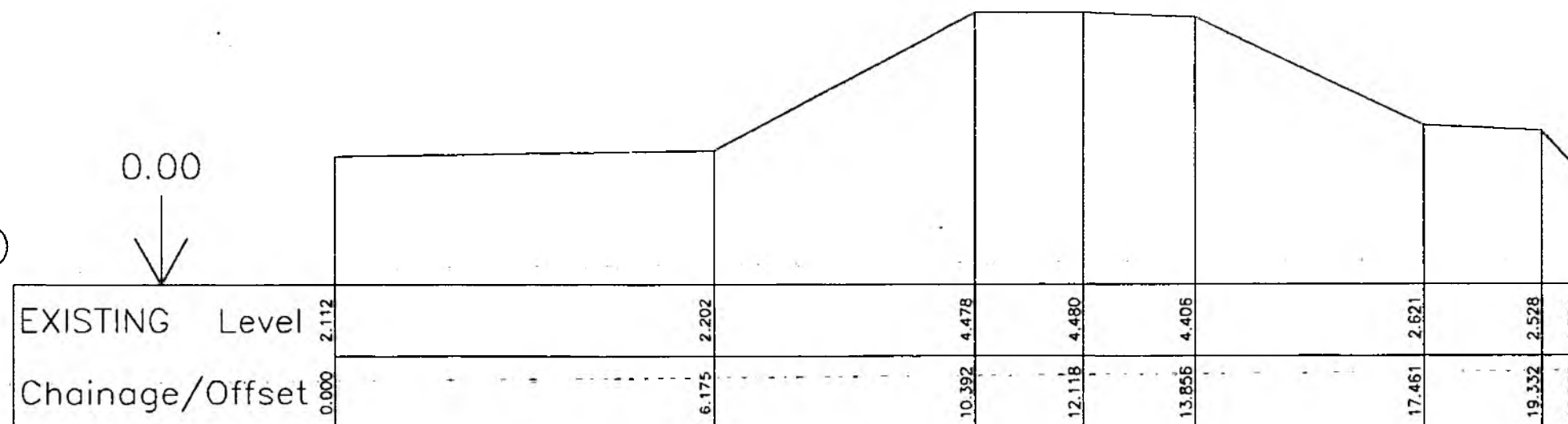
0.00



Horiz. = 1:100 Vert. = 1:100

6302D

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

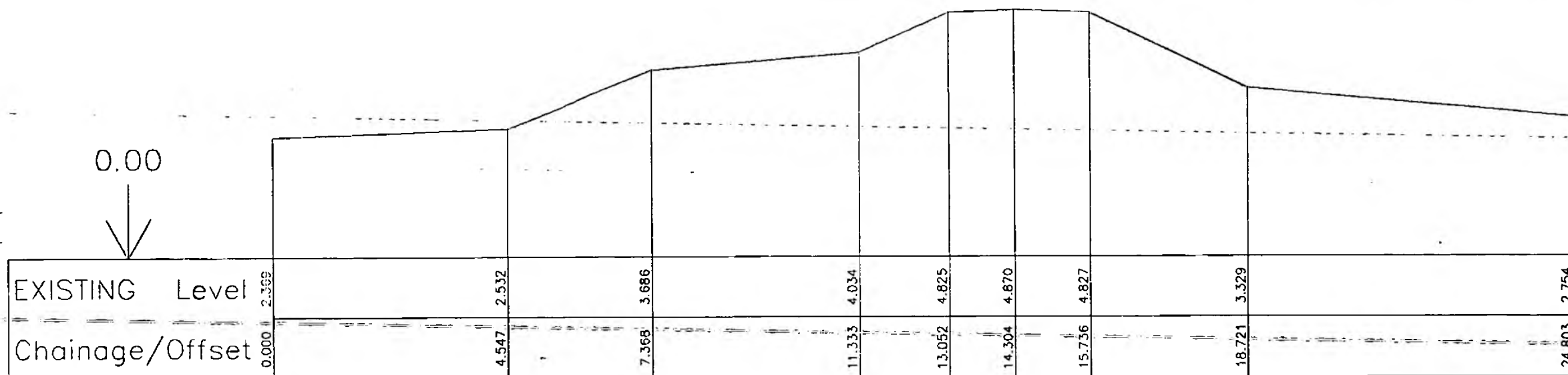
CROSS-SECTIONS

Figgs & Rothwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302E

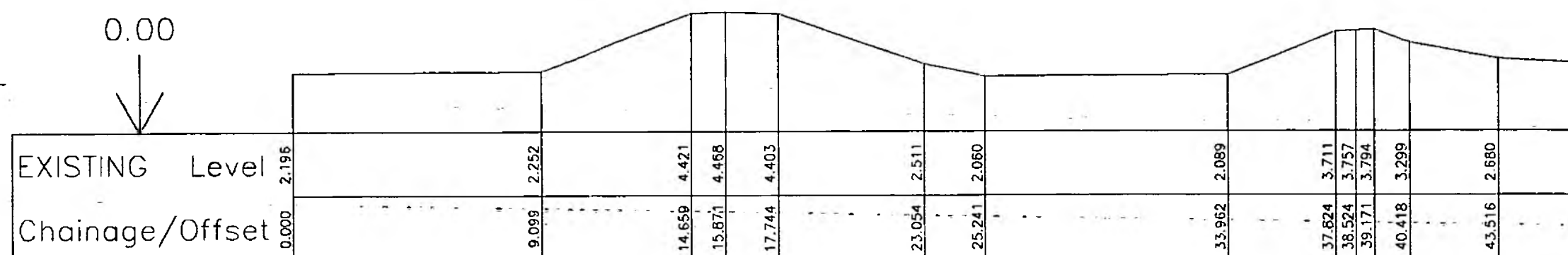
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Horiz. = 1:100 Vert. = 1:100

6302F

0.00



Horiz. = 1:200 Vert. = 1:200



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

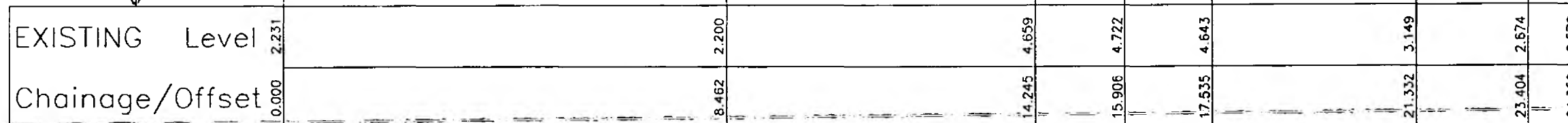
CROSS-SECTIONS

Hyman & Nathaniel

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Sh. CM23 2ER

6302G

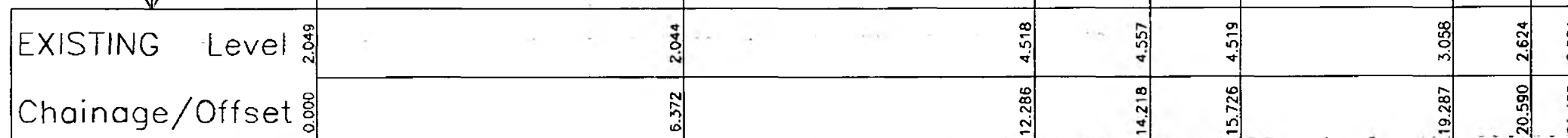
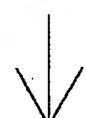
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Horiz. = 1:100 Vert. = 1:100

6302H

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

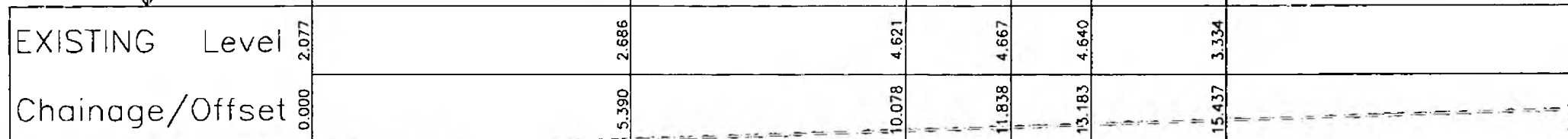
CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2ER

6302J

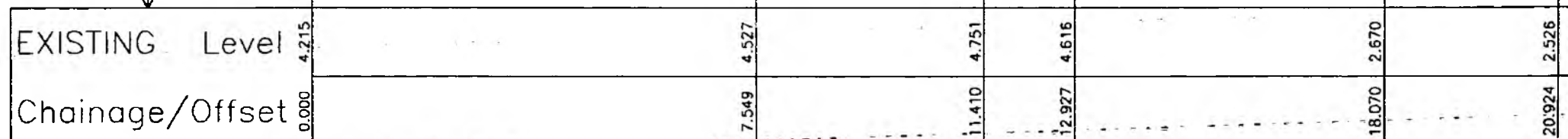
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Horiz. = 1:100 Vert. = 1:100

6302M

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

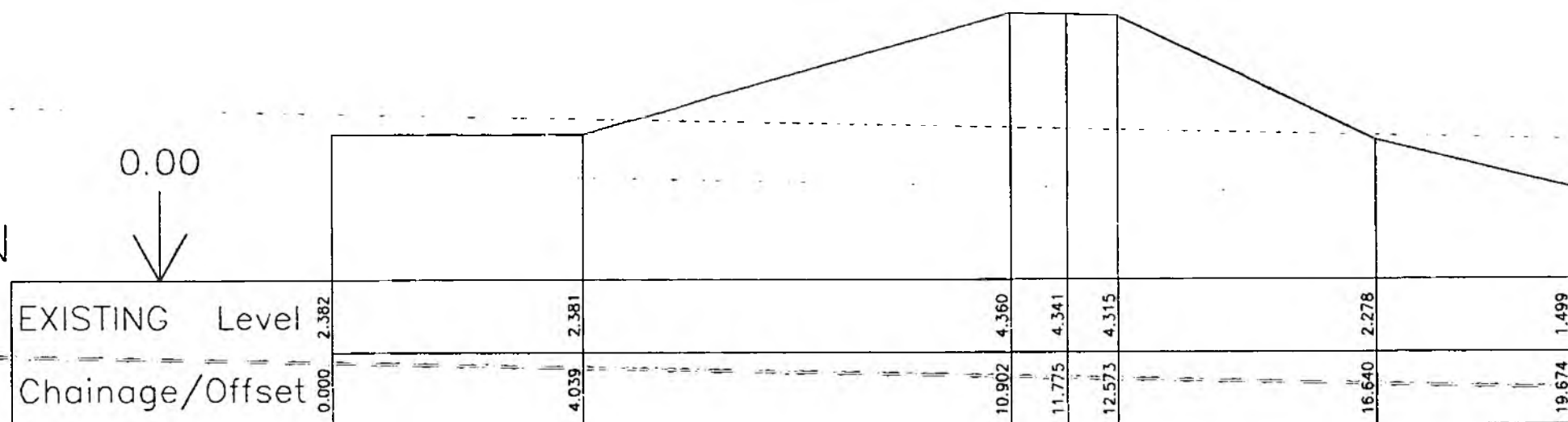
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rathbone

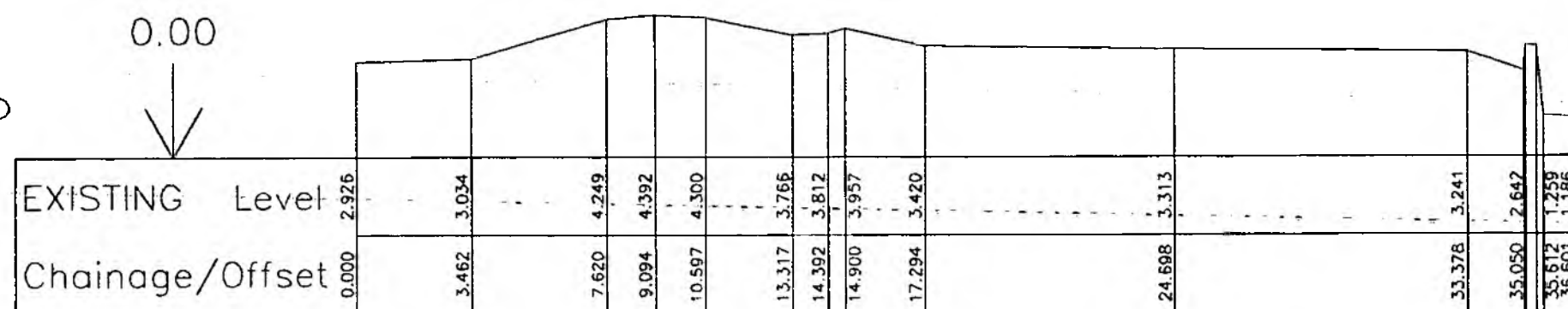
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302N

0.00
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Horiz. = 1:100 Vert. = 1:100

6302P

0.00
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Horiz. = 1:200 Vert. = 1:200



NRA

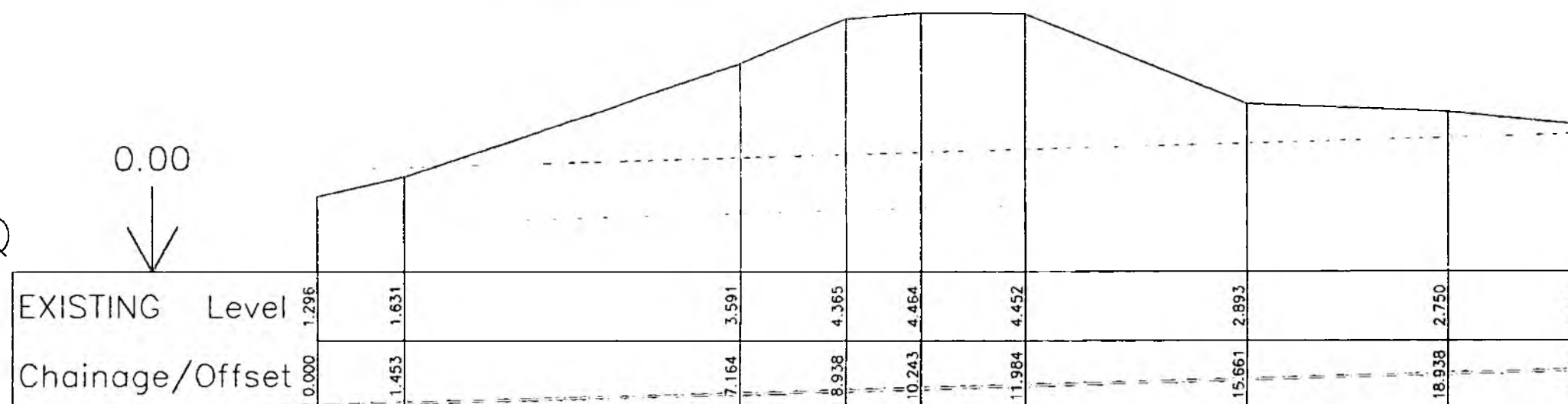
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

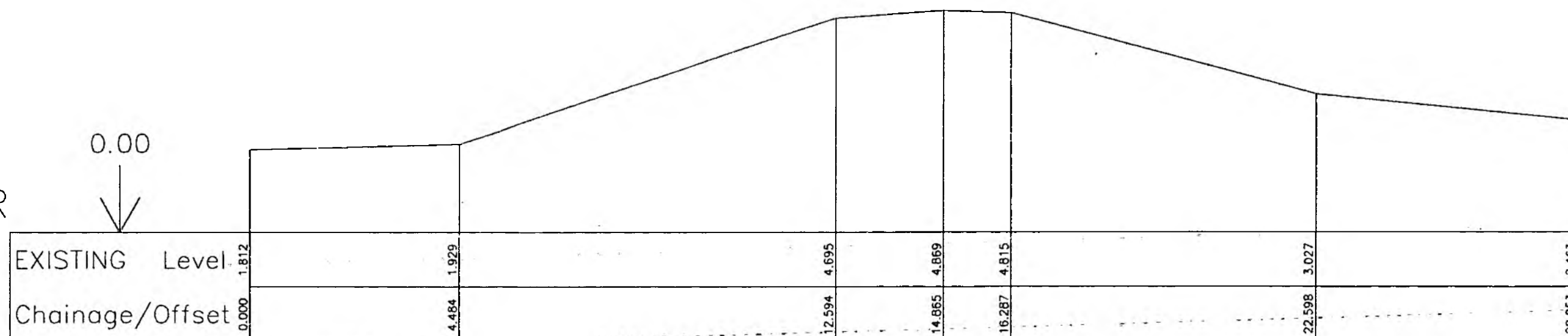
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302Q

0.00
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Horiz. = 1:100 Vert. = 1:100

6302R

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

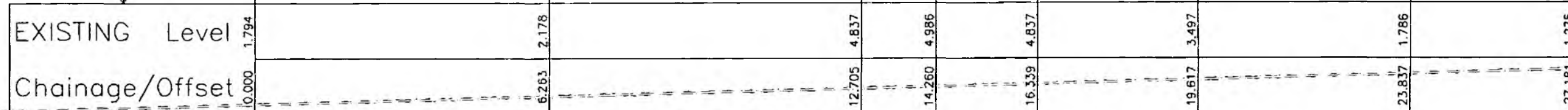
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302S

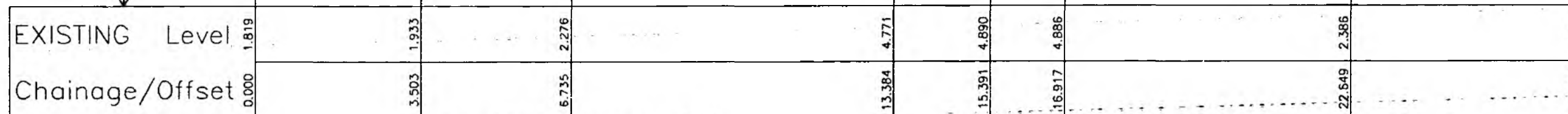
0.00



Horiz. = 1:100 Vert. = 1:100

6302T

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Hyman & Rothwell

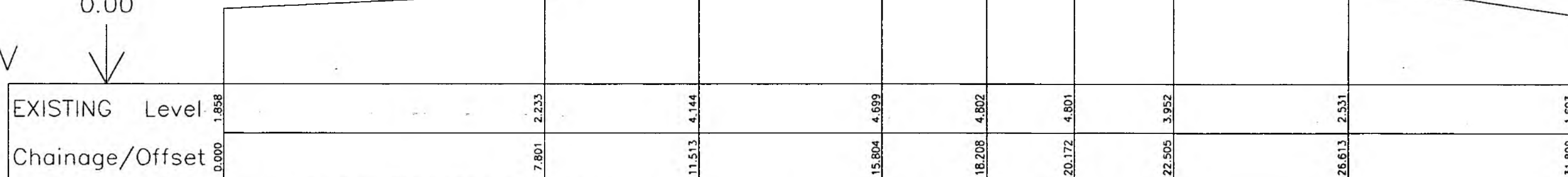
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302U

0.00
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Horiz. = 1:100 Vert. = 1:100

6302V

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Blahop's Stortford, Herts CM23 2ER

6302W

0.00
↓

EXISTING Level	2.091	2.396	4.990	5.092	5.026	4.738	2.063	1.186
Chainage/Offset	0.000	6.324	14.134	15.940	17.658	18.836	24.272	29.214

Horiz. = 1:100 Vert. = 1:100

6302X

0.00
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EXISTING Level	2.143	2.332	2.691	4.837	4.821	4.755	4.067	2.372	1.970
Chainage/Offset	0.000	4.780	7.886	14.238	15.883	18.156	20.045	25.256	29.883

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

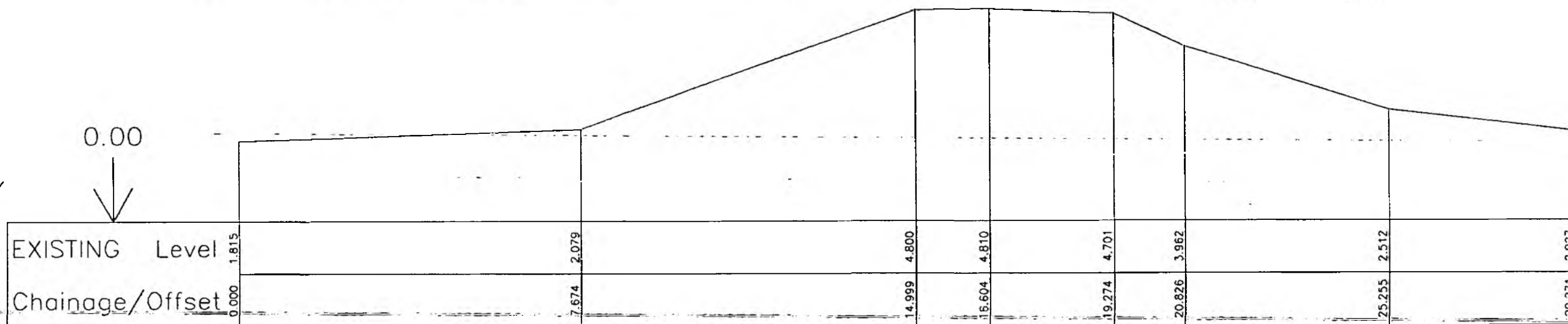
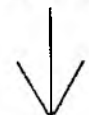
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302Y

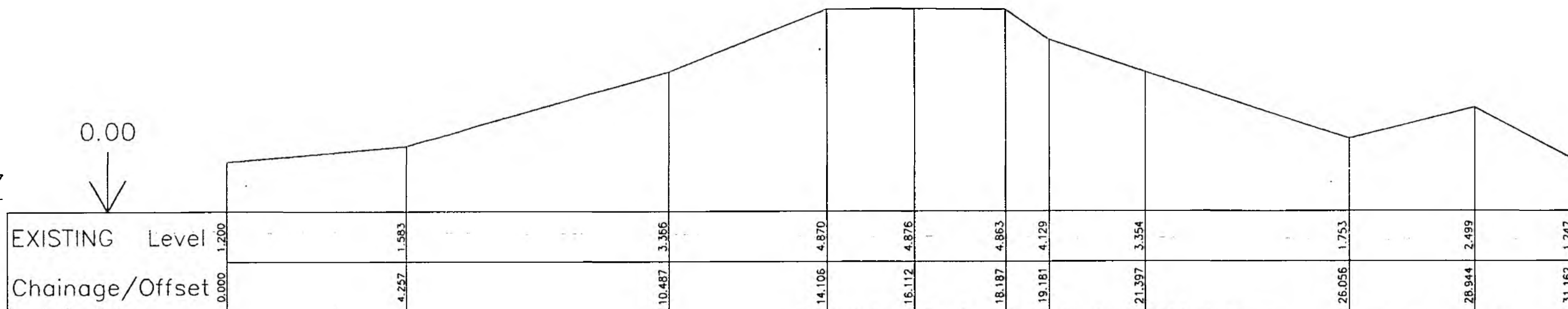
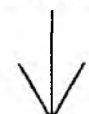
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Horiz. = 1:100 Vert. = 1:100

6302Z

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

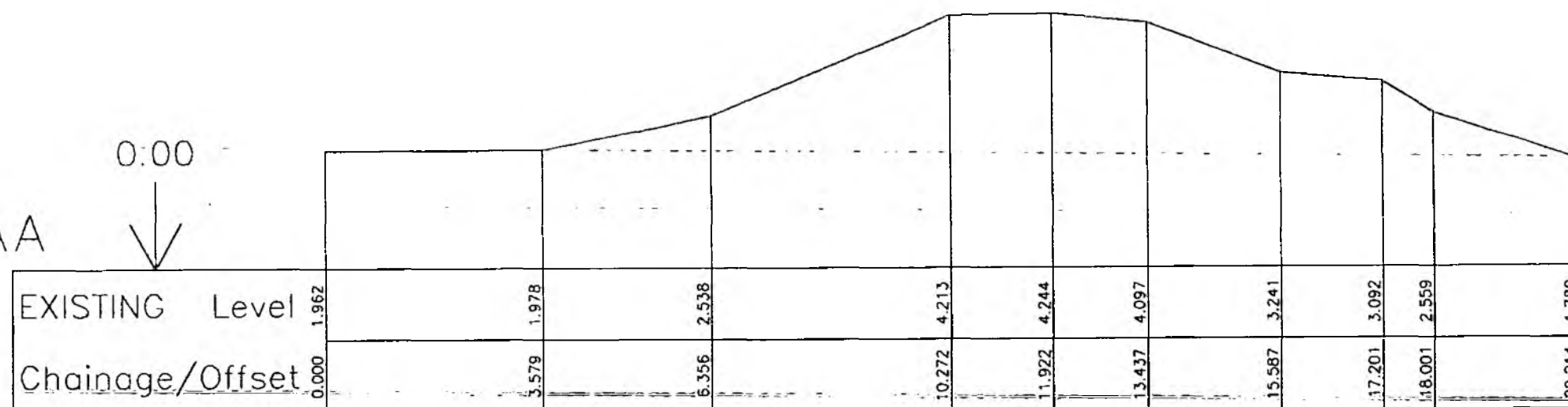
CROSS-SECTIONS

Fryer & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6302AA

0:00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

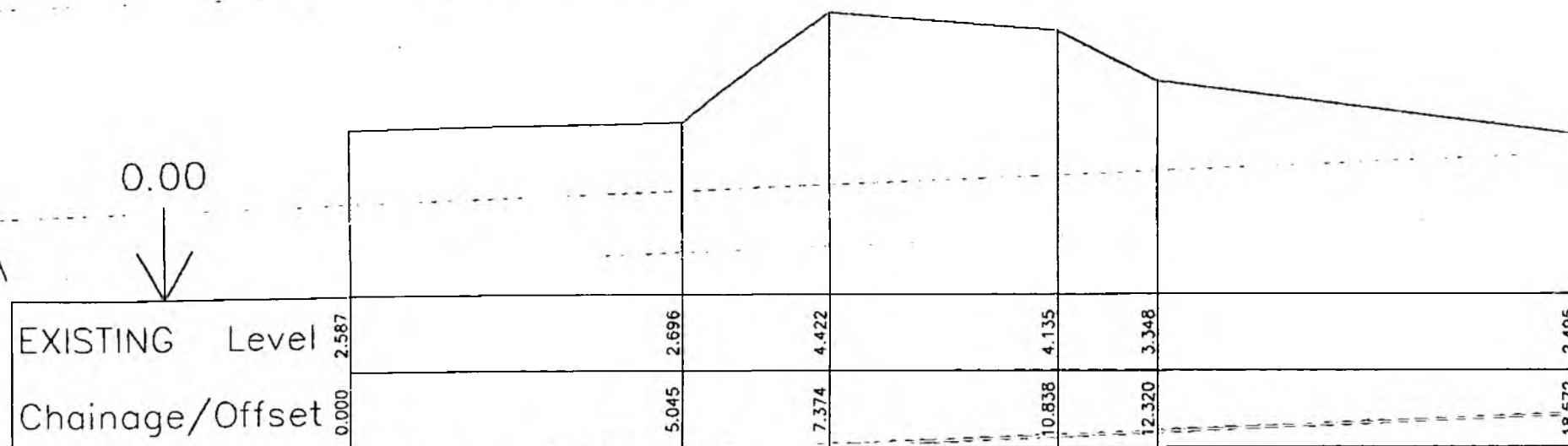
CROSS-SECTIONS

Hyman & Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CW23 2ER

6303A

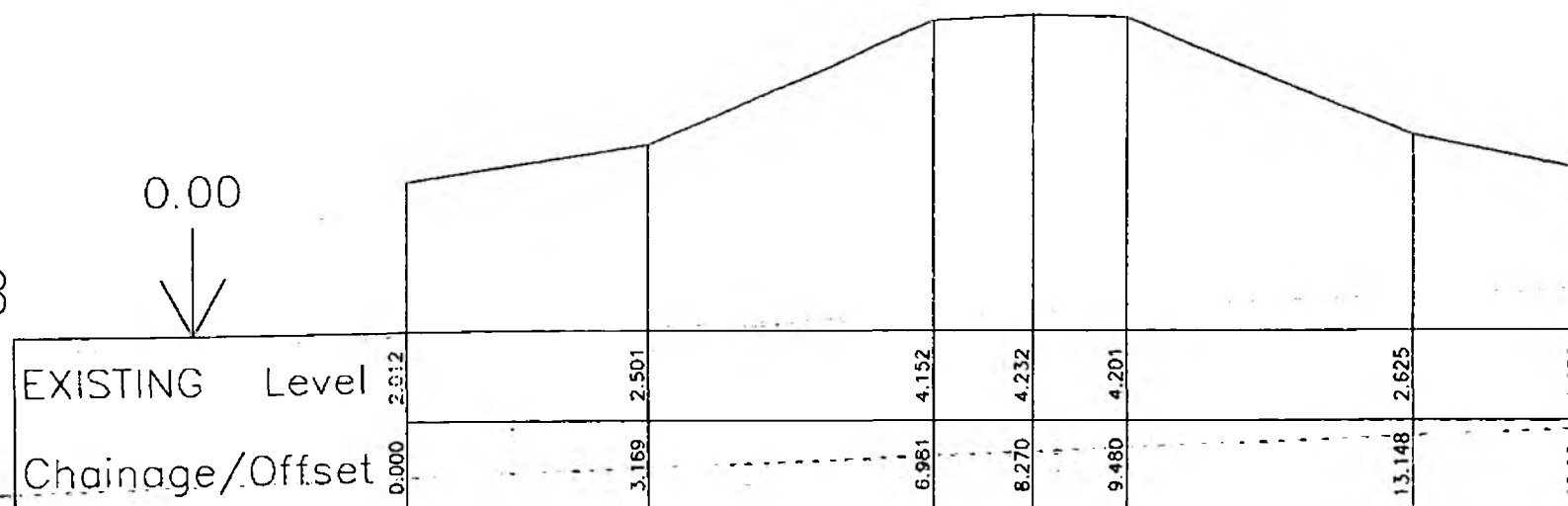
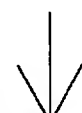
0.00



Horiz. = 1:100 Vert. = 1:100

6303B

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

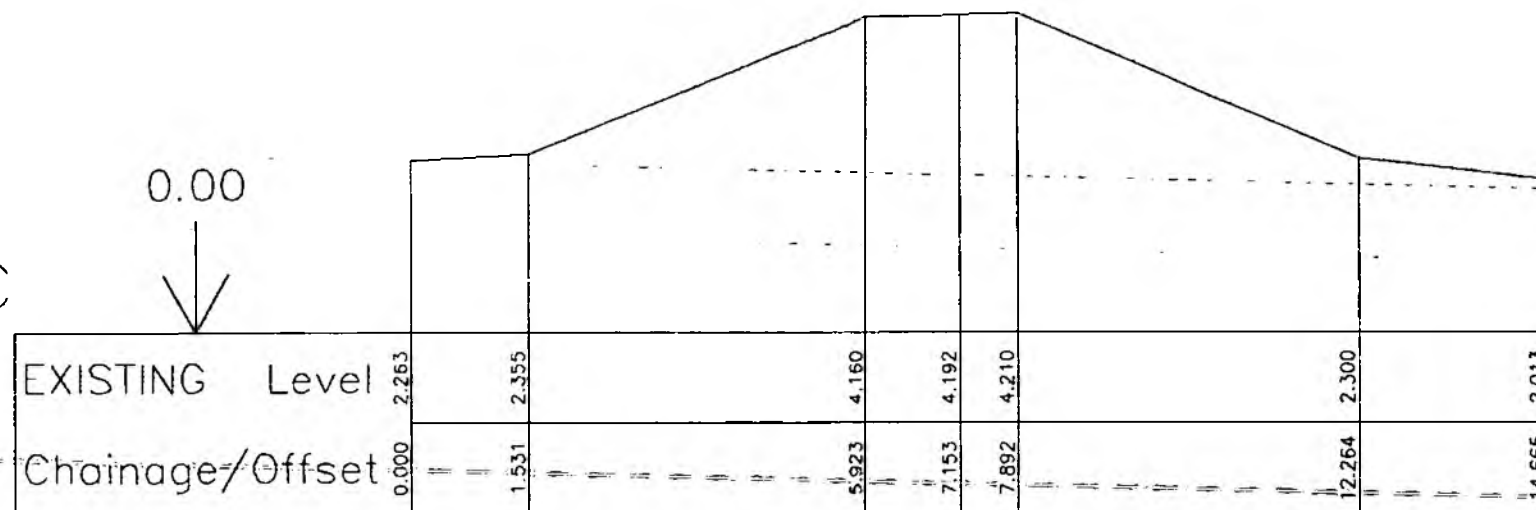
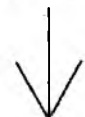
CROSS-SECTIONS

James & Riddell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6303C

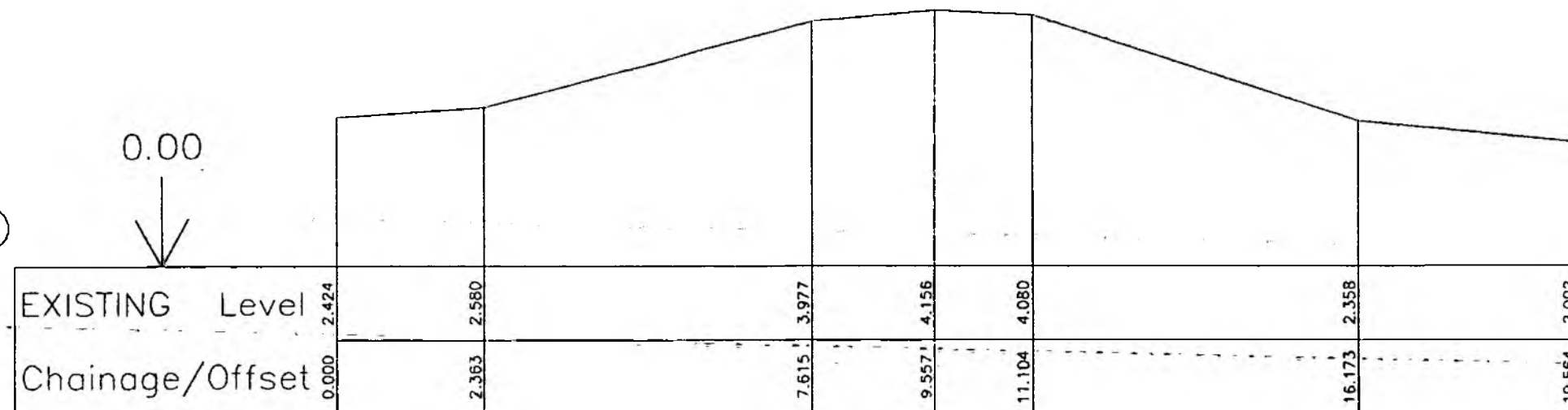
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Horiz. = 1:100 Vert. = 1:100

6303D

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

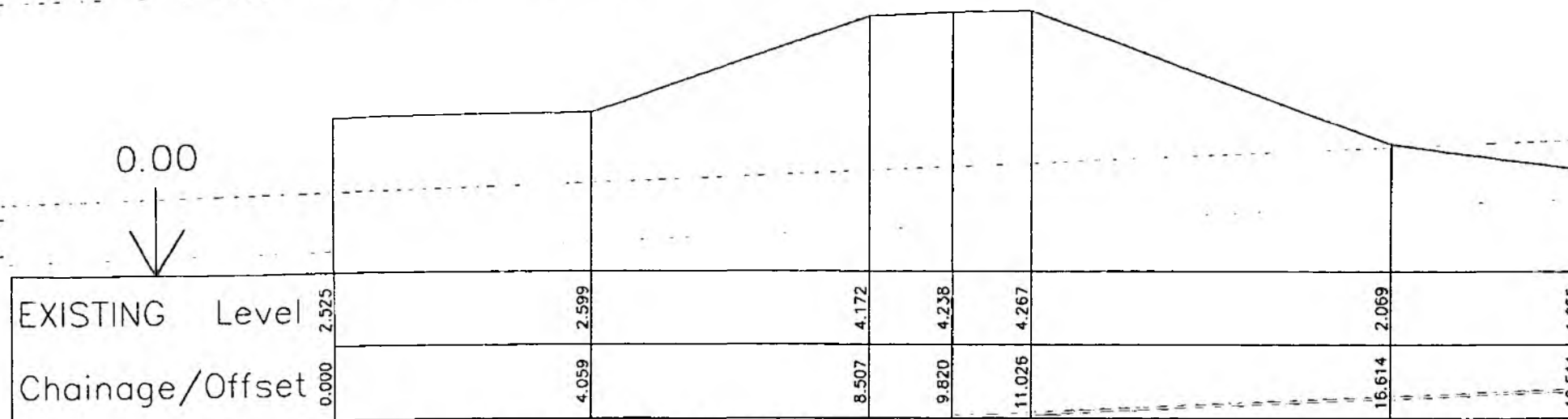
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Fryer & Rothwell

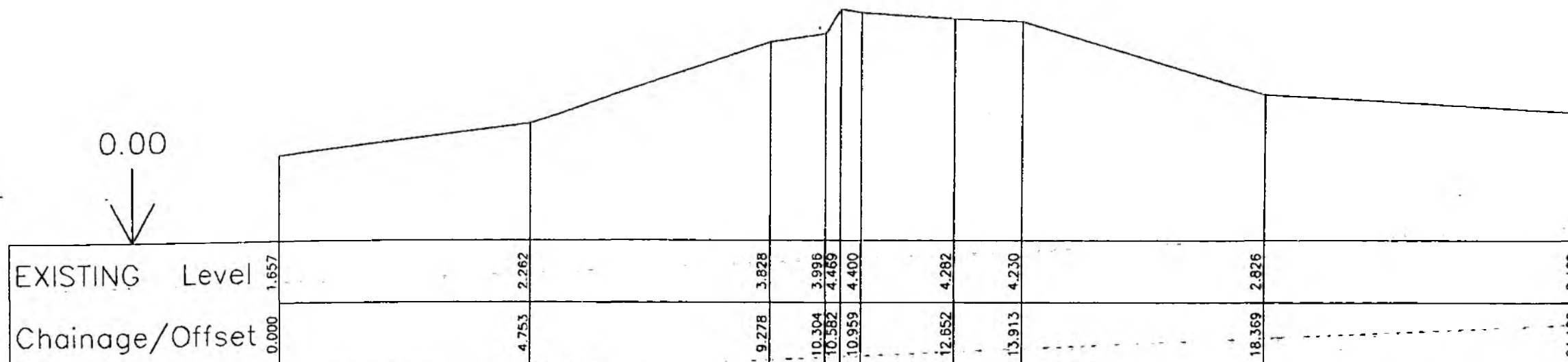
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Sh. CM23 2ER

6303E

0.00
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Horiz. = 1:100 Vert. = 1:100

6303F

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

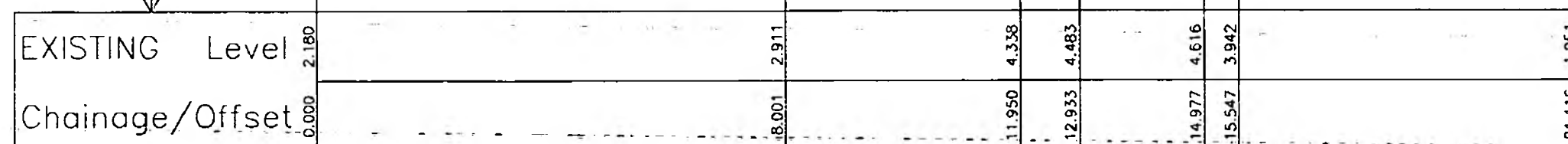
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6303G

0.00
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Horiz. = 1:100 Vert. = 1:100

6303H

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Worthing
Sussex BN11 1LD

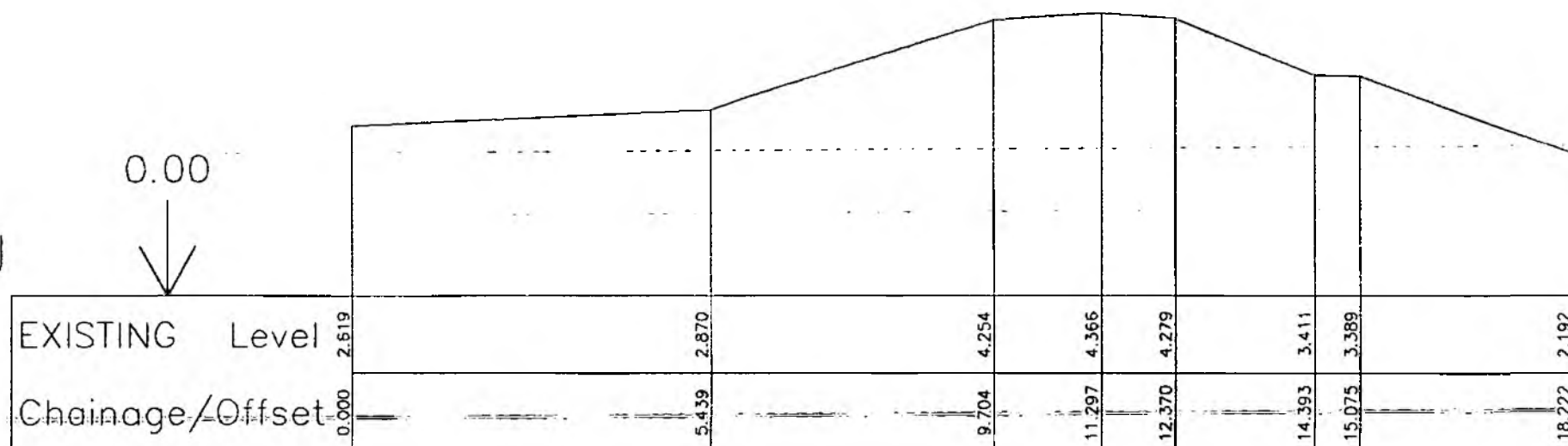
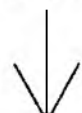
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6303J

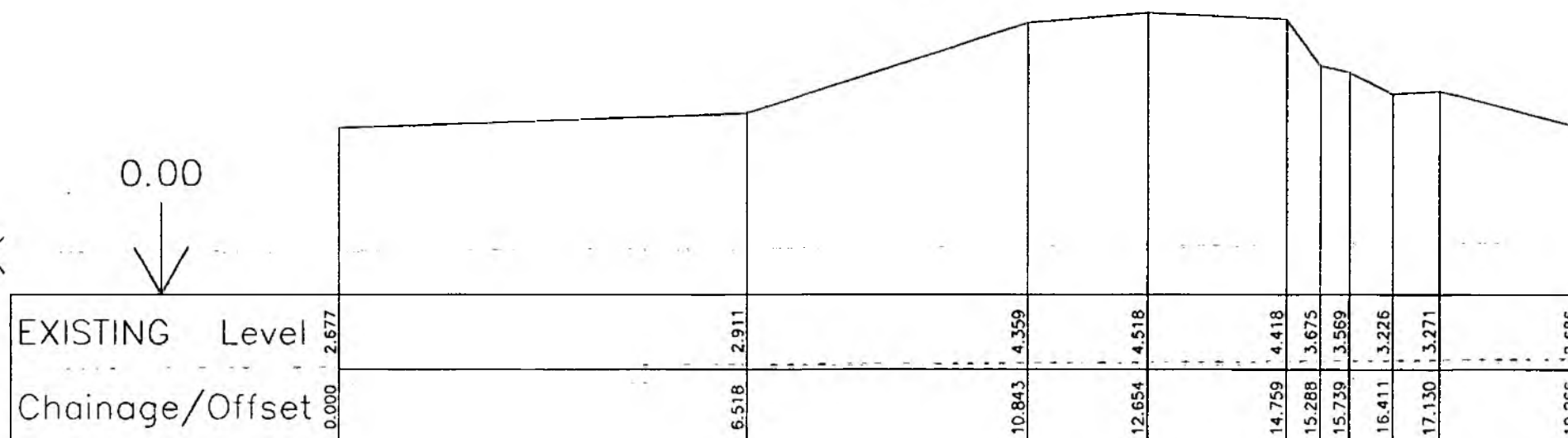
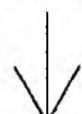
0.00



Horiz. = 1:100 Vert. = 1:100

6303K

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

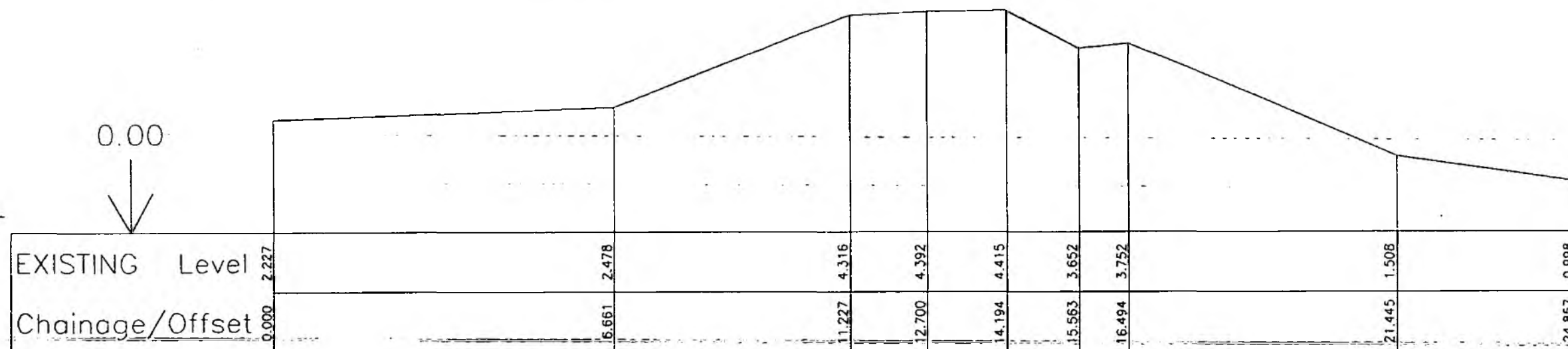
**NATIONAL SEA DEFENCE
SURVEY PHASE IVA**

CROSS-SECTIONS

Hayes & Rothwell

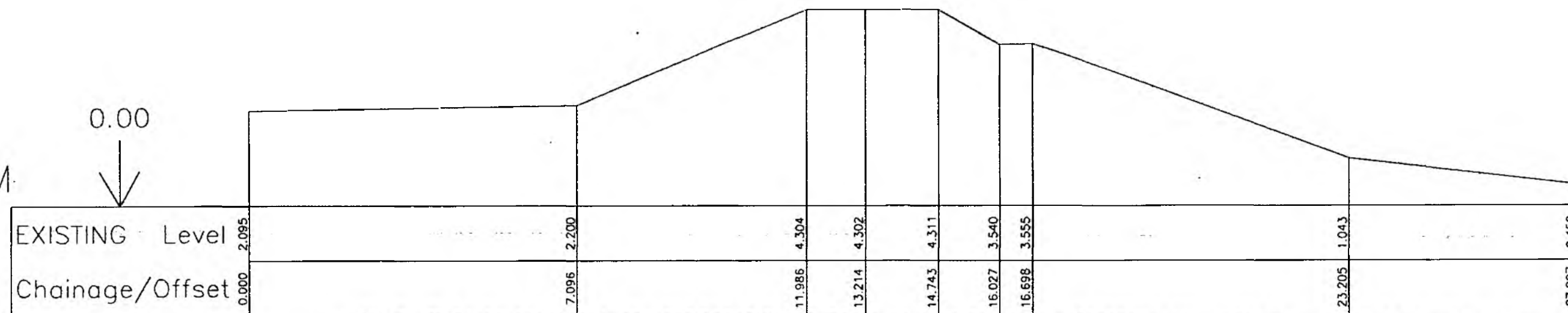
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6303L

0.00
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Horiz. = 1:100 Vert. = 1:100

6303M

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

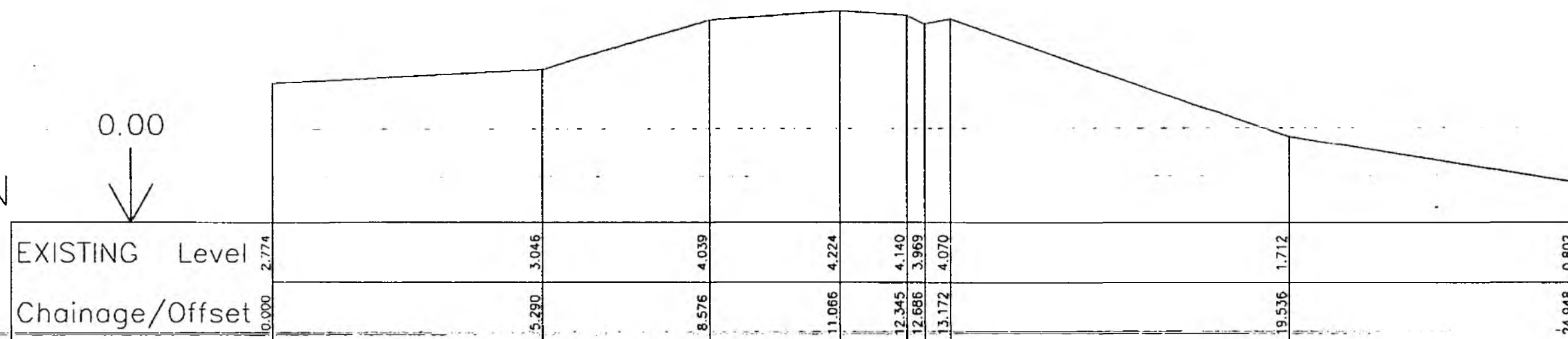
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

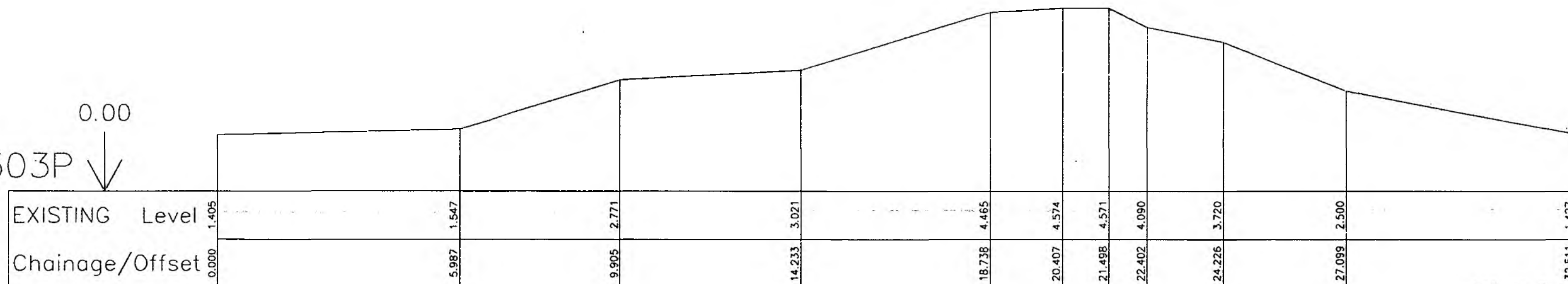
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6303N

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6303P

0.00
↓

Horiz. = 1:100 Vert. = 1:100



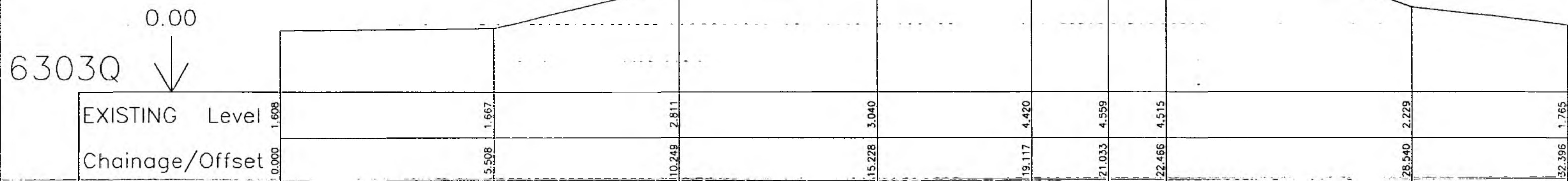
NRA

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Worthing
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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

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Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

**NATIONAL SEA DEFENCE
SURVEY PHASE IVA**

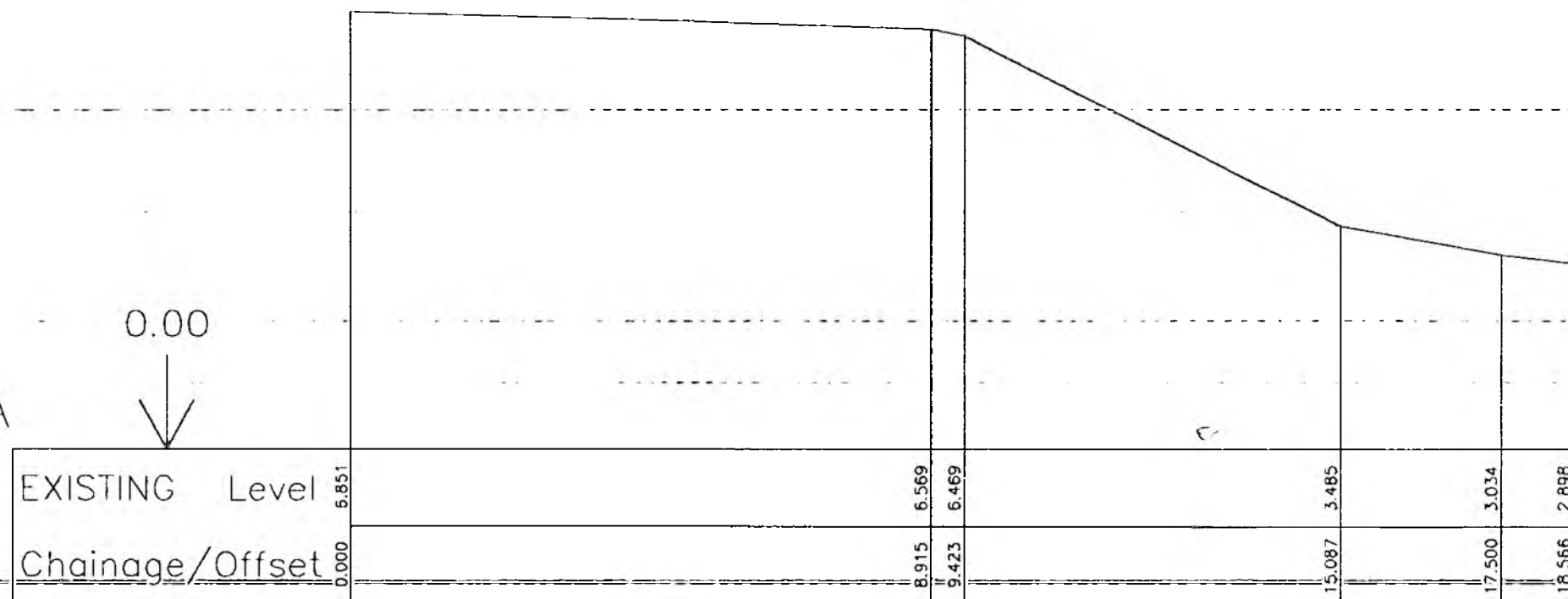
CROSS-SECTIONS

Pyper & Rothwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6304A

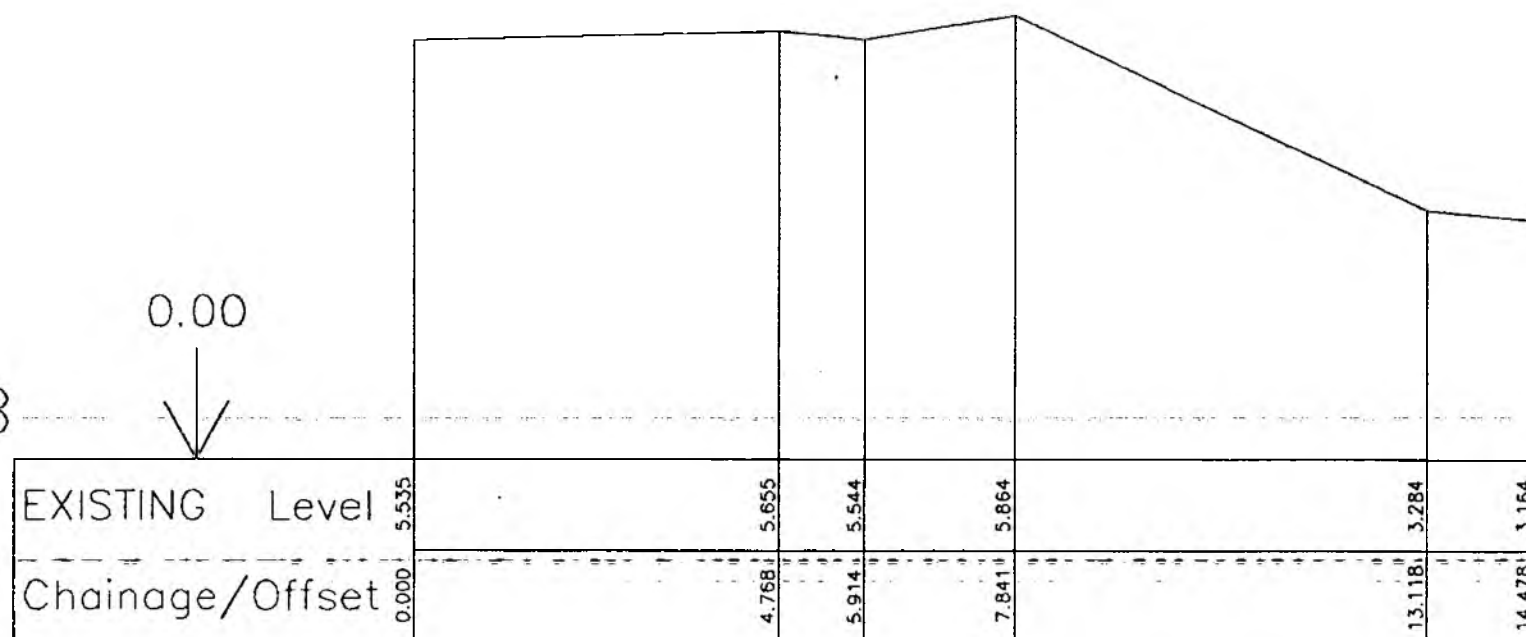
0.00
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Horiz. = 1:100 Vert. = 1:100

6304B

0.00
↓



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

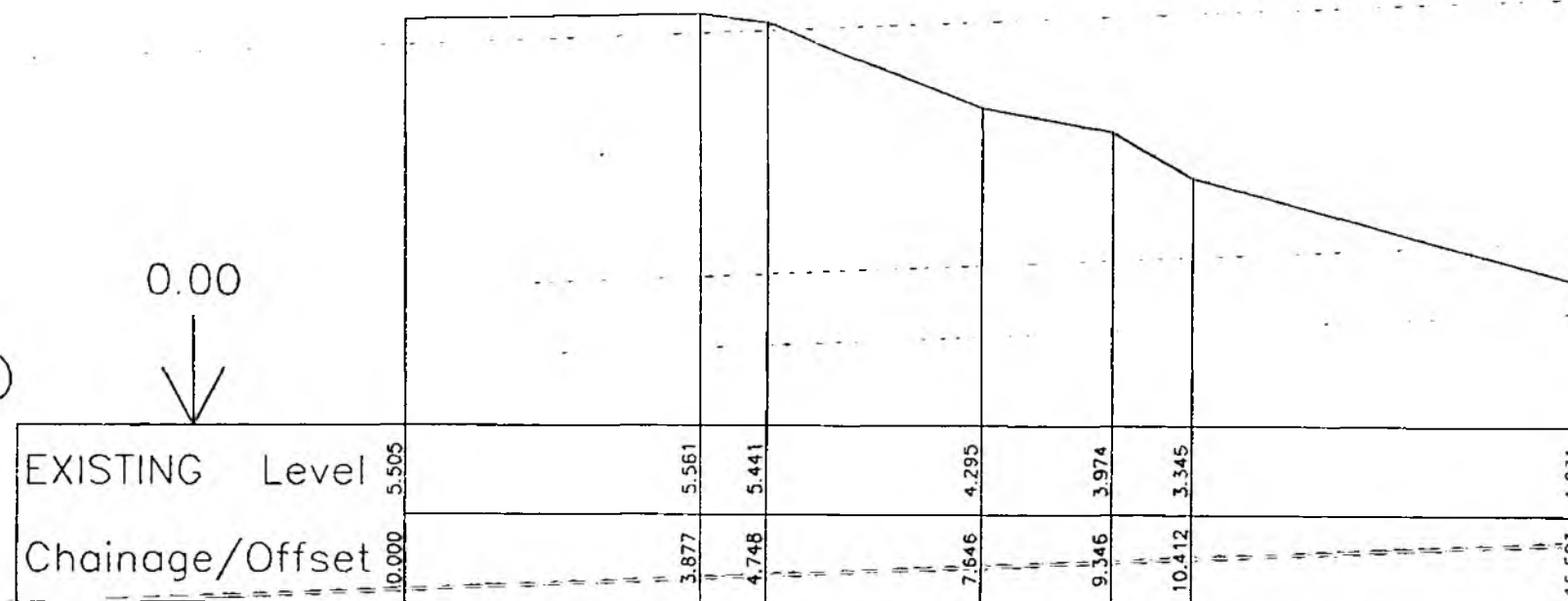
CROSS-SECTIONS

Hyman & Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6304D

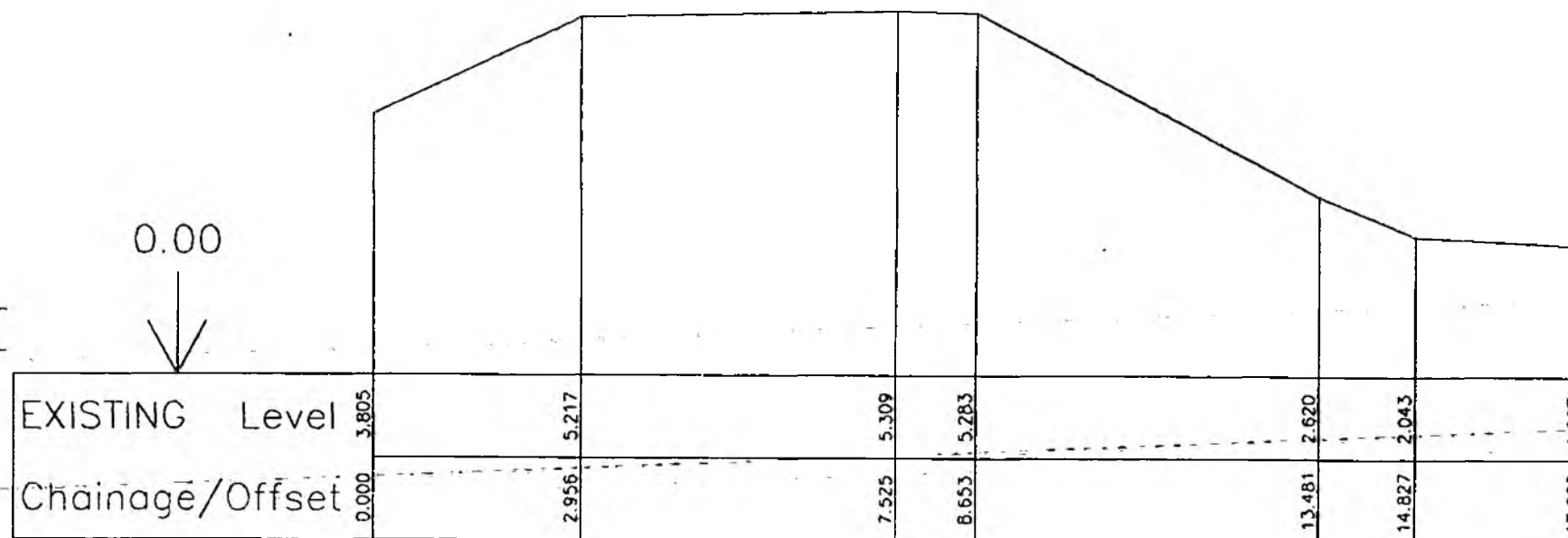
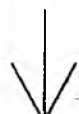
0.00



Horiz. = 1:100 Vert. = 1:100

6304E

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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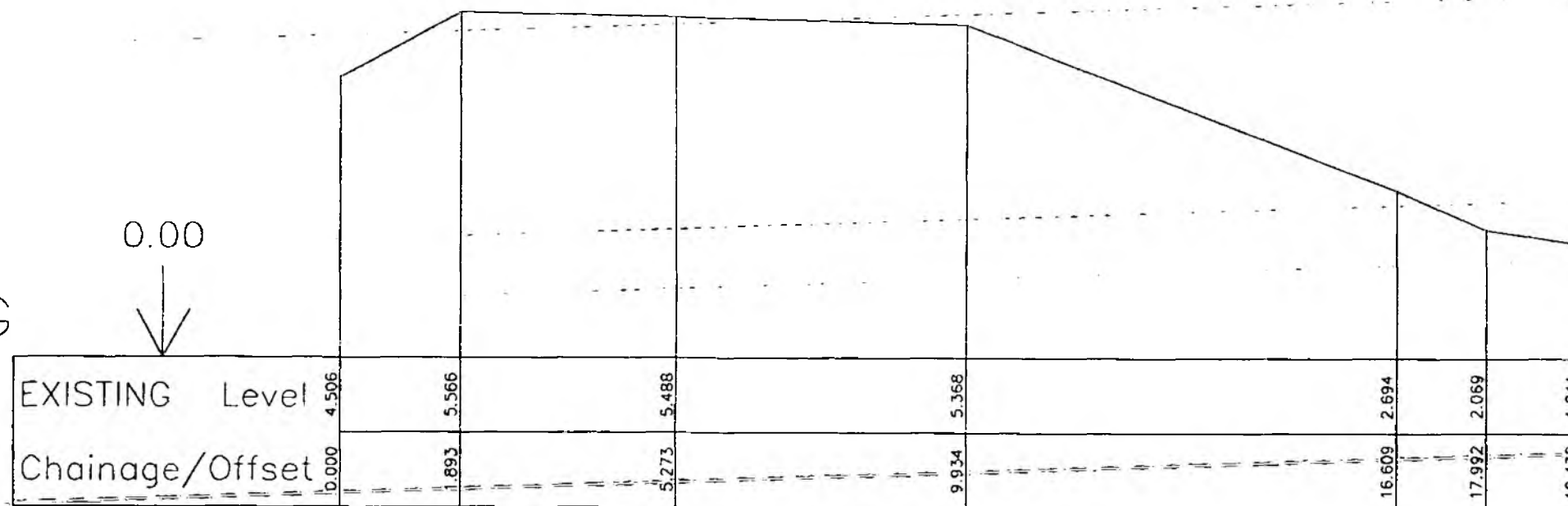
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rathbone

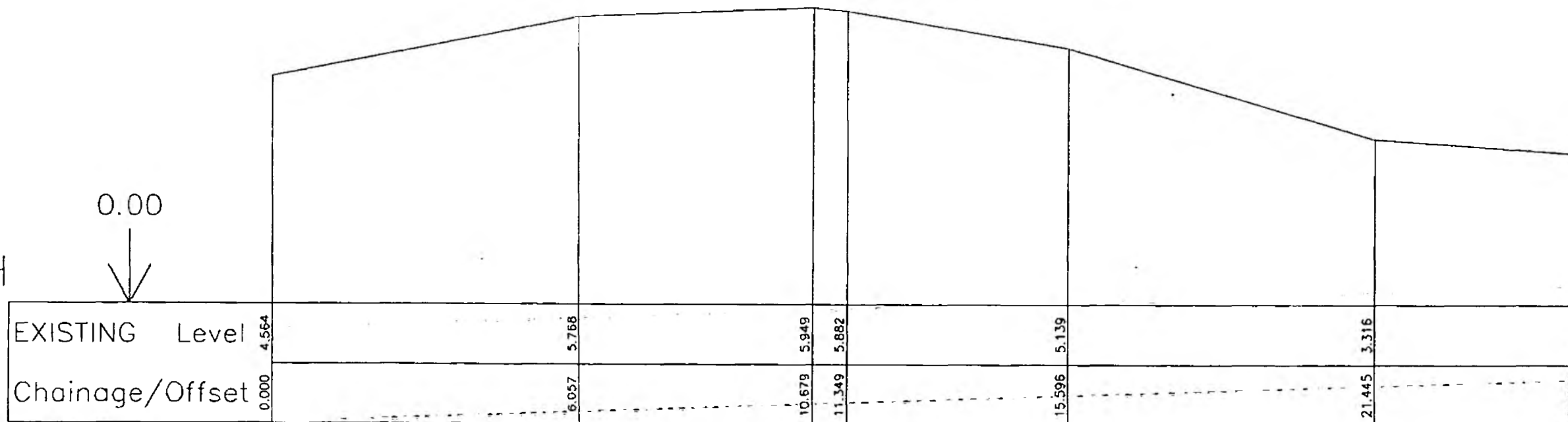
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6304G

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6304H

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

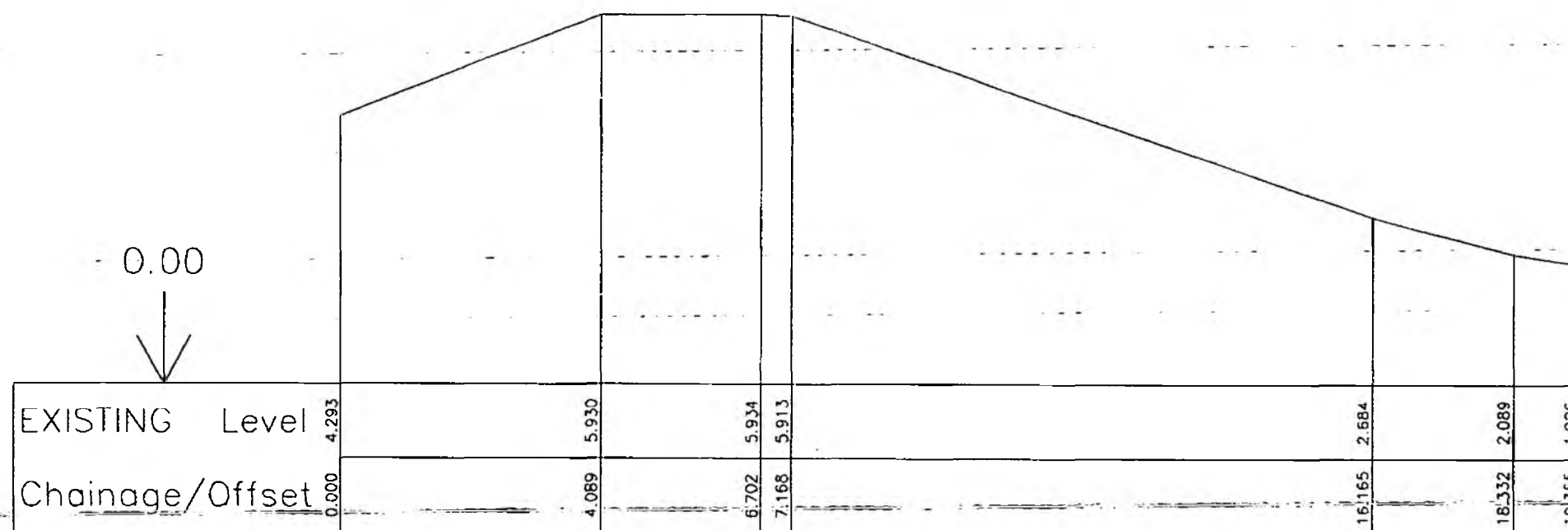
CROSS-SECTIONS

CONSULTING ENGINEERS
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6304I

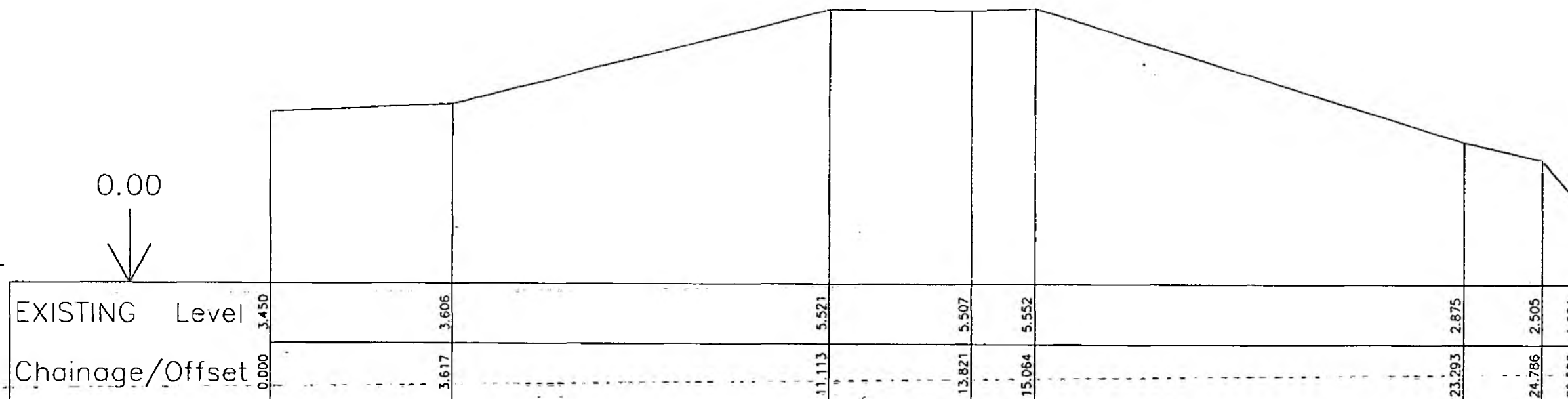
0.00
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Horiz. = 1:100 Vert. = 1:100

6304L

0.00
↓



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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**NATIONAL SEA DEFENCE
SURVEY PHASE IVA**

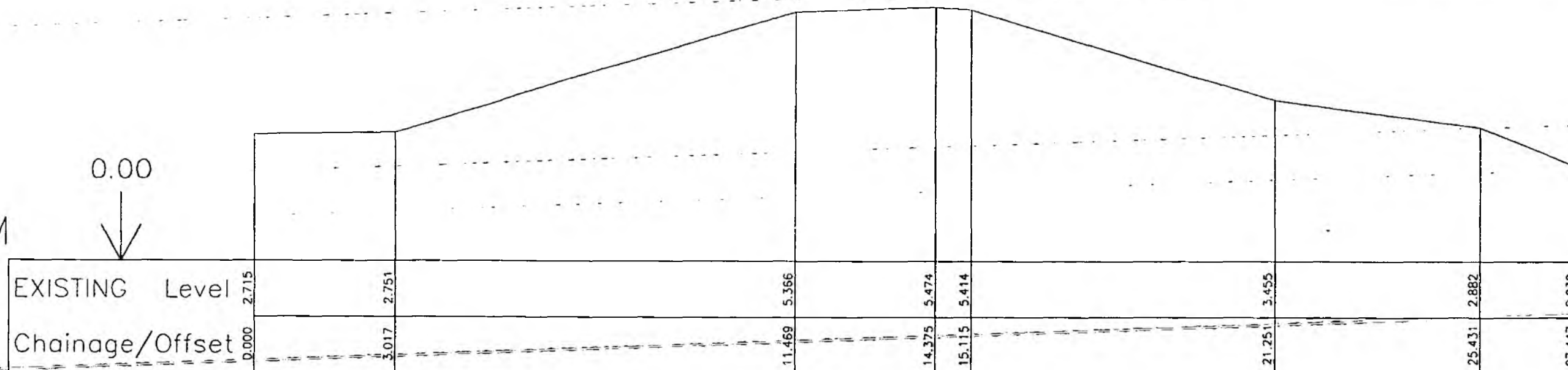
CROSS-SECTIONS

James & Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CV23 2ER

6304M

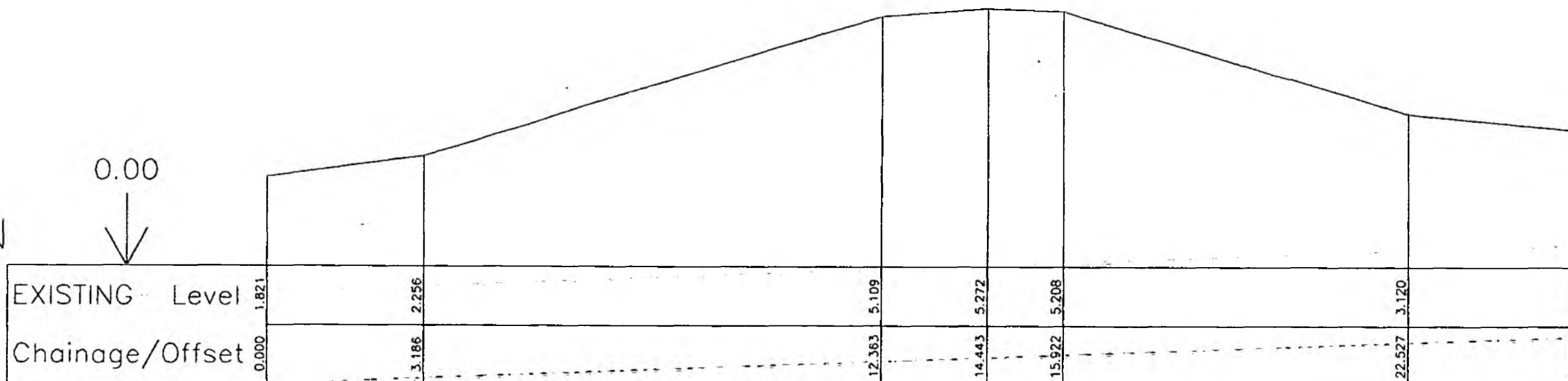
0.00



Horiz. = 1:100 Vert. = 1:100

6304N

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing

Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

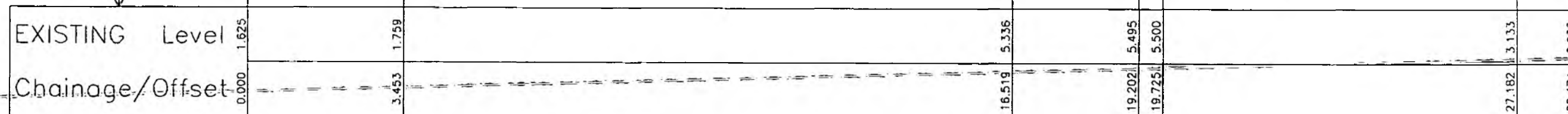
James G. Platt

CONSULTING ENGINEERS

Chorrington House, The Causeway
Bishop's Cleeve, Shropshire, CV23 2ER

6304P

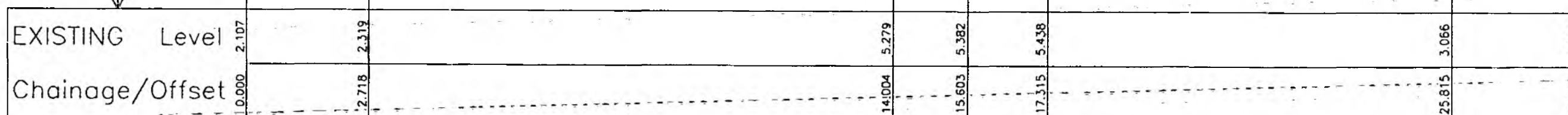
0.00



Horiz. = 1:100 Vert. = 1:100

6304Q

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

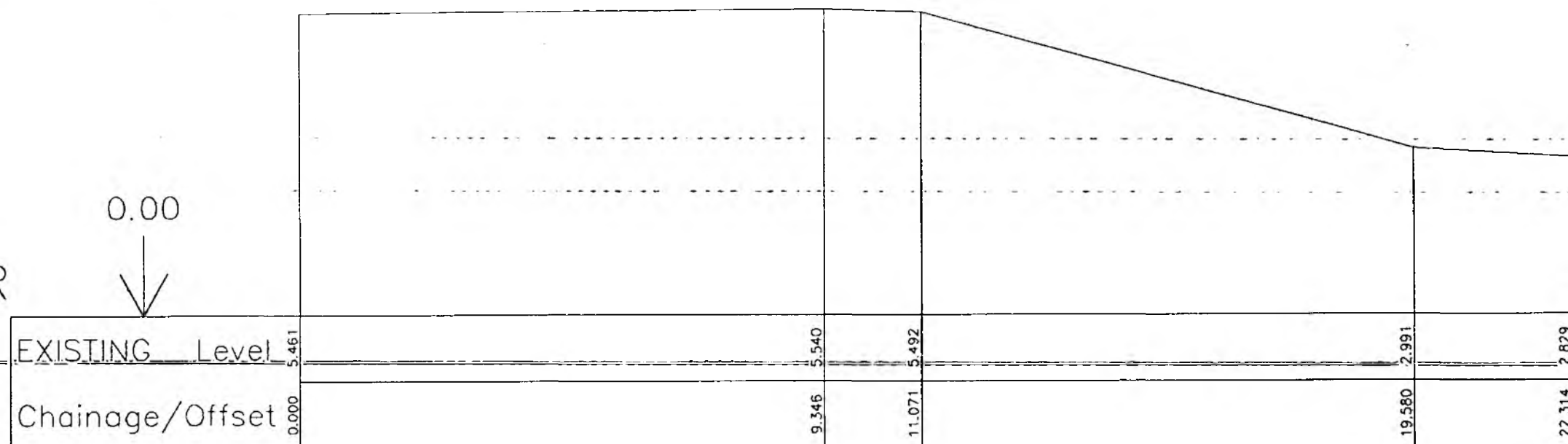
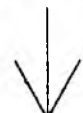
CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Sh. CM23 2ER

6304R

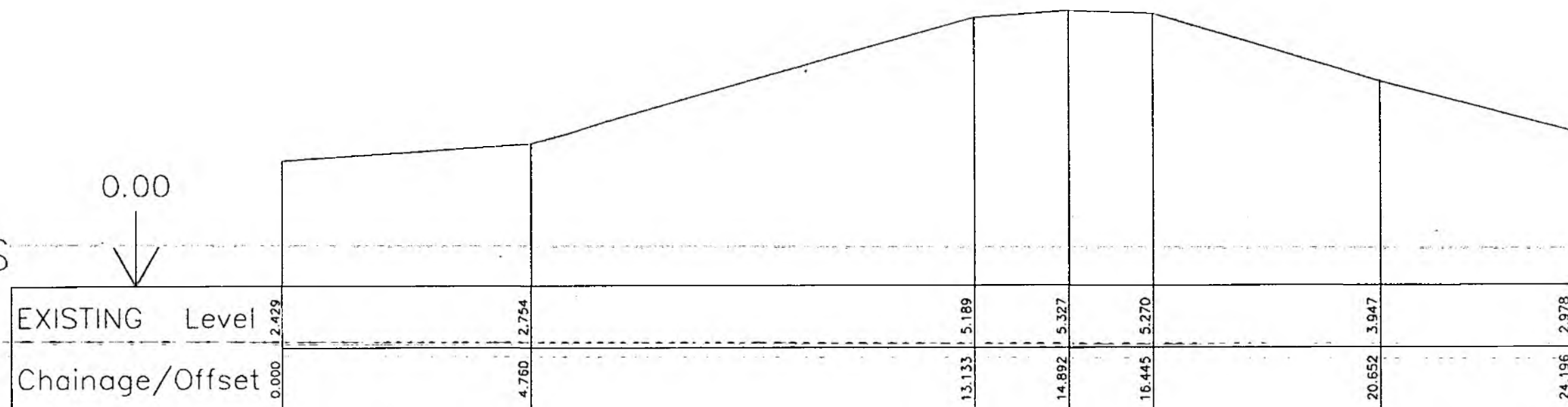
0.00



Horiz. = 1:100 Vert. = 1:100

6304S

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

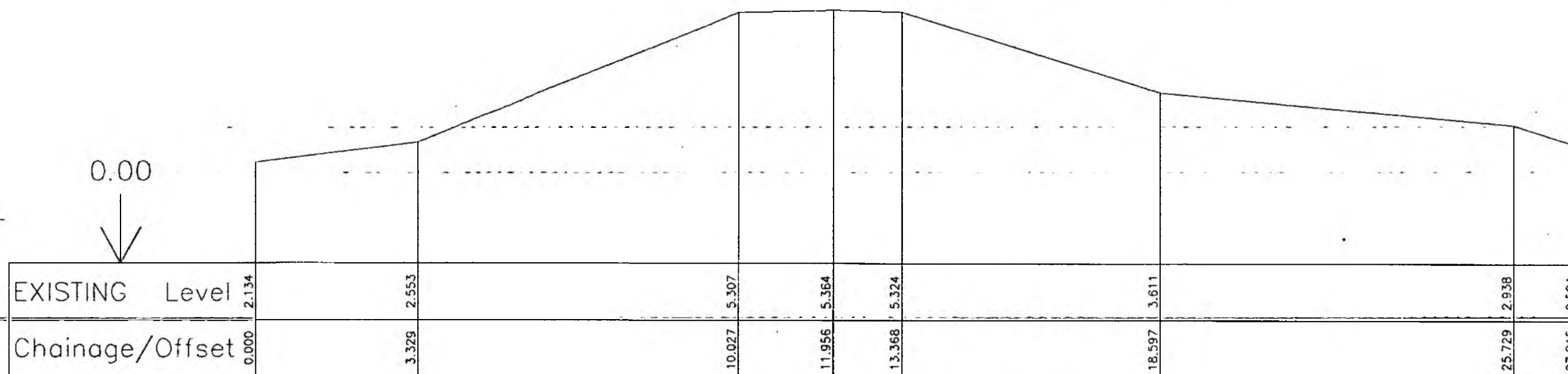
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

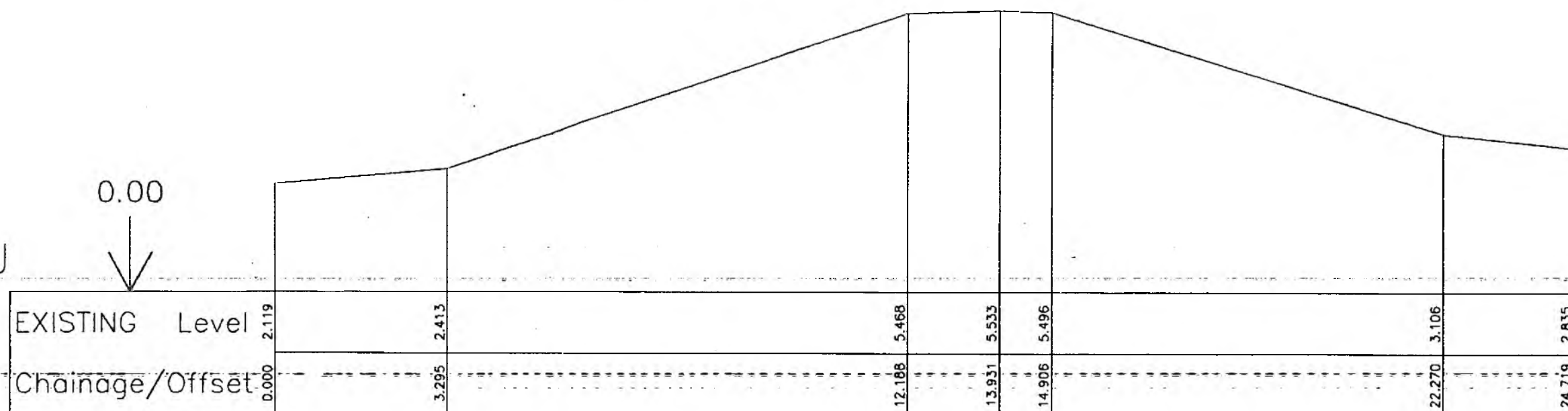
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts. CM23 2ER

6304T

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6304U

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

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6304V

0.00



EXISTING Level	2.032	2.325	5.281	5.375	5.381	3.214	2.737
Chainage/Offset	0.000	4.722	14.231	16.431	17.626	25.156	27.932

Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

**NATIONAL SEA DEFENCE
SURVEY PHASE IVA**

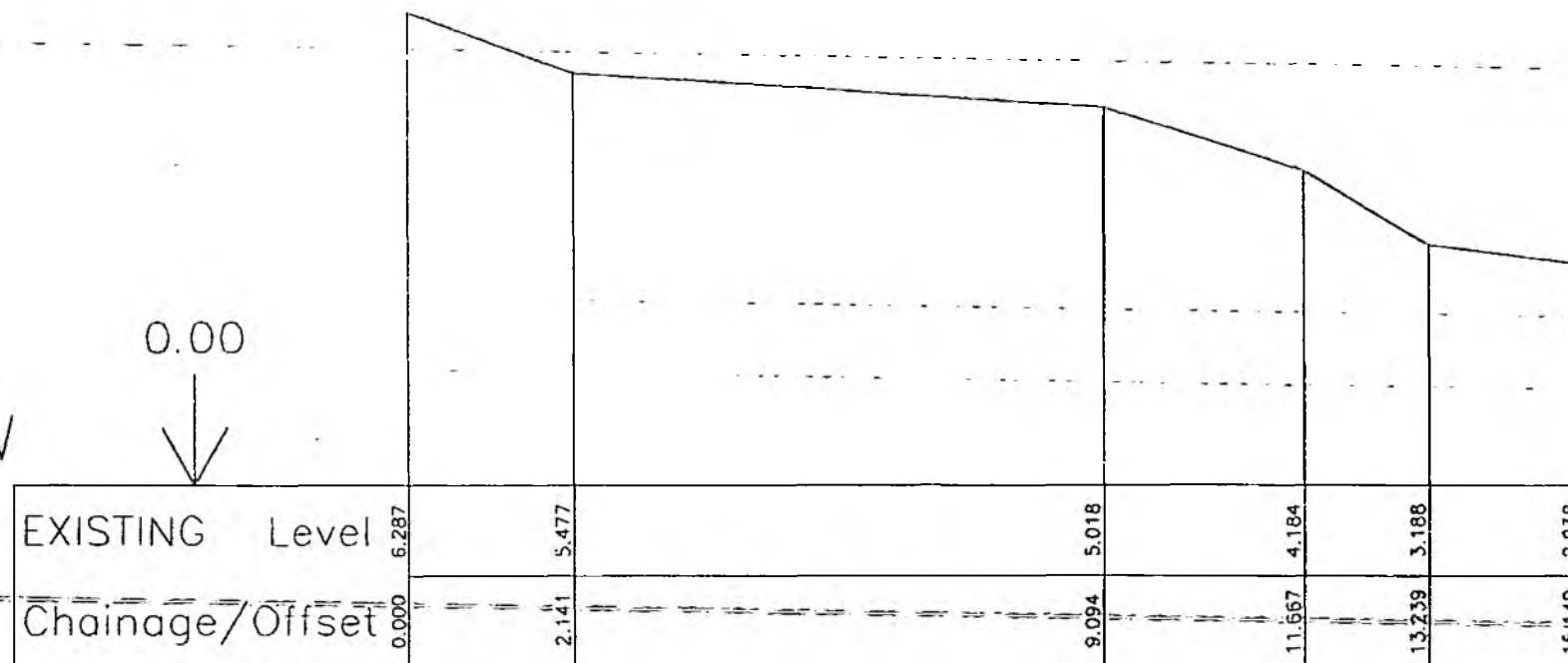
CROSS-SECTIONS

Figgs & Rothwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, CV23 2ER

6304W

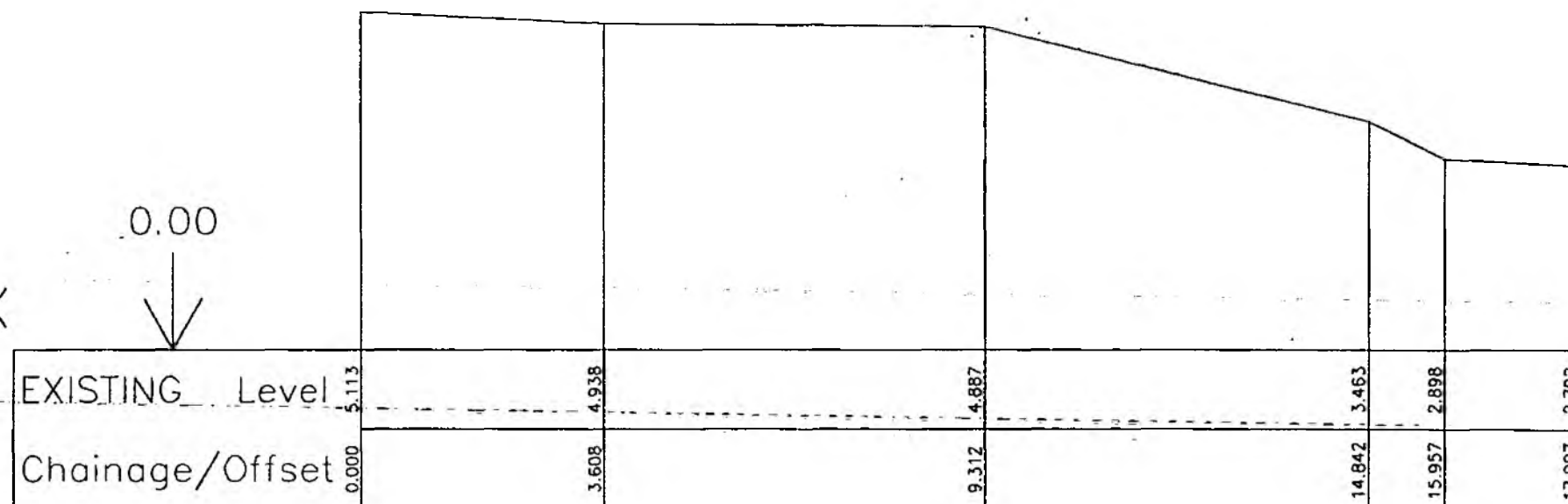
0.00
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Horiz. = 1:100 Vert. = 1:100

6304X

0.00
↓



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Worthing
Sussex BN11 1LD

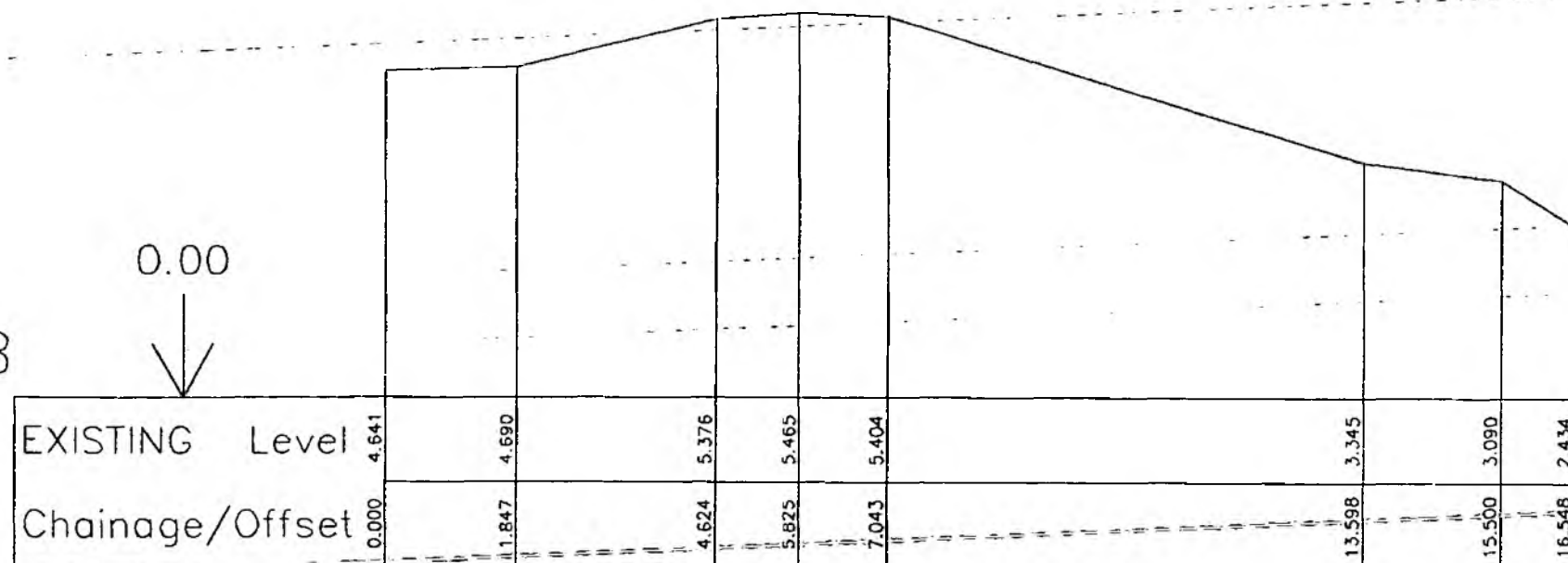
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

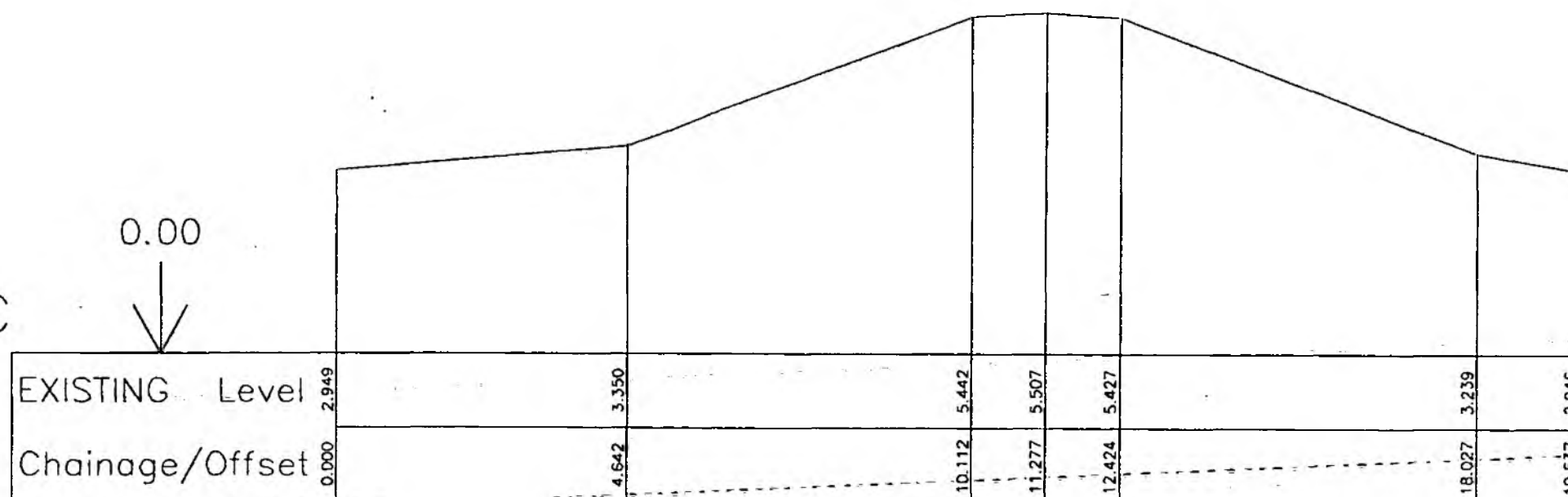
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6305B

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6305C

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

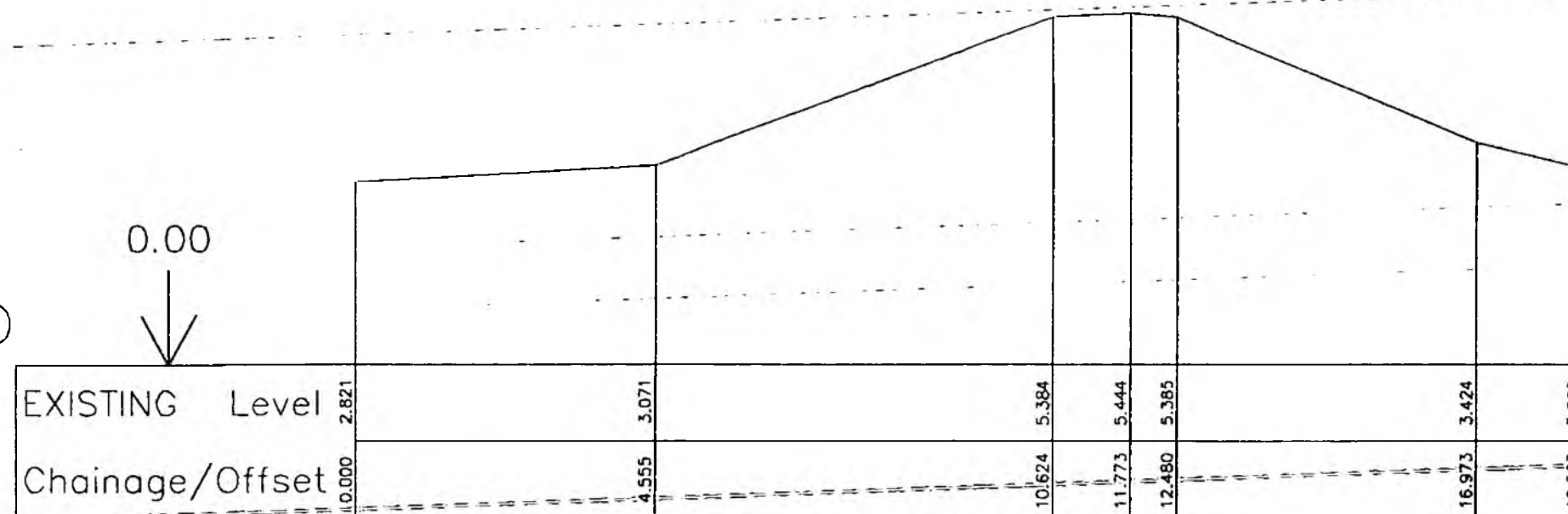
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6305D

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

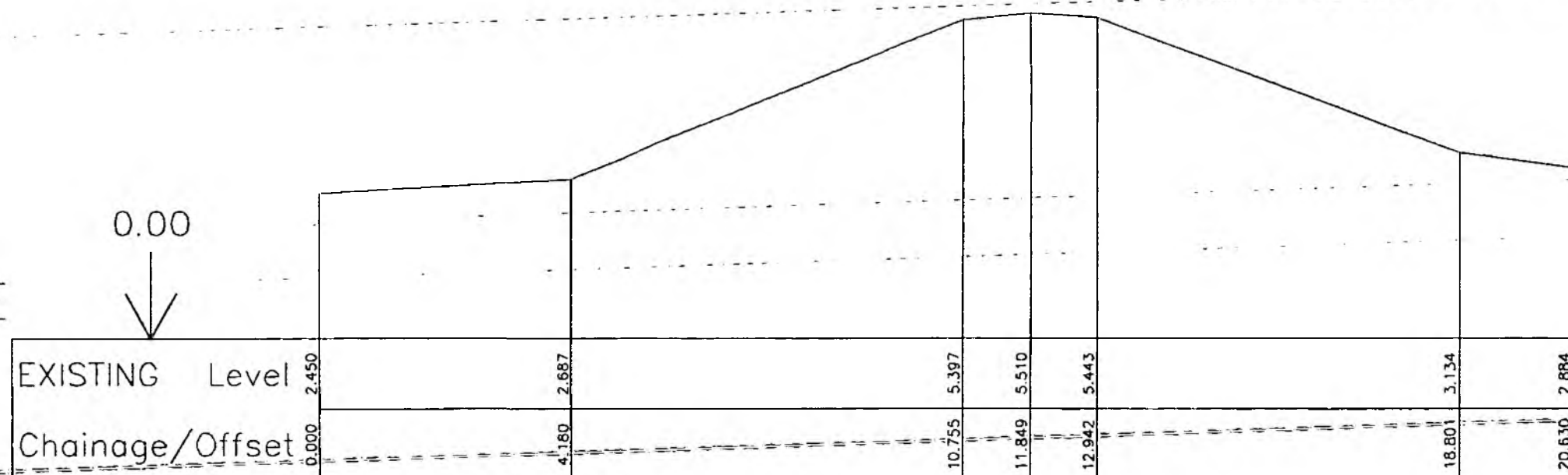
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyne & Nott

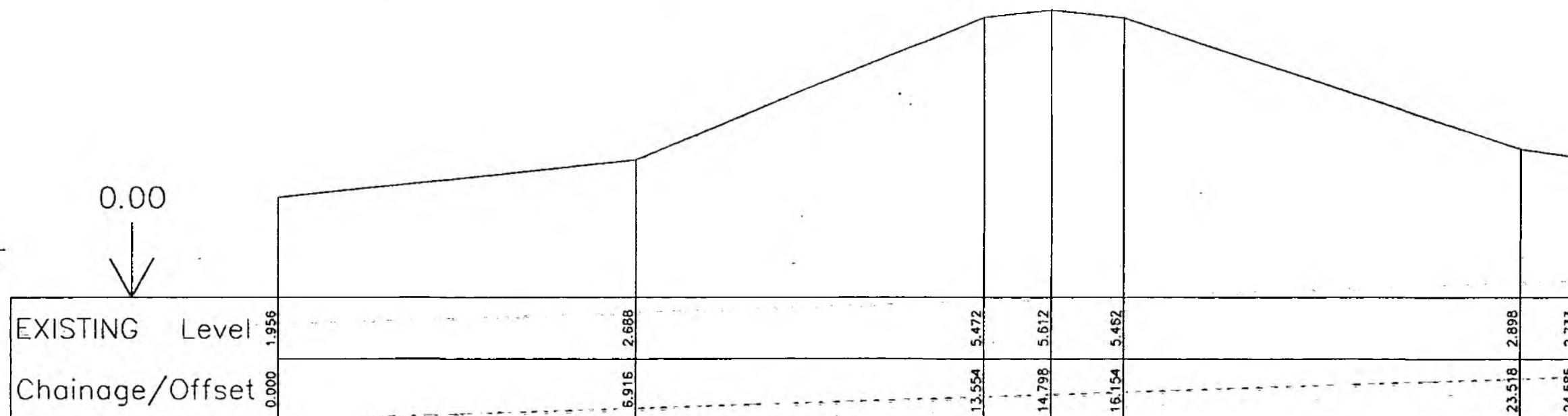
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Sh. CM23 2ER

6305E

0.00
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Horiz. = 1:100 Vert. = 1:100

6305F

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Worthing
Sussex BN11 1LD

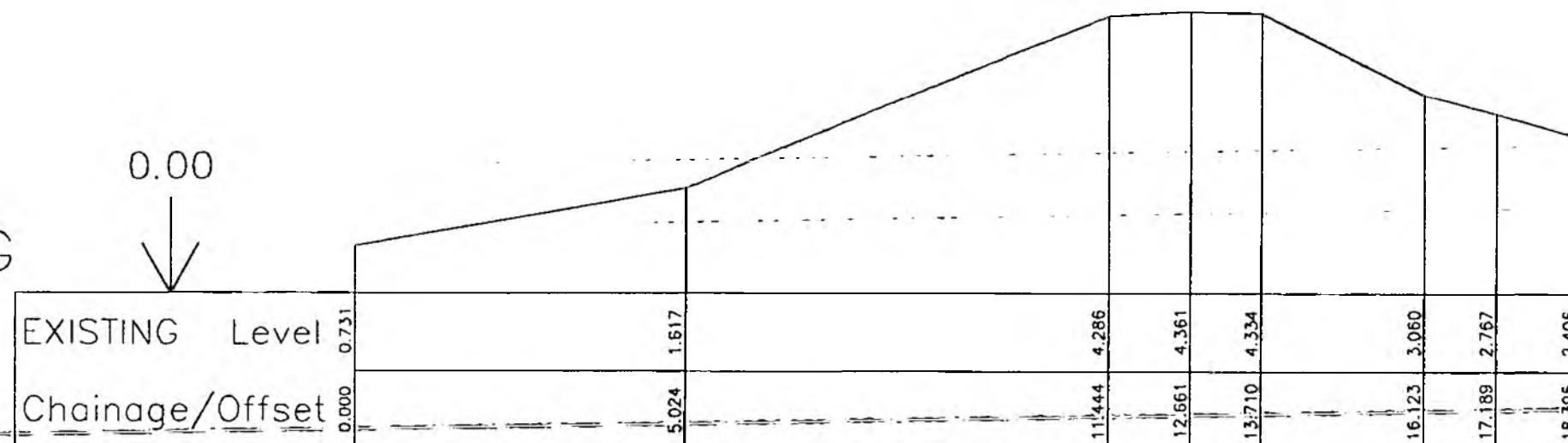
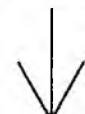
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6305G

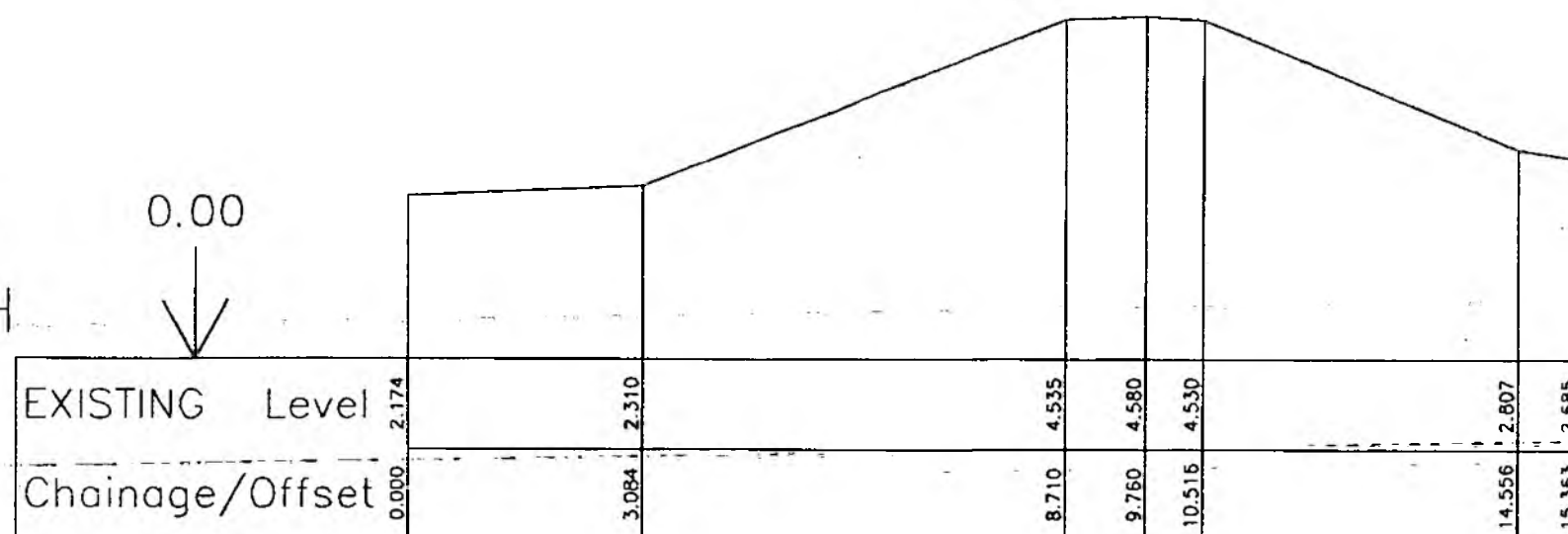
0.00



Horiz. = 1:100 Vert. = 1:100

6305H

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Sussex BN11 1LD

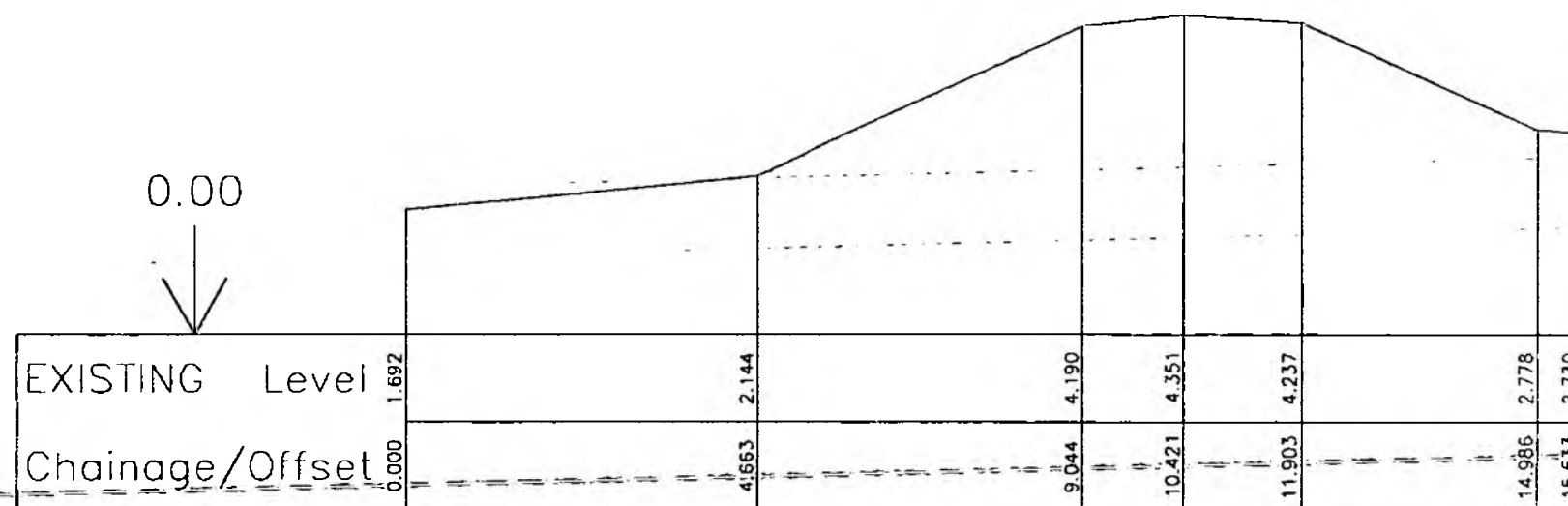
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rathbone

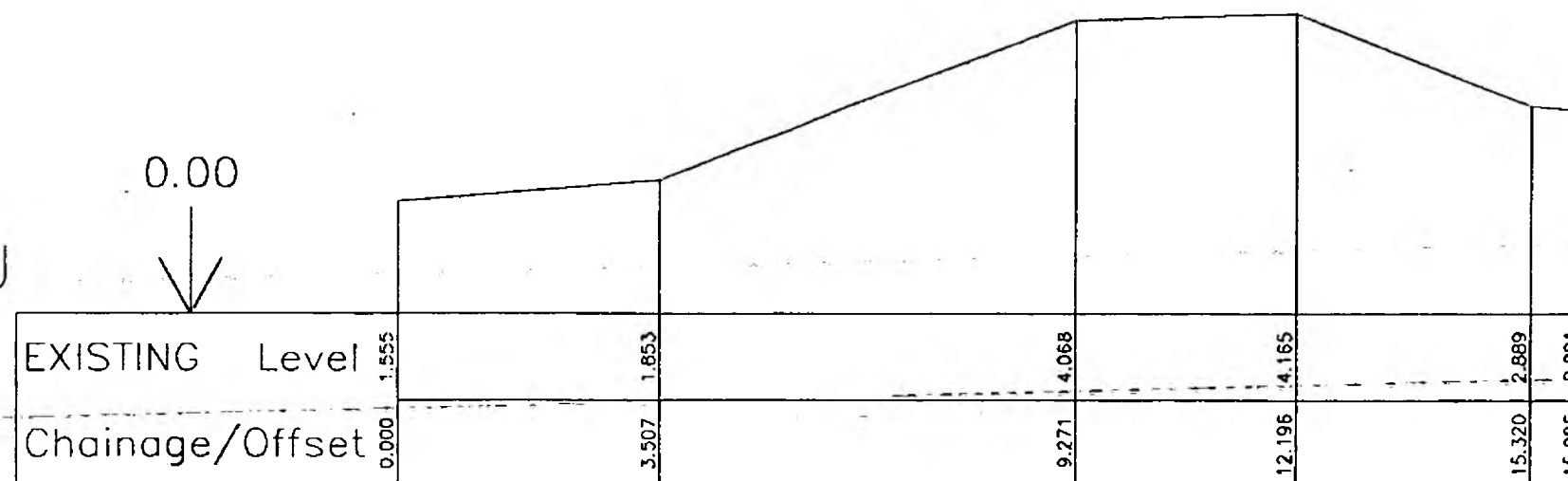
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6305I

0.00
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Horiz. = 1:100 Vert. = 1:100

6305J

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

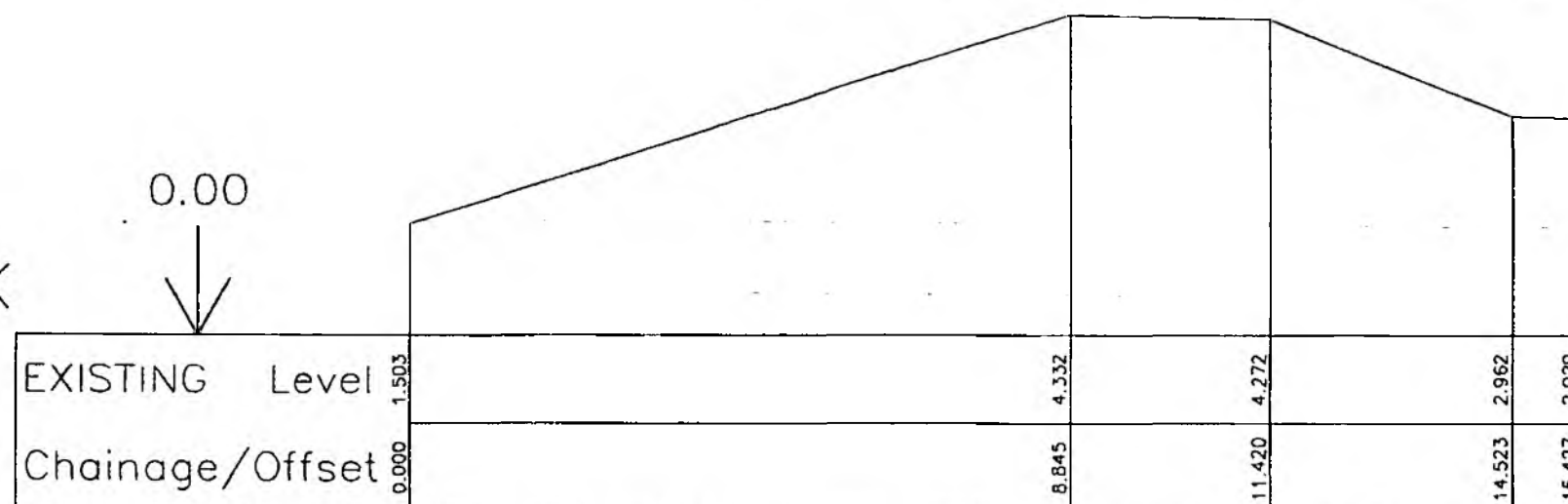
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

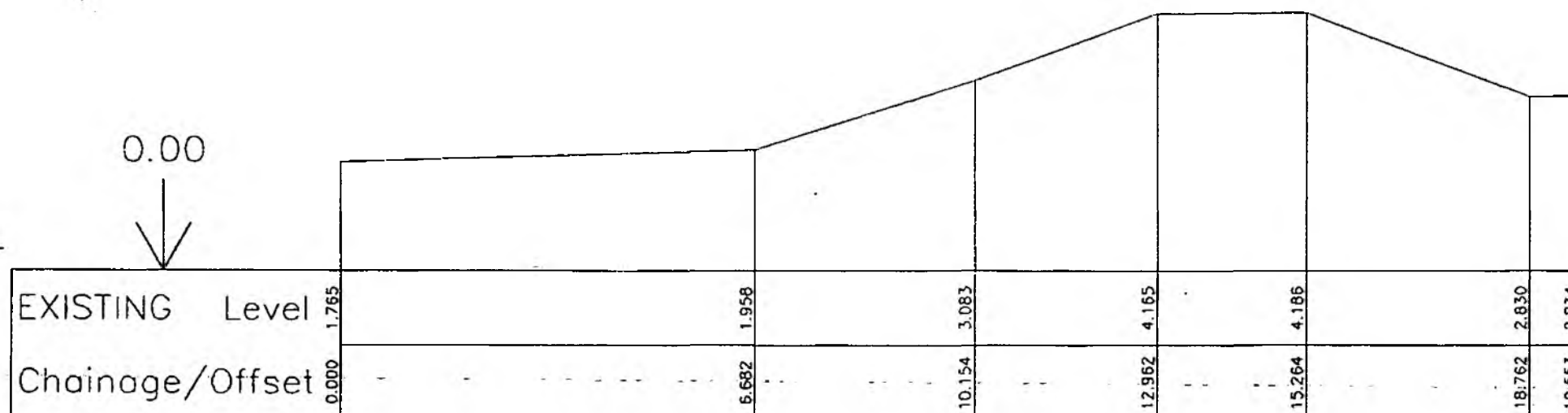
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CV23 2LR

6305K

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6305L

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Worthing
Sussex BN11 1LD

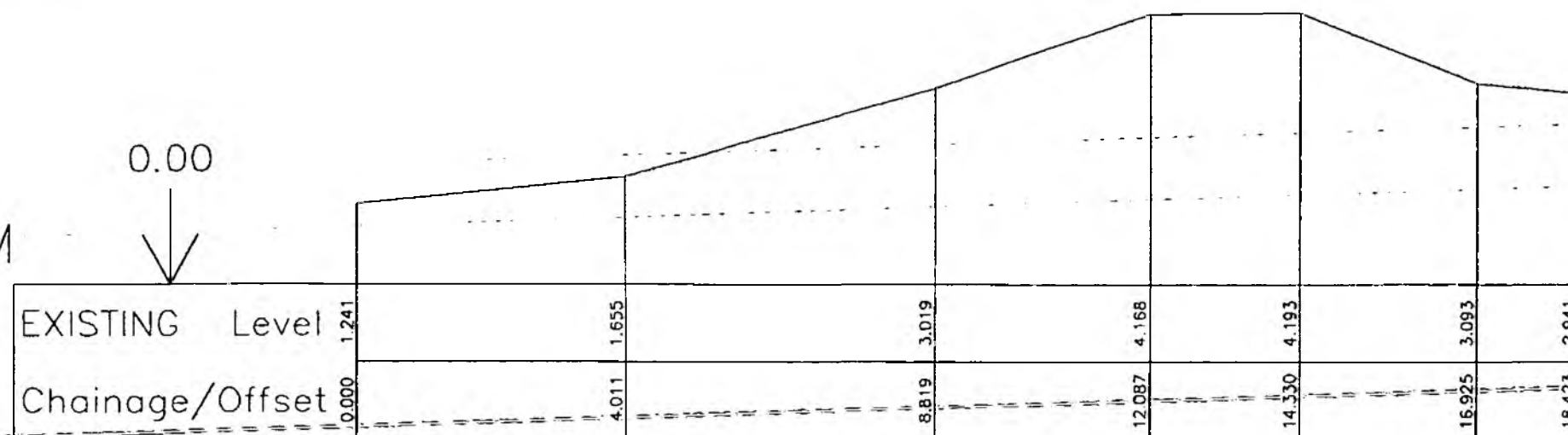
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
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6305M

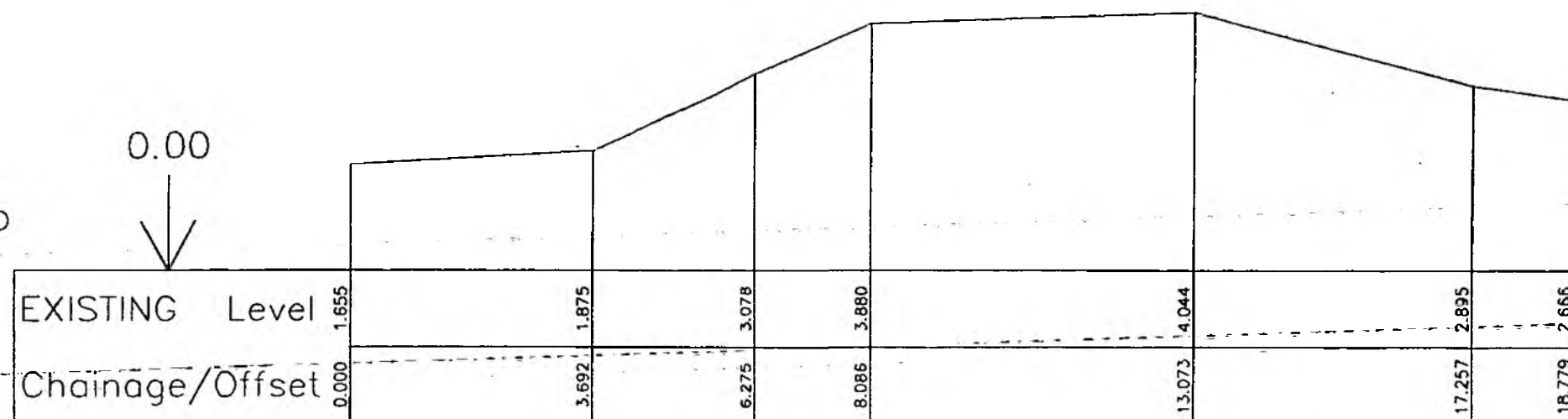
0.00
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Horiz. = 1:100 Vert. = 1:100

6305P

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

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Sussex BN1 1 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

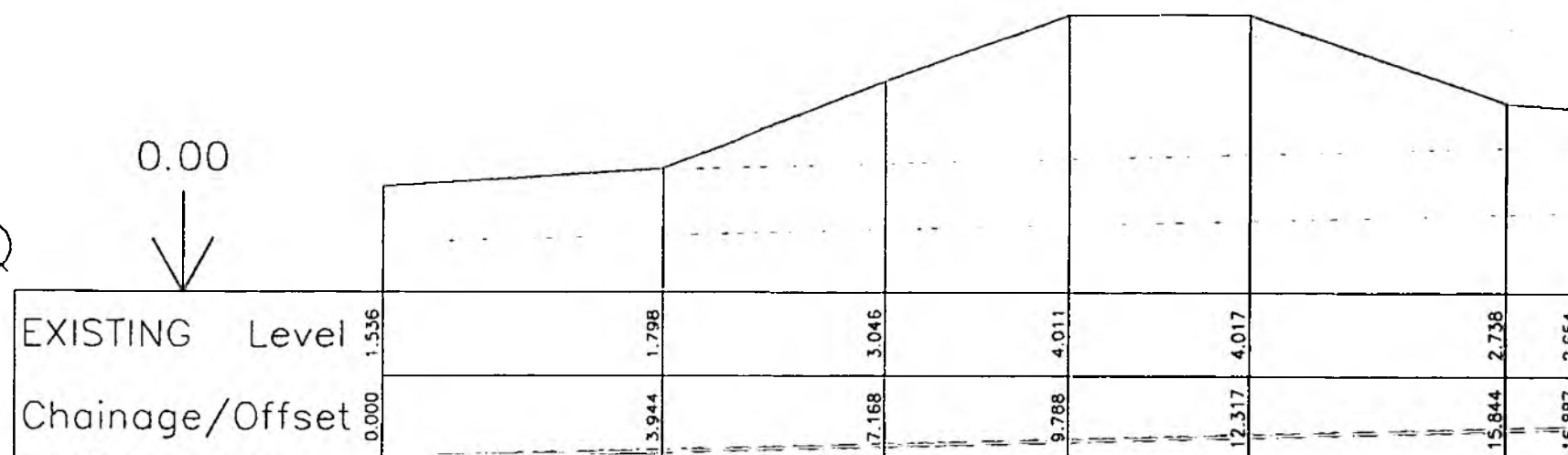
CROSS-SECTIONS

Figgs & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Sh. CM23 2LR

6305Q

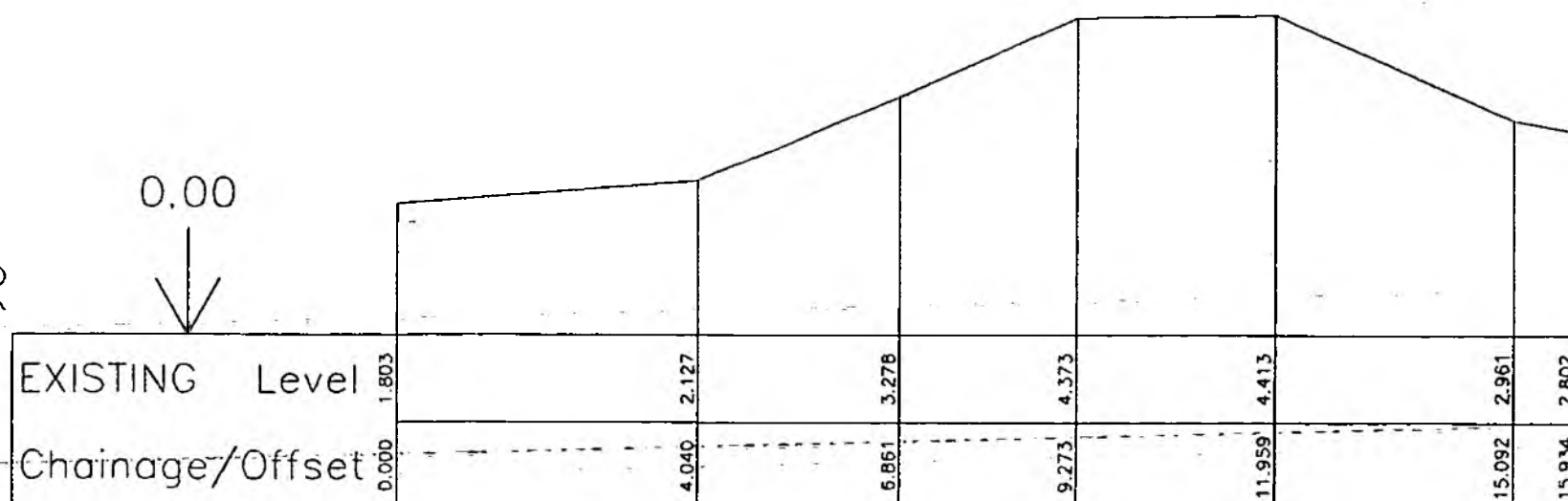
0.00



Horiz. = 1:100 Vert. = 1:100

6305R

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

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Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

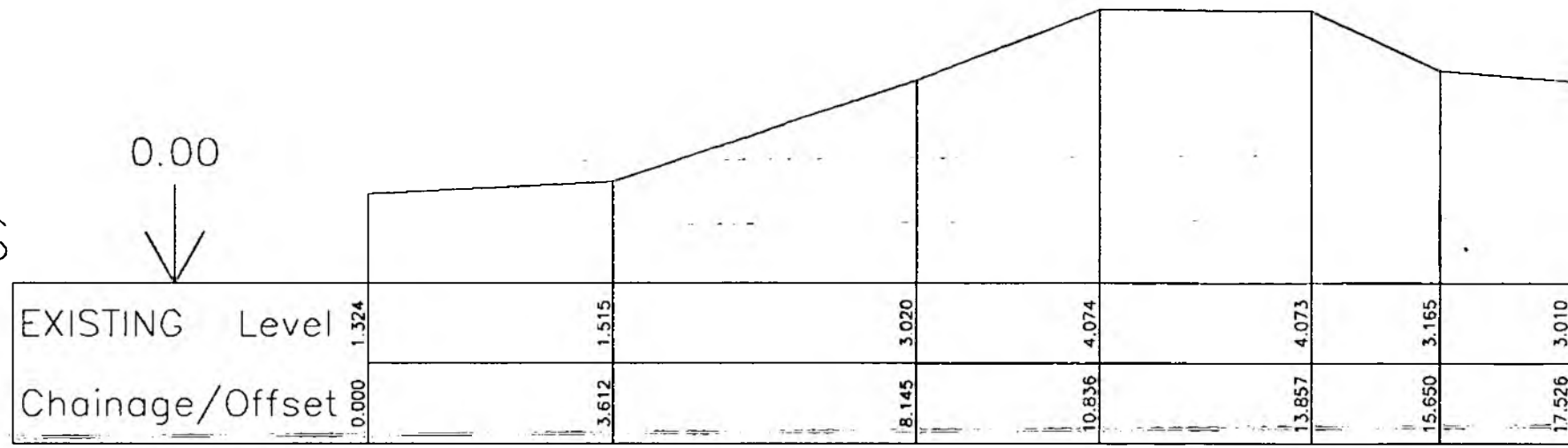
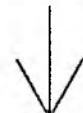
CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Herefordshire CM23 2ER

6305S

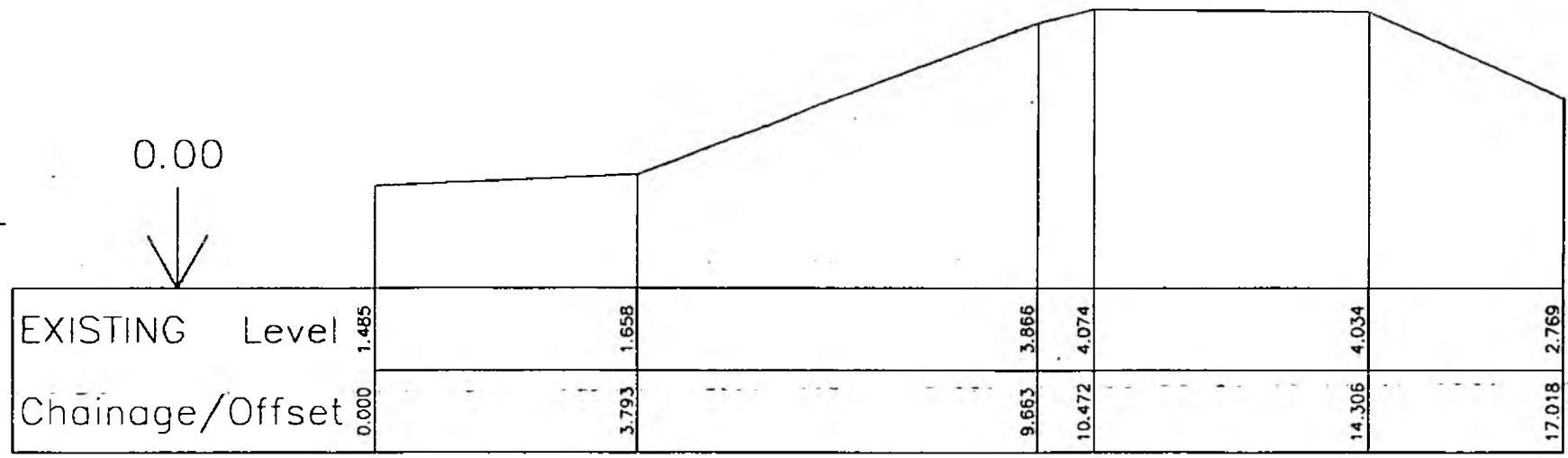
0.00



Horiz. = 1:100 Vert. = 1:100

6305T

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

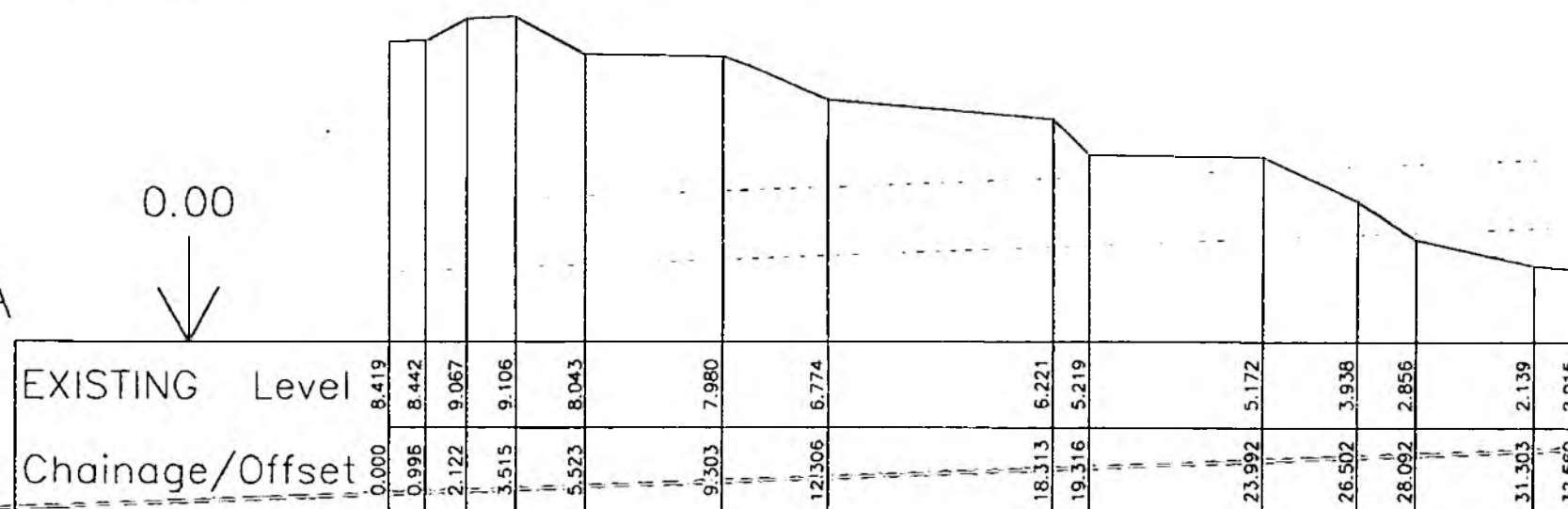
CROSS-SECTIONS

Hyman & Rothwell

CONSULTING ENGINEERS
Charrington House, The Coveaway
Bishop's Stortford, Herts CM23 2ER

6306A

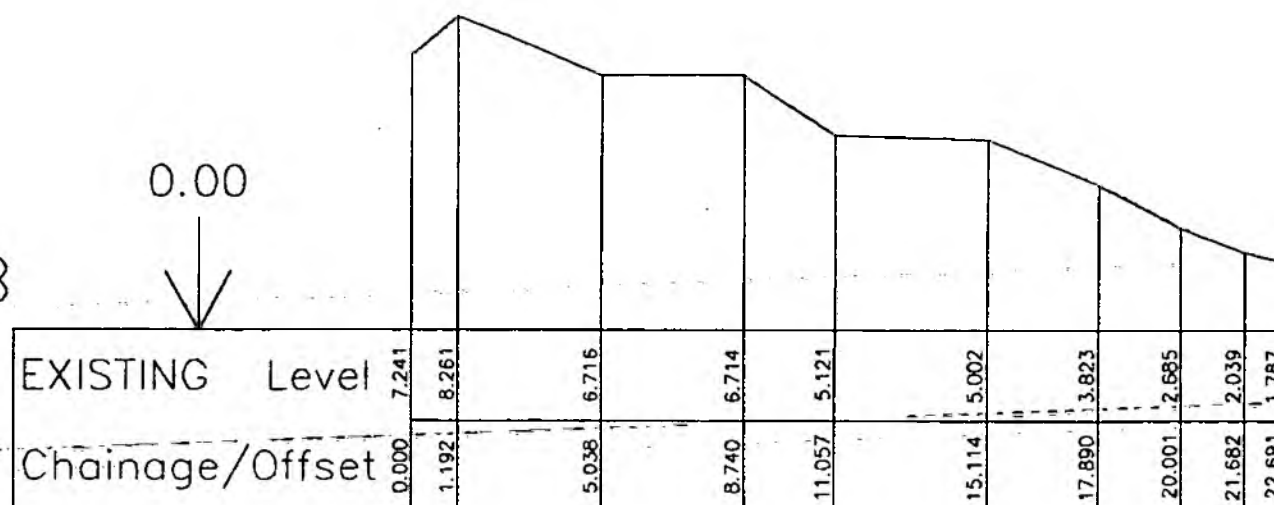
0.00



Horiz. = 1:200 Vert. = 1:200

6306B

0.00



Horiz. = 1:200 Vert. = 1:200



NRA

National Rivers Authority
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Worthing

Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Signs & Placemats

CONSULTING ENGINEERS

Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2LR

6306D

0.00



EXISTING Level	6.963	7.872	7.787	6.334	6.382	5.020	4.850	3.934	2.728	2.436	1.672	1.424
Chainage/Offset	0.000	1.248	2.153	4.774	8.577	11.033	14.567	17.007	18.228	19.345	22.185	23.710

Horiz. = 1:100 Vert. = 1:100

6306E

0.00



EXISTING Level	6.591	7.526	7.455	5.166	4.758	3.647	2.881	2.695	2.041	1.905
Chainage/Offset	0.000	1.173	1.715	4.861	11.537	14.302	14.659	16.215	17.861	19.525

Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

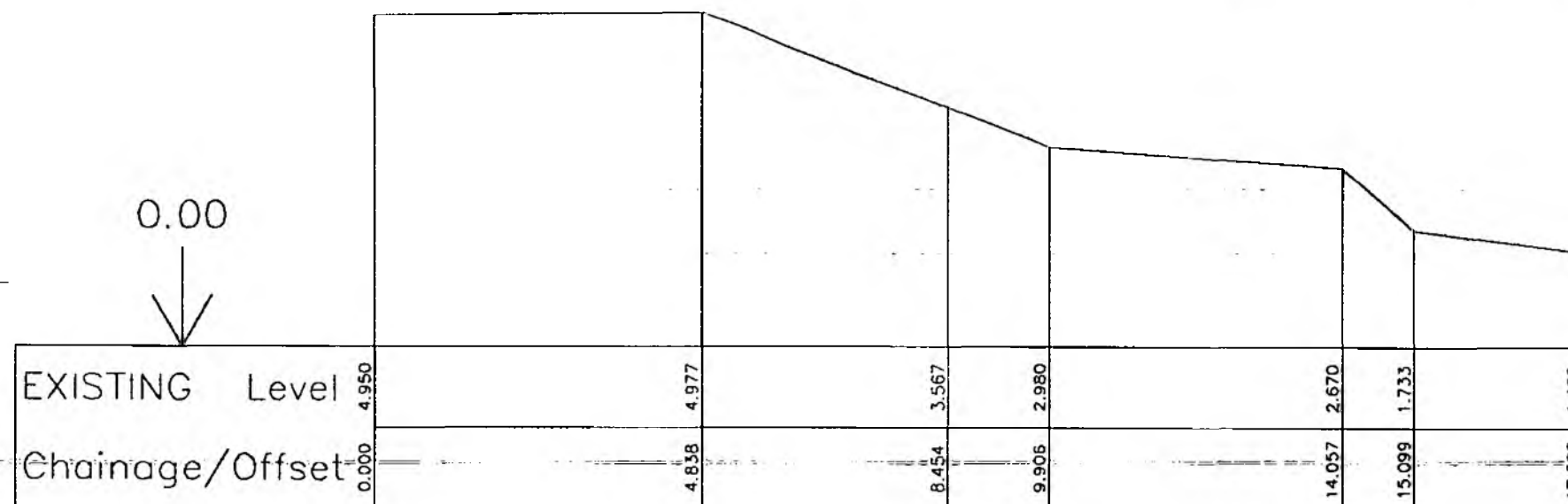
CROSS-SECTIONS

Signs & Placemats

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6306F

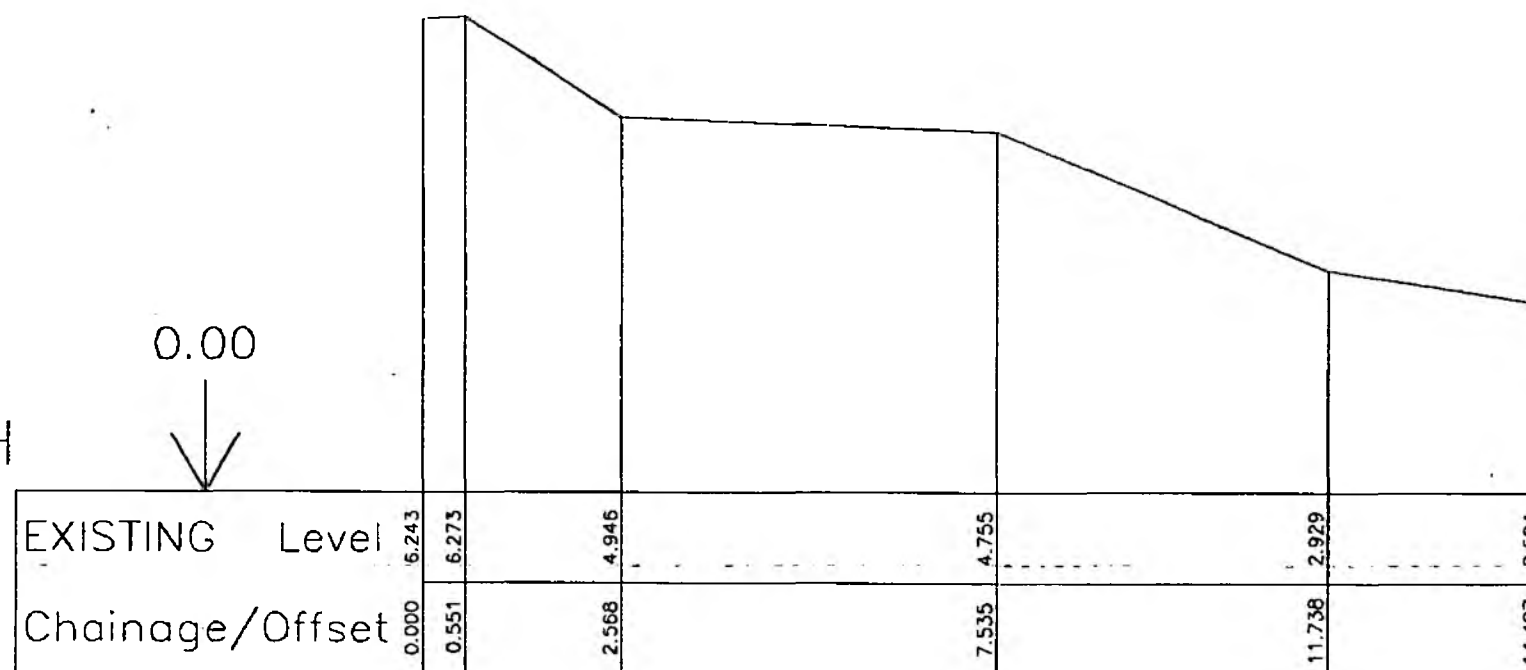
0.00



Horiz. = 1:100 Vert. = 1:100

6306H

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

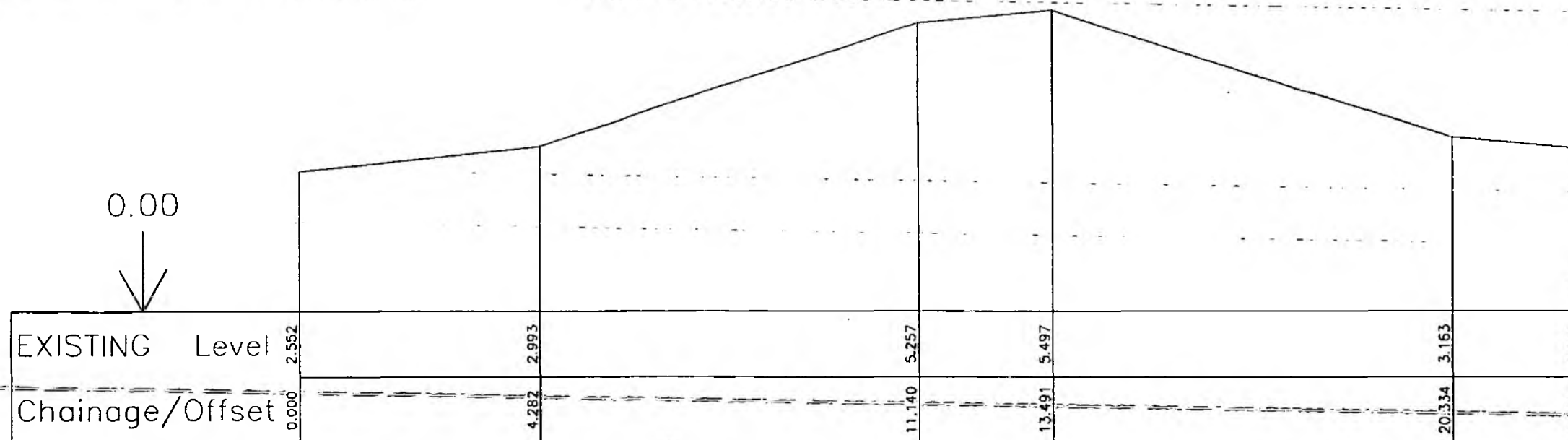
CROSS-SECTIONS

Fryer & Rotherham

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, Shrewsbury CM23 2ER

6306I

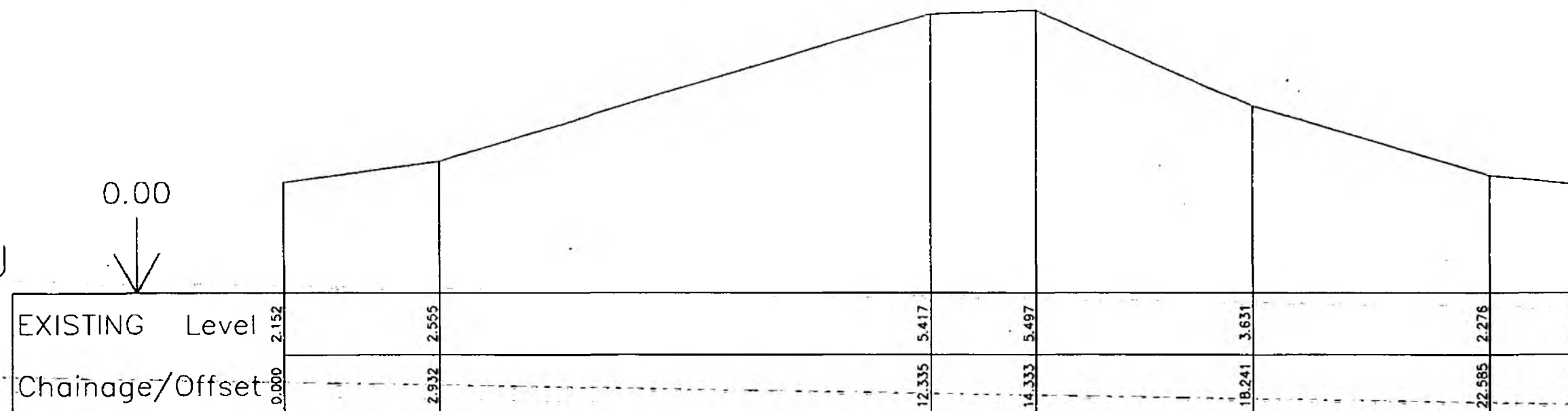
0.00
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Horiz. = 1:100 Vert. = 1:100

6306J

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chalsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, CV23 7EK

6306K

0.00
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EXISTING Level	2.040	2.761	5.320	5.362	3.358	2.029	1.939
Chainage/Offset	0.000	6.006	13.103	15.282	19.484	24.601	25.435

Horiz. = 1:100 Vert. = 1:100

6306L

0.00
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EXISTING Level	1.815	2.843	5.273	5.302	3.338	2.142	2.006
Chainage/Offset	0.000	7.315	13.702	16.307	20.774	24.454	25.770

Horiz. = 1:100 Vert. = 1:100



NRA

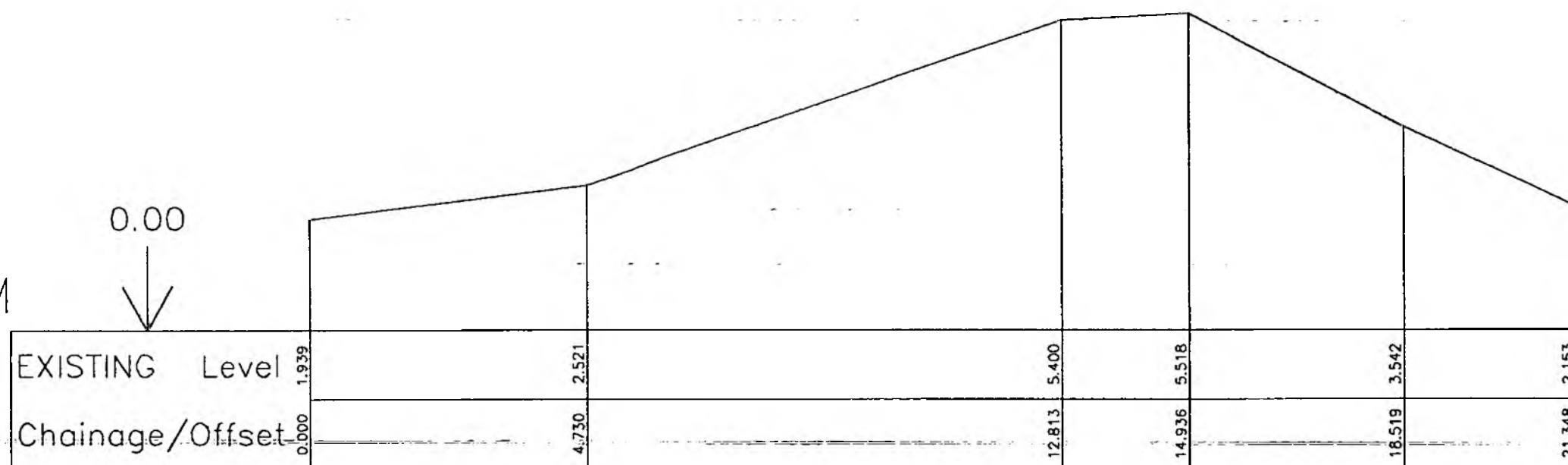
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

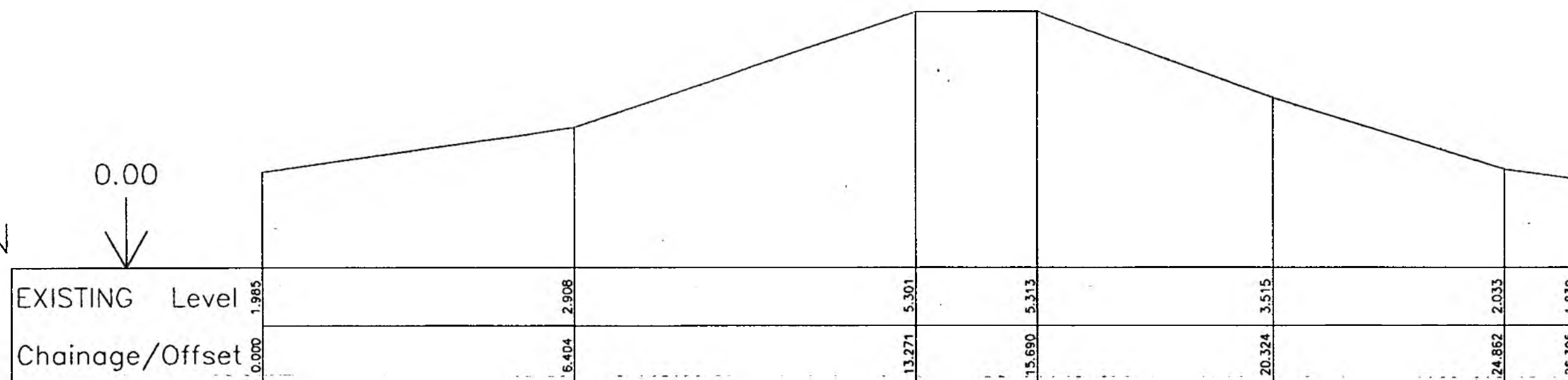
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2ER

6306M

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Horiz. = 1:100 Vert. = 1:100

6306N

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Horiz. = 1:100 Vert. = 1:100



NRA

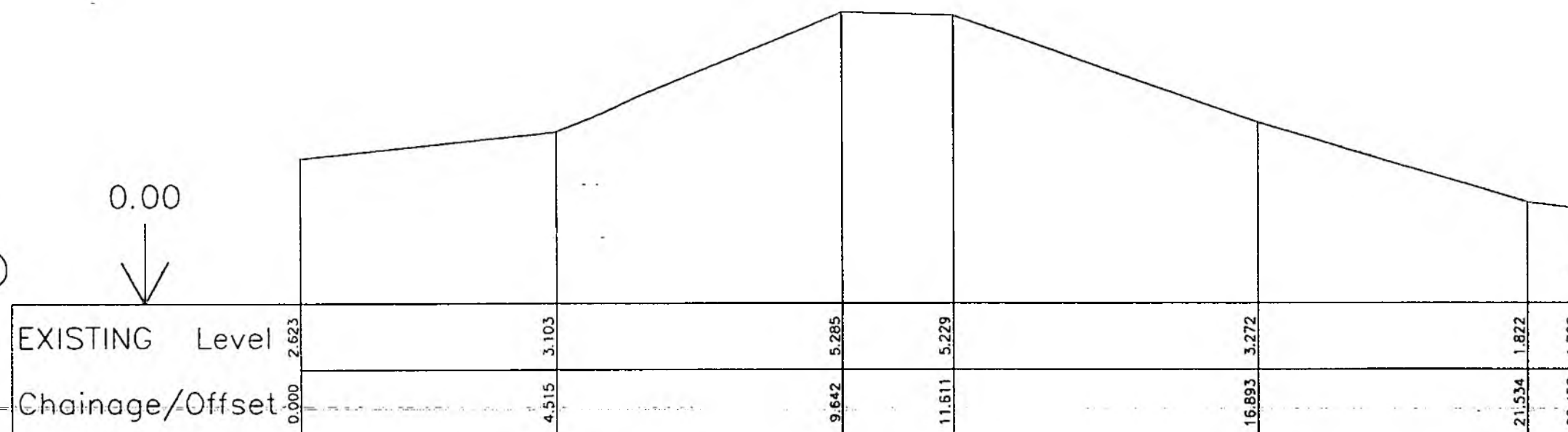
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

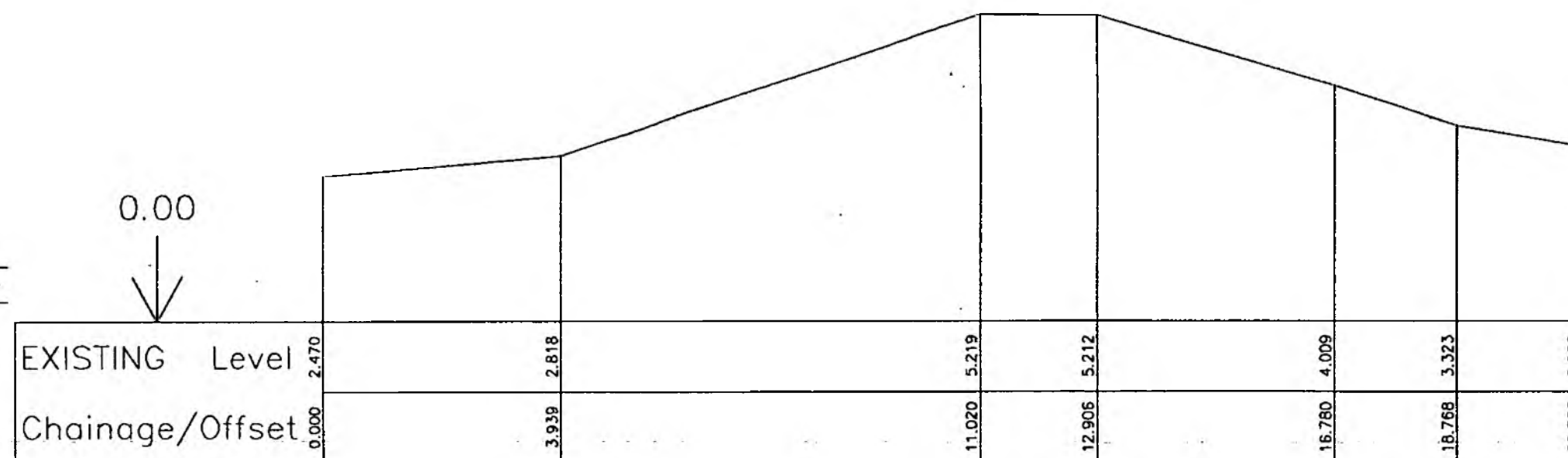
CONSULTING ENGINEERS
Chorlinton House, The Causeway
Bishop's Cleeve, Shropshire, CV23 2ER

6307D

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Horiz. = 1:100 Vert. = 1:100

6307E

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

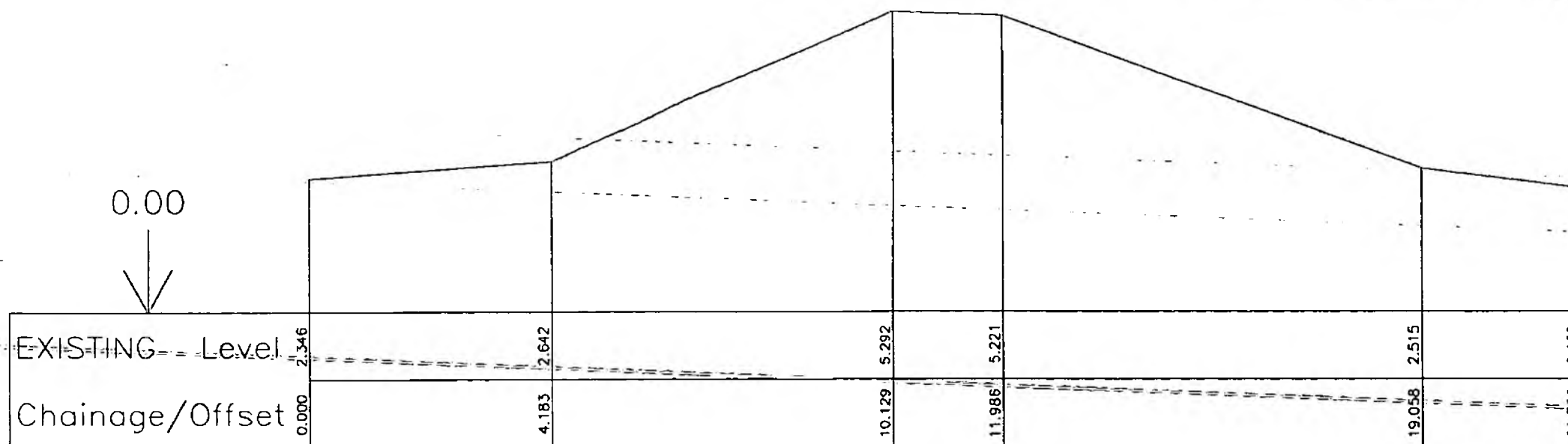
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

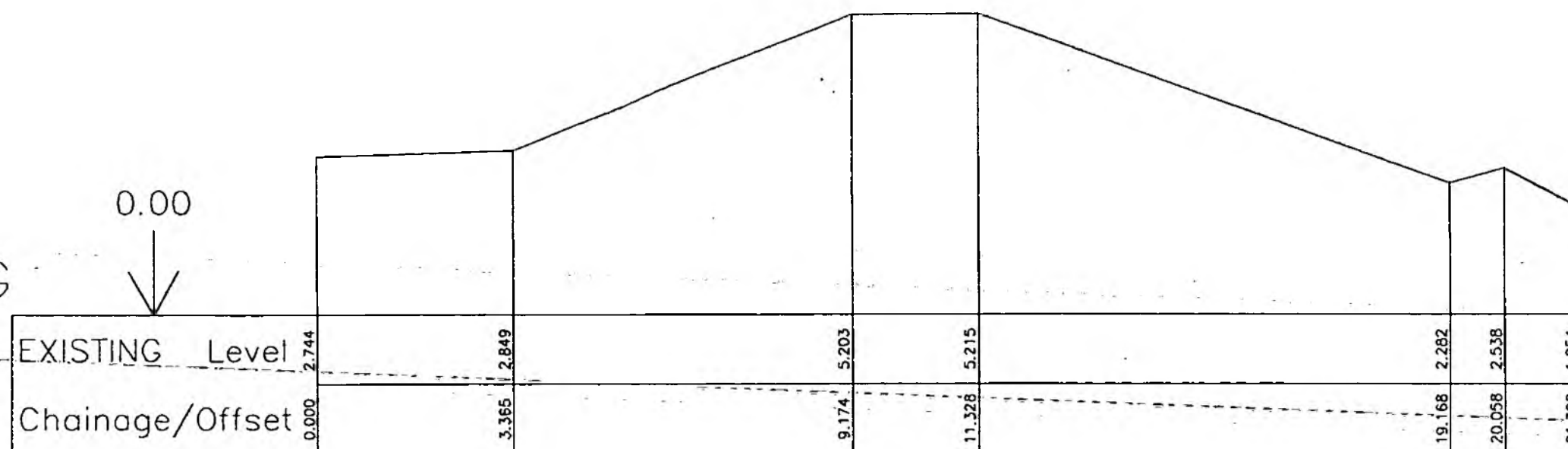
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, CW23 2ER

6307F

0.00
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Horiz. = 1:100 Vert. = 1:100

6307G

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyne & Rodwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Glebe's Stortford, Herts CM23 2ER

6307H

0.00
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EXISTING Level	2.843	3.100	5.260	5.254	2.968	2.763
Chainage/Offset	0.000	3.962	10.682	12.598	18.187	20.464

Horiz. = 1:100 Vert. = 1:100

6307I

0.00
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EXISTING Level	3.008	3.132	5.407	5.318	3.031	2.718
Chainage/Offset	0.000	5.354	11.140	13.266	19.313	21.388

Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing

Sussex BN11 1LD

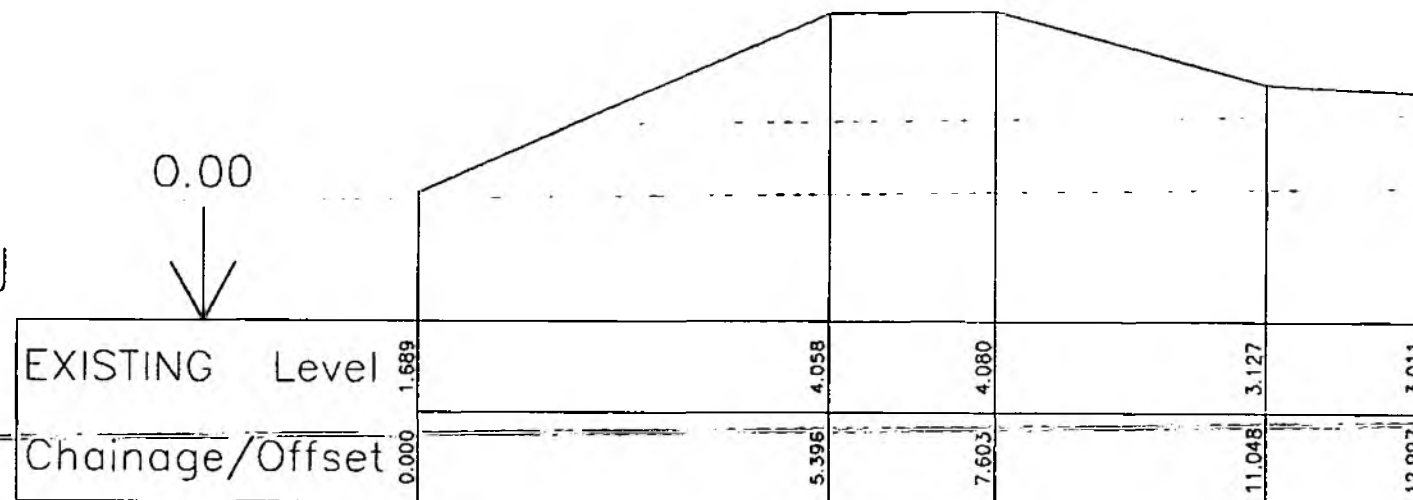
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rathbone

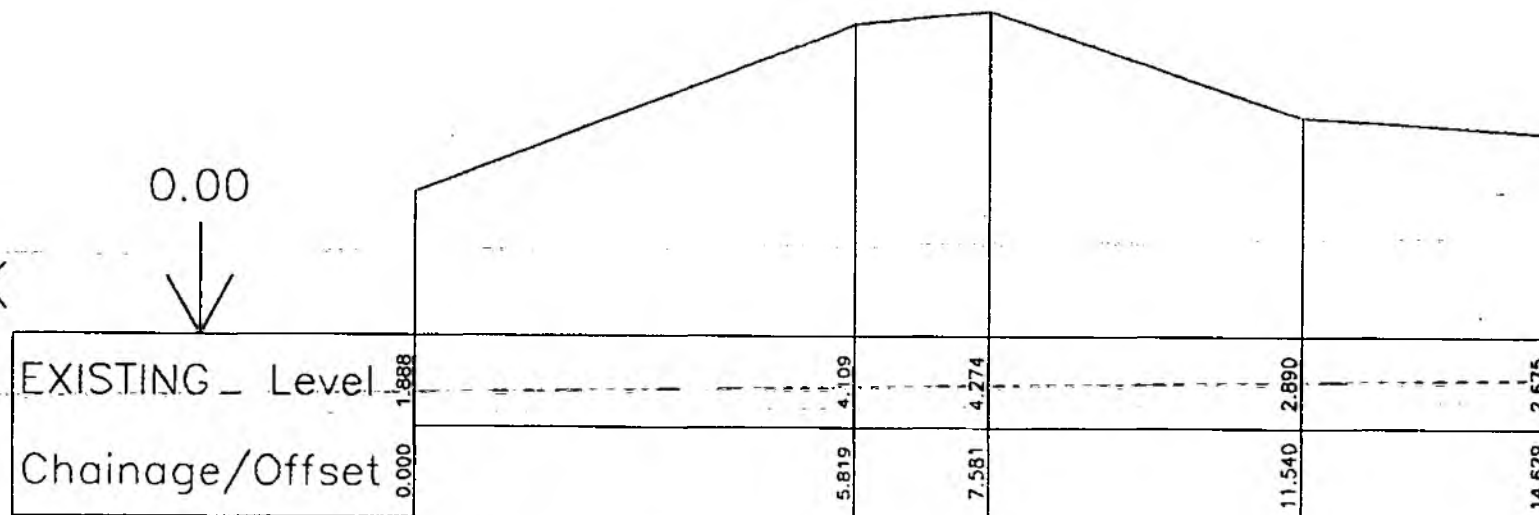
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6307J

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Horiz. = 1:100 Vert. = 1:100

6307K

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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

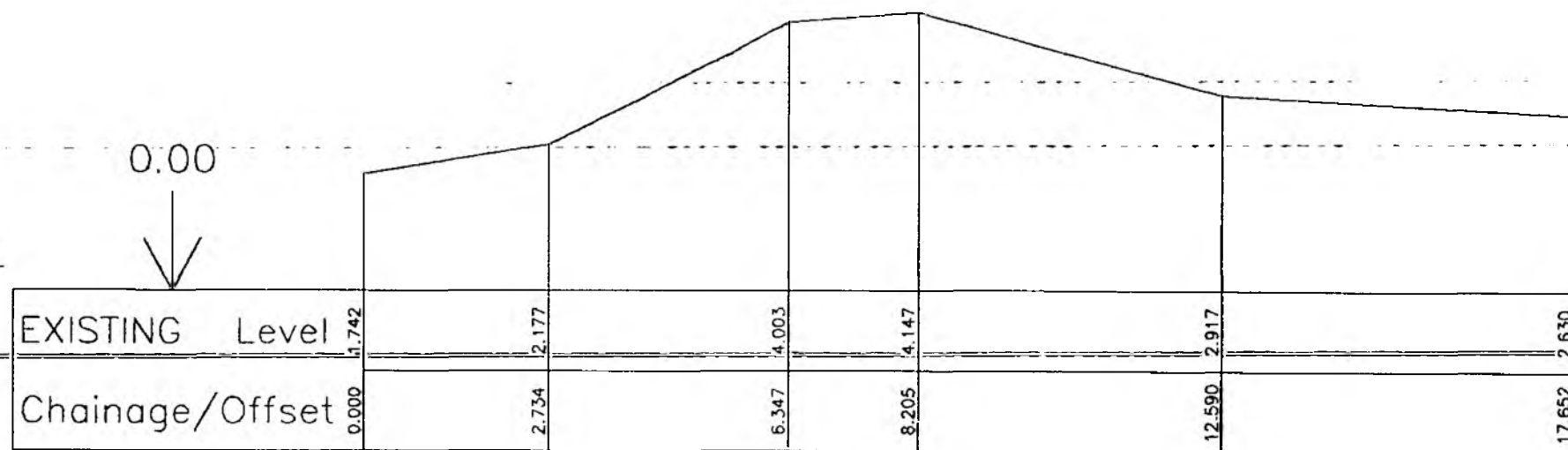
CROSS-SECTIONS

James G. Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2ER

6307L

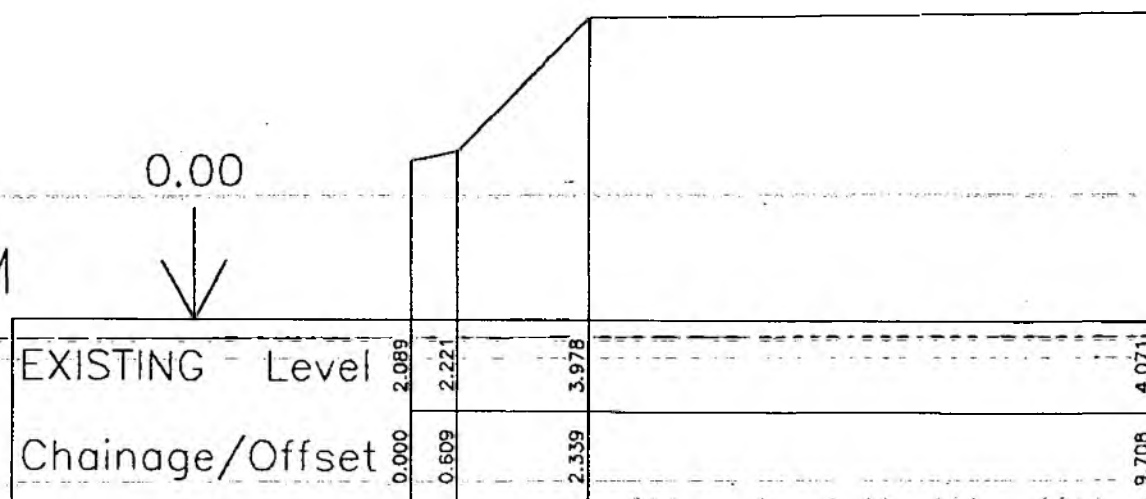
0.00
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Horiz. = 1:100 Vert. = 1:100

6307M

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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Sussex BN11 1JD

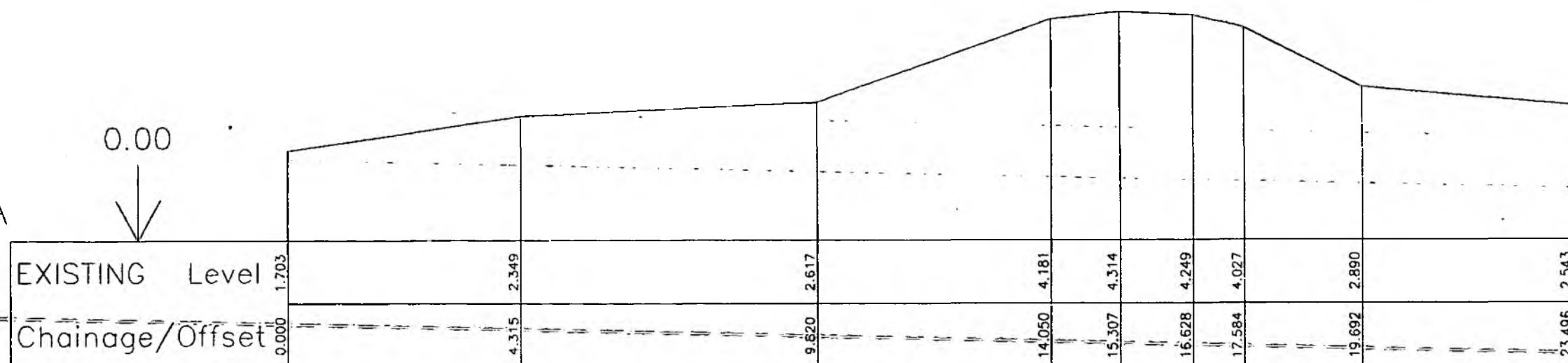
NATIONAL SEA-DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Figgs & Rothwell

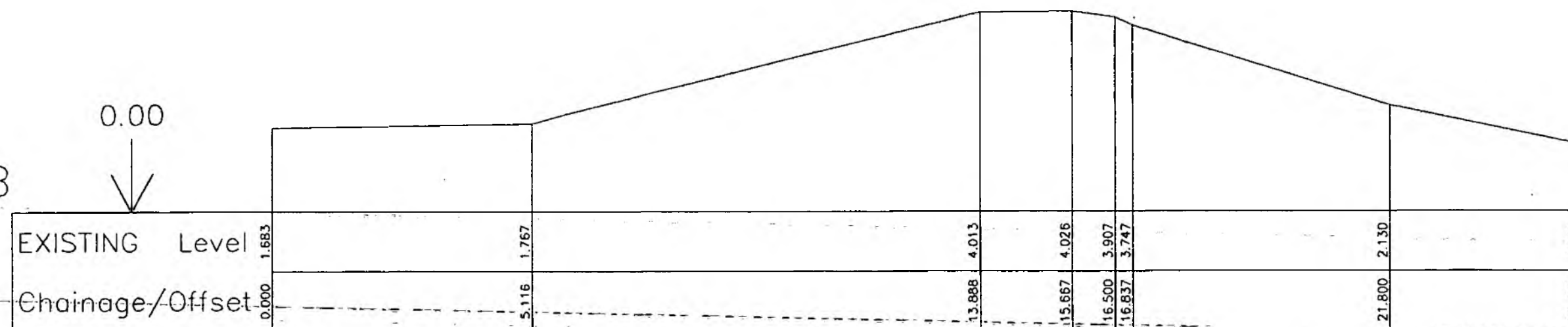
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire, CV23 2LR

6308A

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Horiz. = 1:100 Vert. = 1:100

6308B

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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

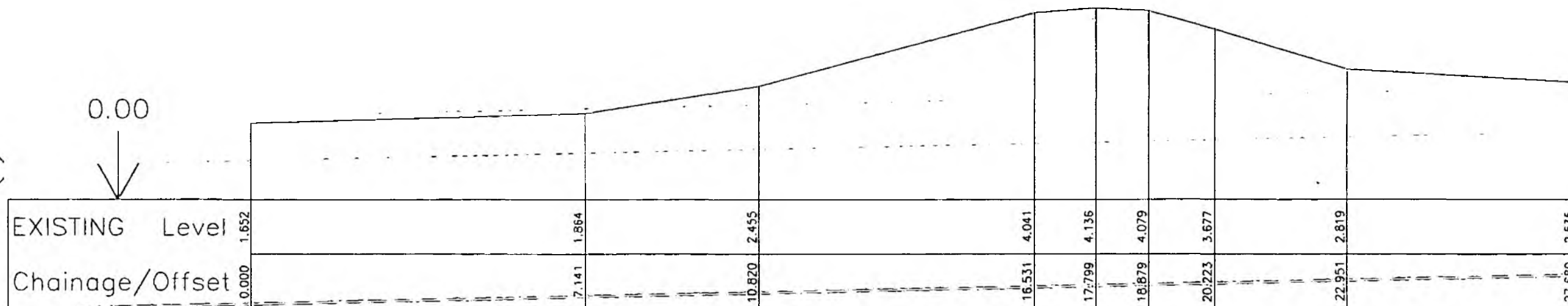
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6308C

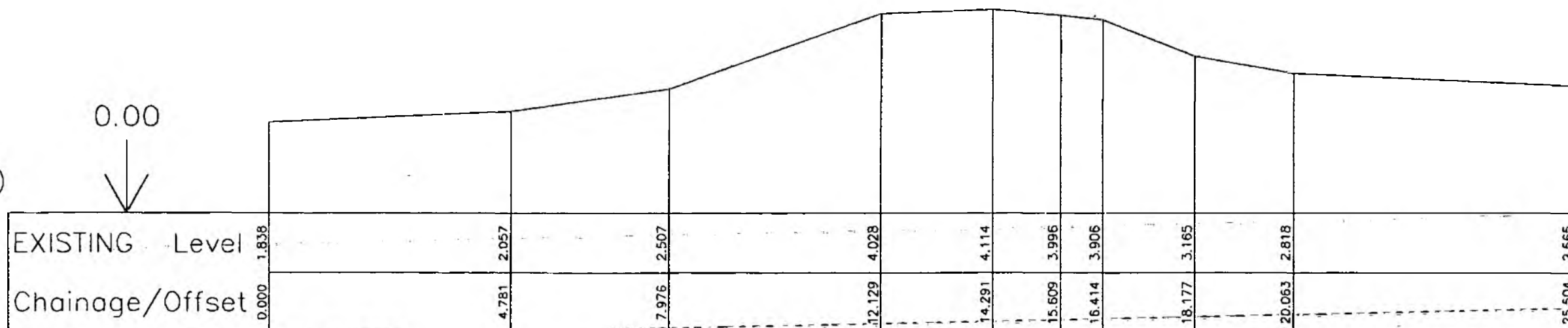
0.00



Horiz. = 1:100 Vert. = 1:100

6308D

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Sussex BN11 1LD

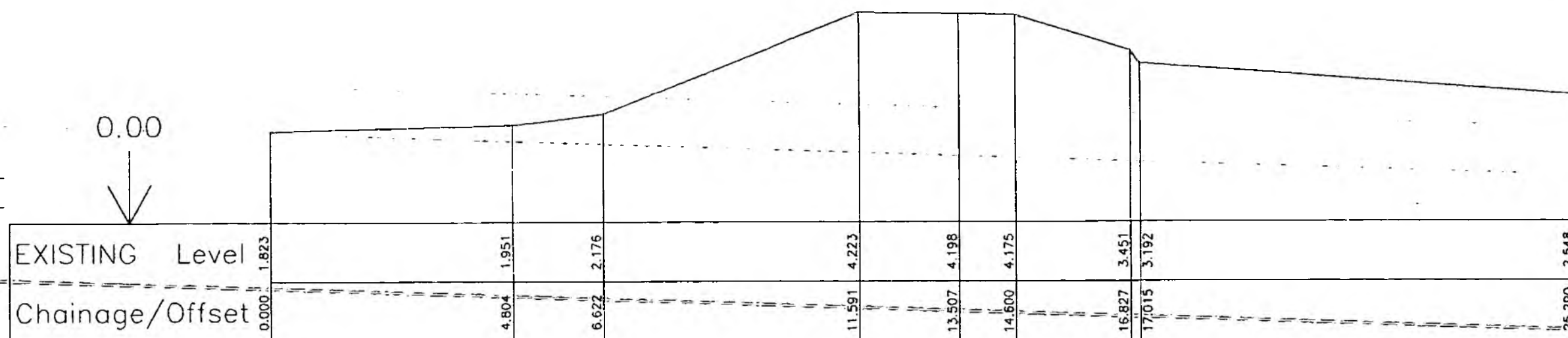
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

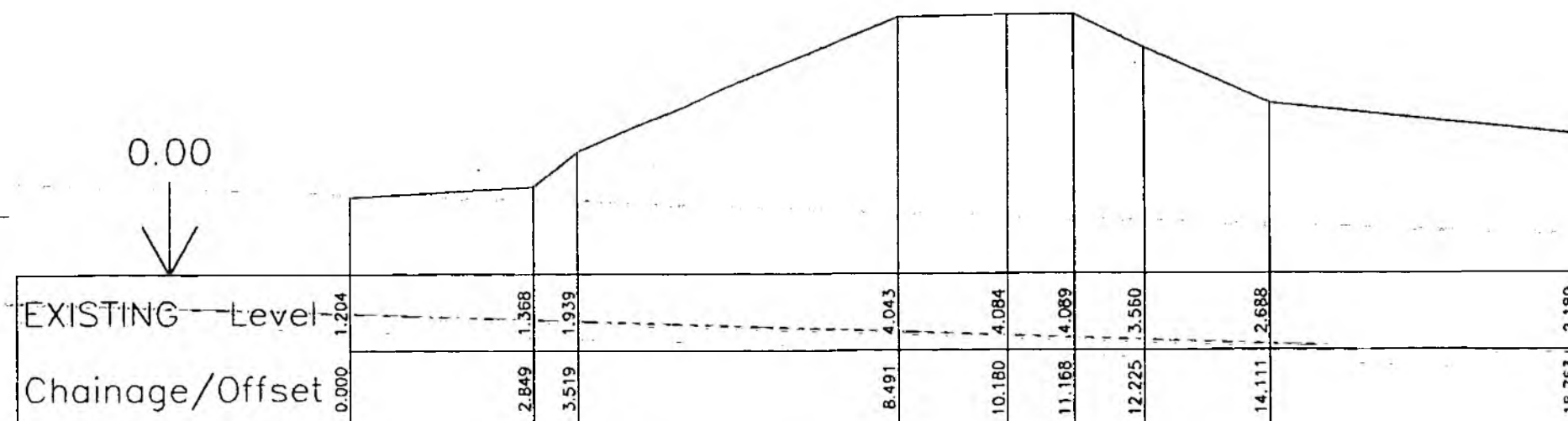
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2ER

6308E

0.00
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Horiz. = 1:100 Vert. = 1:100

6308F

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

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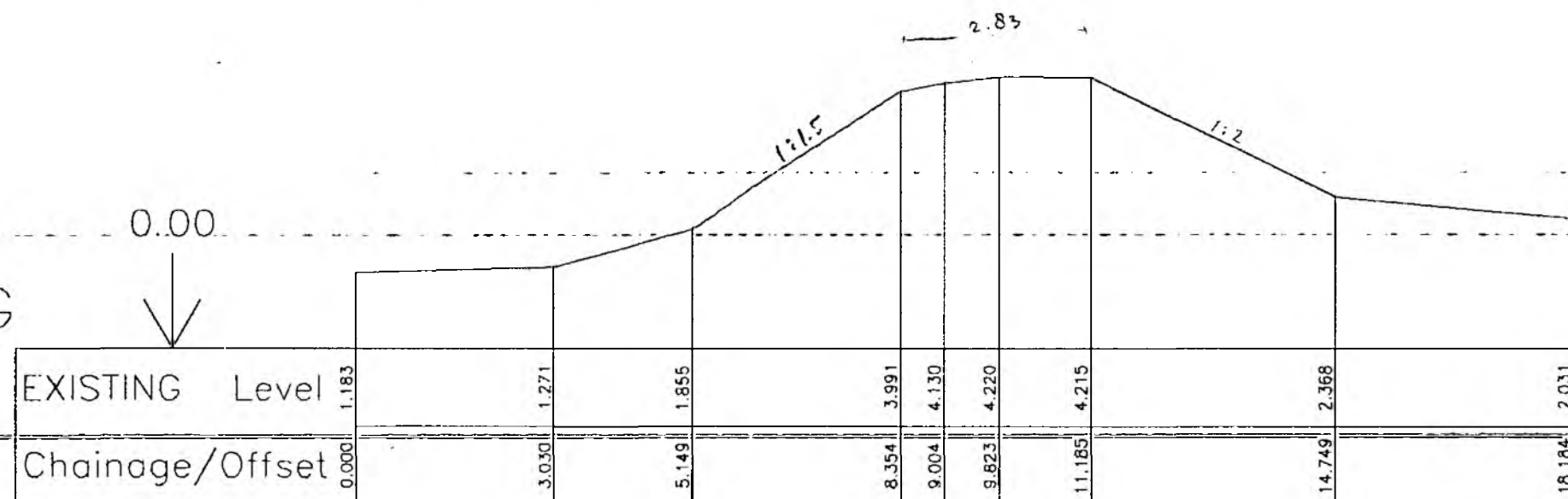
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6308G

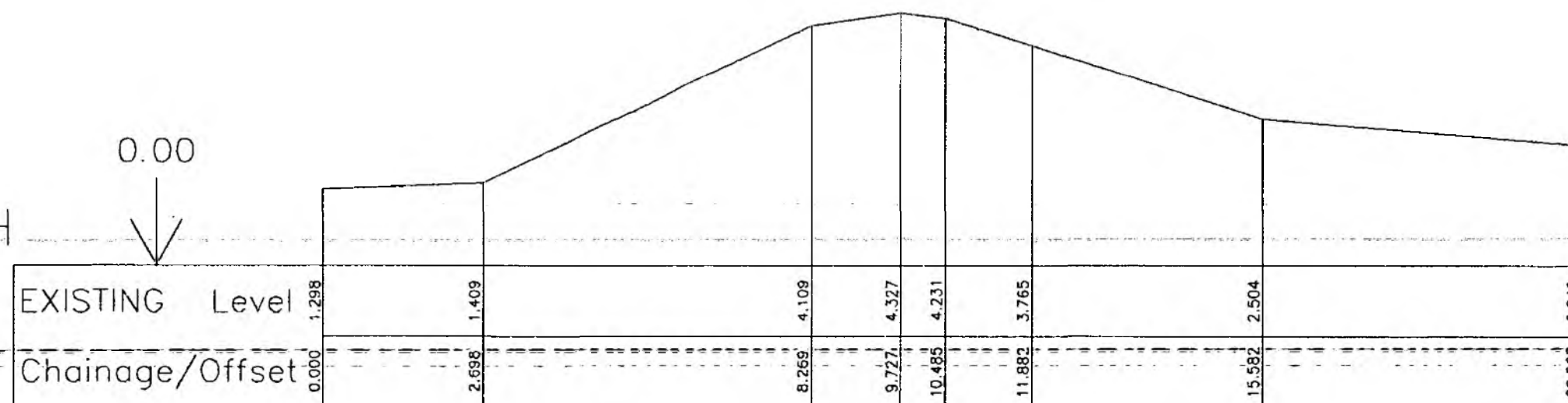
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Horiz. = 1:100 Vert. = 1:100

6308H

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

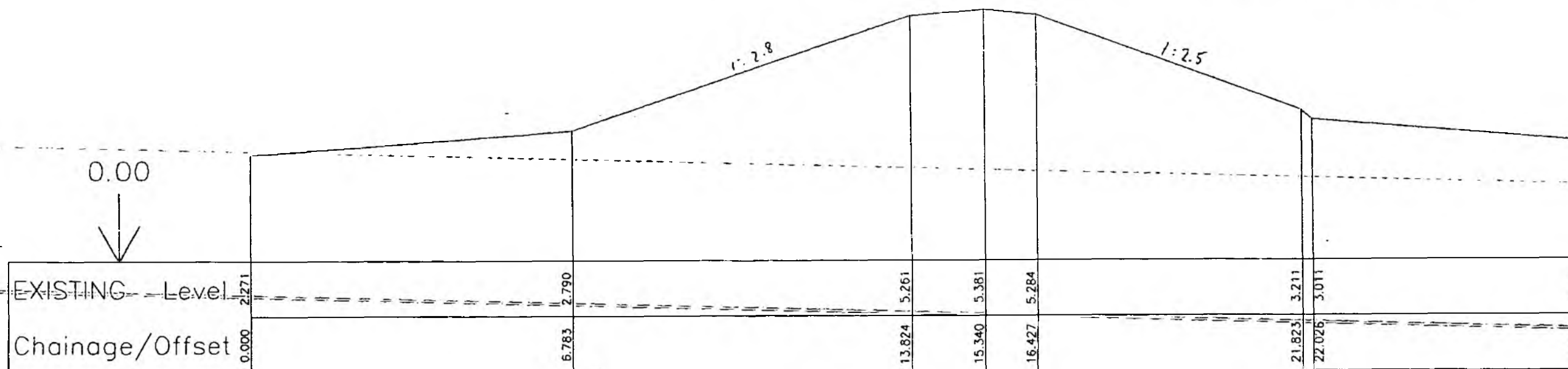
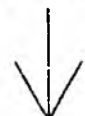
CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6308L

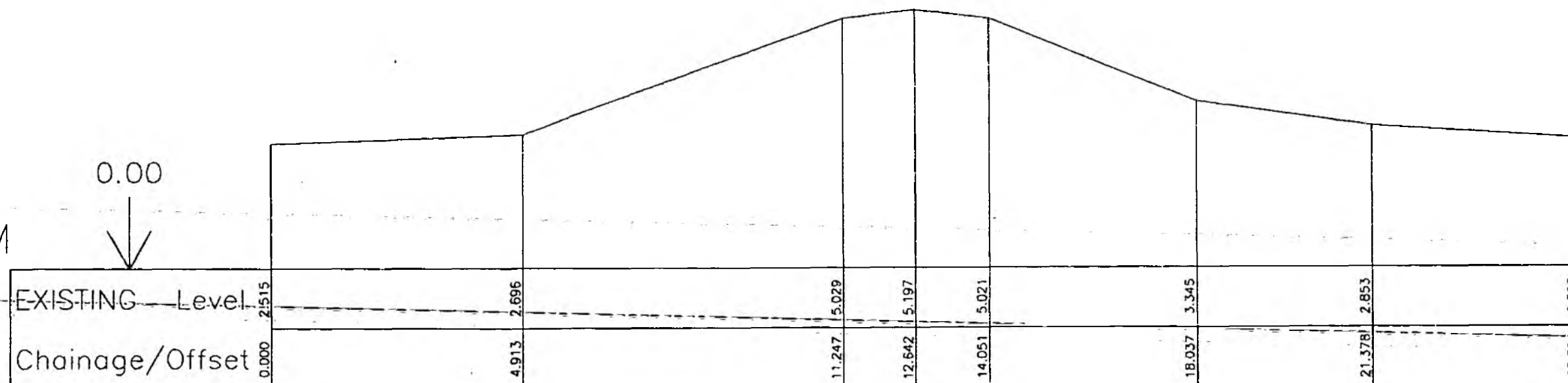
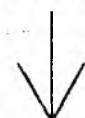
0.00



Horiz. = 1:100 Vert. = 1:100

6308M

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
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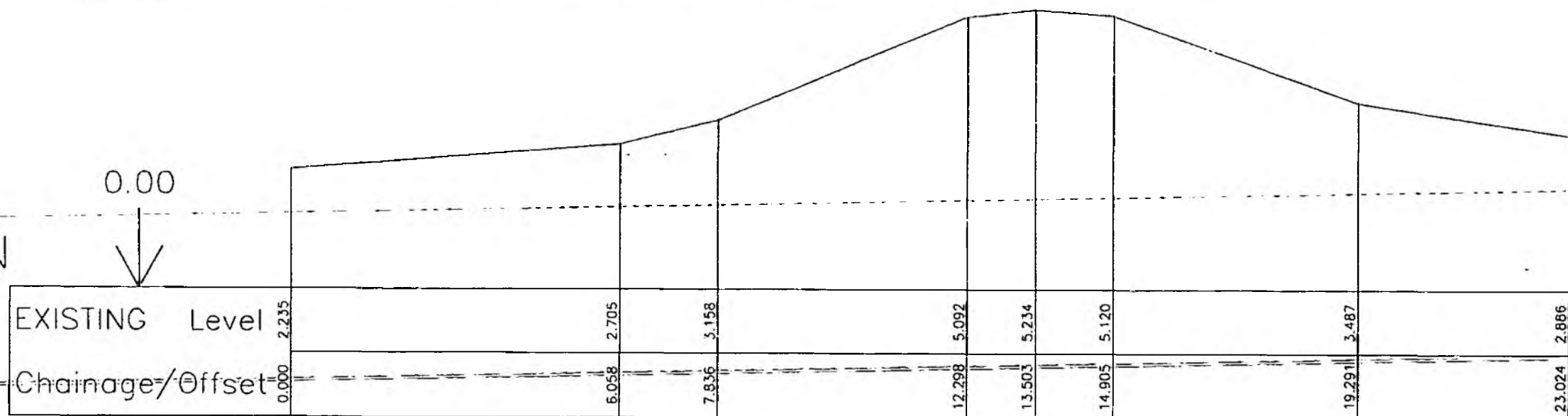
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Hyman & Platt

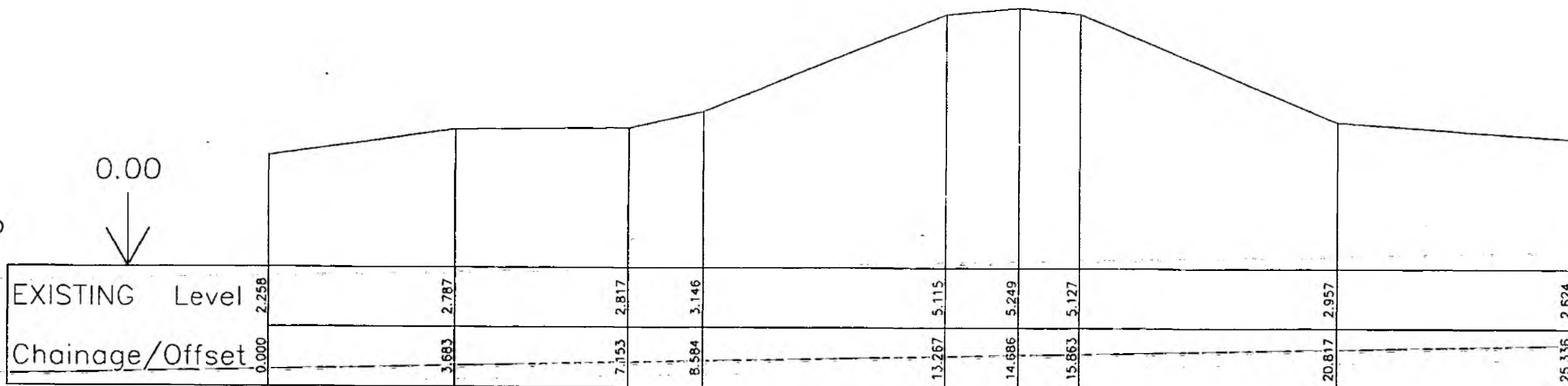
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6308N

0.00
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Horiz. = 1:100 Vert. = 1:100

6308P

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing

Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

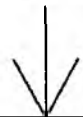
CROSS-SECTIONS

Pyman & Rotherwell

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Charrington House, The Causeway
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6309A

0.00



EXISTING Level	4.520		4.512		5.360		5.421		5.252		3.226		2.642
Chainage/Offset	0.000		6.658		9.349		10.542		11.984		17.537		25.989

Horiz. = 1:100 Vert. = 1:100

6309B

0.00



EXISTING Level	1.574		1.511		1.815		4.442		4.609		4.593		1.400
Chainage/Offset	0.000		6.579		8.405		14.635		15.999		17.461		25.061
													25.539

Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

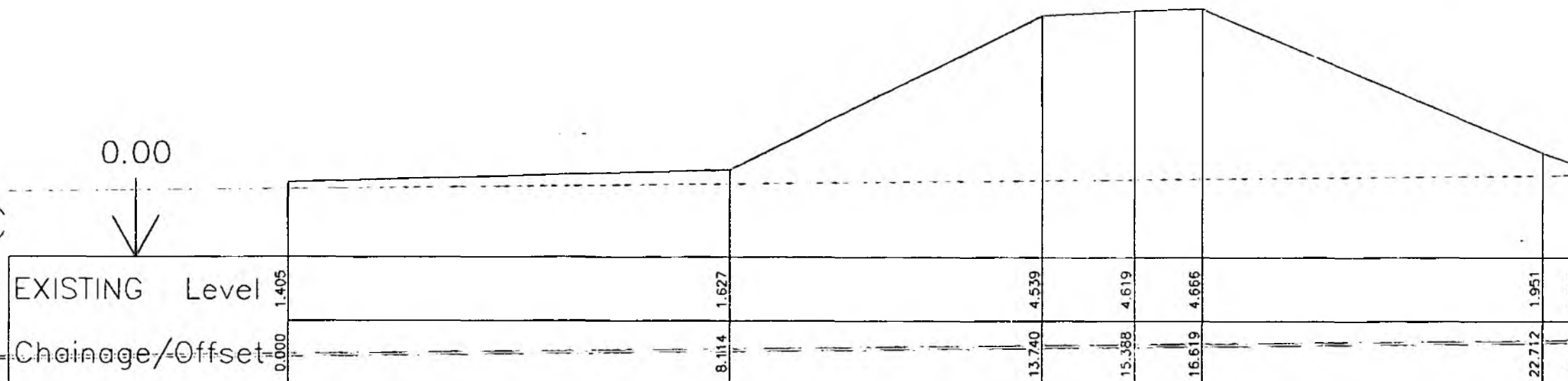
CROSS-SECTIONS

Figgs & Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6309C

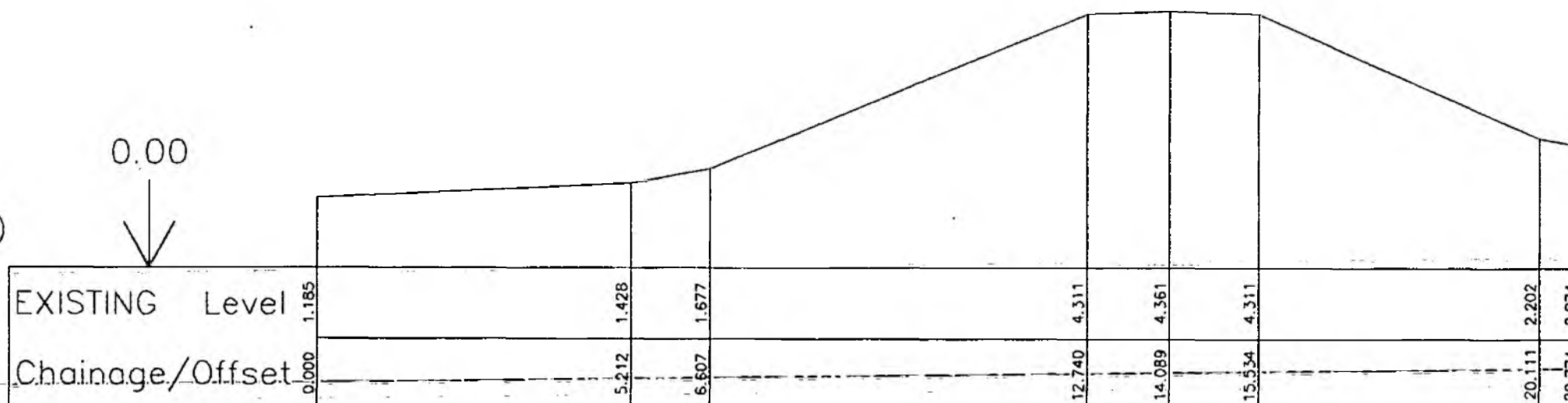
0.00



Horiz. = 1:100 Vert. = 1:100

6309D

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

James G. Rothwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6309E

0.00
↓

EXISTING Level	1.054	1.215	4.583	4.615	4.570	2.785	2.606
Chainage/Offset	0.000	6.386	14.960	16.246	17.490	23.365	27.671

Horiz. = 1:100 Vert. = 1:100

6309F

0.00
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EXISTING Level	1.244	1.531	4.314	4.432	4.373	2.615	2.333
Chainage/Offset	0.000	5.181	12.564	13.907	15.783	20.691	21.480

Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

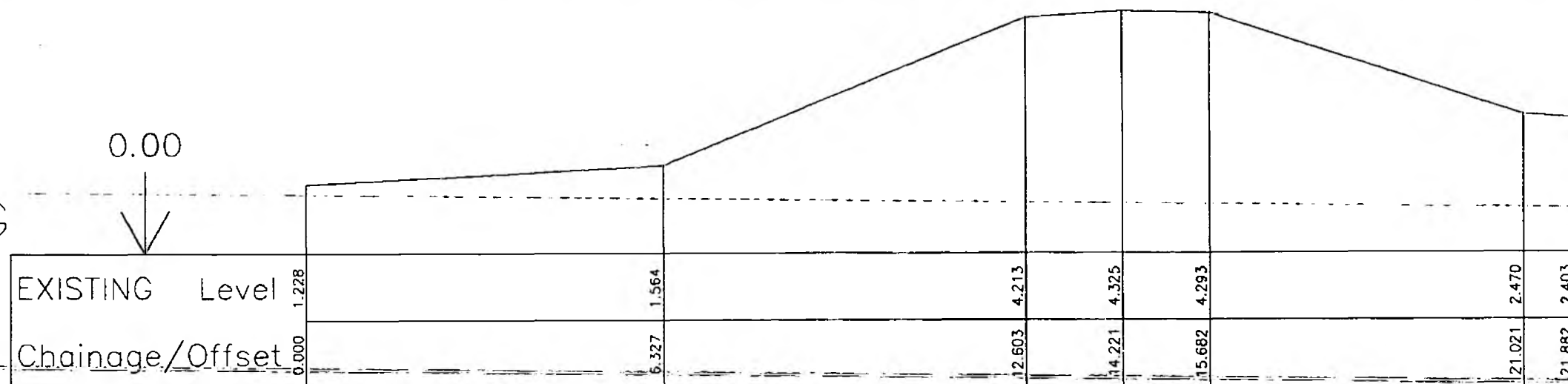
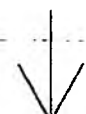
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6309G

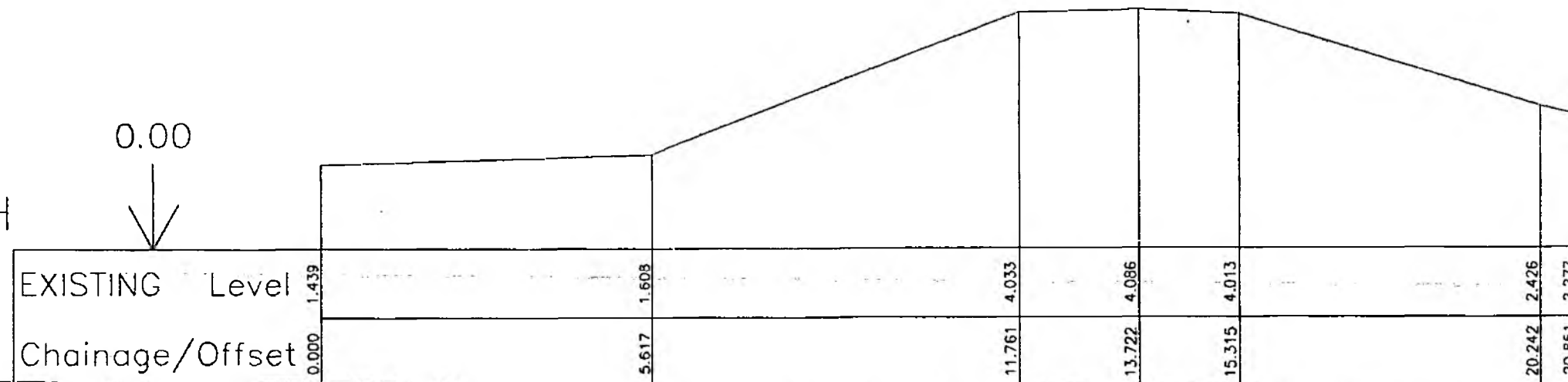
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Horiz. = 1:100 Vert. = 1:100

6309H

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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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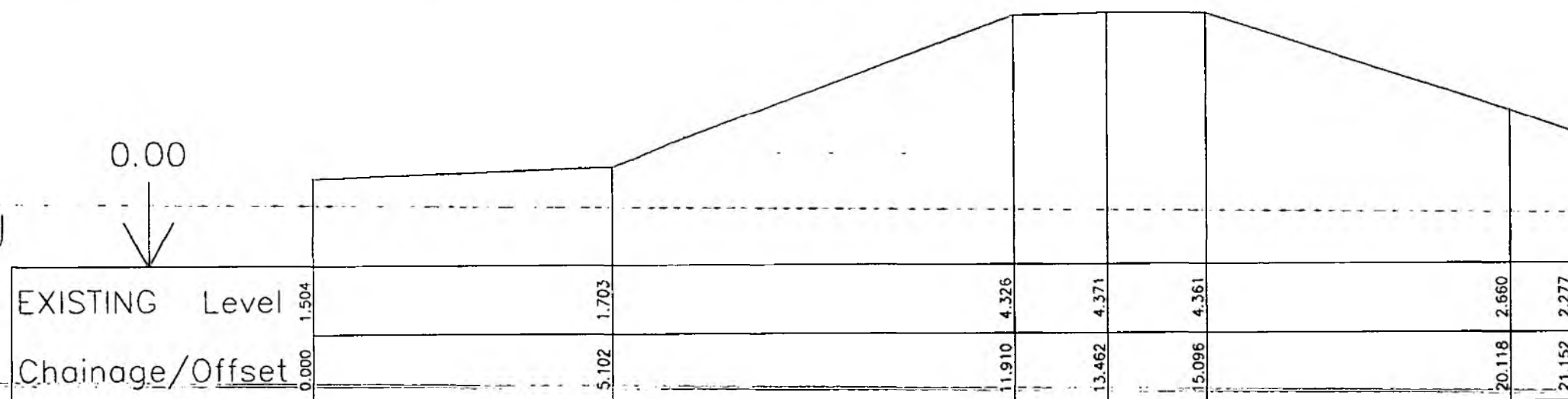
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Signs & Symbols

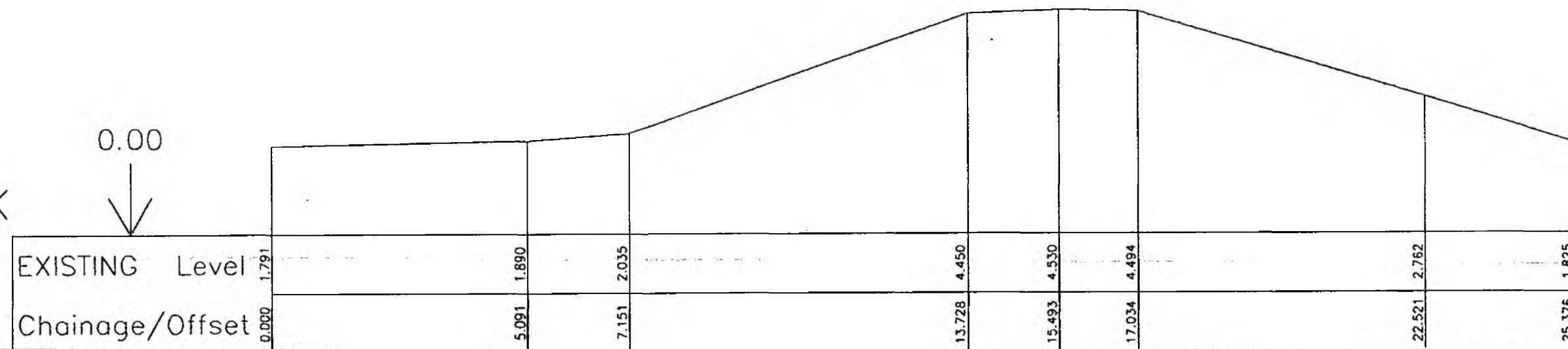
CONSULTING ENGINEERS
Chorlton House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6309J

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Horiz. = 1:100 Vert. = 1:100

6309K

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Horiz. = 1:100 Vert. = 1:100



NRA

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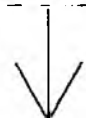
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6309L

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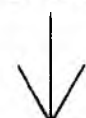


EXISTING Level	1.258	1.299	4.188	4.338	4.261	2.669	2.469
Chainage/Offset	0.000	8.014	15.996	17.657	19.678	25.107	28.175

Horiz. = 1:100 Vert. = 1:100

6309M

0.00



EXISTING Level	1.140	1.341	4.112	4.273	2.068	1.399
Chainage/Offset	0.000	7.599	15.964	17.343	25.319	27.566

Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

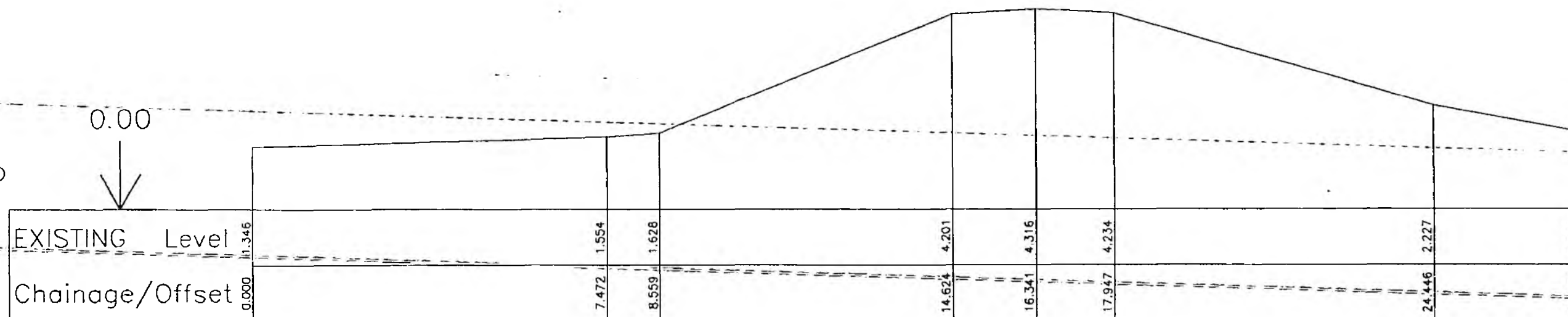
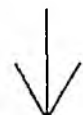
CROSS-SECTIONS

Signs & Placemats

CONSULTING ENGINEERS
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6309P

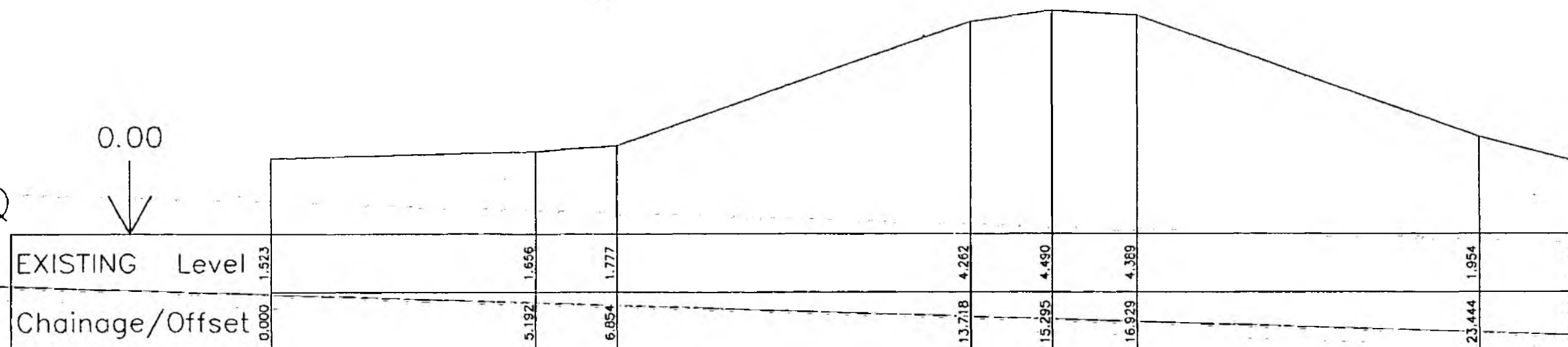
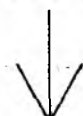
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Horiz. = 1:100 Vert. = 1:100

6309Q

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Figgs & Rothwell

CONSULTING ENGINEERS
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Bishop's Cleeve, Shropshire, Sh. CV23 2ER

6309R

0.00
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EXISTING Level	1.752	2.019	2.054	4.262	4.458	3.908	3.171	2.789	2.742
Chainage/Offset	0.000	4.514	7.695	13.815	15.682	18.576	20.697	23.374	29.175

Horiz. = 1:100 Vert. = 1:100

6309S

0.00
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EXISTING Level	1.861	1.965	2.132	4.166	4.509	4.248	3.187	2.790	2.711
Chainage/Offset	0.000	6.373	7.399	13.725	15.933	17.839	21.192	23.603	29.662

Horiz. = 1:100 Vert. = 1:100



NRA

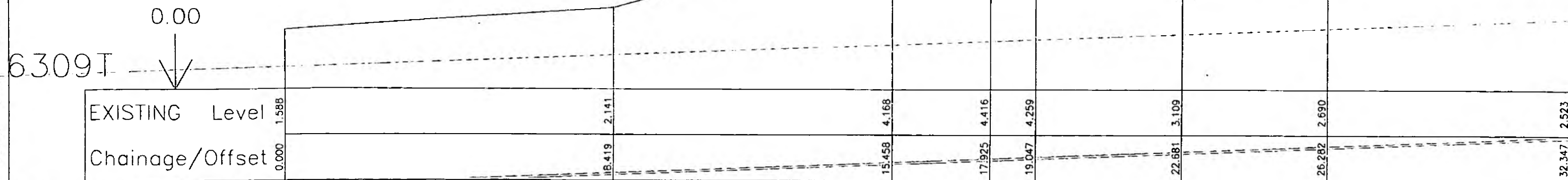
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

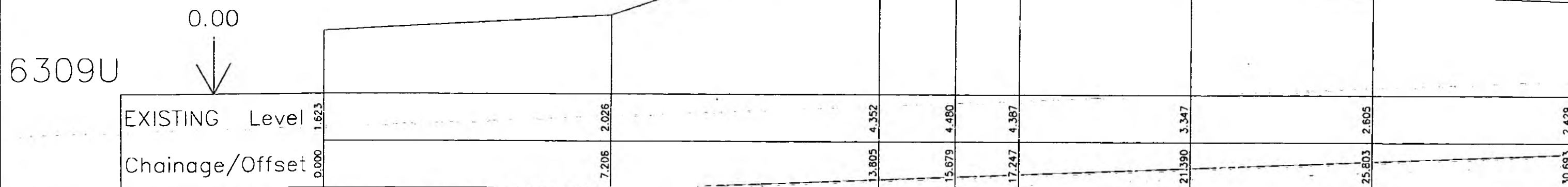
CROSS-SECTIONS

Fryer & Rothwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER



Horiz. = 1:100 Vert. = 1:100



Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Figgs & Rotherwell

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Bishop's Cleeve, Shropshire CM23 2LR

6309V

0.00

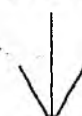


EXISTING Level	2.218		2.394	2.899		5.565	5.547	5.529	
Chainage/Offset	0.000		6.066	8.198		16.144	18.381	20.569	

Horiz. = 1:200 Vert. = 1:200

6309W

0.00



EXISTING Level	1.895		2.541		5.524	5.556	5.564	
Chainage/Offset	0.000		7.268		18.345	19.982	21.739	

Horiz. = 1:200 Vert. = 1:200

30.774

2.957

37.683

2.482

32.432

3.249

41.143

2.446



NRA

National Rivers Authority
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Chatsworth Road
Worthing
Sussex - BN11 1LD

NATIONAL SEA DEFENCE SURVEY PHASE IVA

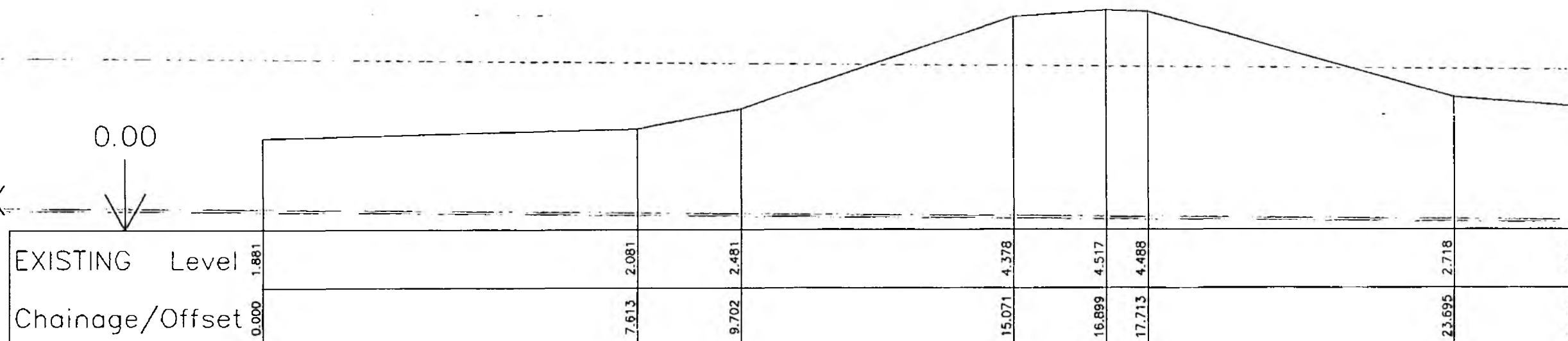
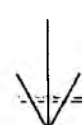
CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2ER

6309X

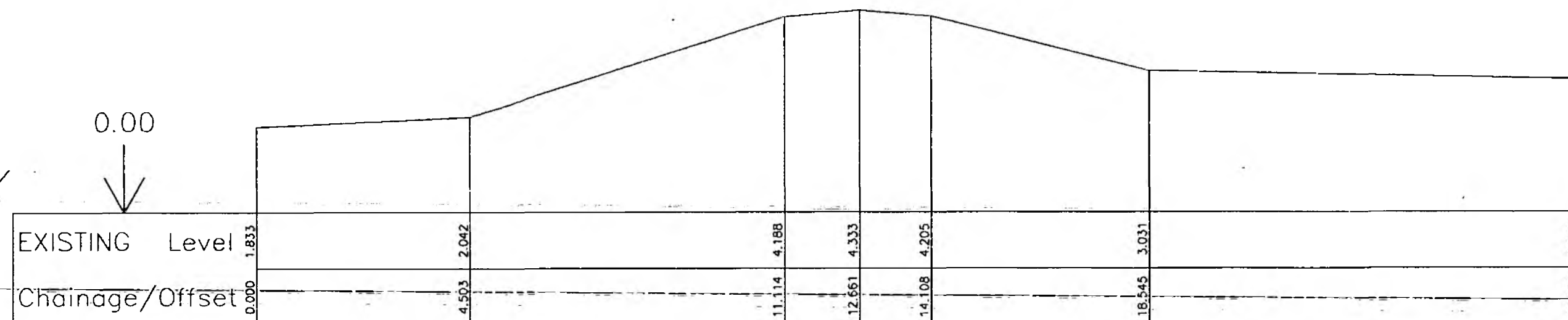
0.00



Horiz. = 1:100 Vert. = 1:100

6309Y

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

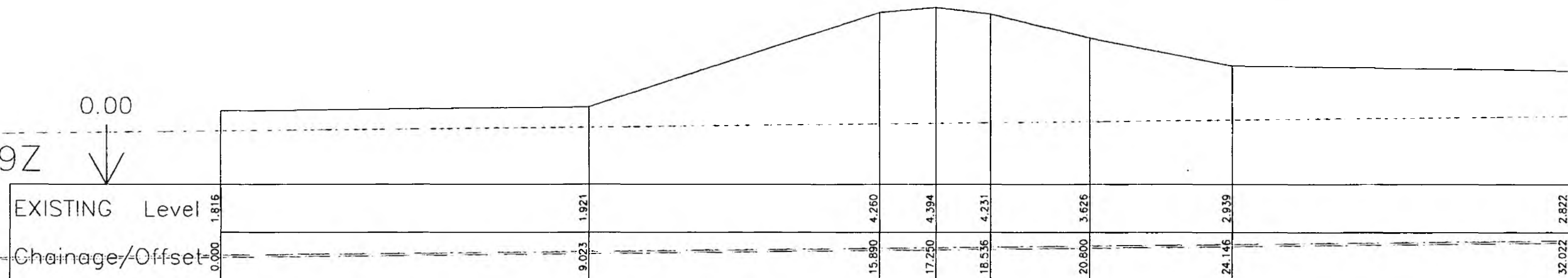
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Sign of Plotters

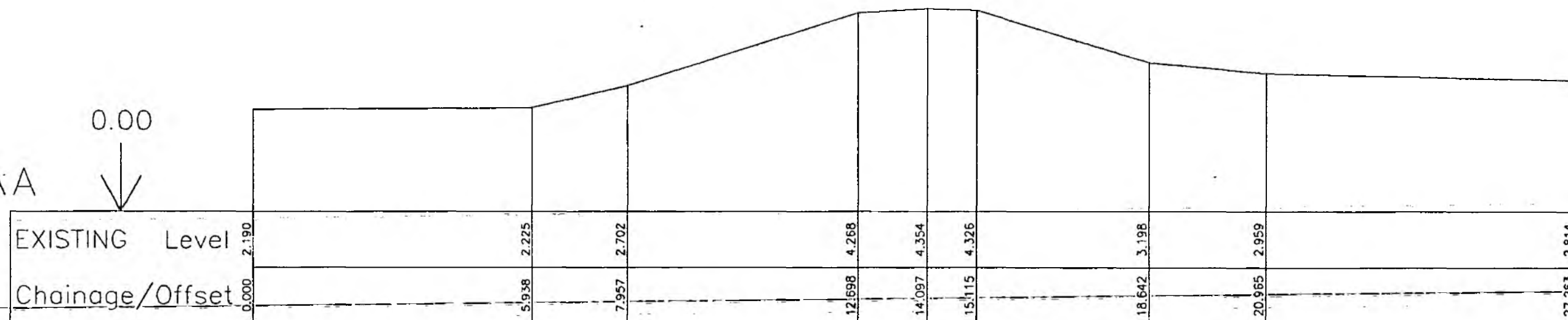
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6309Z
0.00
↓



Horiz. = 1:100 Vert. = 1:100

6309AA
0.00
↓



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

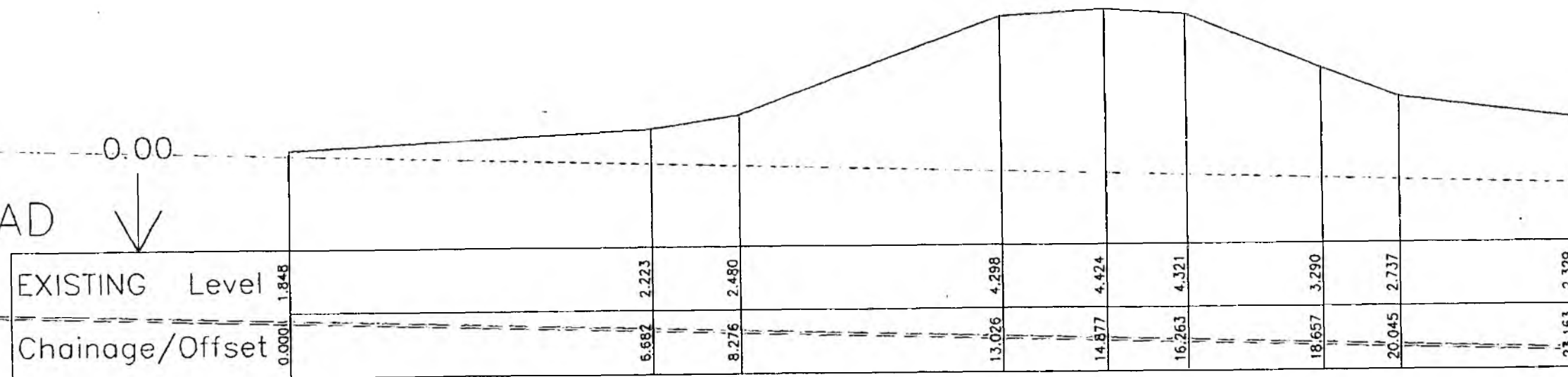
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Hayman & Rothwell

CONSULTING ENGINEERS
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Bishop's Cleeve, Shropshire, Sh. CM23 2ER

6309AD
0.00
↓



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

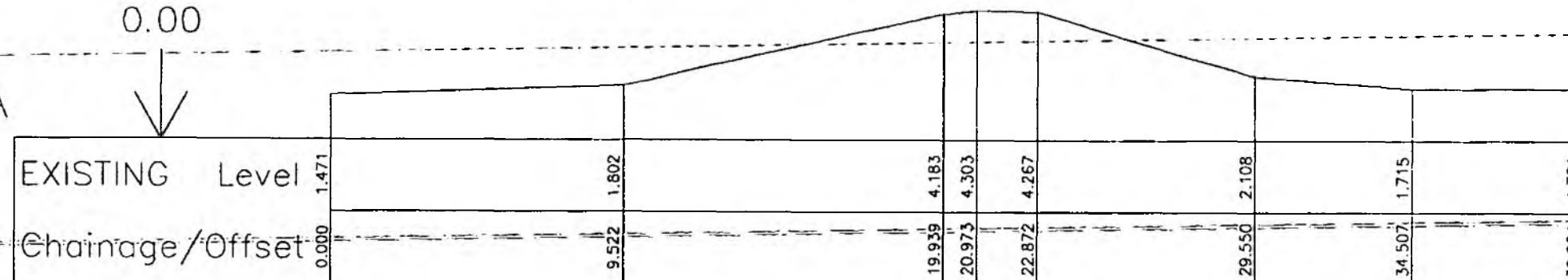
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Fryer & Rotherwell

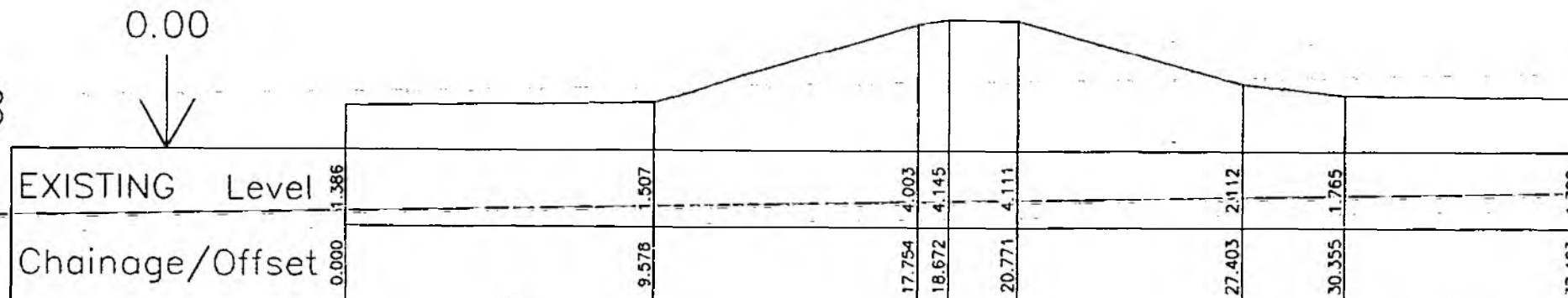
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6310A

0.00
↓

Horiz. = 1:200 Vert. = 1:200

6310B

0.00
↓

Horiz. = 1:200 Vert. = 1:200



NRA

National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing

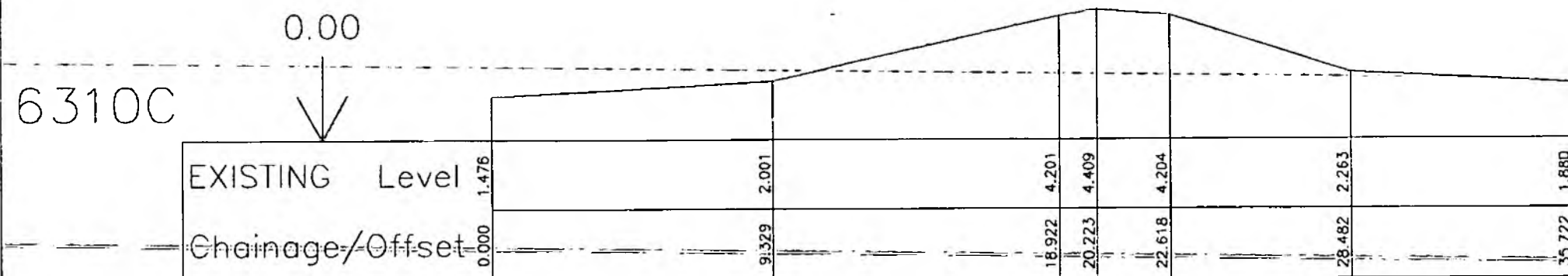
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

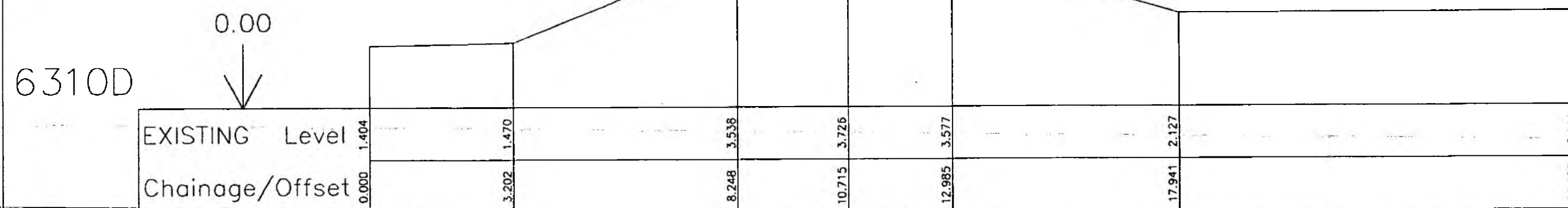
CROSS-SECTIONS

Hyman & Platt

CONSULTING ENGINEERS
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Bishop's Cleeve, Shropshire, CV23 2ER



Horiz. = 1:200 Vert. = 1:200



Horiz. = 1:100 Vert. = 1:100



NRA

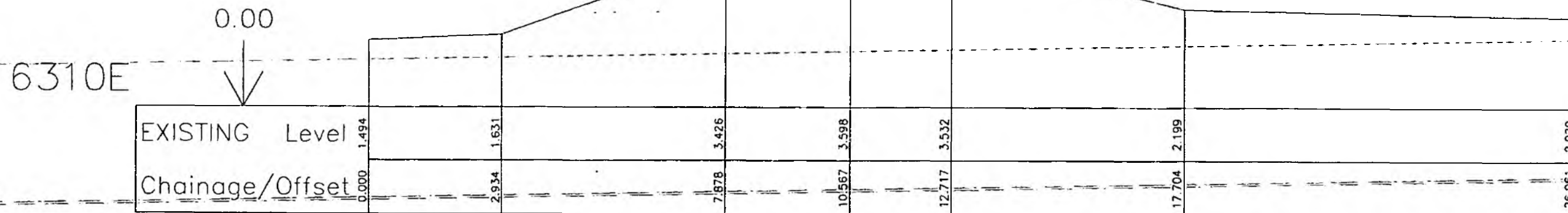
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

**NATIONAL SEA DEFENCE
SURVEY PHASE IVA**

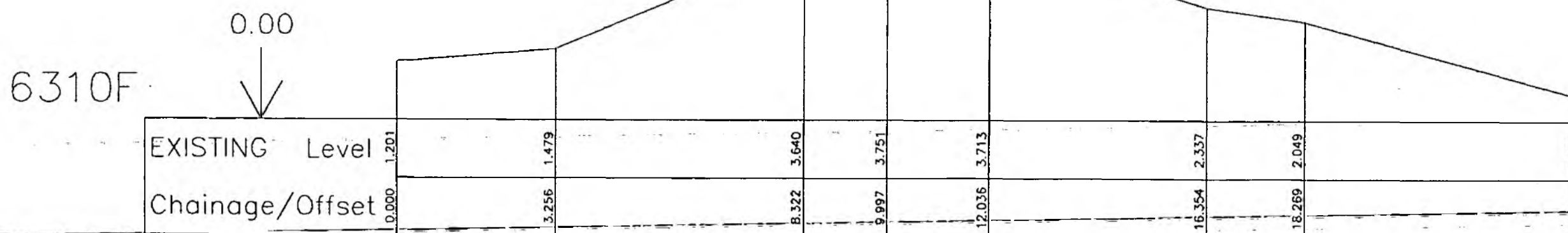
CROSS-SECTIONS

Fryer & Rotherwell

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Bishop's Stortford, Herts CM23 2ER



Horiz. = 1:100 Vert. = 1:100



Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

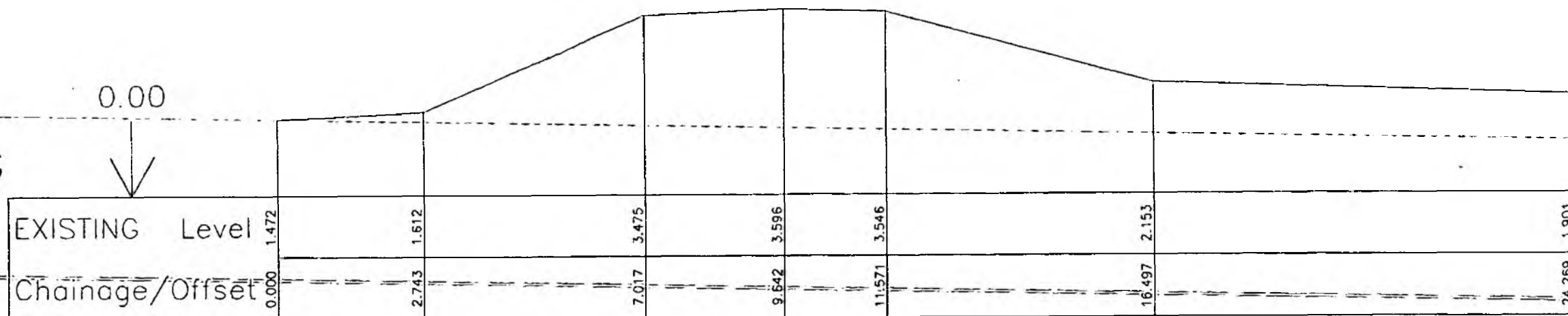
CROSS-SECTIONS

Fryer & Rotherwell

CONSULTING ENGINEERS
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Bishop's Cleeve, Shropshire CM23 2ER

6310G

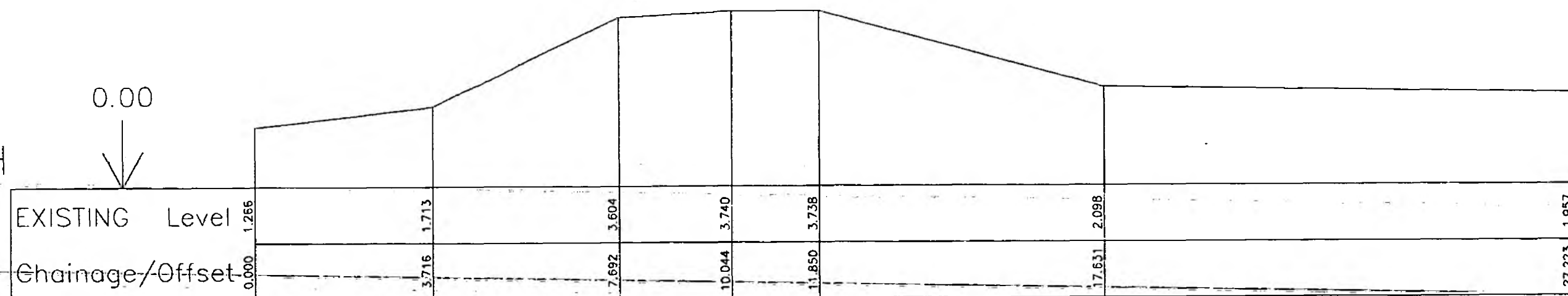
0.00



Horiz. = 1:100 Vert. = 1:100

6310H

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

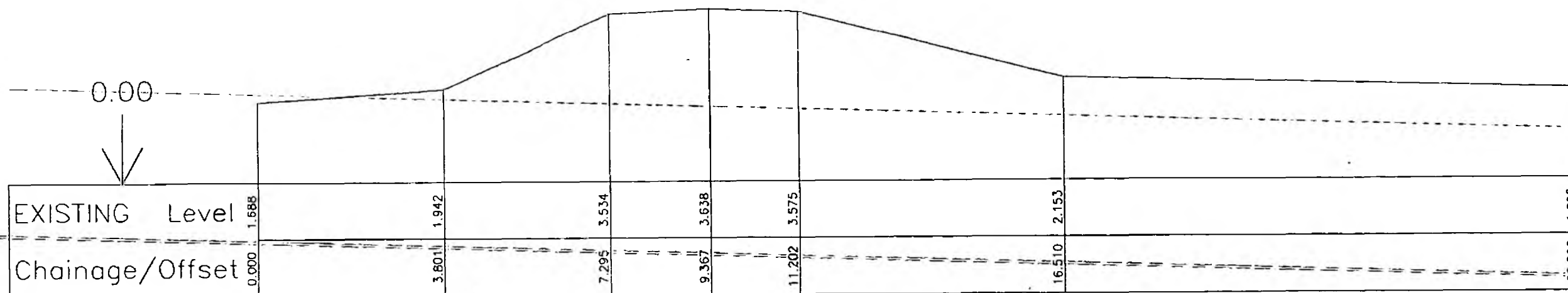
CROSS-SECTIONS

Pyman & Rotherwell

CONSULTING ENGINEERS
Chorlington House, The Causeway
Bishop's Cleeve, Shropshire, Sh. CM23 2ER

6310I

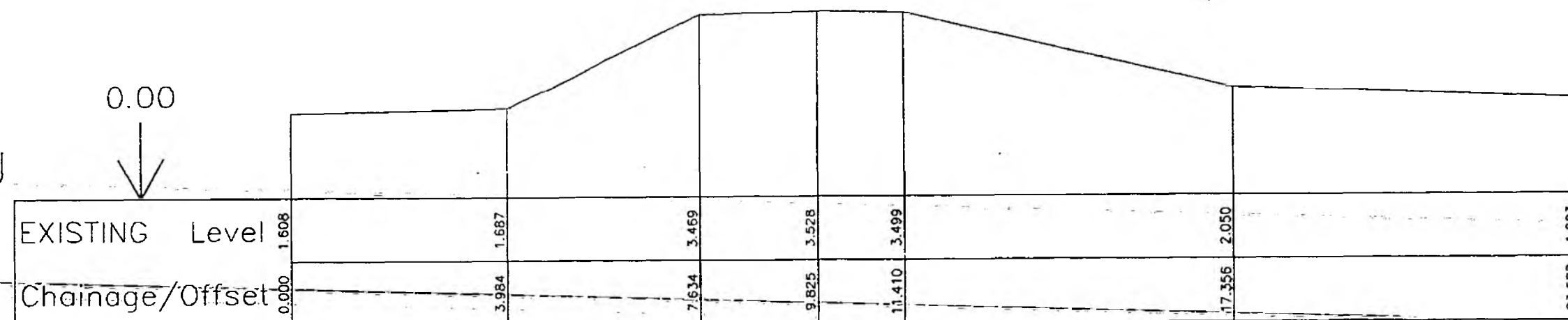
0.00



Horiz. = 1:100 Vert. = 1:100

6310J

0.00



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

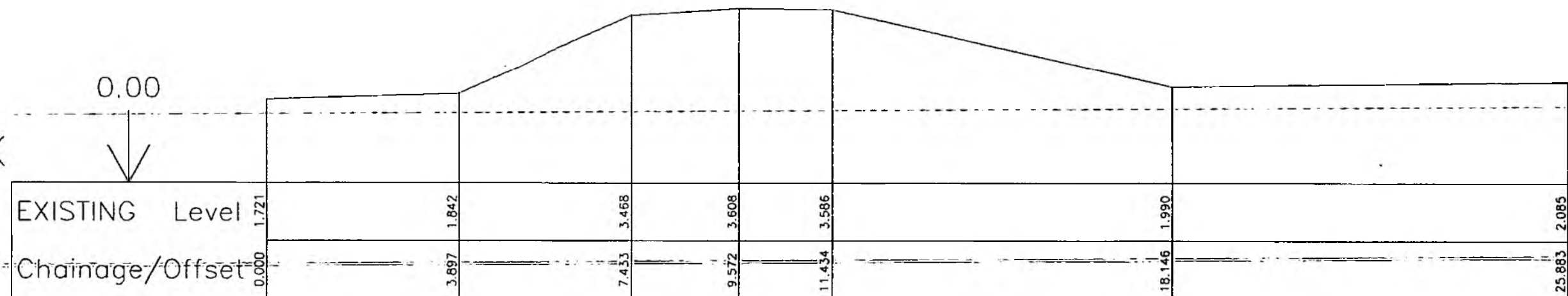
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Hyman & Rothwell

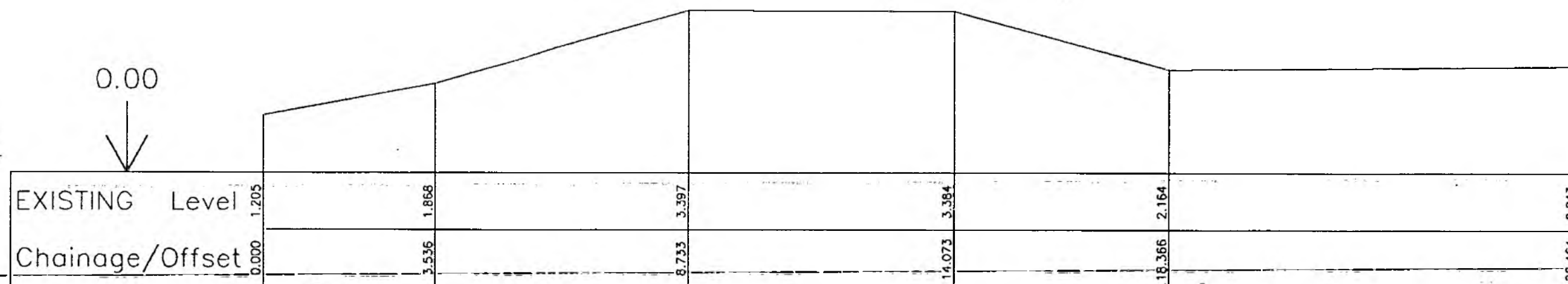
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6310K

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6310L

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Figures & Plots

CONSULTING ENGINEERS
Chorlington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6311A

0.00
↓

EXISTING Level	1.560	1.612	3.955	4.133	1.560	1.117
Chainage/Offset	0.000	3.610	7.980	9.602	17.474	23.419

Horiz. = 1:100 Vert. = 1:100

6311B

0.00
↓

EXISTING Level	1.289	1.689	3.844	4.050	3.882	1.765	1.600
Chainage/Offset	0.000	4.539	8.628	10.222	10.865	18.119	24.620

Horiz. = 1:100 Vert. = 1:100



NRA

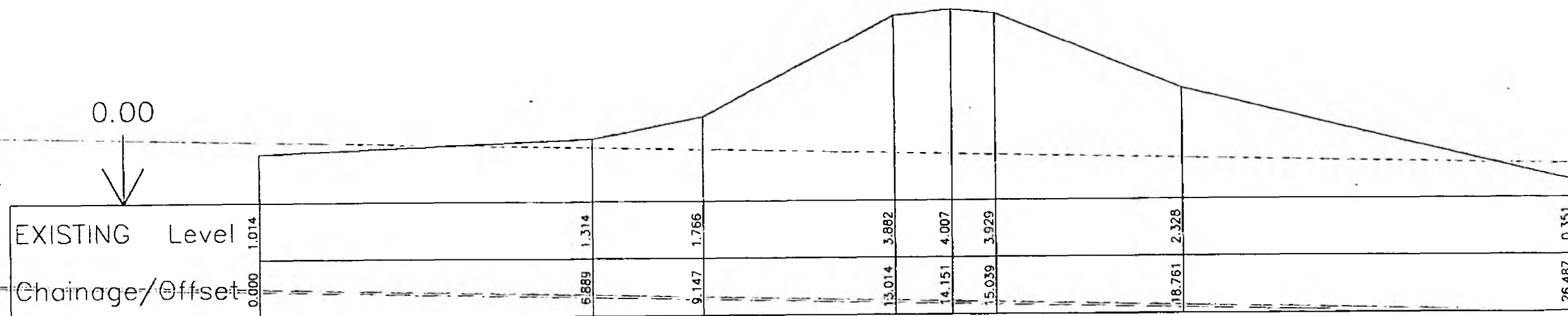
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

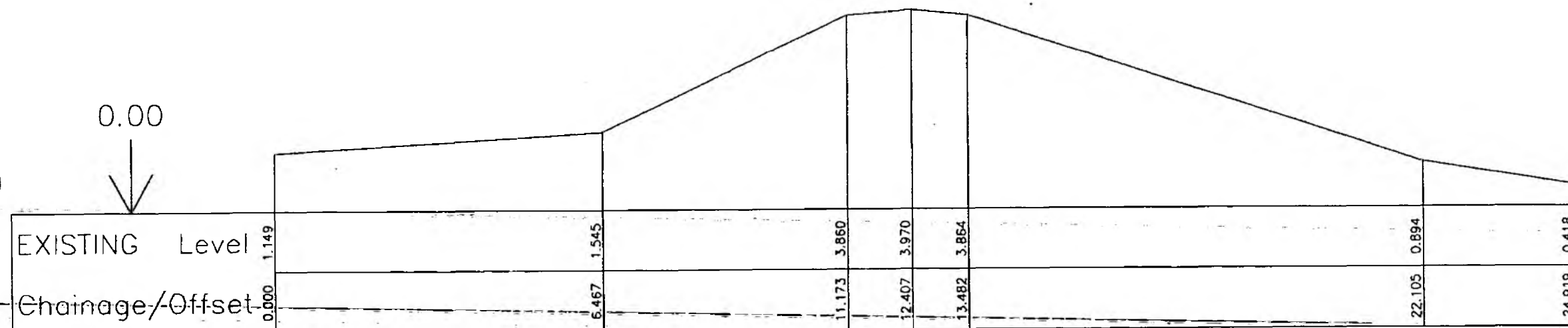
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6311C

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6311D

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

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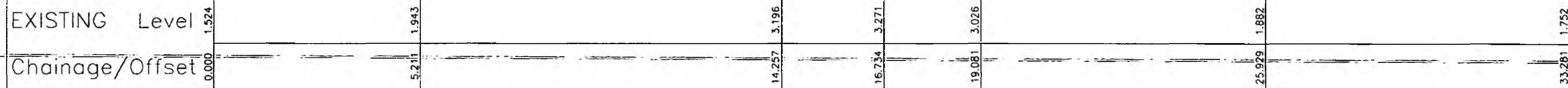
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Figgs & Riddell

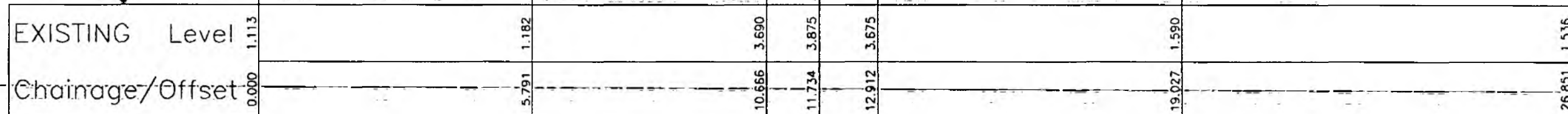
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

0.00
6311E ↓



Horiz. = 1:100 Vert. = 1:100

0.00
6311F ↓



Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

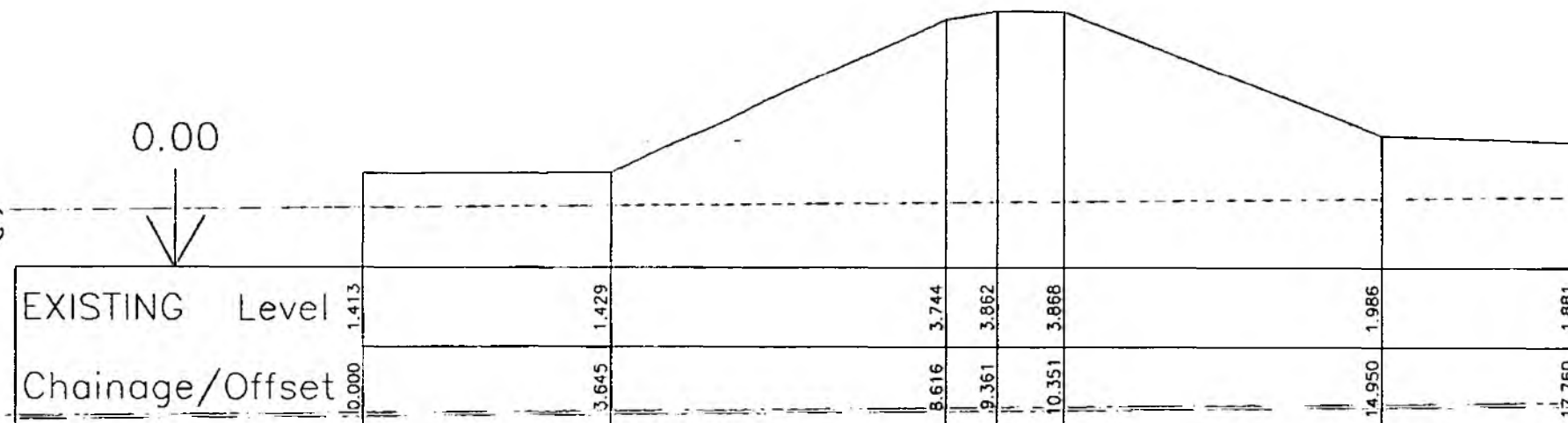
CROSS-SECTIONS

John G. Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CV23 2ER

6311G

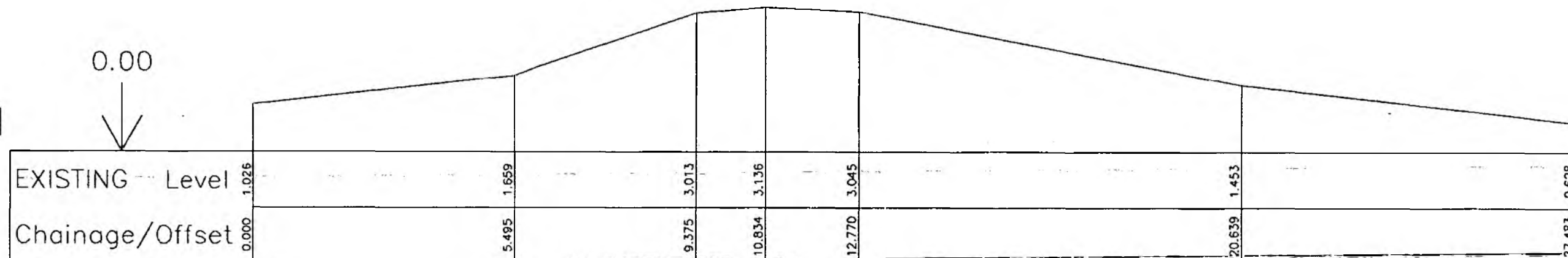
0.00
↓



Horiz. = 1:100 Vert. = 1:100

6311H

0.00
↓



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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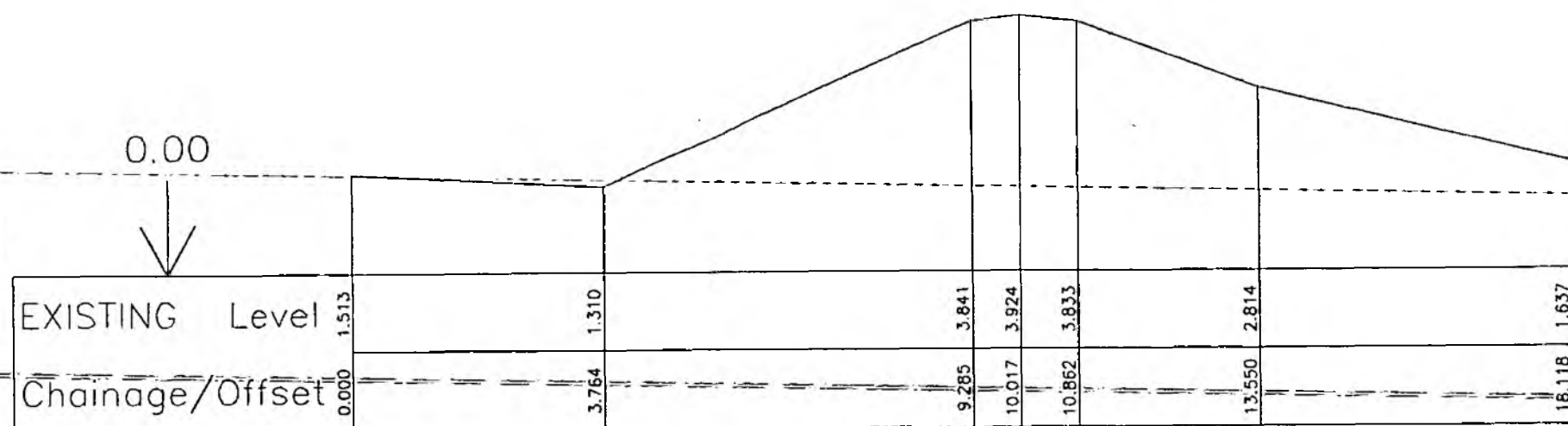
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

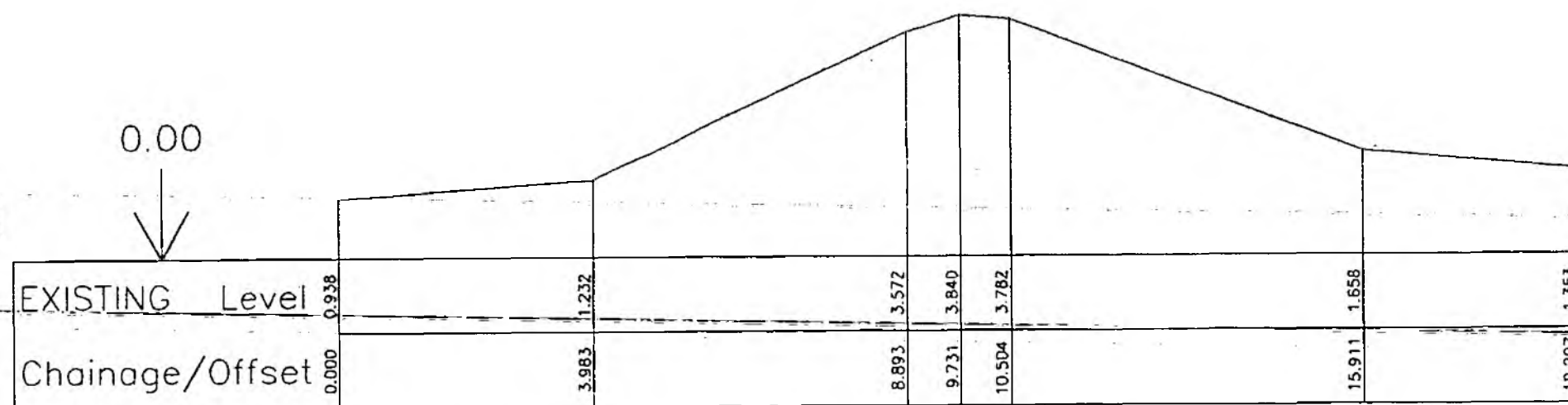
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6311I

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6311J

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherham

CONSULTING ENGINEERS
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6311K

0.00
↓

EXISTING Level	1.179		1.482		3.589	3.787	3.692		0.693	-0.123
Chainage/Offset	0.000	3.257	8.984	9.977	11.036			23.399	28.035	

Horiz. = 1:100 Vert. = 1:100

6311L

0.00
↓

EXISTING Level	0.861		1.239		3.629	3.699	3.802		2.447		1.744	1.036
Chainage/Offset	0.000	3.782	8.543	9.345	10.362			13.695	21.633	24.091		

Horiz. = 1:100 Vert. = 1:100



NRA

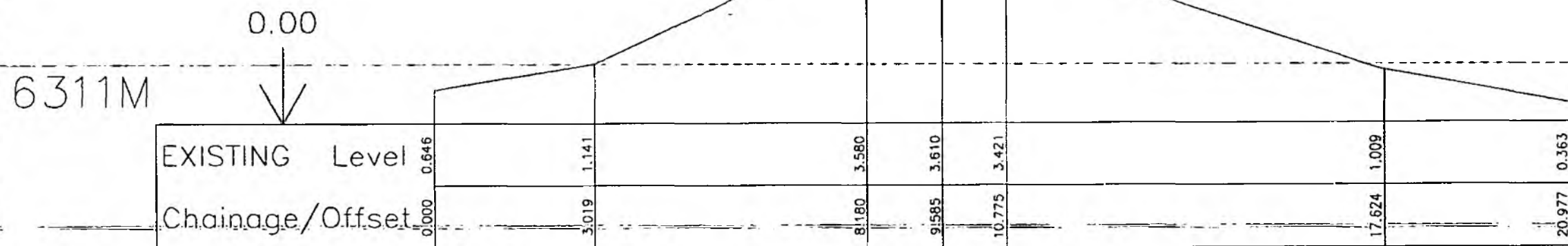
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

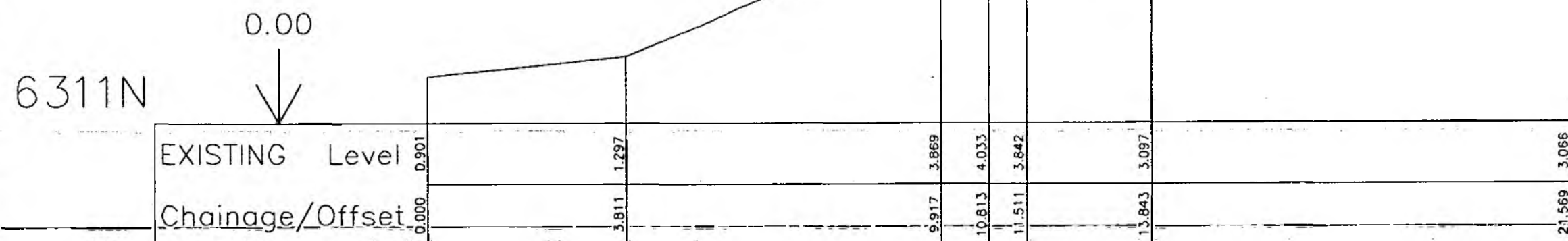
CROSS-SECTIONS

Fryer & Platt

CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CM23 2ER



Horiz. = 1:100 Vert. = 1:100



Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
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Worthing
Sussex BN11 1LD

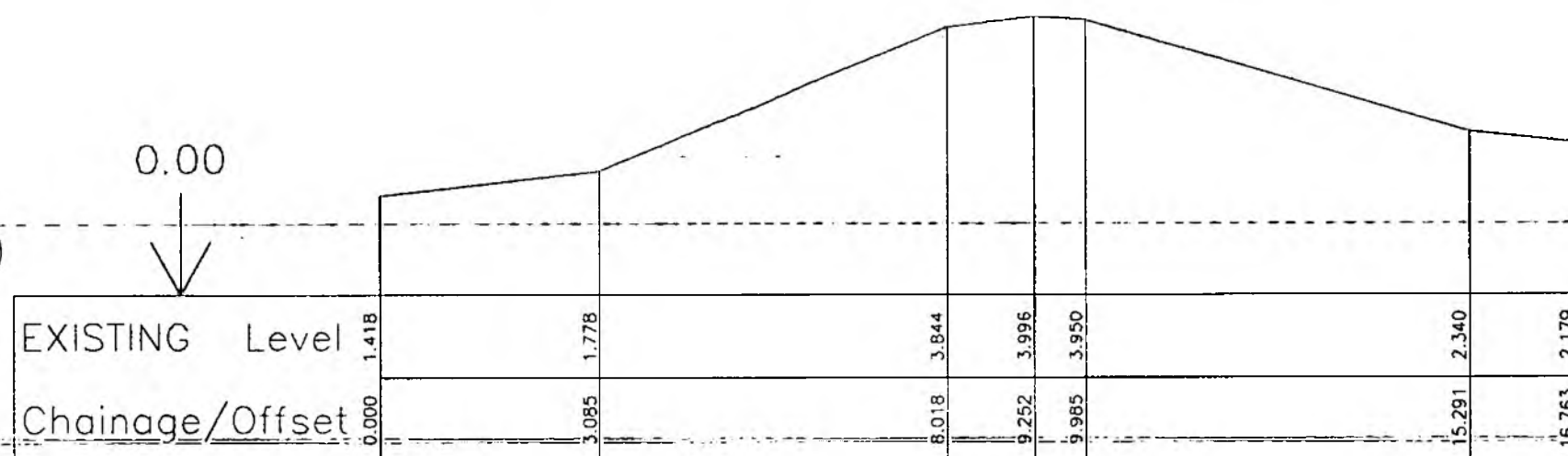
**NATIONAL SEA DEFENCE
SURVEY PHASE IVA**

CROSS-SECTIONS

Hyman & Platt

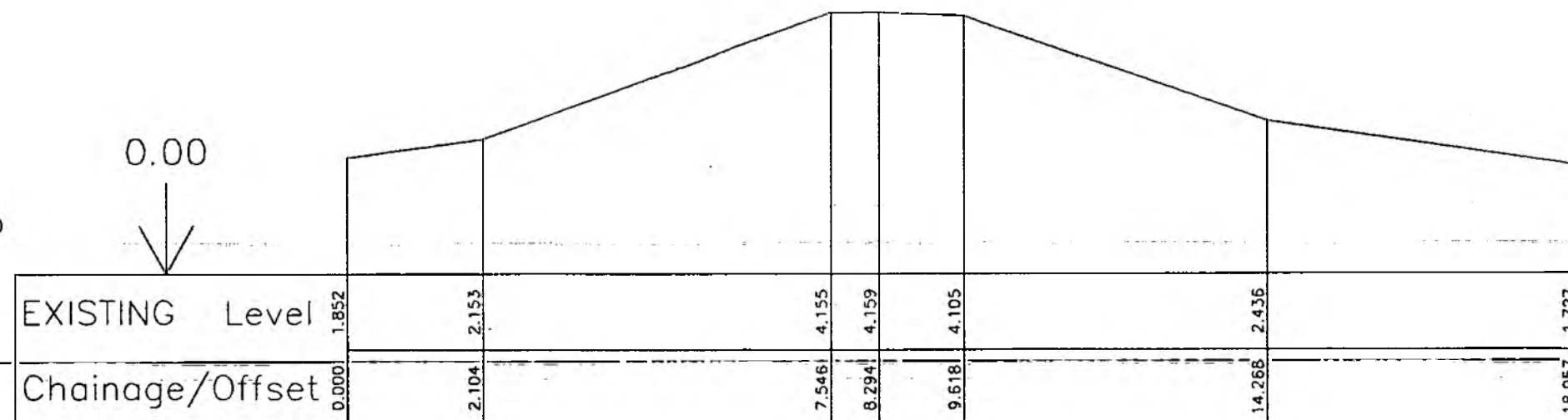
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Cleeve, Shropshire CV23 2ER

63110

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6311P

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

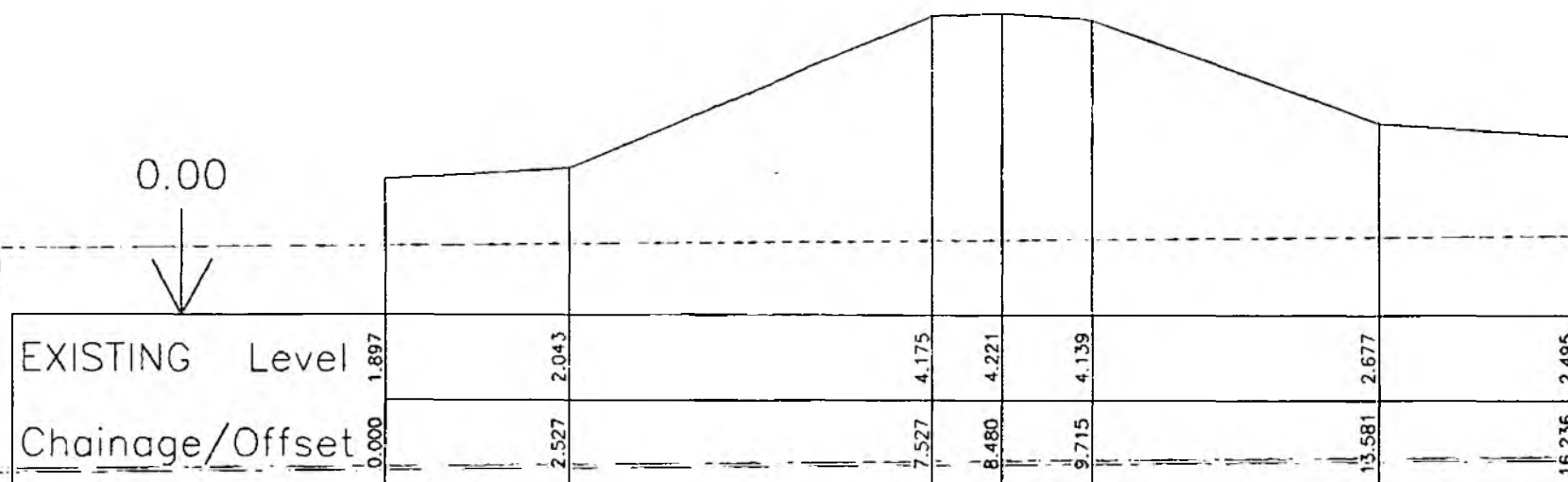
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

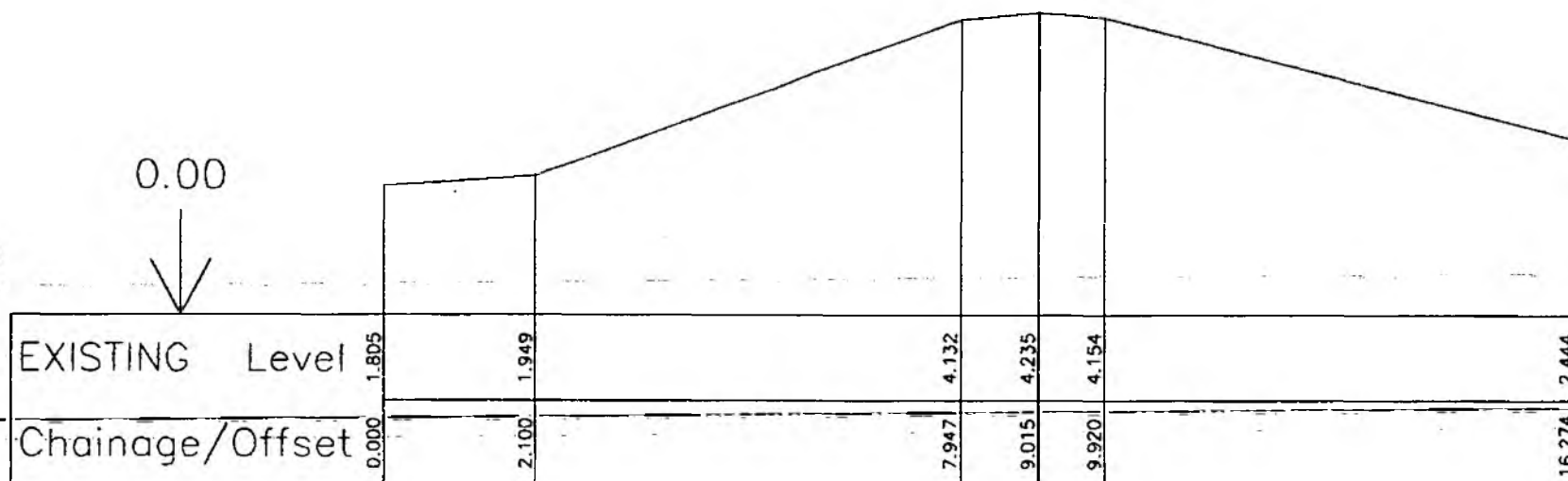
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts. CM23 2ER

6311Q

0.00
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Horiz. = 1:100 Vert. = 1:100

6311R

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

National Rivers Authority
Southern Region
Guildbourne House
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Worthing
Sussex BN11 1LD

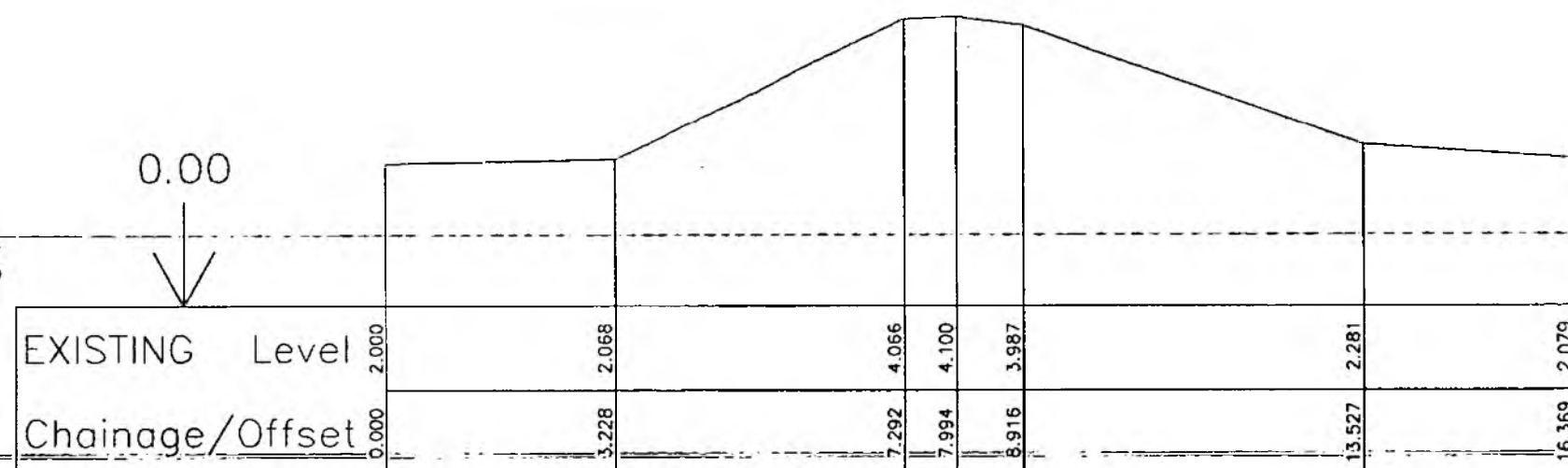
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

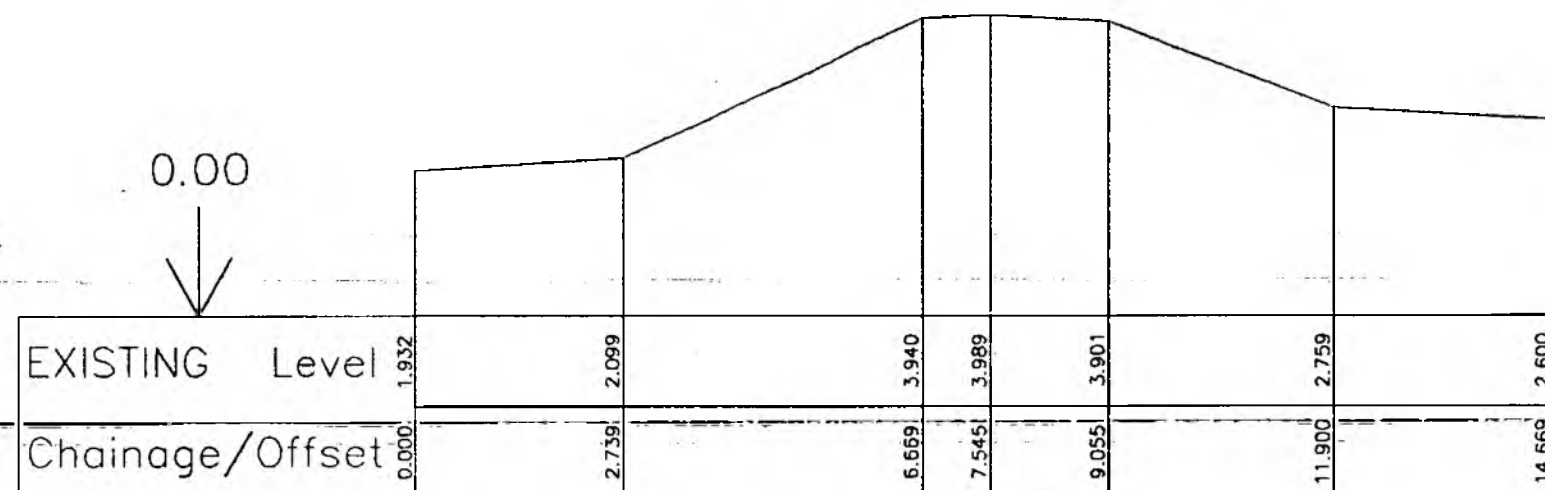
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6311S

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6311T

0.00
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Horiz. = 1:100 Vert. = 1:100



NRA

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Sussex BN11 1LD

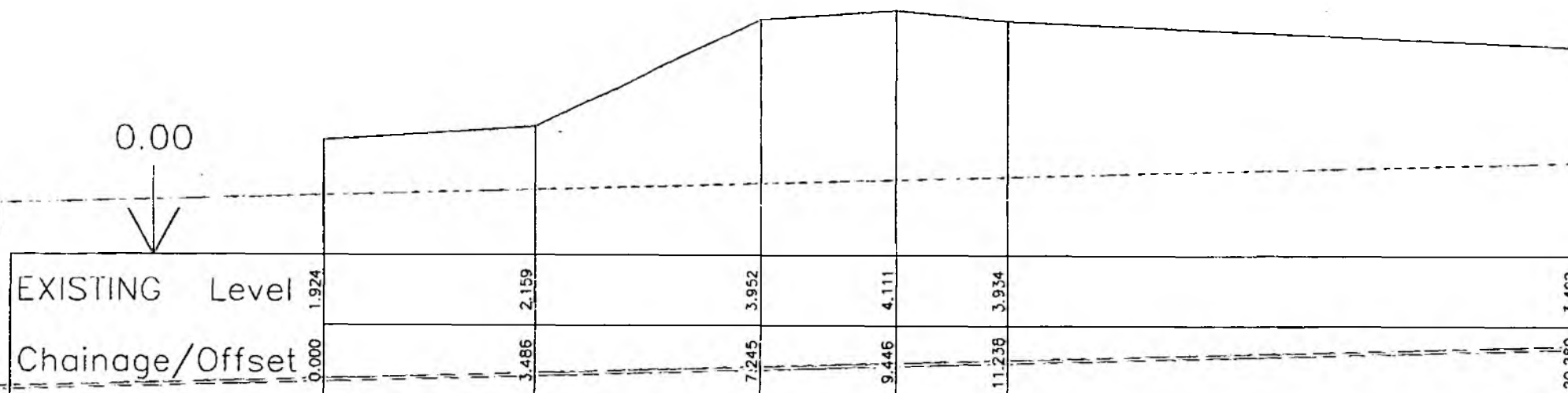
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Pyman & Rotherwell

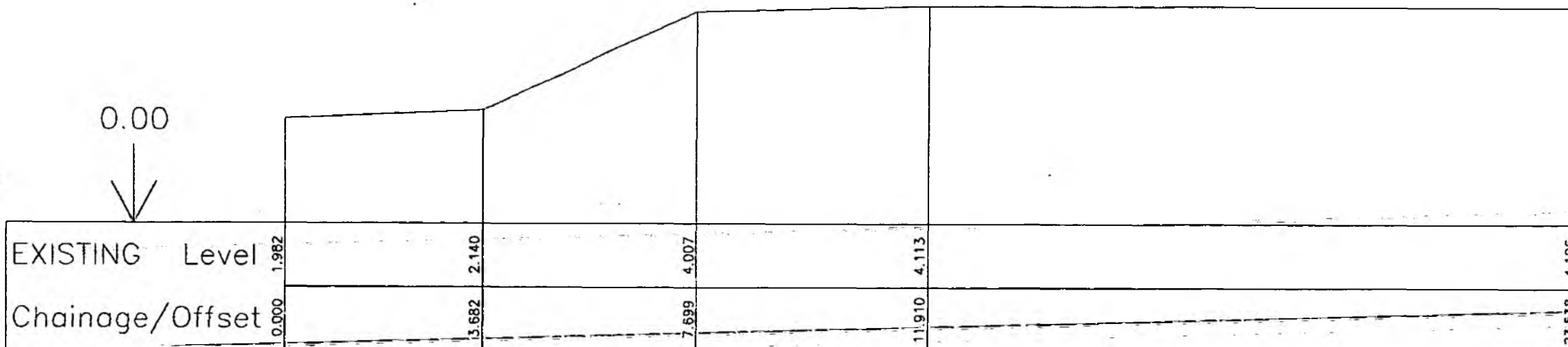
CONSULTING ENGINEERS
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Bishop's Stortford, Herts CM23 2ER

6311U

0.00
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Horiz. = 1:100 Vert. = 1:100

6311V

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

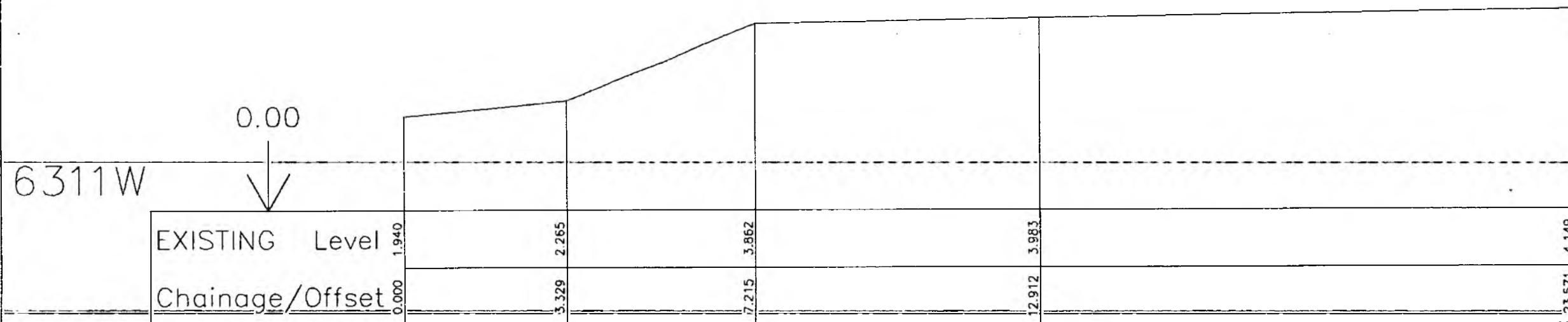
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

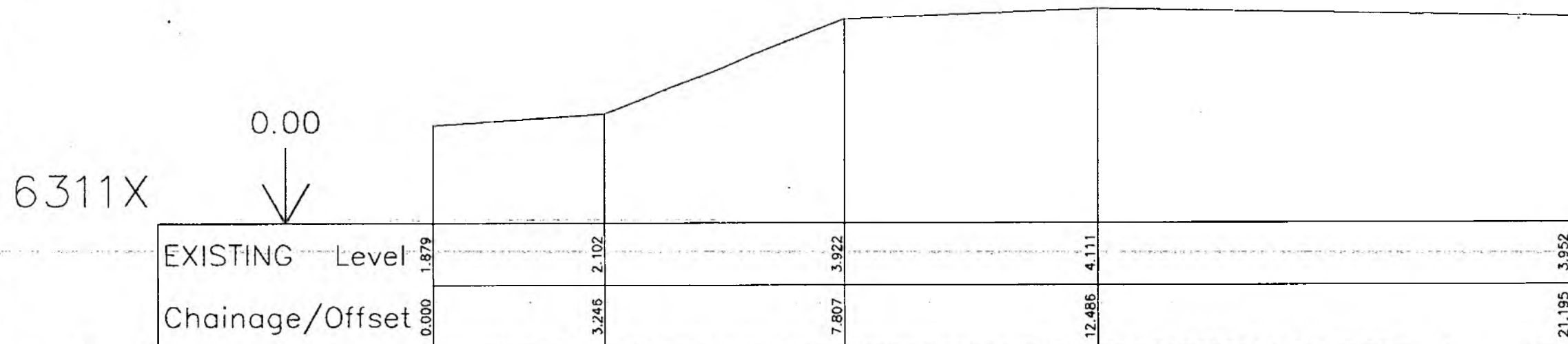
CROSS-SECTIONS

Sign of Plotland

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Bishop's Cleeve, Shropshire CM23 2ER



Horiz. = 1:100 Vert. = 1:100



Horiz. = 1:100 Vert. = 1:100



NRA

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Worthing
Sussex BN11 1LD

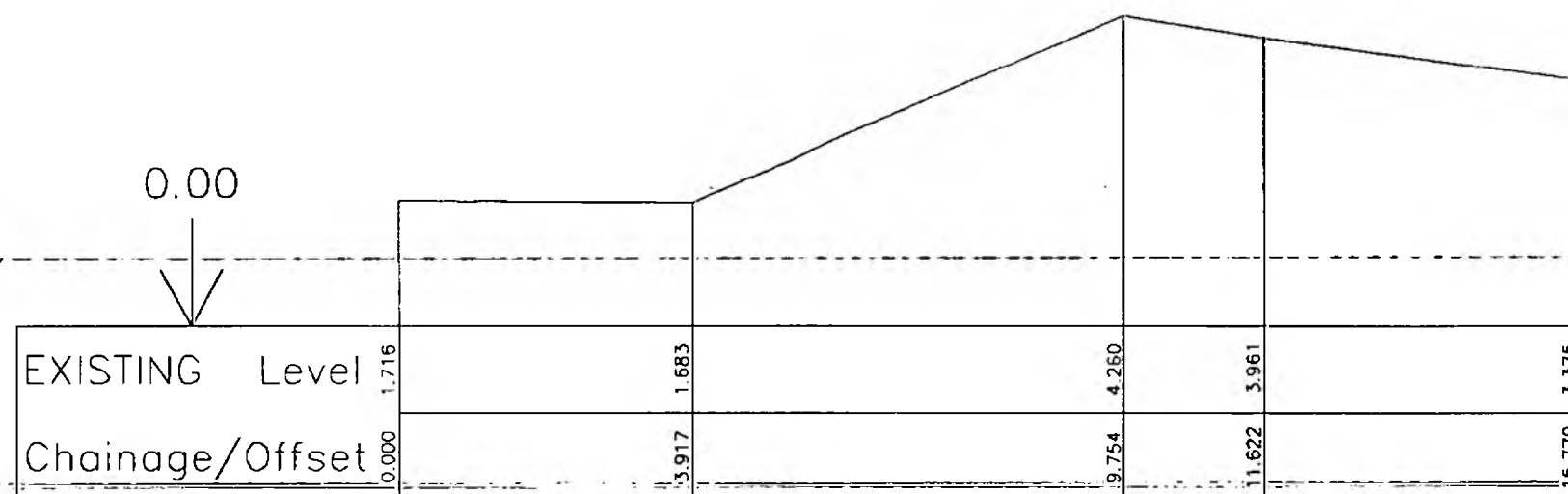
NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Fynn & Platt

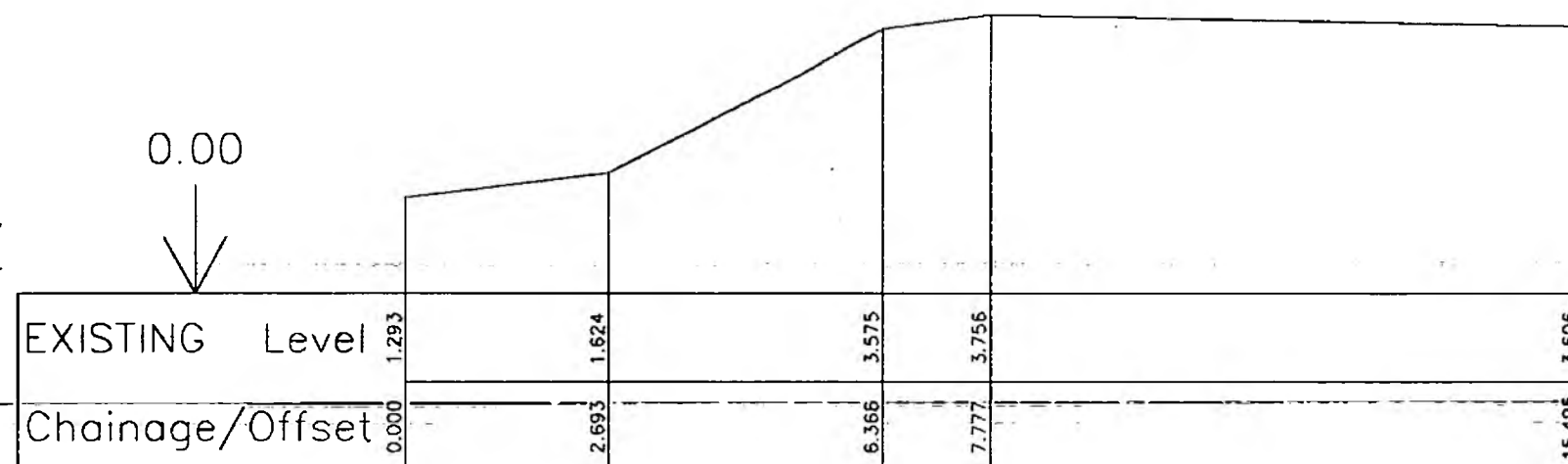
CONSULTING ENGINEERS
Chorrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6311Y

0.00
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Horiz. = 1:100 Vert. = 1:100

6311Z

0.00
↓

Horiz. = 1:100 Vert. = 1:100

**NRA**

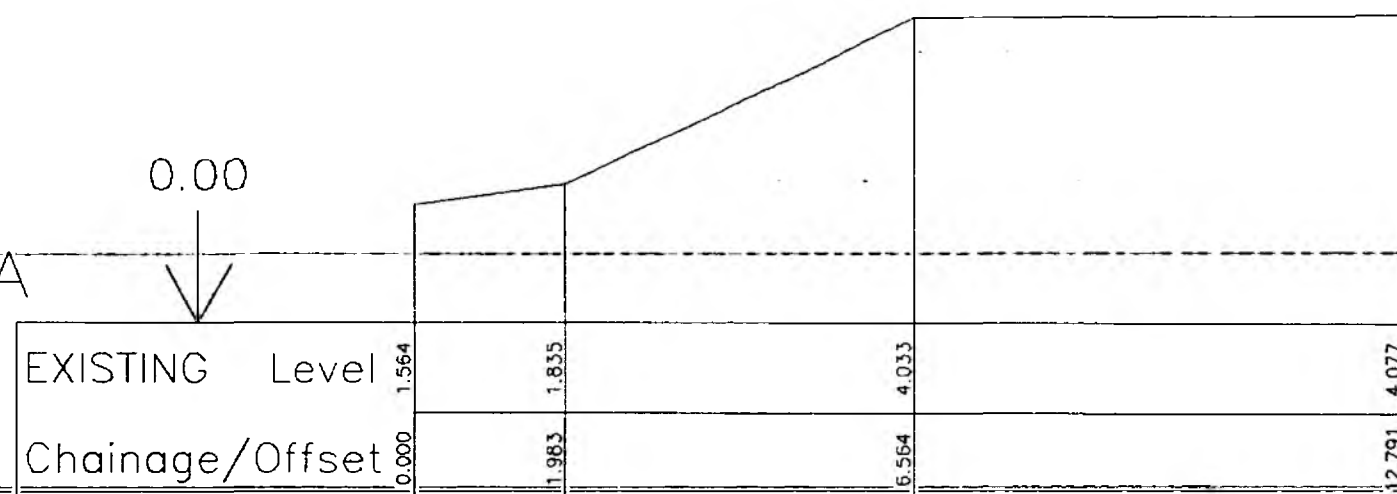
National Rivers Authority
Southern Region
Guildbourne House
Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

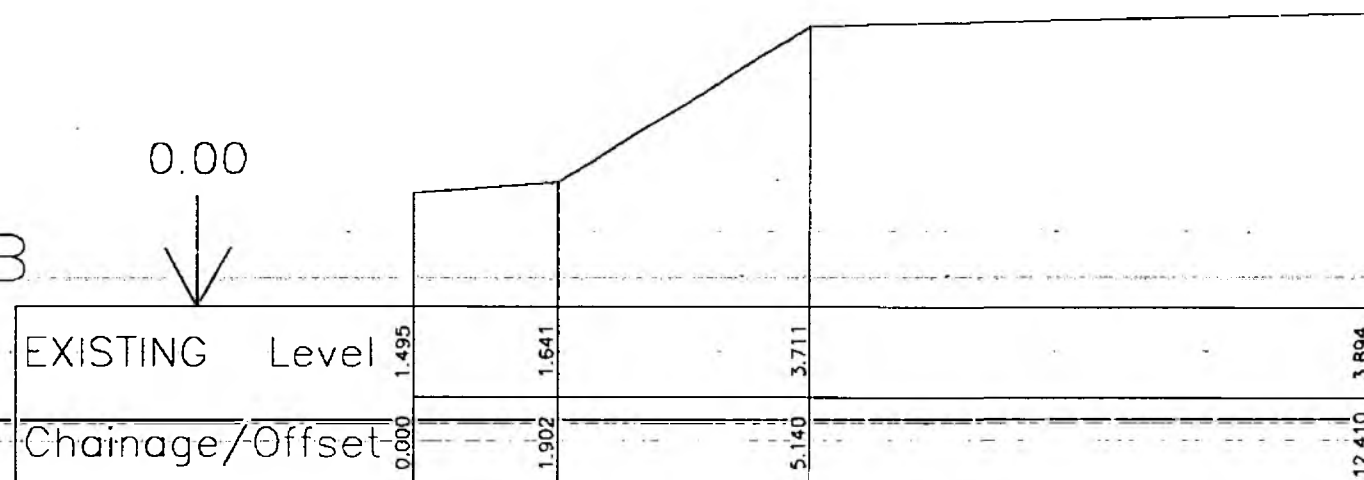
CONSULTING ENGINEERS
Chorrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER

6311AA

0.00
↓

Horiz. = 1:100 Vert. = 1:100

6311AB

0.00
↓

Horiz. = 1:100 Vert. = 1:100



NRA

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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

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6311AC

0.00



EXISTING Level	1.940	2.214	3.839	3.766
Chainage/Offset	0.000	2.924	5.471	15.175

Horiz. = 1:100 Vert. = 1:100



NRA

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Southern Region
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Worthing
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NATIONAL SEA DEFENCE
SURVEY PHASE IVA

CROSS-SECTIONS

Fryer & Rotherwell

CONSULTING ENGINEERS
Chorlton House, The Causeway
Bishop's Cleeve, Lichfield, Staffs CV35 9EF

6312C

0.00
↓

EXISTING Level	2.017	2.145	5.044	5.119	5.071	3.388	2.946	2.738
Chainage/Offset	0.000	5.144	11.011	12.530	13.924	18.283	20.098	27.019

Horiz. = 1:100 Vert. = 1:100

6312D

0.00
↓

EXISTING Level	1.739	2.424	5.127	5.159	5.083	3.123	2.661	2.570
Chainage/Offset	0.000	6.831	15.024	16.463	18.244	23.584	25.659	31.047

Horiz. = 1:100 Vert. = 1:100



NRA

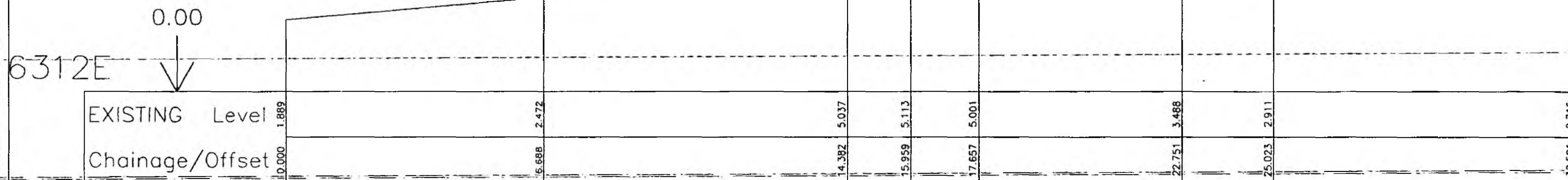
National Rivers Authority
Southern Region
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NATIONAL SEA DEFENCE
SURVEY. PHASE IVA

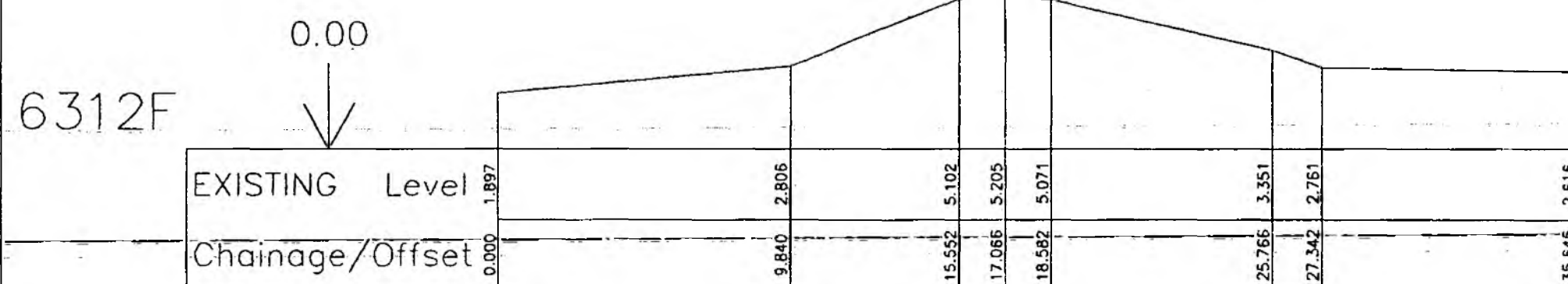
CROSS-SECTIONS

Hyman & Rothwell

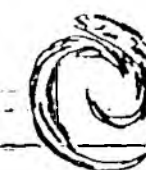
CONSULTING ENGINEERS
Charrington House, The Causeway
Bishop's Stortford, Herts CM23 2ER



Horiz. = 1:100 Vert. = 1:100



Horiz. = 1:200 Vert. = 1:200



NRA

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Southern Region
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Chatsworth Road
Worthing
Sussex BN11 1LD

NATIONAL SEA DEFENCE
SURVEY PHASE IVA

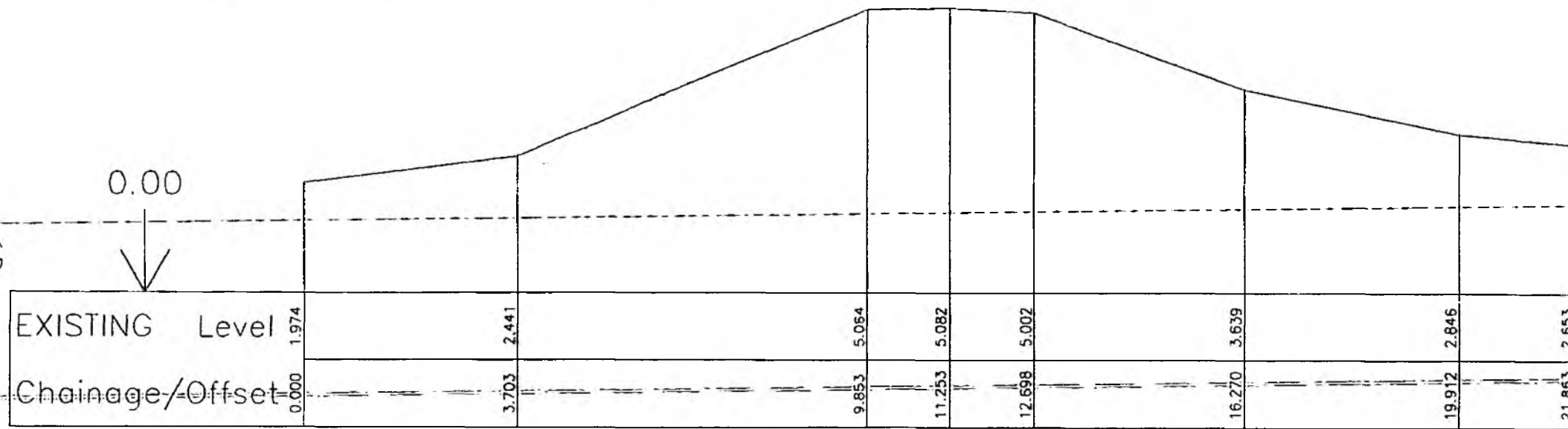
CROSS-SECTIONS

Hayes & Rothwell

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6312G

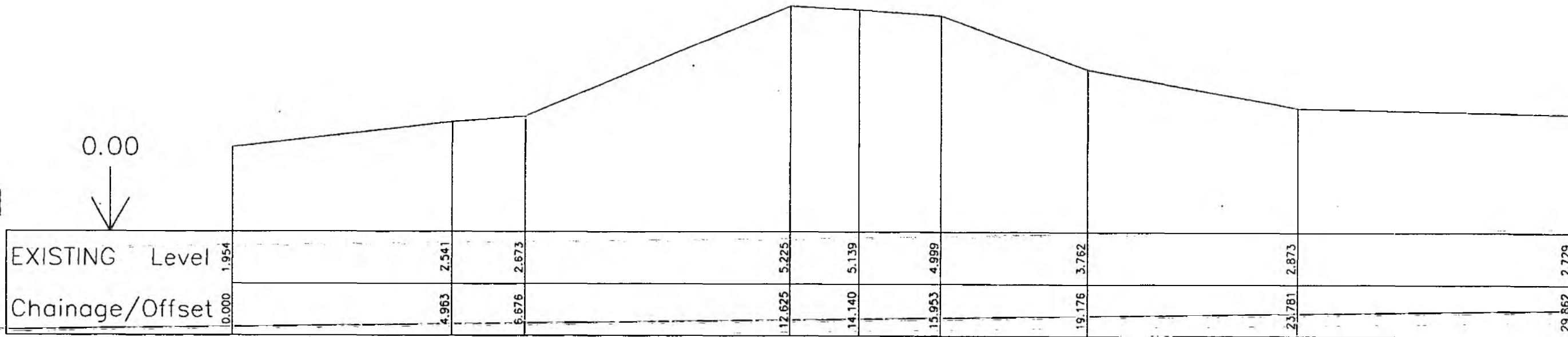
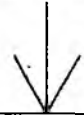
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Horiz. = 1:100 Vert. = 1:100

6312H

0.00



Horiz. = 1:100 Vert. = 1:100



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CROSS-SECTIONS

Pyman & Rotherham

CONSULTING ENGINEERS
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Bishop's Cleeve, Shropshire CV23 2ER

6312J

0.00
↓

EXISTING Level	2.039		2.342		4.965	5.049	4.847		3.631	3.406	2.873		2.737
Chainage/Offset	0.000	4.368		9.971	11.305	12.924		16.875	18.752	20.828		27.591	

Horiz. = 1:100 Vert. = 1:100

6312K

0.00
↓

EXISTING Level	5.029		4.917	5.526		5.433	4.706		3.855		3.498
Chainage/Offset	0.000	5.693	7.505		11.086	13.341	16.748		22.946		

Horiz. = 1:100 Vert. = 1:100



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CROSS-SECTIONS

Pyman & Rathbone

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