Iona Drainage District

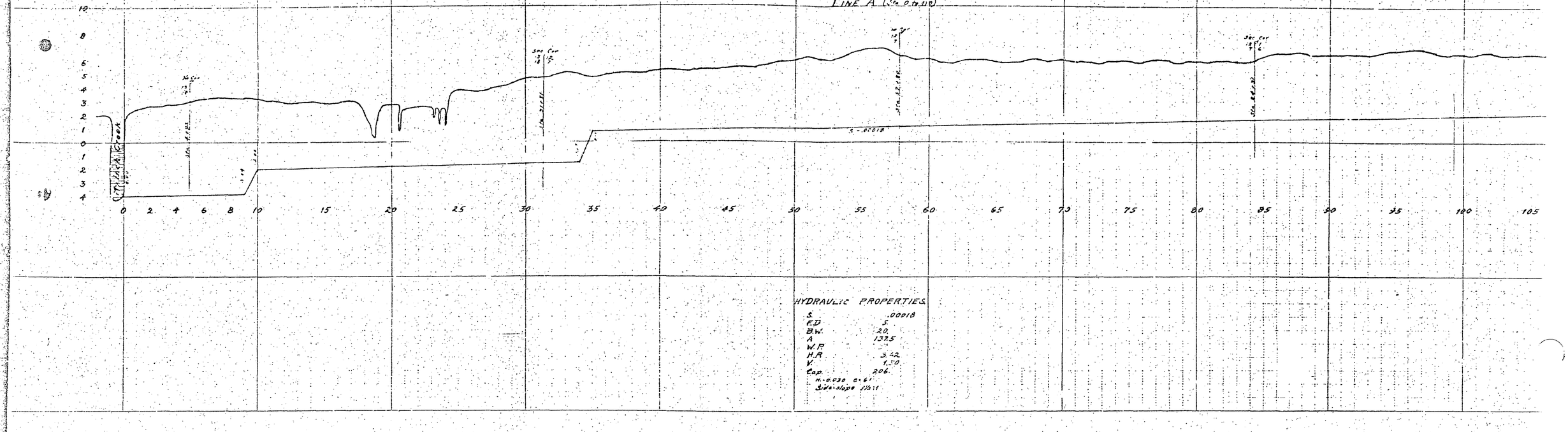
IONA DRAINAGE DISTRICT.

Lee County, Florida.

A. L. White,
Chief Engineer

Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

PROFILE
LINE A (Sta. 0 to 110)



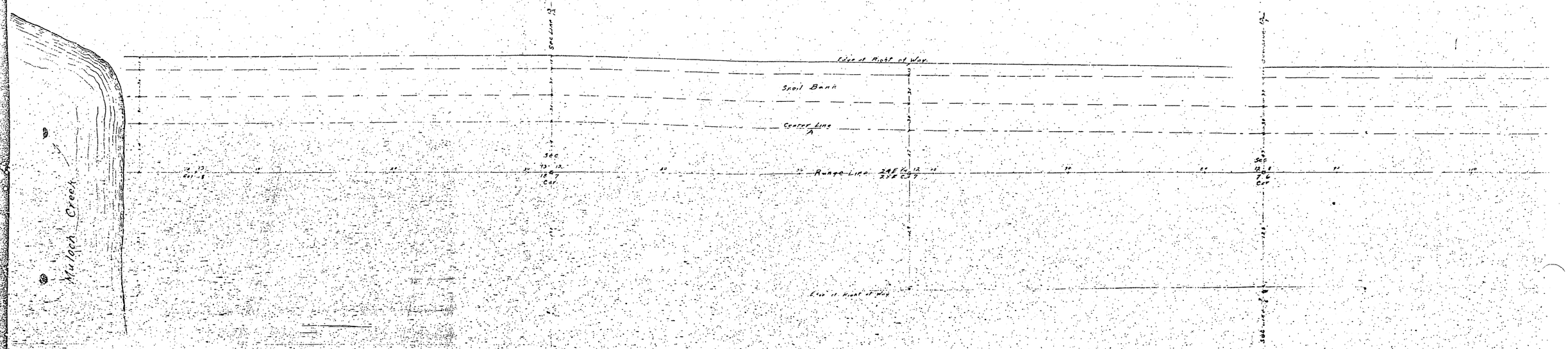
HYDRAULIC PROPERTIES

S	.00018
F.D	5
B.W.	20
A	1375
W.P.	
H.R	3.42
V	1.50
Cap.	206

n = 0.030 c = 6'
Side slope 1:1

PLAN
LINE A, Sta. 0 to 110.

S ⟶ N



STANDARD PROFILE PLATE A 4270

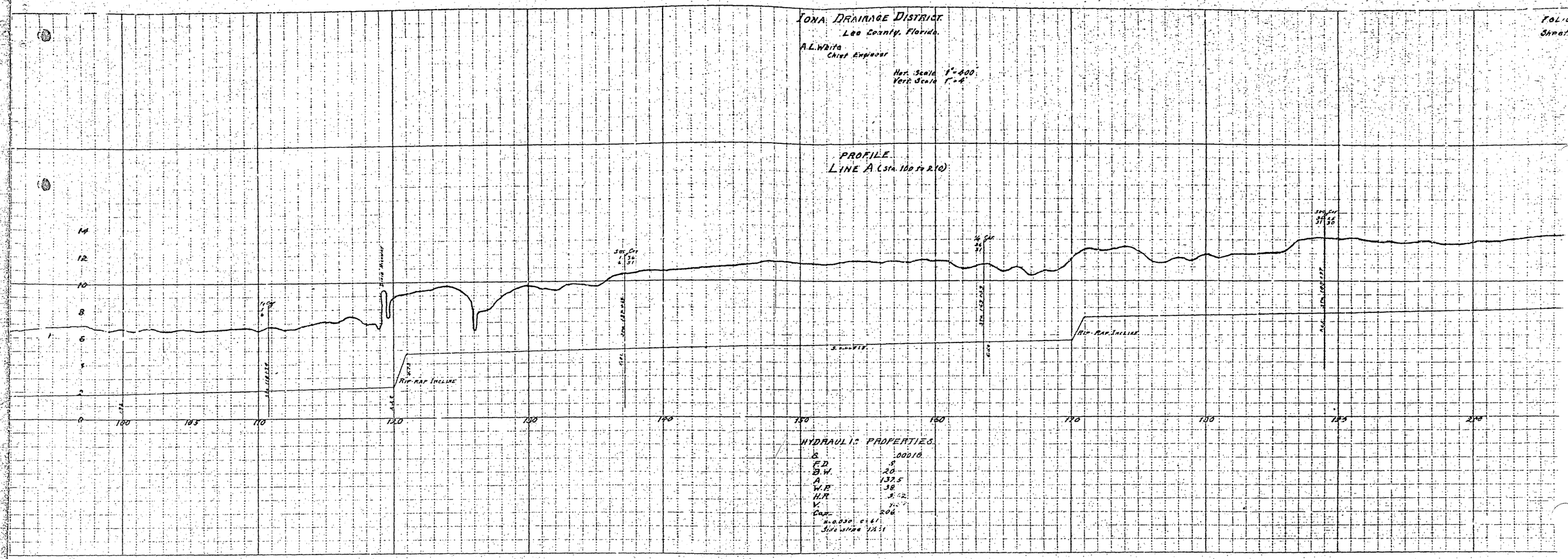
IONA DRAINAGE DISTRICT
Lee County, Florida.

A.L. White
Chief Engineer

Hor. Scale 1"=400'
Vert. Scale 1"=4'

Folio
Sheet

PROFILE
LINE A (Sta. 100 to 210)


14
12
10
8
6
5
2
0
100
110
120
130
140
150
160
170
180
190
200
210
Rip-Rap Incline
Rip-Rap Incline
Rip-Rap Incline
Sta. 120 Rise
Sta. 150 Rise
Sta. 170 Rise
Sta. 190 Rise
Sta. 200 Rise
Sta. 210 Rise
Sta. Cut 1.36 & 1.51
Sta. Cut 1.46 & 1.51
Sta. Cut 1.54 & 1.55
Sta. Cut 1.54 & 1.55
Sta. Cut 1.54 & 1.55

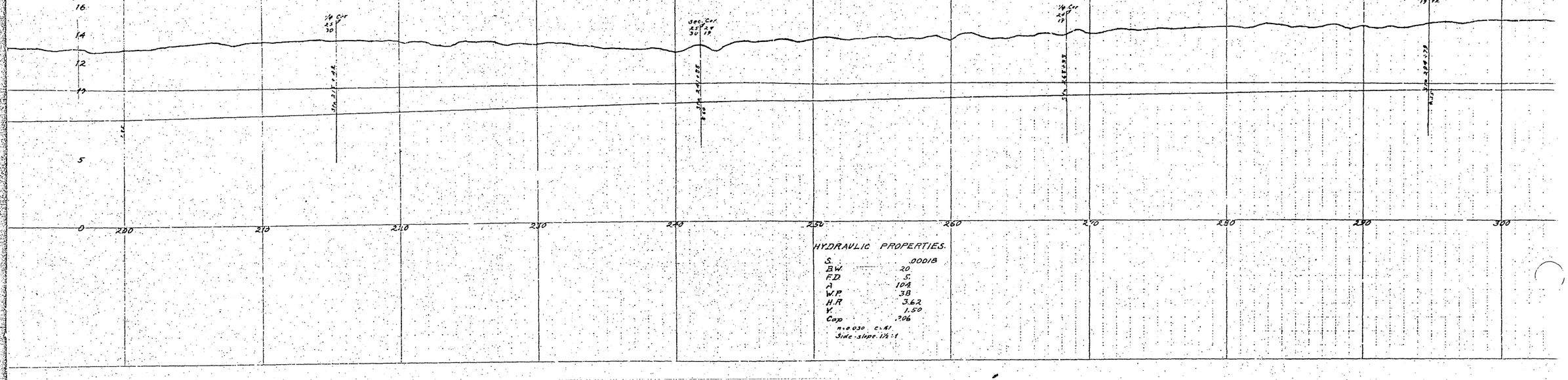
IONA DRAINAGE DISTRICT

Lee County, Florida

A.L. White,
Chief Engineer

Hor. Scale 1" = 400'
Vert Scale 1" = 4'

PROFILE
LINE A, (Sta. 200 to 310)



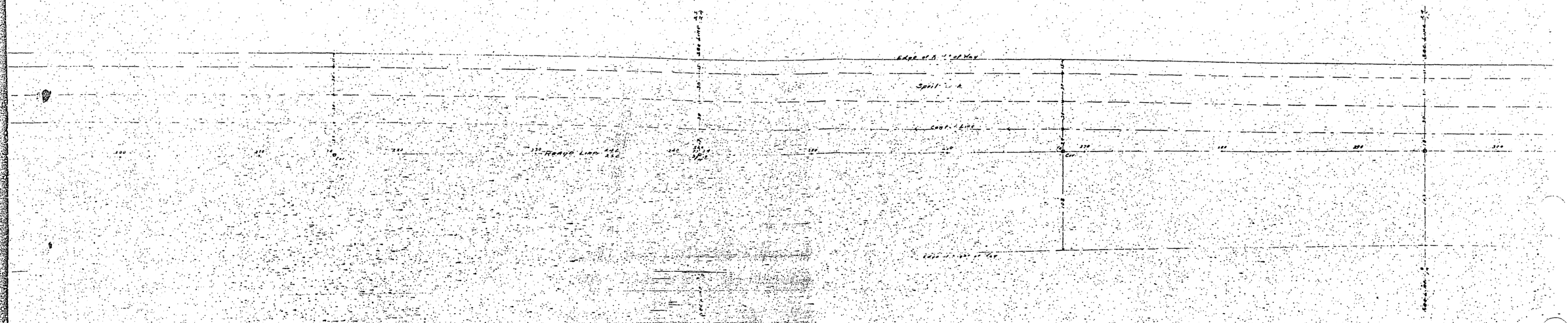
HYDRAULIC PROPERTIES.

S	.0018
BW	20
FD	5
A	104
W.P.	38
H.R	3.62
V.	1.50
Cap	206

n = 0.030 C = 61
Side slope 1½ : 1

PLAN
LINE A, Sta 200 to 310.

S. ⟵ ⟶ N.



LONA DRAINAGE DISTRICT

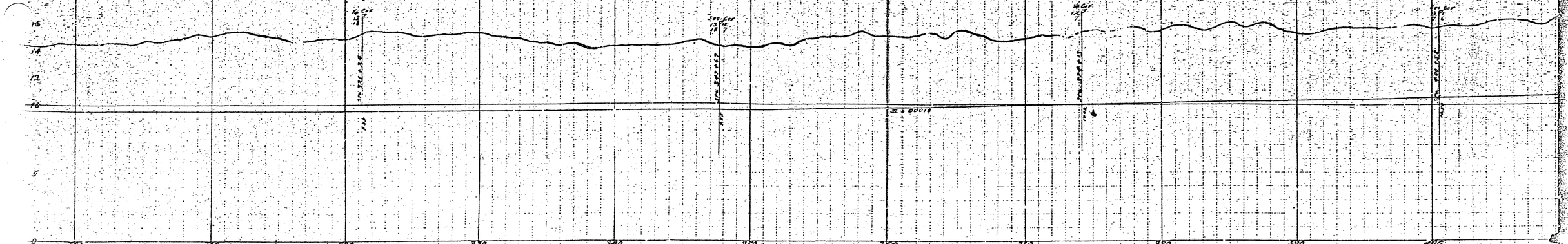
Lee County, Florida.

A. L. White
Chief Engineer

Folio B
Sheet 4

Hor. Scale 1" = 40'
Vert. Scale 1" = 4'

PROFILE
LINE A (Sta. 300 to 410)



HYDRAULIC PROPERTIES.

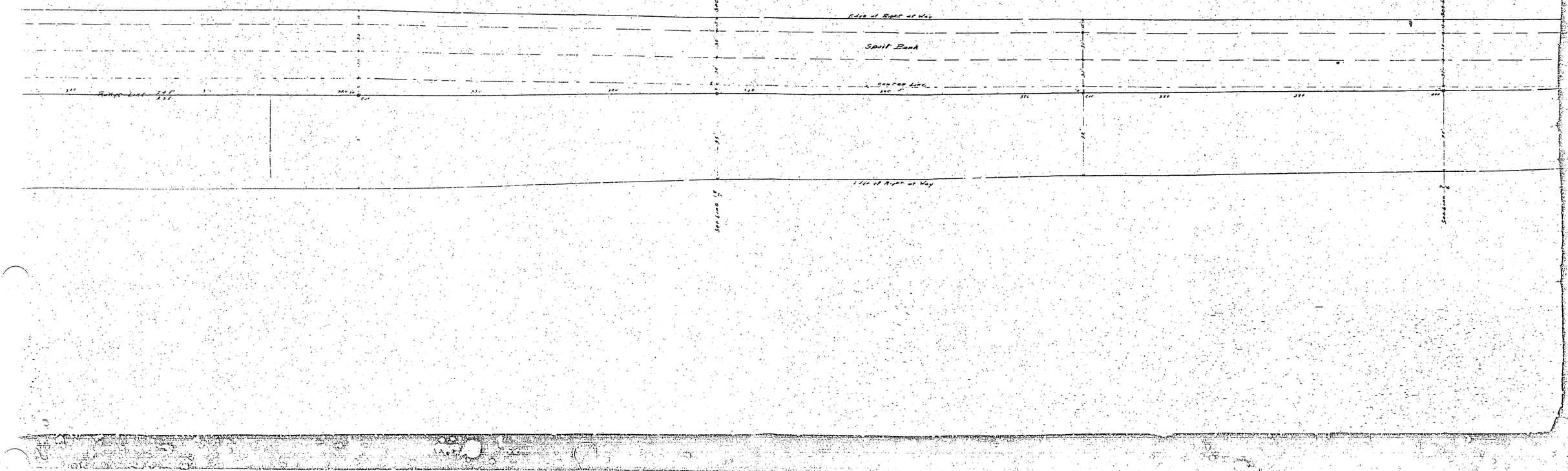
S.	.00018
F.D.	5.
B.W.	28
A.	137.5
W.P.	38
H.R.	3.62
V.	1.50
Cap.	206

n. 0.030 d. 6'
Side slope 1½:1

Dec. 20, 1

PLAN
LINE A, Sta. 300 to 410

S ⟷ N



LONA DRAINAGE DISTRICT

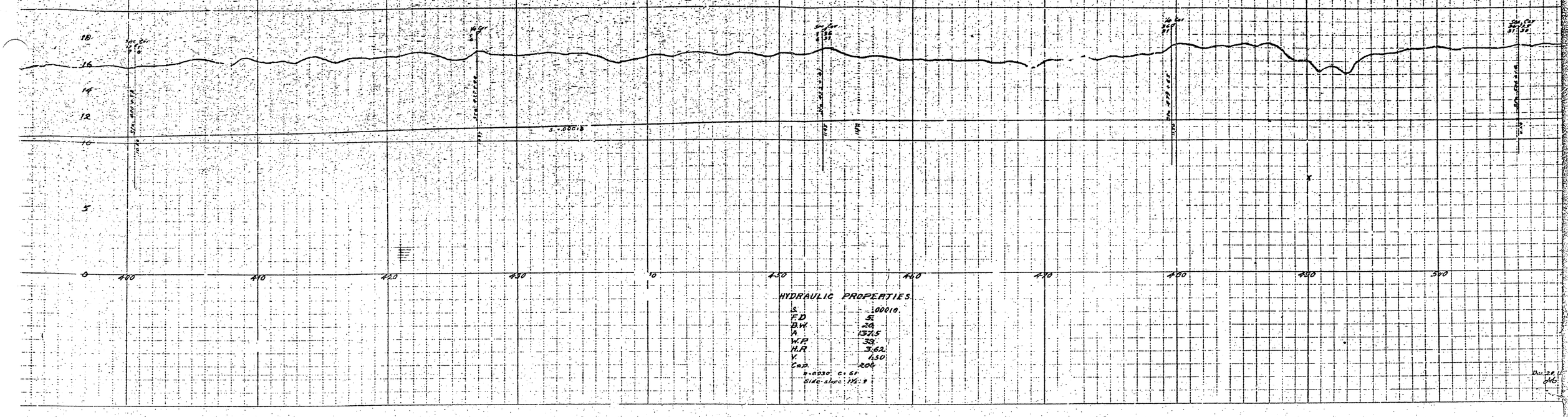
Lee County, Florida

A. L. White
Chief Engineer

Hor. Scale 1" = 40ft.
Vert. Scale 1" = 4'

Folio B
Sheet 5

PROFILE
LINE A (Sta. 400 to 510)


18
16
14
12
10
8
0
400
410
420
430
10
450
460
470
480
490
500
510
S. .0001 ft
Ground Surface
Ground Surface
Ground Surface

IONA DRAINAGE DISTRICT
Lee County, Florida

A. Lavalle
Chief Engineer

Plan Scale 1" = 100'
Vert. Scale 1" = 4'

PROFILE
LINE A (Sta. 5+00 to 584+82)

Sta. 0+00
Elev. 11.6

Sta. 5+84.82
Elev. 22.49

HYDRAULIC PROPERTIES.

D	0.0024 FS
F.D.	5
F.P.	4
A.	18
W.P.	11.02
H.R.	1.61
V.	1.42
Q.	25.5

Conc. - n = 0.014 - drain 5
Corr. Metal - n = 0.024 - drain 4.18

FOLIO
(Blank)

PLAN
LINE A, Sta. 500 to 584+82

S. ⟵ ⟶ N.

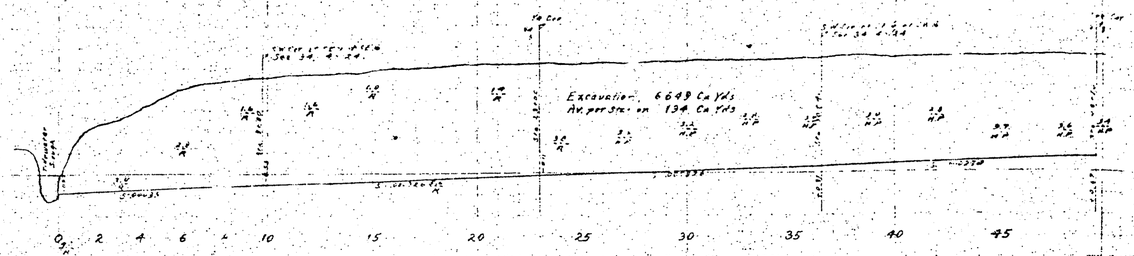
Edge of Right of Way
Spoil Bank
Range Line
Center Line
A
Edge of Right of Way
Edge of Right of Way
Spoil Bank
Center Line
A
Edge of Right of Way

IONA DRA. AG. DISTRICT
Lee County, Florida.
A. L. White,
Chief Engr.

Scale 1" =
Vert. Scale 1" =

Folio B-
Sheet 7.

PROFILE
LINE B.



HYDRAULIC PROPERTIES.

S.	.00035
F.D	3.
B.W.	4.
A.	18.
W.P.	12.97 11.2
H.R.	1.32 1.61
V.	1.08 1.21
Cap.	19.45 21.8

n = .0035 c = 68.61
Side-slope 2:3

HYDRAULIC PROPERTIES.

S.	.000326
F.D.	3.
B.W.	4.
A.	18.
W.P.	13.91 11.2
H.R.	1.37 1.61
V.	0.925 1.14
Cap.	17.75 20.5

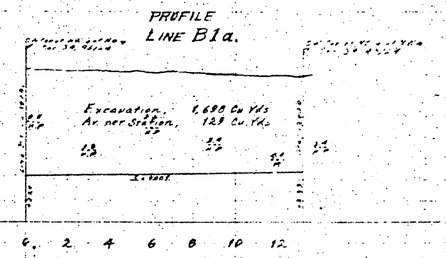
n = .0035 c = 65.50
Side slope - 2:3

HYDRAULIC PROPERTIES.

S.	.000274
F.D.	3.
B.W.	4.
A.	18.
W.P.	13.34 11.2
H.R.	1.35 1.6
V.	0.793 1.05
Cap.	14.3 18.9

n = .0035 c = 58.50
Side-slope - 2:3

PROFILE
LINE B1a.



HYDRAULIC PROPERTIES.

S.	.000148
F.D	3.
B.W.	4
A.	18
W.P.	13.84 11.2
H.R	1.39 1.61
V.	0.675 0.76
Cap.	12.11 13.7

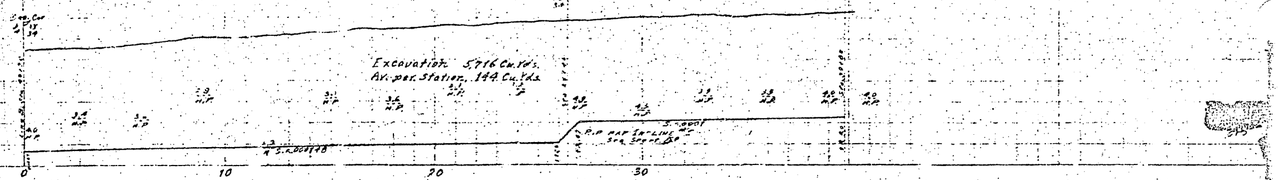
n = 0.035 c = 47.41
Side-slope 2:3

HYDRAULIC PROPERTIES.

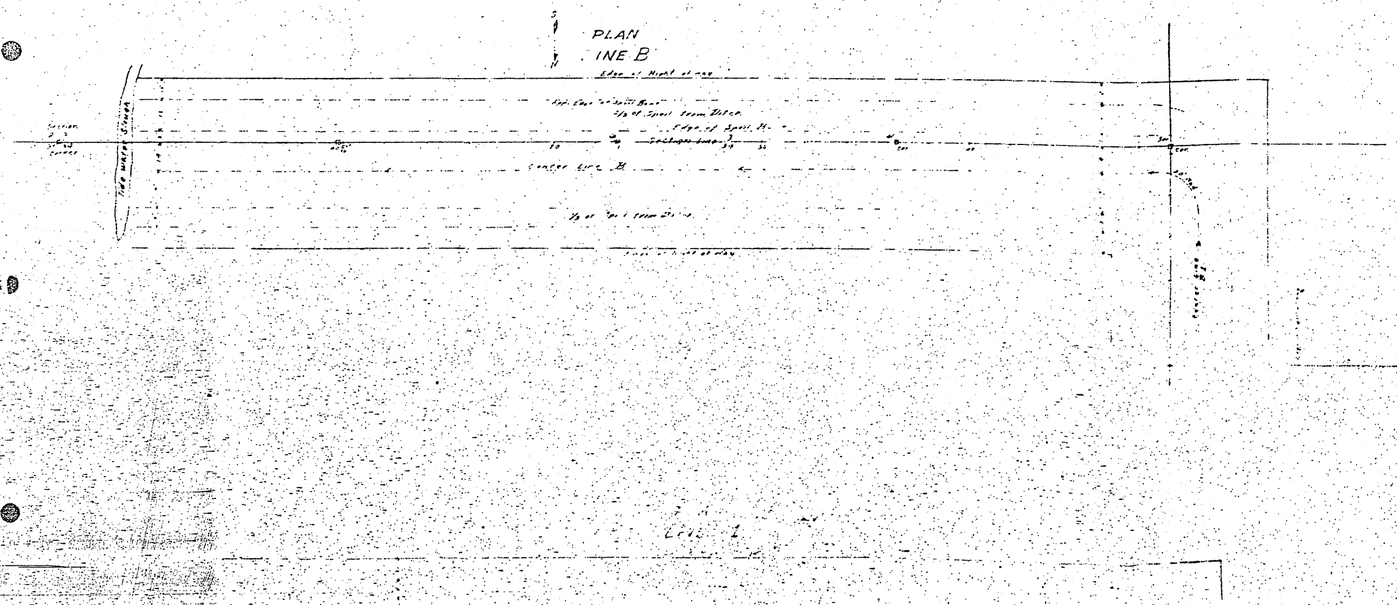
S.	.0001
F.D	3.
B.W.	4.
A.	18.
W.P.	12.84 11.2
H.R.	1.39 1.61
V.	0.553 0.62
Cap.	9.5 10.1

n = 0.035 c = 47.41
Side slope 2:3

PROFILE
LINE B1

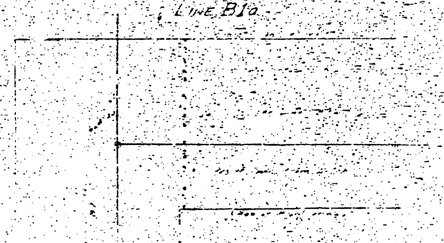


PLAN
LINE B



TYPICAL CROSS SECTION
OF ALL 4 BW
DITCHES
Scale 1" =

PLAN
LINE B1a



IONA DRAINAGE DISTRICT

Lee County, Florida

A. L. White, Chief Engineer

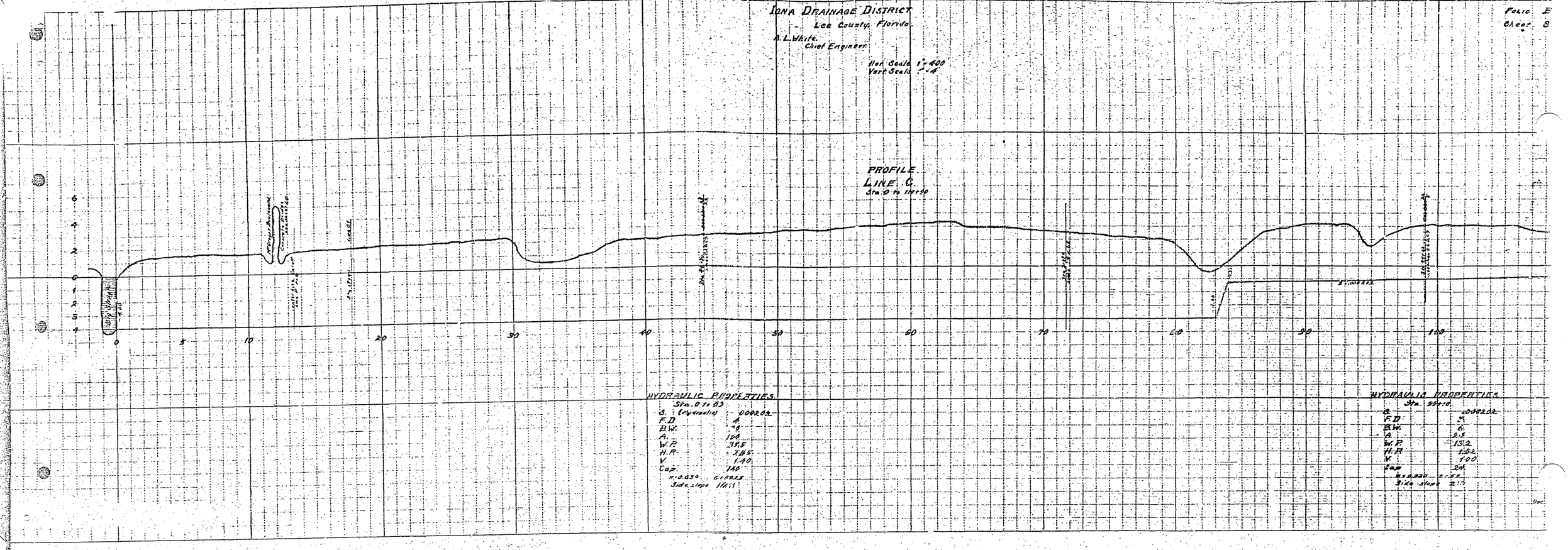
Folio E

Sheet 8

Hor. Scale 1" = 400
Vert. Scale 1" = 4'

PROFILE LINE C.

Sta. 0 to 119+50


6
4
2
0
1
2
3
4
0
5
10
20
30
40
50
60
70
80
90
100
Big Slough
Ex. Ground
Ex. Ground
Ex. Ground

STANDARD PROFILE PLATT A 4X10

IONA DRAINAGE DISTRICT

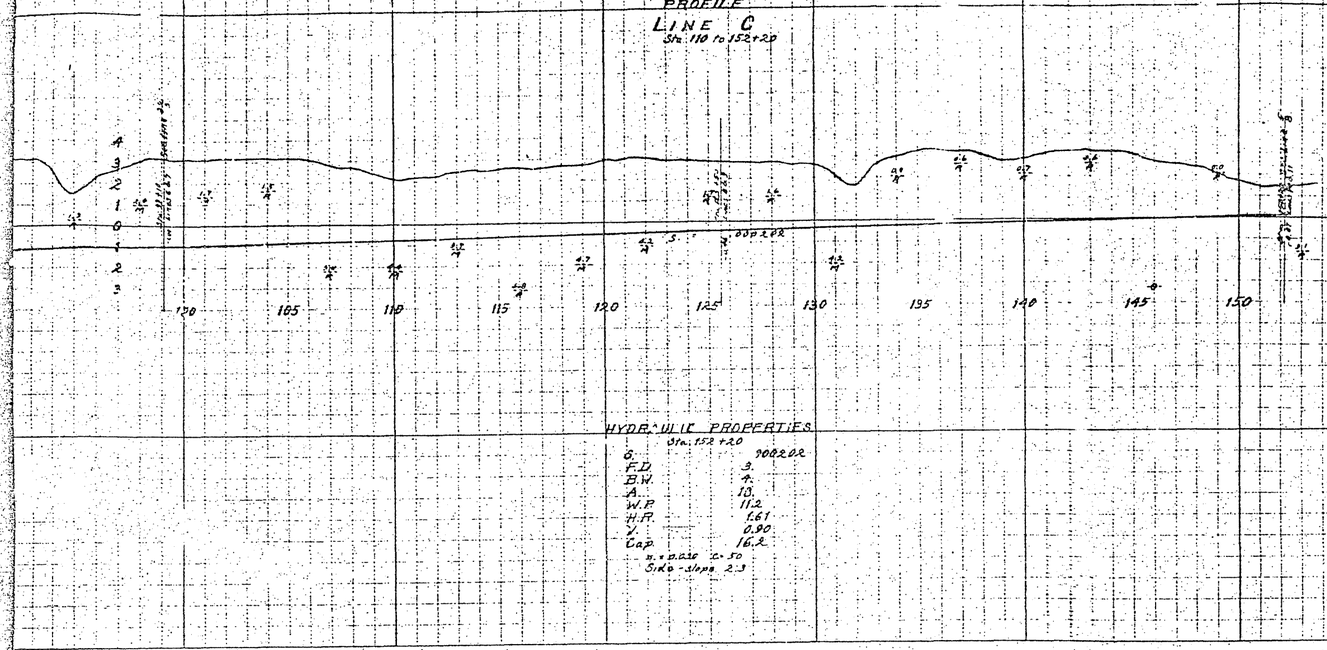
Lee County, Florida.

A. L. White,
Chief Engineer

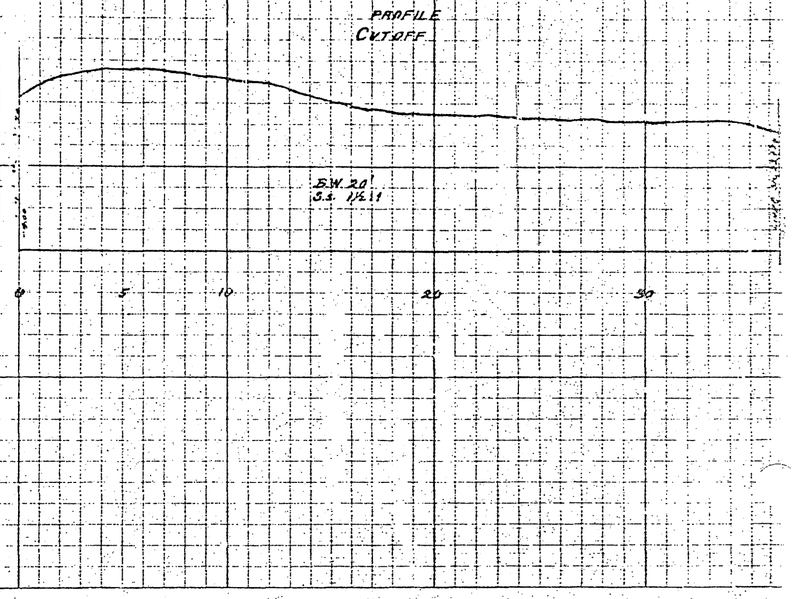
Hor. Scale 1" = 100'
Vert. Scale 1" = 4'

PROFILE LINE C

Sta. 110 to 152+20



PROFILE CUTOFF



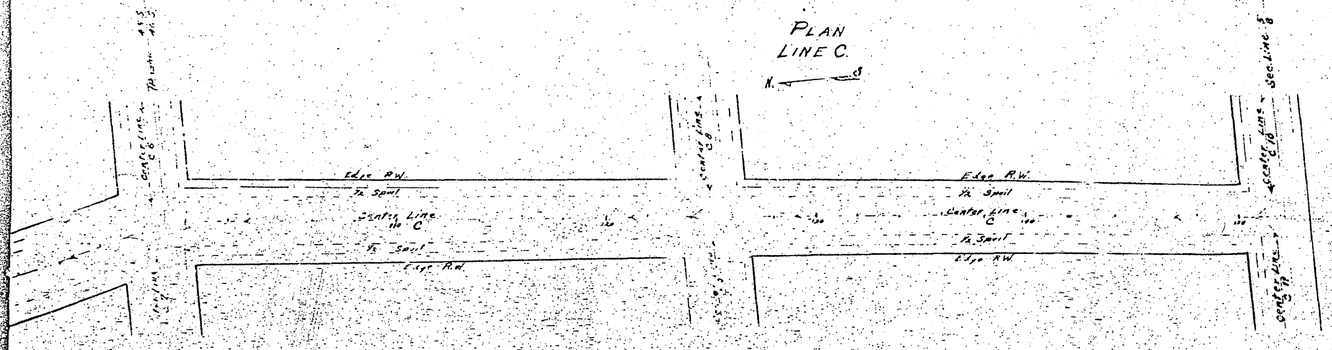
HYDRAULIC PROPERTIES

Sta. 152+20

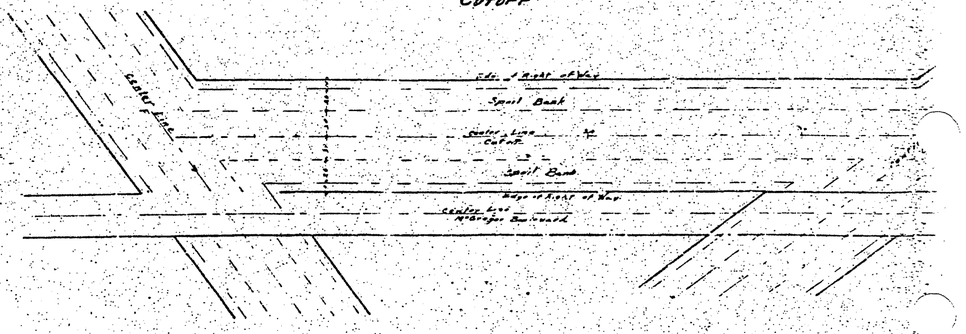
Q.		3.	900.202
F.D.		3.	
B.W.		4.	
A.		13.	
W.P.		11.2	
H.R.		1.61	
V.		0.90	
Cap.		16.2	

n. = 0.030 C = 50
Sike - slope 2.3

PLAN LINE C.



PLAN CUTOFF



Iona Drainage District

Lee County, Florida

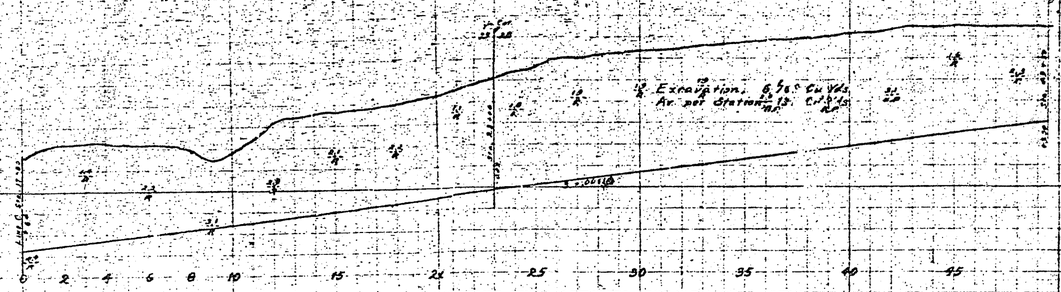
A. L. White, Chief Engineer

Folio B

Sheet 9

Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

PROFILE LINE C1

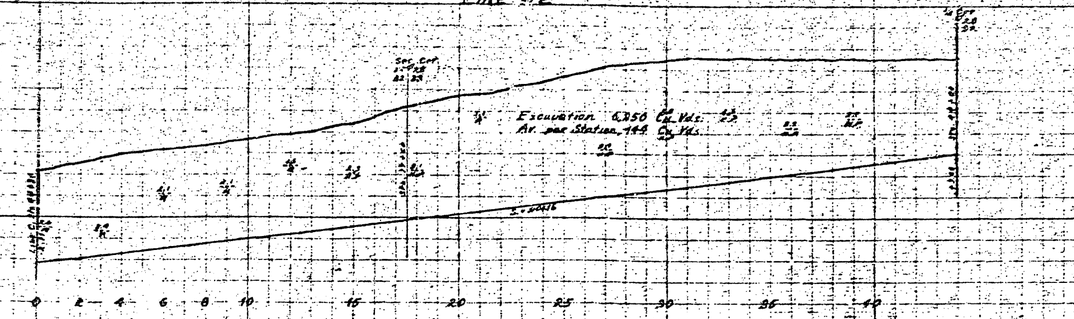


HYDRAULIC PROPERTIES

S.	.00114
F.D.	1.65
B.W.	4.
A.	8.41
W.P.	7.96
H.R.	1.06
V.	1.58
Cap.	13.3

n = 0.030 c = 45.6
Side-Slope 2:1

PROFILE LINE C2

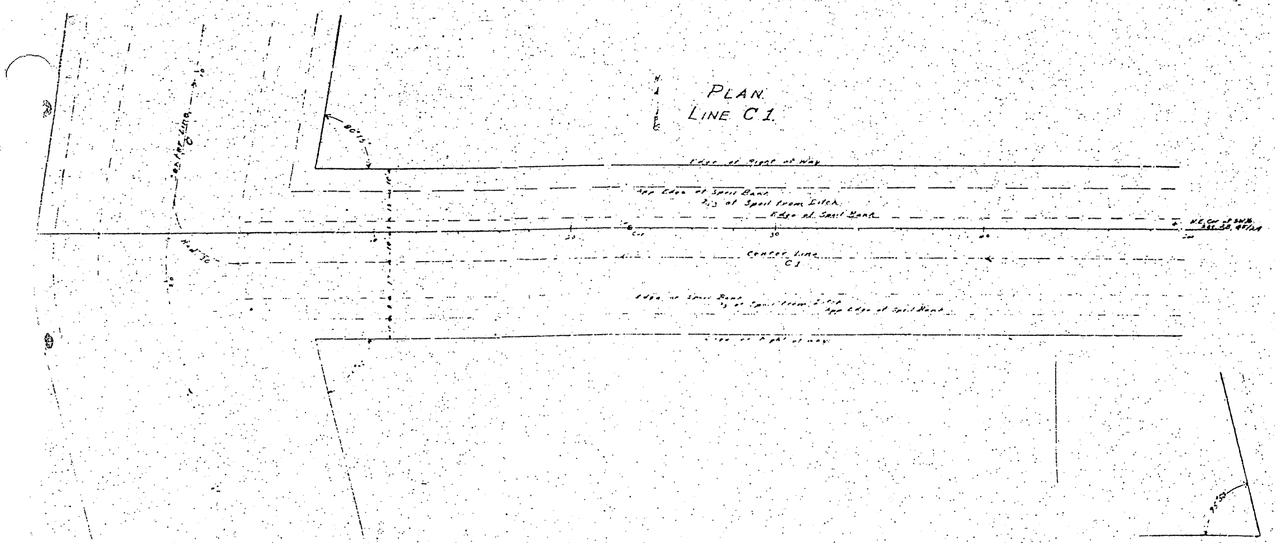


HYDRAULIC PROPERTIES

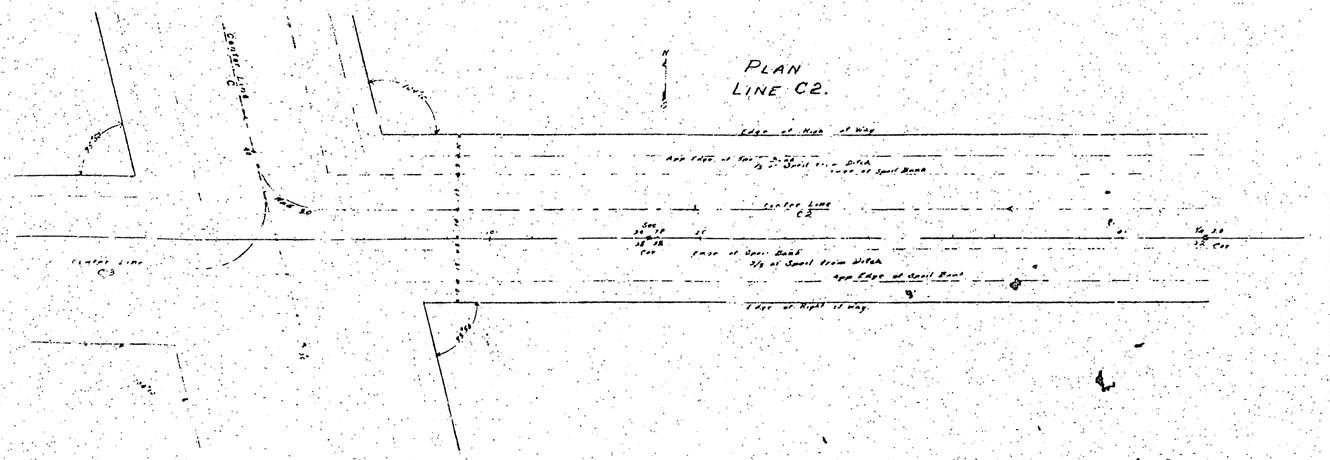
S.	.00116
F.D.	1.65
B.W.	4.
A.	8.41
W.P.	7.96
H.R.	1.06
V.	1.60
Cap.	13.46

n = 0.030 c = 45.8
Side-slope 2:1

PLAN LINE C1.



PLAN LINE C2.



IONA DRAINAGE DISTRICT

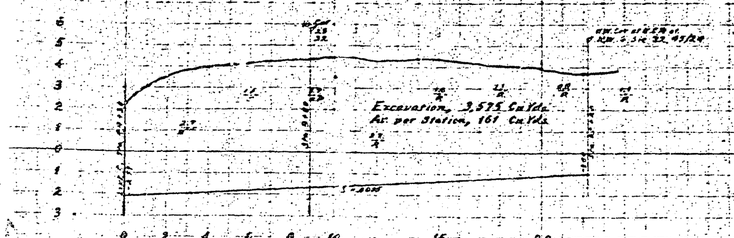
Lee County, Florida.

A.L. White, Chief Engineer.

Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

Field B.
Sheet 10.

PROFILE LINE C3.

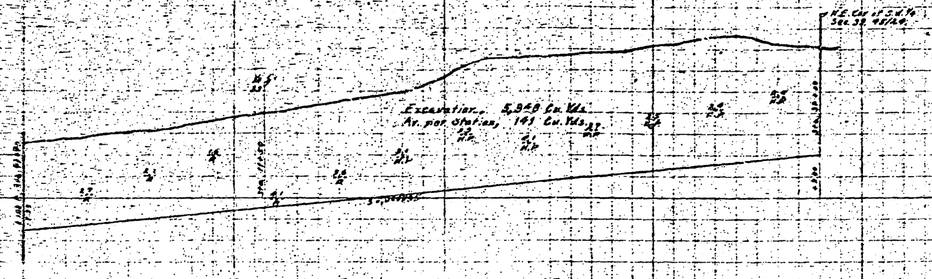


HYDRAULIC PROPERTIES.

S.	.0030
F.D.	3.
B.W.	4.
A	18.
W.P.	12.96 11.2
H.R.	1.39 1.61
V.	1.30 1.45
Cap.	# 26.1

n = 0.030 (-45 #)
Side slopes 2:1.

PROFILE LINE C4.

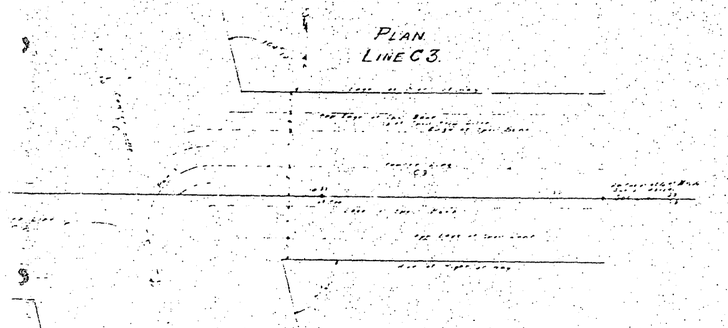


HYDRAULIC PROPERTIES.

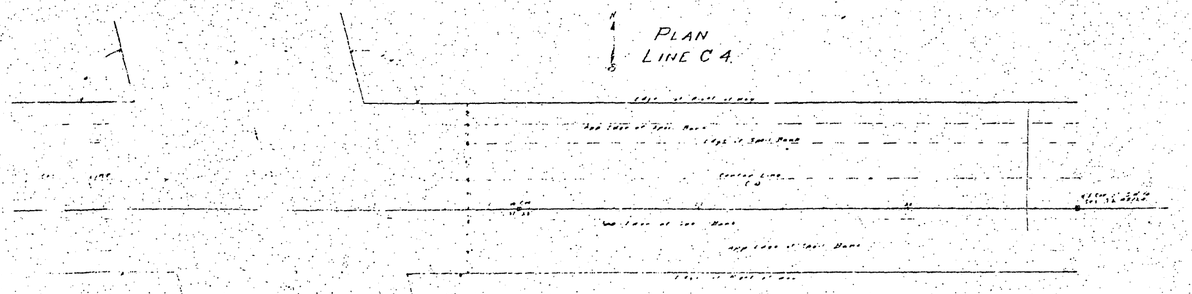
S.	.00935
F.D.	1.5
B.W.	4.
A	7.5
W.P.	7.6
H.R.	0.99
V.	1.37
Cap.	10.3

n = 0.030 (-45
Side-slope 2:1

PLAN LINE C3.



PLAN LINE C4.



ONA DRAINAGE DISTRICT

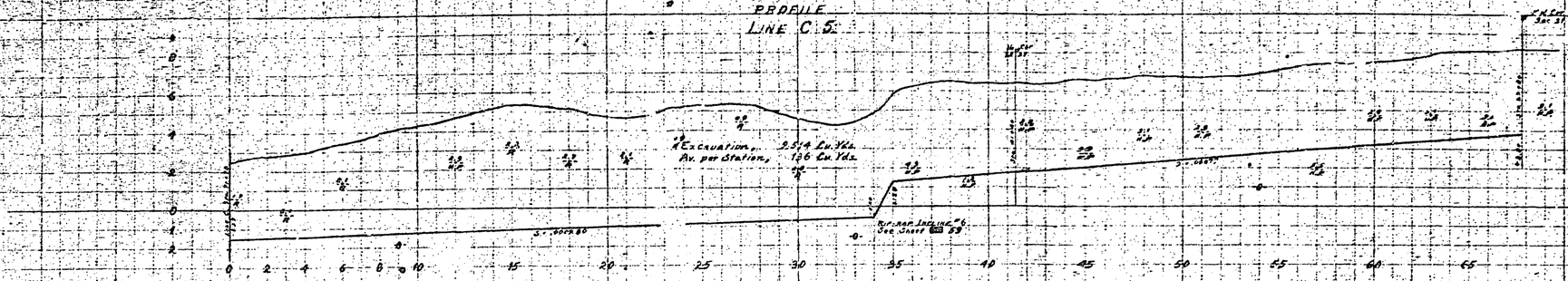
Lee County, Florida.

A. L. White, Chief Engineer.

Folio D
Sheet 11

Hor. Scale 1" = 100'
Vert. Scale 1" = 4'

PROFILE
LINE C 5.



HYDRAULIC PROPERTIES

S.	.00248.	
F.D	3.	
B.W.	4.	
A.	16.	
W.P.	12.94	11.2
H.R.	1.39	1.61
V.	4.853	5.04
Cap.	77.3	19.2

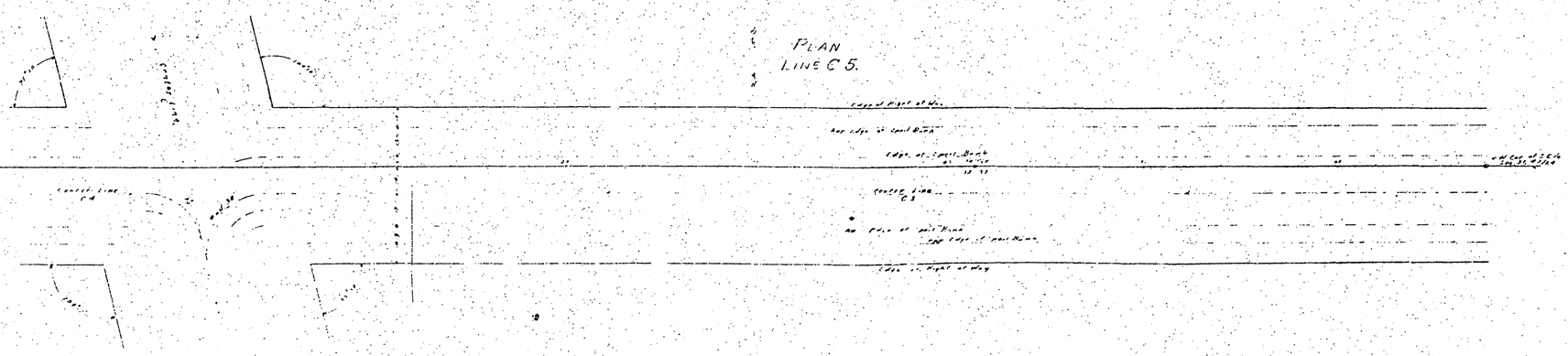
n = .0030 c = 85.59
Side-slope 2 : 1

HYDRAULIC PROPERTIES

S.	.00077.
F.D	1.5
B.W.	4.
A.	7.5
W.P.	7.6
H.R.	0.99
V.	1.24
Cap.	9.3

n = .0030 c = 45
Side-slope 2:1.

PLAN
LINE C 5.



IONA DRAINAGE DISTRICT

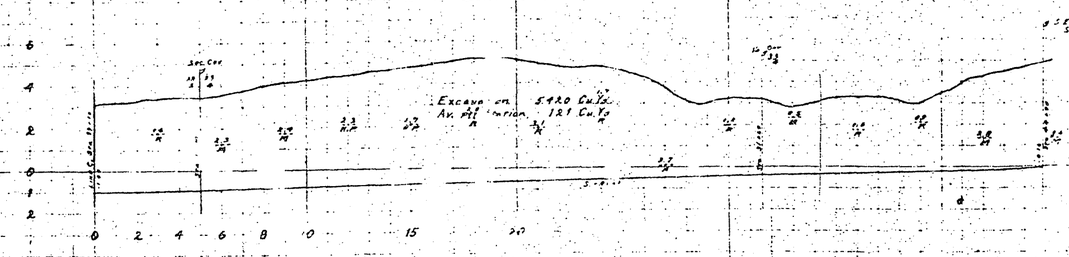
Lee County, Florida.

A. L. White
Chief Engineer.

Hor. Scale 1" 400
Ver. Scale 1" 4'

FOLIO B
SHEET 12.

PROFILE.
LINE C 6.

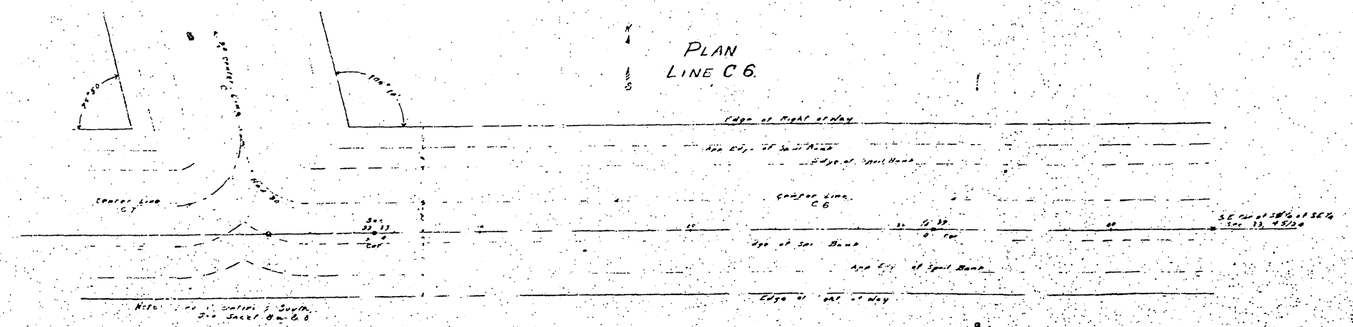


HYDRAULIC PROPERTIES.

L	.0002	
F.D.	.3.	
D.H.	4.	
A	18.	
W.P.	12.96	11.2
H.R.	1.39	1.61
V.	0.89	0.90
Cap.	16	20

n : 0.030 c : 48.50
Cut-slope 2:1

PLAN
LINE C 6.

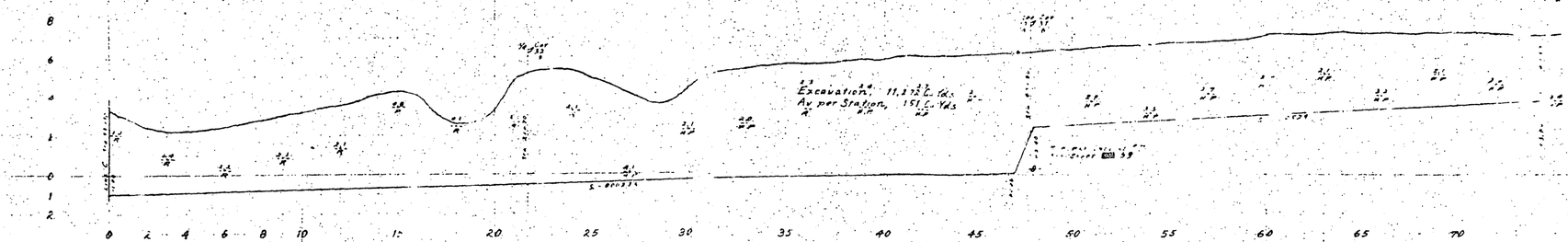


IONA DRAINAGE DISTRICT
Lee County, Florida
A.L. White
District Engineer

Hor. Scale 1" = 40
Vert. Scale 1" = 4

Solid [illegible]
Sheet 1.

PROFILE
LINE C 7



HYDRAULIC PROPERTIES

S.	.000225	
F.D.	3	
B.W.	4	
A.	10.	
W.P.	12.98	11.2
H.R.	1.03	1.61
V.	0.85	0.95
Cap.	15.3	17.1

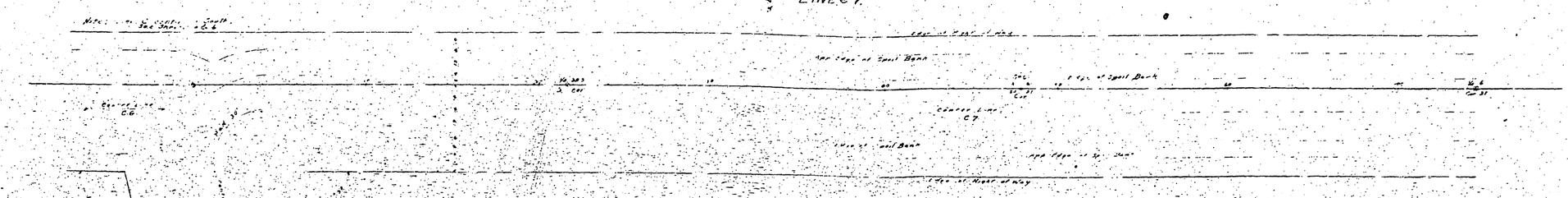
n = 0.035 c = 48.50
Side slope 2:3

HYDRAULIC PROPERTIES

S.	.000529	
F.D.	3.	
B.W.	4	
A.	18.	
W.P.	12.74	11.2
H.R.	1.39	1.61
V.	1.33	1.48
Cap.	25.9	26.6

n = 0.030 c = 49.51
Side slope 2:3

PLAN
LINE C 7



IONA DRAINAGE DISTRICT

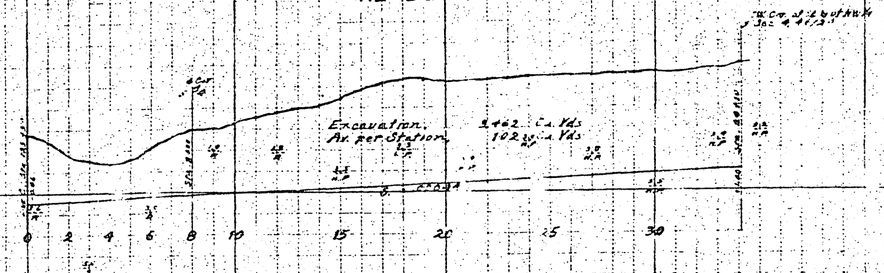
Lee County, Florida.

A. L. White, Chief Engineer.

Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

FOLIO B
SHEET 18

PROFILE LINE C8

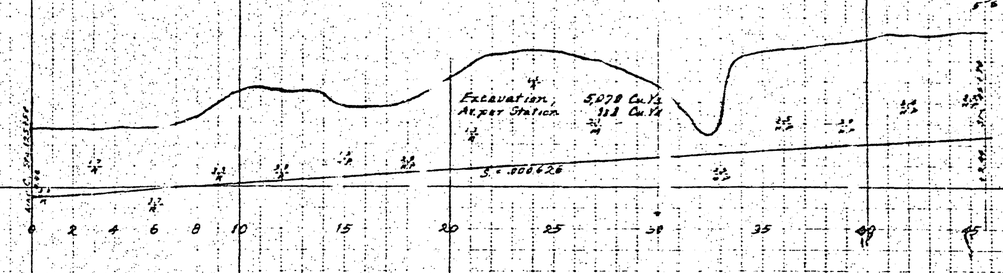


HYDRAULIC PROPERTIES

S.	.0049
F.D.	3'
B.W.	4'
A.	18.
W.P.	11.2
H.R.	1.61
V.	1.36
Cap.	24.4

n = 0.030 ; 1:1
Side slopes 2:1

PROFILE LINE C9

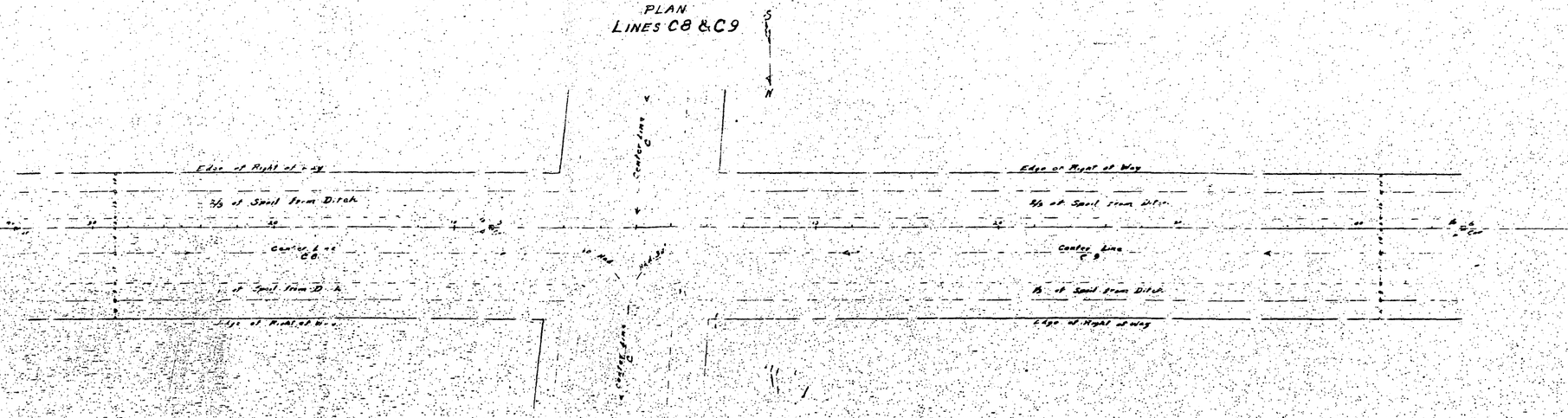


HYDRAULIC PROPERTIES

S.	.00626
F.D.	3'
B.W.	4'
A.	19
W.P.	11.2
H.R.	1.61
V.	1.62
Cap.	29.2

n = 0.030 1:1
Side slopes 2:1

PLAN LINES C8 & C9

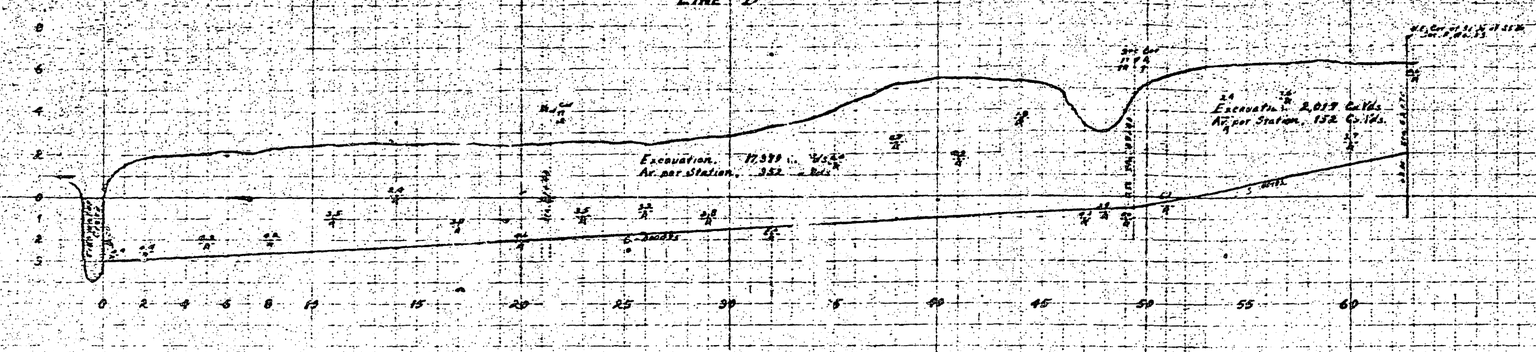


IONA DRAINAGE DISTRICT
Lee County, Florida
A. L. White,
Chief Engineer.

Hor. Scale 1"=400'
Vert Scale 1"=4'

Sheet

PROFILE
LINE D



HYDRAULIC PROPERTIES

S.	.000495
F.D	3.
B.W.	4.
A.	39.
W.P.	23.96
H.R.	1.7
V.	1.50
Cap.	58.4

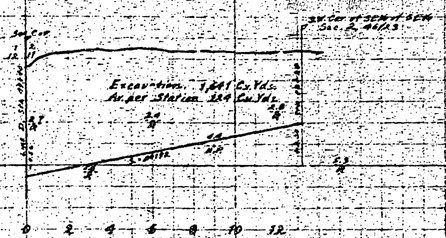
n.=0.30 c.=51.6
Side slope 3:1

HYDRAULIC PROPERTIES

S.	.00192
B.W.F.D	0.9
B.W.	4.
A.	4.14
W.P.	6.16
H.R.	0.67
V.	1.43
Cap.	5.9

n.=0.30 c.=40
Side slope 2:1

PROFILE
LINE D1

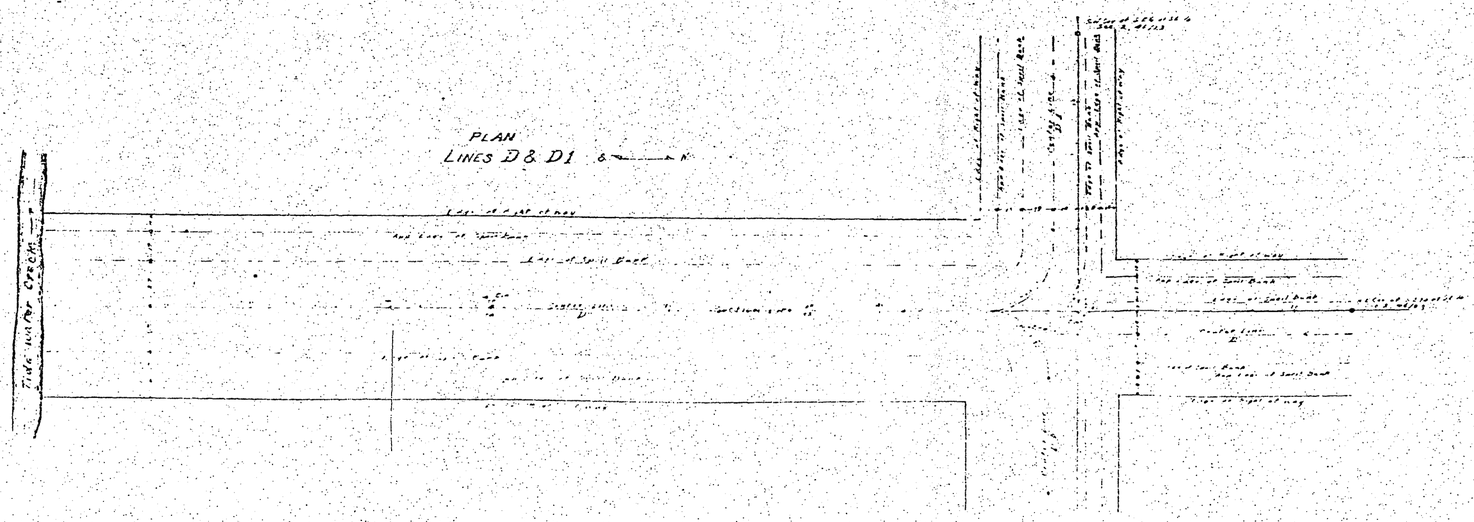


HYRAULIC PROPERTIES

S.	.00192
F.D	0.9
B.W.	4.
A	4.14
H.R. 0.67	W.P. 6.16
V.	1.43
Cap.	5.9

n.=0.30 c.=40
Side slope 2:1

PLAN
LINES D & D1



Lona Drainage District

Lee County, Florida

Lines
County Engineer

Hor. Scale 1" = 400'
Vert Scale 1" = 4'

Folio B
Sheet 15

PROFILE LINE C 10

Excavation, 4,241 Cu. Yds.
Av. per Station, 85 Cu. Yds.

S = .00187

HYDRAULIC PROPERTIES

S.	.00187
F.D.	3.
B.W.	4.
A.	12.
W.P.	11.2
H.R.	1.61
V.	0.87
Cap.	15.6

n = .0030 c = 51

PROFILE LINE C 11

Excavation, 4,957 Cu. Yds.
Av. per Station, 103 Cu. Yds.

S = .000311

HYDRAULIC PROPERTIES

S	.000311
F.D.	3.
B.W.	4.
A	18.
W.P.	11.2
H.R.	1.61
V.	1.14
Cap.	20.5

n = .0030 c = 51
Side slope 2:1

PLAN LINES C10 & C11.

Edge of Right of Way

⅓ of Spoil from Ditch

Center Line C 10

Center Line C 11

⅓ of Spoil from Ditch

Edge of Right of Way

IONA DRAINAGE DISTRICT

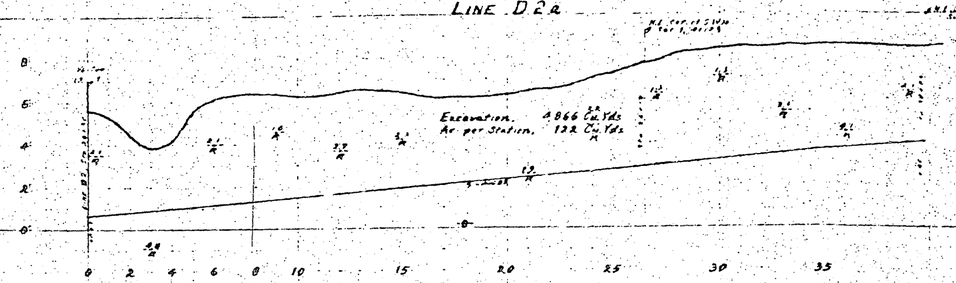
Lee County, Florida.

A. L. White,
Chief Engineer

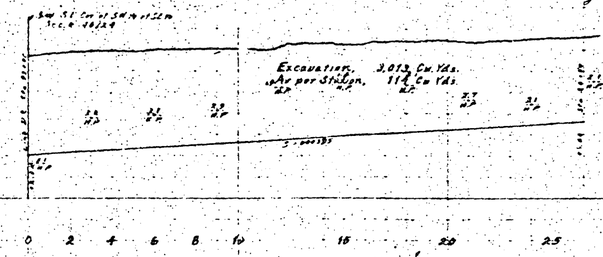
Hor. Scale 1" = 40'
Vert Scale 1" = 4'

Folio B
Sheet 18

PROFILE
LINE D2a



PROFILE
LINE D2c.



HYDRAULIC PROPERTIES.

S.	.0085
F.D.	1.5
B.W.	4.
A.	7.50
W.P.	7.60
H.R.	0.99
V.	1.30
Cap.	9.79

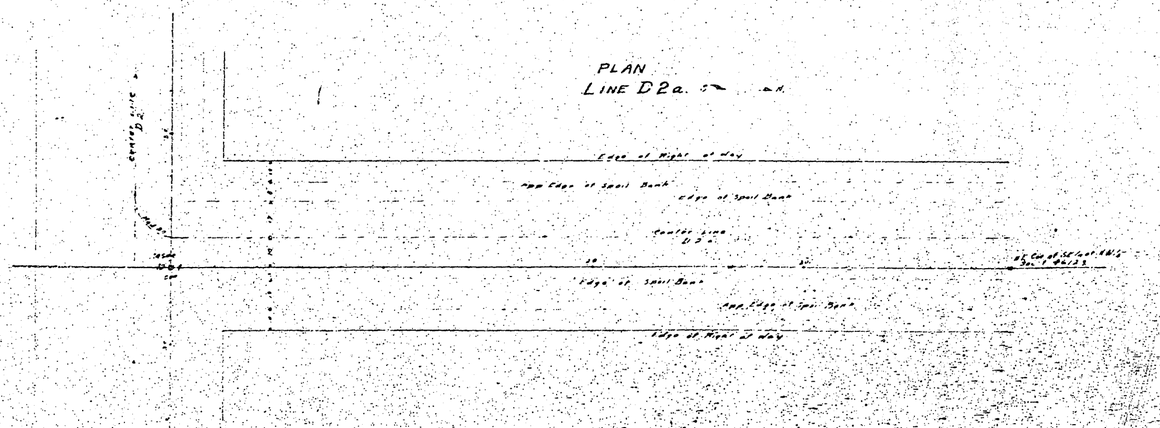
n = .0030 c = 45
Side slope 2:3

HYDRAULIC PROPERTIES.

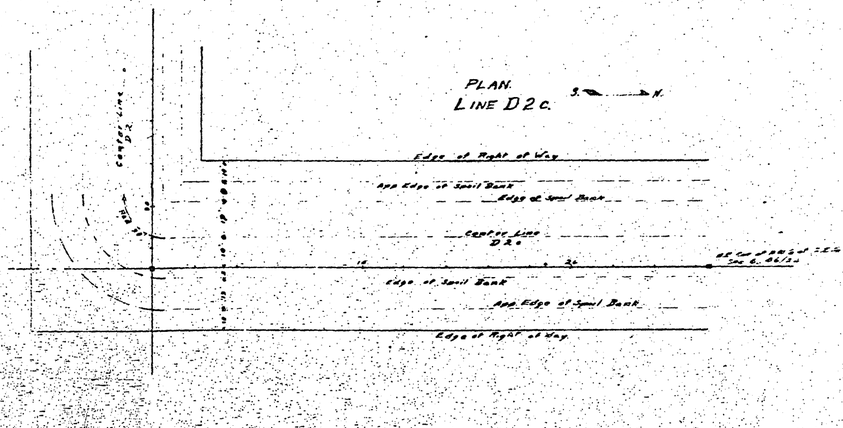
S.	.000595
F.D.	3.
B.W.	4.
A.	18.
W.P.	~~11.35~~ 15.2
H.R.	~~1.39~~ 1.61
V	~~1.47~~ 1.58
Cap.	~~25.4~~ 28.4

n = 0.030 c = 49.57
Side slope 2:3

PLAN
LINE D2a.



PLAN.
LINE D2c.



IONA DRAINAGE DISTRICT

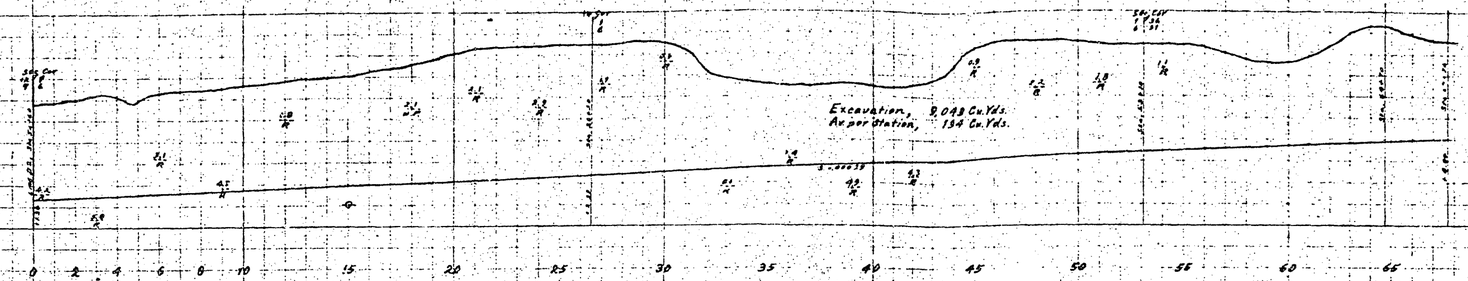
Lee County, Florida.

A. L. White
Chief Engineer

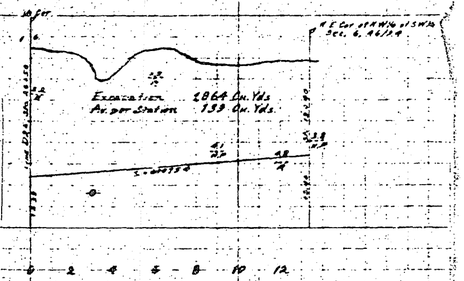
Folio B.
Sheet 19

Hor. Scale 1"=400'
Vert. Scale 1"=4'

PROFILE
LINE D2 b.



PROFILE
LINE D2 b1.



HYDRAULIC PROPERTIES.

S.	.00039
F.D.	3.
B.W.	4'
A.	18.
W.P.	13.94 11.2
H.R.	1.29 1.61
V.	1.18 1.27
Cap.	21.5 23.

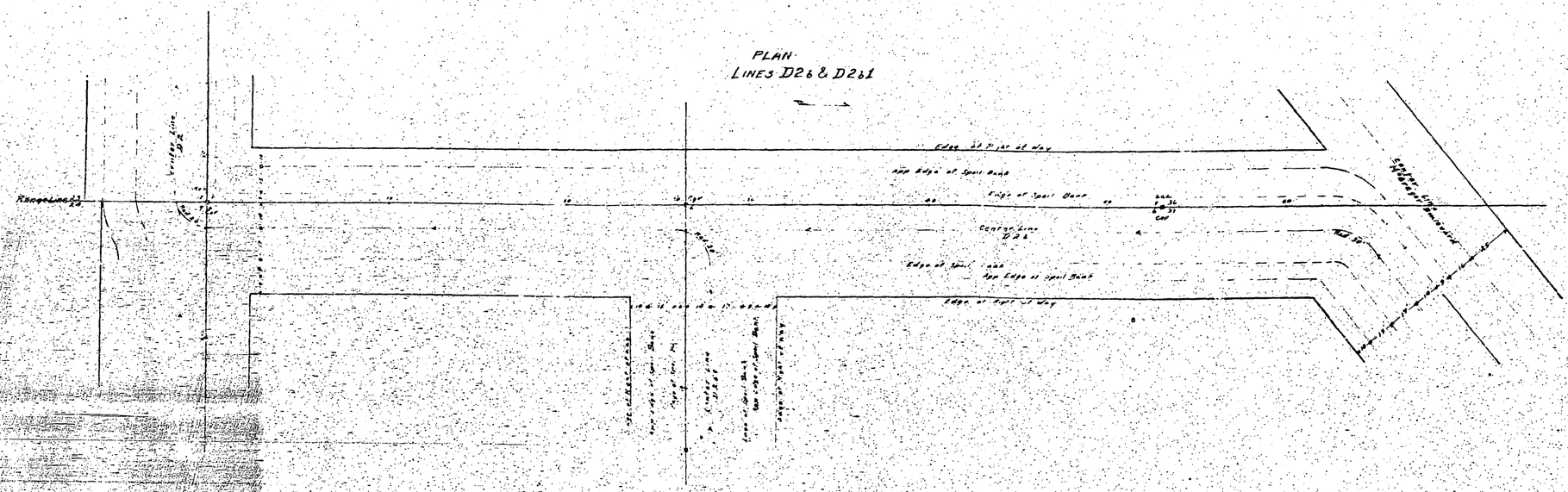
n=.0030 C=123 ±
Side slope 2:3

HYDRAULIC PROPERTIES.

S.	.00754
F.D.	1.4
B.W.	4.
A.	6.90
W.P.	7.34
H.R.	0.94
V.	1.17
Cap.	8.10

n=.0238 C=44.1
Side slope 2:3.

PLAN
LINES D2 b & D2 b1



IONA DRAINAGE DISTRICT.

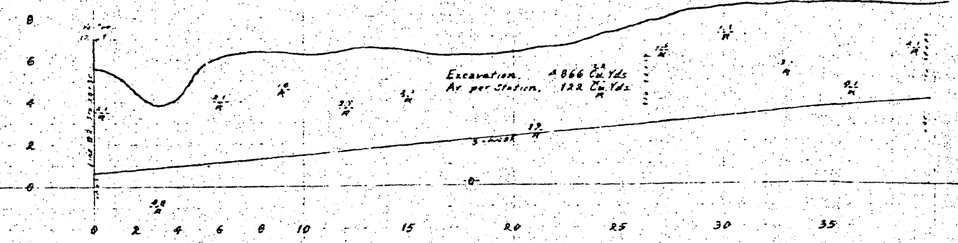
Lee County, Florida.

A. L. White,
Chief Engineer

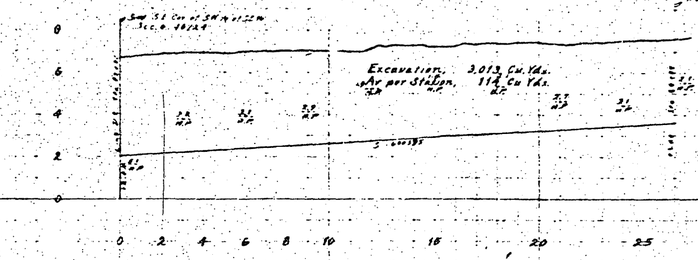
Hor. Scale 1" 400
Vert Scale 1" 4'

Folio B
Sheet 18

PROFILE
LINE D 2a.



PROFILE
LINE D 2c.



HYDRAULIC PROPERTIES.

S	.00085
F.D	1.5
B.W	4.
A	7.50
W.P	7.60
H.R	0.99
V	1.30
Cap	9.75

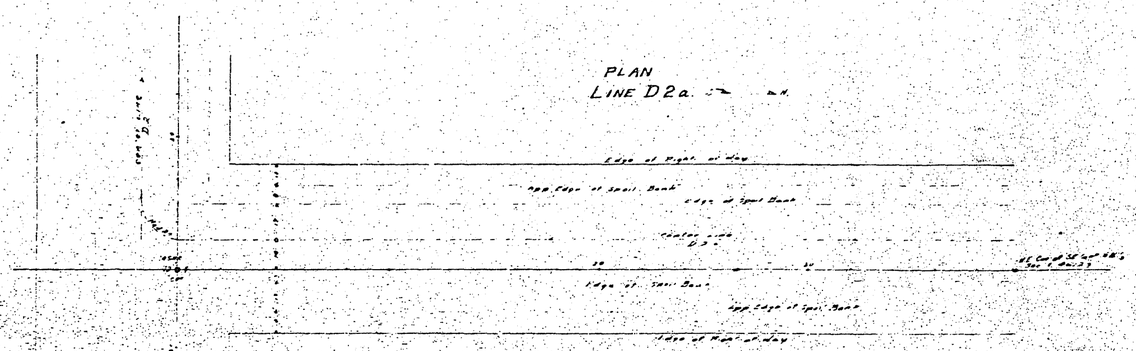
n = 0.030 c = 45.
Side slope 2:3.

HYDRAULIC PROPERTIES.

S	.000595
F.D	3.
B.W.	4.
A	19.
W.P	~~14.94~~ 11.2
H.R.	~~1.239~~ 1.61
V	~~1.647~~ 1.58
Cap.	~~25.09~~ 29.4

n = 0.030 c = 49.57
Side slope 2:3

PLAN
LINE D2a.



PLAN.
LINE D2c.

