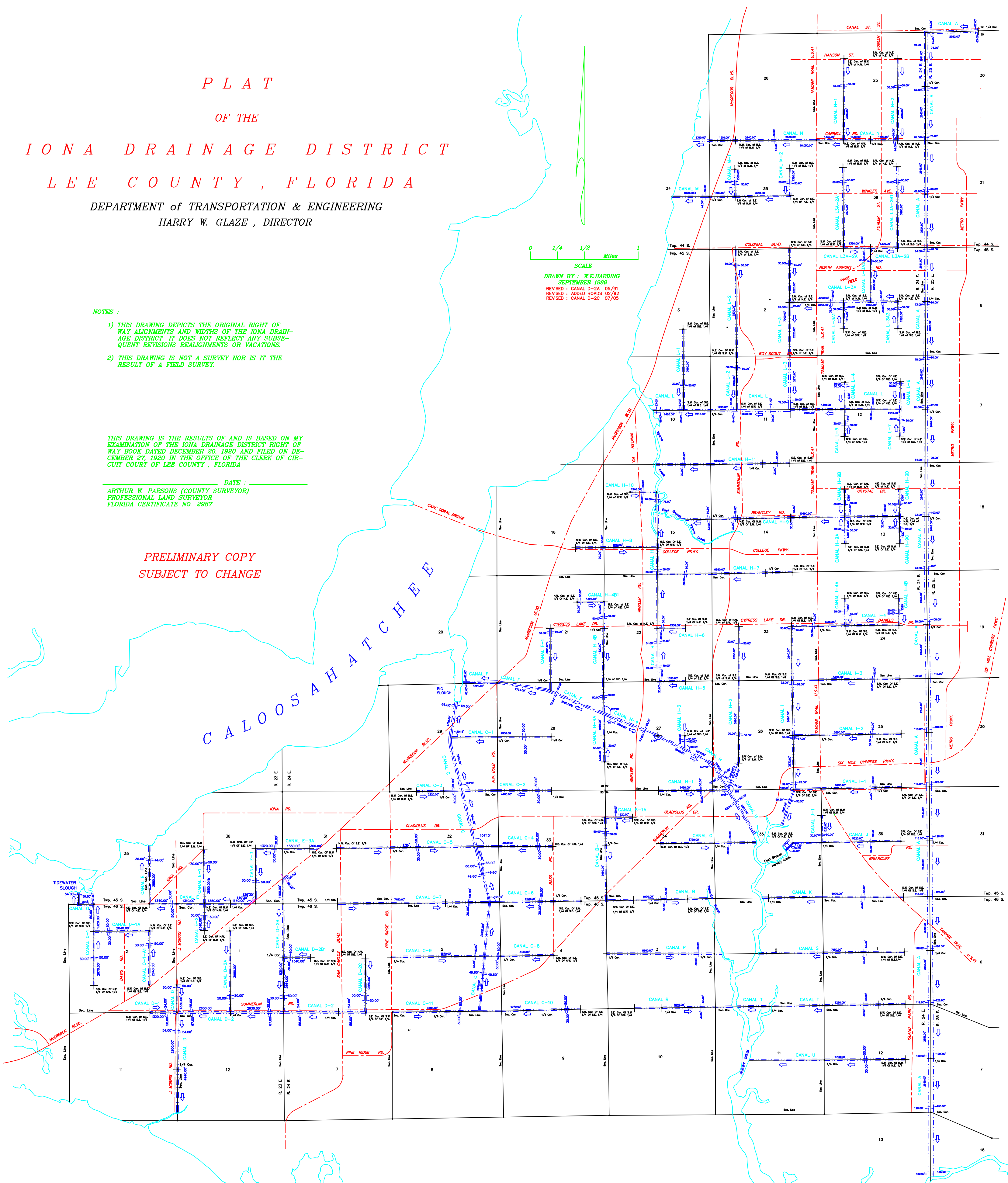


DEPARTMENT of TRANSPORTATION & ENGINEERING
HARRY W. GLAZE , DIRECTOR

- 1) THIS DRAWING DEPICTS THE ORIGINAL RIGHT OF WAY ALIGNMENTS AND WIDTHS OF THE IONA DRAINAGE DISTRICT. IT DOES NOT REFLECT ANY SUBSEQUENT REVISIONS REALIGNMENTS OR VACATIONS.
- 2) THIS DRAWING IS NOT A SURVEY NOR IS IT THE RESULT OF A FIELD SURVEY.

DATE : _____
ARTHUR W. PARSONS (COUNTY SURVEYOR)
PROFESSIONAL LAND SURVEYOR
FLORIDA CERTIFICATE NO. 2987

PRELIMINARY COPY
SUBJECT TO CHANGE



Fort Myers, Florida,
December 27, 1920.

Board of Supervisors,
Iona Drainage District,
Fort Myers, Florida.

Gentlemen:

I hereby submit this report of surveys and studies of the Iona Drainage District, and the plan of reclamation.

Surveys were begun December 1916. Special effort was made to secure sufficient data to project a reasonably accurate topographical map, upon which the plan of reclamation is largely based.

GENERAL FEATURES

The Iona Drainage District comprises 24,135.52 acres according to U.S. Government Survey, in Townships forty-four south (44S), Range Twenty-four east (24E), forty-five south (45S), twenty-three east (23E), forty-five south (45S), twenty-four east (24E), forty-six south (46S), twenty-three east (23E), forty-six south (46S), twenty-four east (24E), as indicated on plat herewith submitted.

The general location of the District may be described as including most of the lands south of the corporation limits of the City of Fort Myers; the bays and inlets of the Gulf of Mexico on the south and the Caloosahatchee River on the West, and the meridian running one mile east of the Tamiami Trail of the Dixie Highway; excepting only a small area is included between the Caloosahatchee River and the McGregor Boulevard.

TOPOGRAPHY & HYDROGRAPHY:

The elevations vary from about 16 feet at the north-east portion of the District and slopes in a generally southwesterly direction to elevation zero, which is mean low tide of the Gulf of Mexico.

There are no well defined water channels except the mouths of Wyoma Creek emptying into the Caloosahatchee River, and Hendry Creek emptying into Estero Bay, each of which extends into the District a distance of about one mile both of which are utilized as outlets for certain drainage ditches.

There are no lakes but a considerable number of shallow cypress ponds, practically all of which will be drained by the proposed plan of reclamation.

SOIL AND VEGETATION:

About 80% of the lands are pine-palmetto and about 20% cypress heads and strands. There is no prairie land. The soil is first class Florida sandy loam, generally underlaid with shell

Filed this 27th day of Dec
1920
J. B. Garner
Clerk Circuit Court
B. C.

marl (calcareous marl) with a small quantity of yellow clay underlying the marl. Some of these cypress strands contain lily ponds and deposits of valuable muck. A small acreage is underlaid with what is known as hardpan. Some of the cypress heads are bordered by an outcrop of limestone rock from 8 to 14 inches thick. The marl and hardpan is generally from 2 to 4 feet beneath the surface.

GROVES AND TRUCK:

The District contains about 60 acres of bearing grapefruit and orange groves and about 1120 acres of young citrus groves from two to six years old. Last season approximately 450 acres were planted in truck, principally peppers. This season about 450 acres are planted in truck, mostly peppers, but also eggplant and tomatoes. The soil and climatic conditions have proved so favorable for citrus culture and truck that the object of the owners of land in this District is to efficiently drain the lands in order that most of the area can be devoted to citrus and truck. This District comprises some of the best pepper lands in the State, due largely to the fact, that to a very great degree, it is practically exempt from killing frost, and to the further fact, that an abundance of artesian water is available at depths varying from 450 to 750 feet. I consider that this District is the most promising for the growing of truck in Florida. The same conditions also are ideal for citrus culture.

TRANSPORTATION:

The lands embraced in this District are from one to thirteen miles from the Southern Terminus of the Atlantic Coast Line Railway, in the City of Fort Myers. Two hard surfaced roads extending through the District furnish easy transportation to Fort Myers, namely the Tamiami Trail of the Dixie Highway which traverses the eastern portion of the District, and the McGregor Boulevard the western. Numerous docks line the banks of the Caloosahatchee River, which furnishes cheap water transportation.

ENGINEERING PLANS:

A study of the topographical map supplemented by observations in the field, both within and without the District, easily establishes the fact, that the District received the run-off from an area about twice that of the District itself. Evidently the first consideration was to protect the lands within the Drainage District from overflow from the lands east and northeast, embracing some 35,000 to 40,000 acres; accordingly the plan of reclamation provides a diversion ditch and levee designated as line "A" on plan. This ditch and levee extends along the entire east side of the District, and discharges the waters into Mullock Creek. The only remaining problem then consists in providing means for taking care of the water originating within the District.

In designing details of the plan of reclamation, the co-efficient of run-off of one inch per 24 hours was used, but the actual run-off provided for small areas is from 2 to 3 inches, as a minimum bottom width of 4 feet, is adopted for all ditches,

As the District is comparatively small and will be intensely cultivated, it was considered best to adopt a run-off co-efficient of 1 inch instead of .60 to .80 as is frequently used when large areas are under consideration and the purpose is more particularly to render the acreage suitable for grazing and general farming.

Ditch sections are based upon Kutter's formula, using a friction co-efficient of .030; maximum velocities are limited theoretically to 1.50 feet per second, which however, would be increased somewhat by an unusually heavy downpour, especially if long continued. The reason for limiting the theoretical velocities

to 1.50 feet per second is largely due to the fact that the bottom of many ditches will be in sand, and the additional cost of construction would be justified by decreases of cost of maintenance. The plan provides for retarding flow by construction of riffles or inclines in some of the ditches. I also propose to utilize certain tidal estuaries as outlets. It is very desirable that the ditches carry the minimum of solid matter, in order to prevent, or at least lessen the tendency of silting up these tidal outlets.

The plan of reclamation provides drainage outlets for each 40 acre tract, each of which is either on a main or lateral ditch, or is reached by a spur or stub.

The average depth of the laterals is about 5 feet, varying from $4\frac{1}{2}$ to $5\frac{1}{2}$ feet. The depth of the flow is about 3 feet. All sections have been calculated on basis of 2 to 3 average side slopes

It is not claimed that the plan of reclamation will be ample for storms of unusual intensity, which would overflow some of the ditches, thereby causing more or less damage. These maximum storms do not occur every year but at irregular intervals, usually many years apart. The excessive cost of a system designed to provide for maximum storms would not be economically justifiable. I believe that the plan of reclamation provides ample protection for all interest and is indeed more complete than the usual design.

Next in importance to the construction of the system itself is its proper maintenance. In designing the system the problem of maintenance was constantly under consideration. It is economical to increase somewhat the cost of construction if thereby the cost of maintenance is substantially decreased. Farm ditches should only be connected according to plan of engineer in charge. All damage should be promptly repaired and obstructions removed, in order that the theoretical capacity of all ditches are constantly maintained.

"The miner can see no farther than his pick". No engineer can accurately foretell all subsurface conditions. While it is proposed to execute the work in accordance with these plans, nevertheless it is desirable both for economic and engineering reasons to modify the details to meet the actual conditions encountered. The relation of side-slopes, gradients, width of ditches and depth of flow are such that they can usually be slightly modified to meet requirements of subsurface conditions. This is contemplated in the execution of these plans.

Respectfully submitted by



Drainage Engineer.

TABULATIONS AND ENCLOSURES:

TABULATION "A" This presents plans and properties of all ditches showing location, right-of-way, grade, depth, capacity and hydrolic features; also plans of inclines, bridges, culverts and intakes.

TABULATION "B" This presents a list of all ditches, giving length and yardage.

TABULATION "C" This gives estimate of cost.

TABULATION B

Ditch	Length (feet)	Excavation (Cu. Yds)
A	58,482	295,952
B	4,970	6,469
B 1	3,980	5,716
B 1 a	1,320	1,698
C	15,220	61,486
C 1	4,950	6,769
C 2	4,400	6,350
C 3	2,220	3,575
C 4	3,800	5,348
C 5	6,780	9,514
C 6	4,490	5,420
C 7	7,450	11,272
C 8	3,410	3,462
C 9	4,570	5,078
C 10	4,370	4,241
C 11	4,280	4,351
D	6,270	19,396
D 1	1,330	1,641
D 2	9,250	14,807
D 2 a	3,980	4,866
D 2 b	6,760	9,043
D 2 b 1	1,340	1,864
D 2 c	2,650	3,013
E	7,990	10,103
E 1	2,640	3,585
E 2	1,340	2,265
E 3	2,710	4,199
E 3 a	3,050	3,868
F	7,200	43,550
F 1	3,120	4,126
G	4,720	7,377
H	16,250	89,499
H 1	3,450	4,594
H 2	8,030	10,823
H 3	600	868
H 4	2,870	16,171
H 4 a	2,370	3,354
H 4 b	5,480	7,648
H 4 b 1	1,320	1,572
H 5	1,300	1,592
H 6	1,350	1,689
H 7	6,500	8,758
H 8	4,010	5,729
H 9	10,690	19,041
H 9 a	1,310	1,689
H 9 b	1,330	1,727
H 9 c	1,320	1,546
H 9 d	1,330	1,765
H 10	1,340	1,611
H 11	6,500	9,102

TABULATION B

Ditch	Length (feet)	Excavation(Cu Yd)
I	9,820	29,592
I 1	5,290	7,229
I 2	5,300	7,437
I 3	5,300	8,249
I 4	5,280	7,437
I 4 a	1,320	1,827
I 4 b	1,320	1,692
J	5,840	8,128
J 1	1,320	1,438
K	6,970	8,667
L	12,050	50,708
L 1	3,980	5,205
L 2	7,870	11,129
L 3	7,900	20,685
L 3 a	5,310	11,946
L 3 a 1	1,310	2,118
L 3 a 2	2,650	4,454
L 3 a 2 A	1,330	1,733
L 3 a 2 A 1	3,970	4,679
L 3 a 2 B	1,320	1,848
L 3 a 2 B 1	3,980	5,275
L 3 a 3	1,330	2,046
L 4	1,330	1,869
L 5	1,310	2,033
L 6	1,320	1,993
L 7	1,320	1,833
M	5,780	8,003
M 1	1,330	1,780
M 2	1,320	1,607
N	10,050	16,120
N 1	3,980	5,725
N 2	3,980	5,273
O	1,340	2,258
O 1	3,990	5,414
O 1 a	2,650	3,092
O 1 a 1	2,640	2,963
P	5,660	7,070
R	4,840	5,060
S	7,150	11,170
T	8,250	7,584
U	7,700	5,818
Cut-off	<u>1,640</u>	<u>29,388</u>

457,582 feet or 1,088,937 Cu. Yds

86.6 Miles Cost \$189,845.28

CHAPTER 28456
(Senate Bill No. 633)

AN ACT Providing for the Dissolution of Iona Drainage District in Lee County, Florida; Cancelling All Tax Liens Which Have Not Merged Into Fee Title By Foreclosure Sales or Otherwise; Providing for the Assignment of Easement Rights of Said District to Lee County, Florida; Discharging and Relieving the Supervisors of All Further Duties After Dissolution; Fixing a Statute of Limitations Against the Presentation and Payment of Outstanding Debts of Said District and Providing that After the Lapse of Six Months No Action Shall Be Brought or Instituted Upon Any Debt of Said District; and Repealing All Laws in Conflict Herewith.

WHEREAS, all bonds, notes and other obligations of Iona Drainage District have been paid, satisfied and cancelled, and said District has served the purpose for which it was originally organized, and it is desirable that said District be dissolved and its affairs wound up, therefore;

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA:

Section 1. Iona Drainage District, in Lee County, Florida, is hereby dissolved and abolished.

Section 2. All tax levies and tax liens and/or claims of said District, inclusive of but not limited to, benefit assessments, total taxes, maintenance taxes, outstanding annual district taxes or assessments and certificates evidencing same, which have not merged into fee title by foreclosure sales or otherwise, are hereby cancelled.

Section 3. All easement rights owned by said District are hereby assigned to Lee County, Florida.

Section 4. All books and records of said District shall be deposited in the office of the Clerk of the Circuit and by him properly filed among the public records of said county, Court of Lee County, Florida, and upon application of any owner, lien holder or other interested party, the Clerk of said Circuit Court shall cancel all tax liens of said District on said books and records in his custody.

Section 5. The Board of Supervisors, and all other officers and agents of said District, are hereafter discharged and relieved of any and all further liability and responsibility for the performance of any duties incident to the operation or management of the affairs of said District.

Section 6. After the lapse of six months from the date this Act becomes a law, no action shall be brought or instituted upon any bond, interest coupon, bond credit, certificate of indebtedness, note or any other debt, claim or liability outstanding, due or owing by said Iona Drainage District on the date this Act becomes a law.

Section 7. All laws and parts of laws in conflict herewith are hereby repealed.

Section 8. This Act shall take effect upon its passage and approval by the Governor, or upon its becoming a law without such approval.

Became a law without the Governor's approval.

Filed in Office Secretary of State May 25, 1953.

State of Florida



Office of Secretary of State

J. R. A. Gray, Secretary of State of the State of Florida,
do hereby certify *that the above and foregoing is a true and correct copy of*

Chapter 28456, Laws of Florida, Acts of 1953, as filed in
this office.

*Given under my hand and the Great Seal of
the State of Florida at Tallahassee, the Capital,
this the 26th day of May
A. D. 19 53.*



J. R. A. Gray
Secretary of State

REPORT
OF THE
CHIEF ENGINEER
IONA
DRAINAGE
DISTRICT

272
W. H. Myers
Dec 20 1920

Created by Case #1223
Civil file
see Incorporation Bk 2 pages 202-203

DEC. 20, 1920

A. L. WHITE, C.
FORT MYERS, FLORIDA

Explanation of
HYDRAULIC PROPERTIES.
S. = slope = $\frac{\text{vertical drop}}{\text{horizontal distance}}$
F.D. = Flow Depth, assumed to be maximum for the velocity of the ditch in question.
B.W. = Bottom Width.
A. = Cross section Area at Body of water for a given depth.
W.P. = Wetted Perimeter or B.W. + length of the 2 sides to the surface of the water.
H.R. = Hydraulic Radius or $\frac{A}{W.P.}$
V. = Velocity (feet per sec.) from $V = C \sqrt{R S}$
n. Coefficient of Roughness
 $C = \frac{48.3}{n} = \frac{48.3 \times 4.49}{n} = \frac{215.76}{n}$
Cap. = Capacity of Ditch or Canal at given F.D.

SOUNDINGS
Soundings taken at 50 ft. intervals near the center line of ditches or canals and noted directly on profiles showing material struck and depth below surface.
Signs & Symbols:
R. Rock (usually limestone)
M. Shell Muds
S. Sand, quick, compacting solidly below point of sounding rod
-0- No bottom at 5 ft. depth.

Location Index.

Tp.	Rye.	Sec.	Sheet No.
44	24	24	6
		25	5, 6, 49 & 50
		26	49
		27	49
		28	48 & 49
		29	48 & 49
		30	5, 45 & 46
44	25	19	0
		30	5 & 6
		31	5
45	23	35	20 & 51
		36	20 & 51
45	24	1	4, 5, 44, 45 & 46
		2	42, 43 & 44
		3	41
		10	33, 40 & 41
		11	40 & 42
		12	4, 40, 41, 46 & 47
		13	3, 4, 31 & 32
		14	29, 31 & 33
		15	25, 29, 30, 31 & 32
		16	30
		20	22
		21	22 & 28
		22	24, 25, 28 & 29
		23	26, 29, 34, 36 & 37
		24	3, 36 & 37
		25	2, 3, 35 & 36
		26	23, 24, 26, 34, 35 & 36
		27	23, 24, 26, 27 & 28
		28	3, 22, 27 & 28
		29	20, 9 & 10
		30	11, 13 & 21
		32	20, 21, 9, 10, 11, 12 & 13
		33	7, 9, 10, 12
		34	7, 2, 23
		35	23, 24, 34, 35, 38 & 39
		36	2, 35, 38, & 39
45	25	6	4 & 5
		7	4
		10	3 & 4
		19	3
		30	2 & 3
		31	2
46	23	1	16, 17, 18, 19, 20 & 21
		2	16, 20, 51 & 52
		11	10
		12	16 & 17
46	24	1	1, 2, 39, 55 & 56
		2	39, 53, 54, 55 & 56
		3	7, 53 & 54
		4	7, 12, 14 & 15
		5	20, 21, 12, 13, 14 & 15
		6	12, 18 & 19
		7	15
		8	15
		9	15
		10	54
		11	54, 56 & 57
		12	1, 56 & 57
46	25	6	1 & 2
		7	1
		10	1

INDEX.

Sheet No.	Line	Location
1	A	Sta. 0 to 110
2	A	Sta. 110 to 220
3	A	Sta. 220 to 330
4	A	Sta. 330 to 440
5	A	Sta. 440 to 550
6	A	Sta. 550 to 587 + M
7	B, B1 & B1a	Sta. 0 to 110
8a	C	Sta. 110 to 152 + 20
8b	C	Sta. 110 to 152 + 20
9	C1 & C2	Sec. 32 of 45/24 and Sec. 5 of 46/24
10	C3 & C4	Sec. 28, 29, 32 & 33 of 45/24
11	C5	Secs. 29, 32 & 33 of 45/24
12	C6	Secs. 31 & 32 of 45/24
13	C7	Secs. 32 & 33 of 45/24 and Sec. 4 of 46/24
14	C8 & C9	Secs. 31 & 32 of 45/24 and Sec. 5 of 46/24
15	C10 & C11	Secs. 4 & 5 of 46/24
16	D & D1	Secs. 1, 2, 11 & 12 of 46/23
17	D2	Secs. 1 & 12 of 46/23 and 6 & 7 of 46/24
18	D2a & D2c	Sec. 1 of 46/23 and Sec. 6 of 46/24
19	D2b & D2b1	Sec. 1 of 46/23 and Sec. 6 of 46/24
20	E & E1	Secs. 35 & 36 of 45/23 and Secs. 1 & 2 of 46/23
21	E2, E3 & E3a	Sec. 36 of 45/23, Sec. 31 of 45/24 and Sec. 1 of 46/23
22	F & F1	Secs. 20, 21 & 28 of 45/24
23	G & H1	Secs. 20, 27, 29 & 35 of 45/24
24	H	Sta. 0 to 110
25	H	Sta. 110 to 188 + 80
26	H2 & H3	Secs. 15 & 22 of 45/24
27	H4 & H4a	Secs. 23, 26 & 27 of 45/24
28	H4b, H4b1 & H5	Secs. 27 & 28 of 45/24
29	H6 & H7	Secs. 21, 22, 27 & 28 of 45/24
30	H8	Secs. 14, 15, 22 & 23 of 45/24
31	H9	Secs. 15 & 16 of 45/24
32	H9a, b, c, d & H10	Secs. 13, 14 & 15 of 45/24
33	H11	Secs. 15 & 15 of 45/24
34	I	Secs. 10, 11, 14 & 15 of 45/24
35	I1 & I2	Secs. 23, 26 & 35 of 45/24
36	I3	Secs. 25, 26, 35 & 36 of 45/24
37	I4, I4a & I4b	Secs. 23, 24, 25 & 26 of 45/24
38	J & J1	Secs. 23 & 24 of 45/24
39	K	Secs. 35 & 36 of 45/24 and Secs. 1 & 2 of 46/24
40	L	Sta. 0 to 110
41	L	Sta. 110 to 120 + 50 & L1
42	L2	Secs. 3, 10 & 12 of 45/24
43	L3	Secs. 2 & 11 of 45/24
44	L3a, L3a1 & L3a2	Secs. 2 & 11 of 45/24
45	L3a2A, L3a2A1 & L3a2B	Sec. 36 of 44/24 and Sec. 1 of 45/24
46	L3a2B1, L3a3, L4	Sec. 36 of 44/24 and Sec. 1 of 45/24
47	L5, L6 & L7	Sec. 12 of 45/24
48	M, M1 & M2	Secs. 34 & 35 of 44/24
49	N	Secs. 45, 26, 27, 34, 35 & 36 of 44/24
50	N1 & N2	Sec. 25, 44/24
51	O & O1	Sec. 35 of 45/23 and Sec. 2 of 46/23
52	O1a & O1a1	Sec. 2 of 46/23
53	P	Secs. 2 & 3 of 46/24
54	R	Secs. 2, 3, 10 & 11 of 46/24
55	S	Secs. 1 & 2 of 46/24
56	T	Secs. 1, 2, 11 & 12 of 46/24
57	U	Secs. 11 & 12 of 46/24
58	CONCRETE CULVERTS	Tamiami Trail.
59	RIP-RAP INCLINES	With Tabulation of Quantities.
60	CONCRETE BRIDGE	Intersection at Line C and M'Gregor Boulevard. (3 sheets)
61	CONCRETE CULVERT	Line F and M'Gregor Boulevard.
62	INTAKES	
63	TIMBER BRIDGE	Line A and Tamiami Trail.

H3 located Road 81-6-13
of 1524/527

IONA DRAINAGE DISTRICT

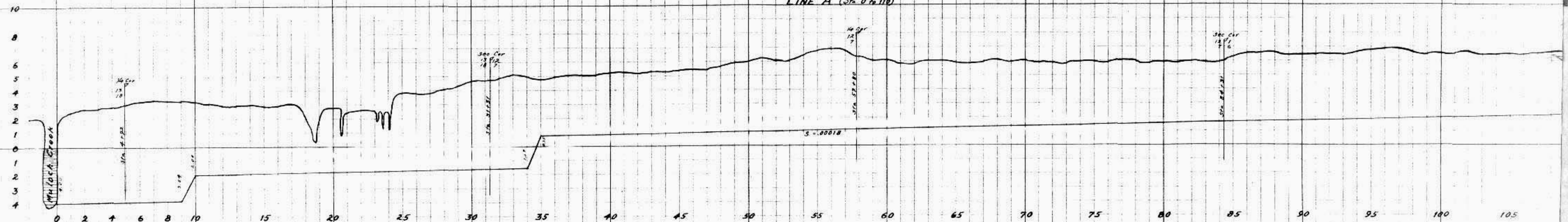
Lea County, Florida.

A. L. WHITE
Chief Engineer.

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

Folio B
Sheet 1

PROFILE LINE A (Sta. 0 to 110)

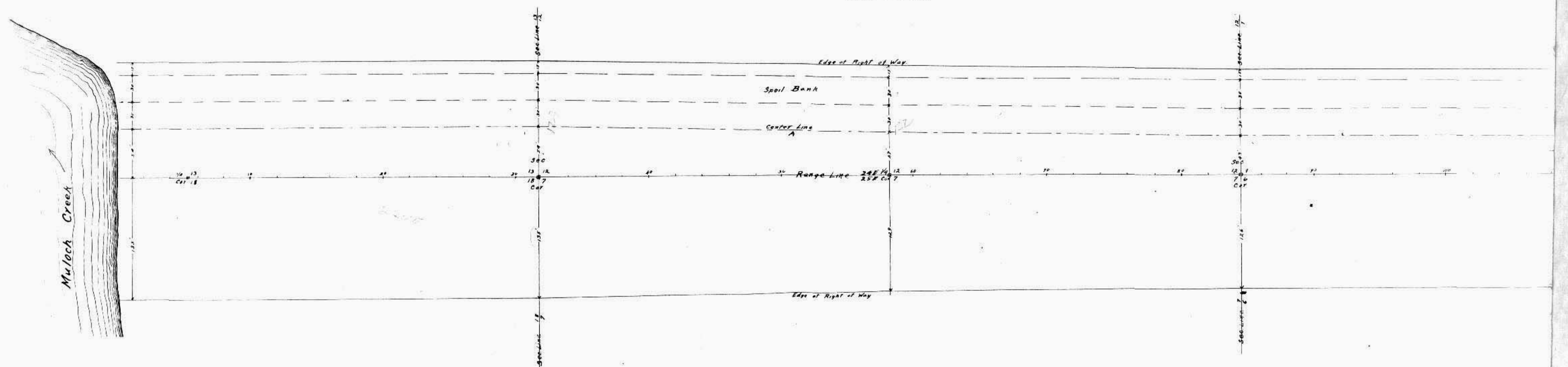


HYDRAULIC PROPERTIES

S	.00018
K _D	5
B.W.	20
A	1325
W.P.	38
H.P.	3.62
V	1.50
C ₁₀₀	204
M=0.030 C=61	
Side Slope 1/2 H 1	

PLAN LINE A, Sta. 0 to 110.

S → N

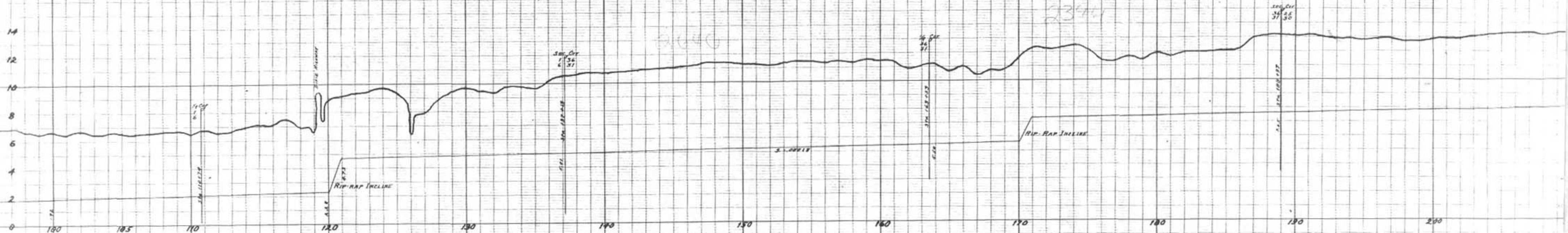


IONA DRAINAGE DISTRICT
Lee County, Florida
A.L. White
Chief Engineer

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

Folio B
Sheet 2

PROFILE
LINE A (Sta 100 to 210)



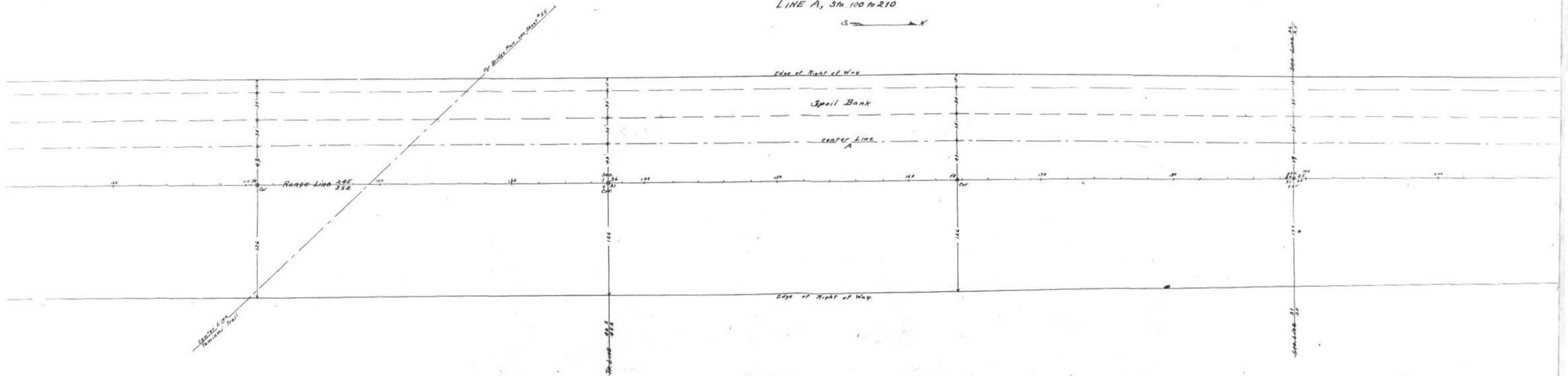
HYDRAULIC PROPERTIES

S	0.0018
FD	5
B.W.	20
A	137.5
W.P.	38
H.R.	3.62
V	1.50
Cut	206
M.O.D.	0.4
Side slope	1H:1V

Dec. 20, 1911
H.C.

PLAN
LINE A, Sta 100 to 210

Scale 1"=400'

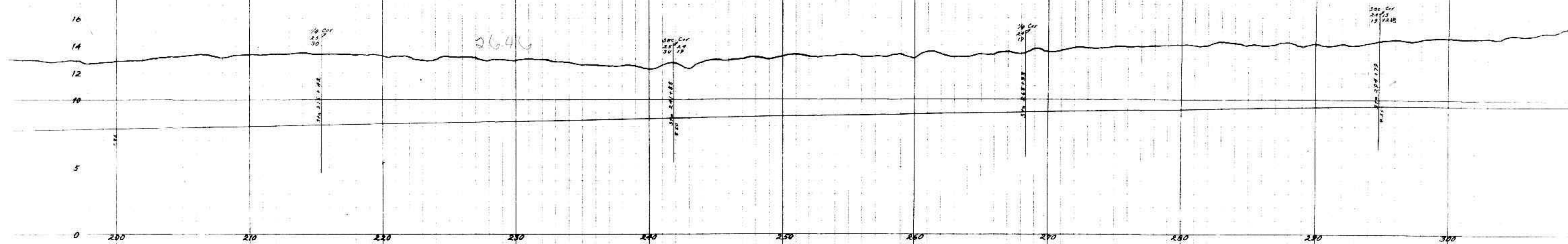


LONA DRAINAGE DISTRICT
 Lee County, Florida
 A.L. White,
 Chief Engineer

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

Folio B
 Sheet 3

PROFILE
 LINE A, (Sta. 200 to 310)



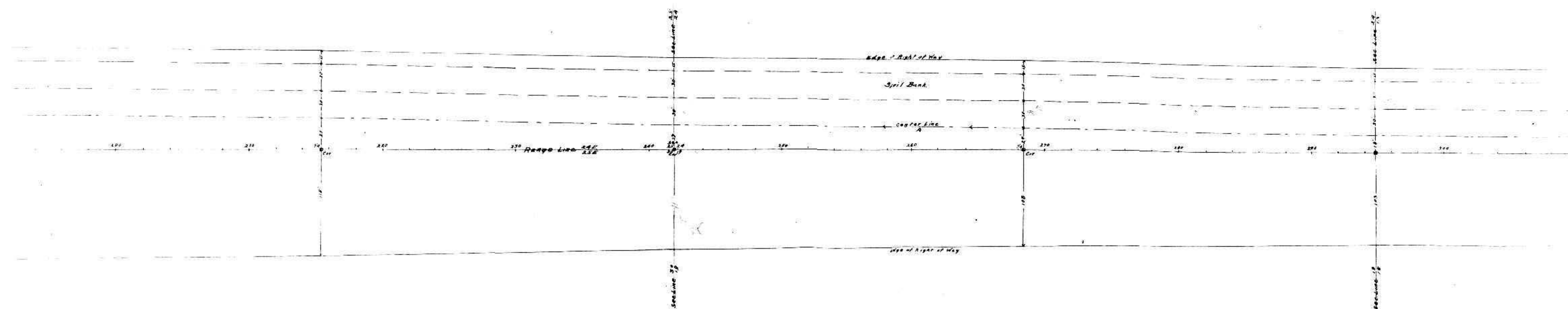
HYDRAULIC PROPERTIES.

S	0.0010
BW	20
FD	5
A	104
WP	38
H.R	3.62
V	1.50
Cap	206

n.s. 0.30 c.s. 61
 Side slope 1 1/2:1

PLAN
 LINE A, Sta 200 to 310

S ————— N



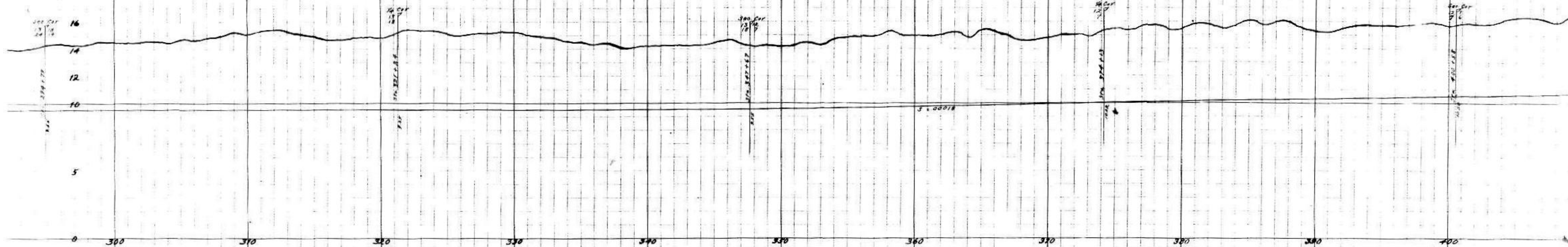
IONA DRAINAGE DISTRICT

Lee County, Florida

A.L. White
Chief Engineer

Horizontal Scale 1" = 400'
Vertical Scale 1" = 4'

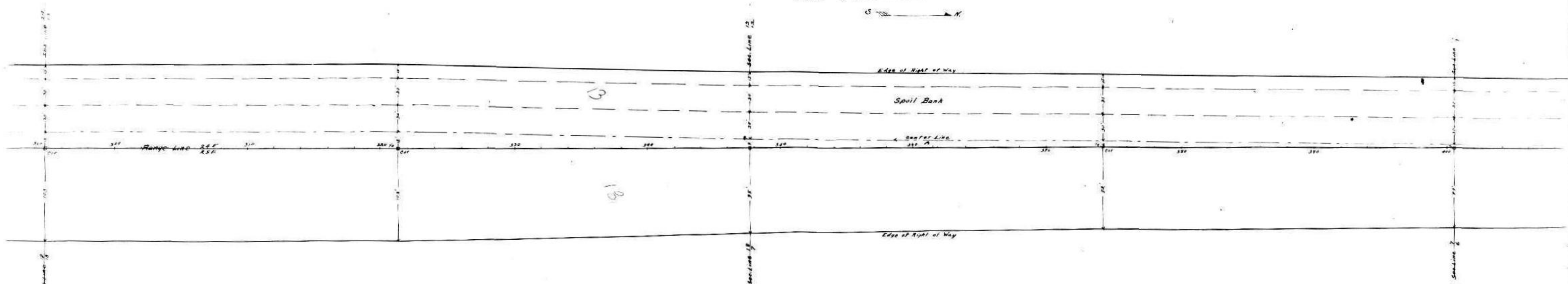
PROFILE LINE A (Sta. 300 to 410)



HYDRAULIC PROPERTIES

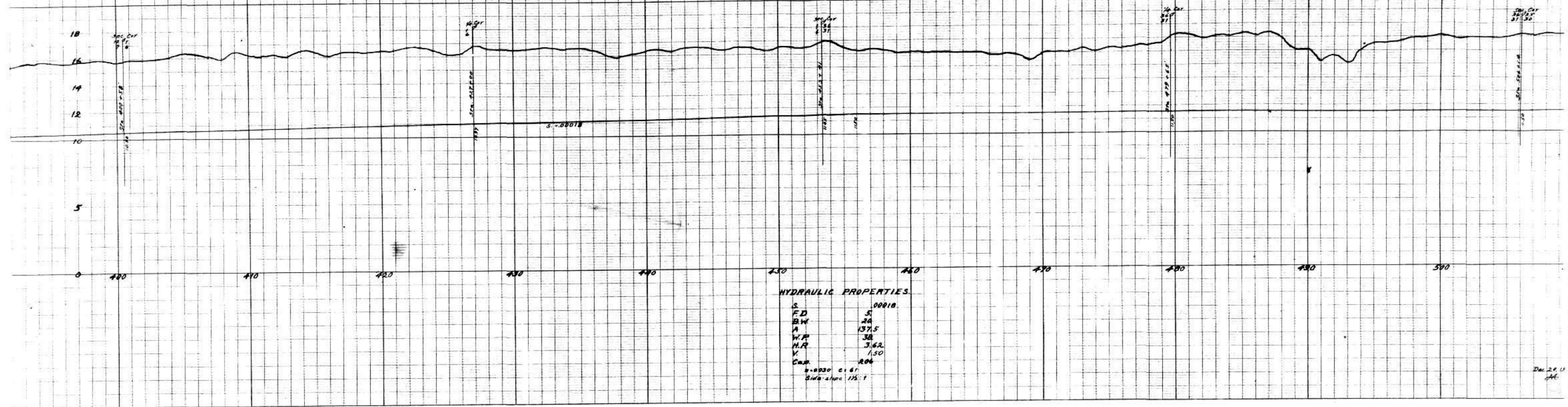
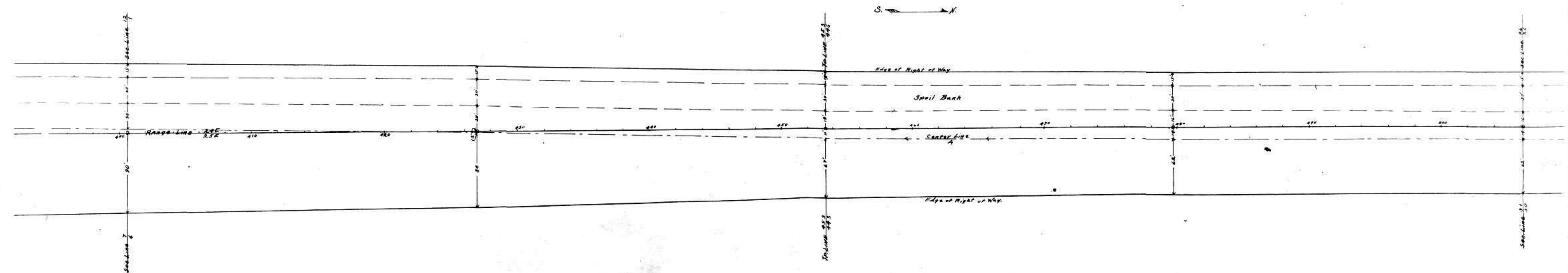
S.	0.0018
F.D.	5
B.W.	20
A.	137.5
W.P.	38
H.R.	3.62
V.	1.50
Q _{max}	204
H = 0.030 0.61	
Side slope 1 1/2:1	

PLAN LINE A, Sta. 300 to 410



IONA DRAINAGE DISTRICT

Lee County, Florida

A. L. White
Chief EngineerHor. Scale 1" = 400'
Vert. Scale 1" = 4'PROFILE
LINE A (Sta. 400 to 510)Folio B
Sheet 5PLAN
LINE A, Sta. 400 to 510

IONA DRAINAGE DISTRICT

Lee County, Florida

A. L. White
Chief Engineer

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

PROFILE LINE A (Sta. 500+00 to 504+02)

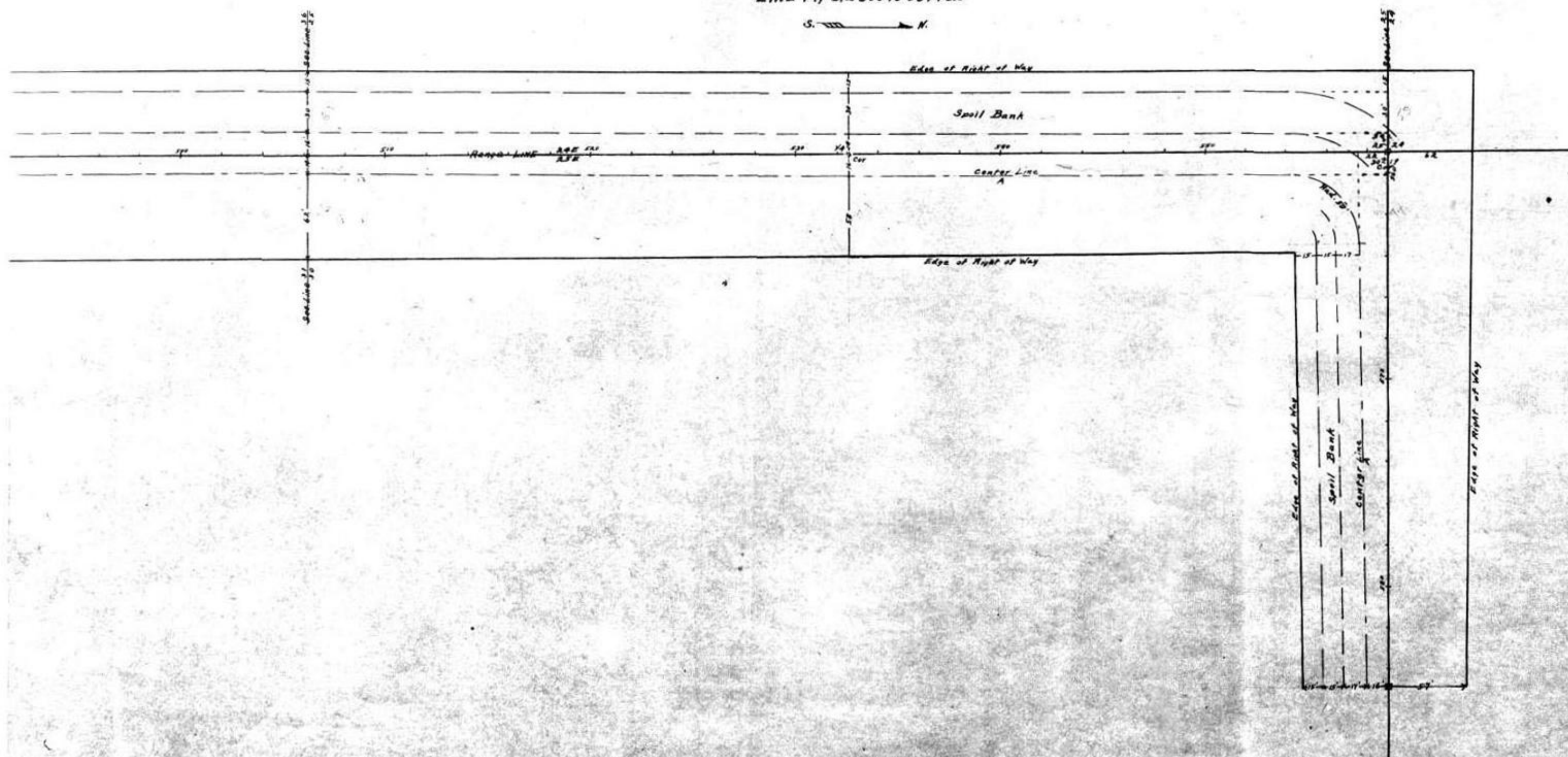


HYDRAULIC PROPERTIES

S	0.000425
F.D	3
B.W	4
A	18
W.P	11.22
H.A	161
V	1.02
Cut	2.62
H = 0.034 C = 55.5	
SMA slope 2:1	

PLAN LINE A, Sta. 500 to 504+02

S. N.



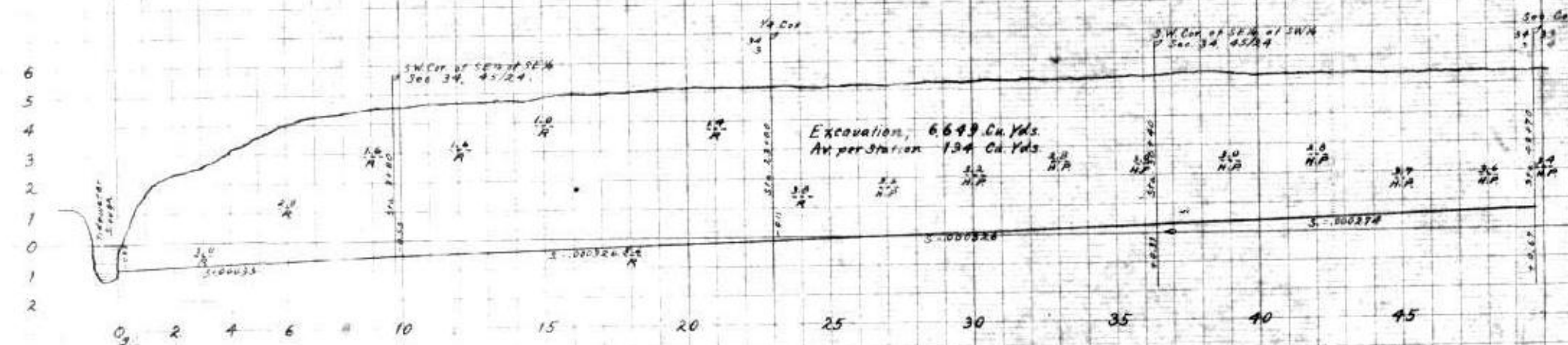
IONA DRAINAGE DISTRICT
Lee County, Florida

A.L. White,
Chief Engineer

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

Folio B
Sheet 7

PROFILE
LINE B



HYDRAULIC PROPERTIES

S	0.0035
FD	3
BW	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V	1.03 1.21
Cap	19.43 21.8
n	0.030 c. 40 51
Side-slope	2:3

HYDRAULIC PROPERTIES

S	0.00326
FD	3
BW	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V	1.03 1.21
Cap	19.43 21.8
n	0.030 c. 40 50
Side-slope	2:3

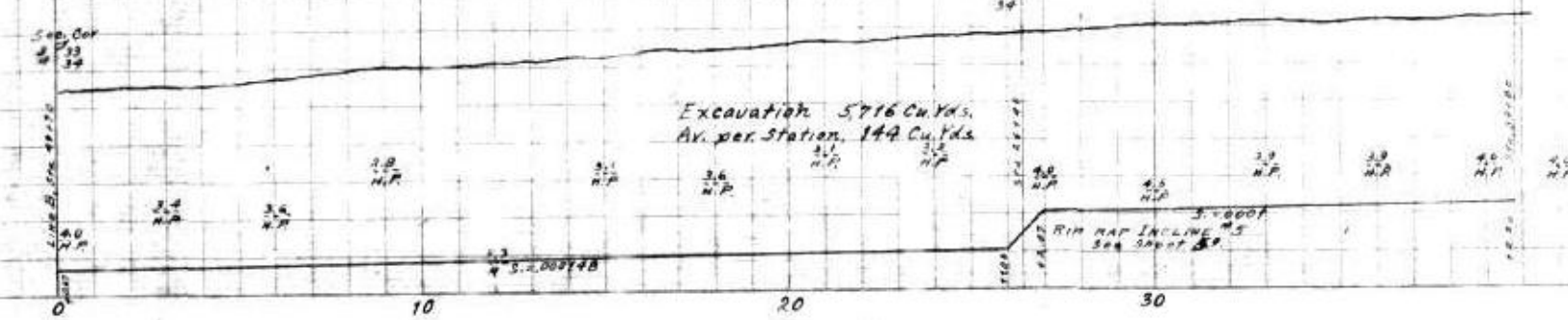
HYDRAULIC PROPERTIES

S	0.00274
FD	3
BW	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V	1.03 1.21
Cap	19.43 21.8
n	0.030 c. 40 50
Side-slope	2:3

HYDRAULIC PROPERTIES

S	0.00148
FD	3
BW	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V	1.03 1.21
Cap	19.43 21.8
n	0.030 c. 40 40
Side-slope	2:3

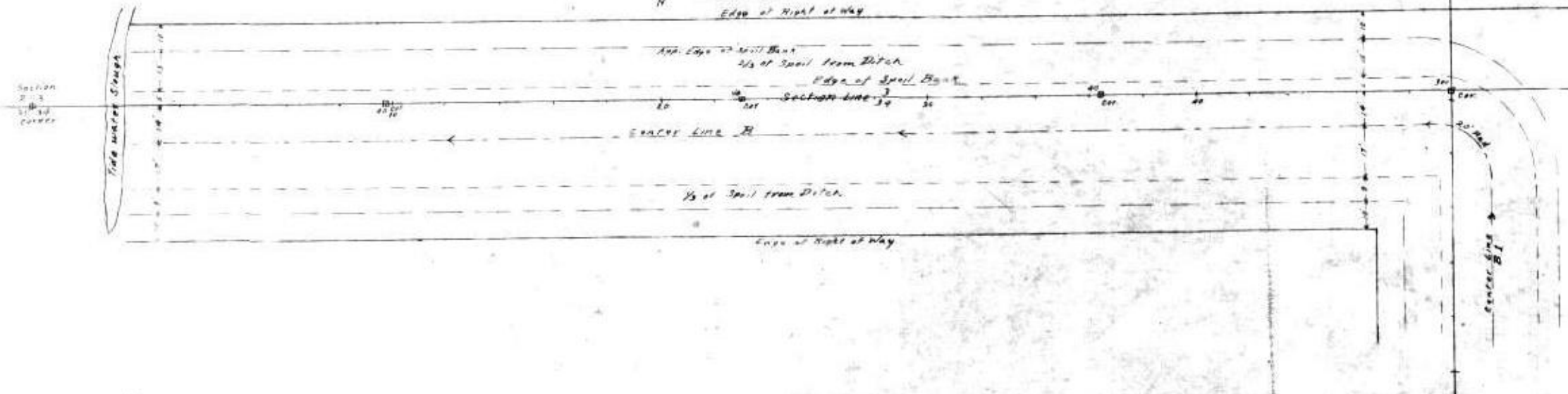
PROFILE
LINE B1



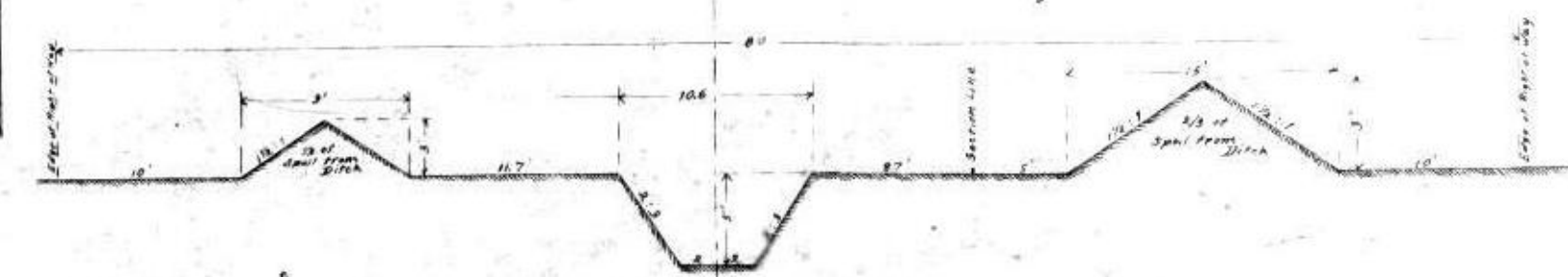
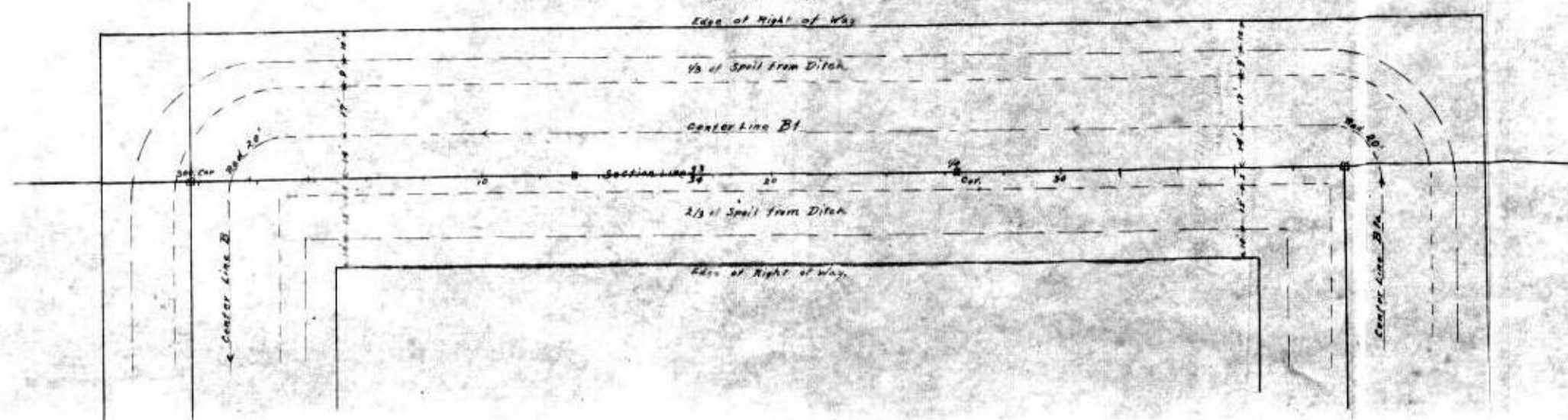
HYDRAULIC PROPERTIES

S	0.0001
FD	3
BW	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V	1.03 1.21
Cap	19.43 21.8
n	0.030 c. 40 40
Side-slope	2:3

PLAN
LINE B

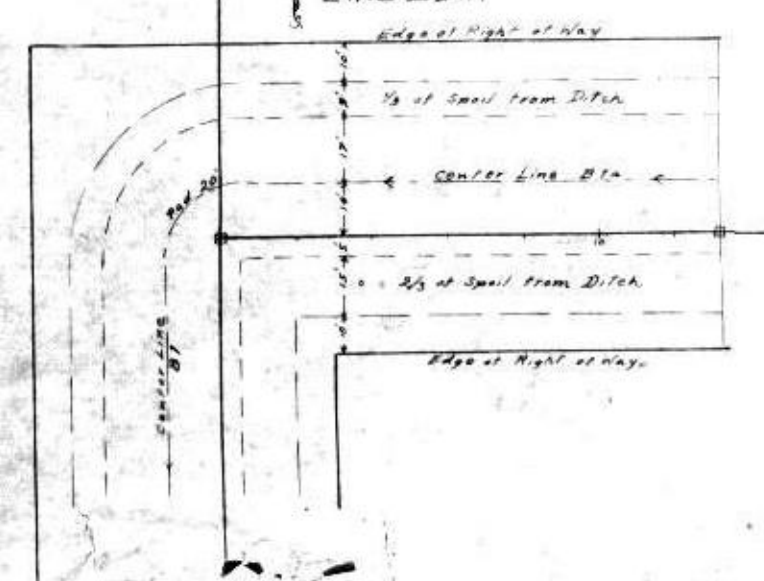


PLAN
LINE B1



TYPICAL CROSS-SECTION
OF ALL 4' BW
DITCHES
S.S. 2:3
Scale: 8" = 1'

PLAN
LINE B1a

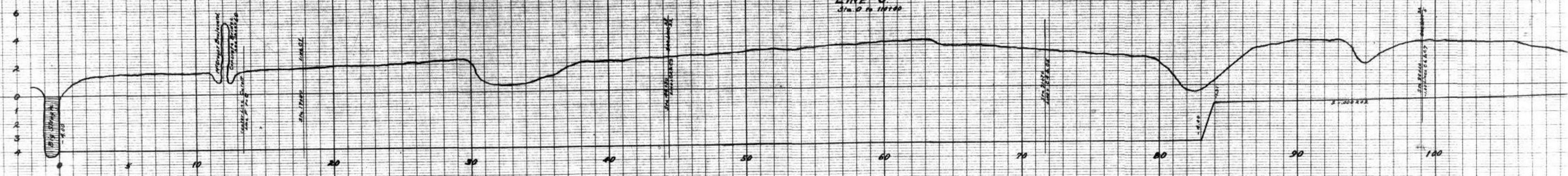


IONA DRAINAGE DISTRICT
Lee County, Florida
A.L. White,
Chief Engineer

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

Folio B
Sheet Ba

PROFILE
LINE C
Sta. 0 to 100+00



HYDRAULIC PROPERTIES

Sta. 0 to 93

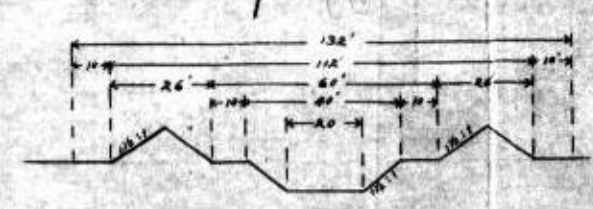
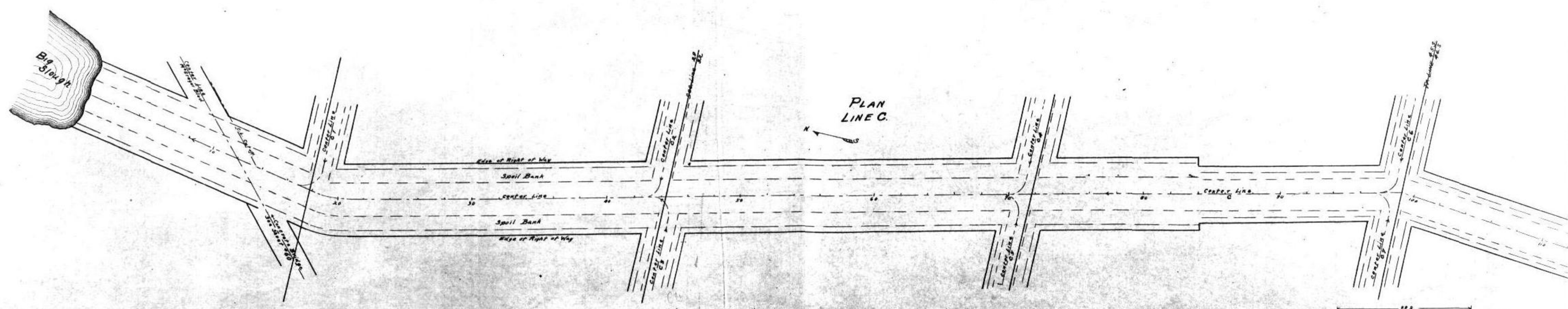
S	(Hydraulic)	0.00202
F.D.		4
B.W.		2.0
A.		1.04
W.P.		3.05
H.R.		2.05
V.		1.40
Cap.		140
n	0.030	0.1825
Slope		1/4:1

HYDRAULIC PROPERTIES

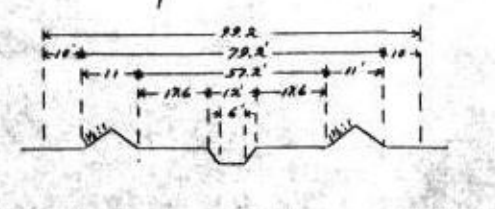
Sta. 93+10

S		0.00202
F.D.		3
B.W.		6
A.		2.4
W.P.		13.2
H.R.		1.82
V.		1.00
Cap.		24
n	0.030	0.1825
Slope		2:3

Dec. 20, 1913
A.W.



Cross-section
Sta. 0 to 94



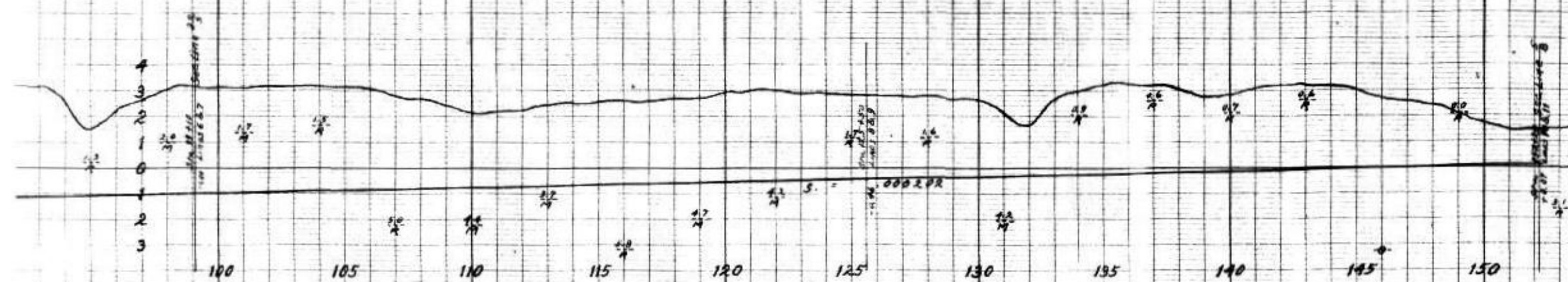
Cross-section
Sta. 93+10

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

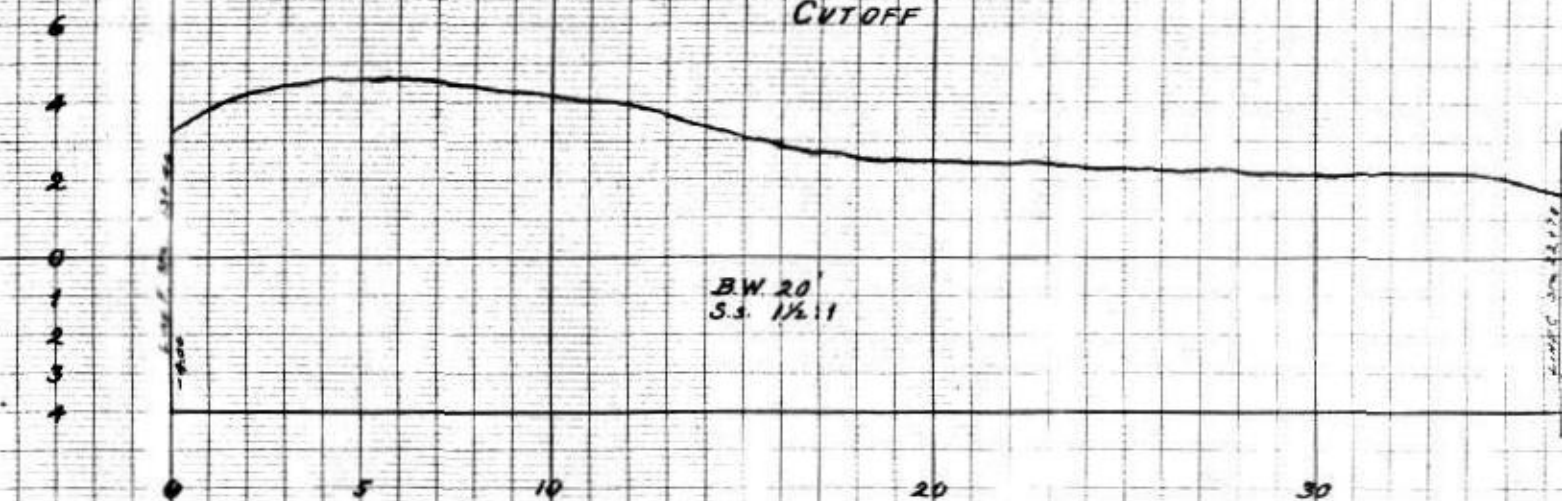
Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

Folio B
Sheet 2 of 6

PROFILE
LINE C
Sta. 110 to 152+20



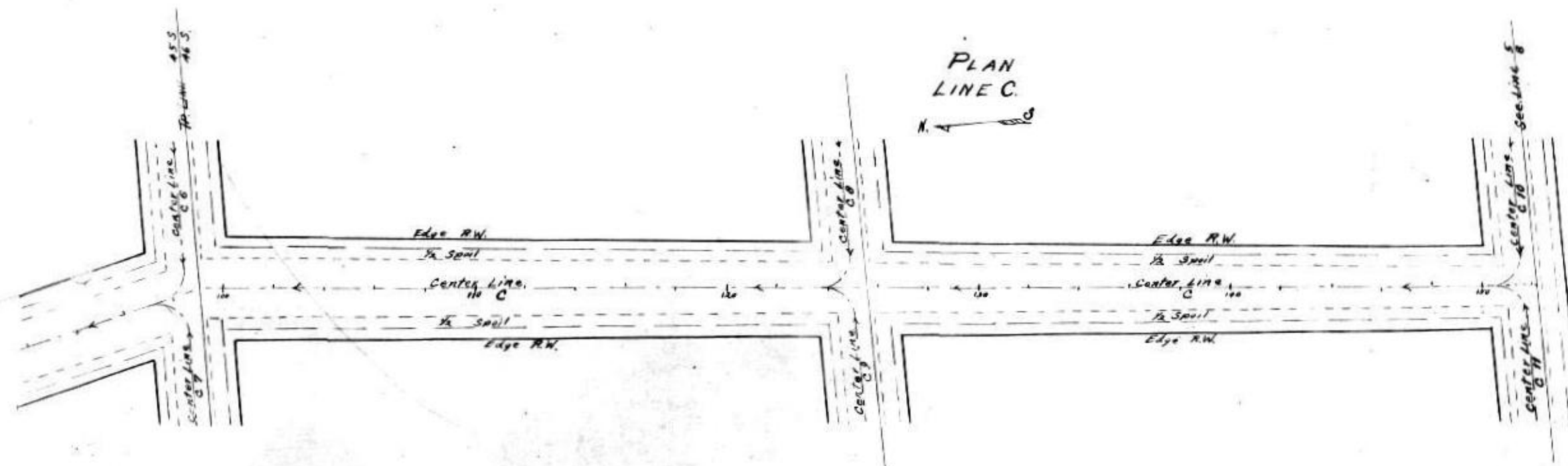
PROFILE
CUTOFF



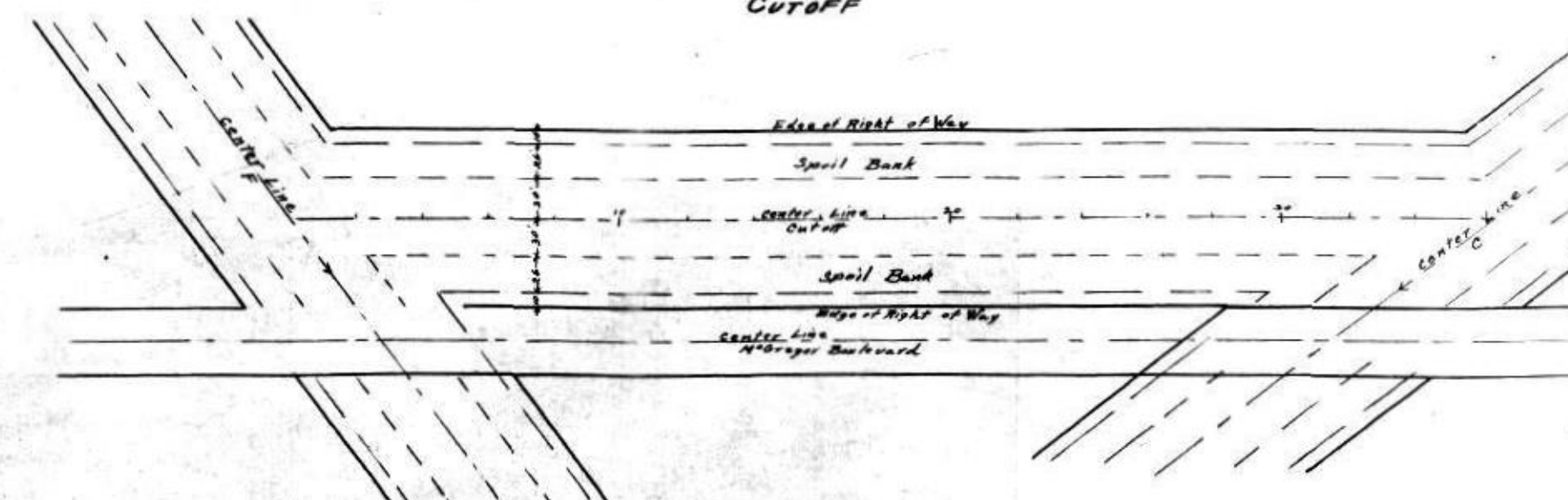
HYDRAULIC PROPERTIES

Sta. 152+20	000202
G.D.	3
B.W.	4
A.	18
W.P.	11.2
H.P.	1.61
V.	0.90
Cap.	16.2
n - base 2.50	
Side slope 2:3	

PLAN
LINE C



PLAN
CUTOFF

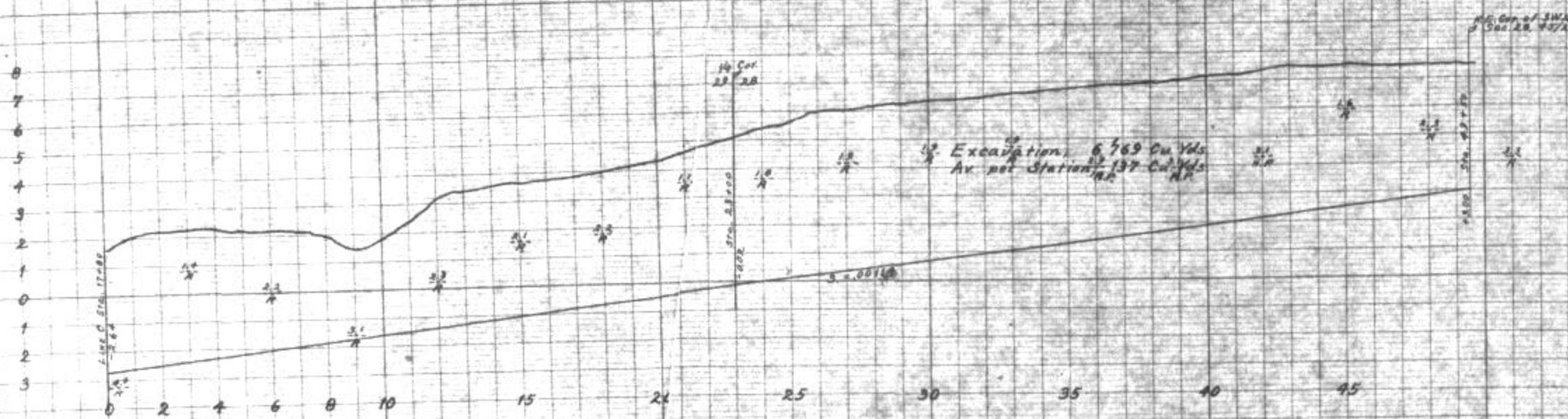


IONA DRAINAGE DISTRICT
Lee County, Florida
H.L. Walla,
Chief Engineer

Plan Scale 1" = 400'
Vert Scale 1" = 4'

Folio B
Sheet 9

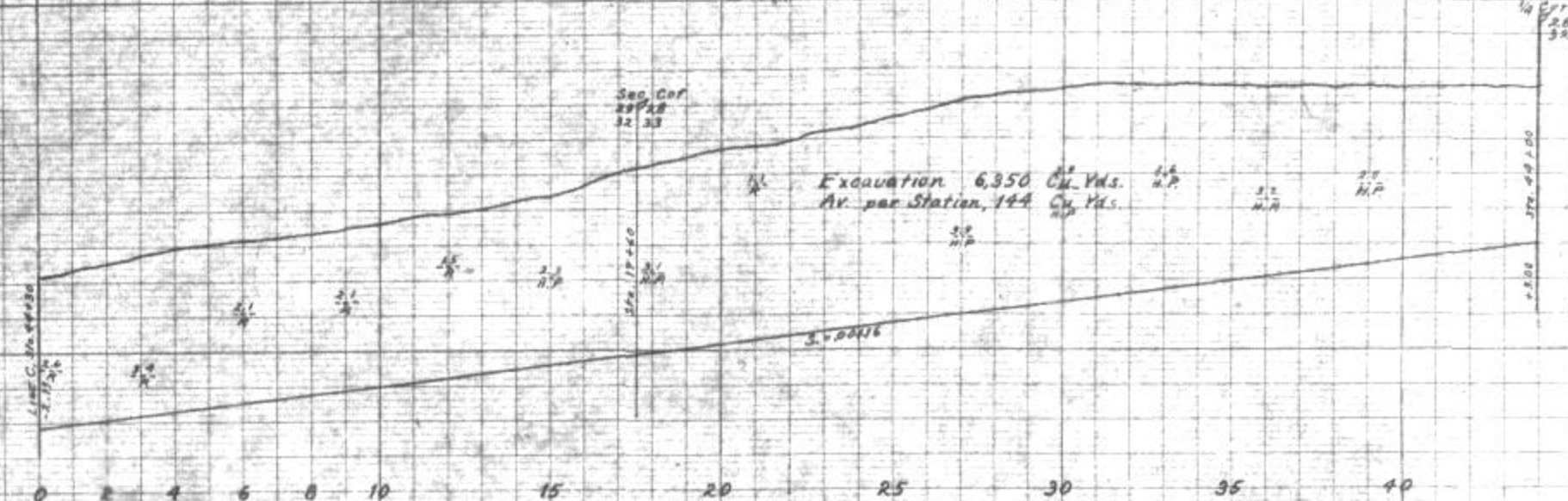
PROFILE
LINE C1



HYDRAULIC PROPERTIES

S.D.	0.0014
F.D.	1.65
B.W.	4
A	0.41
W.P.	7.96
H.R.	1.06
V	1.58
Corr.	10.3
W 0.030	on 45.6
Side-slope	2:1

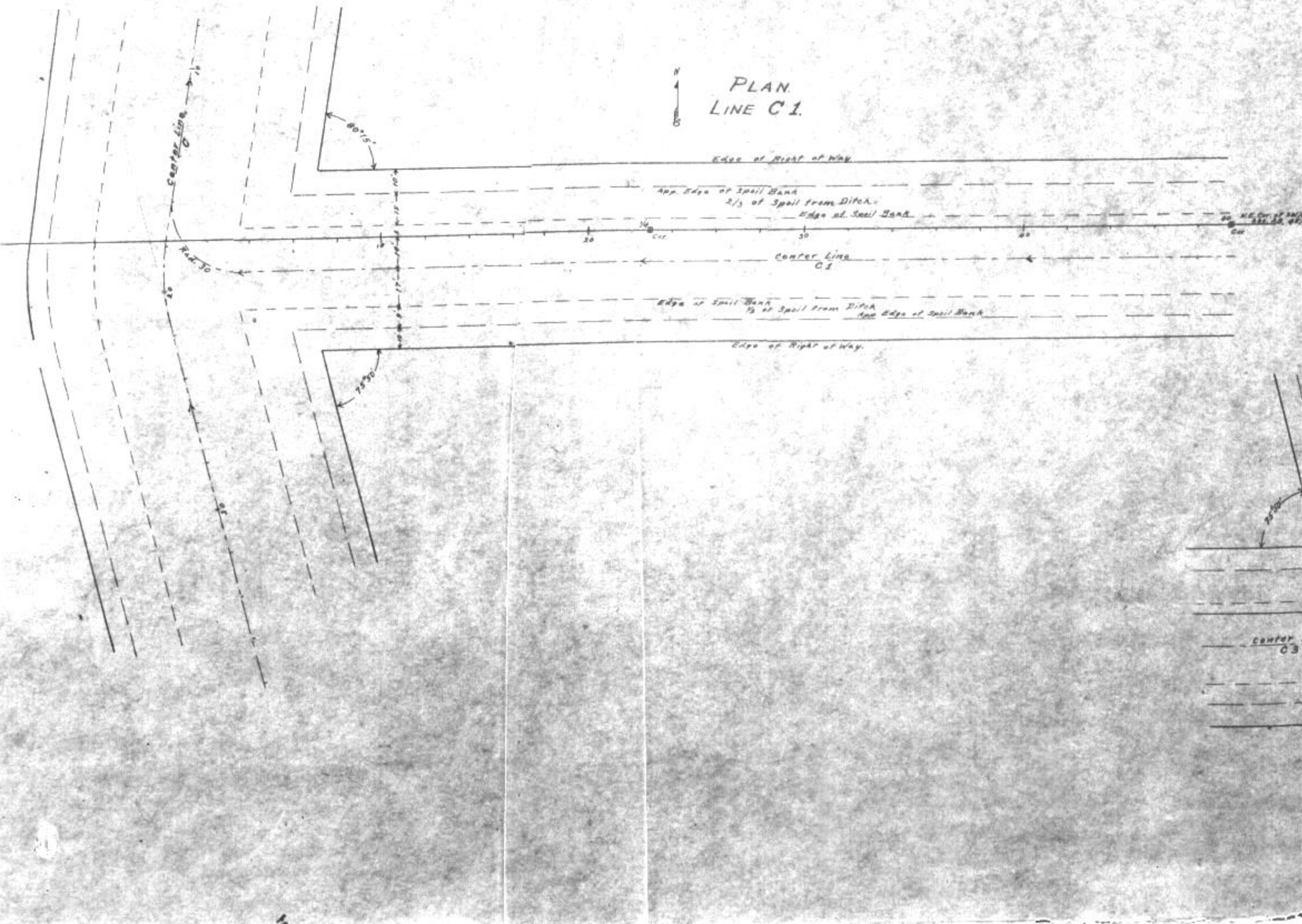
PROFILE
LINE C2



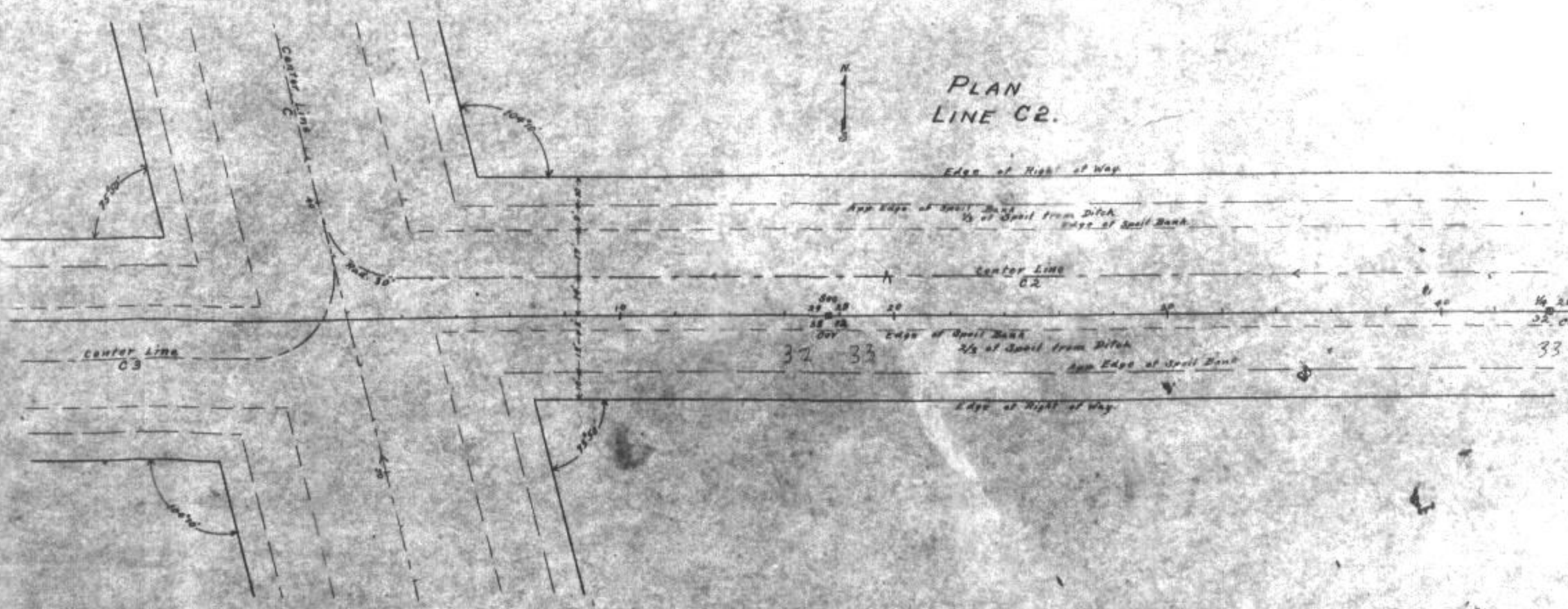
HYDRAULIC PROPERTIES

S	0.0016
F.D.	1.65
B.W.	4
A	0.41
W.P.	7.96
H.R.	1.06
V	1.60
Corr.	10.45
W 0.030	on 45.8
Side-slope	2:1

PLAN
LINE C1.



PLAN
LINE C2.

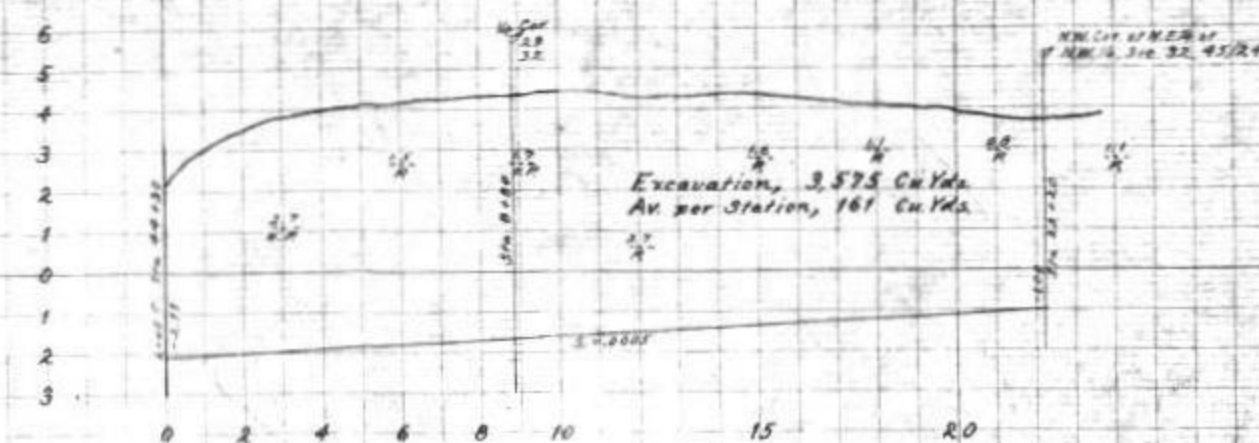


IONA DRAINAGE DISTRICT
Lee County, Florida.
A. L. WHITE,
Chief Engineer.

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

Folio B
Sheet 10

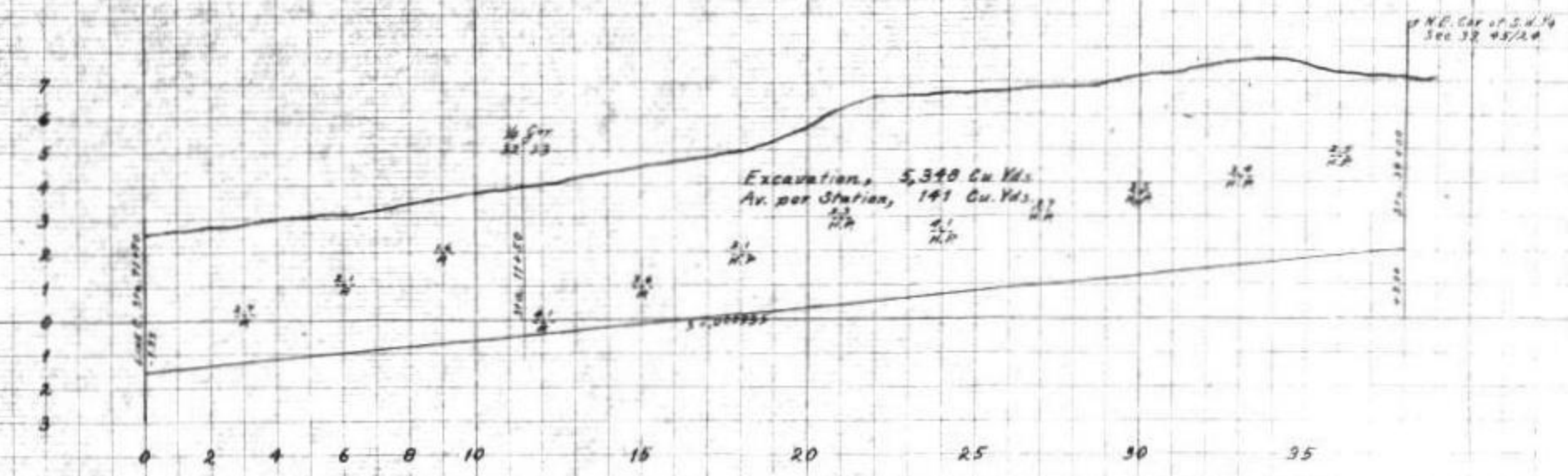
PROFILE
LINE C3.



HYDRAULIC PROPERTIES.

S	.0005
FD	3
BW	4
A	18
W.P.	12.94 11.3
H.R.	1.35 1.41
V	1.32 1.45
Cup	23.4 26.1
M = 0.030 C = 48.57	
Side slope 2:1	

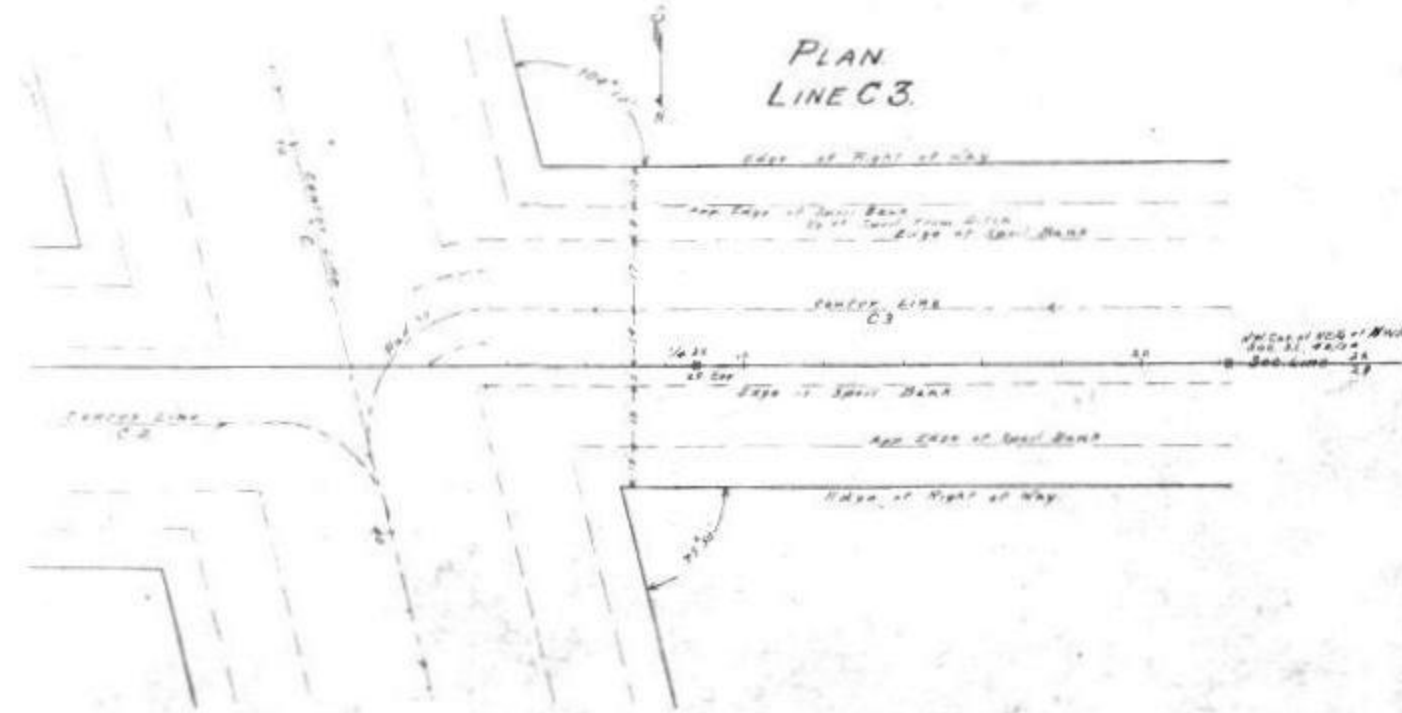
PROFILE
LINE C4.



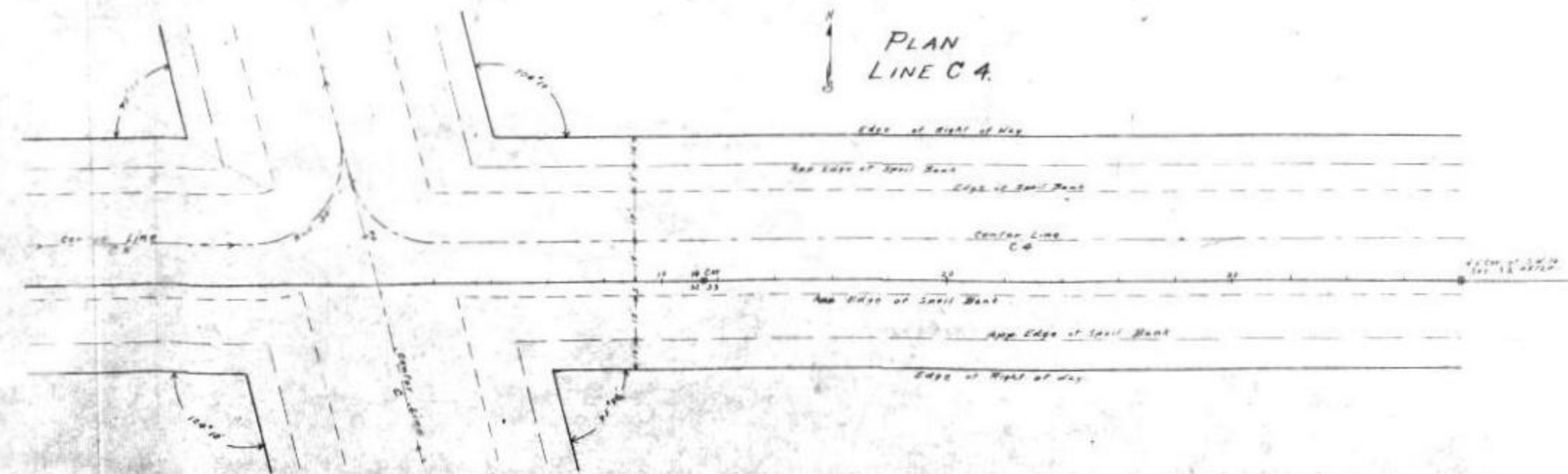
HYDRAULIC PROPERTIES.

S	.00035
FD	1.5
BW	4
A	7.5
W.P.	7.6
H.R.	0.99
V	1.37
Cup	10.3
M = 0.030 C = 45	
Side slope 2:1	

PLAN
LINE C3.



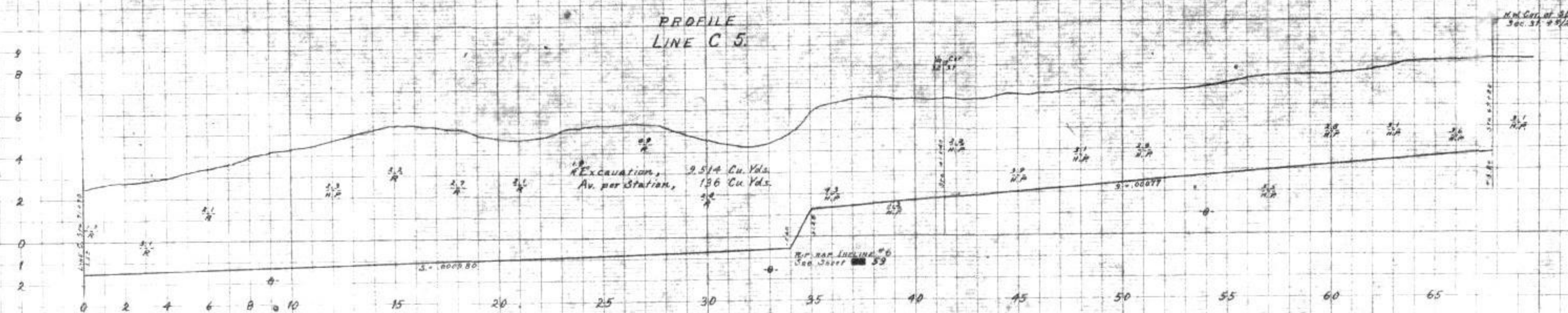
PLAN
LINE C4.



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

Horizontal Scale 1" = 400'
Vertical Scale 1" = 4'

PROFILE
LINE C 5



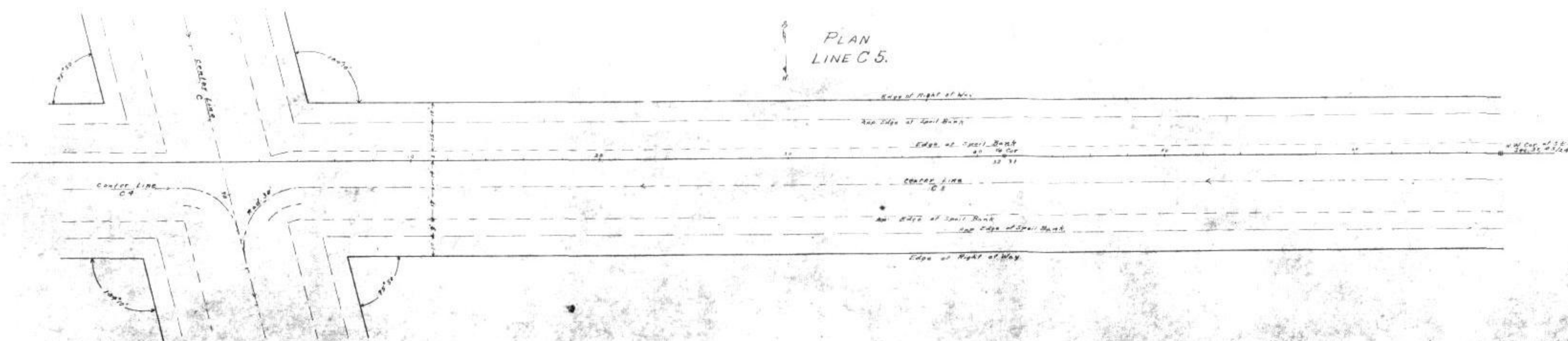
HYDRAULIC PROPERTIES

S	0.0028
F.D	3
B.W	4
A	18
W.P	12.2
H.R	1.61
V	0.953
Cap	17.3
w = 0.030 c = 0.030 50	
Side slope 2:1	

HYDRAULIC PROPERTIES

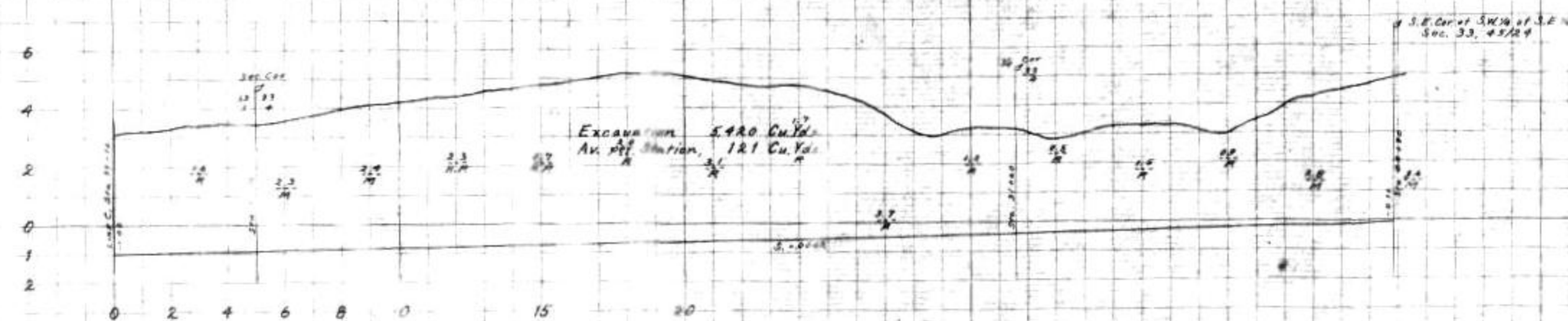
S	0.0027
F.D	1.5
B.W	4
A	7.5
W.P	7.6
H.R	0.99
V	1.24
Cap	9.9
w = 0.030 c = 0.030 45	
Side slope 2:1	

PLAN
LINE C 5



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

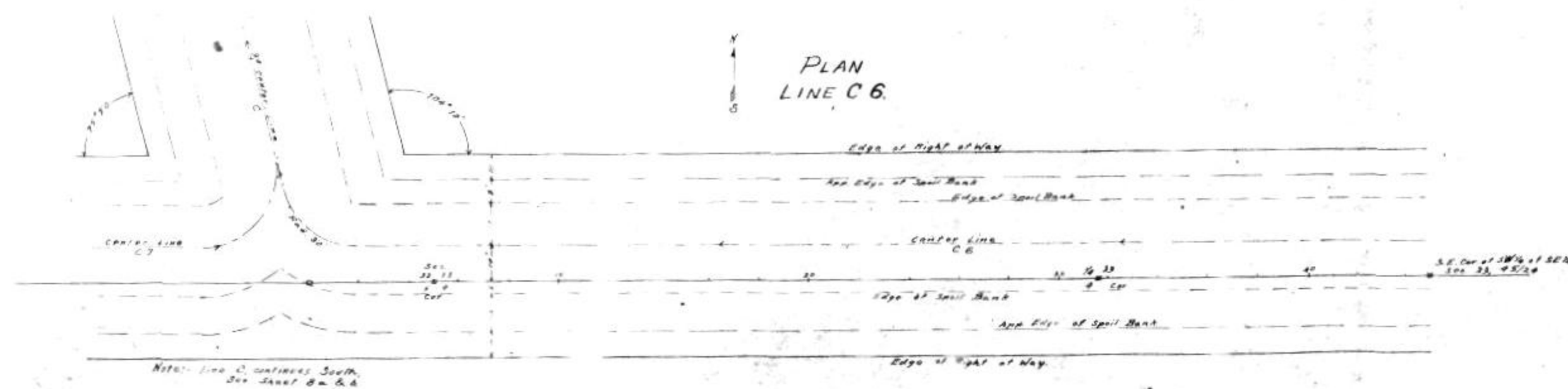
PROFILE
LINE C 6.



HYDRAULIC PROPERTIES.

S.		1000
F.D	3.	
B.W.	4.	
A	18	
W.P	12.50	11.2
H.P	1.50	1.61
V.	0.80	0.90
Cap.	1000	1000
R. 0.030		C. 0.030
Side-slope 2:3		

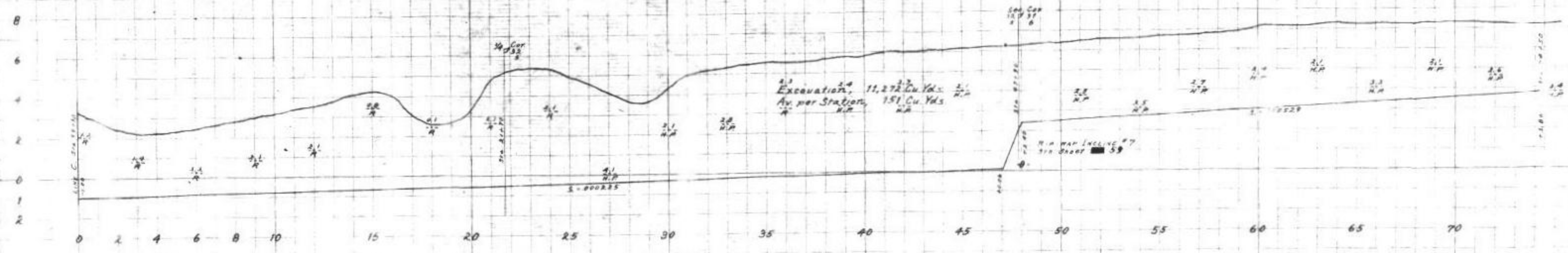
PLAN
LINE C 6.



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

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

PROFILE
LINE C.7



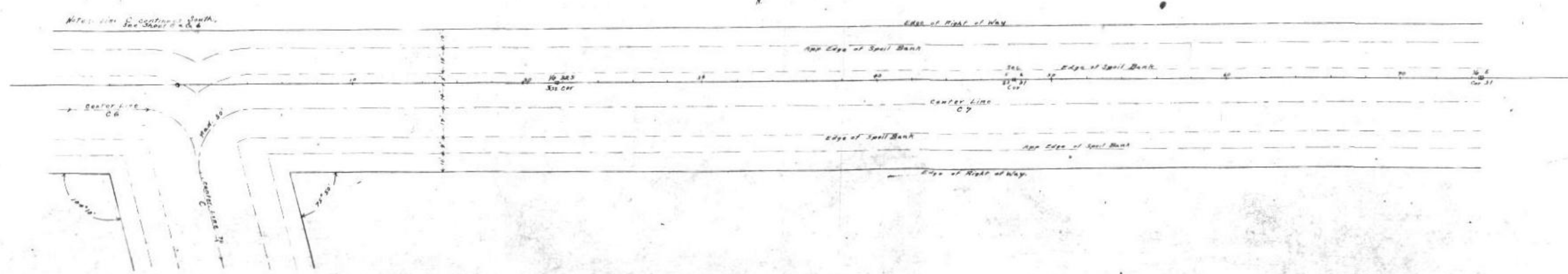
HYDRAULIC PROPERTIES

S	.000225
F.D.	3
B.W.	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V.	0.85 0.95
Cap.	13.5 17.1
m=.0030 c=.49 51	
Side slope 2:1	

HYDRAULIC PROPERTIES

S	.000539
F.D.	3
B.W.	4
A	18
W.P.	12.94 11.2
H.R.	1.33 1.61
V.	0.85 0.95
Cap.	13.5 17.1
m=.0030 c=.49 51	
Side slope 2:1	

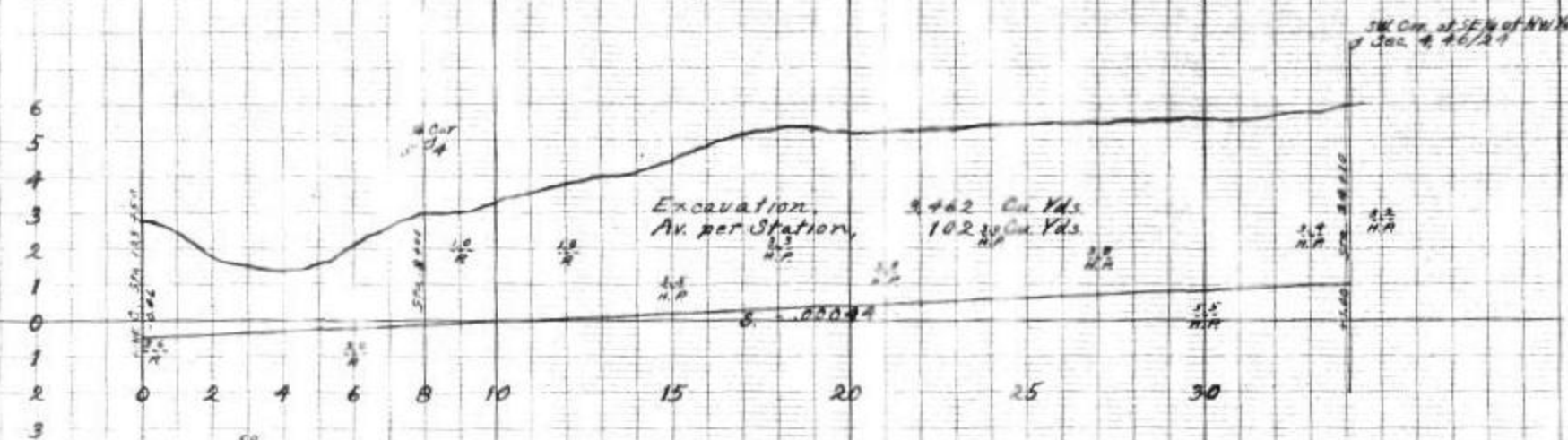
PLAN
LINE C.7



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

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

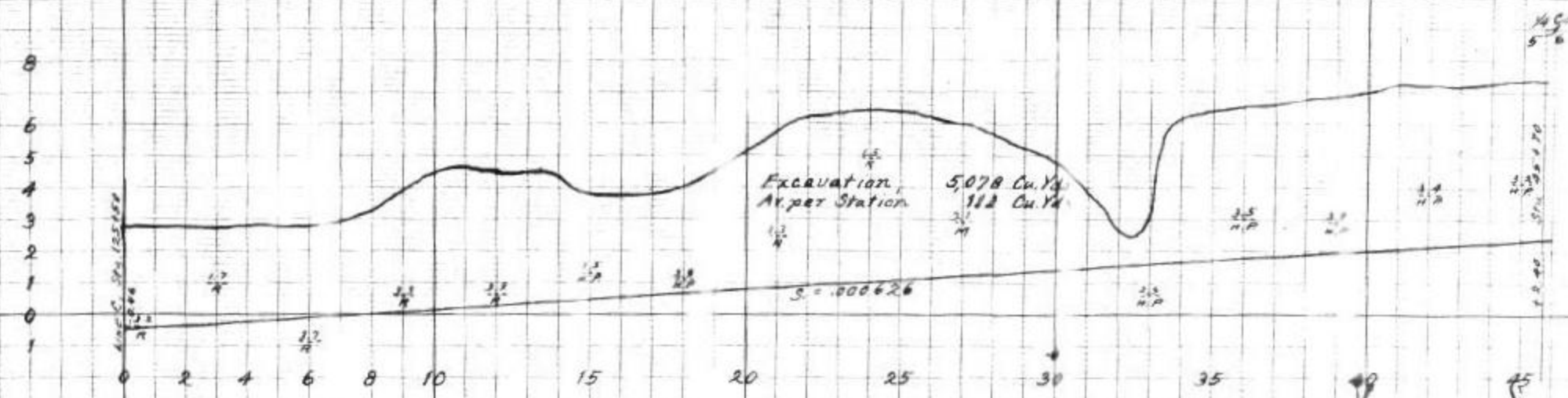
PROFILE
LINE C8



HYDRAULIC PROPERTIES

S. 0.00044
F.D. 3
B.W. 4
A. 18
W.P. 11.2
H.R. 1.61
V. 1.96
Cap. 2.44
n 0.030 c 51
Side slope 2:3

PROFILE
LINE C9



HYDRAULIC PROPERTIES

S. 0.00020
F.D. 3
B.W. 4
A. 18
W.P. 11.2
H.R. 1.61
V. 1.96
Cap. 2.44
n 0.030 c 51
Side slope 2:3

PLAN
LINES C8 & C9



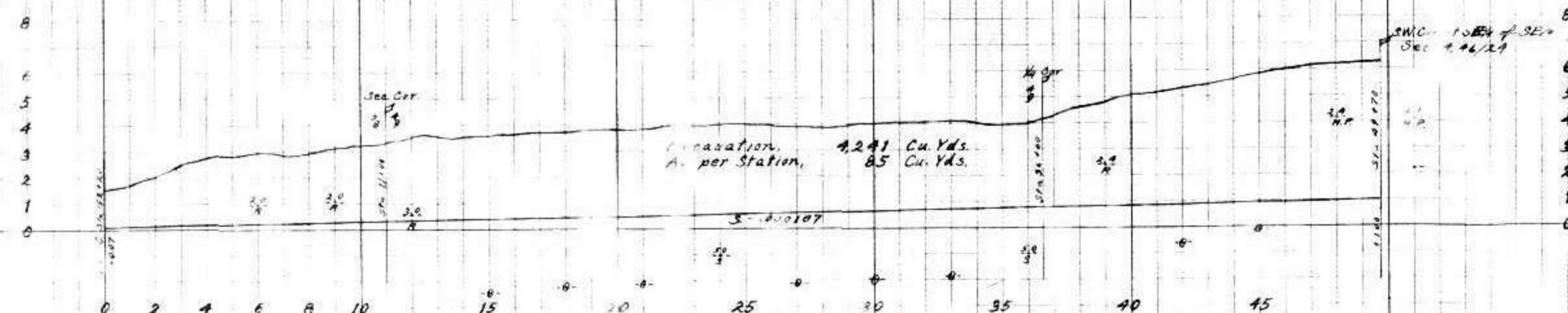
IONA DRAINAGE DISTRICT
Lee County, Florida.

L. White
Civil Engineer

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

Folio B
Sheet 15

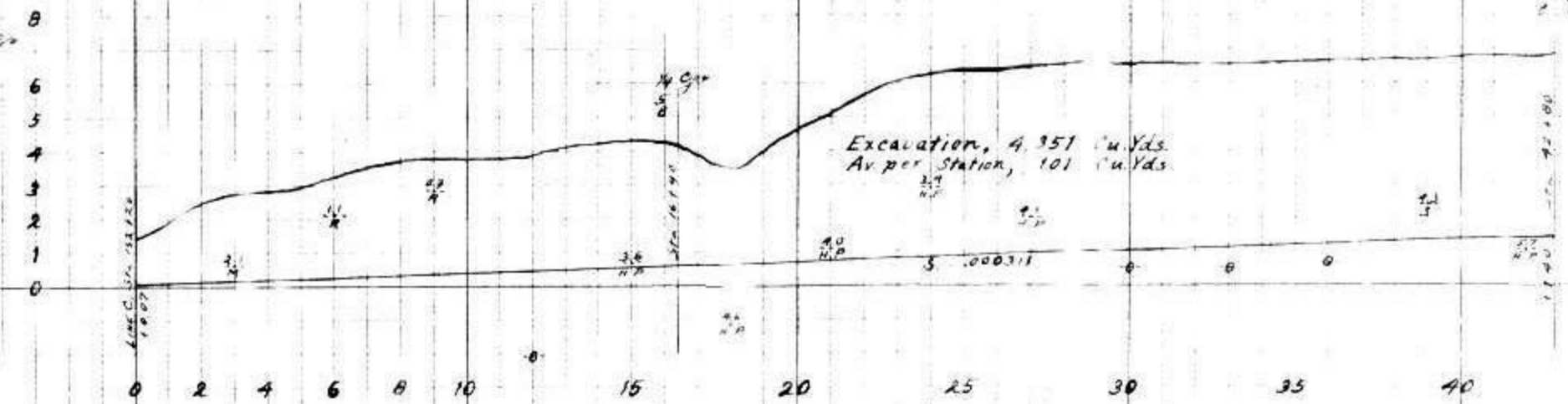
PROFILE
LINE C 10



HYDRAULIC PROPERTIES

S. 0.000107
F.D. 3
B.W. 4
A. 10
W.P. 11.2
H.R. 1.61
V. 0.87
Cap. 15.6
n = 0.030 C = 51

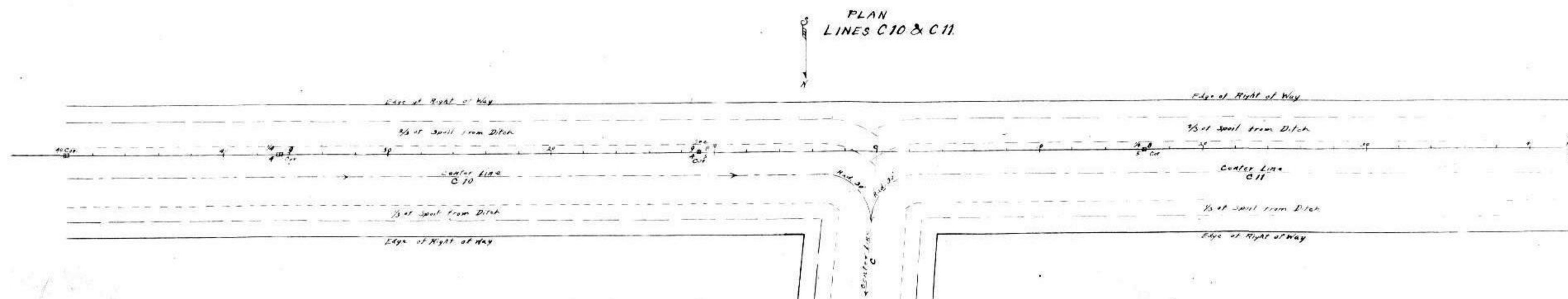
PROFILE
LINE C 11



HYDRAULIC PROPERTIES

S. 0.000311
F.D. 3
B.W. 4
A. 10
W.P. 11.2
H.R. 1.61
V. 1.14
Cap. 20.5
n = 0.030 C = 51
Side slope 2:1

PLAN
LINES C 10 & C 11

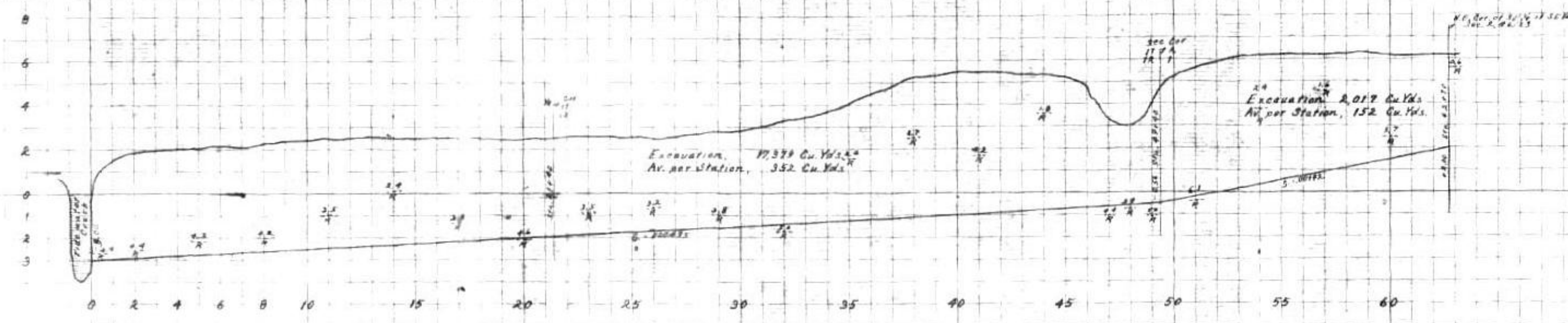


IONA DRAINAGE DISTRICT
Lee County, Florida
A. L. White,
Chief Engineer.

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

Field B
Sheet 16

PROFILE
LINE D



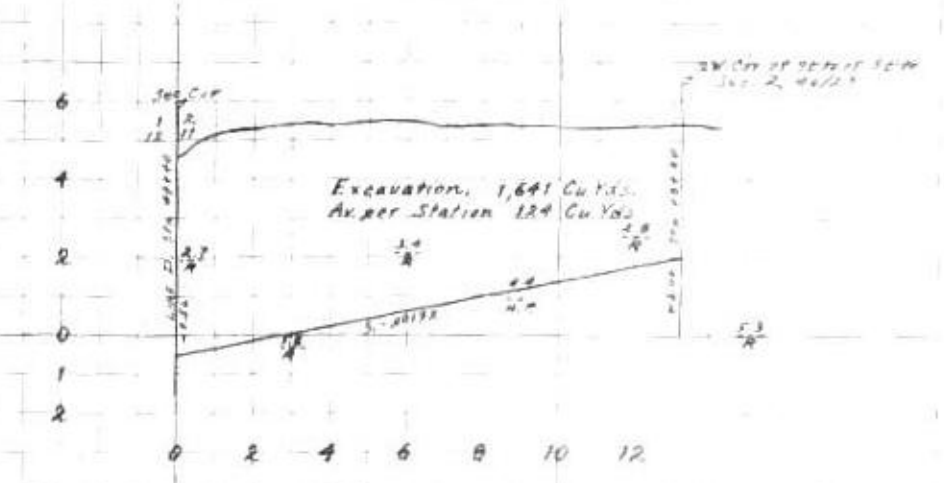
HYDRAULIC PROPERTIES.

S	.000495
FD	3
BW	4
A	39
WP	22.96
HR	1.7
V	1.50
Cap	38.4
n = .030 c = .006	
Side slope 3:1	

HYDRAULIC PROPERTIES.

S	.00192
FD	0.9
BW	4
A	4.14
WP	6.16
HR	0.67
V	1.43
Cap	5.9
n = .030 c = .006	
Side slope 2:1	

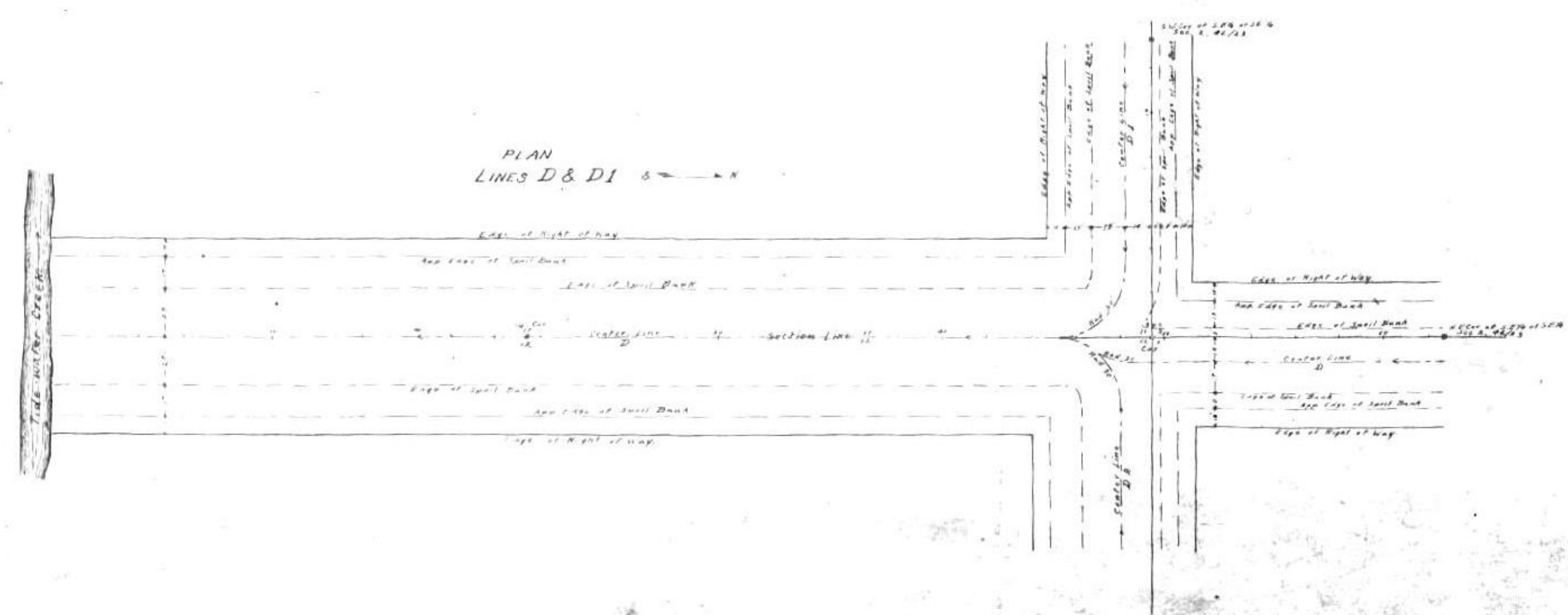
PROFILE
LINE D1



HYDRAULIC PROPERTIES.

S	.00192
FD	0.9
BW	4
A	4.14
WP	6.16
HR	0.67
V	1.43
Cap	5.9
n = .030 c = .006	
Side slope 2:1	

PLAN
LINES D & D1

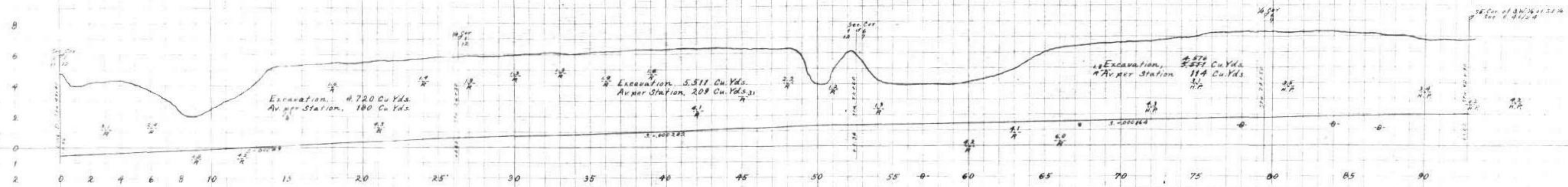


IONA DRAINAGE DISTRICT
Lee County, Florida
A.L. White
Chief Engineer

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

Folio B
Sheet 17

PROFILE
LINE D2.



HYDRAULIC PROPERTIES.

S	.00049
FD	3
BW	3
A	30
WP	16.94 15.2
H.R	1.77 1.97
V	1.53 1.67
Cap	48 30
m=.0030 c=.55754	
Side-slope 2:3	

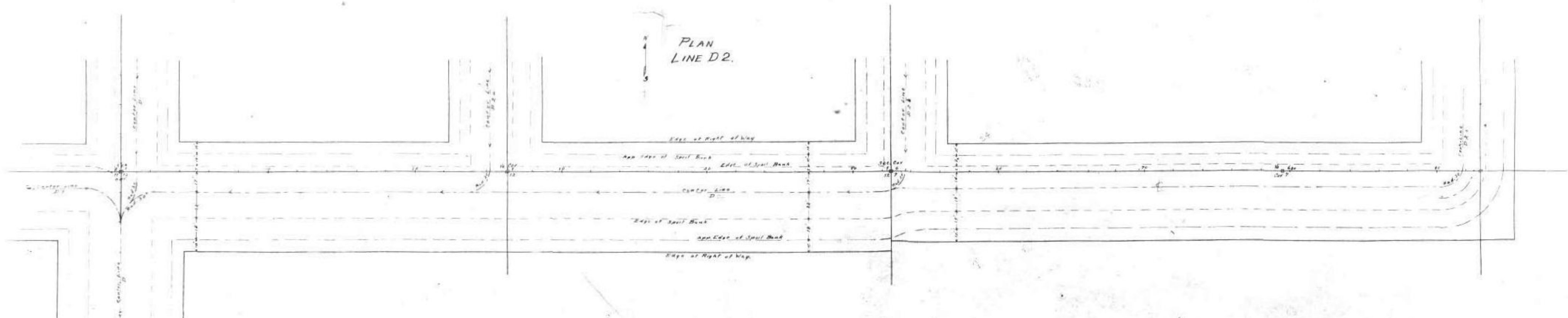
HYDRAULIC PROPERTIES.

S	.000282
FD	3
BW	3
A	30
WP	16.94 15.2
H.R	1.77 1.97
V	1.53 1.67
Cap	48 30
m=.0030 c=.55754	
Side-slope 2:3	

HYDRAULIC PROPERTIES.

S	.000164
FD	3
BW	3
A	30
WP	16.94 15.2
H.R	1.77 1.97
V	1.53 1.67
Cap	48 30
m=.0030 c=.55754	
Side-slope 2:3	

PLAN
LINE D2.



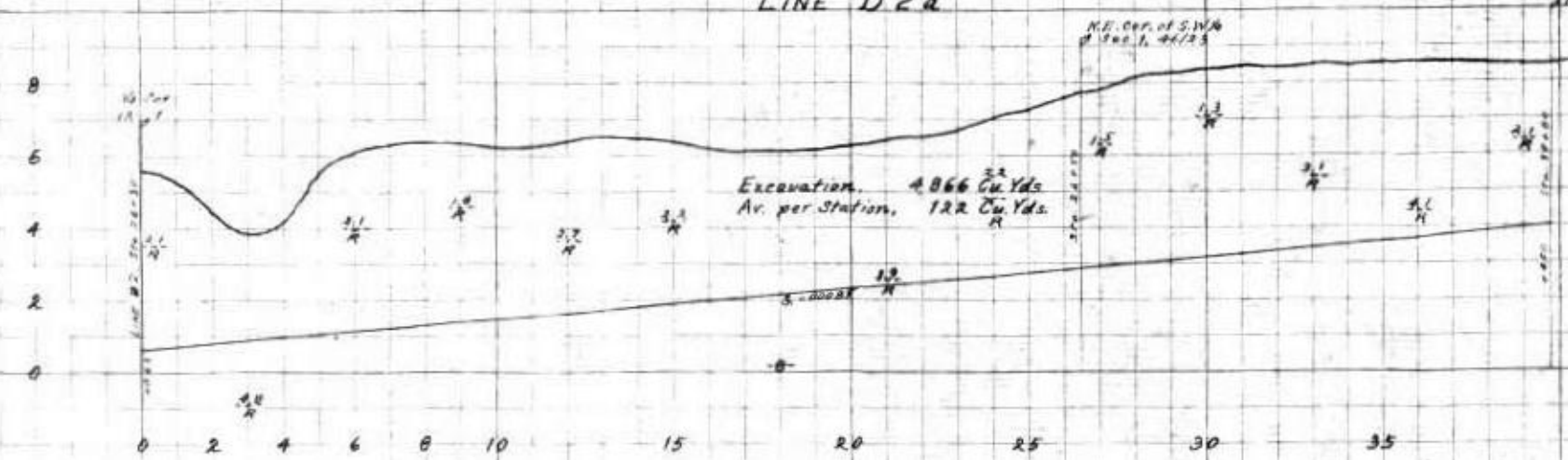
IONA DRAINAGE DISTRICT
Lee County, Florida

A. L. White,
Chief Engineer

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

Folio B
Sheet 18

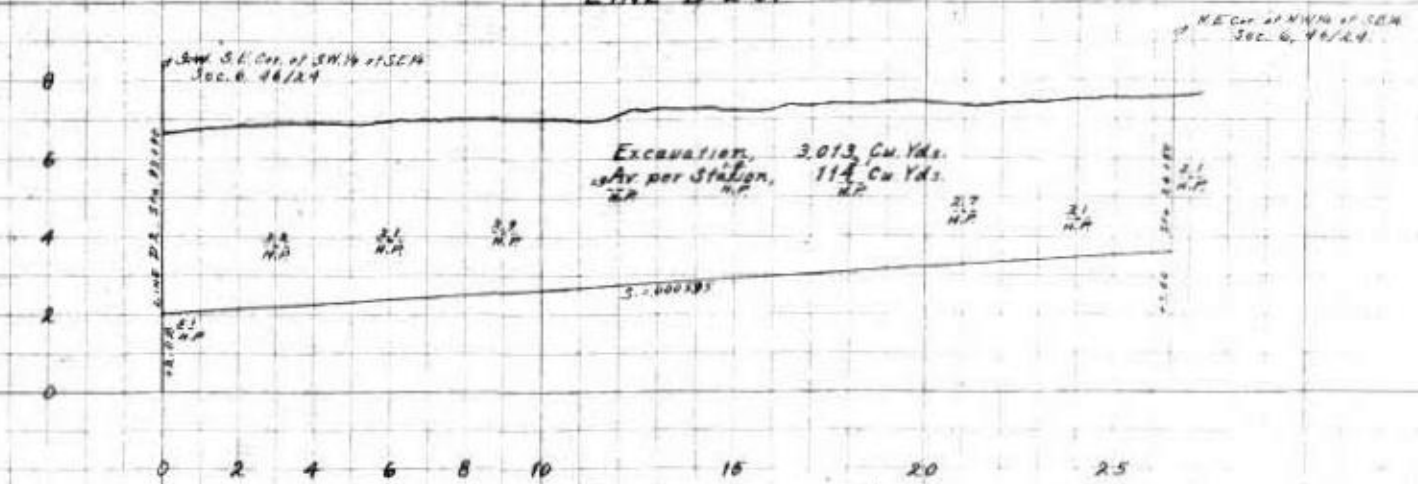
PROFILE
LINE D2a



HYDRAULIC PROPERTIES.

S	0.0005
F.D.	1.5
B.W.	4
A	7.50
W.P.	7.60
H.R.	0.99
V	1.30
Cap.	979
n	0.030 c. 45
Side slope	2:1

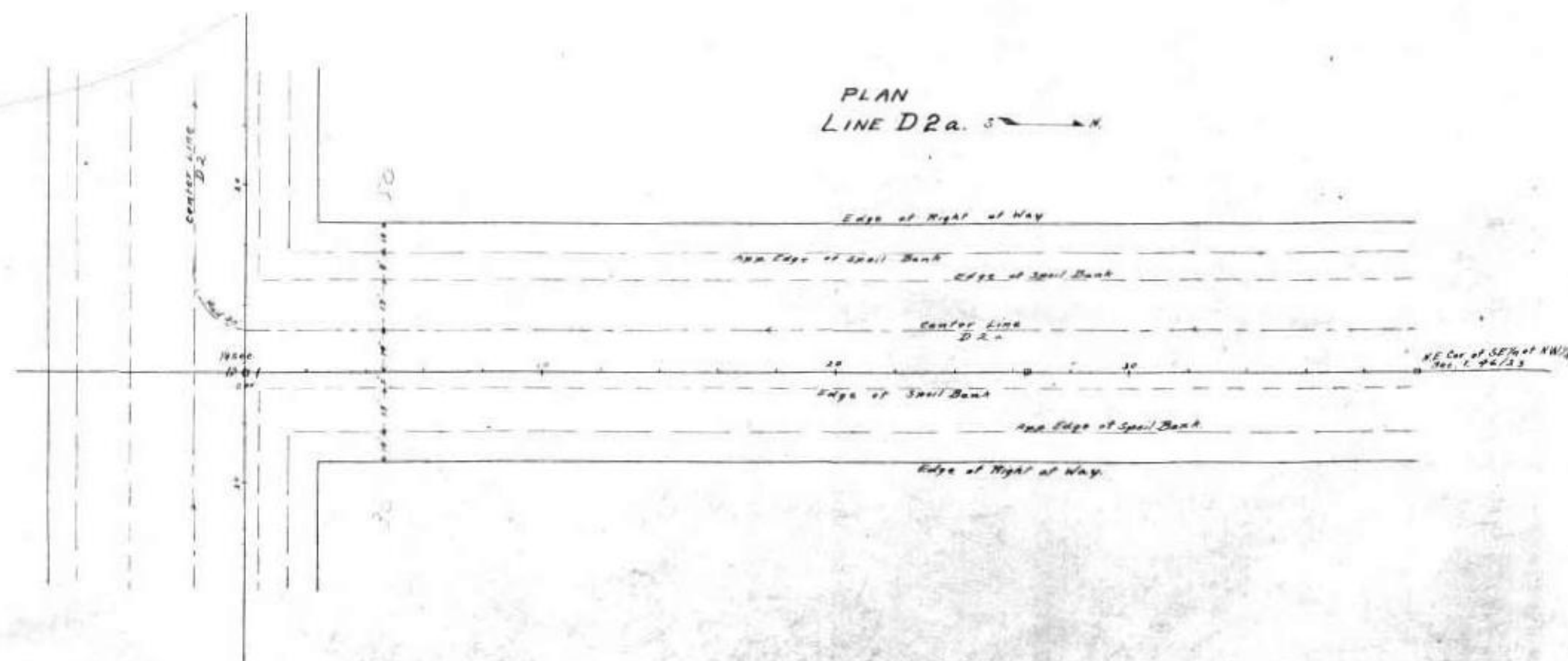
PROFILE
LINE D2c.



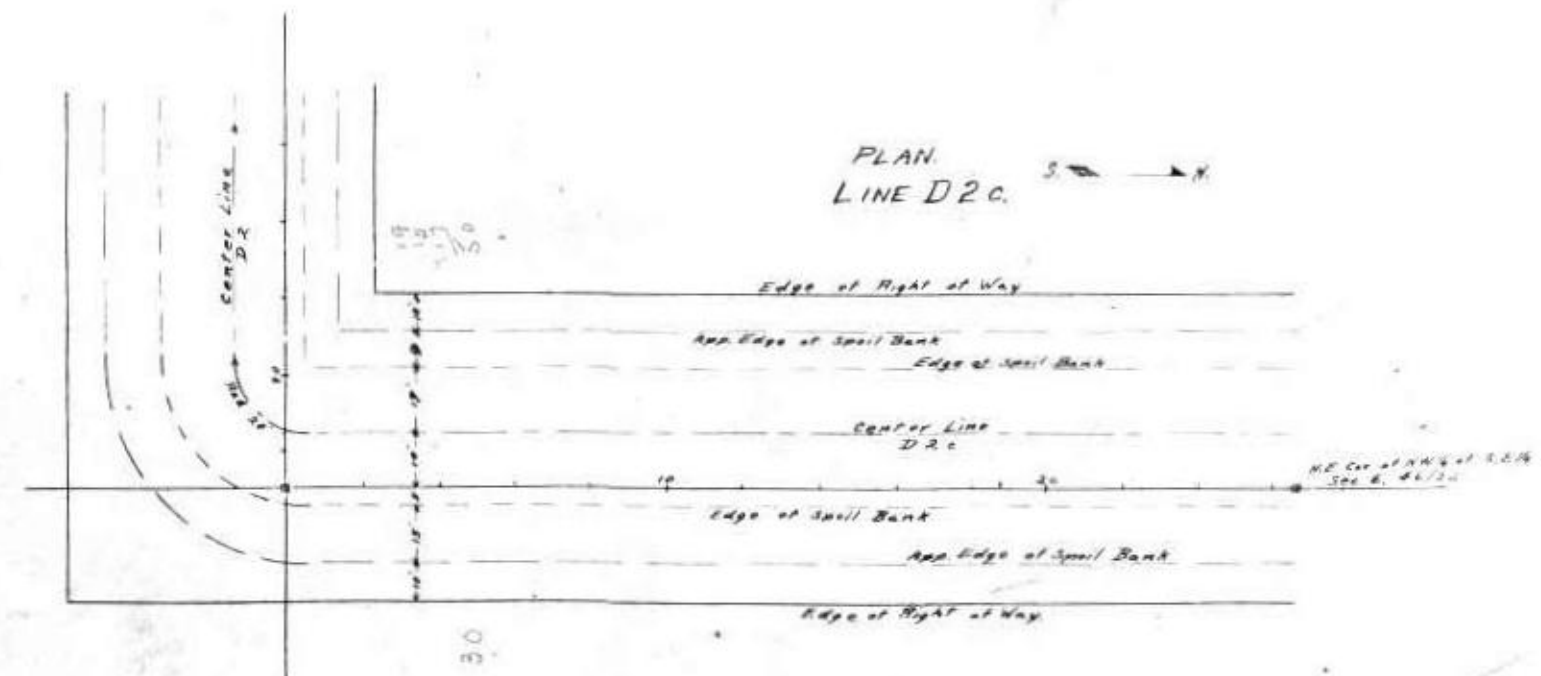
HYDRAULIC PROPERTIES.

S	0.0005
F.D.	3
B.W.	4
A	19
W.P.	12.10 11.2
H.R.	1.39 1.61
V	1.41 1.58
Cap.	2304 20.4
n	0.030 c. 45
Side slope	2:1

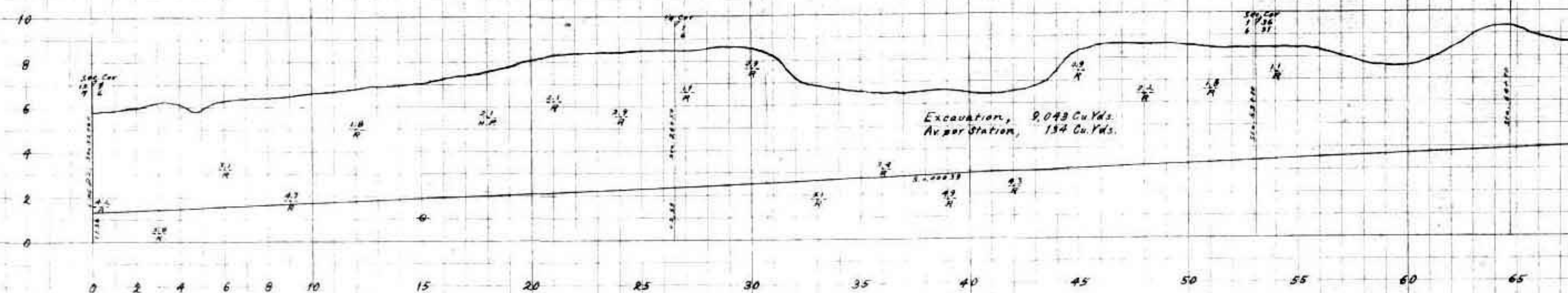
PLAN
LINE D2a



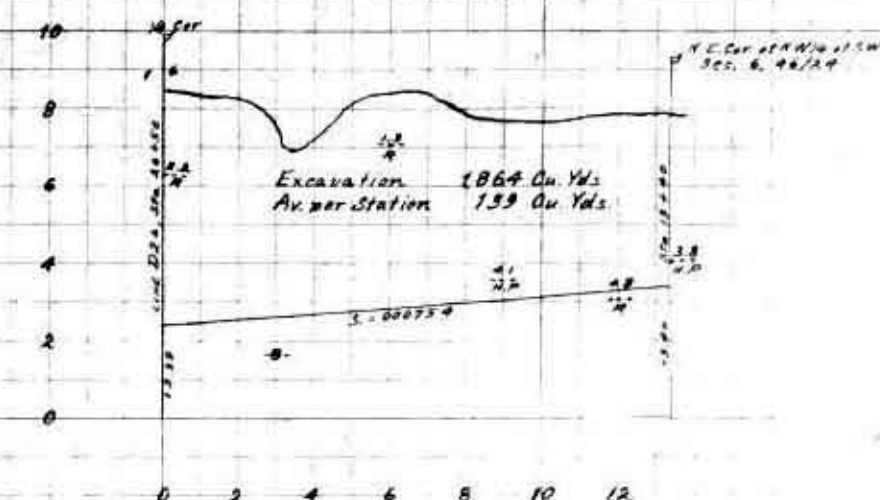
PLAN
LINE D2c



PROFILE
LINE D2 b.



PROFILE
LINE D261

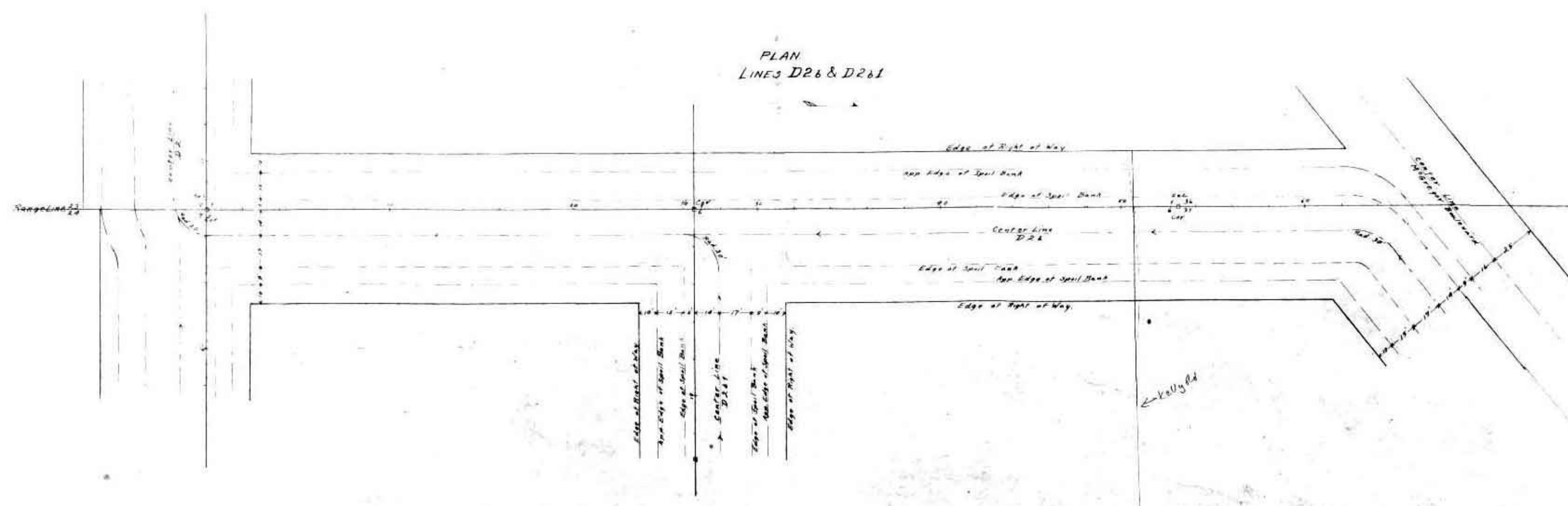


G.	00039
FD	3.
B.W.	4
A.	10.
W.P	12:34 11.2
H.R	1:39 1.61
V.	7:14 1.27
Car.	20:5 23.
n = 0030 c 445 51	
Sida s/are 2:3	

S.	1,000754
F.D.	14
B.W.	4
A.	6.90
W.P.	7.36
H.R.	0.94
V.	1.17
Cap.	8.10

n = 0.030 c = 44.1
Side slope 2:3

PLAN
LINES D26 & D261



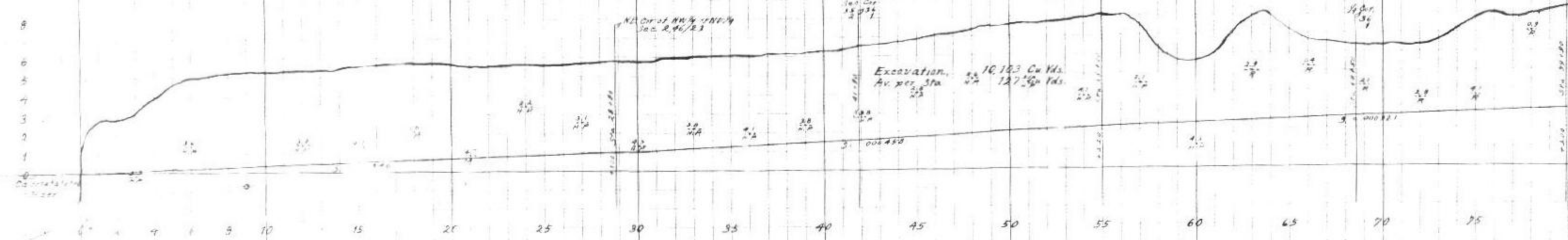
IONA DRAINAGE DISTRICT
Lee County, Florida

L. White,
Chief Engineer

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

Folio B
Sheet 20

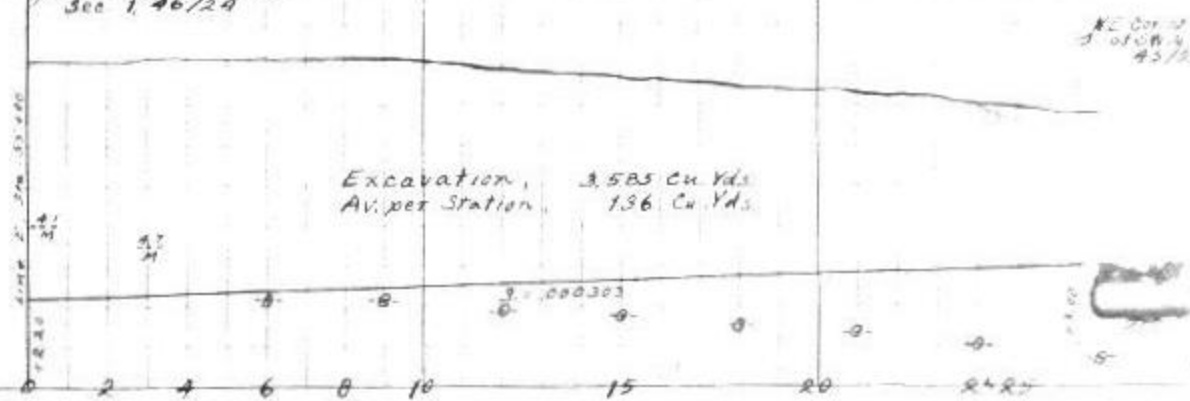
PROFILE
LINE E



HYDRAULIC PROPERTIES

S	.000303
FD	3
BW	4
A	18
W.P.	11.2
H.R.	1.61
V	1.13
Cap.	20.1
n = .030 c = 51	
Side slope 2:3	

PROFILE
LINE E1



Excavation 3.585 Cu Yds.
Av. per Station 1.56 Cu Yds.

HYDRAULIC PROPERTIES

S	.000346
FD	3
BW	4
A	18
W.P.	11.2
H.R.	1.61
V	1.13
Cap.	21.0
n = .030 c = 51	
Side slope 2:3	

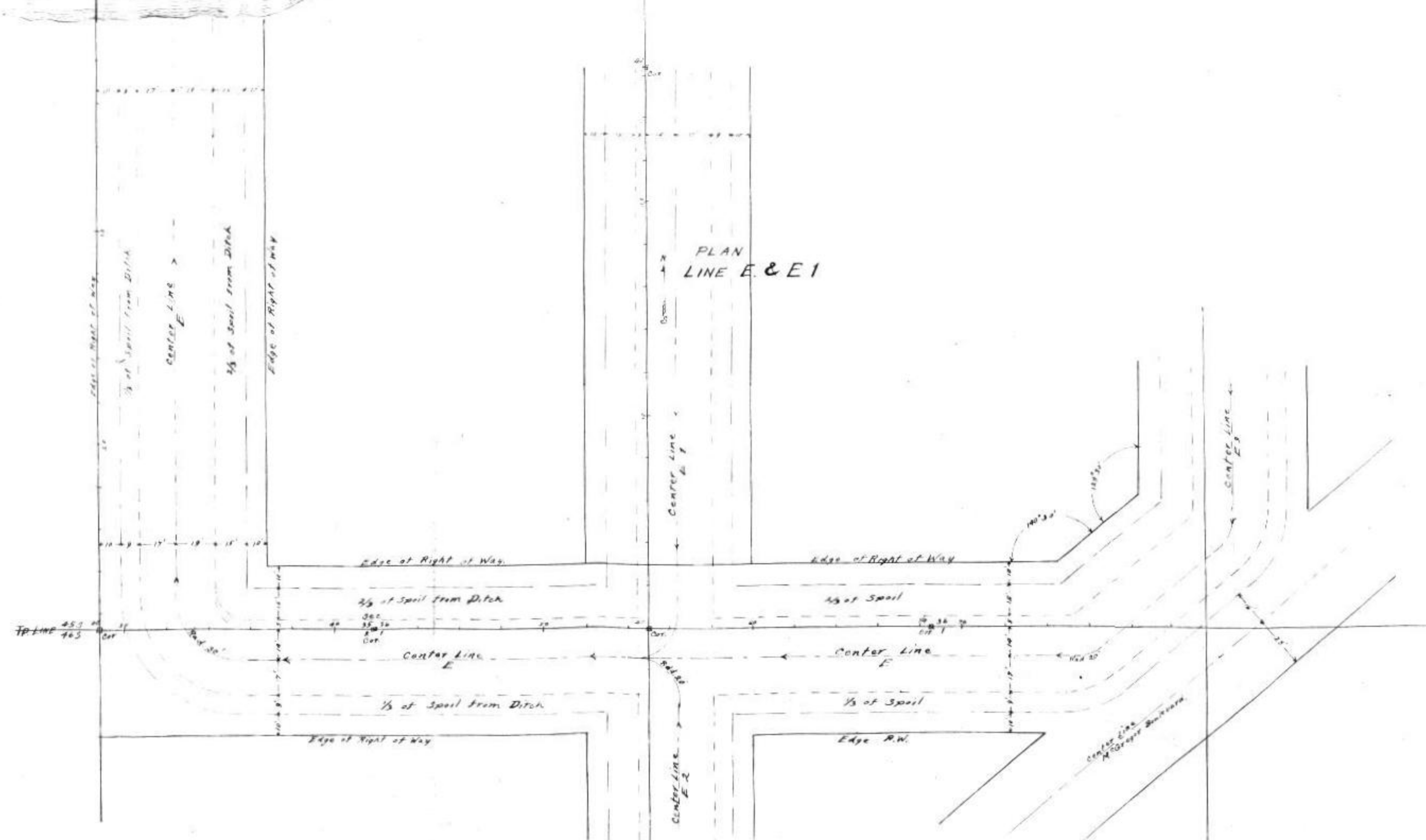
HYDRAULIC PROPERTIES

S	.000438
FD	18
BW	4
A	9.36
W.P.	8.32
H.R.	1.12
V	1.02
Cap.	9.55
n = .030 c = 45	
Side slope 2:3	

HYDRAULIC PROPERTIES

S	.000321
FD	18
BW	4
A	9.36
W.P.	8.32
H.R.	1.12
V	1.02
Cap.	9.55
n = .030 c = 45	
Side slope 2:3	

Calogahatchee River



IONA DRAINAGE DISTRICT

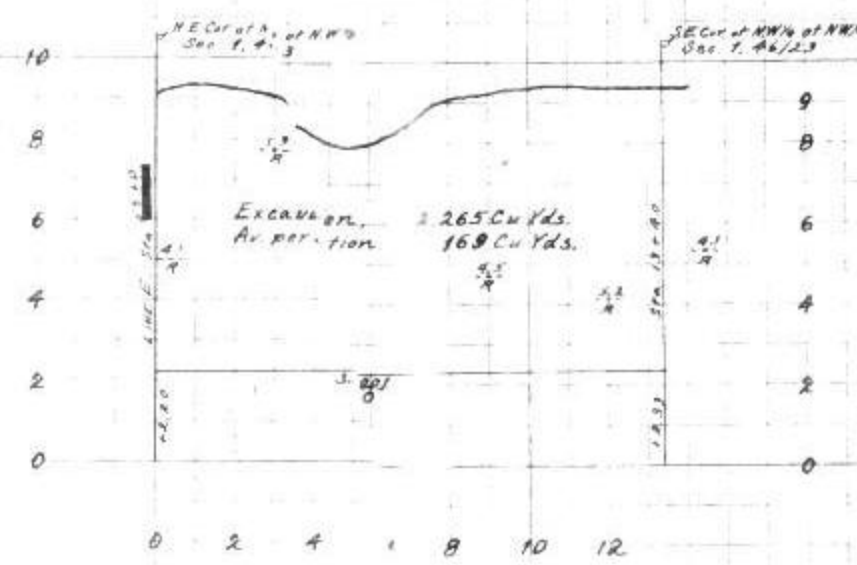
Lee County, Florida

A.L. White,
Chief Engineer

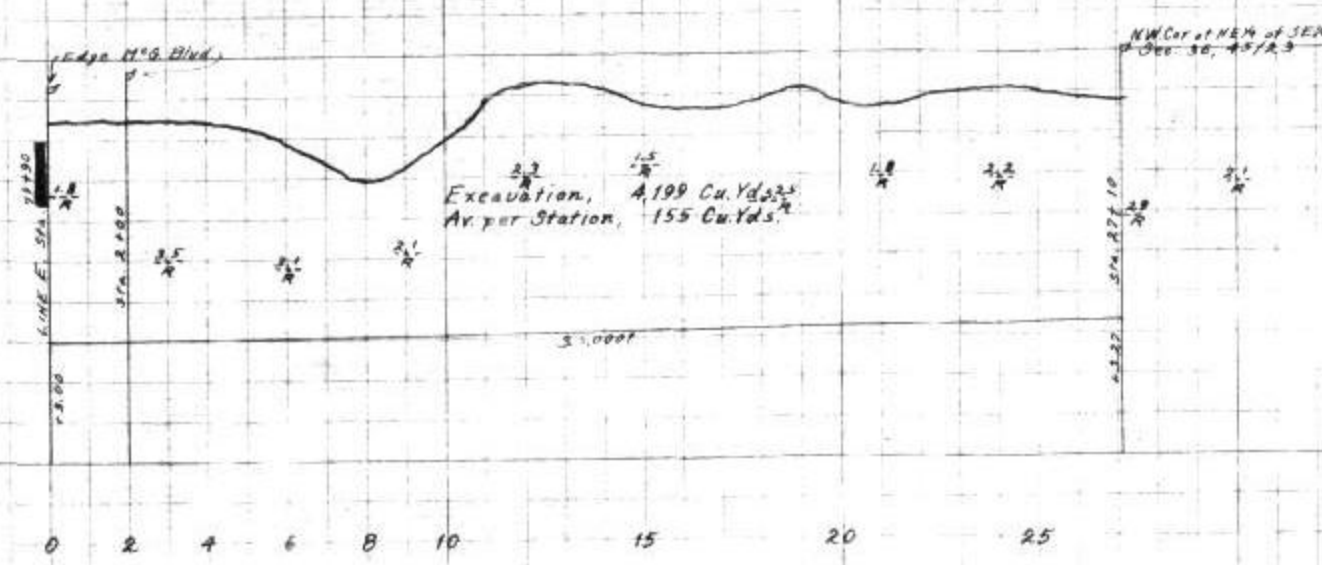
Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

Folio B
Sheet 21

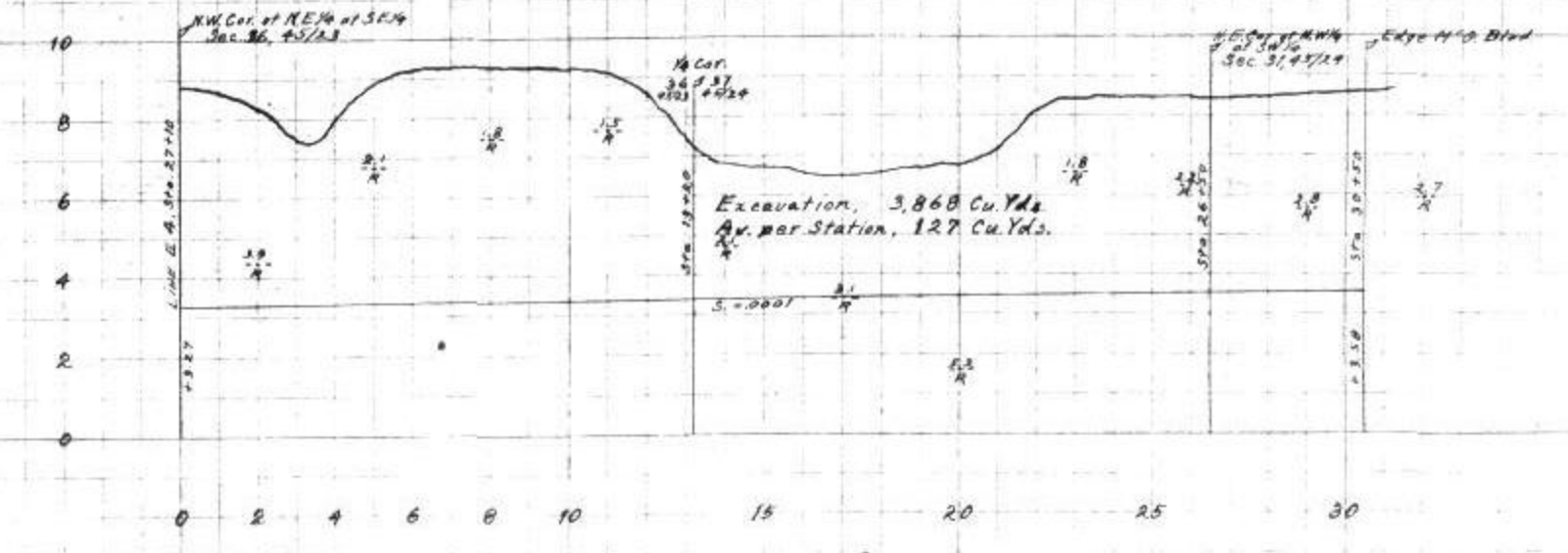
PROFILE
LINE E 2



PROFILE
LINE E 3



PROFILE
LINE E 3a



HYDRAULIC PROPERTIES

S.D.	3.0001
F.D.	3.0001
B.W.	4.0001
A.	10.0001
W.P.	12.34 11.2
H.R.	1.39 1.61
V.	0.355 0.62
Cap.	10. 11.2
n = 0.030 c = 47.49	
Side slope 2:1	

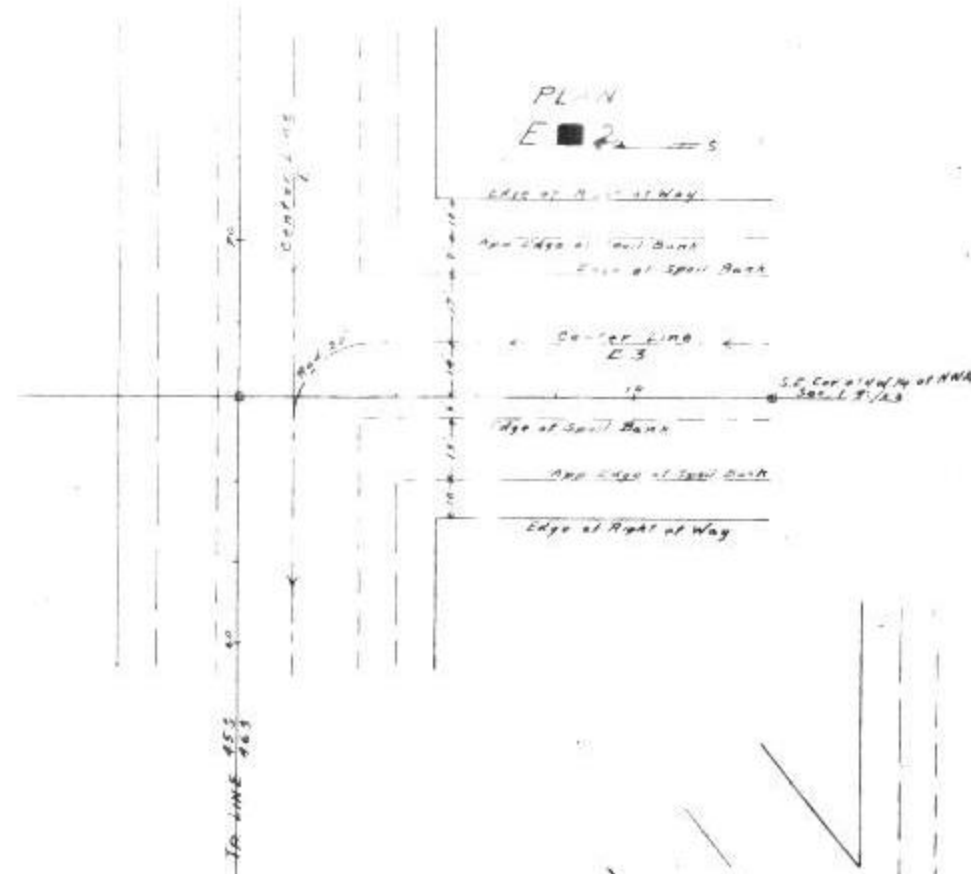
HYDRAULIC PROPERTIES

S.D.	3.0001
F.D.	3.0001
B.W.	4.0001
A.	10.0001
W.P.	12.34 11.2
H.R.	1.39 1.61
V.	0.355 0.62
Cap.	10. 11.2
n = 0.030 c = 47.49	
Side slope 2:1	

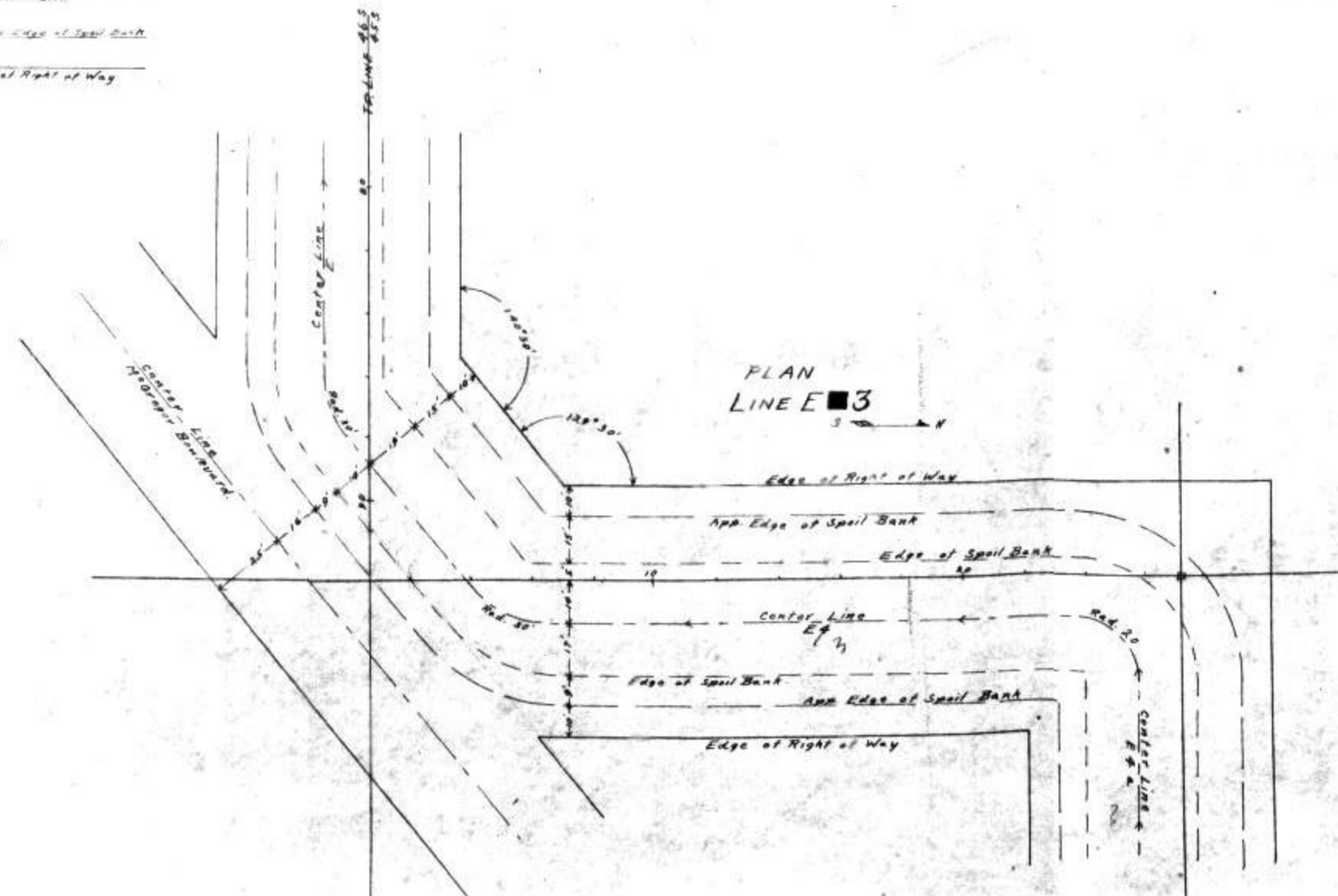
HYDRAULIC PROPERTIES

S.D.	3.0001
F.D.	3.0001
B.W.	4.0001
A.	10.0001
W.P.	12.34 11.2
H.R.	1.39 1.61
V.	0.355 0.62
Cap.	10. 11.2
n = 0.030 c = 47.49	
Side slope 2:1	

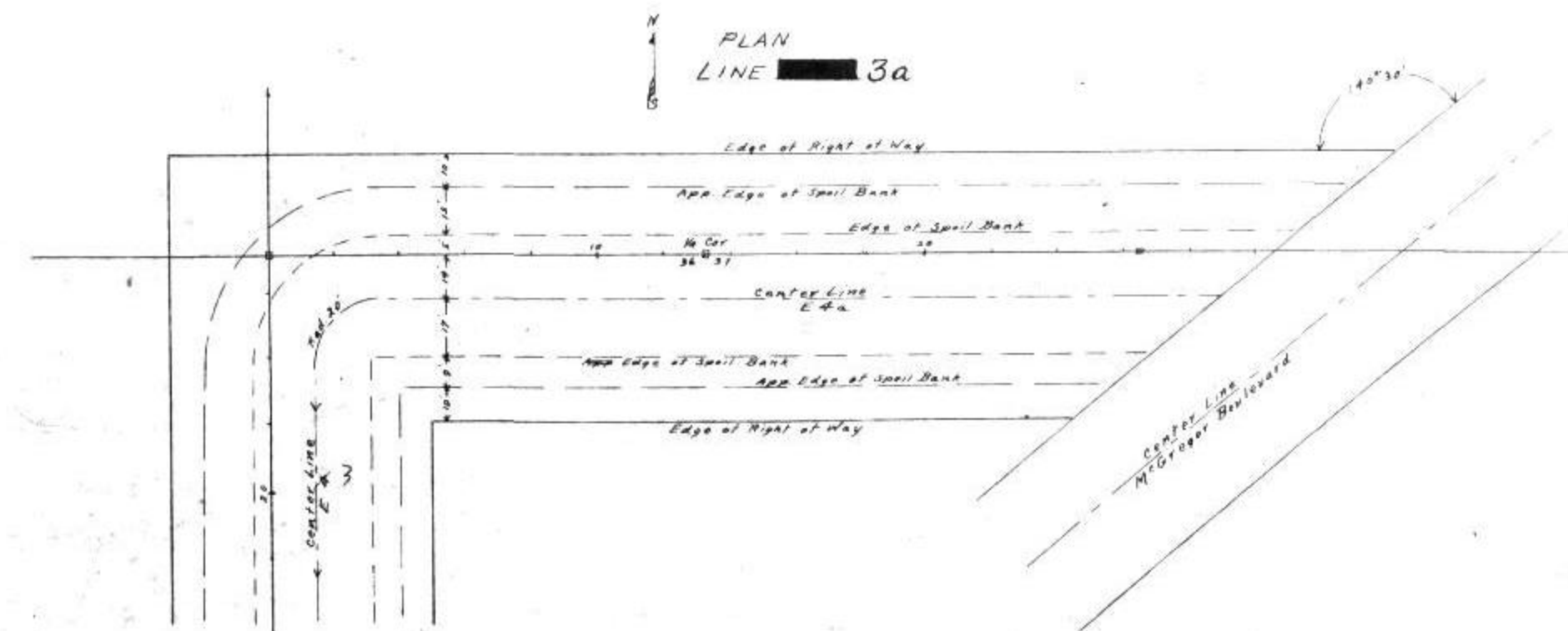
PLAN
LINE E 2



PLAN
LINE E 3



PLAN
LINE E 3a



IONA DRAINAGE DISTRICT

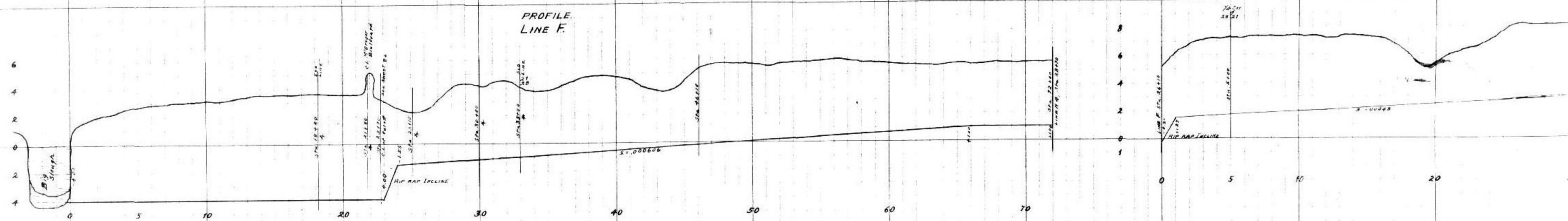
Lee County, Florida

A.L. White,
Civil Engineer

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

Folio B
Sheet 22

PROFILE LINE F 1



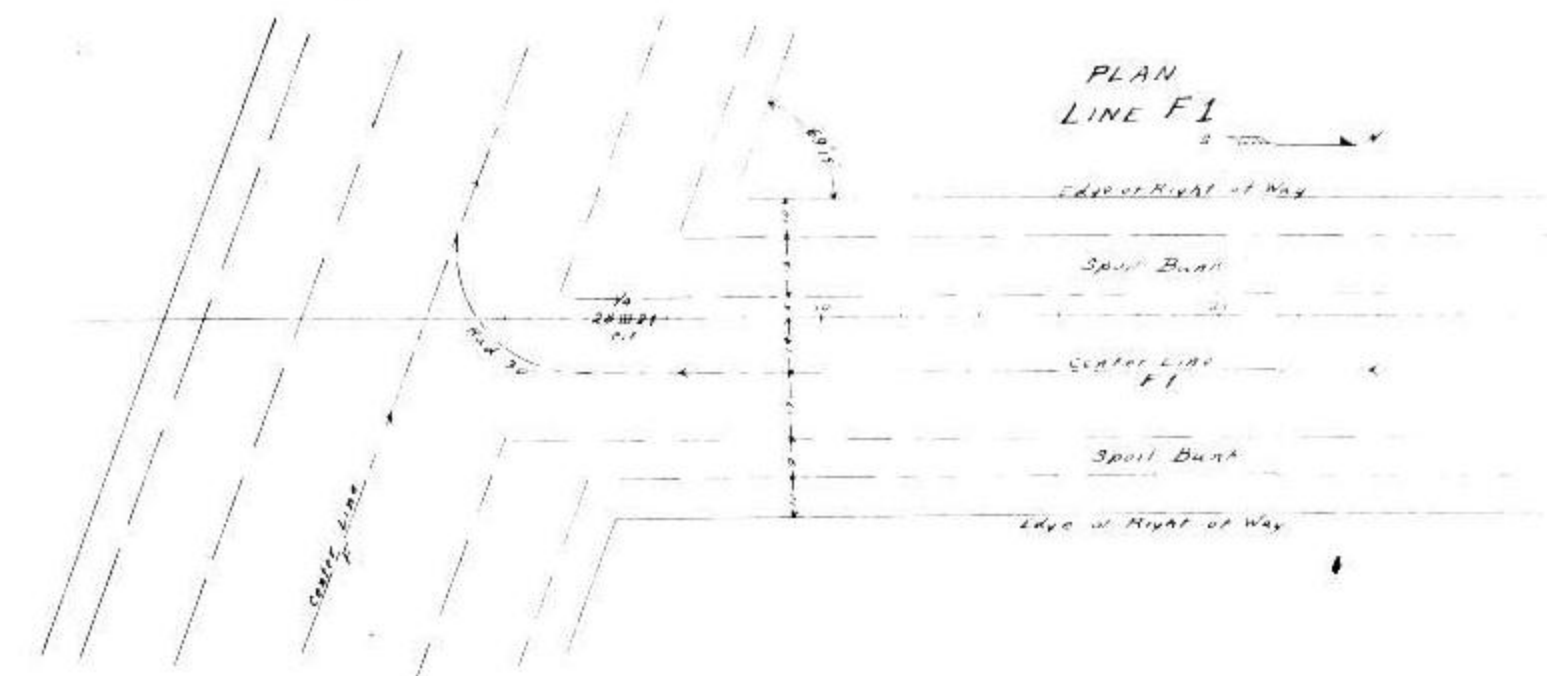
HYDRAULIC PROPERTIES

S	.000606
F.D	3
B.W.	20
A	73.5
W.P.	30.96
H.R.	2.38
V	1.71
Cup	126
n = .035 c = 55	
Side slope 1 1/2:1	

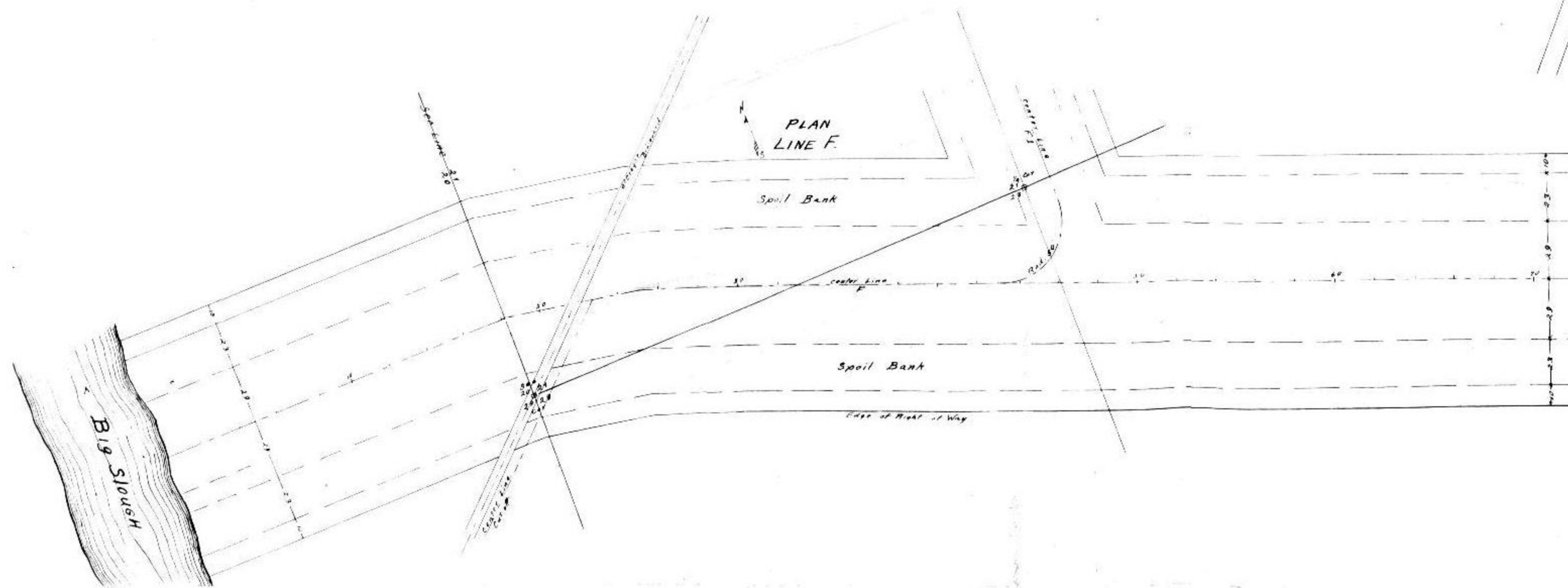
HYDRAULIC PROPERTIES

S	.00048
F.D	3
B.W.	4
A	18
W.P.	11.2
H.R.	1.61
V	1.42
Cup	256
n = .030 c = 81	
Side slope 2:3	

PLAN LINE F 1



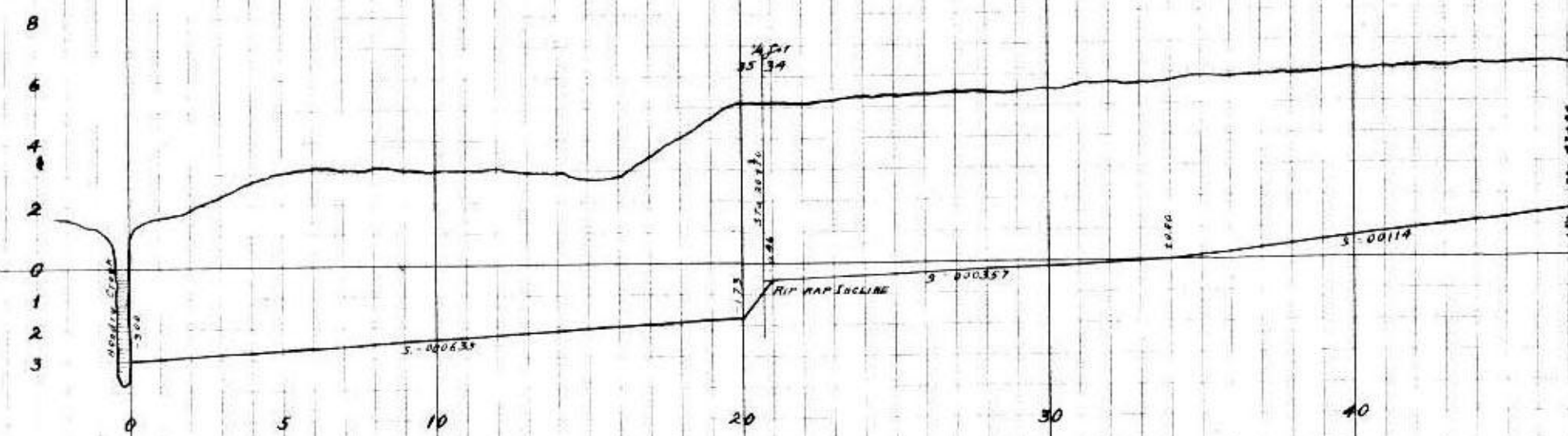
PLAN LINE F



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

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

PROFILE
LINE G



HYDRAULIC PROPERTIES.

S.D. 0.00635
B.W. 3
A. 18
W.P. 11.2
H.R. 1.61
V. 1.63
Cap. 28.4
n=0.030 c=31
Side-slope 2:3

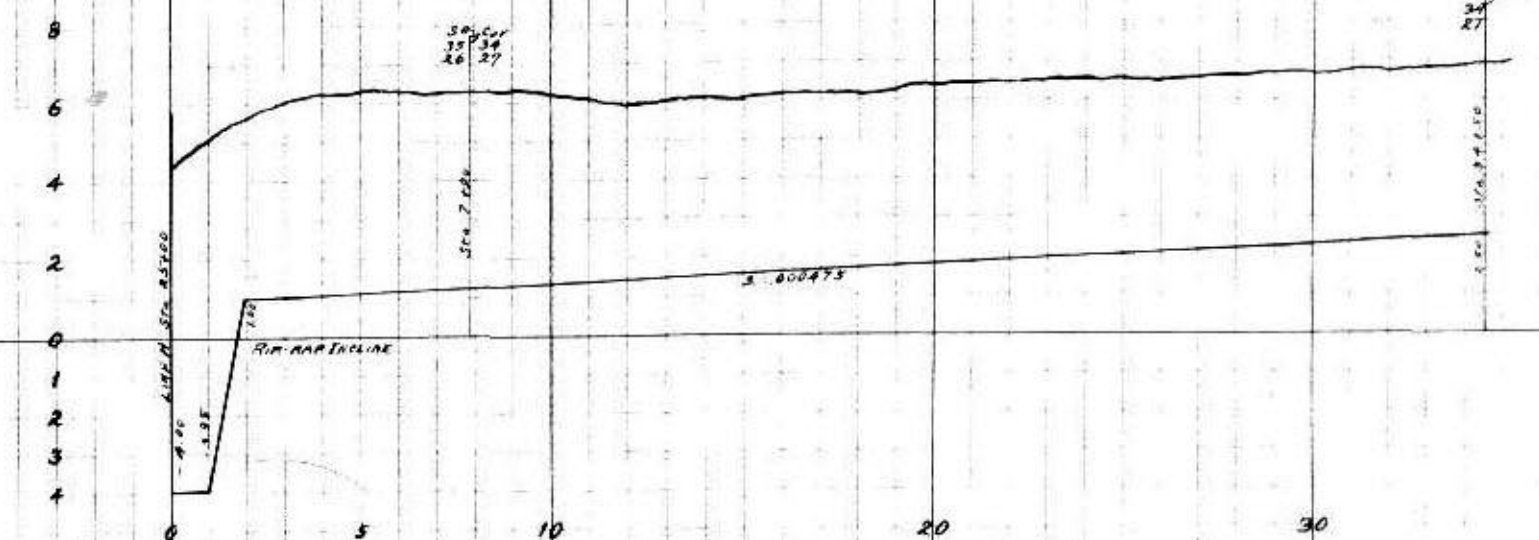
HYDRAULIC PROPERTIES.

S.D. 0.00337
B.W. 2.1
A. 11.34
W.P. 9.82
H.R. 1.16
V. 0.945
Cap. 10.7
n=0.030 c=48
Side-slope 2:3

HYDRAULIC PROPERTIES.

S.D. 0.0114
B.W. 1.2
A. 5.76
W.P. 6.88
H.R. 0.84
V. 1.33
Cap. 7.65
n=0.030 c=43
Side-slope 2:3

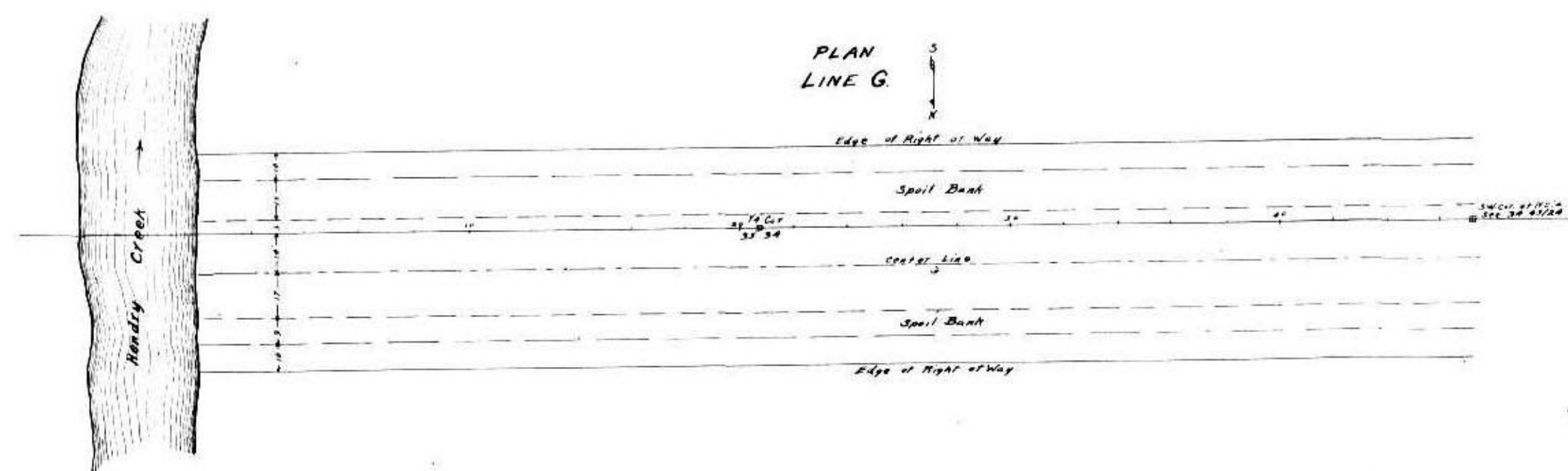
PROFILE
LINE H 1



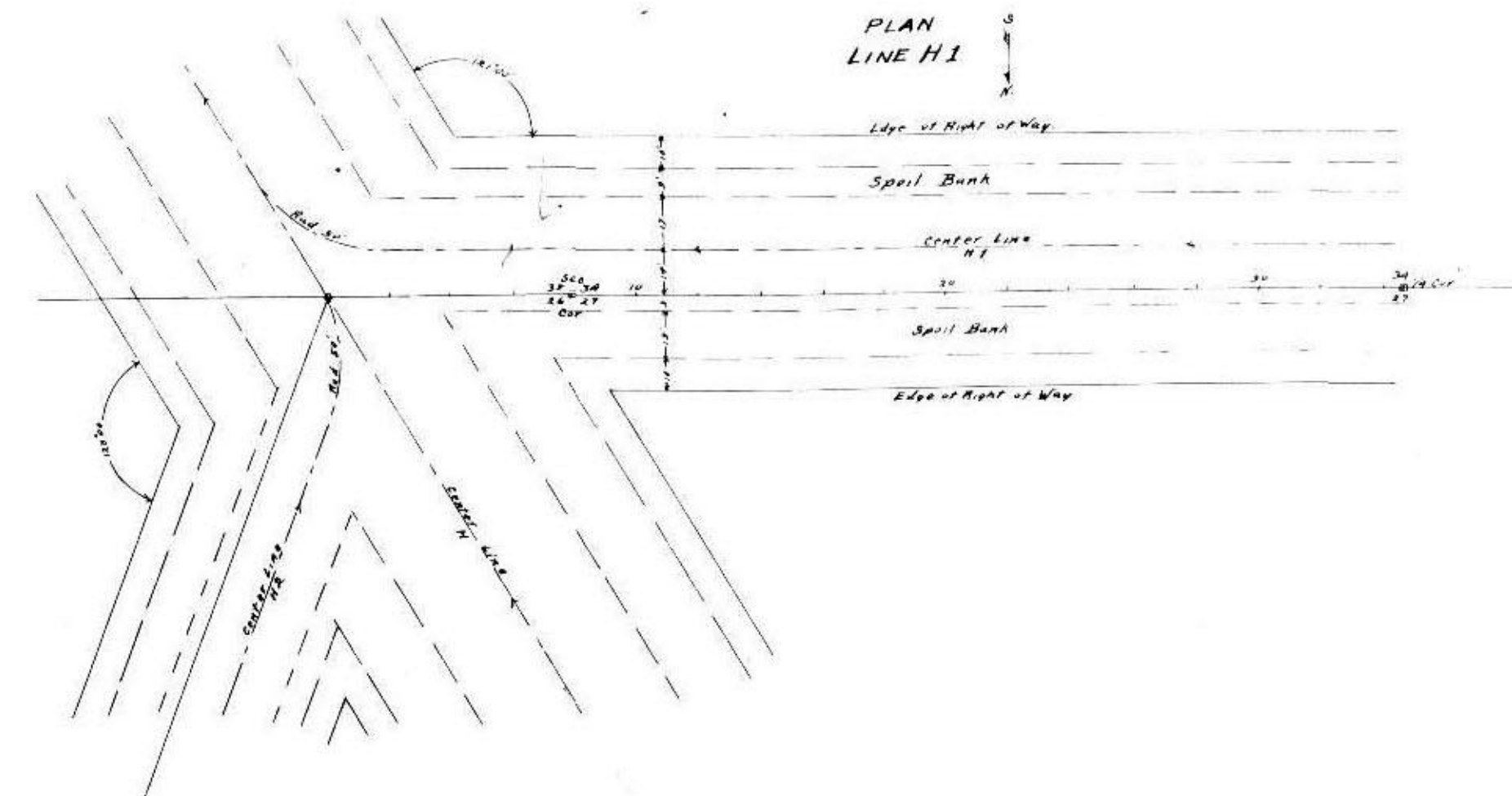
HYDRAULIC PROPERTIES.

S.D. 0.00475
B.W. 3
A. 18
W.P. 11.2
H.R. 1.61
V. 1.63
Cap. 28.4
n=0.030 c=31
Side-slope 2:3

PLAN
LINE G



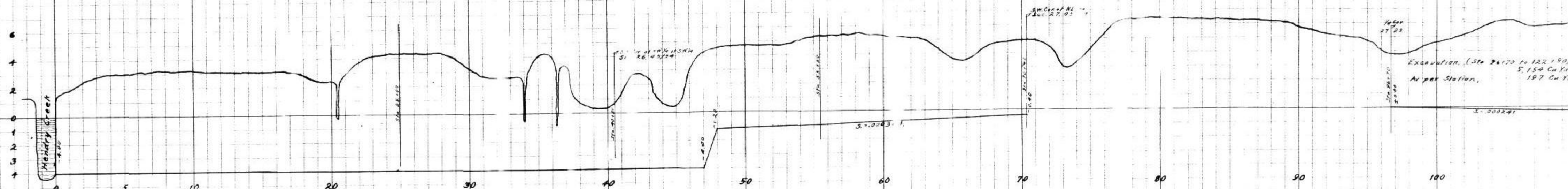
PLAN
LINE H 1



IONA DRAINAGE DISTRICT
Lea County, Florida
A.L.W. Chief Engineer

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

PROFILE
LINE H



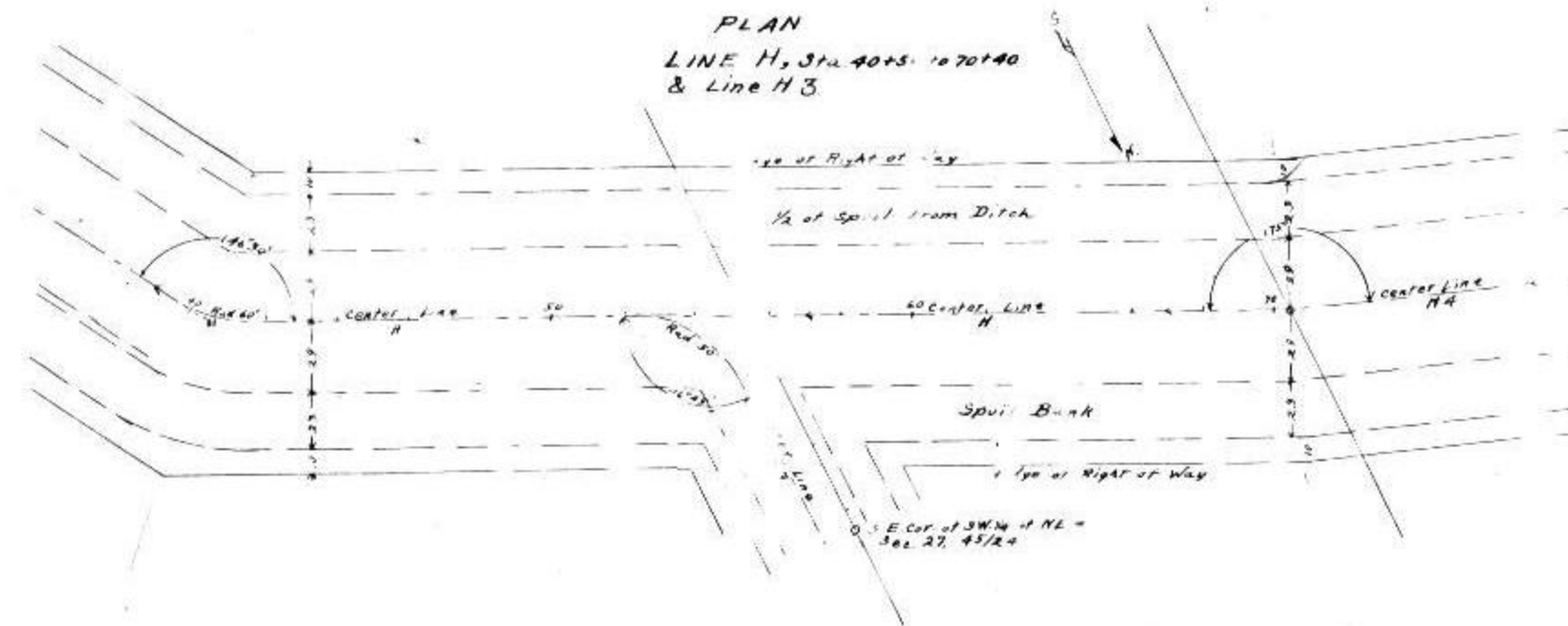
HYDRAULIC PROPERTIES

S (Hydraulic)	.000364
F.D.	3.
B.W.	20
A	28.5
W.P.	10.96
H.R.	2.38
V	1.62
Cap.	19.
Side-slope 1:1	

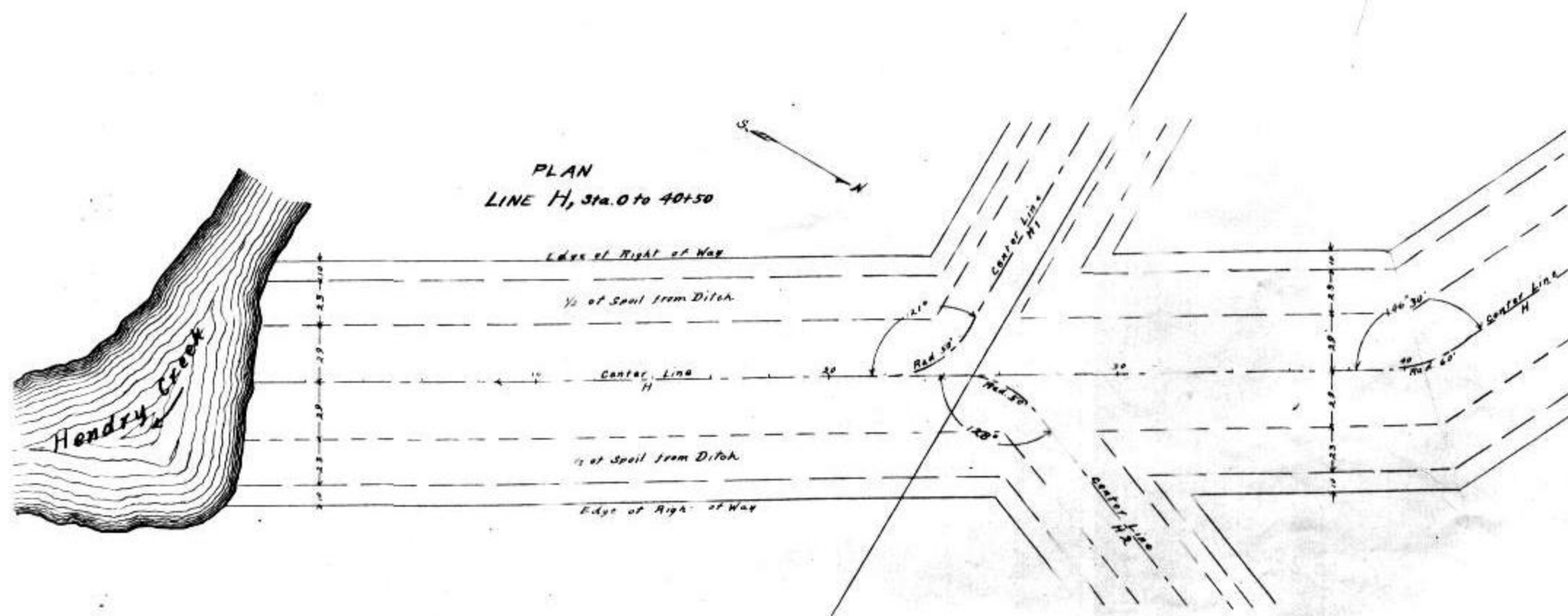
HYDRAULIC PROPERTIES

S	.000241
F.D.	3.
B.W.	6
A	24
W.P.	13.2
H.R.	1.82
V	1.09
Cap.	26.3
Side-slope 2:1	

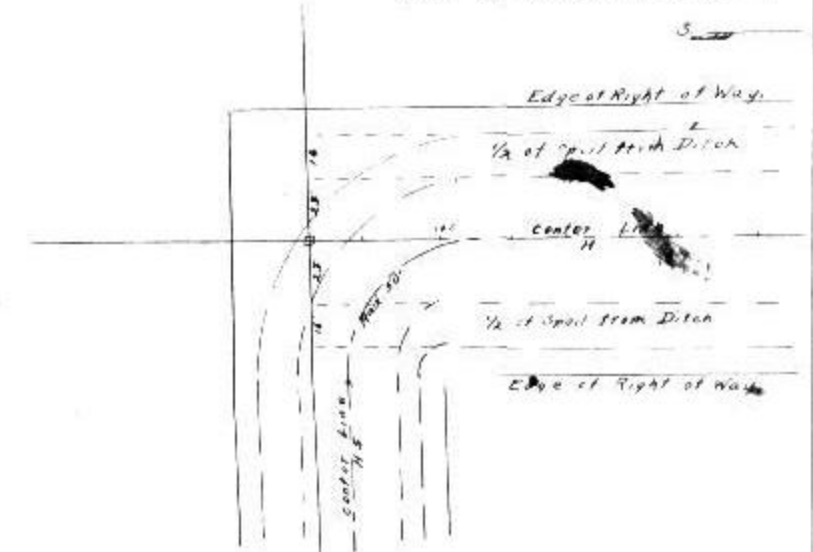
PLAN
LINE H, Sta. 40+5 to 70+00
& Line H 3



PLAN
LINE H, Sta. 0 to 40+50



PLAN
LINE H, Sta. 96+70 to 100+00



IONA DRAINAGE DISTRICT

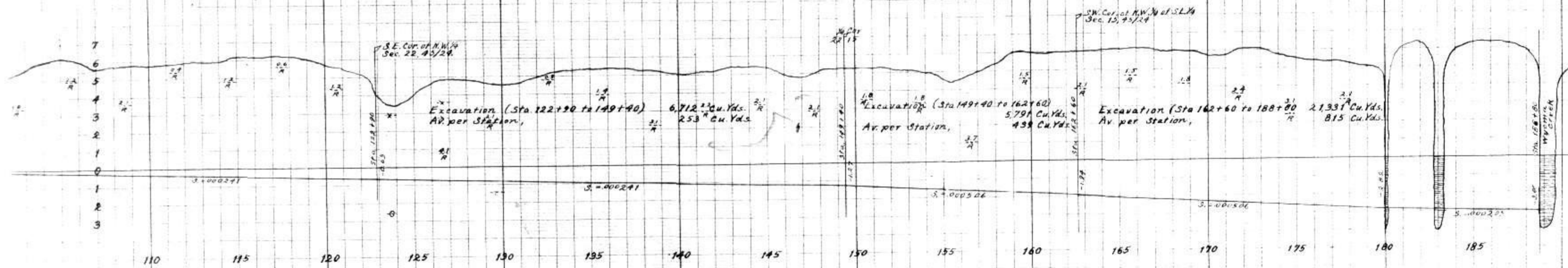
Lee County, Florida.

A.L. White,
Chief Engineer.

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

Folio B
Sheet 25

PROFILE LINE H (Continued)



HYDRAULIC PROPERTIES.

S. .000241
F.D. 3.
B.W. 6.
A. 24.
W.P. 18.2
H.R. 1.82
V. 1.09
Cap. 26.9
n=.0030 c=52.2
Side slope 2:3

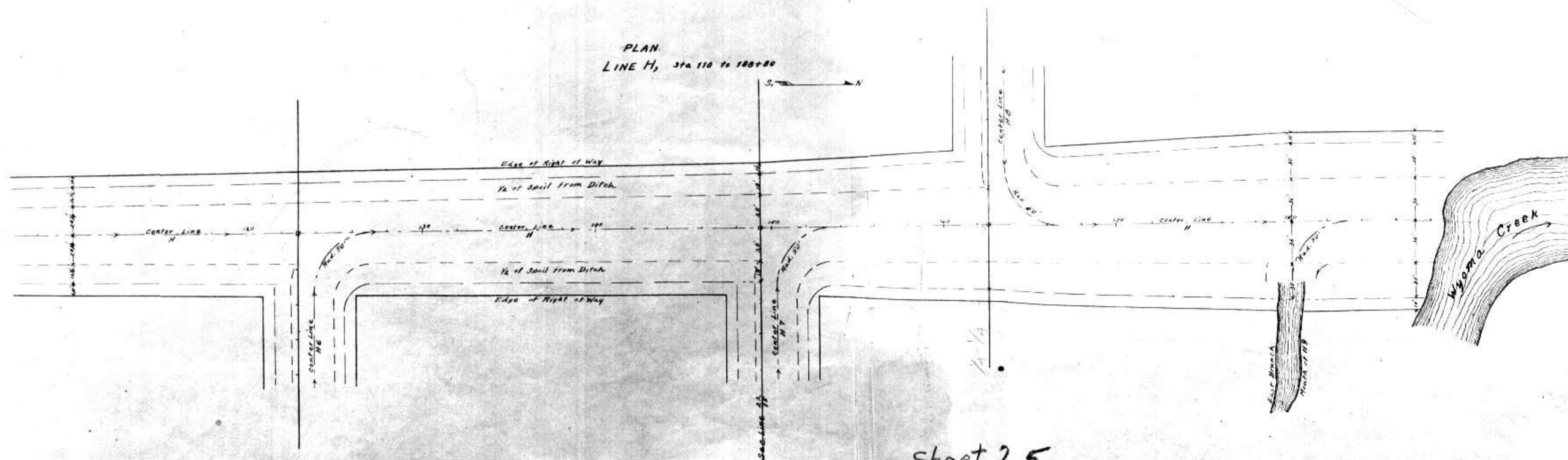
HYDRAULIC PROPERTIES.

S. .000508
F.D. 3.
B.W. 6.
A. 33.
W.P. 16.2
H.R. 2.04
V. 1.74
Cap. 37.4
n=.0030 c=54.2
Side slope 2:3

HYDRAULIC PROPERTIES.

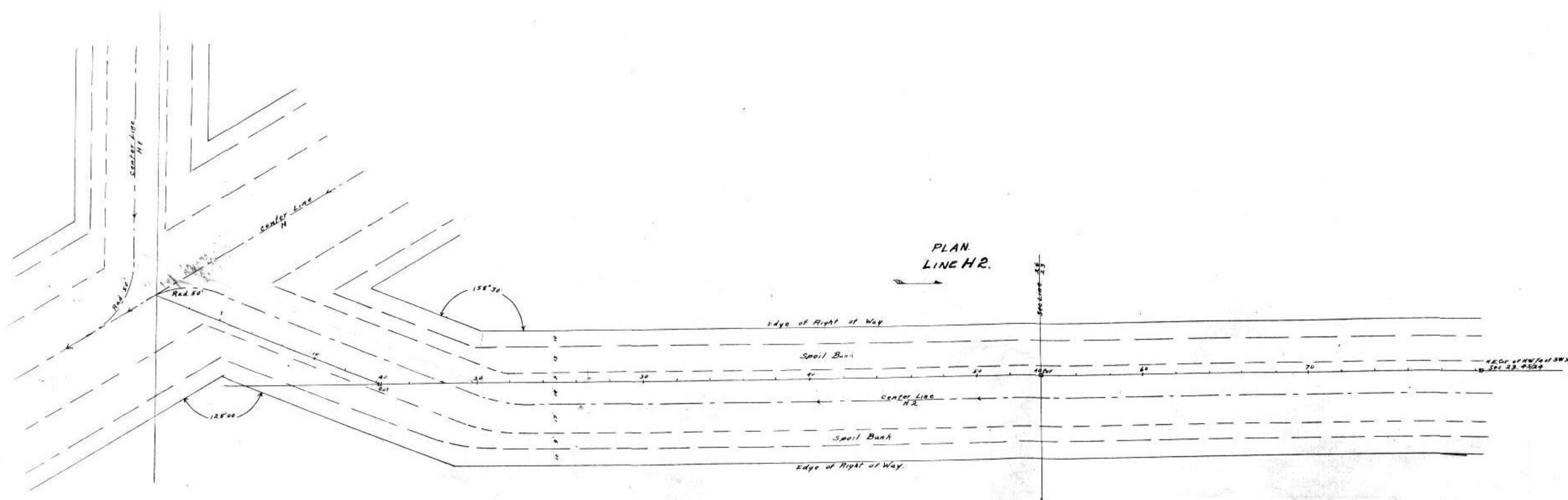
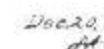
S. .000205
F.D. 3.
B.W. 24.
A. 78.
W.P. 31.0
H.R. 2.00
V. 1.29
Cap. 39.1
n=.0030 c=54.5
Side slope 2:3

PLAN LINE H, Sta 110 to 188+00



Sheet 25

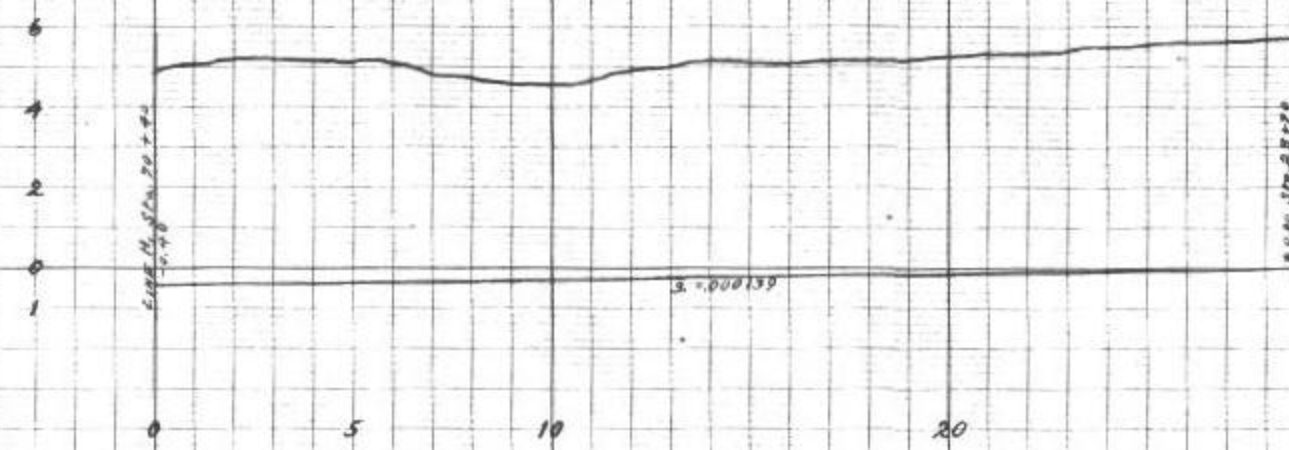
Hor. Scale 1" = 400'
Vert. Scale 1" = 4'



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

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

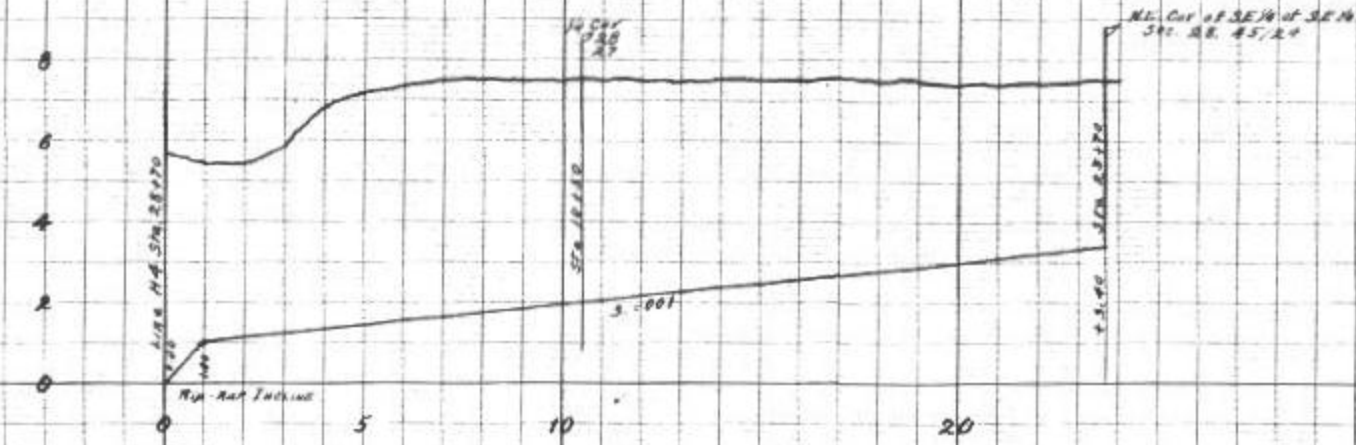
PROFILE
LINE H 4



HYDRAULIC PROPERTIES

S	0.00139
F.D.	3
B.W.	24
A	73.5
W.P.	58.96
H.R.	2.38
V	1.00
Cox	73.5
n=0.030 C=85	
Side slope 1 1/2:1	

PROFILE
LINE H 4a

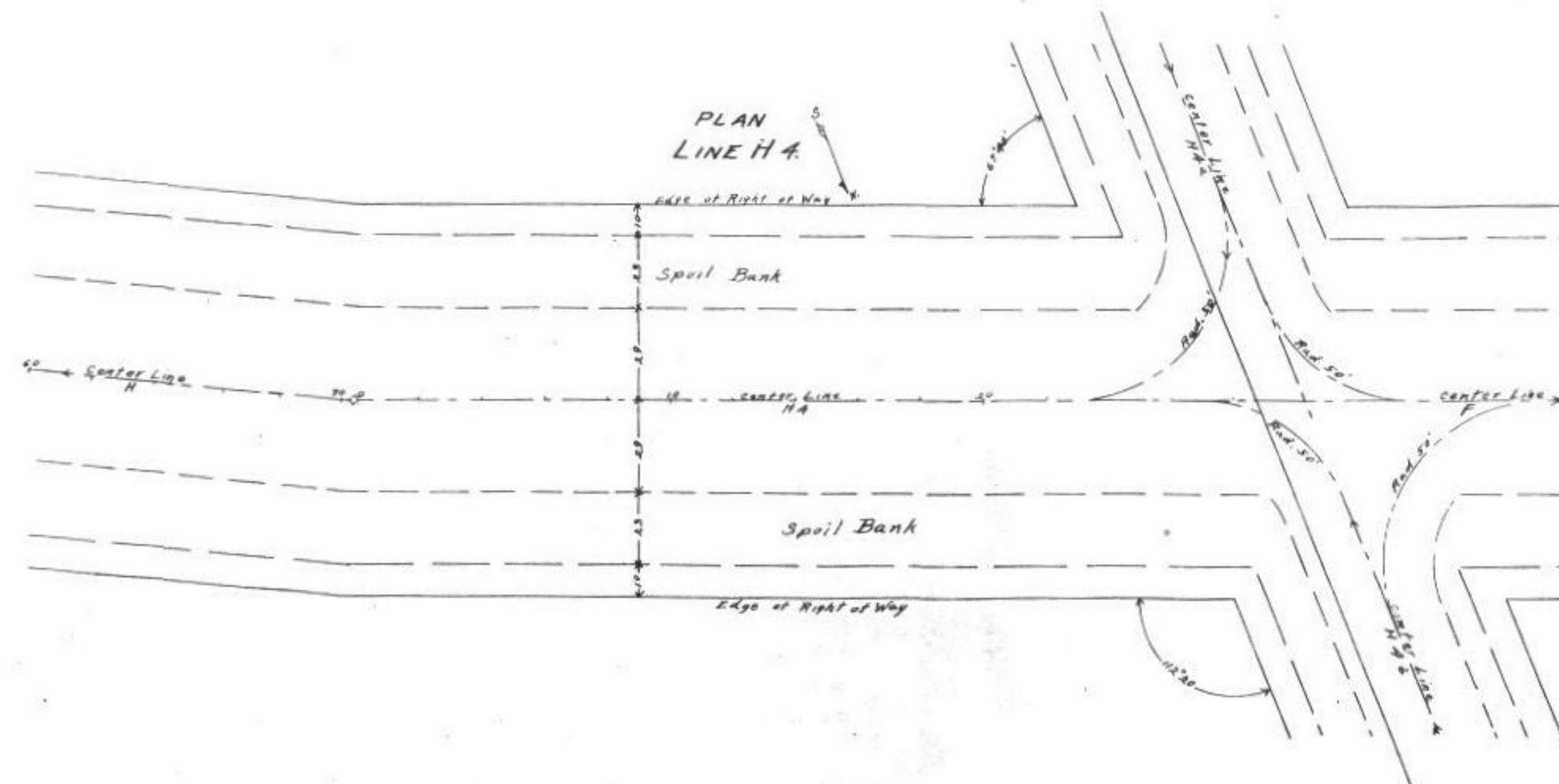


HYDRAULIC PROPERTIES

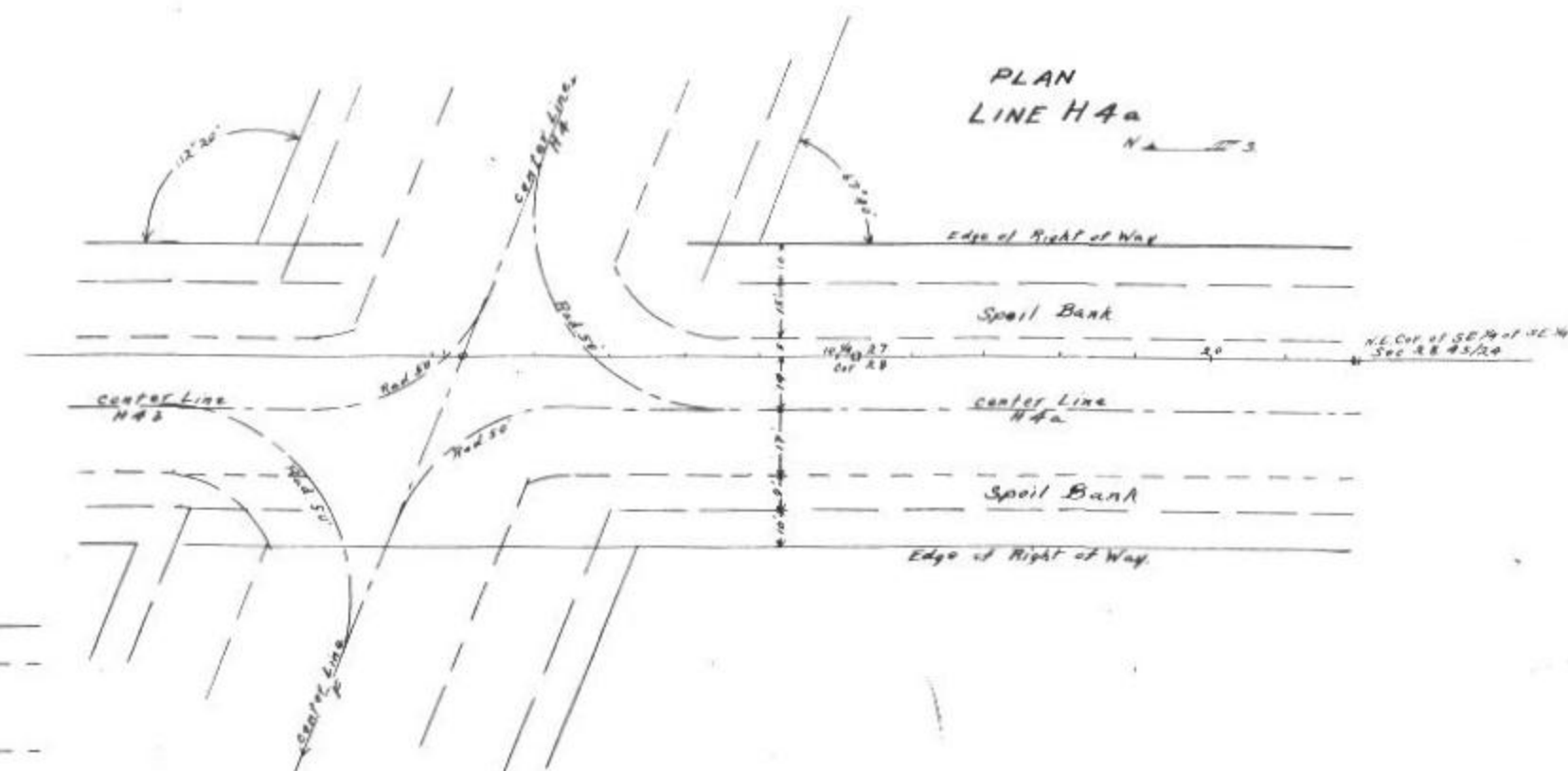
S	0.001
F.D.	10
B.W.	4
A	936
W.P.	802
H.R.	1.12
V	1.55
Cox	195
n=0.030 C=85	
Side slope 2:1	

Dec. 20
A.L.

PLAN
LINE H 4



PLAN
LINE H 4a



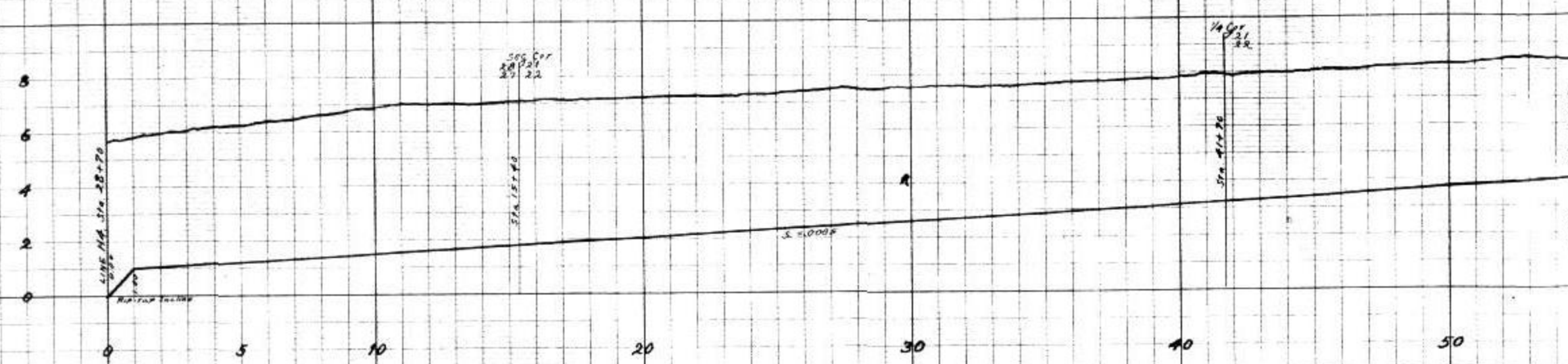
IOHA DRAINAGE DISTRICT
Lee County, Florida.

A.L. White,
Chief Engineer

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

Folio B
Sheet 2B

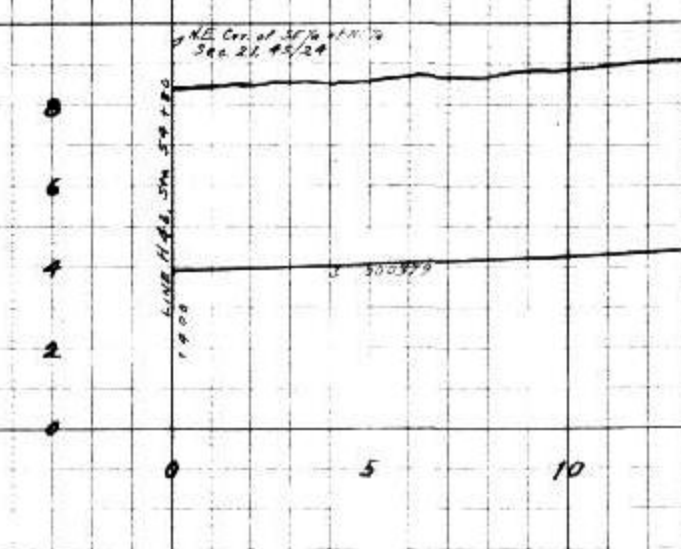
PROFILE
LINE H48



HYDRAULIC PROPERTIES

S	0.005
FD	3
BW	4
A	18
W.P.	11.2
H.R.	1.61
V	1.45
Cap	26.2
n	0.030 c=31
Side slope	2:3

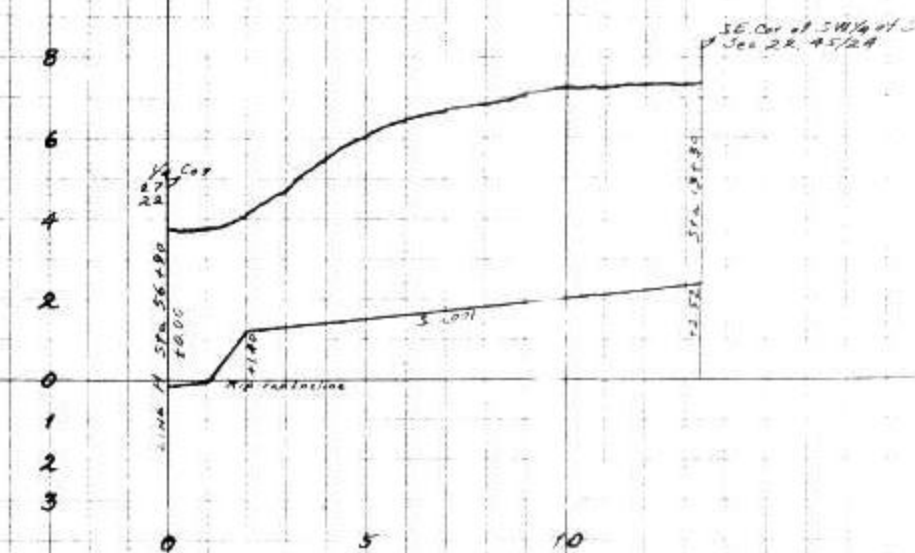
PROFILE
LINE H481



HYDRAULIC PROPERTIES

S	0.00372
FD	2.4
BW	4
A	13.48
W.P.	9.76
H.R.	1.96
V	1.51
Cap	15
n	0.030 c=46.6
Side slope	2:3

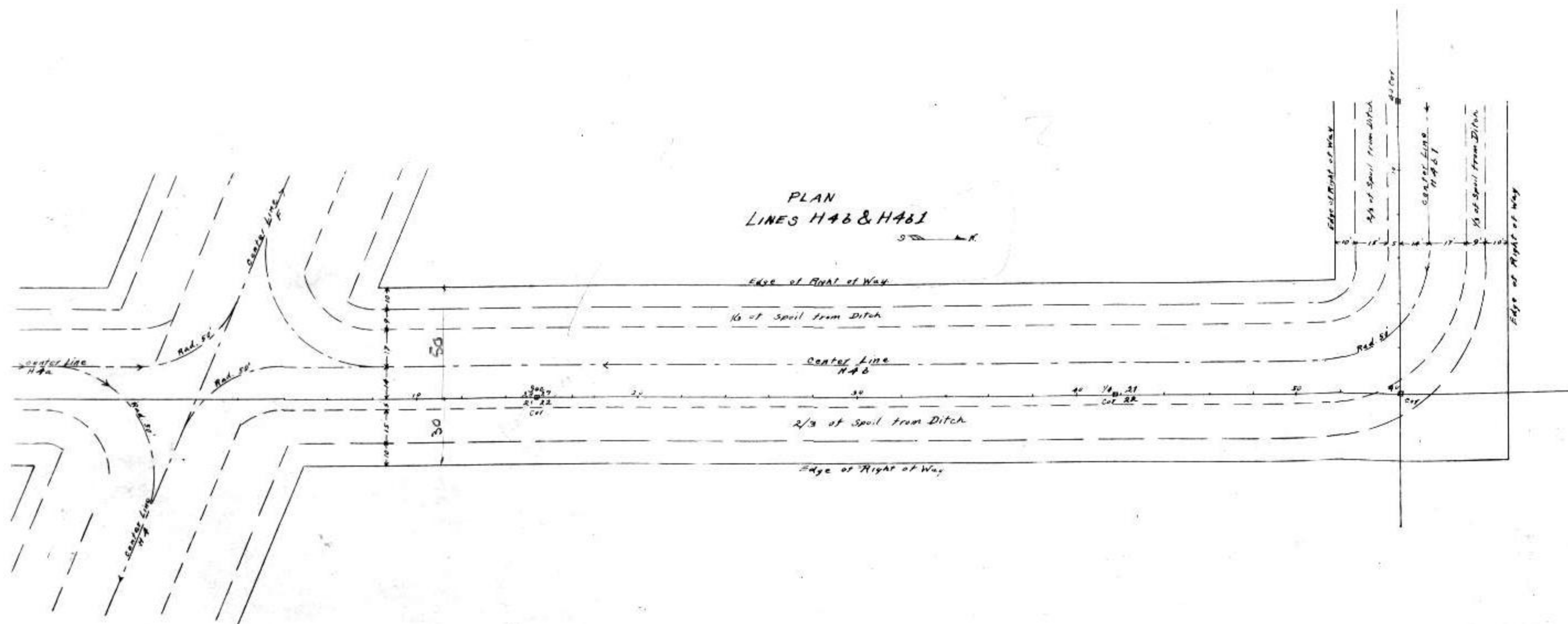
PROFILE
LINE H5



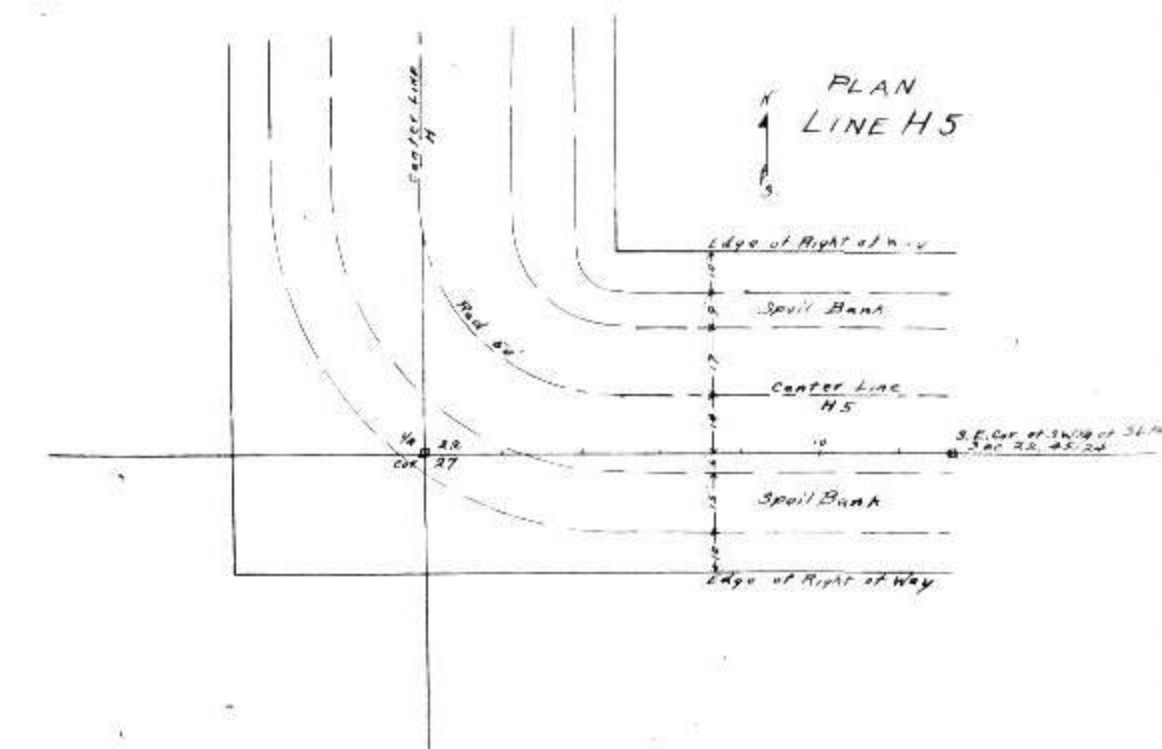
HYDRAULIC PROPERTIES

S	0.001
FD	1.8
BW	4
A	3.36
W.P.	8.32
H.R.	1.12
V	1.55
Cap	14.5
n	0.030 c=46.2
Side slope	2:3

PLAN
LINES H48 & H481



PLAN
LINE H5



YONA DRAINAGE DISTRICT

Lee County, Florida

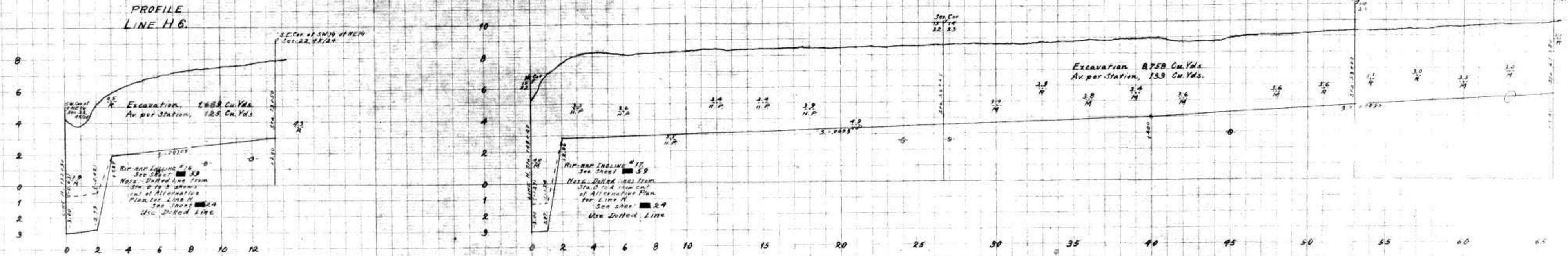
A.L. White,

Chief Engineer

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

Folio B
Sheet 29

PROFILE
LINE H 7.



HYDRAULIC PROPERTIES.

S.	.00105
F.D.	1.5
B.W.	4.
A.	7.5
W.P.	7.6
H.R.	0.99
V.	1.45
Cap.	10.9
n	.030 c=45
Side-slope	2:3

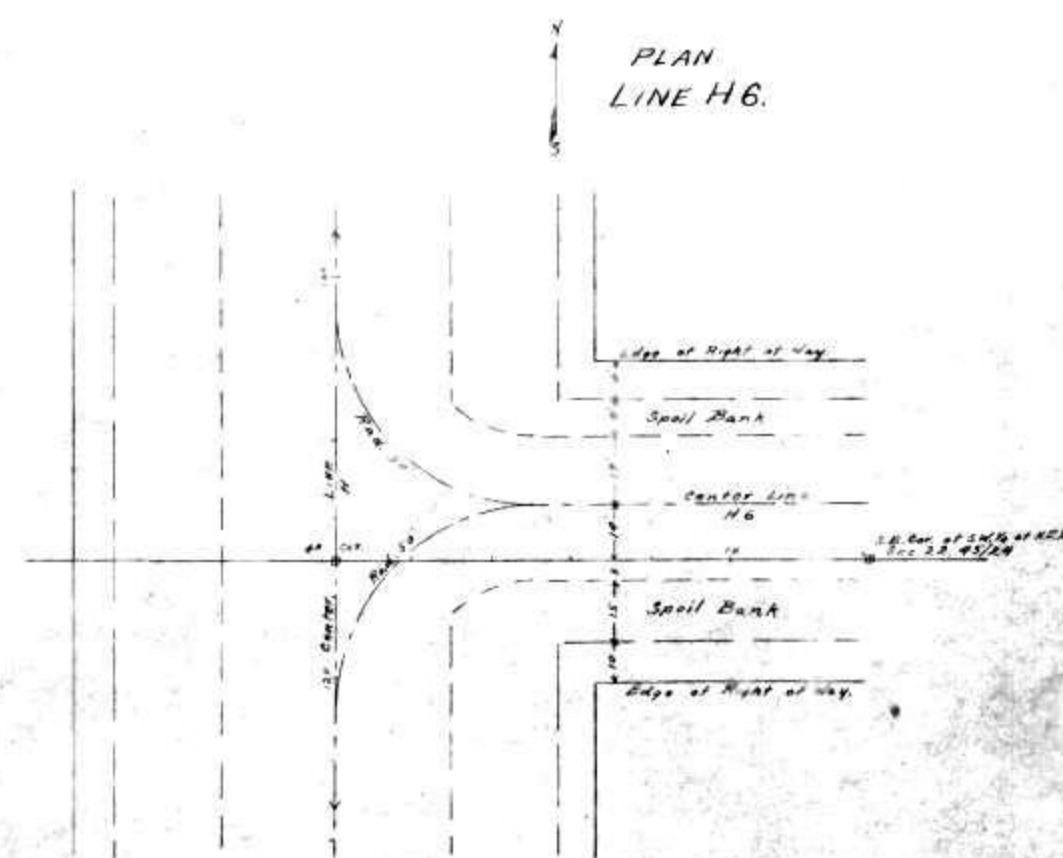
HYDRAULIC PROPERTIES.

S.	.0003
F.D.	3.
B.W.	8.
A.	10.
W.P.	11.2
H.R.	1.61
V.	1.46
Cap.	25.2
n	.030 c=51
Side-slope	2:3

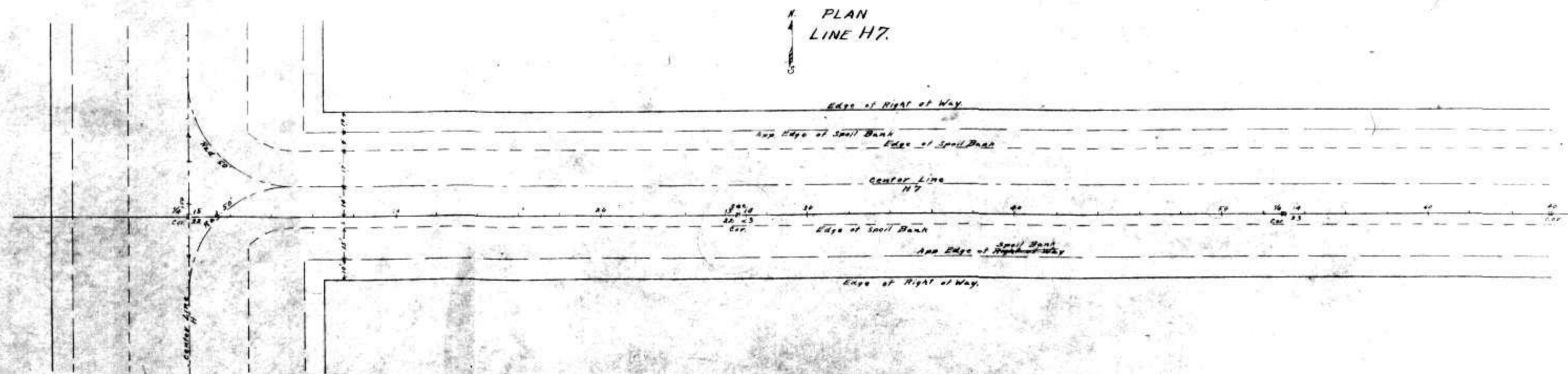
HYDRAULIC PROPERTIES.

S.	.00055
F.D.	1.8
B.W.	4.
A.	9.36
W.P.	9.32
H.R.	1.12
V.	1.14
Cap.	10.7
n	.030 c=46
Side-slope	2:3

PLAN
LINE H 6.



PLAN
LINE H 7.

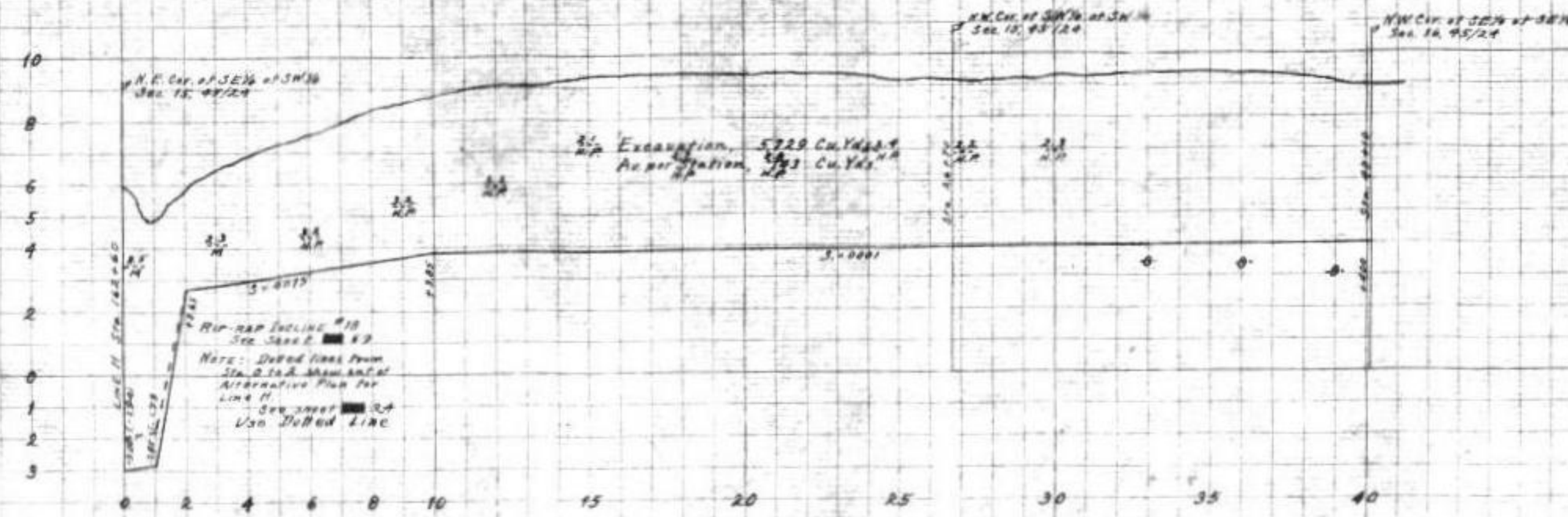


Sheet 29

Iona Drainage District
Lee County, Florida
ALWHITE
Chief Engineer

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

PROFILE
LINE H 8



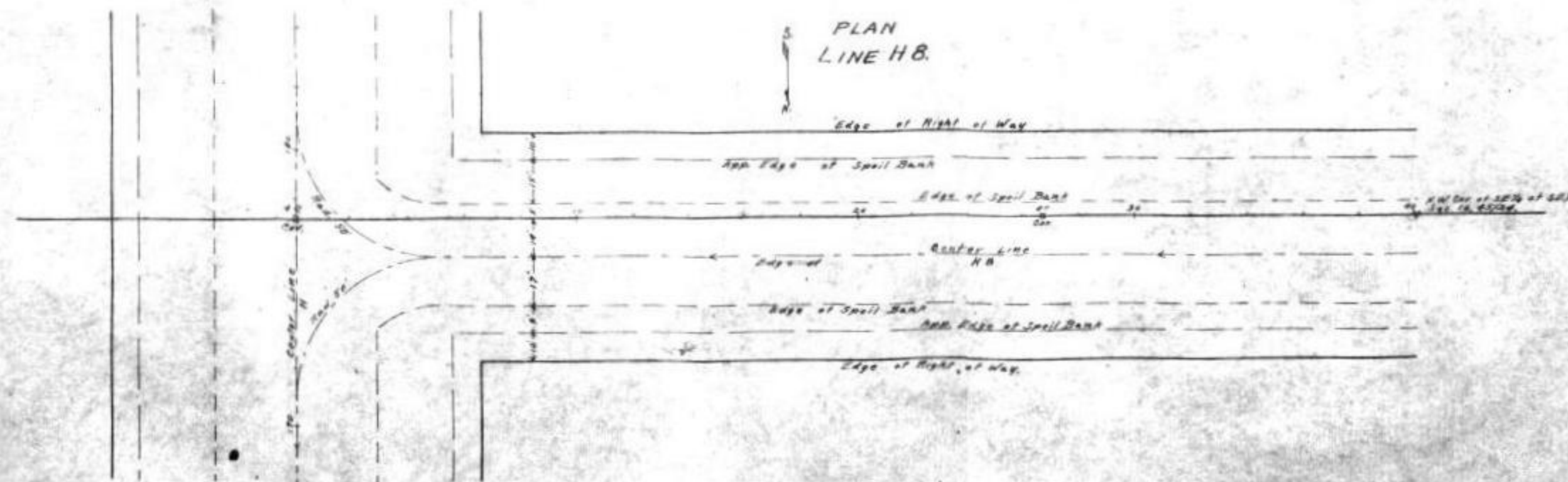
HYDRAULIC PROPERTIES.

S	.0015
F.D.	1.2
B.W.	4
A	5.76
W.P.	6.88
H.R.	0.88
V	1.59
Cox	8.6
M. 0.0015 C. 4.45	
Side slope 2:3	

HYDRAULIC PROPERTIES.

S	.0001
F.D.	3
B.W.	4
A	18
W.P.	11.2
H.R.	1.61
V	0.42
Cox	11.2
M. 0.0001 C. 4.45	
Side slope 2:3	

PLAN
LINE H 8



IONA DRAINAGE DISTRICT
Lee County, Florida.

A. L. White,
Chief Engineer.

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

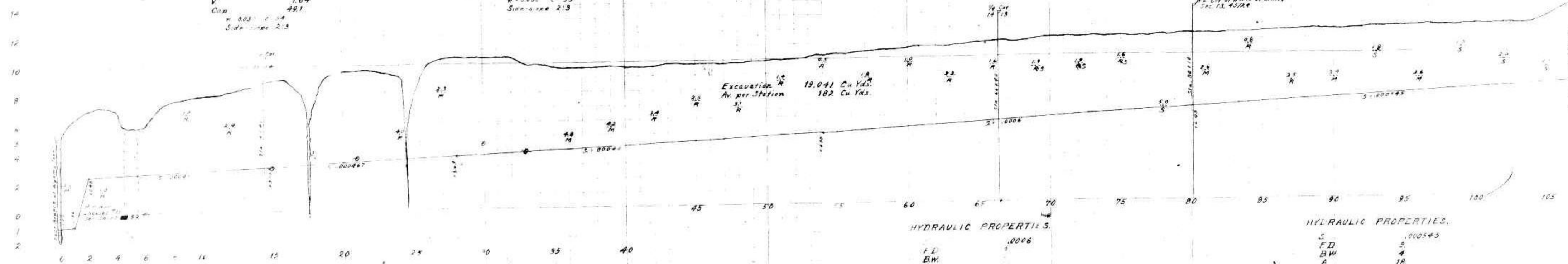
HYDRAULIC PROPERTIES

S .00047
F.D. 3
B.W. 2
A 27
W/P 14.2
H.R. 1.9
V 1.53
Cap. 41.3
n .0030 c 53
Side slope 2:1

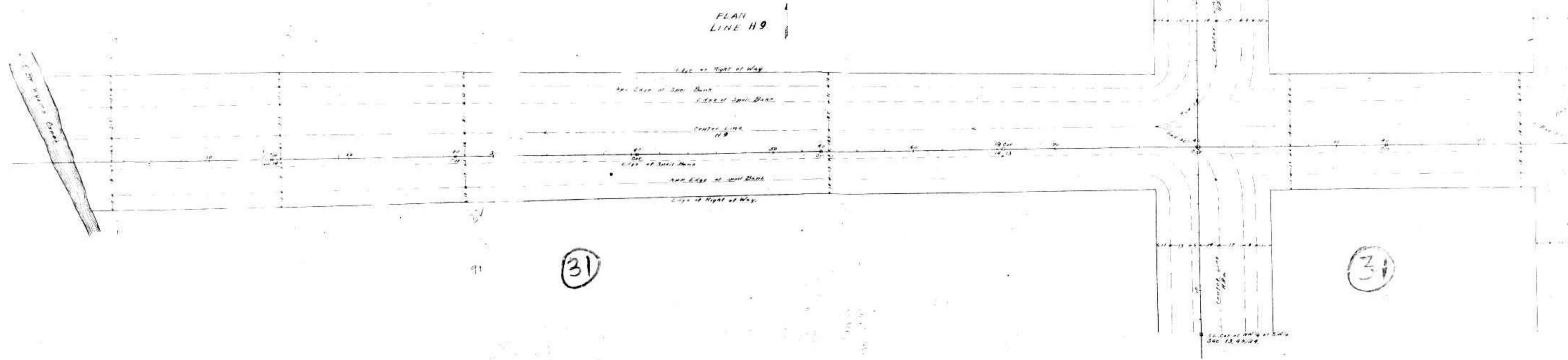
HYDRAULIC PROPERTIES

S .00044
F.D. 3
B.W. 2
A 27
W/P 14.2
H.R. 1.9
V 1.53
Cap. 41.3
n .0030 c 53
Side slope 2:1

PROFILE
LINE H 9.



PLAN
LINE H 9



31

31

IONA DRAINAGE DISTRICT

ee County, Florida

A.L. White
Chief Engineer

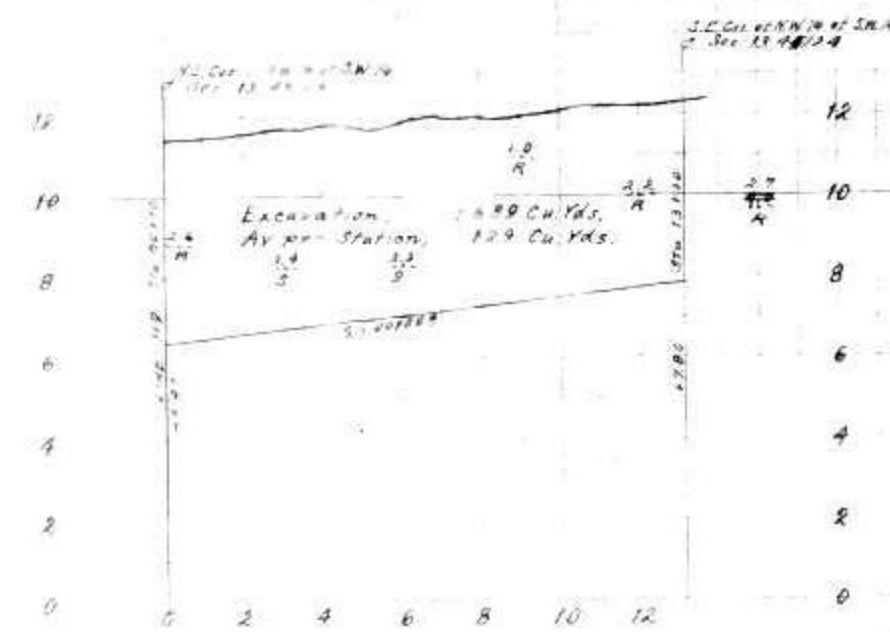
Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

Folio B
Sheet 32

HYDRAULIC PROPERTIES

S	.00185
F.D	1
B.W	4
A	4.67
W.P	6.4
H.R	0.73
V	1.50
Cap	6.85
n	0.030 c. 41
Side slope	2:3
For Plan, see below	

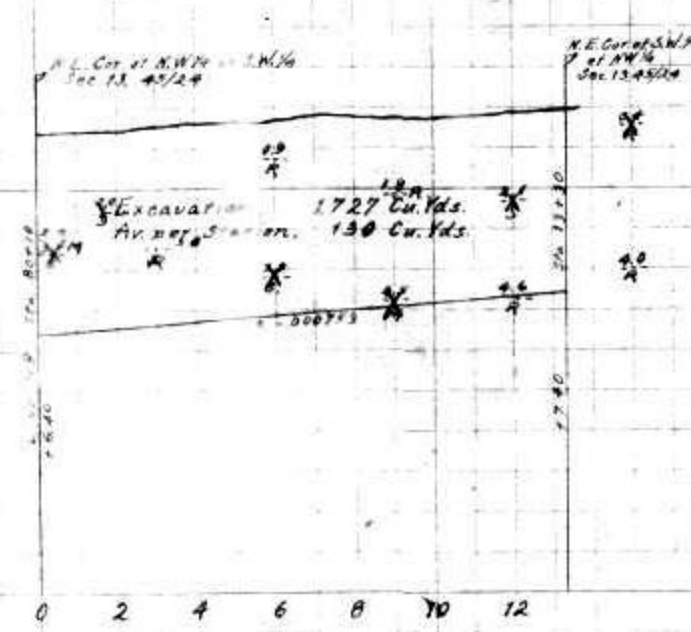
PROFILE
LINE H 9a



HYDRAULIC PROPERTIES

S	.00185
F.D	1
B.W	4
A	4.67
W.P	6.40
H.R	0.73
V	1.50
Cap	6.85
n	0.030 c. 40.9
Side slope	2:3
For Plan, see Sheet 31	

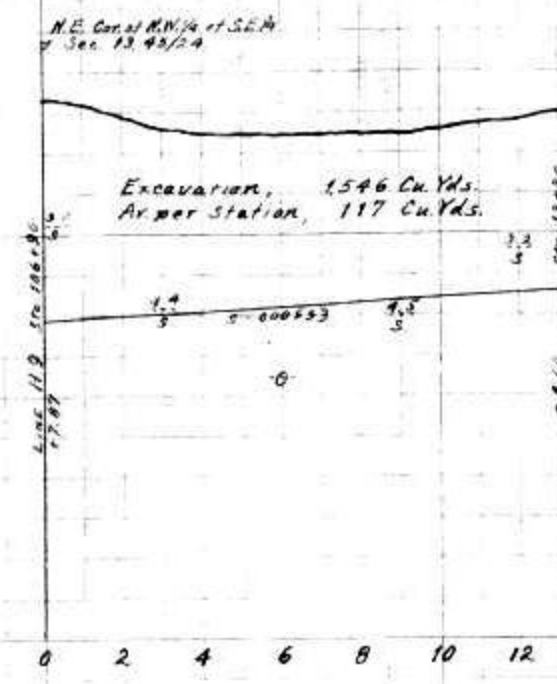
PROFILE
LINE H 9b



HYDRAULIC PROPERTIES

S	.000753
F.D	1
B.W	4
A	4.67
W.P	6.40
H.R	0.73
V	0.96
Cap	4.48
n	0.030 c. 40.9
Side slope	2:3
For Plan, see Sheet 31	

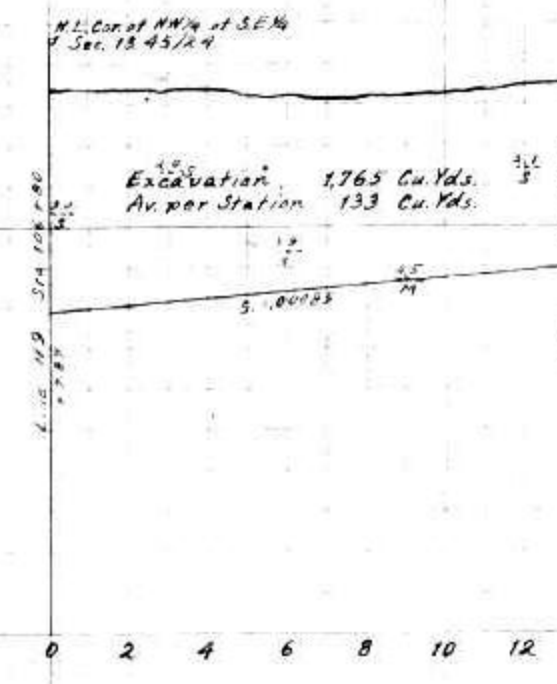
PROFILE
LINE H 9c



HYDRAULIC PROPERTIES

S	.000553
F.D	1.2
B.W	4
A	5.76
W.P	6.88
H.R	0.84
V	0.92
Cap	5.30
n	0.030 c. 42.6
Side slope	2:3
For Plan, see Sheet 31	

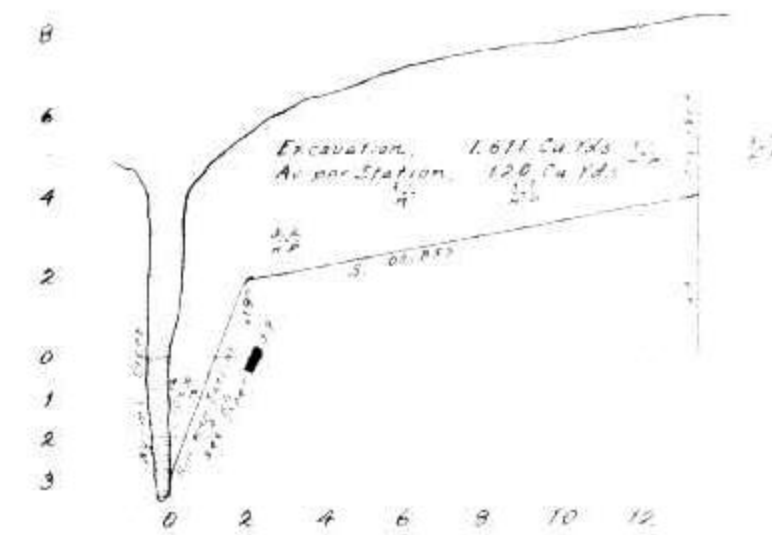
PROFILE
LINE H 9d



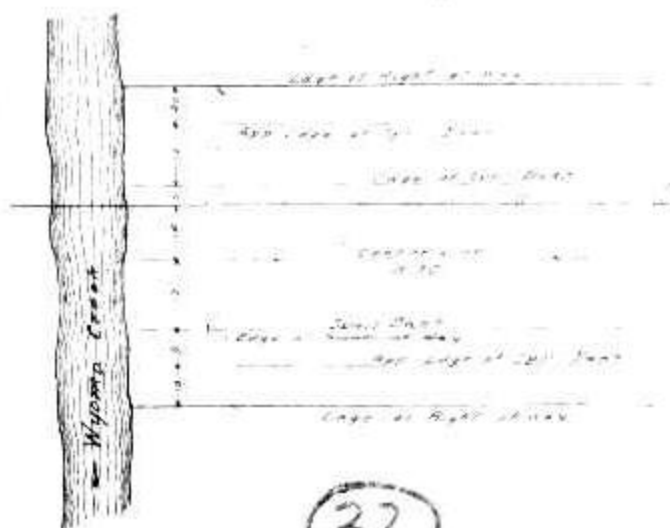
HYDRAULIC PROPERTIES

S	.00085
F.D	1.2
B.W	4
A	5.76
W.P	6.88
H.R	0.92
V	1.14
Cap	6.55
n	0.030 c. 42.6
Side slope	2:3
For Plan, see sheet 31	

PROFILE
LINE H 10



PLAN
LINE H 10



32

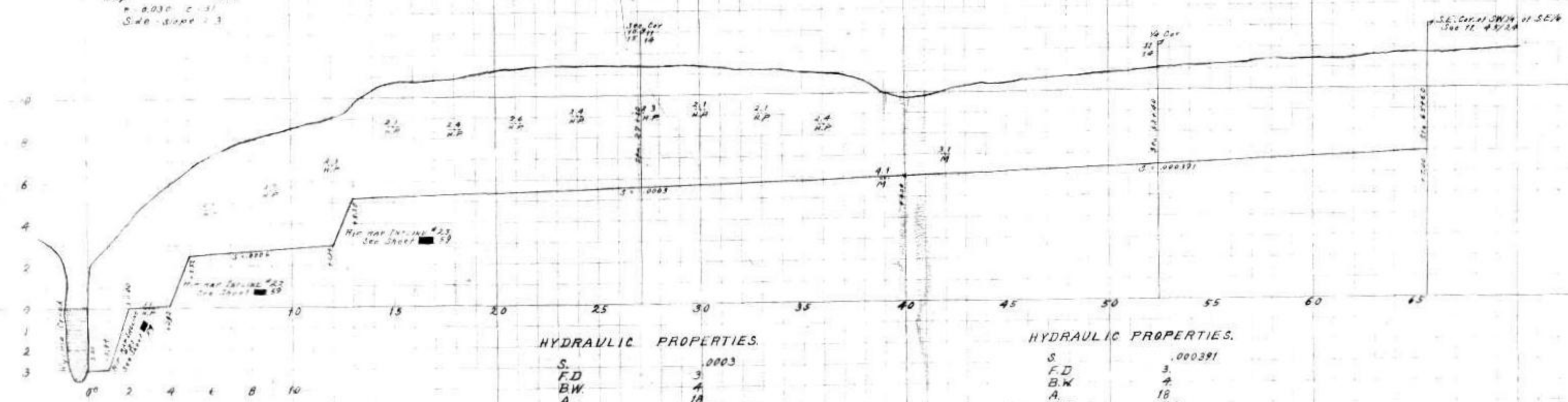
IONA DRAINAGE DISTRICT
Lee County Florida
A.L. White,
Chief Engineer

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

HYDRAULIC PROPERTIES

S	.0006
FD	3
BW	4
A	18
WP	11.2
HR	1.61
V	1.58
Cap	28.4
n=.030 c=.31	
Side slope 2:3	

PROFILE
LINE H 11



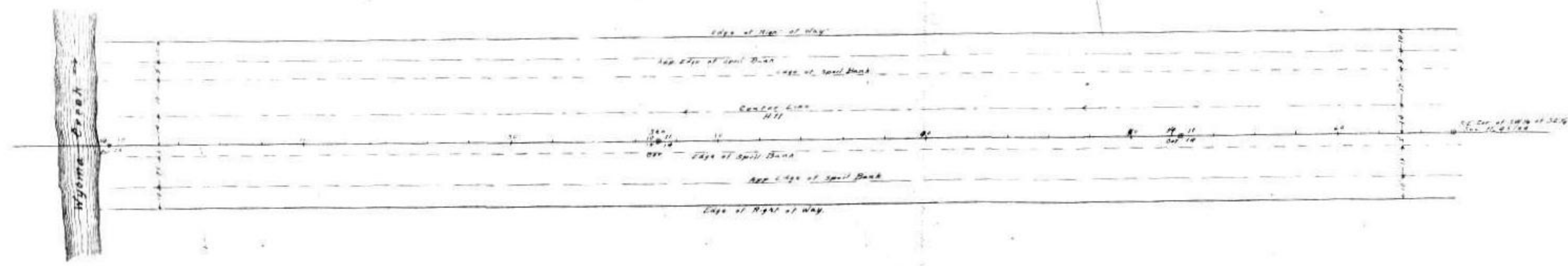
HYDRAULIC PROPERTIES

S	.0003
FD	3
BW	4
A	18
WP	11.2
HR	1.61
V	1.11
Cap	28.0
n=.030 c=.304	
Side slope 2:3	

HYDRAULIC PROPERTIES

S	.000391
FD	3
BW	4
A	18
WP	11.2
HR	1.61
V	1.27
Cap	22.8
n=.030 c=.308	
Side slope 2:3	

PLAN
LINE H 11



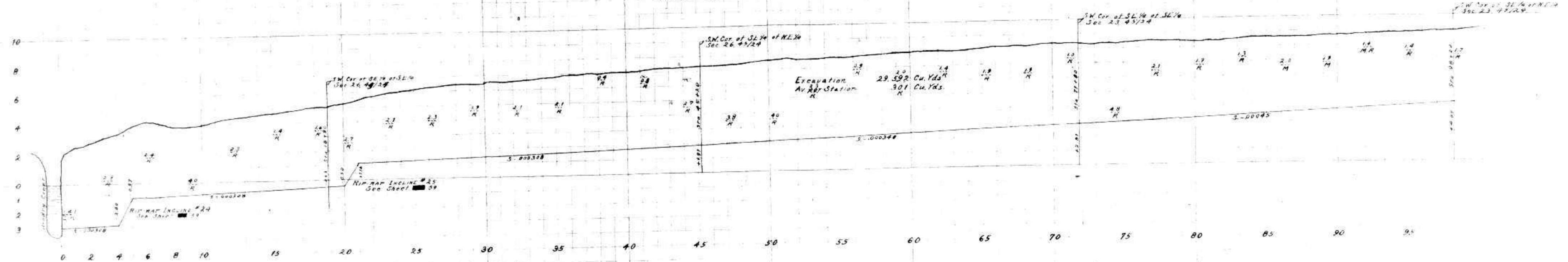
IONA DRAINAGE DISTRICT

Lee County, Florida

A.L. White,
Chief Engineer

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

PROFILE LINE I



HYDRAULIC PROPERTIES

S	.000308
FD	3
BW	18
A	60
WP	25.2
H.R.	2.38
V	1.51
Cap	90.5
n	.0030 c=55
Side slope	2:3

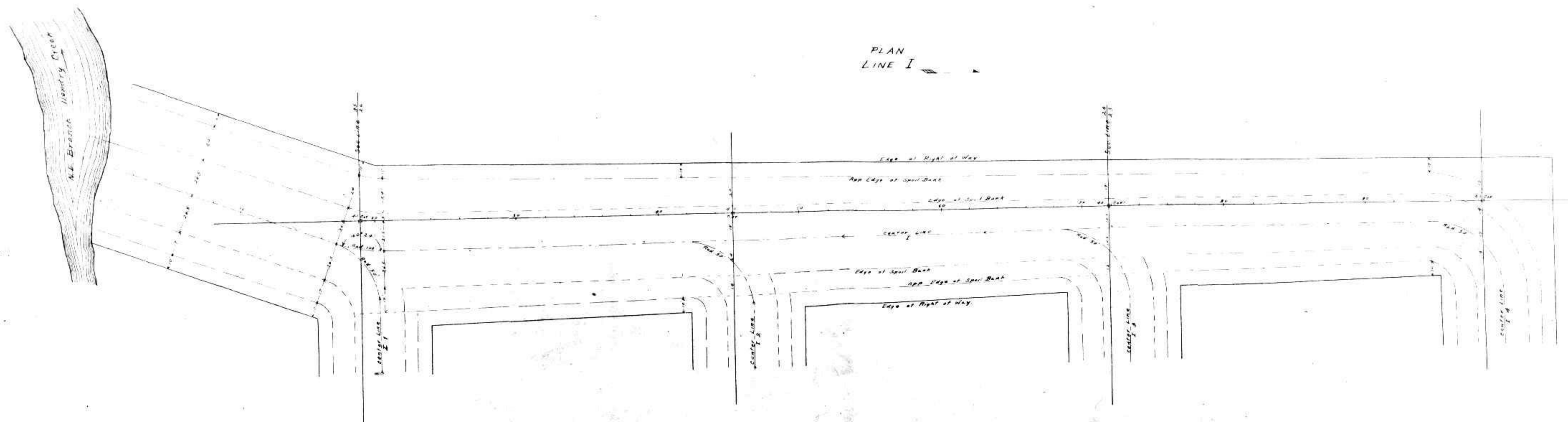
HYDRAULIC PROPERTIES

S	.000340
FD	3
BW	13
A	45
WP	20.2
H.R.	2.23
V	1.52
Cap	68.4
n	.0030 c=55
Side slope	2:3

HYDRAULIC PROPERTIES

S	.00045
FD	3
BW	8
A	30
WP	15.2
H.R.	1.97
V	1.61
Cap	48.7
n	.0030 c=54
Side slope	2:3

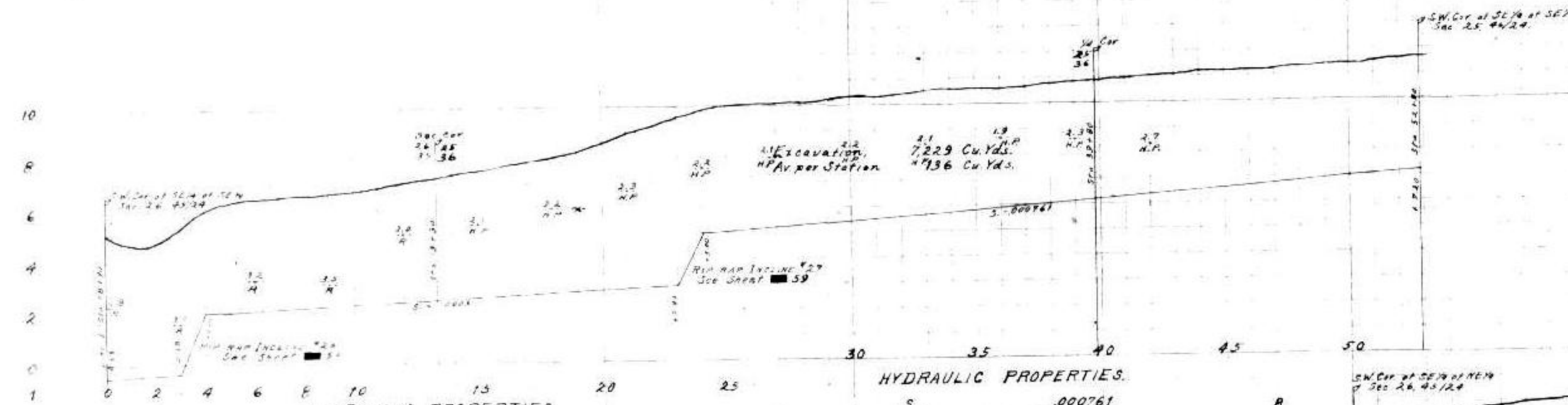
PLAN LINE I



HYDRAULIC PROPERTIES

S	.00105
FD	1.8
BW	4
A	9.36
WP	8.32
HR	1.12
V	1.58
Cap	14.8
n = .035 c = .46	
Side slope 2:3	

PROFILE
LINE I 1.



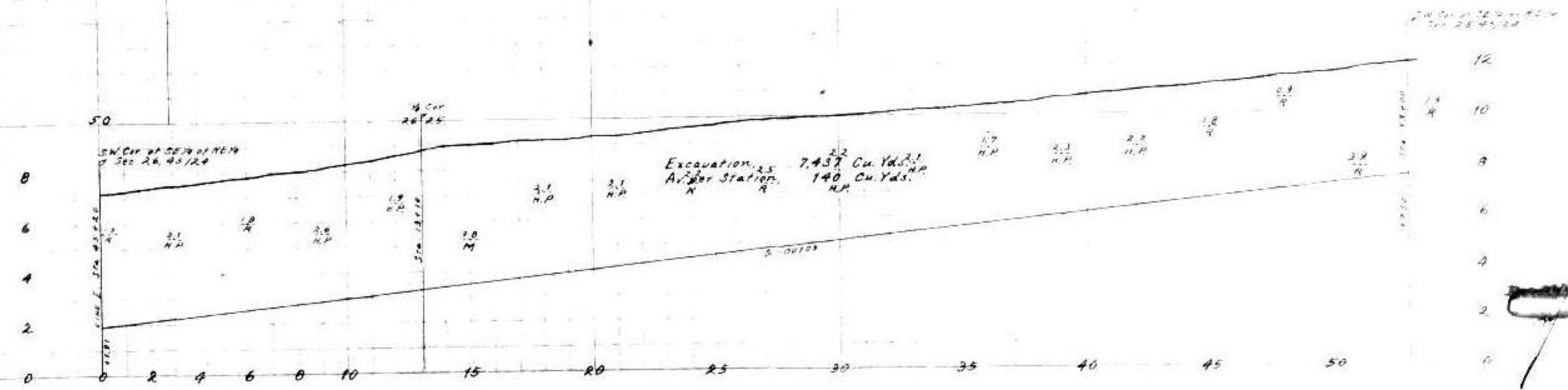
HYDRAULIC PROPERTIES

S	.0005
FD	3
BW	4
A	18
WP	1.12
HR	1.12
V	1.46
Cap	20.1
n = .035 c = .46	
Side slope 2:3	

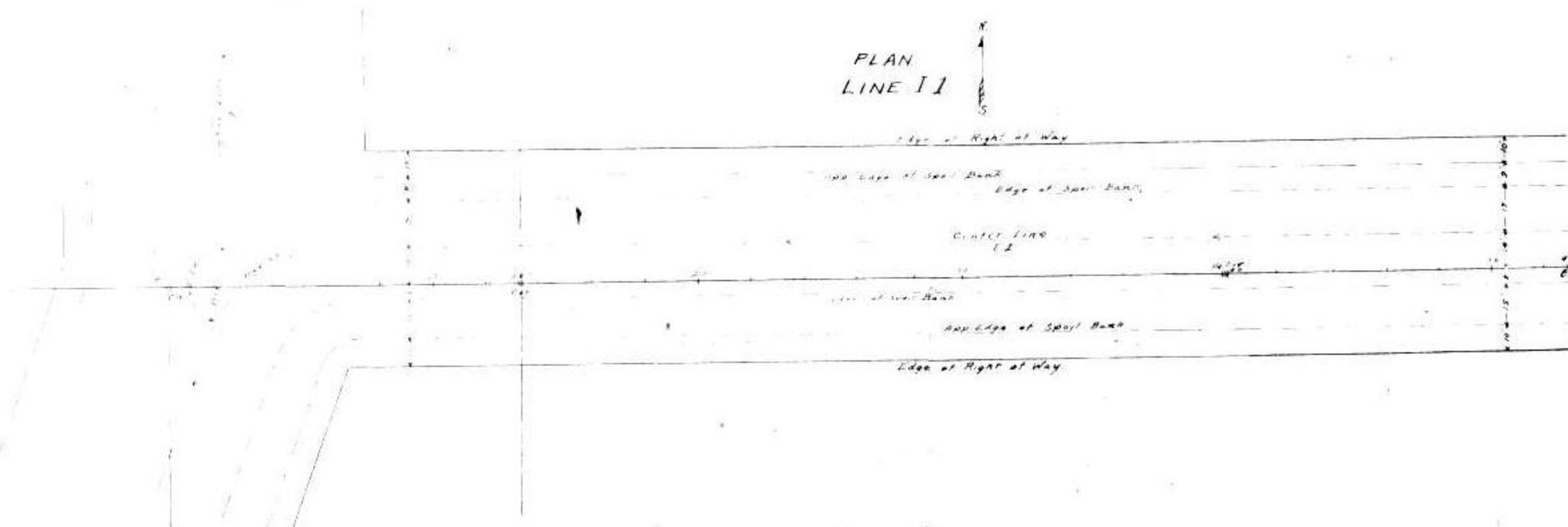
HYDRAULIC PROPERTIES

S	.000761
FD	1.8
BW	4
A	9.36
WP	8.32
HR	1.12
V	1.34
Cap	12.5
n = .035 c = .46	
Side slope 2:3	

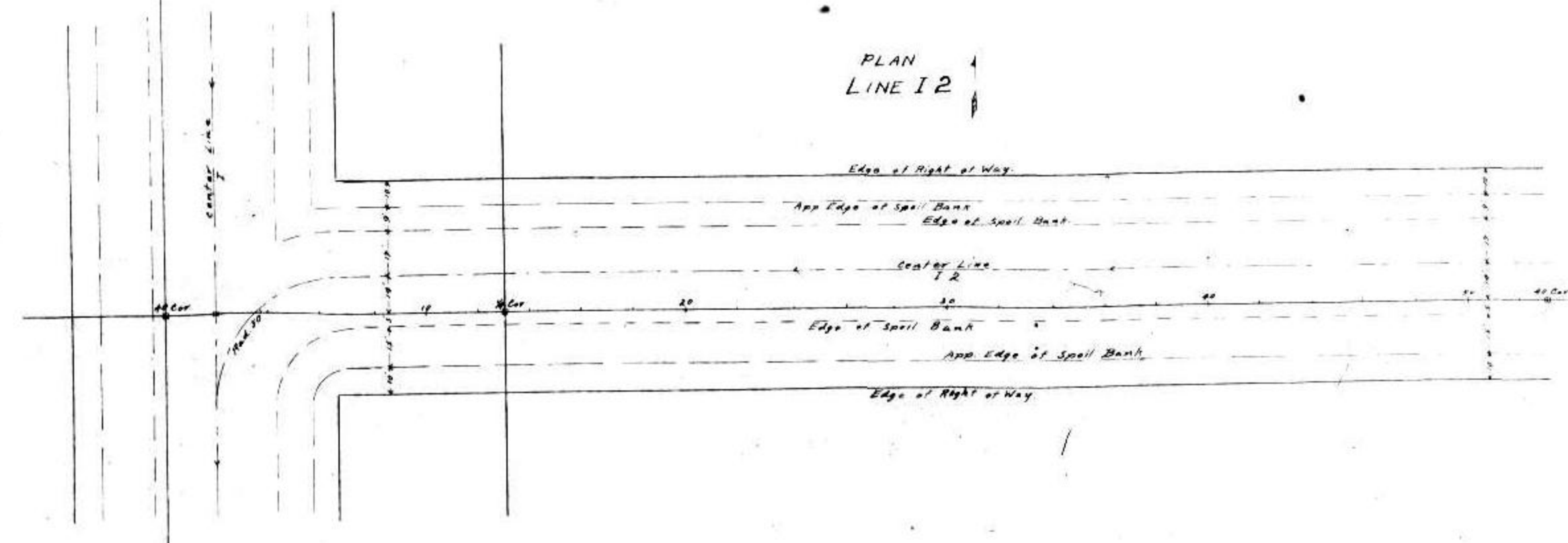
PROFILE
LINE I 2.



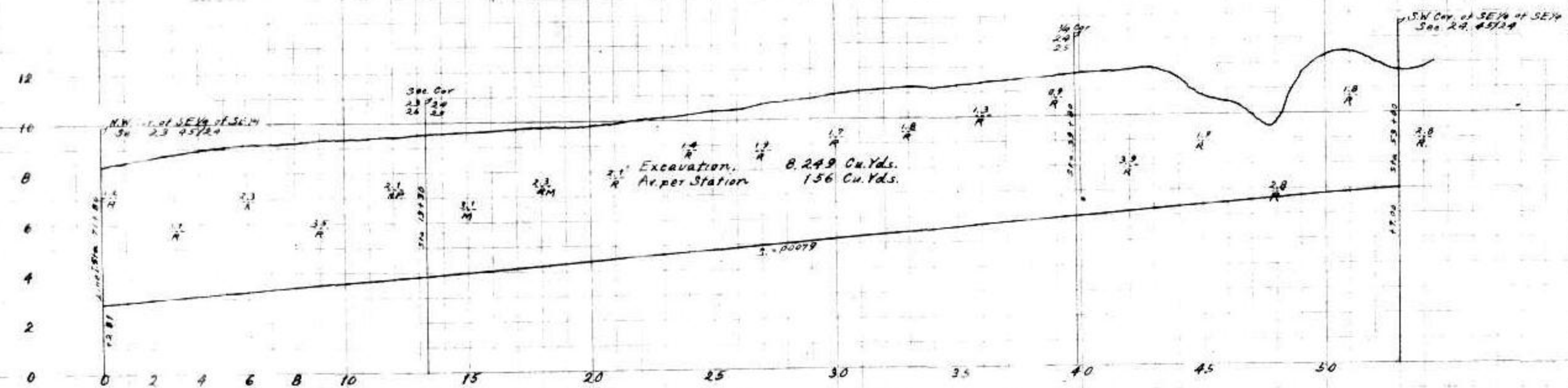
PLAN
LINE I 1



PLAN
LINE I 2



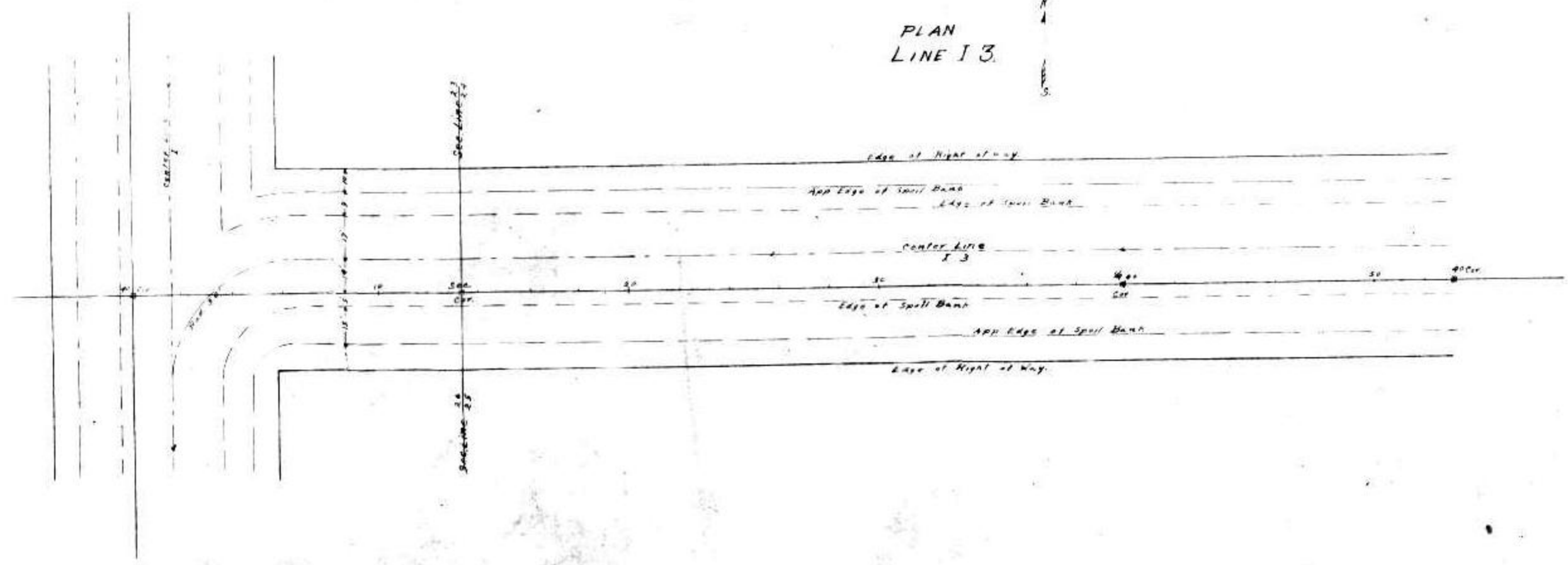
PROFILE
LINE 13.



HYDRAULIC PROPERTIES.

S	.00079
D	21
HW	4
A	11.34
W.P.	9.04
H.R.	1.25
V	1.45
Q	15.0
R = 0.030 C = 46	
Side slope 2:3	

PLAN
LINE 13.



New District Office

1st District Office

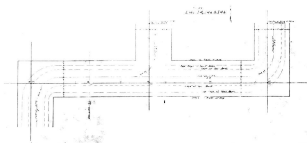
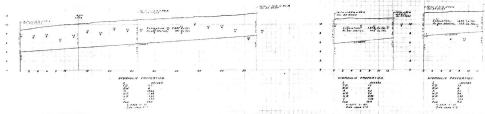
1st District Office

1st District Office

1st District Office

1st District Office

1st District Office



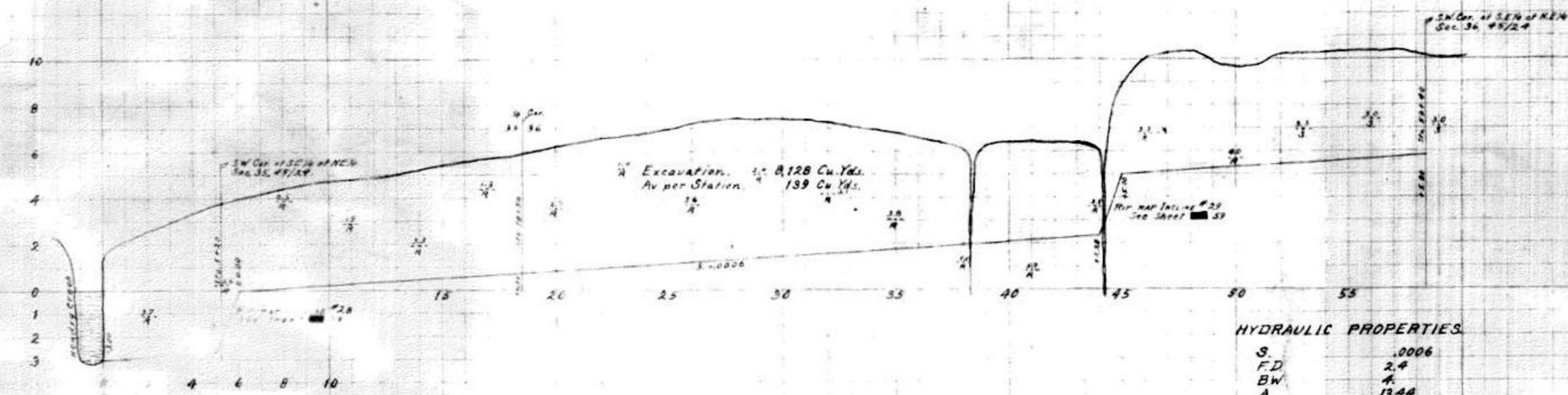
IONA DRAINAGE DISTRICT
Lee County, Florida.

A.L. White,
Chief Engineer

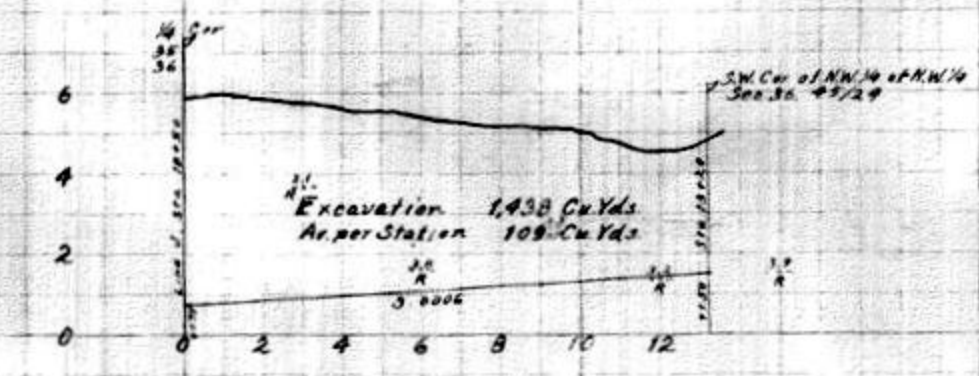
Hor. Scale 1" = 400'
Vert. Scale 1" = 4'

Folio B
Sheet 38

PROFILE
LINE J.



PROFILE
LINE J1

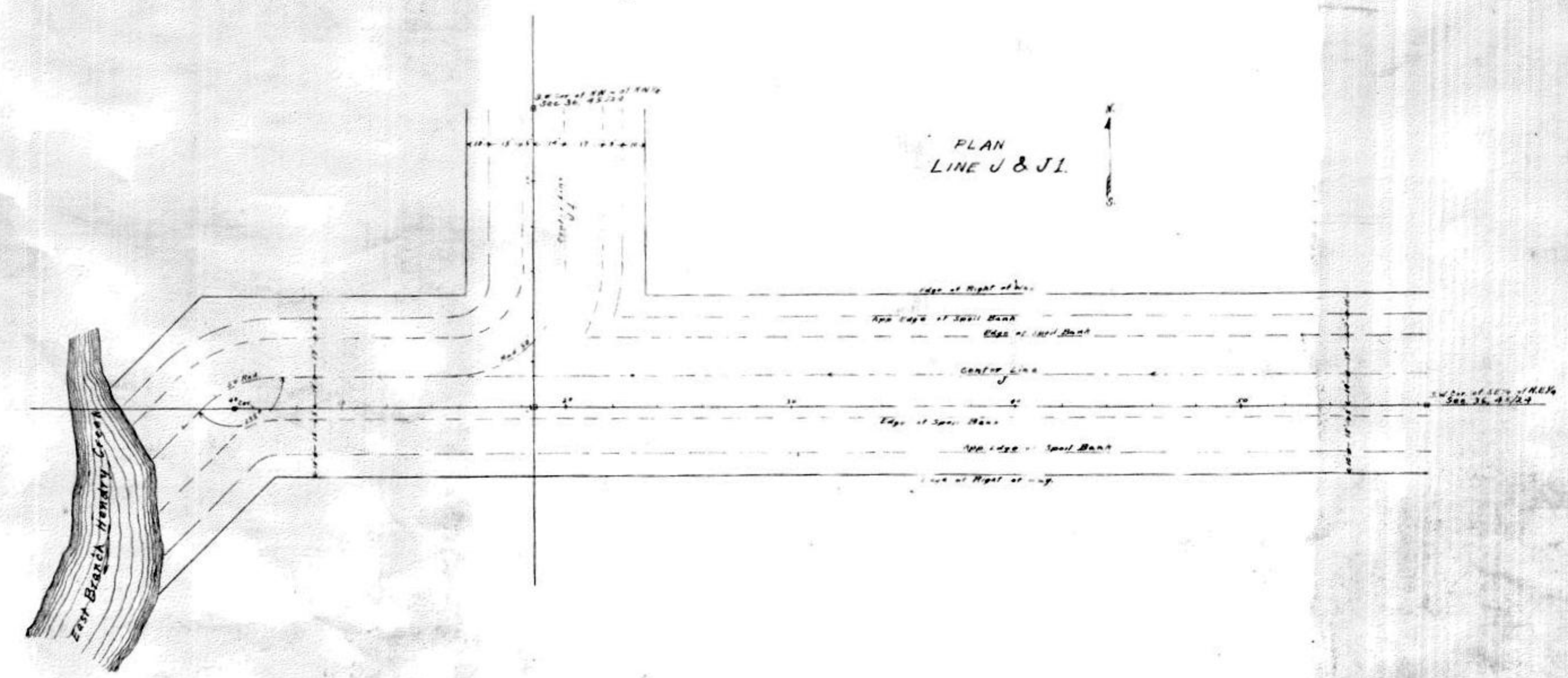


HYDRAULIC PROPERTIES

S	.0006
F.D	2.4
B.W	13.44
A	3.76
W.P	1.38
V	1.38
Cap	18.5

n = .036 c = .49
Side-slope 2:1

PLAN
LINE J & J1



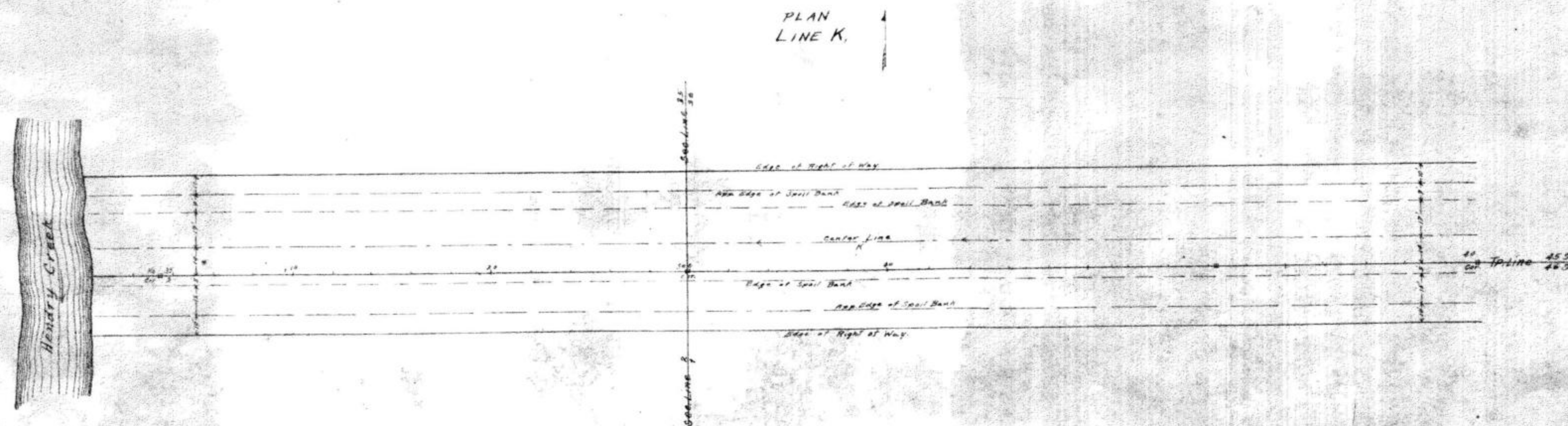
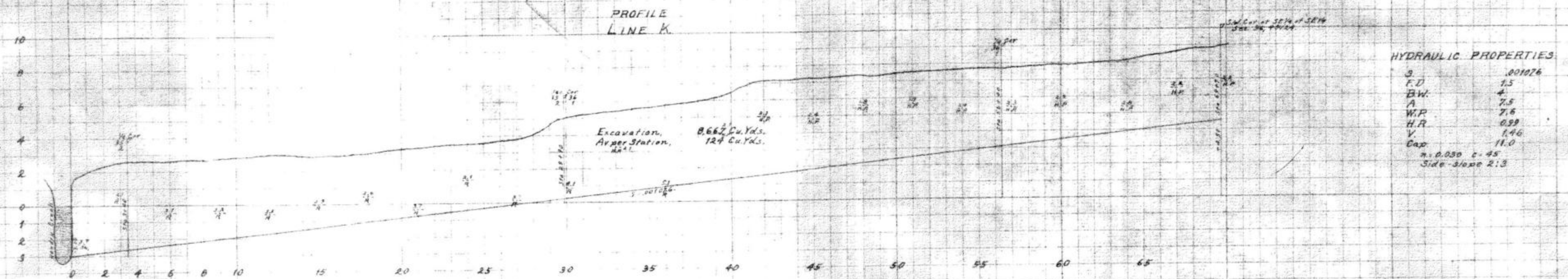
TONA DRAINAGE DISTRICT

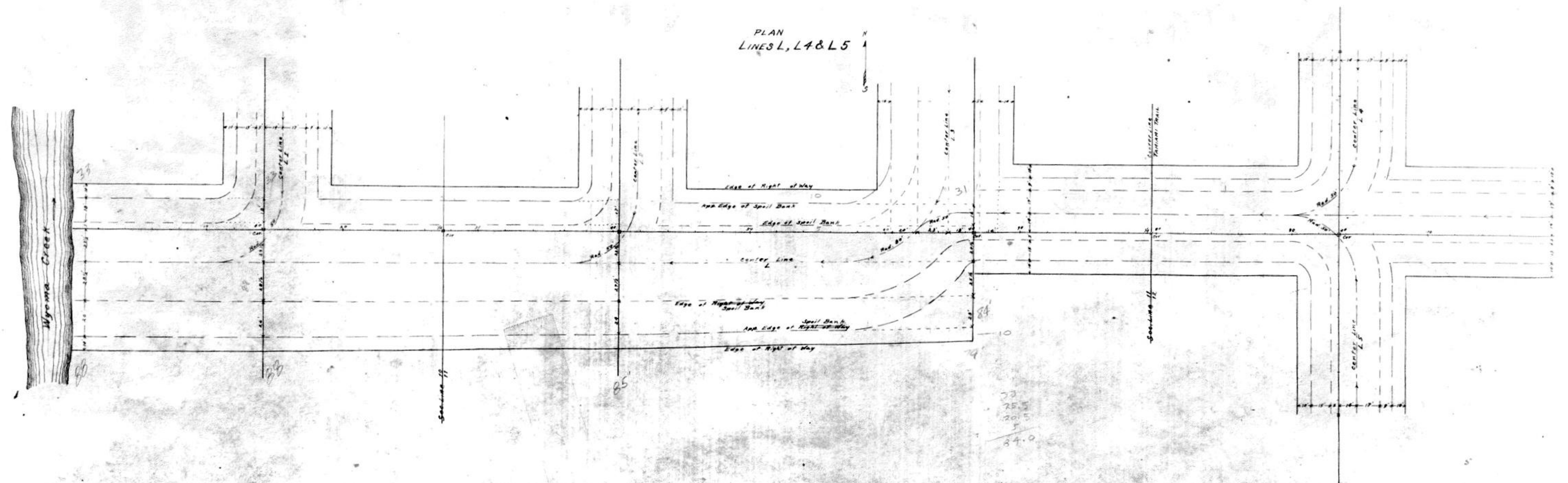
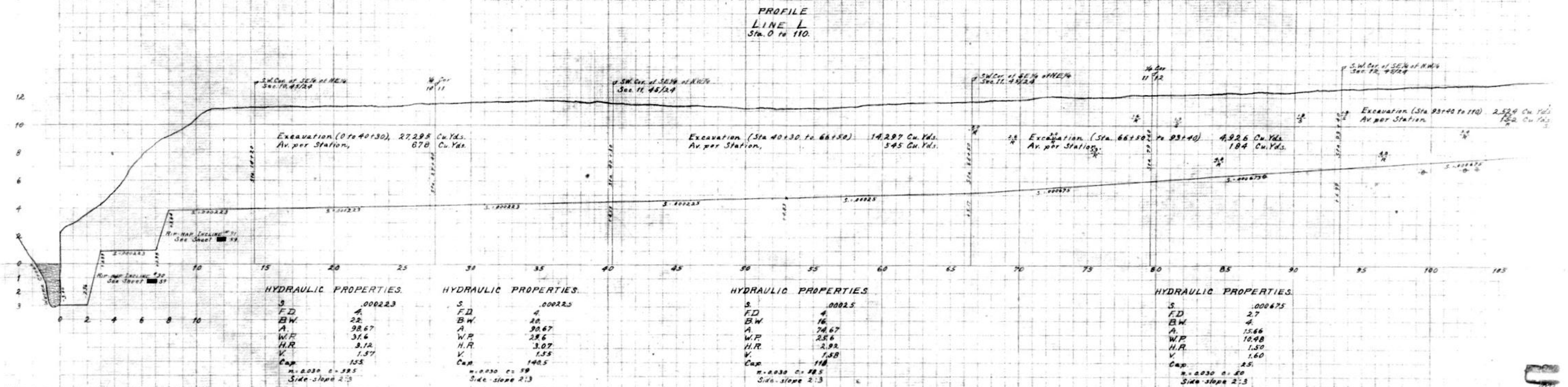
Lee County, Florida

A.L. White,
Chief Engineer

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

Folio B
Sheet 39





IONA DRAINAGE DISTRICT

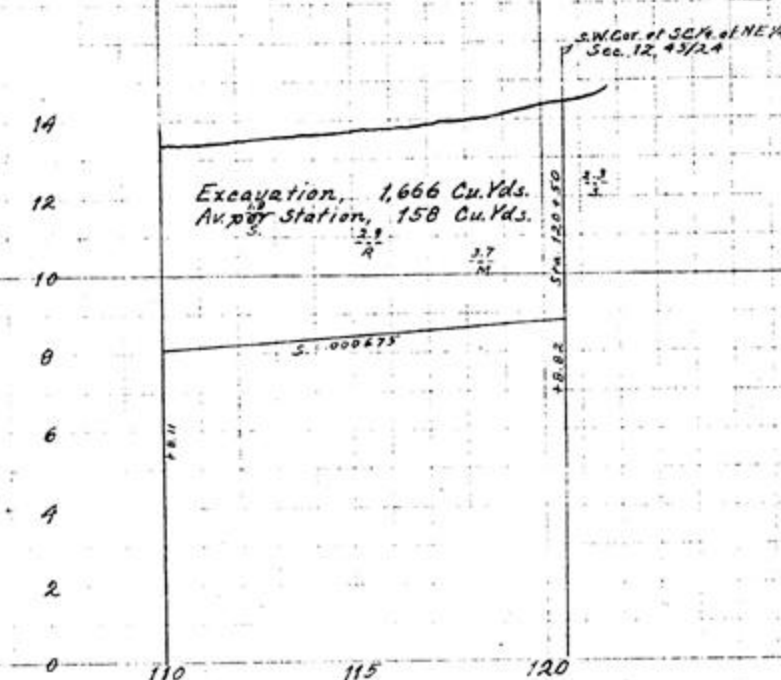
Lea County, Florida.

A.L. White,
Chief Engineer

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

Folio B
Sheet 41

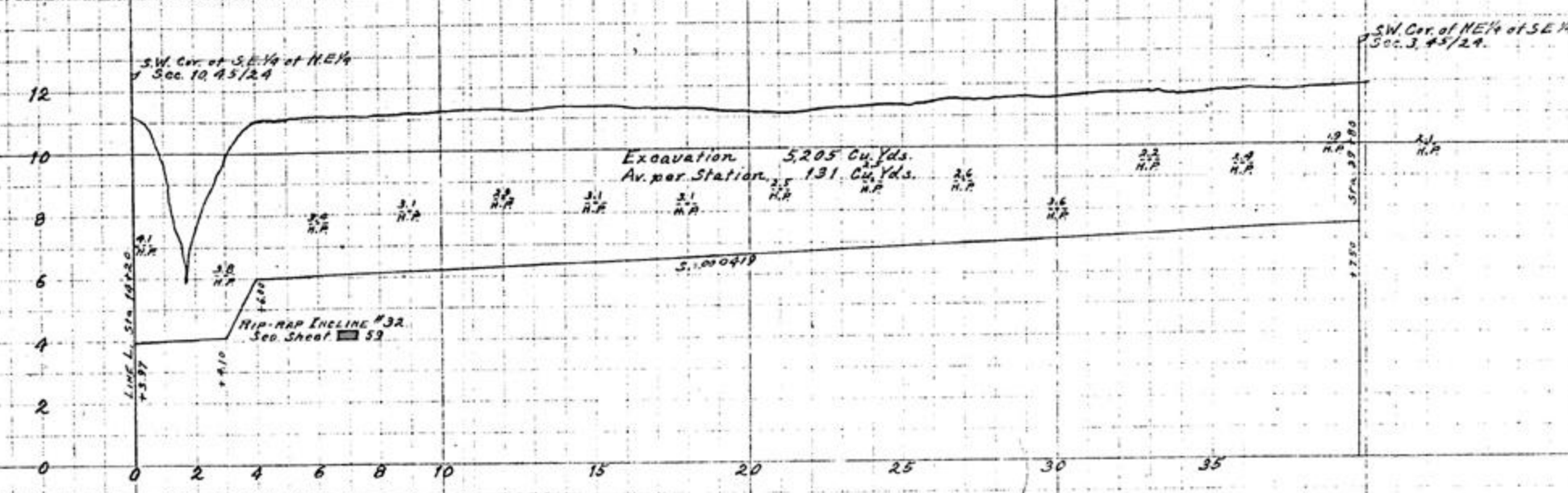
PROFILE
LINE L
Sta. 110 to 120+50.



HYDRAULIC PROPERTIES.

S.	.000475
F.D.	2.7
B.W.	4
A.	15.66
W.P.	10.48
H.P.	1.50
V.	1.60
Cap.	25
n	.030 c. 50
Side-slope	2:3

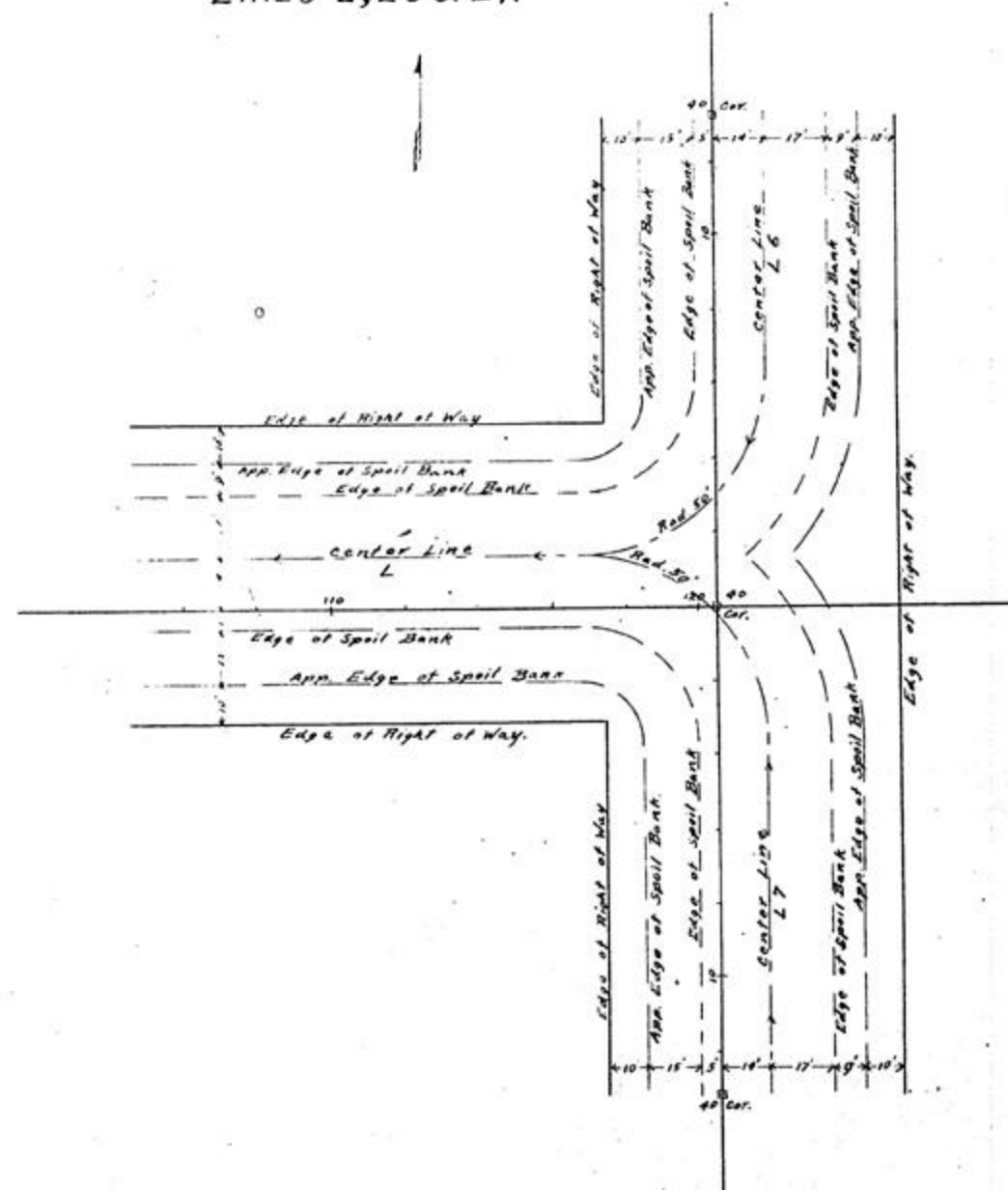
PROFILE
LINE L 1.



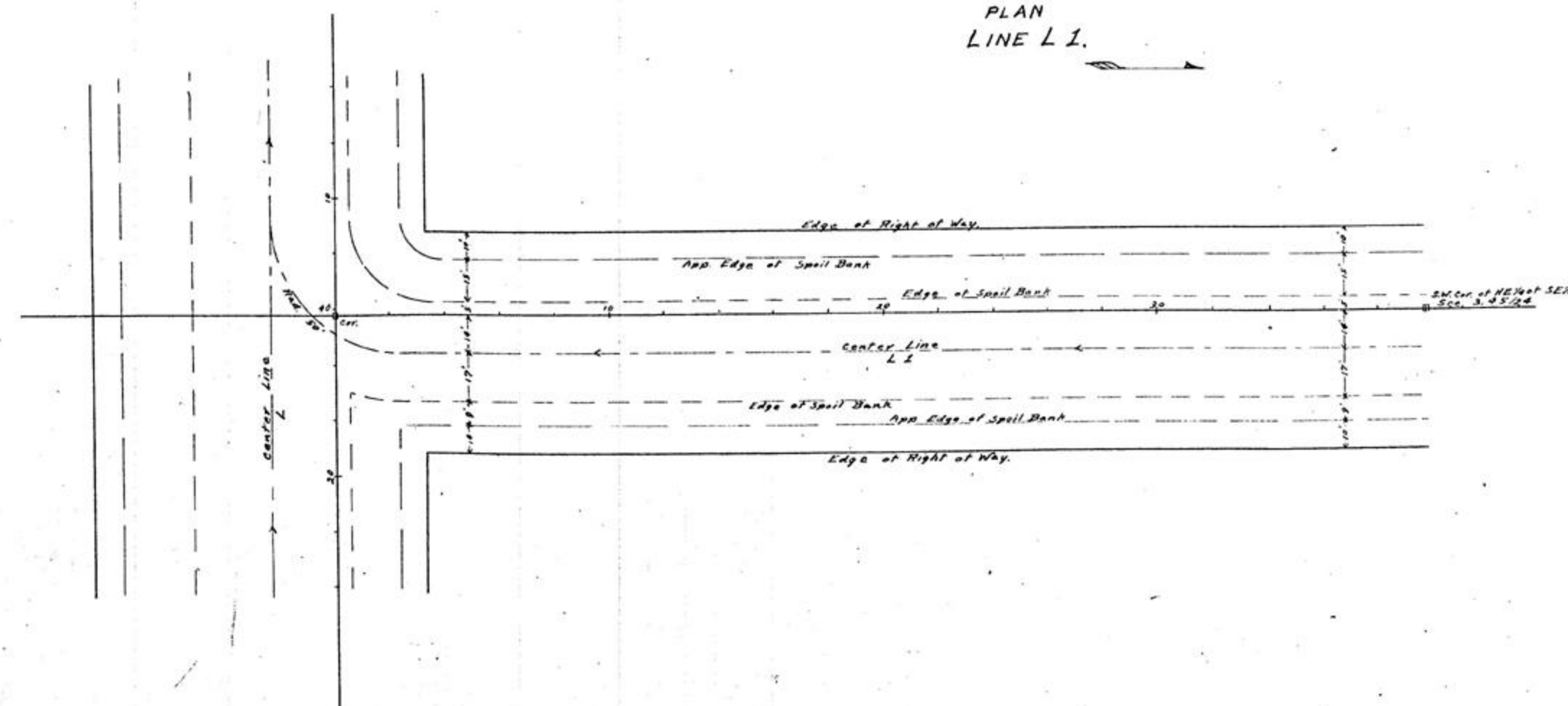
HYDRAULIC PROPERTIES.

S.	.000419
F.D.	3
B.W.	4
A.	10
W.P.	11.2
H.P.	1.61
V.	1.33
Cap.	23.9
n	.030 c. 50
Side-slope	2:3

PLAN
LINES L, L6 & L7.



PLAN
LINE L 1.



IONA DRAINAGE DISTRICT

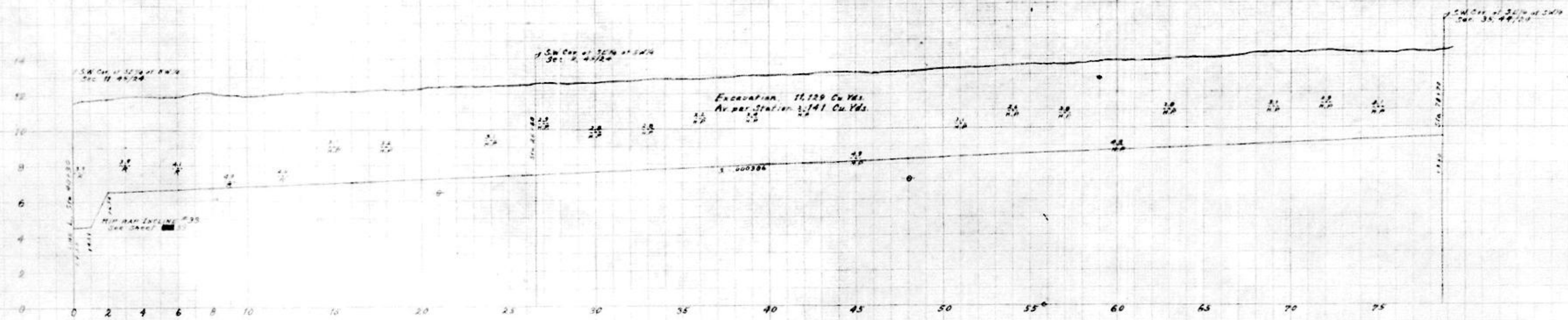
Lee County, Florida

A. L. White,
Chief Engineer

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

Folio B
Sheet 42

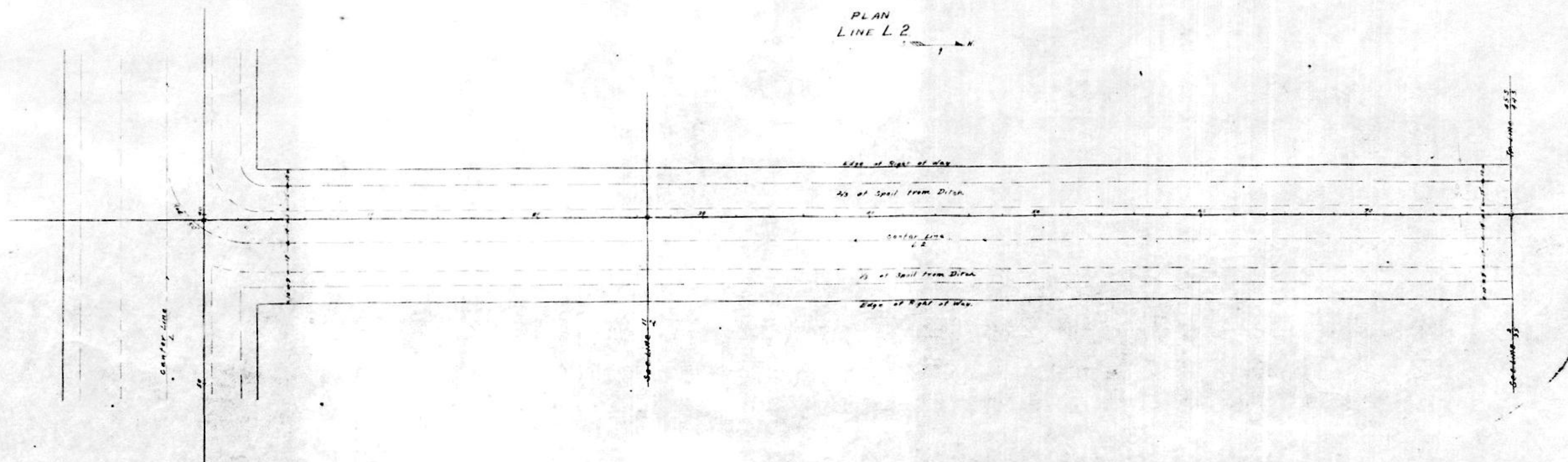
PROFILE LINE L 2.



HYDRAULIC PROPERTIES

S	0.000386
P.D.	5
B.W.	4
A	18
W.P.	11.2
V.R.	1.61
V	1.27
Cup	22.9
R. 0.038 0.57	
Side slope 2:1	

PLAN LINE L 2



IONA DRAINAGE DISTRICT

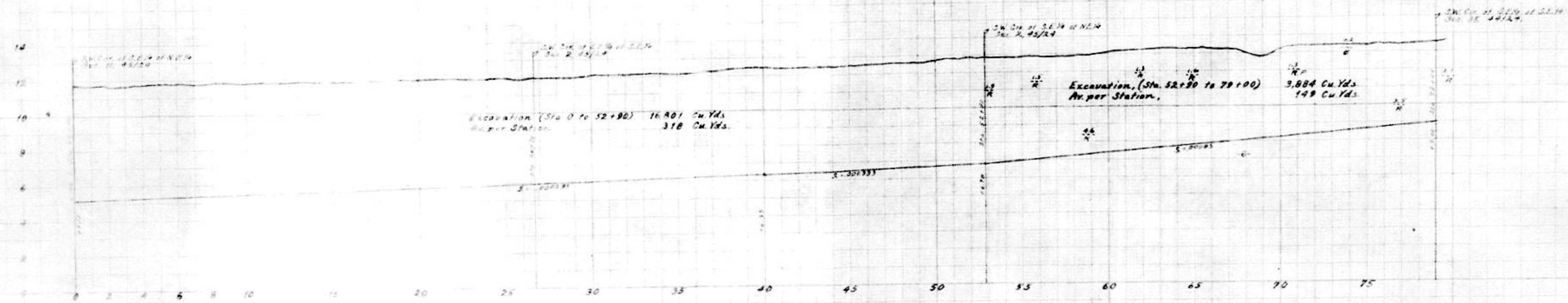
Lee County, Florida

A. C. White,
Chief Engineer

Horizontal Scale 1"=400'
Vertical Scale 1"=4'

Folio B
Sheet 43

PROFILE LINE L 3



HYDRAULIC PROPERTIES

S	0.00033
F.D.	4
B.W.	11
A	14.67
W.P.	2.66
H.R.	2.66
V	1.63
Cov.	0.75
n	0.15
Side Slope	2:1

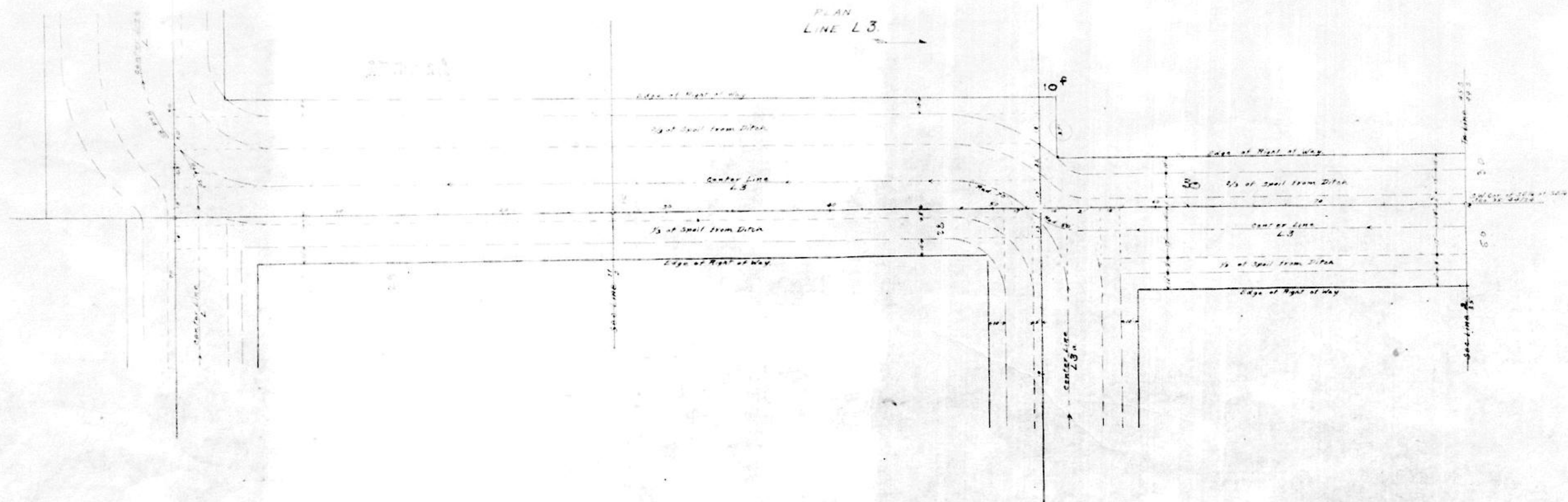
HYDRAULIC PROPERTIES

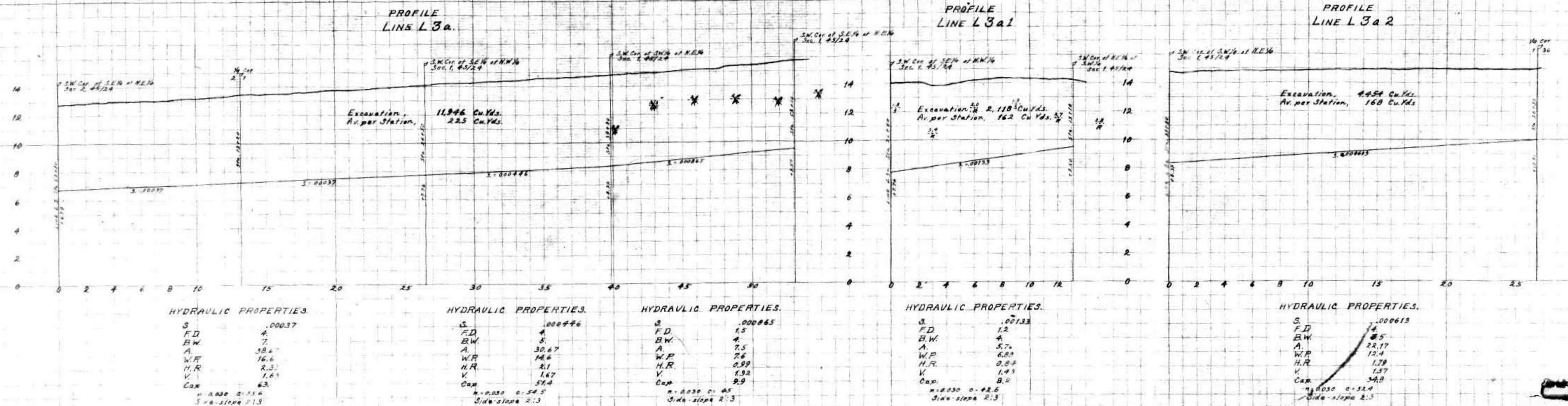
S	0.00033
F.D.	4
B.W.	8.5
A	44.67
W.P.	18.1
H.R.	2.47
V	1.61
Cov.	0.72
n	0.15
Side Slope	2:1

HYDRAULIC PROPERTIES

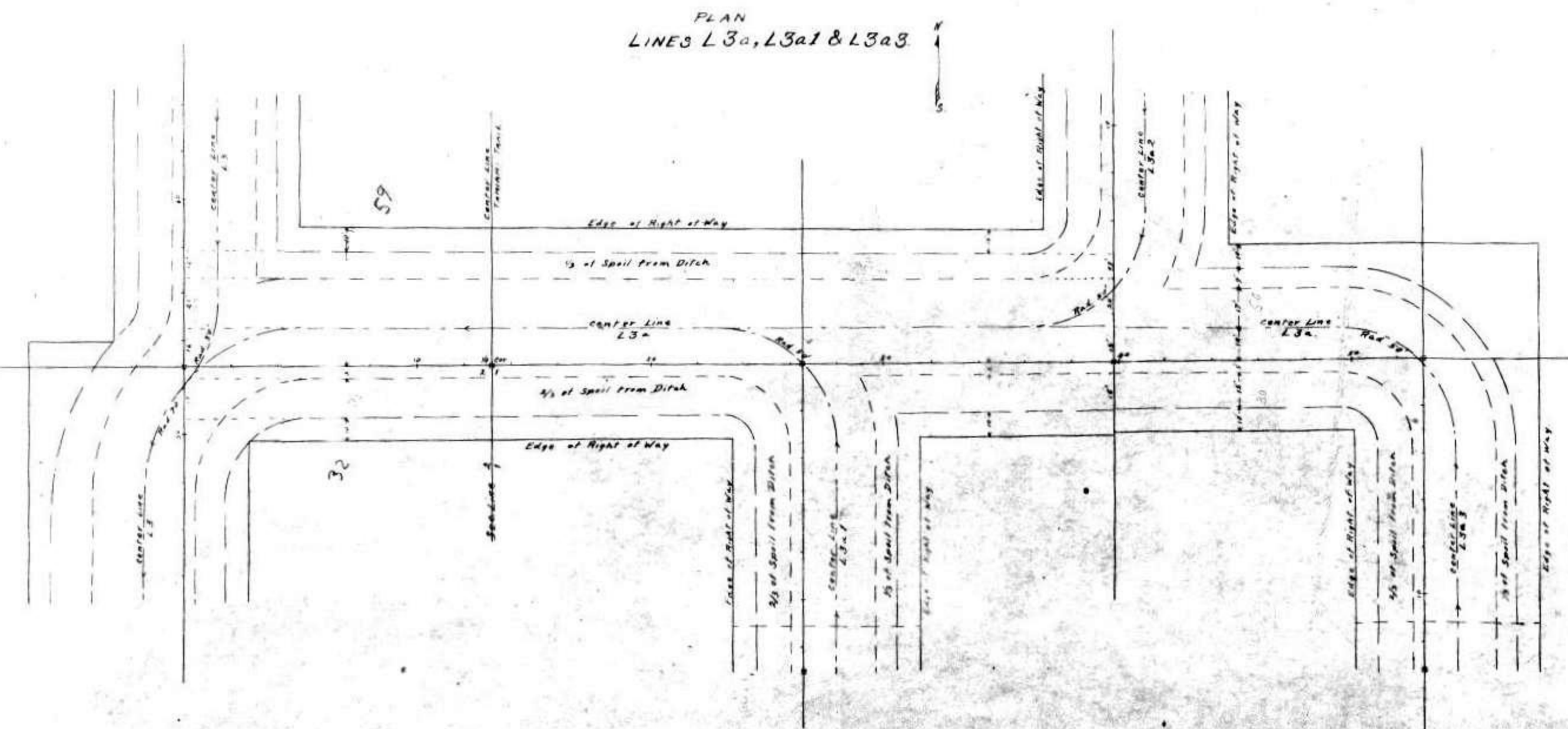
S	0.00033
F.D.	1.5
B.W.	4
A	7.50
W.P.	7.64
H.R.	0.99
V	1.30
Cov.	0.75
n	0.15
Side Slope	2:1

PLAN LINE L 3

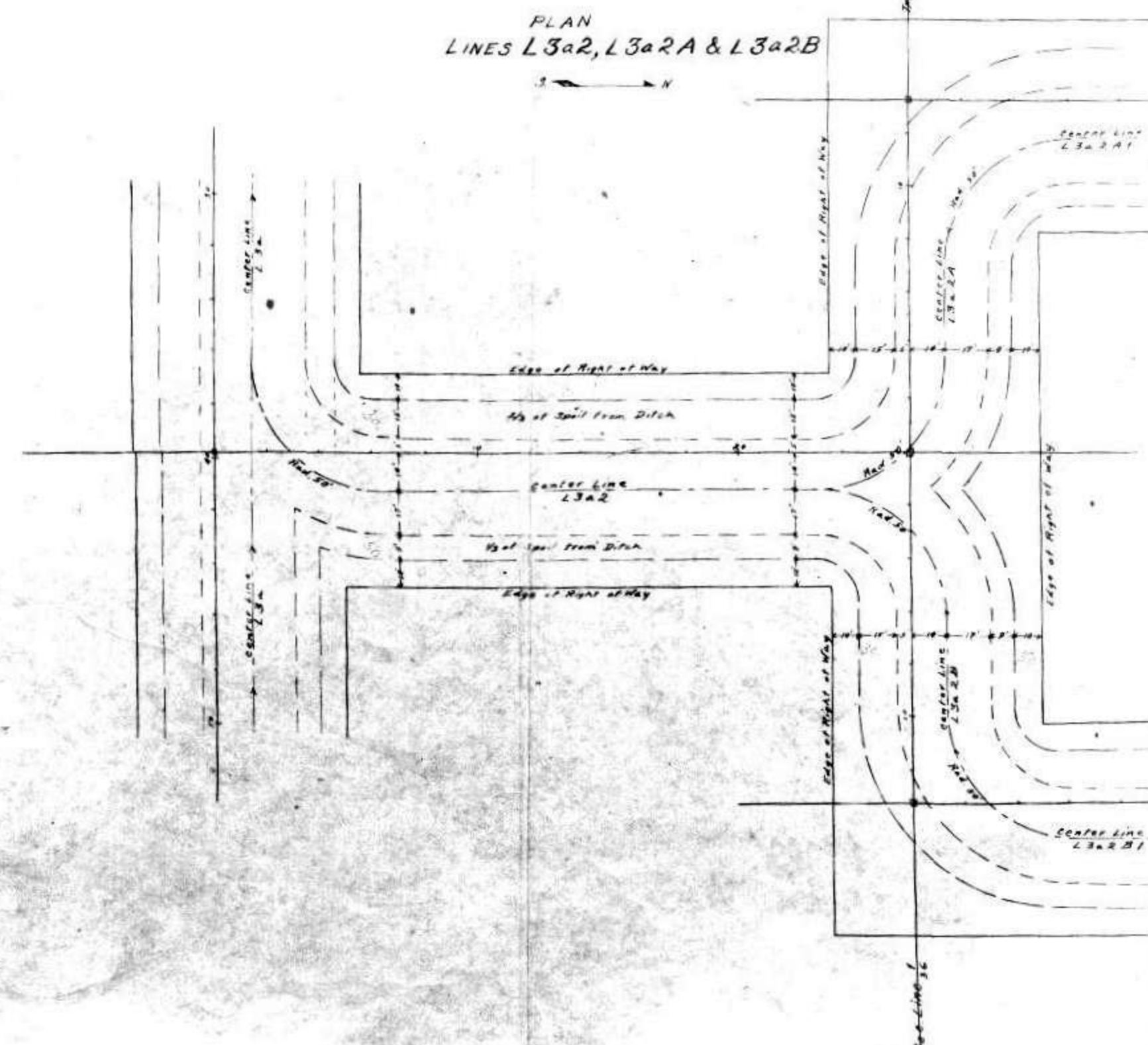




PLAN
LINES L3a, L3a1 & L3a2



PLAN
LINES L3a2, L3a2A & L3a2B



IONA DRAINAGE DISTRICT

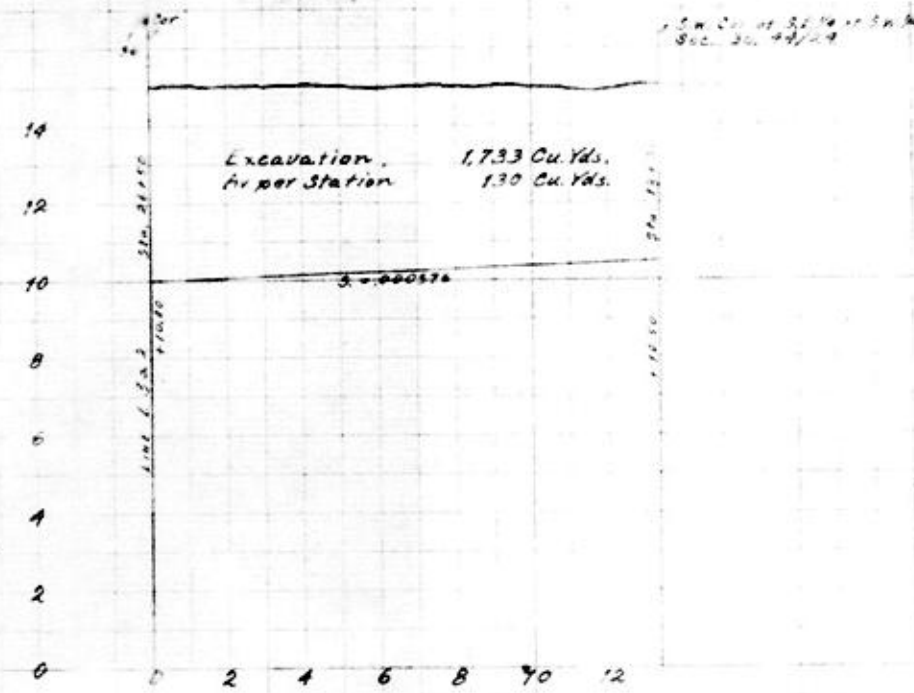
Lee County, Florida

A.L. White,
Chief Engineer

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

Folio B
Sheet 45

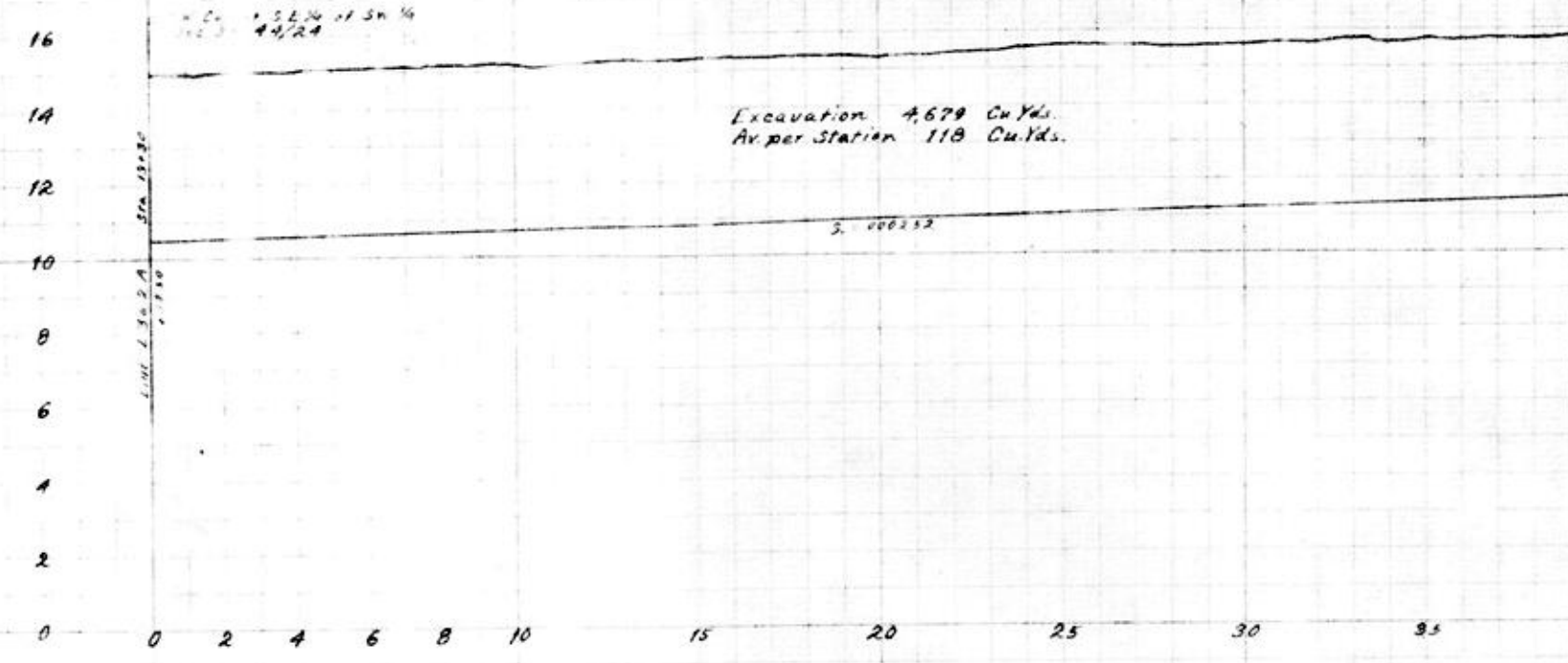
PROFILE
LINE L3a2A



HYDRAULIC PROPERTIES

S .000376
F.D. 3
B.W. 4
A 18
W.P. 11.2
H.R. 1.61
V 1.01
Cap. 22.5
n .030 c .51
Side slope 2:3
For Plan, see Sheet 44

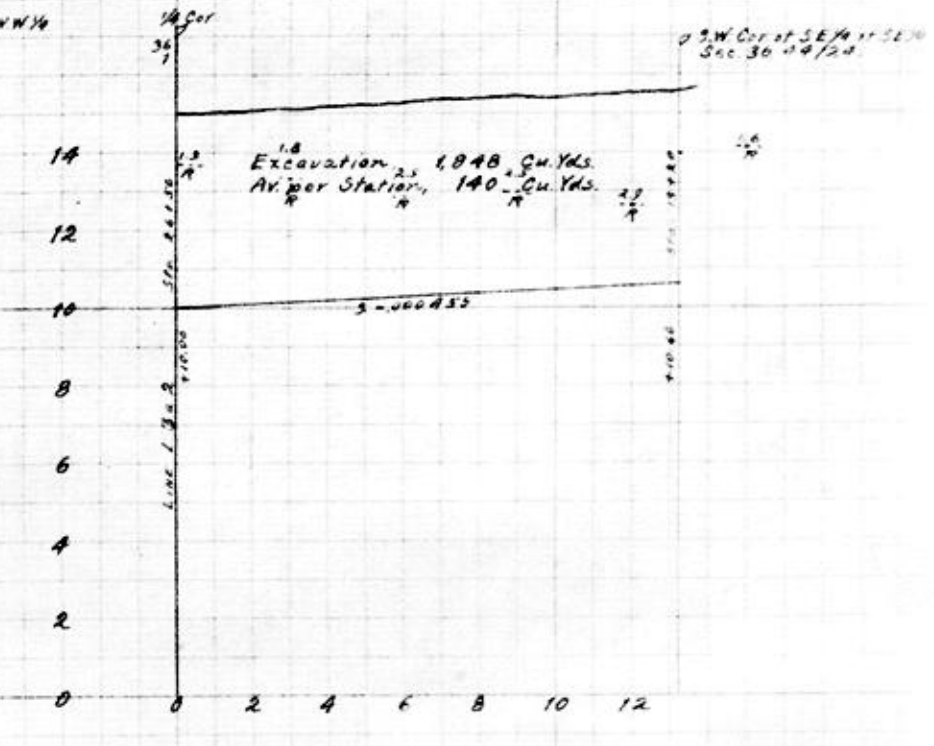
PROFILE
LINE L3a2A1



HYDRAULIC PROPERTIES

S .000352
F.D. 3
B.W. 4
A 18
W.P. 11.2
H.R. 1.61
V 1.01
Cap. 10.2
n .030 c .51
Side slope 2:3

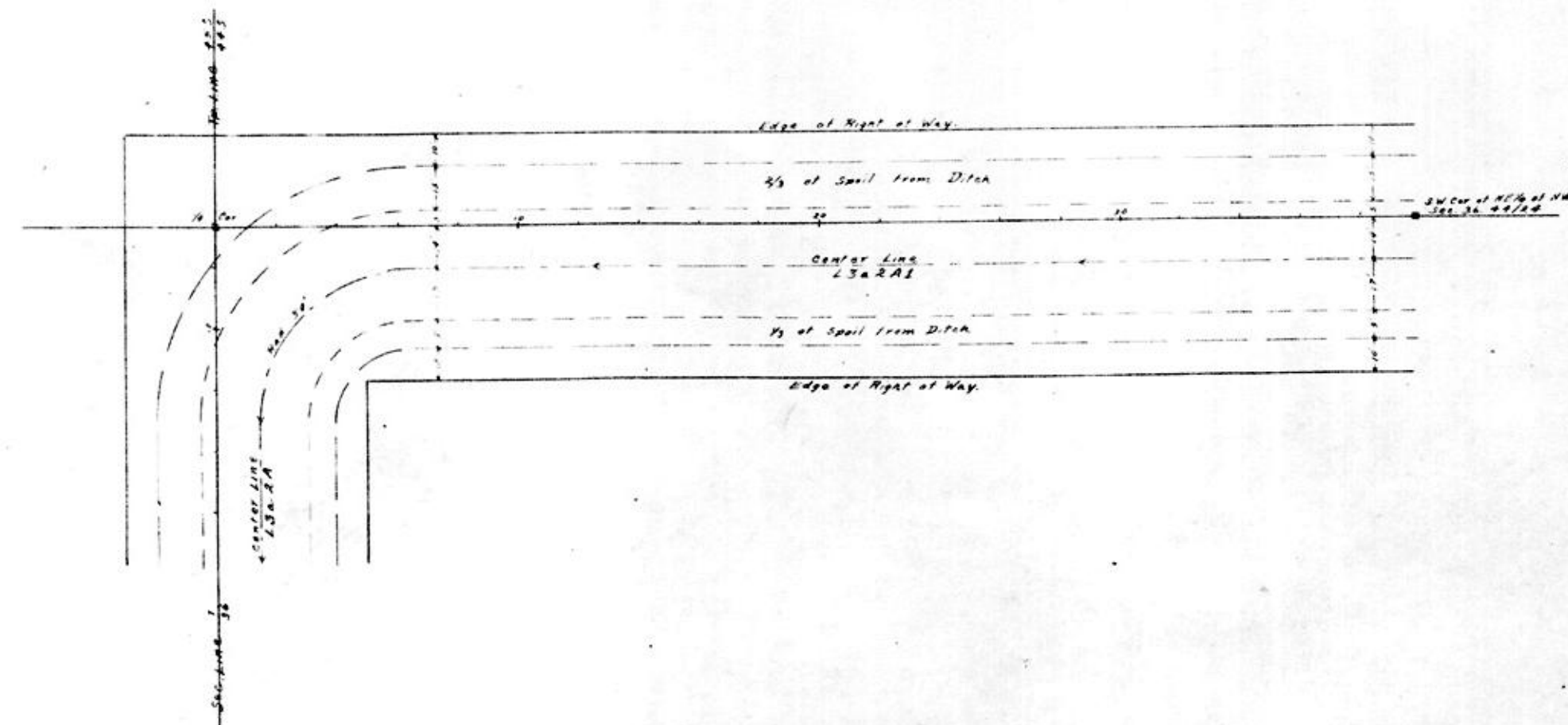
PROFILE
LINE L3a2B



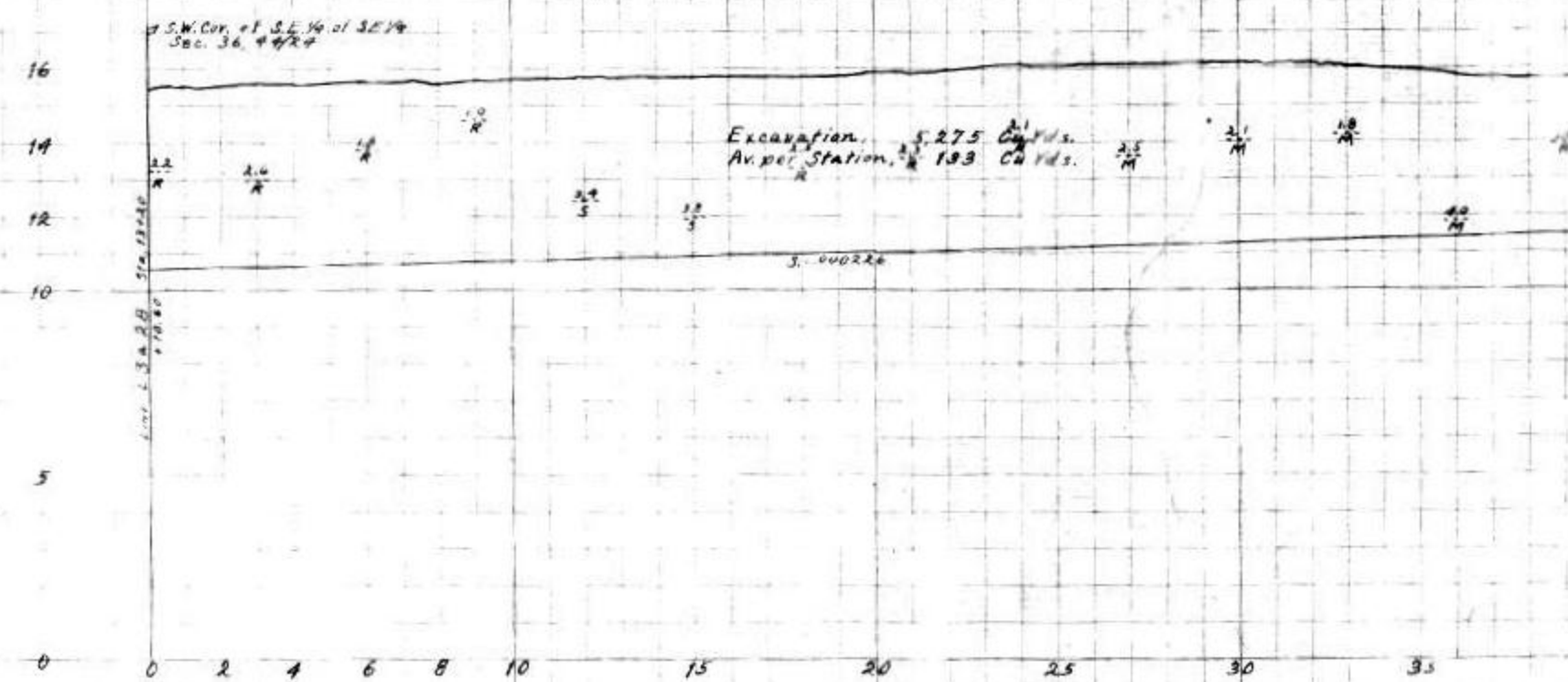
HYDRAULIC PROPERTIES

S .000355
F.D. 3
B.W. 4
A 18
W.P. 11.2
H.R. 1.61
V 1.01
Cap. 26.8
n .030 c .51
Side slope 2:3
For Plan, see Sheet 44

PLAN
LINE L3a2A1



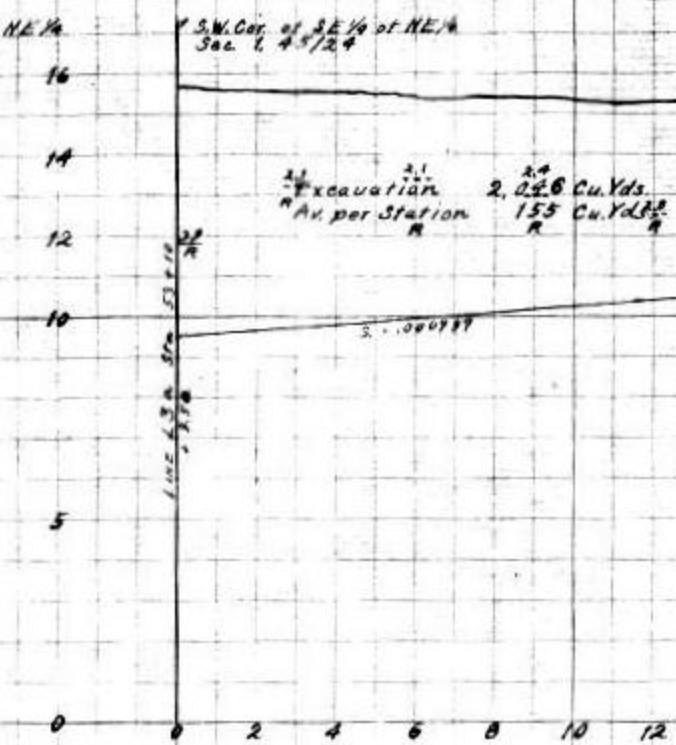
PROFILE
LINE L3a2B1



HYDRAULIC PROPERTIES.

S.	.000226
F.D.	3
B.W.	4
A.	18
W.P.	112
H.R.	1.61
V.	0.953
Cap.	17.2
n	0.030 c. 40
Side slope	2:3

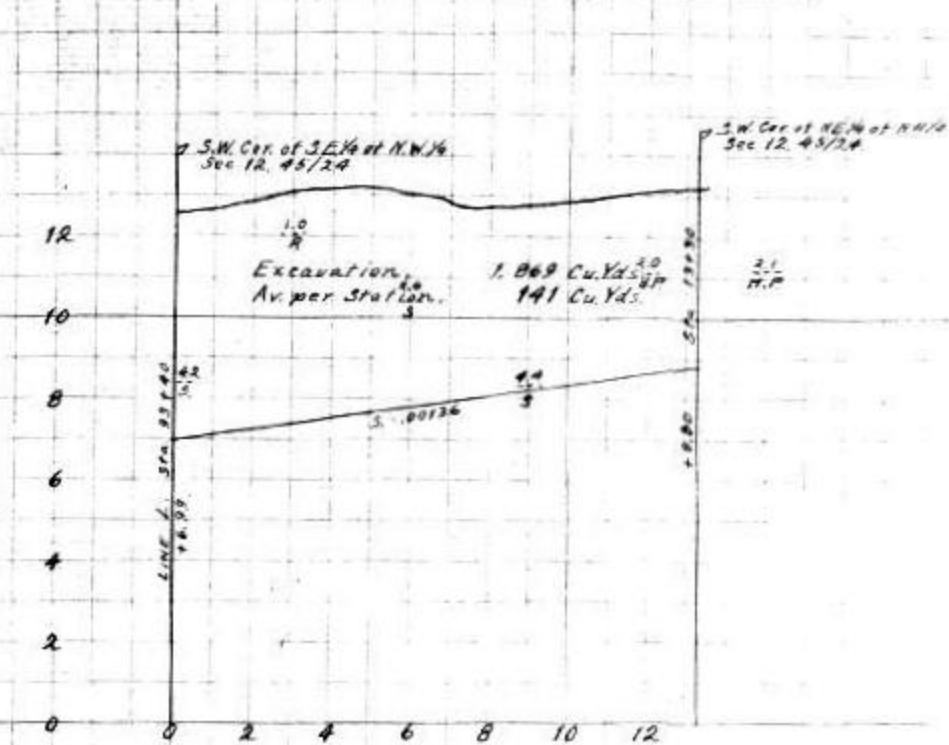
PROFILE
LINE L3a2B3



HYDRAULIC PROPERTIES.

S.	.000757
F.D.	15
B.W.	4
A.	75
W.P.	76
H.R.	0.99
V.	1.23
Cap.	9.2
n	0.030 c. 45
Side slope	2:3
For Plan, see Sheet 44	

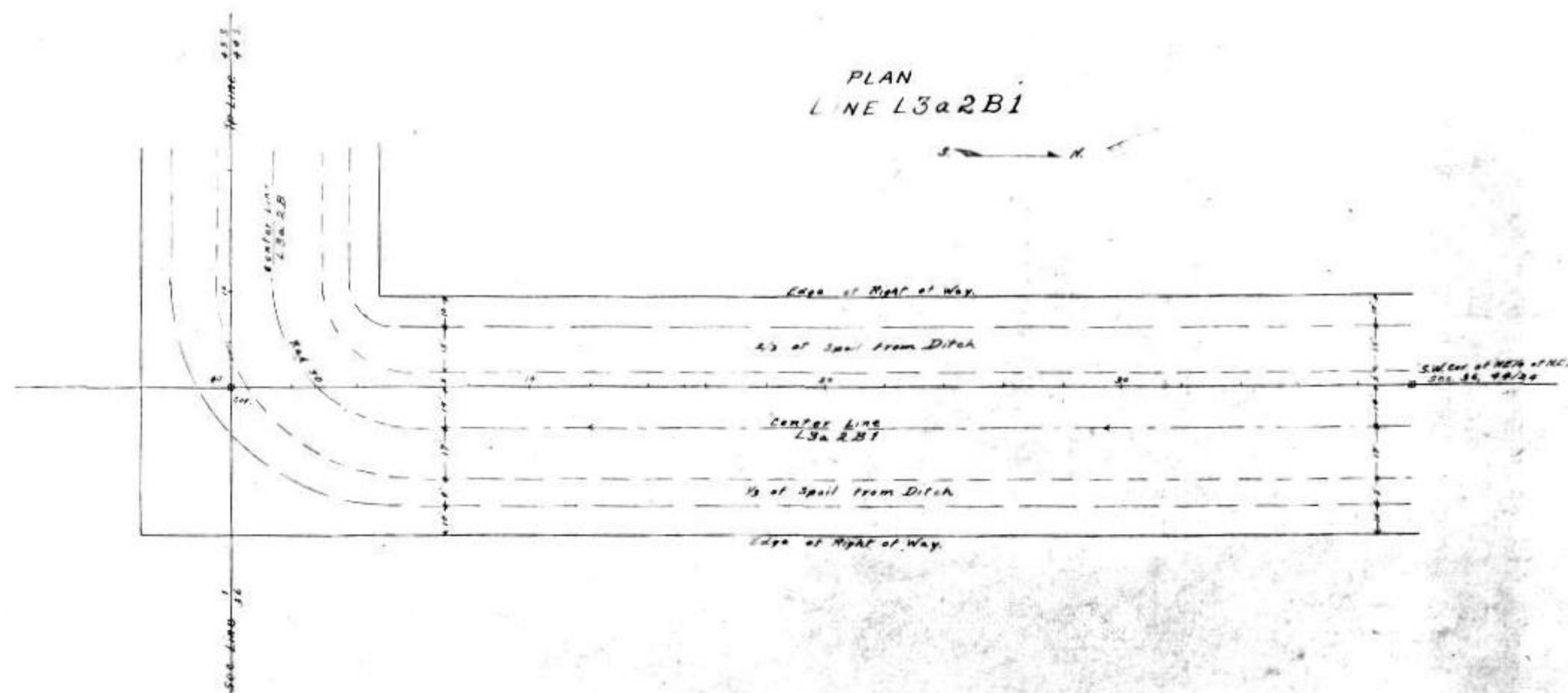
PROFILE
LINE L4



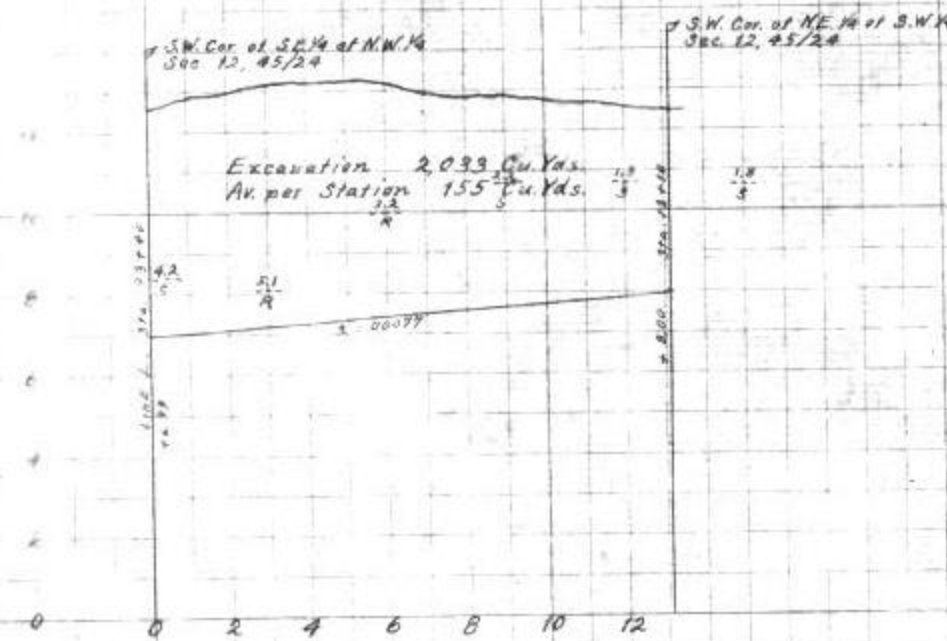
HYDRAULIC PROPERTIES.

S.	.00134
F.D.	1
B.W.	4
A.	4.7
W.P.	6.4
H.R.	0.73
V.	1.29
Cap.	6.03
n	0.030 c. 41
Side slope	2:3
For Plan, see Sheet 44	

PLAN
LINE L3a2B1



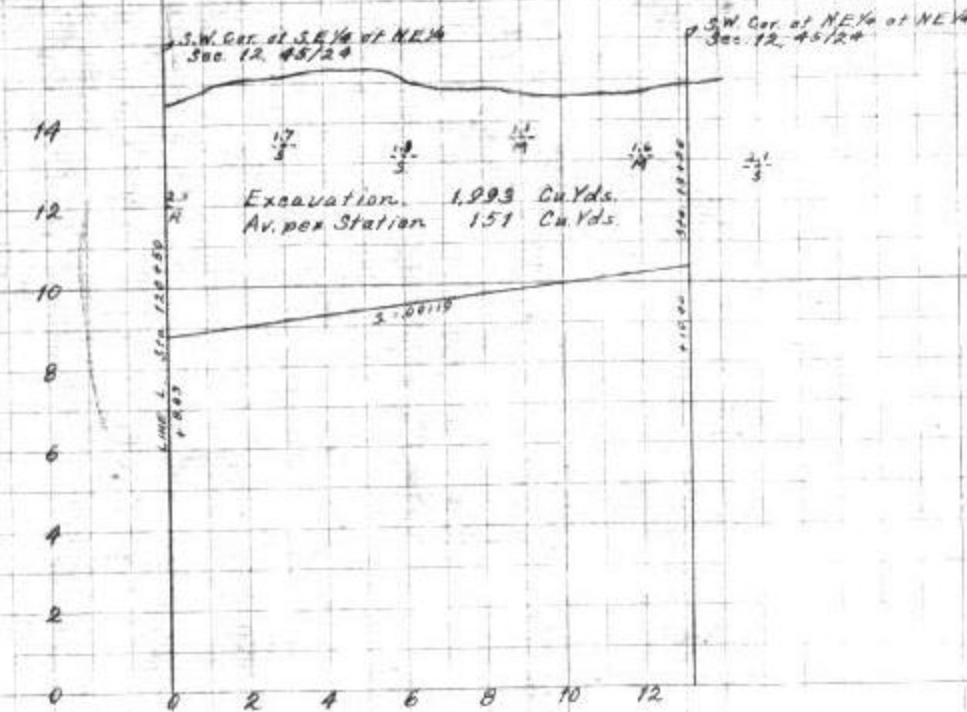
PROFILE
LINE L 5.



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	.030 c-42
Side slope	2:1
For Plan	see Sheet 40

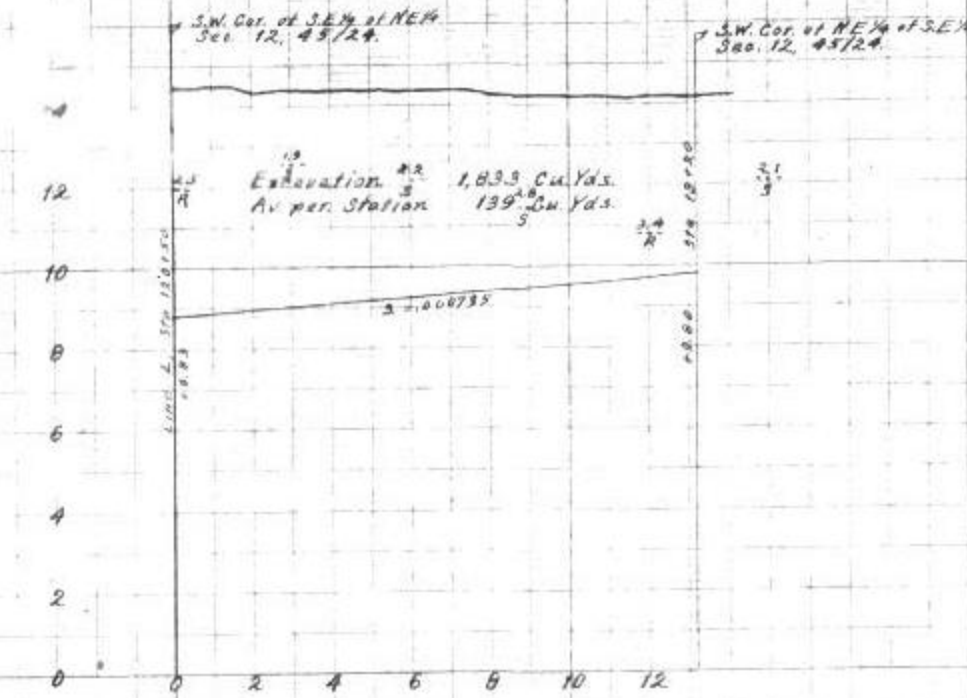
PROFILE
LINE L 6.



HYDRAULIC PROPERTIES.

S	.00119
F.D.	1
B.W.	4
A	4.67
W.P.	6.4
H.R.	0.73
V	1.29
Cap.	6
n	.030 c-41
Side slope	2:1
For Plan	see Sheet 41

PROFILE
LINE L 7.



HYDRAULIC PROPERTIES.

S	.000735
F.D.	1.5
B.W.	4
A	7.5
W.P.	7.6
H.R.	0.99
V	1.21
Cap.	8.50
n	.030 c-45
Side slope	2:1
For Plan	see Sheet 41

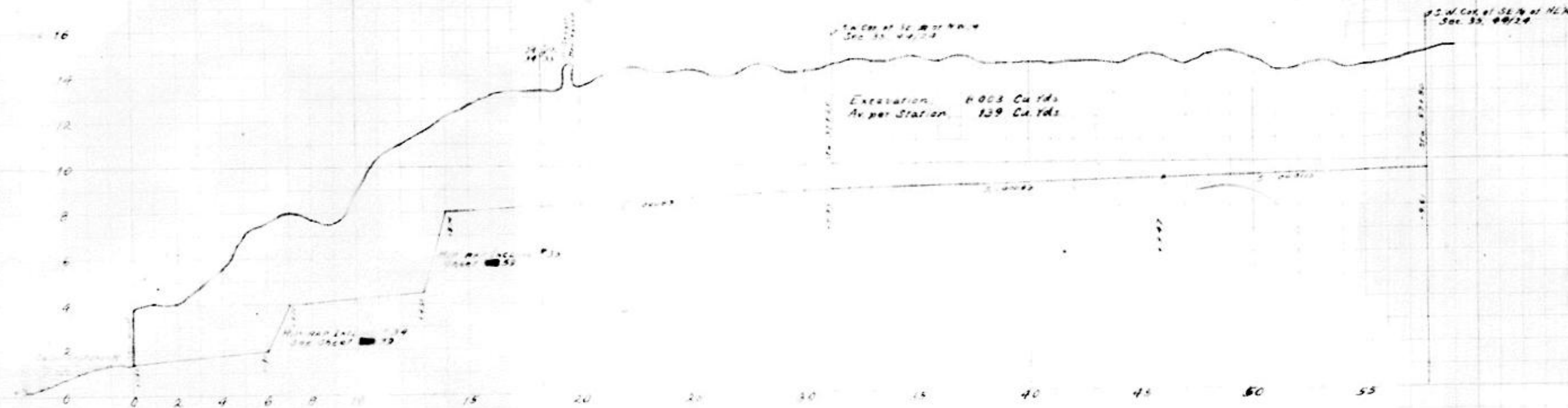
IONA DRAINAGE DISTRICT
Lee County, Florida.

A.L. WHITE
Chief Engineer.

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

Field Book
Sheet 48

PROFILE
LINE M.



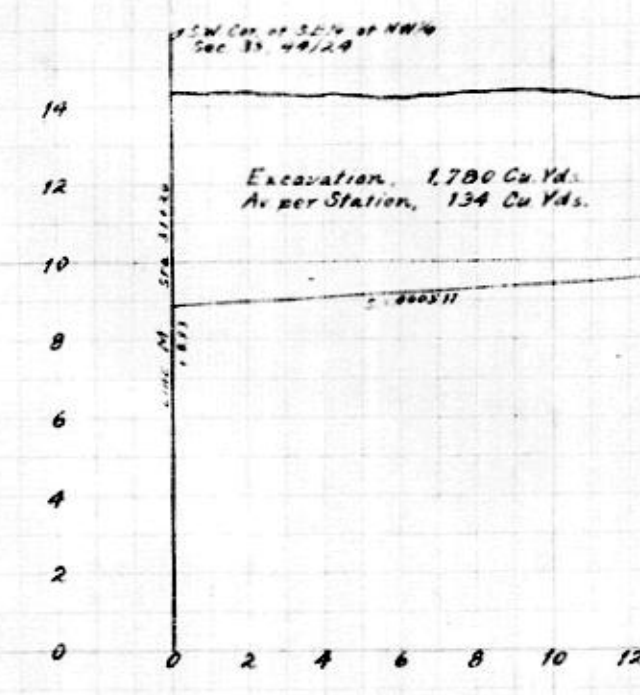
RAIL PROPERTIES

D	3
W	4
A	18
W/P	6.4
H/R	0.73
V	2.77
Cox	3.6

HYDRAULIC PROPERTIES

S	.000115
F.D	3
B.W	4
A	18
W/P	6.4
H/R	0.73
V	2.77
Cox	3.6

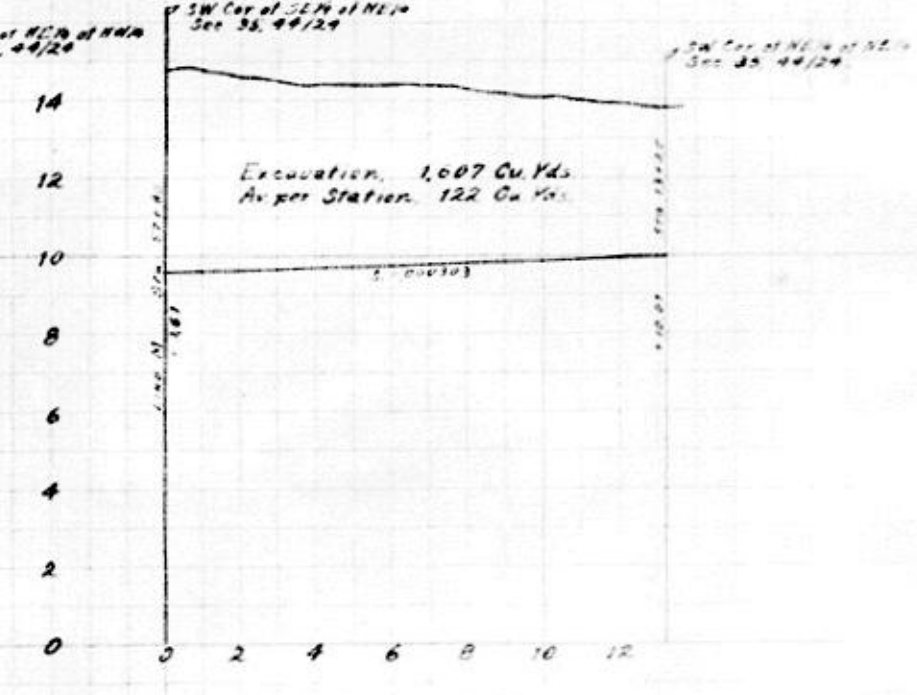
PROFILE
LINE M1



HYDRAULIC PROPERTIES

S	.00011
F.D	3
B.W	4
A	18
W/P	6.4
H/R	0.73
V	2.77
Cox	3.6

PROFILE
LINE M2



HYDRAULIC PROPERTIES

S	.000103
F.D	3
B.W	4
A	18
W/P	6.4
H/R	0.73
V	2.77
Cox	3.6

PLAN
LINES M, M1 & M2



IONA DRAINAGE DISTRICT

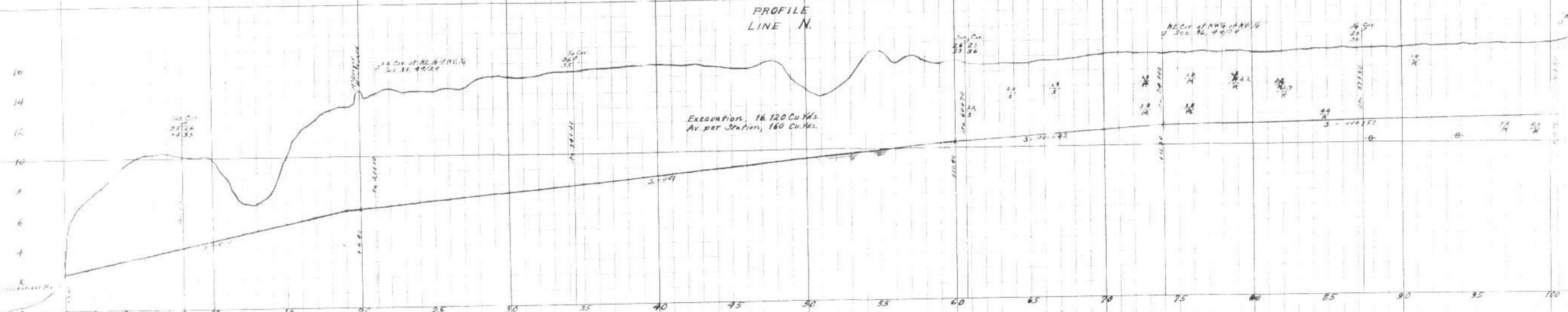
Lee County, Florida

A. L. White,
Chief Engineer.

Hor. Scale 1"=40' 0"
Vert. Scale 1"=4'

Folio 11
Sheet 49

PROFILE LINE N.



HYDRAULIC PROPERTIES.

S. 0.002
FD 2
BW 4
A 16.5
W.P. 11.72
H.R. 1.41
V. 2.00
Cap. 43
n = 0.030 c = 49.7
Side slope 2:1

HYDRAULIC PROPERTIES.

S. 0.001
FD 3
BW 4
A 16.5
W.P. 11.72
H.R. 1.41
V. 1.84
Cap. 30.4
n = 0.030 c = 49.7
Side slope 2:1

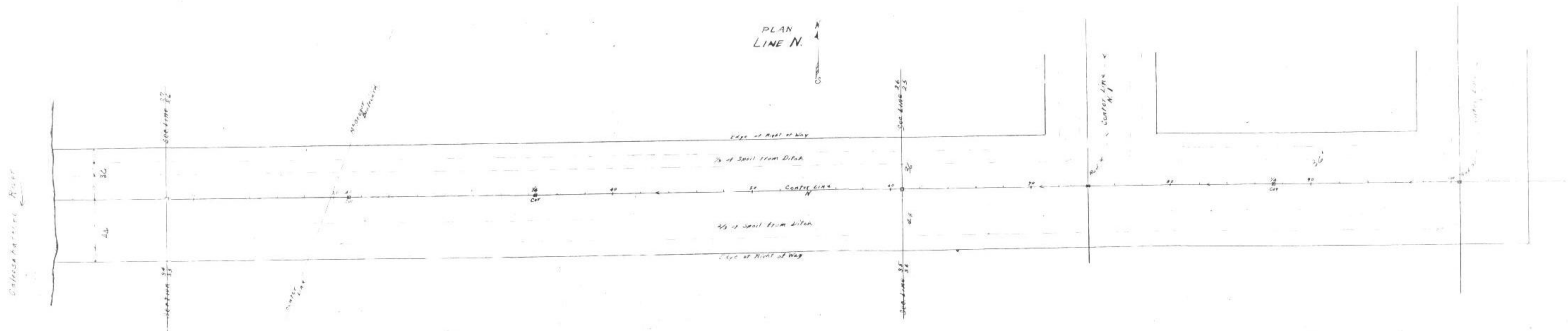
HYDRAULIC PROPERTIES.

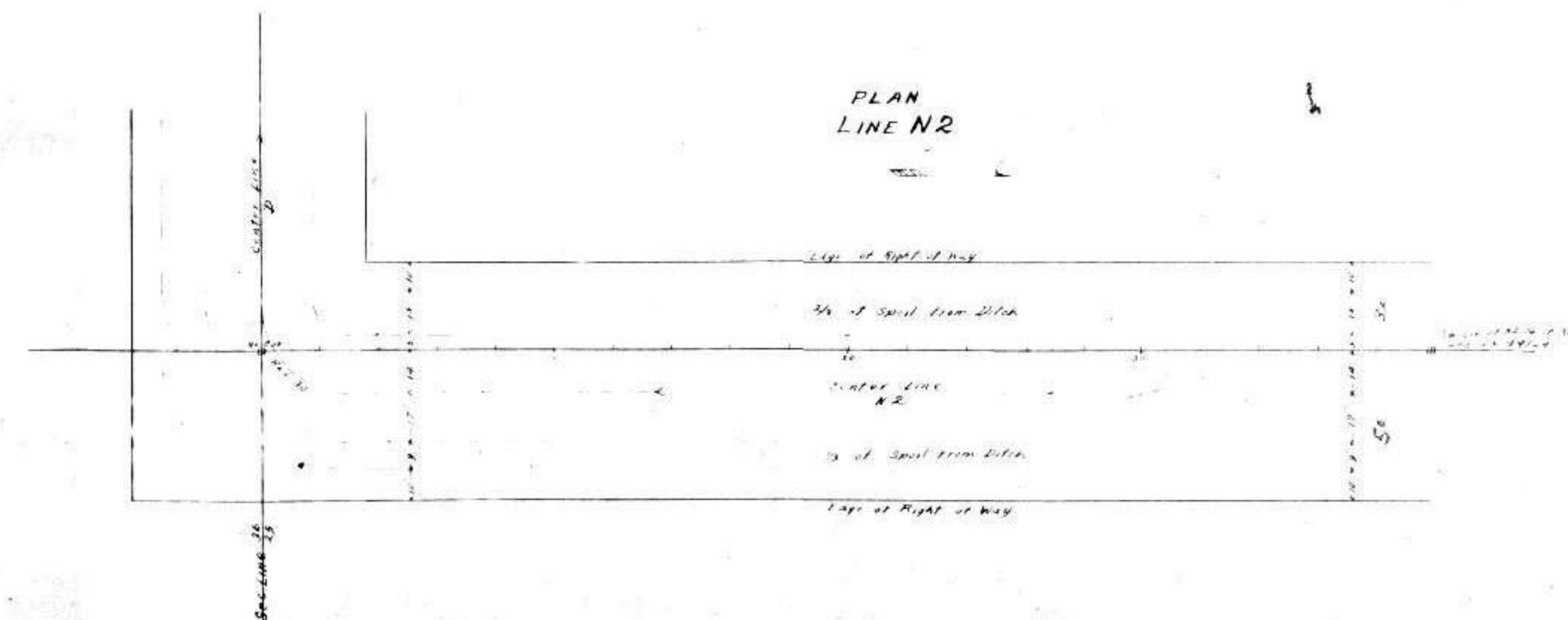
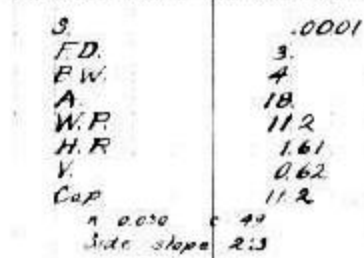
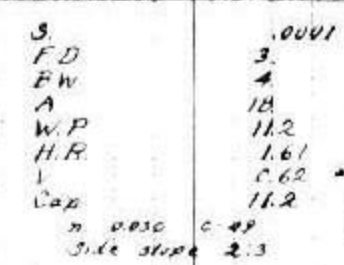
S. 0.00642
FD 3
BW 4
A 18
W.P. 11.2
H.R. 1.61
V. 1.64
Cap. 29.5
n = 0.030 c = 49.7
Side slope 2:1

HYDRAULIC PROPERTIES.

S. 0.00151
FD 3
BW 4
A 18
W.P. 11.2
H.R. 1.61
V. 1.64
Cap. 29.5
n = 0.030 c = 49.7
Side slope 2:1

PLAN LINE N.





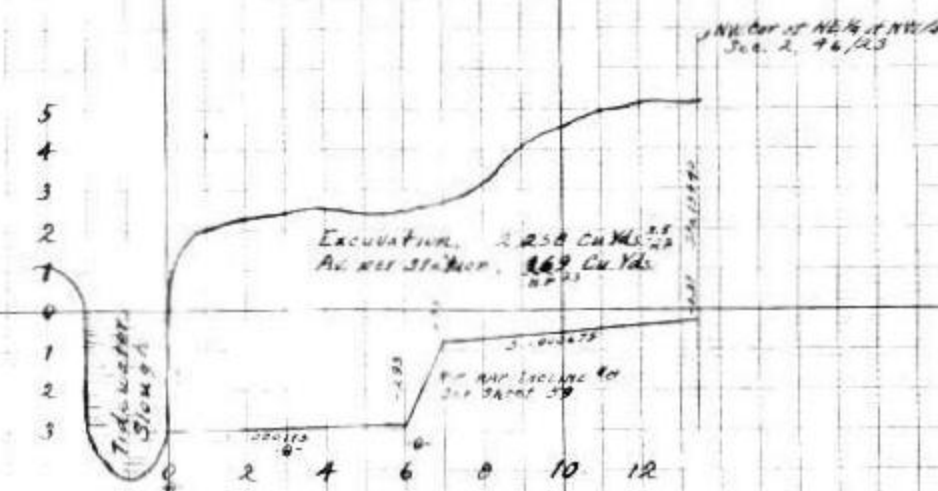
IONA DRAINAGE DISTRICT
Lee County, Florida

A. L. WHITE
Chief Engineer

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

Folio B
Sheet 51

PROFILE
LINE 0



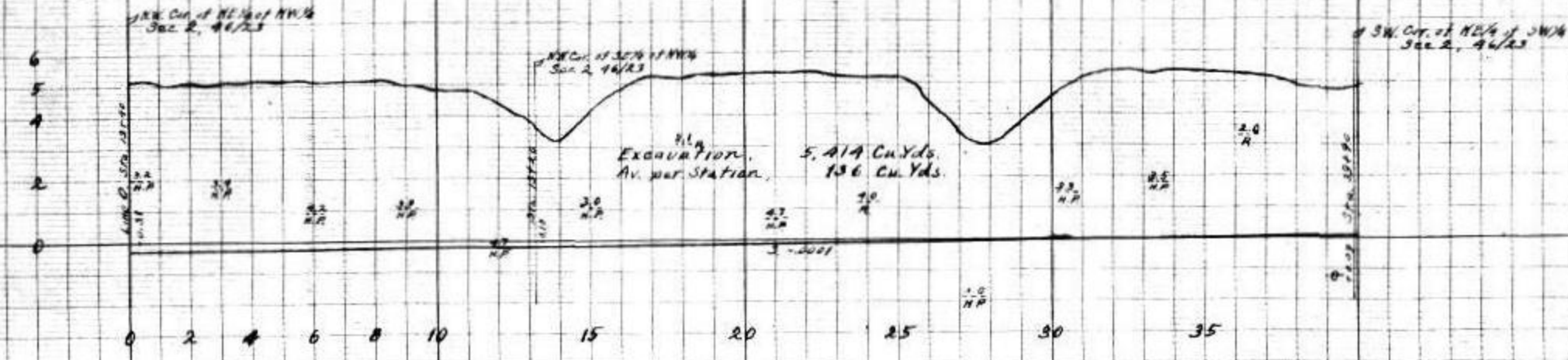
HYDRAULIC PROPERTIES

S.D. .000115
F.D. 3
B.W. 4
A. 39
W.P. 22.94
H.R. 1.7
V. .09
Cup. 27.9
n .030 c-50
Side Slope 3:1

HYDRAULIC PROPERTIES

S.D. .000675
F.D. 3
B.W. 4
A. 10
W.P. 11.2
H.R. 1.61
V. .160
Cup. 30.2
n .030 c-51
Side Slope 2:3

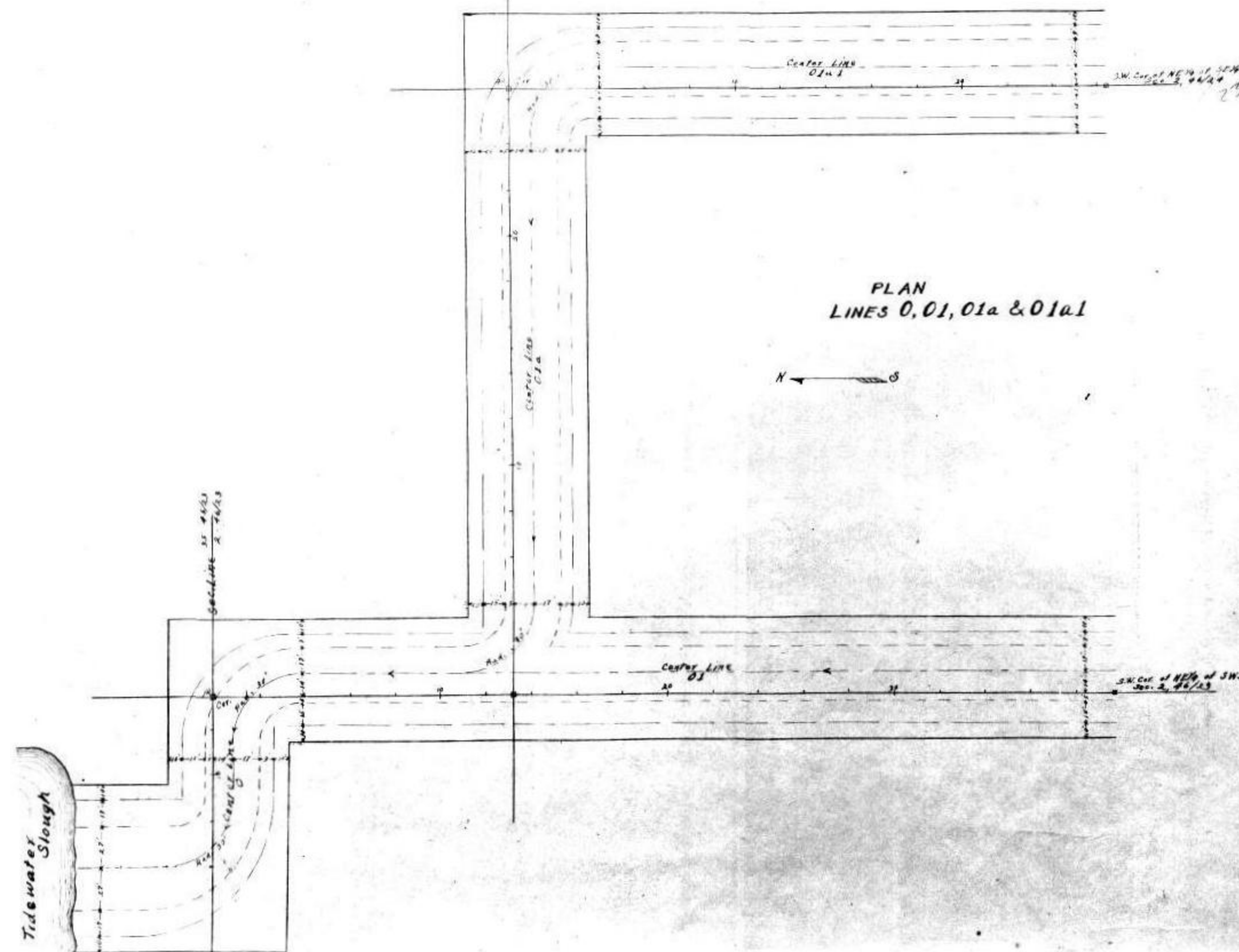
PROFILE
LINE 01



HYDRAULIC PROPERTIES

S.D. .0001
F.D. 3
B.W. 4
A. 10
W.P. 11.2
H.R. 1.61
V. .162
Cup. 30.2
n .030 c-49
Side Slope 2:3

PLAN
LINES 0, 01, 01a & 01a1

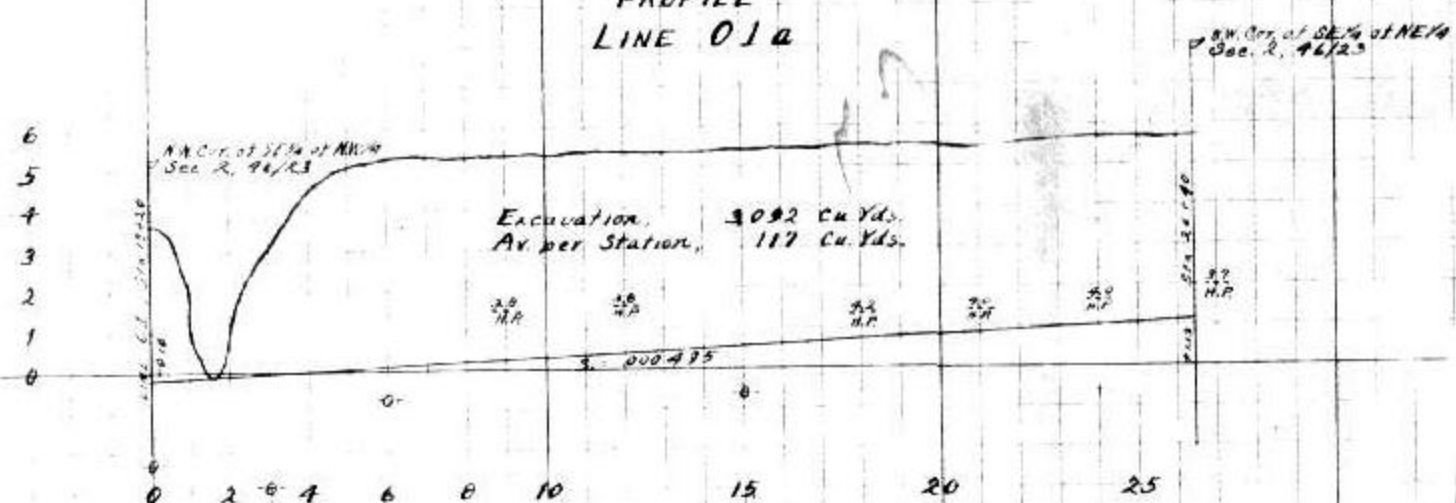


IONA DRAINAGE DISTRICT
 Lee County, Florida
 A.L. White,
 Chief Engineer

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

Folio B
 Sheet 52

PROFILE
 LINE 01a

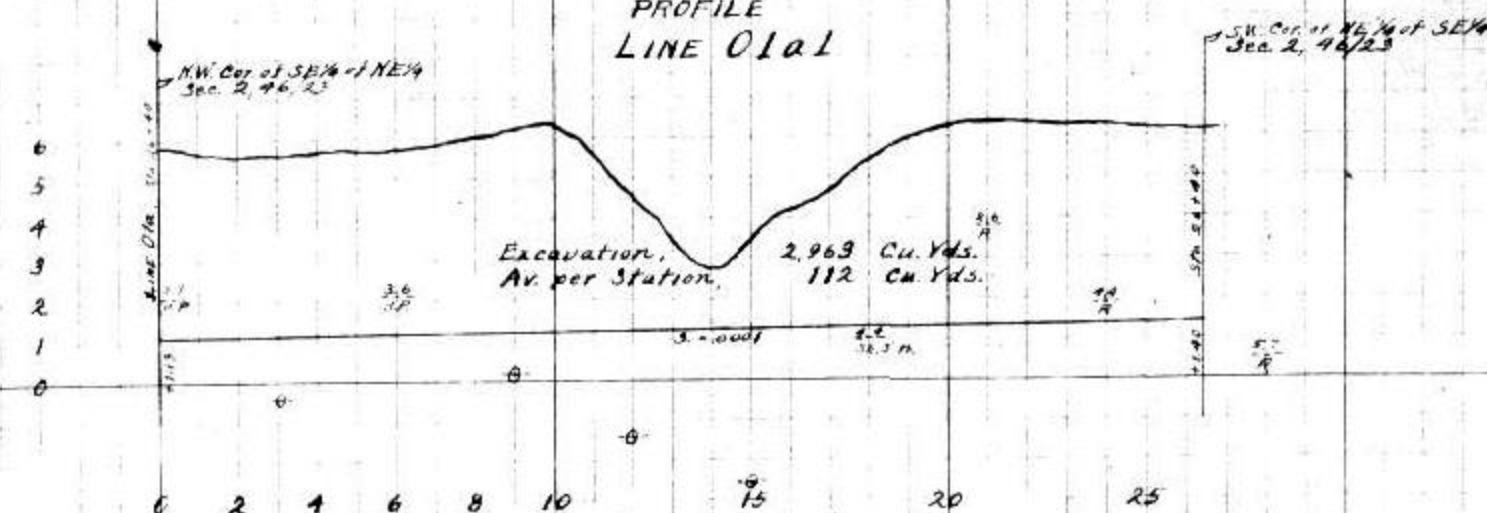


HYDRAULIC PROPERTIES

S	.000495
FD	3.
BW	4.
A	10.
W.P.	11.2
H.R.	1.61
V	1.44
Cup	2.29

n = .030 to .04
 Side slope 2:3
 For Plan, see Sheet 51

PROFILE
 LINE 01a1



HYDRAULIC PROPERTIES

S	.0001
FD	3.
BW	4.
A	10.
W.P.	11.2
H.R.	1.61
V	1.44
Cup	11.2

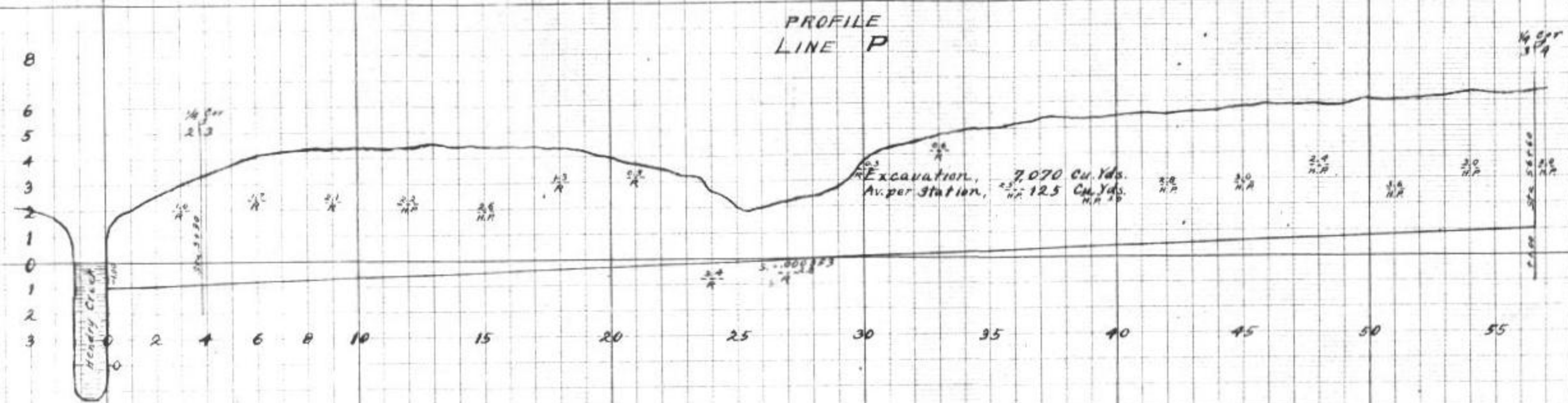
n = .030 to .04
 Side slope 2:3
 For Plan, see Sheet 51

IONA DRAINAGE DISTRICT
Lee County, Florida.

A.L. White,
Chief Engineer

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

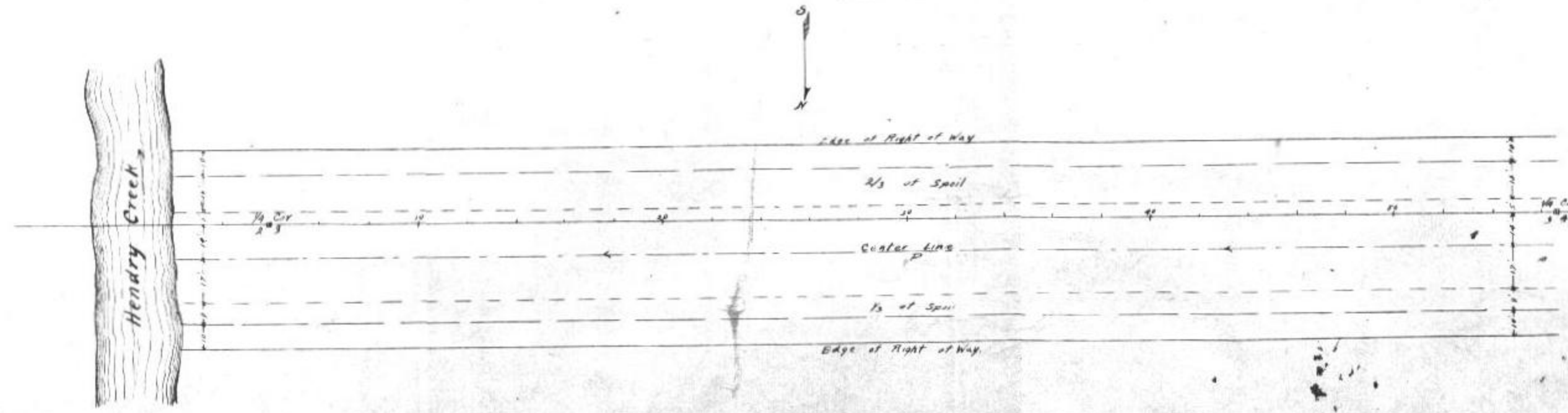
Folio B
Sheet 53



HYDRAULIC PROPERTIES

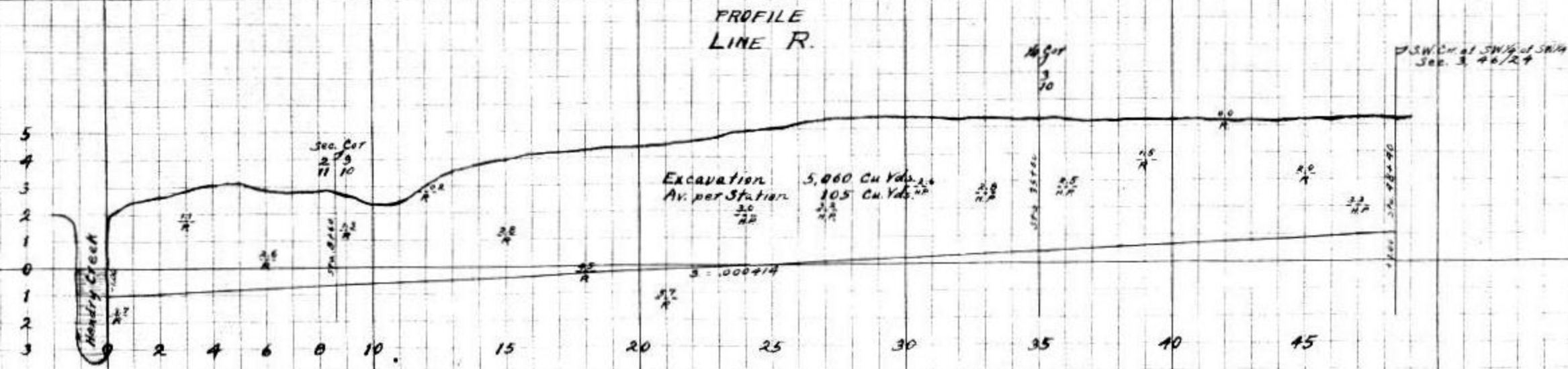
S	.000553
FD	3
B.W.	4
A	18.2
W/P	1.61
H/R	1.21
V	1.21
Cap.	2.88
n	0.030 c. 51
Side slope	2:3

PLAN
LINE P



IONA DRAINAGE DISTRICT
Lee County Florida
A. L. White
Civil Engineer

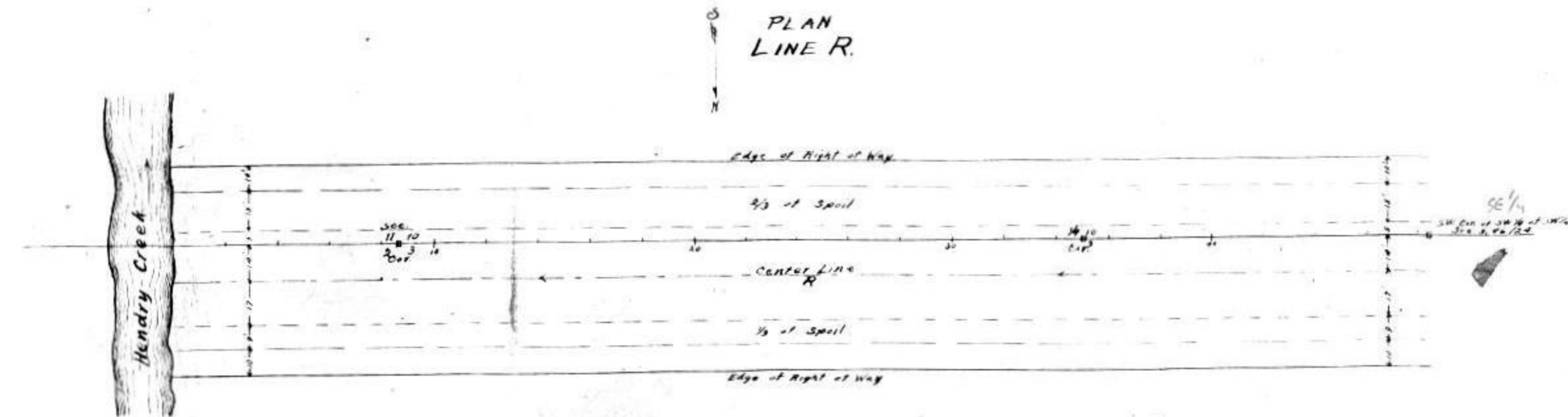
Hor. Scale 1" = 40'
Vert. Scale 1" = 4'



HYDRAULIC PROPERTIES

0.000419
FD 3
BW 4
A 10
V.F. 11.3
V.R. 1.61
V. 1.51
C.R. 2.56
n .0050 c .51
Side slope 2:3

PLAN
LINE R.



ICNA DRAINAGE DISTRICT

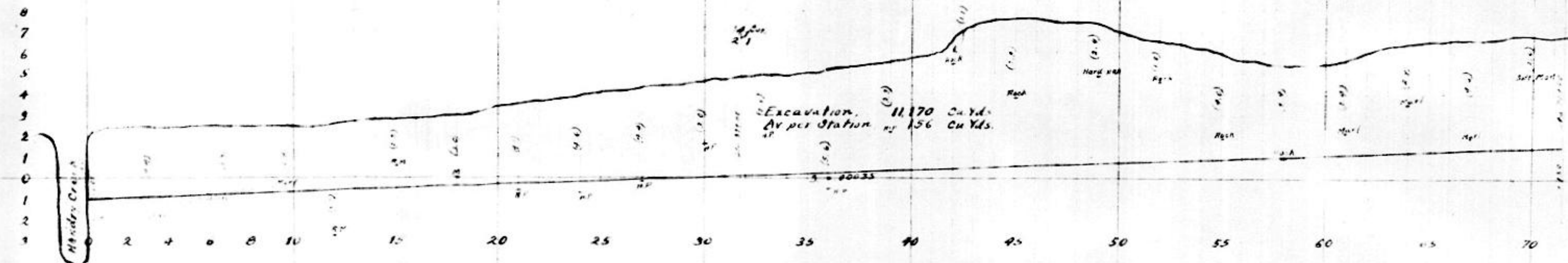
Lee County, Florida

A.L. White
Chief Engineer

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

Folio B
Sheet 53

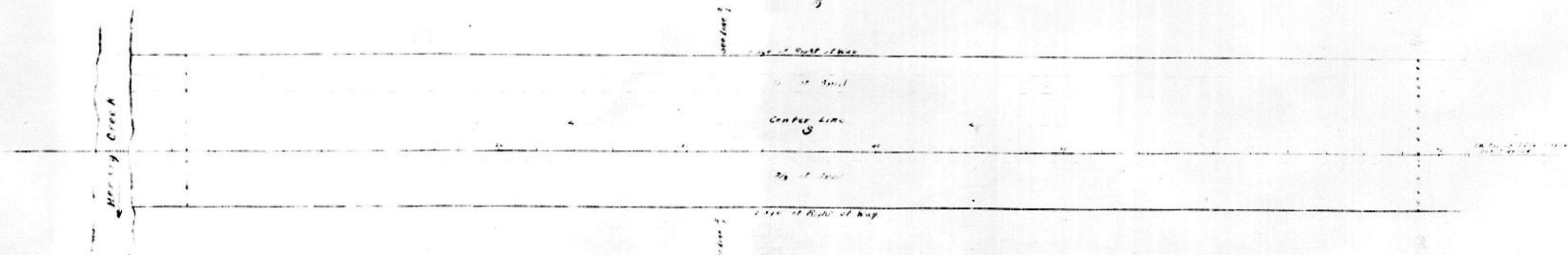
PLAN LINE S



HYDRAULIC PROPERTIES

S 0.0035
F 1.48
B 1.48
A 1.48
W 1.48
H 1.48
V 1.48
C 1.48
N 0.0035
Date 1/24/24

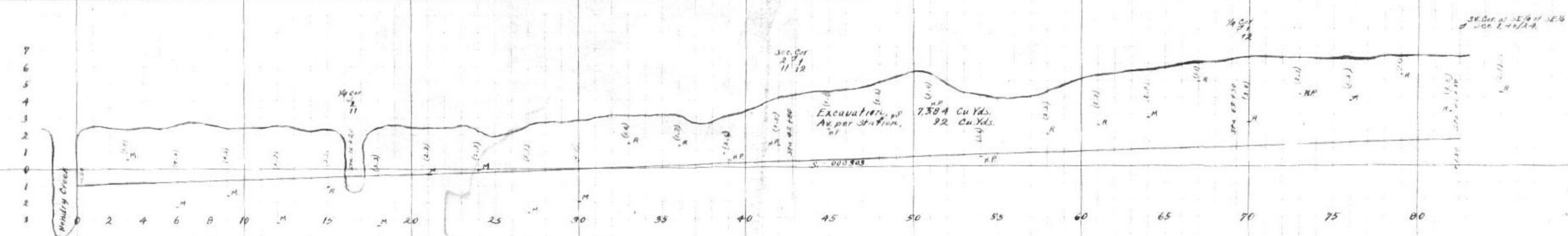
PLAN LINE S



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

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

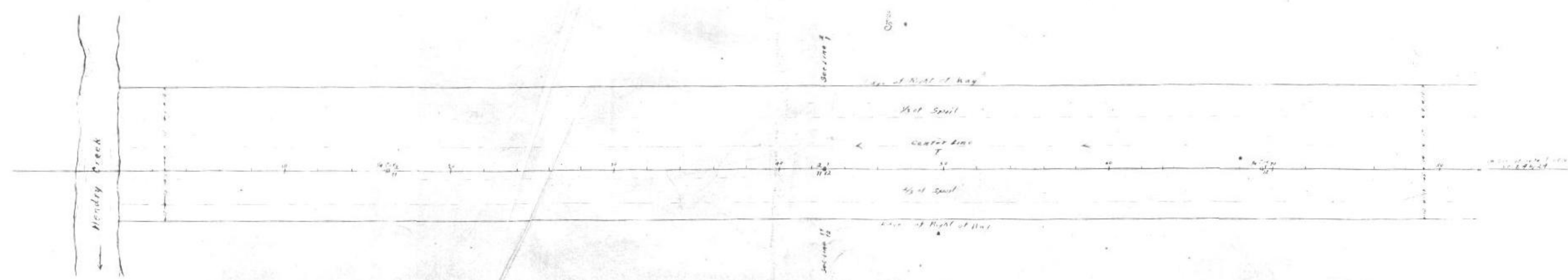
PROFILE
LINE T.



HYDRAULIC PROPERTIES.

S	.000303
F.D	3
B.W	4
A	18
W.P	11.2
H.R	1.61
V	1.13
Cap	2.13
n	.030 c. 51
Side-slope	2:3

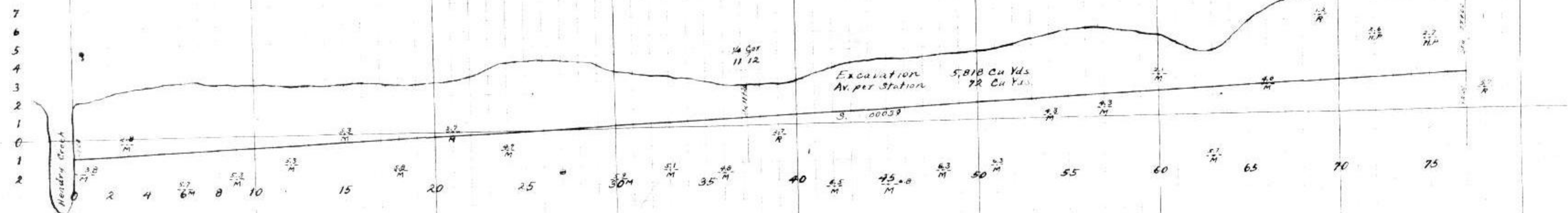
PLAN
LINE T.



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

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

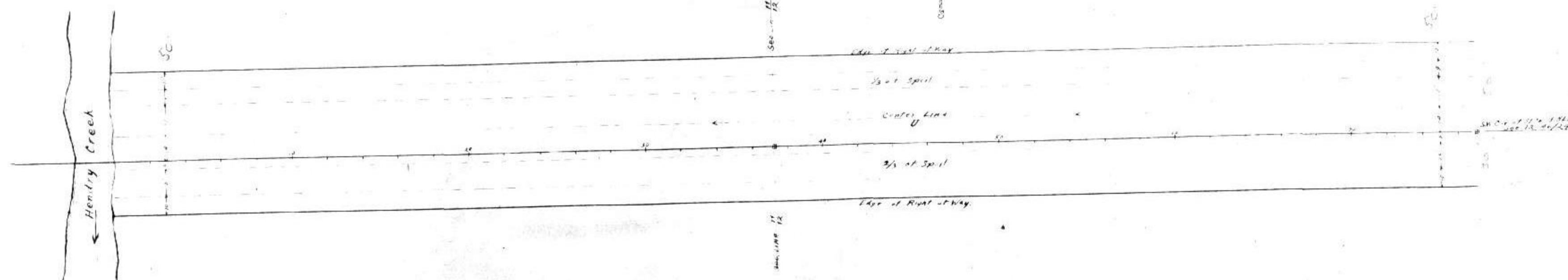
PROFILE
LINE U



HYDRAULIC PROPERTIES

B	0.0039
F.D.	3
B.W.	4
A	18
W.P.	16.2
H.R.	1.61
V	1.28
Cap.	23.0
n	0.037
Side Slope	2:3

PLAN
LINE U



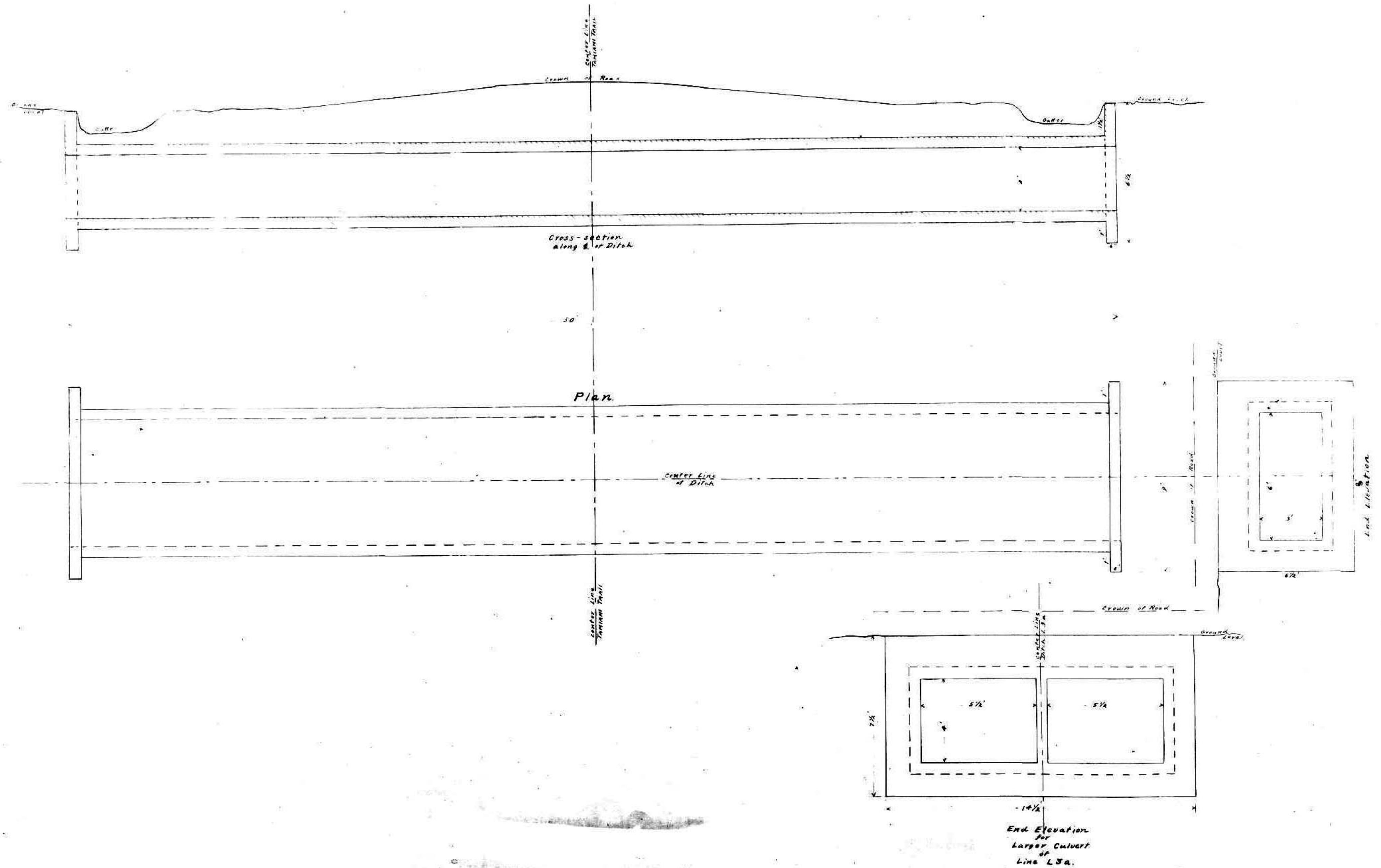
IONA DRAINAGE DISTRICT

Lee County, Florida

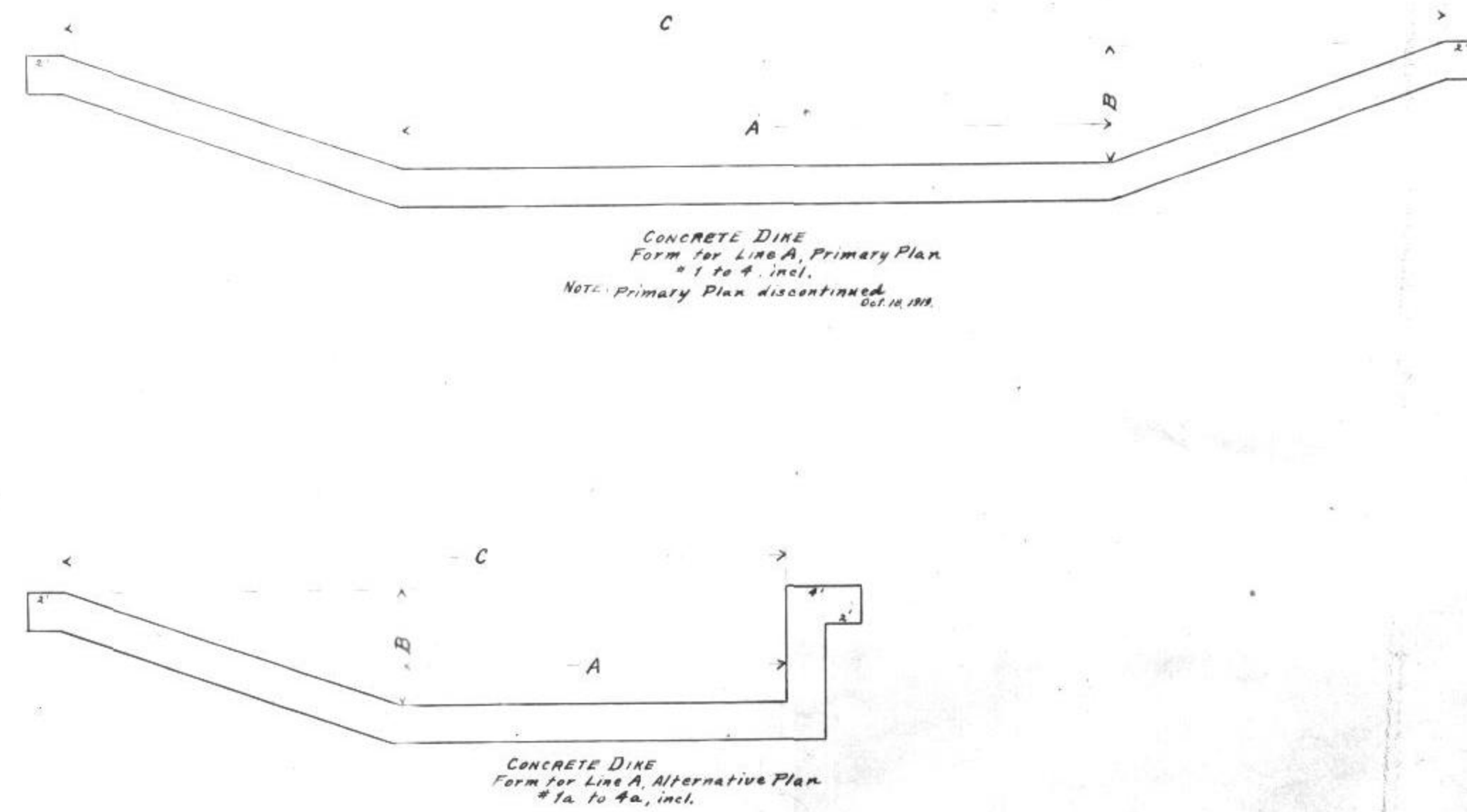
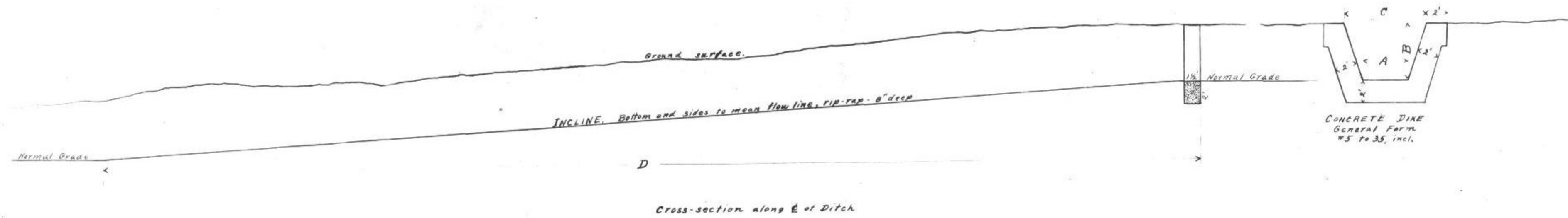
A. L. White,
Chief Engineer

Folio #
Sheet 58

Concrete Culverts.
Tamiami Trail.
Scale
1" = 2 1/2'



RIP-RAP INCLINES.



TABULATION.

No.	Ditch Line	From Station	Grade	To Station	Grade	Dimensions	Concrete Cu. Yds.	Flow Depth	Rip-Rap Cu. Yds.	Remarks
#1	A	31	-2.69	32	±0.00	69.98 4.7 98.18 100	11.5	6.0	267	For Alternative Plan Line A, 1st below
#2	A	120	+0.88	121	+4.01	64.08 4.4 90.48 100	10.6	6.0	249	D ²
#3	A	163	+4.46	164	+5.50	56.94 5.6 90.54 100	10.7	6.0	234	D ²
#4	A	269	+6.66	270	+7.57	37.91 5.7 72.11 100	8.63	6.0	189	D ²
#5	B1	26	+1.06	27	+2.06	4.00 4.8 10.40 100	2.17	3.0	28	
#6	C5	34	-0.60	35	+1.28	4.00 4.7 10.27 100	2.14	3.0	28	
#7	C7	47	+0.06	48	+2.40	4.00 5.0 10.67 100	2.22	3.0	28	
#8	E	6	-2.93	7	-0.75	4.00 3.4 8.52 100	1.80	3.0	28	
#9	F1	0	-0.21	1	+1.55	4.00 4.7 10.27 100	2.14	3.0	28	
#10	G	20	-1.73	21	-0.46	4.00 5.7 11.60 100	2.41	3.0	28	
#11	H1	1	-2.95	2	+0.95	4.00 4.8 10.40 100	2.17	3.0	28	For Alternative Plan Line H1, 1st below
#12	H2	2	-2.89	3	-1.00	4.00 4.1 8.48 100	1.98	3.0	28	D ² H2
#13	H3	0	-3.00	1	+1.00	4.00 4.5 10.00 100	2.09	3.0	28	D ² H3
#14	H4	1	-2.94	2	-0.80	4.00 6.1 12.12 100	2.52	3.0	28	D ² H4
#15	H5	1	-2.90	2	+1.40	4.00 2.8 7.72 100	1.64	3.0	28	D ² H5
#16	H6	2	-2.79	3	+1.89	4.00 4.1 9.48 100	1.98	3.0	28	D ² H6
#17	H7	1	-2.97	2	+2.86	4.00 4.8 10.40 100	2.17	3.0	28	D ² H7
#18	H8	1	-2.85	2	+2.65	4.00 3.4 8.52 100	1.80	3.0	28	D ² H8
#19	H9	1	-0.96	2	+2.48	4.00 4.5 10.00 100	2.09	3.0	28	
#20	H10	1	-2.88	2	+1.90	4.00 3.6 8.80 100	1.85	3.0	28	
#21	H11	1	-2.94	2	±0.00	4.00 4.1 9.48 100	1.98	3.0	28	
#22	H11	4	+0.12	5	+2.52	4.00 4.2 9.60 100	2.01	3.0	28	
#23	H11	12	+2.94	13	+5.20	4.00 4.6 10.12 100	2.12	3.0	28	
#24	I	4	-2.88	5	-0.99	18.06 4.8 24.40 100	3.72	3.0	62	
#25	I	20	-0.60	21	+1.16	17.60 4.3 23.32 100	3.10	3.0	61	
#26	I1	3	-0.38	4	+2.00	4.00 4.0 9.33 100	1.95	3.0	28	
#27	I1	23	+2.95	24	+5.00	4.00 5.0 10.67 100	2.22	3.0	28	
#28	J	5	-2.70	6	±0.00	4.00 4.0 9.33 100	1.95	3.0	28	
#29	J	44	+2.28	45	+5.00	4.00 4.0 9.33 100	1.95	3.0	28	
#30	L	2	-2.96	3	+0.89	22.00 3.4 26.80 100	3.84	4.0	72	
#31	L	7	+0.98	8	+3.89	22.00 4.4 27.88 100	4.06	4.0	72	
#32	L1	3	+4.10	4	+6.00	4.00 5.0 10.67 100	2.22	3.0	28	
#33	L2	1	+4.53	2	+6.54	4.00 5.3 11.08 100	2.30	3.0	28	
#34	M	6	+1.90	7	+4.00	4.00 4.0 9.33 100	1.95	3.0	28	
#35	M	13	+4.50	14	+8.04	4.00 4.2 9.60 100	2.01	3.0	28	
1a	A	31	-2.69	32	±0.00	20.49 4.7 28.63 100	5.12	6.0	98	Vertical Bank on East Side, no rip-rap
2a	A	120	+0.88	121	+4.01	10.39 4.4 21.33 100	4.75	6.0	92	D ²
3a	A	163	+4.46	164	+5.50	15.98 5.6 19.72 100	5.02	6.0	87	D ²
4a	A	269	+6.66	270	+7.57	8.96 5.7 13.76 100	4.41	6.0	72	D ²
11a	H1	1	-2.00	2	+0.95	4.00 4.8 10.40 100	2.17	3.0	28	
12a	H2	2	-1.95	3	-1.00	4.00 4.1 8.48 100	1.98	3.0	28	
13a	H3	0	-0.95	1	+1.00	4.00 4.5 10.00 100	2.09	3.0	28	
14a	H4	1	+0.10	2	+1.40	4.00 2.8 7.72 100	1.64	3.0	28	
15a	H5	2	-0.42	3	+1.89	4.00 4.1 9.48 100	1.98	3.0	28	
16a	H6	1	-1.24	2	+2.86	4.00 4.8 10.40 100	2.17	3.0	28	
17a	H7	1	-1.73	2	+2.65	4.00 3.4 8.52 100	1.80	3.0	28	

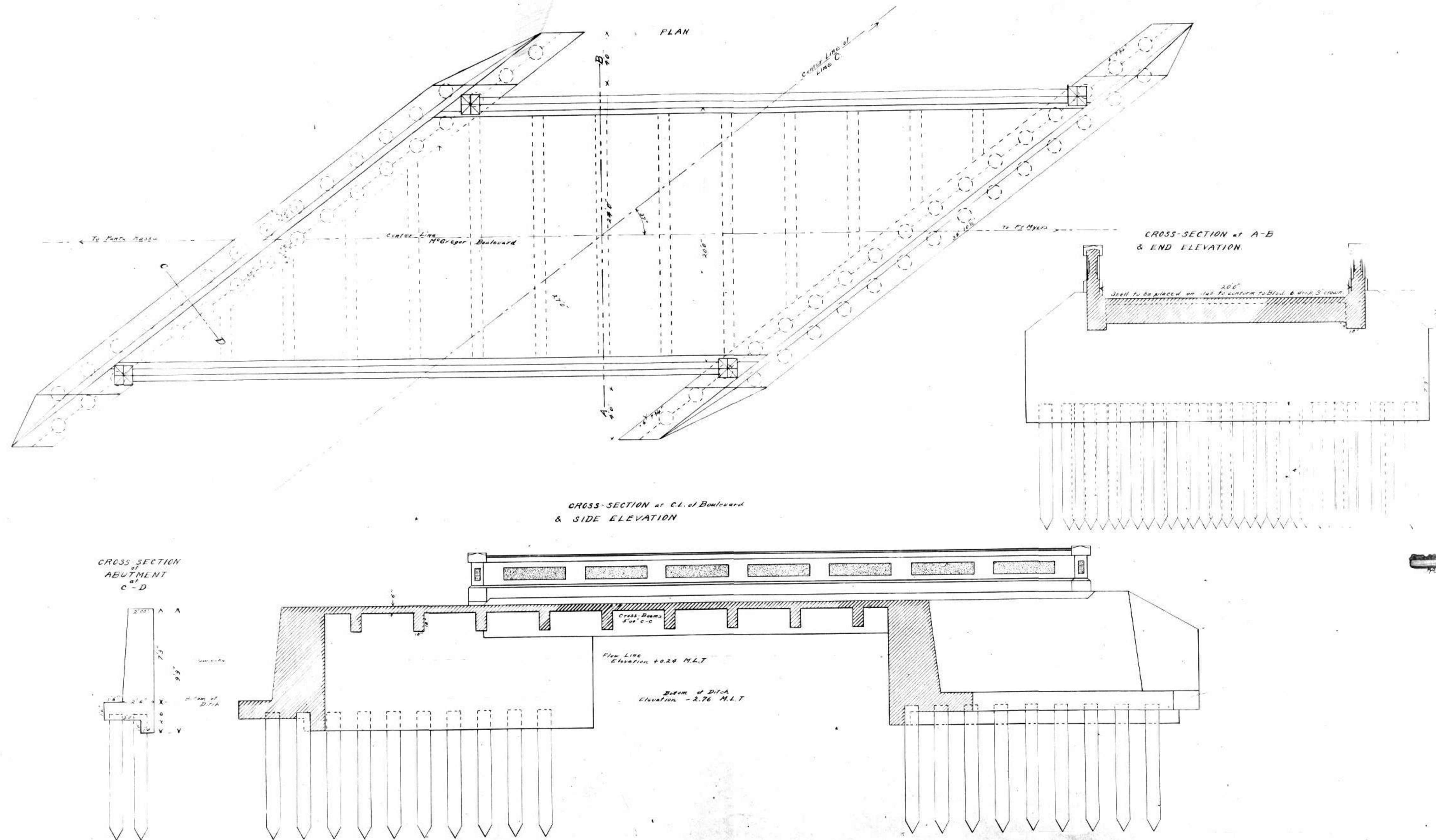
* NOTE: Inclines N² 1, 2, 3, 4, 11, 12, 13, 14, 15, 16, 17 & 18 are discontinued.
Incline N² 8, is on Line O, Sta. 6 to 7, instead of Line E.

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

Folio B
Sheet 60a

CONCRETE BRIDGE.
Span: 44 ft 10 3/4 inches

Scale 1/4" = 1'

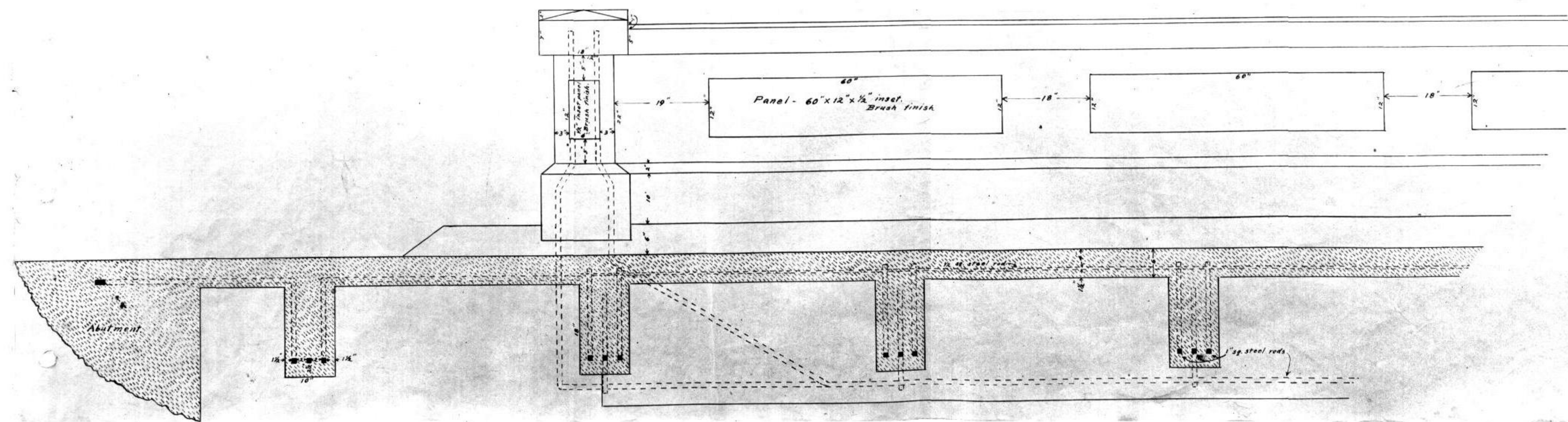
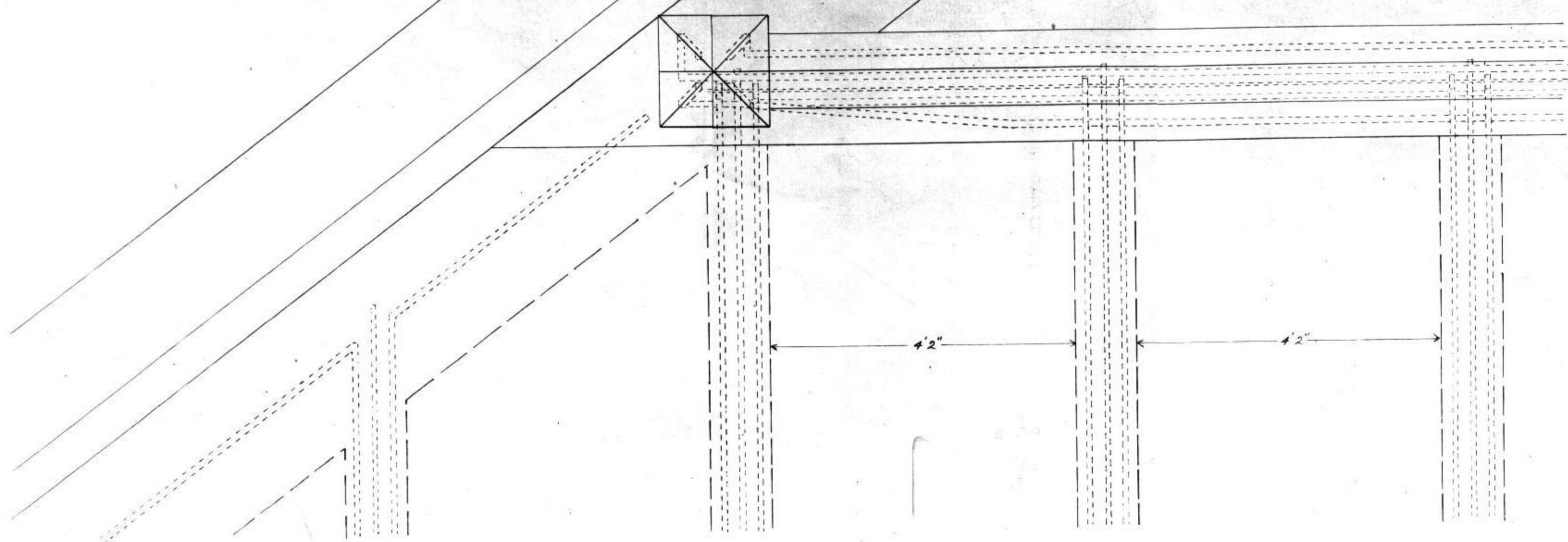
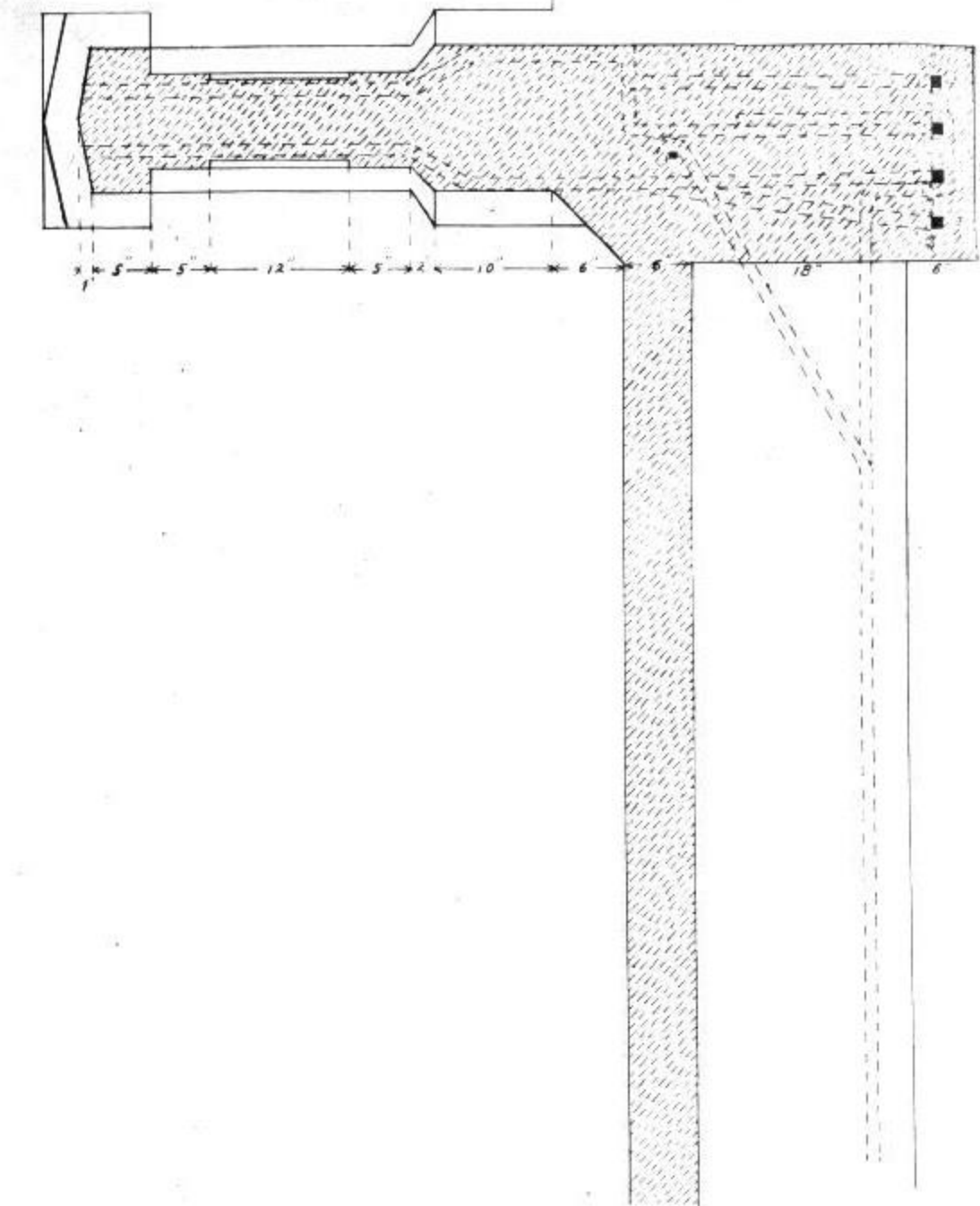


IONA DRAINAGE DISTRICT.
Lee County, Florida.
A.L. White
Chief Engineer.

Scale 1"=1'

CONCRETE BRIDGE.
Beam Reinforcement Details.

Folio B
Sheet 60b



YONA DRAINAGE DISTRICT.

Lee County, Florida.

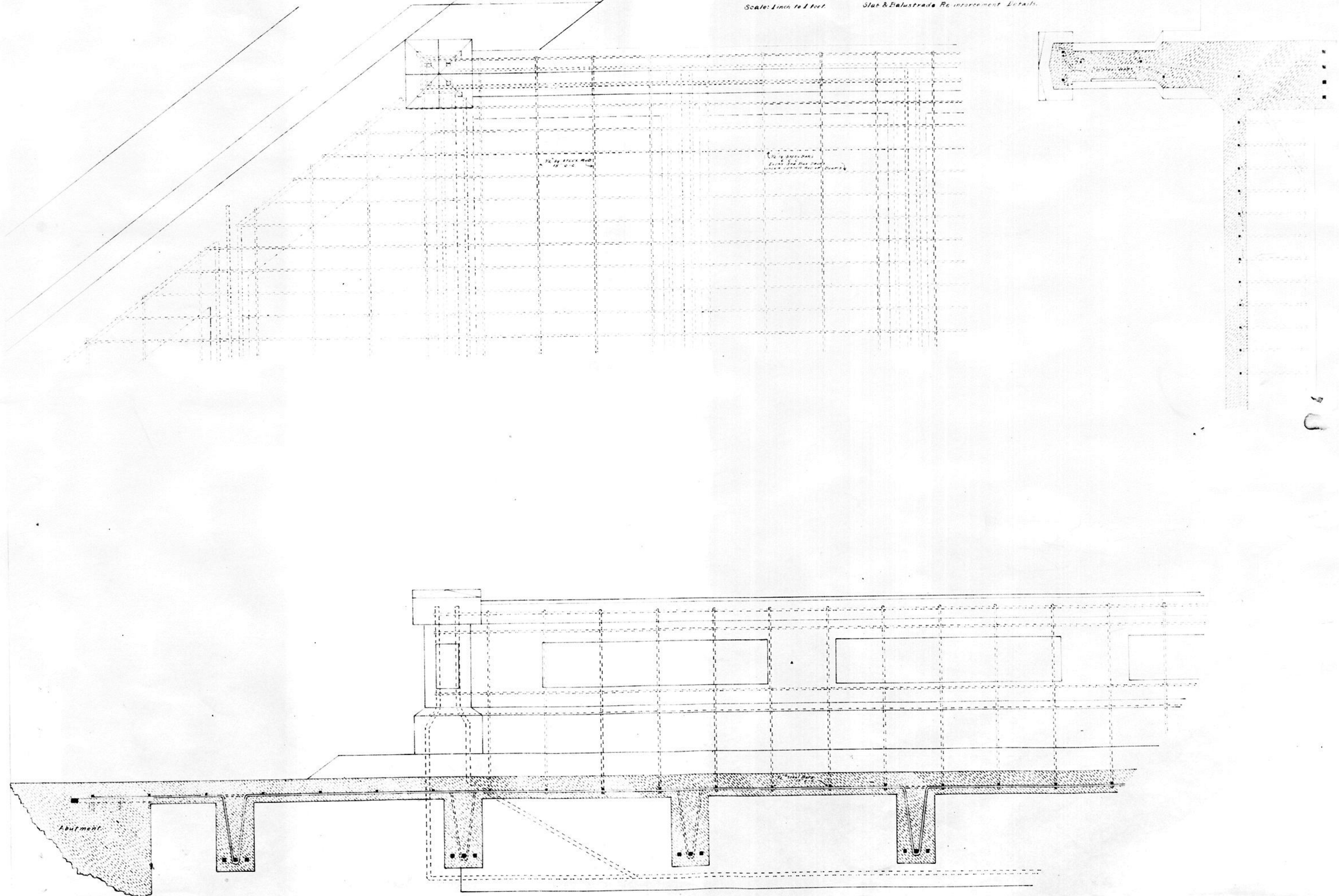
A.L. White
Chief Engineer

CONCRETE BRIDGE.

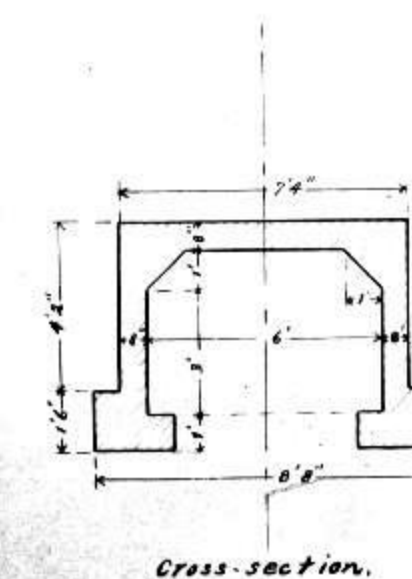
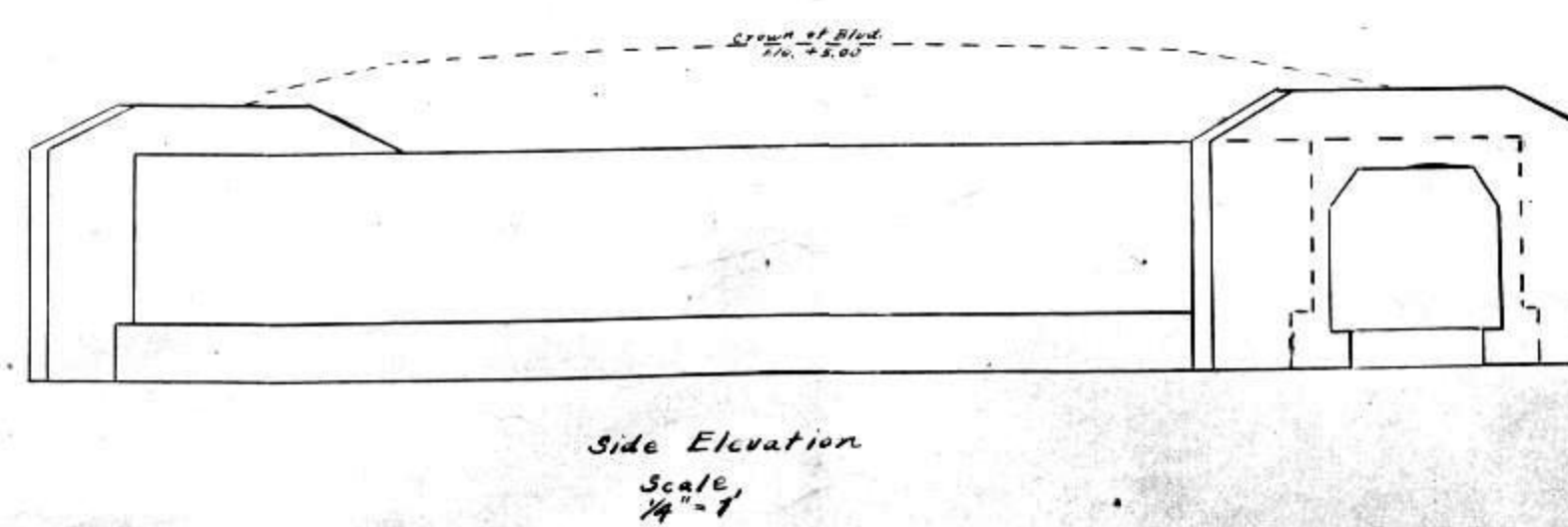
Scale: 1 inch = 1 foot.

Slab & Balustrade Reinforcement Details.

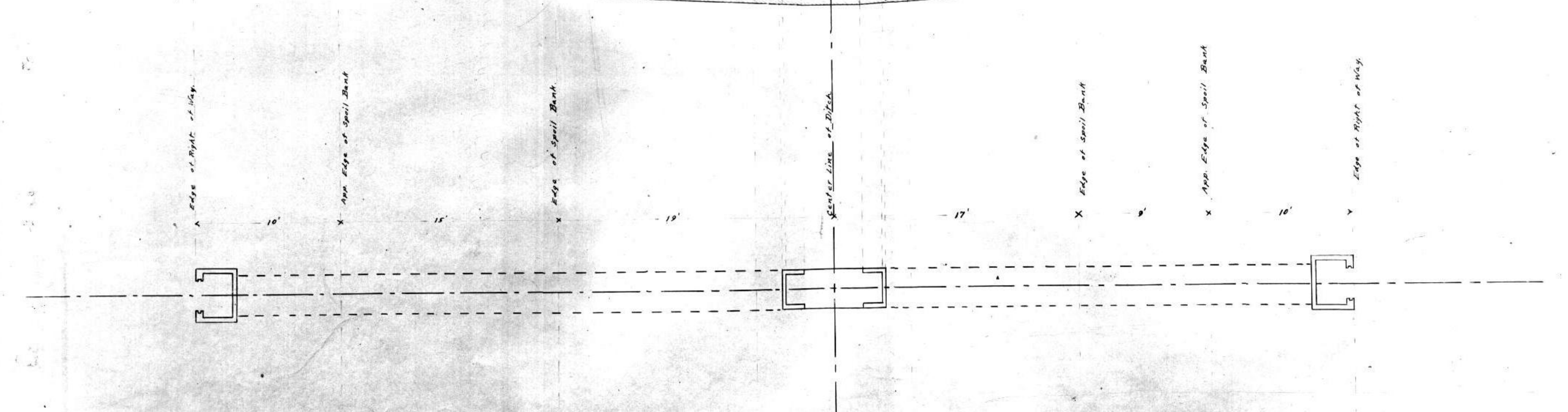
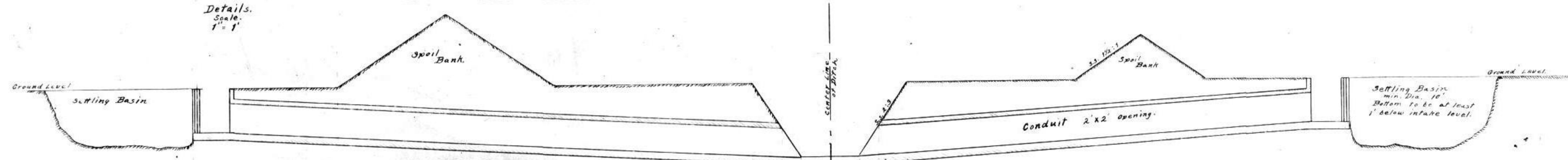
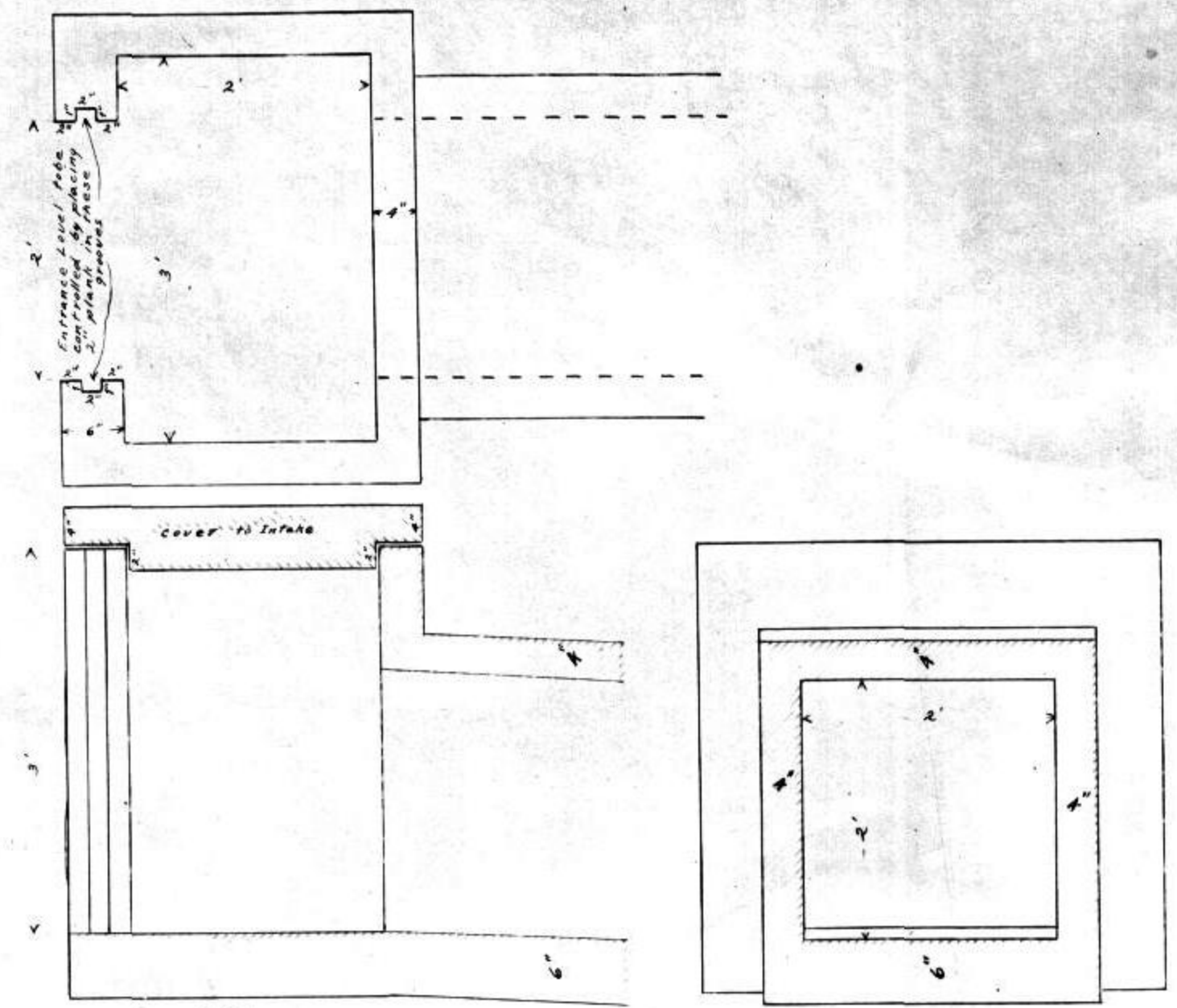
Plate B
Sheet C-10



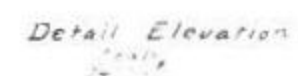
CONCRETE CULVERT
on McGregor Boulevard
over Line F.



INTAKES.

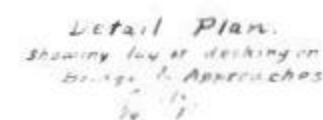


PLAN
of
Double Intake
for all 4' Ditches.
On larger size Ditches;
change length of conduit
to fit; other dimensions
remain the same.
Scale
1/4" = 1'



TIMBER BRIDGE
on Tamiami Trail over Line A.

60 F



N S