



Pony Express
4245521

RECEIVED
WATER RES. MGMT.

FEB 4 1993

February 1, 1993

Ms. Trudie Bell
Water Management Resource Section
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Trudie:

RE: - HPS Post Certification Modification.

Per your instructions, I have enclosed drawings and tables indicating the changes to the wetland impacts and wetland mitigation associated with the Hardee Power Station to Lee Substation. These changes involve a variety of items including eliminating errors on drawings, replacing corduroy roads with culverts or replacing culverts with corduroy roads, adding culverts in roadside ditches where alternate access was not available, and modifying the restoration and creation areas to comply with SWFWMD and FG&FWFC requirements. The information for culvert sizing and changing corduroy roads to culverts has been submitted and approved by SWFWMD. Under condition XXXV C. 1. c. the culvert/corduroy road activities have been determined by SECI to be minor field changes and therefore may not require a modification to our post certification approvals. The changes to the restoration/mitigation area are relatively minor changes as required by other agencies and therefore may or may not require DER approval.

Specifically, the attached drawings and tables change the amount of fill associated with the project as follows.

- . Forested wetland fill now totals 0.7 acres at a 4:1 ratio requires 0.28 acres of restoration.
- . Shrub wetland fill now totals 0.87 acres at 2:1 ratio requires 1.74 acres of restoration.
- . Herbaceous wetland fill now totals 0.69 acres at 2:1 ratio requires 1.38 acres of restoration.
- . Ditch fill has not changed from the 0.71 acres with no mitigation previously required.
- . The restoration portion of the mitigation area is now a total of 119.15 of which 13.81 acres is required for isolated wetland impacts by SWFWMD. This total does not include the 21.5 acres of wetland creation. The 105.34 acres of restoration left after isolated wetlands mitigation minus the 3.4 acres expected to be required from DER for fill mitigation would allow

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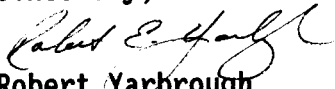
- . Wetland 2D-11 had forested clearing impacts not previously recognized but fill was no longer required in the upland ditch.
- . Wetland 2D-14 had forested clearing impacts not previously recognized.
- . Wetland 2D-15 had no changes but the drawing had culvert sizes added.
- . Ditches 2D-17 and 2D-18 no longer require the corduroy roads initially approved.
- . Wetland 2D-19-20 had the corduroy roads originally proposed replaced with culverts due to construction requirements.
- . Ditch 2D-22A was required to have a culvert and associated fill although it was had previously not required fill.
- . Ditch 2D-23 had decreased fill impacts due to access being limited to the existing low water crossing on a tributary to Prairie Creek.
- . Wetland 2C-26 had no changes but graphical errors were corrected.
- . Ditch 2C-32A was added and required a corduroy road.
- . Wetland 2C-32 was changed to 2C-32B for clarification and the corduroy road impacts were limited to lesser acreage.
- . Roadside ditch 2C-32C was added and required a culverted road.
- . Wetland 2L-80 had no changes but had graphical errors corrected.

The mitigation area was changed in the following ways for the following reasons.

- . The berm in Slough #3 was required by FG&FWFC to be located away from a pine area which was believed to contain fox squirrels. This change decreased the area to be restored by 5.12 acres.
- . Slough 3 weir elevation was changed from 24.2 NGVD to 25.03 based on additional data from piezometers and an on-site staff gauge.
- . Due to the SWFWMD the creation area has been modified from 20.0 acres to 21.5 acres with the connections only to slough 2. Numerous details have been modified such as topography, location of type for type areas, sizes and species to be planted, numbers of plants to be planted, and grades and areas to be planted with specific species. Since this area was not considered to be mitigation by DER, these changes should be insignificant.

We are hoping to let a contract to construct the creation area and the berms on the sloughs in late February therefore we need to have your approval (if required) on the changes in the creation area and restoration area berms before late February. I apologize for the late notice but the changes to the construction drawings were made in December due to SWFWMD and FG&FWFC requirements. Please advise us if you require any additional information.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert Yarbrough".

Robert Yarbrough
Environmental Engineer

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FEB 10 1968

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HPS - VANDOLAH SEGMENT
TABLE 1
WETLAND ACTIVITIES
(FDER JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.RD	FILLED	FILLED
A	-	-	*	-	-	-	-
B	-	-	*	-	-	-	-
C	1.06	-	0.23	-	-	-	-
D	2.07	-	-	-	-	-	-
E	0.07	-	1.95	0.25	-	-	-
F	-	-	-	-	-	*	-
G	-	-	*	*	-	-	-
H	-	-	-	-	-	**	-
I	-	-	-	-	-	*	-
J	-	-	-	-	-	**	-
K	-	-	2.01	0.56	-	-	-
RR SPUR	-	-	-	-	-	-	0.03
RR Ditch	-	-	-	-	-	-	0.05
TOTAL (Acres)	3.20	-	4.19	0.84	-	-	0.08

* Isolated (Non FDER Jurisdiction)

** No Clearing or Filling Required

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VANDOLAH - ARCADIA SEGMENT
TABLE 1
(FDER/SWFMD JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.RD	FILLED	FILLED
M	-	-	-	-	-	**	-
N	-	-	0.01	-	0.01	-	-
O	-	-	-	-	-	**	-
P	-	-	-	-	0.01	-	-
Q	-	-	-	-	-	***	-
R	-	-	-	-	0.01	-	-
S	-	-	**	-	-	-	-
T	-	-	-	-	-	**	-
U	-	-	0.05	-	0.04	-	-
W	-	-	0.32	0.01	-	**	-
X,Y,Z	-	-	-	-	-	-	*
AA	0.60	-	-	-	-	-	-
BB	-	-	0.24	0.06	-	-	-
CC	-	-	0.04	-	-	-	-
DD	-	-	0.06	-	-	**	-
EE	-	-	-	-	-	-	*
FF	-	-	-	-	-	-	*
GG	-	-	-	-	0.04	-	-
HH	1.19	-	-	-	-	-	-
II	-	-	-	-	-	-	**
JJ	-	-	**	-	-	-	-
KK	1.00	-	0.15	-	-	-	0.04
LL,MM	0.52+	-	-	-	-	-	-
NN	2.29	-	-	-	-	-	-
SUB-TOTAL	5.60	0.00	0.87	0.07	0.11	0.00	0.04

* COE Jurisdiction Only

*** Isolated Wetlands

** No Clearing or Filling Required

+ No Clearing Compensation Required by SWFWMD

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VANDOLAH - ARCADIA SEGMENT
TABLE 1 (CONTINUED)
(FDER/SWFWD JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.Rd	FILLED	FILLED
00	0.14	-	0.24	-	-	-	-
PP	-	-	-	-	-	-	0.04
QQ	1.01	-	-	-	0.03	-	-
SS	0.91	-	0.85	0.40	-	-	-
TT	-	-	-	0.18	0.02	-	-
UU	-	-	0.01	-	0.01	-	-
VV	-	-	0.27	-	0.01	-	-
WW,XX, YY	*	-	-	-	-	**	-
ZZ	-	-	0.27	0.22	-	-	-
BBB	-	-	-	-	-	***	-
CCC	-	-	-	-	-	***	-
DDD	-	-	0.03	-	-	**	-
EEE	-	-	0.34	-	-	-	-
FFF	-	-	0.03	-	-	-	-
GGG	-	-	-	-	-	-	-
HHH	-	-	0.03	-	-	-	-
III	0.60	0.07	-	-	-	-	-
JJJ	***	-	***	-	-	-	-
KKK	-	-	0.00	-	-	-	-
LLL	-	-	-	-	-	-	**
MMM	-	-	-	-	-	-	*****
SUB TOTAL	2.66	0.07	2.07	0.80	0.07	0.00	0.04

* Slash Pine Overstory
*** Isolated Wetland

** No Clearing or Filling Required
***** Area is Peace River - Open Water

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VANDOLAH - ARCADIA SEGMENT
TABLE 1 (CONTINUED)
(FDER/SWFMD JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.RD	FILLED	FILLED
NNN	0.39	-	0.02	-	-	-	-
OOO	-	-	-	-	-	0.00*	-
PPP	0.04	-	-	-	-	-	-
QQQ	-	-	-	-	-	-	-
RRR	***	-	-	-	-	-	-
SSS	***	-	-	-	-	-	-
TTT	1.73	-	0.07	-	-	-	-
* *	-	-	-	-	-	-	0.01
+	-	-	-	-	-	-	0.04
SUB TOTAL	2.16	0.00	0.09	0.00	0.00	0.00	0.05
TOTAL DER	10.42	0.7	3.03	0.87	0.18	0.00	0.13

*** Isolated Wetland (Non DER Jurisdiction)

* Existing low water crossing (no actual fill to be used)

* * Ditch located at station 864+00 (Figure 42)

+ Ditches located at station 1410+40 and 1416+80

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ARCADIA - LEE SEGMENT
TABLE 1
(FDER/SWFMD JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.RD	FILLED	FILLED
2D-1	-	-	0.04	-	-	-	-
2D-2	-	-	0.07	-	-	-	-
2D-3	1.25	-	-	-	-	-	-
2D-4	-	-	-	-	-	***	-
2D-5	-	-	-	-	-	-	-
2D-6	-	-	-	-	-	-	-
2D-7	0.60***	-	-	-	-	-	-
2D-8	-	-	-	-	-	-	**
2D-9	0.47	-	-	-	-	-	**
2D-10	-	-	-	-	-	-	0.01
2D-11	0.07	-	-	-	-	-	-
2D-12	-	-	-	-	-	-	0.02
2D-13	-	-	-	-	-	-	**
2D-14	0.28	-	0.15	-	-	-	-
2D-15	-	-	-	-	-	-	0.02
2D-16	0.27	-	-	-	-	-	-
2D-17	-	-	-	-	-	-	-
2D-18	-	-	-	-	-	-	-
2D-19	-	-	-	-	-	-	0.02
2D-20	-	-	-	-	-	0.31	-
2D-21	-	-	-	-	-	**	-
2D-22	-	-	-	-	-	0.38	-
2D-22A	-	-	-	-	-	-	0.02
2D-23	-	-	-	-	-	-	0.02
2D-24	-	-	-	-	-	**	-
SUB-TOTAL	2.94	0	0.26	0	0	0.69	0.11

** No Clearing or Filling Required \ *** Isolated Wetlands(Non-DER jurisdictional)

REG. RES. NO.

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ARCADIA -LEE SEGMENT
TABLE 1 (CONTINUED)
(FDER/SWFMD JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.Rd	FILLED	FILLED
2C-25	-	-	0.10	-	-	**	-
2C-26	-	-	0.13	-	-	-	-
2C-27	-	-	-	-	-	-	0.01
2C-28	-	-	-	-	-	-	0.01
2C-29	-	-	-	-	-	**	-
2C-30	-	-	-	-	-	-	0.01
2C-31	-	-	-	-	-	-	0.01
2C-32A	-	-	-	-	-	-	0.04
2C-32B	-	-	-	-	0.01	-	-
2C-32C	-	-	-	-	-	-	0.02
2C-33	-	-	-	-	-	-	0.02
2C-34	-	-	-	-	-	-	0.03
2C-35	-	-	0.10	-	-	-	-
2C-36	-	-	-	-	-	-	-
2C-37	-	-	-	-	-	-	0.01
2C-38	-	-	-	-	-	-	0.03
2C-39	-	-	-	-	-	-	0.01
SUB TOTAL	0	0	0.33	0	0.01	0	0.19

** No Clearing or Filling Required

*** Isolated Wetland (Non DER Jurisdiction)

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ARCADIA - LEE SEGMENT
TABLE 1 (CONTINUED)
(FDER/SWFMD JURISDICTION)

FORESTED WETLAND			DISTURBED SHRUB WETLAND			MARSH	UPLAND DITCH
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.RD	FILLED	FILLED
2C-40	0.76	-	-	-	-	-	-
2C-41	-	-	-	-	-	**	-
2C-42	-	-	-	-	-	**	-
2C-43	-	-	-	-	-	**	-
2C-44	-	-	-	-	-	**	-
2C-45	-	-	-	-	-	**	-
2C-46	-	-	-	-	-	**	-
2C-47	-	-	-	-	-	-	0.01
2C-48	-	-	-	-	-	**	-
2C-49	-	-	-	-	-	**	-
2C-50	-	-	-	-	-	**	-
2C-51	-	-	-	-	-	-	0.05
2C-52	-	-	-	-	-	**	-
2C-53	-	-	-	-	-	**	-
2C-54	-	-	-	-	-	**	-
2C-55	-	-	-	-	-	**	-
2C-56	-	-	-	-	-	**	-
2C-57	-	-	-	-	-	**	-
2C-58	-	-	-	-	-	**	-
SUB TOTAL	0.76	0	0	0	0	0	0.06
SWFWMD TOTAL	3.7	0	0.33	0	0.01	0	0.46

** Hydric hardwoods/wet prairie - sparse canopy of slash pine to be cleared

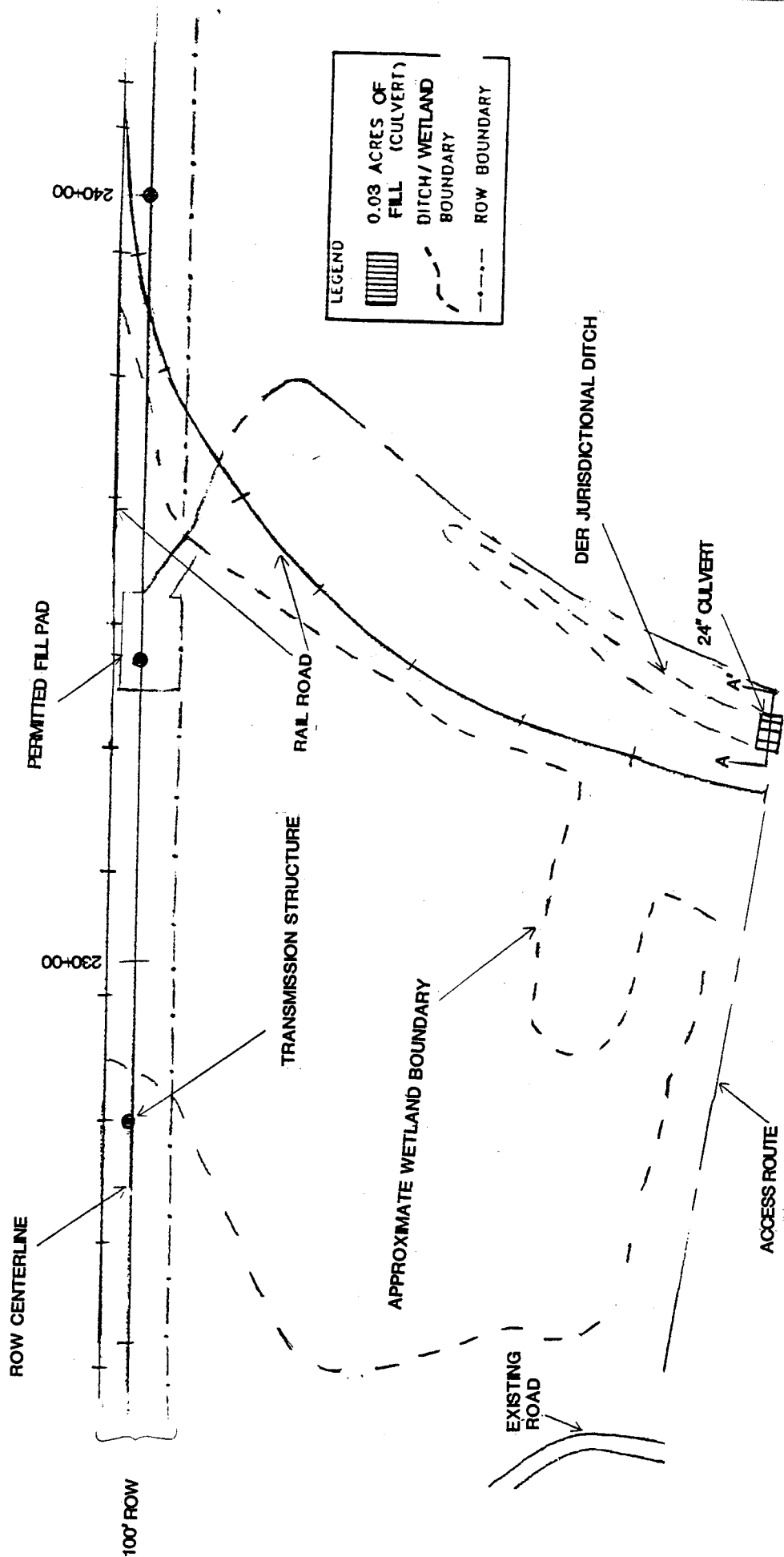
RES. MGR.
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ARCADIA - LEE SEGMENT
TABLE 1 (CONTINUED)
(FDER/SFWMD JURISDICTION)

FORESTED WETLAND		DISTURBED SHRUB WETLAND		MARSH		CHANNELIZED STREAM
------------------	--	----------------------------	--	-------	--	-----------------------

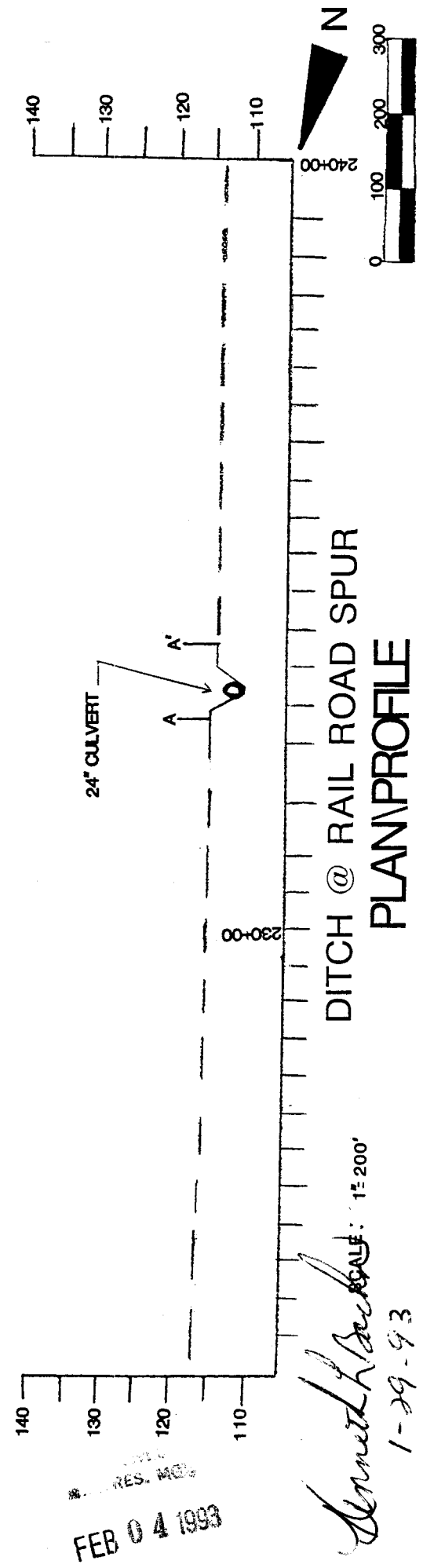
WETLAND	CLEARED	FILLED	CLEARED	FILLED	CORD.Rd	FILLED	FILLED
2L-59	-	-	-	-	-	**	-
2L-60	-	-	-	-	-	**	-
2L-61	-	-	-	-	-	**	-
2L-62	-	-	-	-	-	**	-
2L-63	-	-	-	-	-	**	-
2L-64	-	-	-	-	-	**	-
2L-65	-	-	-	-	-	**	-
2L-66	-	-	-	-	-	**	-
2L-67	-	-	-	-	-	**	-
2L-68	-	-	-	-	-	**	-
2L-69	-	-	-	-	-	-	0.02
2L-70	-	-	-	-	-	**	-
2L-71	-	-	-	-	-	**	-
2L-72	-	-	-	-	-	**	-
2L-73	-	-	-	-	-	**	-
2L-74	-	-	-	-	-	**	-
2L-75	-	-	-	-	-	**	-
2L-76	-	-	-	-	-	**	-
2L-77	-	-	-	-	-	**	-
2L-78	-	-	-	-	-	**	-
2L-79	-	-	-	-	-	-	0.02
2L-80	0.67	-	-	-	-	-	-
SUBTTL.	0.67	0	0	0	0	0	0.04
SFWMD	0.67	0	0	0	0	0	0.04
FDER TOTAL	4.37	0	0.59	0	0.01	0.69	0.5

FILED 3-2-1998



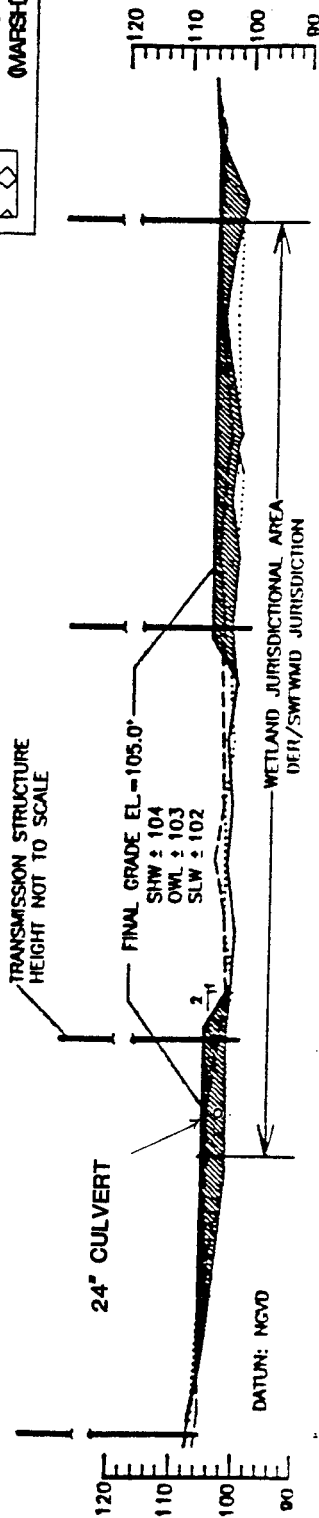
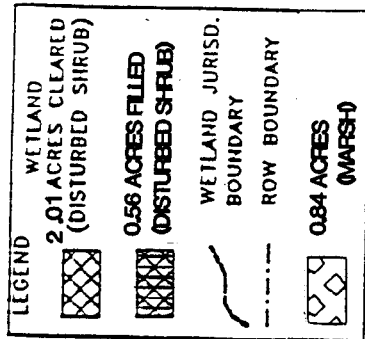
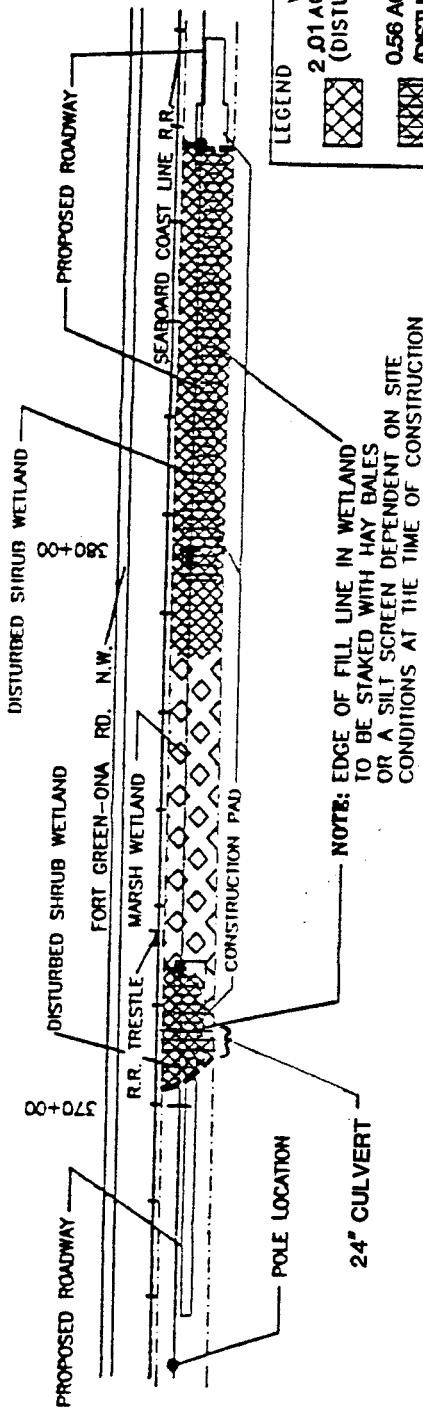
LEGEND

	0.03 ACRES OF FILL (CULVERT)
	DITCH / WETLAND BOUNDARY
	ROW BOUNDARY

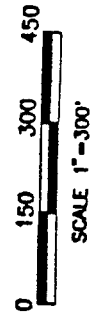
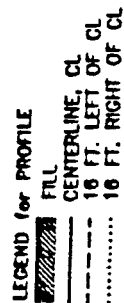


**DITCH @ RAIL ROAD SPUR
PLAN/PROFILE**

Annexed to Back
 SCALE: 1" = 200'
 1-29-93
 FEB 04 1993
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NOTE: SURVEY INFORMATION DETERMINED BY AERIAL PHOTOMETRIC METHODS



DATE: 7/17/91

WETLAND "K" PLAN/PROFILE

SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED



FIGURE 10
1-29-93

FDER/SWFWMD
JURISDICTION
SHRUB/MARSH WETLAND

TRANSMISSION
STRUCTURE

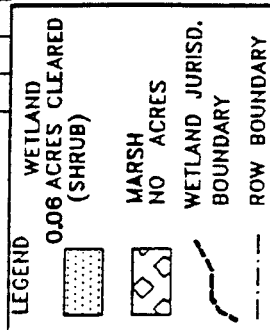
MARSH
WETLAND

SHRUB
WETLAND

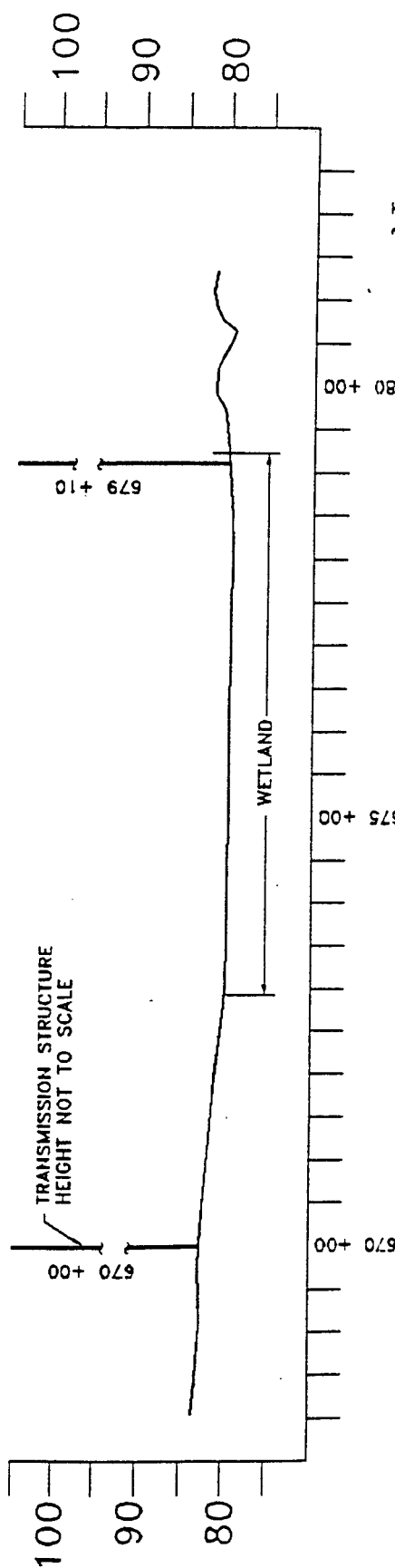
FT. GREEN - ONA RD N.W.

SEABOARD COAST RR

PROPOSED
ROW CENTERLINE



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



LEGEND for PROFILE

ROW C/L



SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED

FIGURE 11

FDER

JURISDICTION
FORESTED WETLAND

PROPOSED
ROW CENTERLINE

TRANSMISSION
STRUCTURE

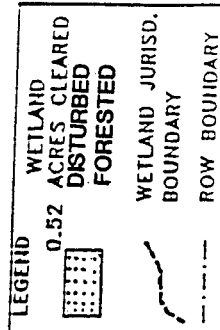
SEABOARD COAST LINE RR

805+00

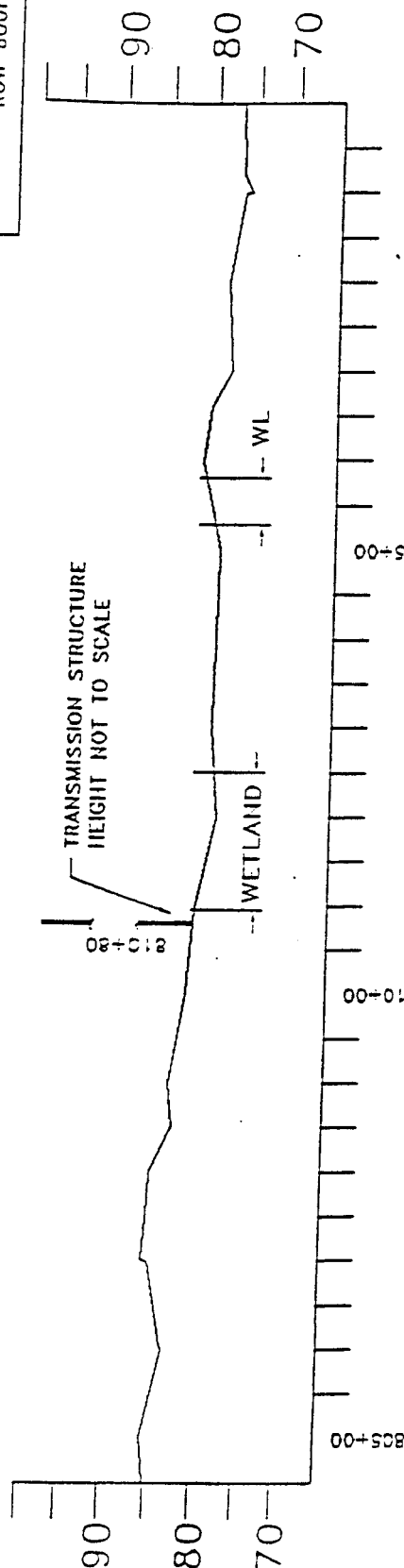
813+00

819+00

FORESTED
WETLAND



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



LEGEND for PROFILE

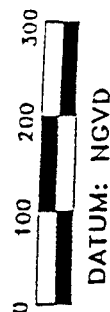
ROW C/L

WETLAND "LL,MM"
PLAN/PROFILE

SLW ± 74
NLW ± 75
SHW ± 76

SCALE: 1"=200'

Harriet L. Borden



SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED



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1-29-93

FIGURE 16,17

FDER/SWFWMR
JURISDICTION

DISTURBED FORESTED WETLAND

TRANSMISSION
STRUCTURE

SEABOARD COAST LINE RR

PROPOSED
ROW CENTERLINE

DISTURBED FORESTED
WETLAND

820 ± 00

820 ± 00

820 ± 00

LEGEND
WETLAND
229 ACRES CLEARED
(DISTURBED FORESTED)

NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS

WETLAND JURISD.
BOUNDARY
ROW BOUNDARY

TRANSMISSION STRUCTURE
HEIGHT NOT TO SCALE

WETLAND

LEGEND for PROFILE

— ROW C/L



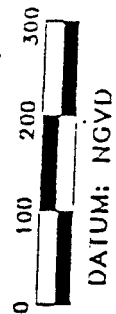
SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED

WETLAND "NN" PLAN/PROFILE

SCALE: 1" = 200'

SIW ± 76
NWL ± 75
SLW ± 74

N

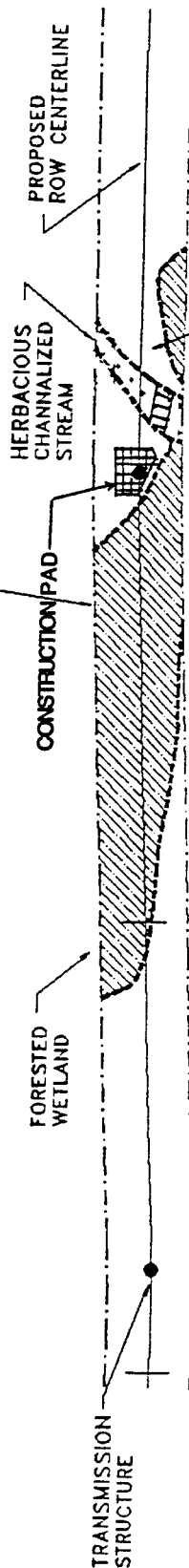


1-29-93

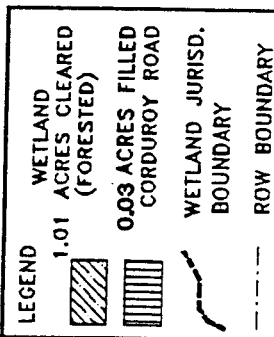
FIGURE 18

FEB 04 1993

FDER/SWFWMD
JURISDICTION
FORESTED WETLAND



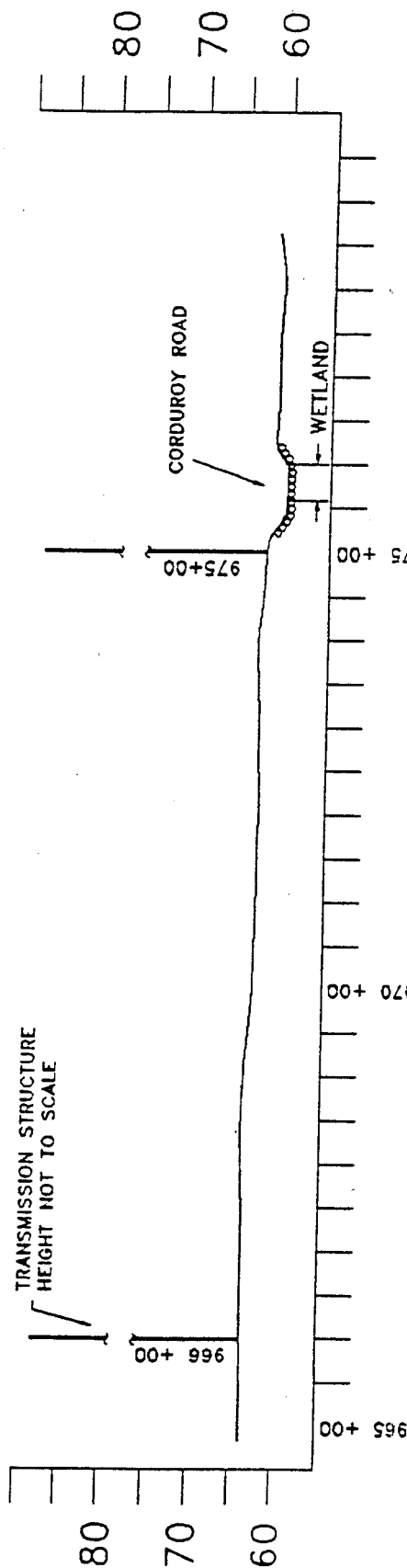
SEABOARD COAST LINE RR



NOTE: EDGE OF CORDUROY ROAD IN WETLAND TO BE STAKED WITH HAY BALES OR A SILT SCREEN DEPENDENT ON SITE CONDITIONS AT TIME OF CONSTRUCTION

NOTE: SURVEY INFORMATION DETERMINED BY AERIAL PHOTOMETRIC METHODS

TRANSMISSION STRUCTURE HEIGHT NOT TO SCALE



LEGEND for PROFILE

CORDUROY ROAD

ROW C/L

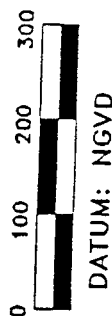
WETLAND "QQ"

PLAN/PROFILE

SHW ± 61
NWL ± 60
SLW ± 59

SCALE: 1"=200'

SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED



Amelia L. Parker

1-30-93

FIGURE 21

FDER/SWFMD
JURISDICTION
DISTURBED SHRUB WETLAND

STATE ROAD 661 S.W.

PROPOSED
ROW CENTERLINE

SEABOARD COAST LINE RR

CONSTRUCTION PAD

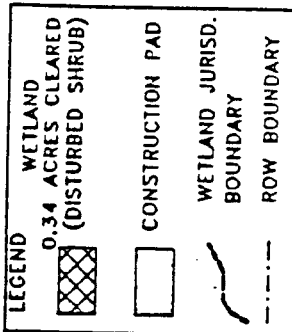
DISTURBED SHRUB
WETLAND

TRANSMISSION
STRUCTURE

1315+00

1320+00

1325+00



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS

TRANSMISSION STRUCTURE
HEIGHT NOT TO SCALE

FINAL GRADE ELEV. 61.0'

WETLAND

1315+00

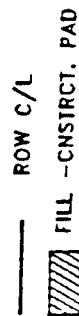
1320+00

1325+00

90
80
70

90
80
70

LEGEND for PROFILE

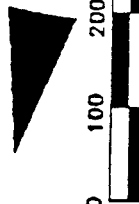


WETLAND "EEE" PLAN/PROFILE

SCALE: 1"=200'

SHW ± 60
NWL ± 59
SLW ± 58

N



DATUM: NGVD

Ernest L. Borden

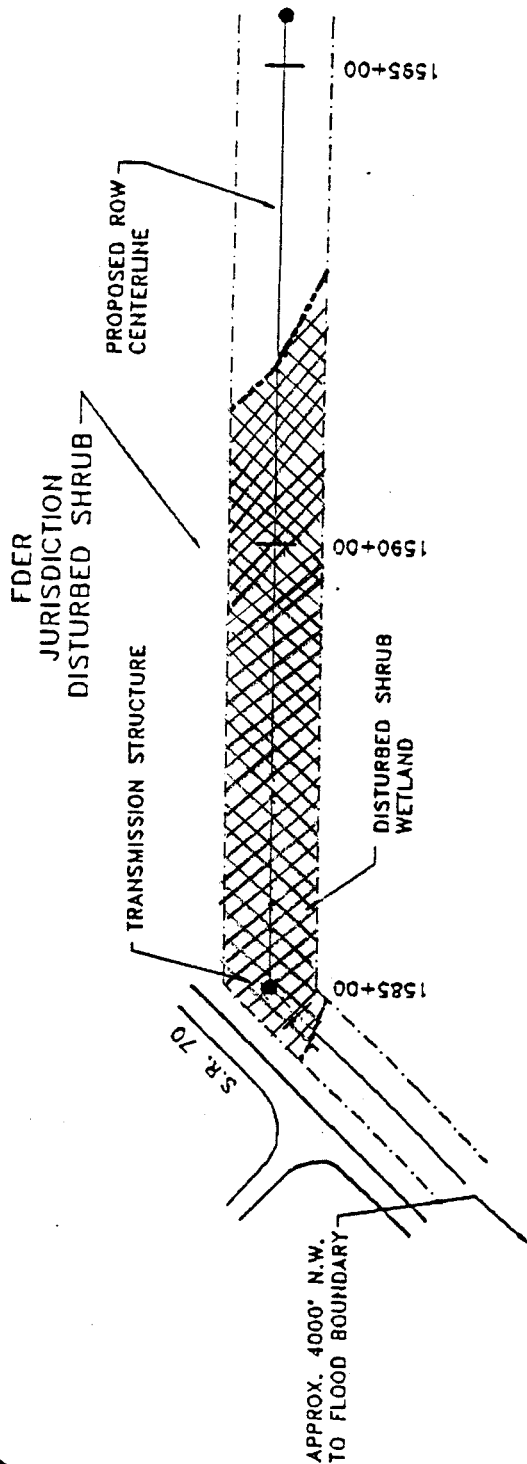
1-30-93

FIGURE 32

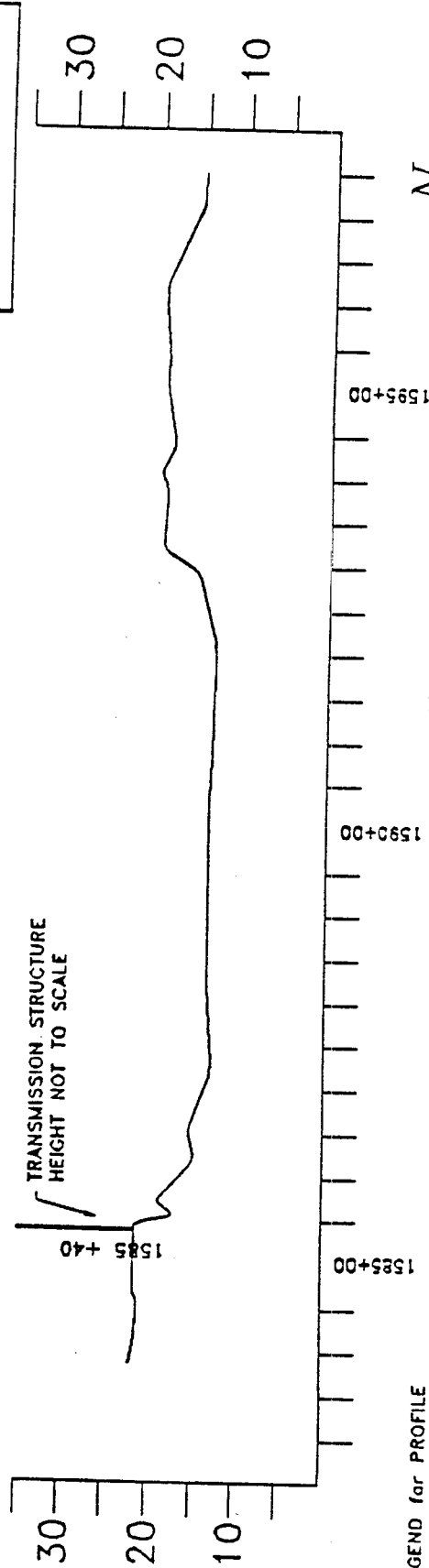
SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED



FEB 04 1993



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



LEGEND for PROFILE

— ROW C/L



SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED

WETLAND "KKK" PLAN/PROFILE

SCALE: 1"=200'

Matthew H. [Signature]

1-30-93

FDER/SWFWMD
JURISDICTION
FORESTED WETLAND

LEGEND	
	WETLAND 0.39 ACRES CLEARED (FORESTED)
	0.02 ACRES CLEARED (DISTURBED SHRUB)
	WETLAND JURISD. BOUNDARY
	ROW BOUNDARY

PROPOSED ROW
CENTERLINE

DIST. SHRUB
WETLAND

TRANSMISSION
STRUCTURE

SEABOARD COAST LINE RR

NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS

FORESTED
WETLAND

TRANSMISSION STRUCTURE
HEIGHT NOT TO SCALE

WETLAND
R.R.

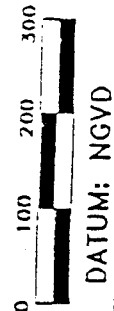
ROW C/L
FOR PROFILE

WETLAND "NNN" PLAN/PROFILE

SCALE: 1"=200'

SIW ±26
NWL ±25
SLW ±24

N



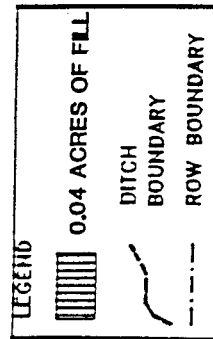
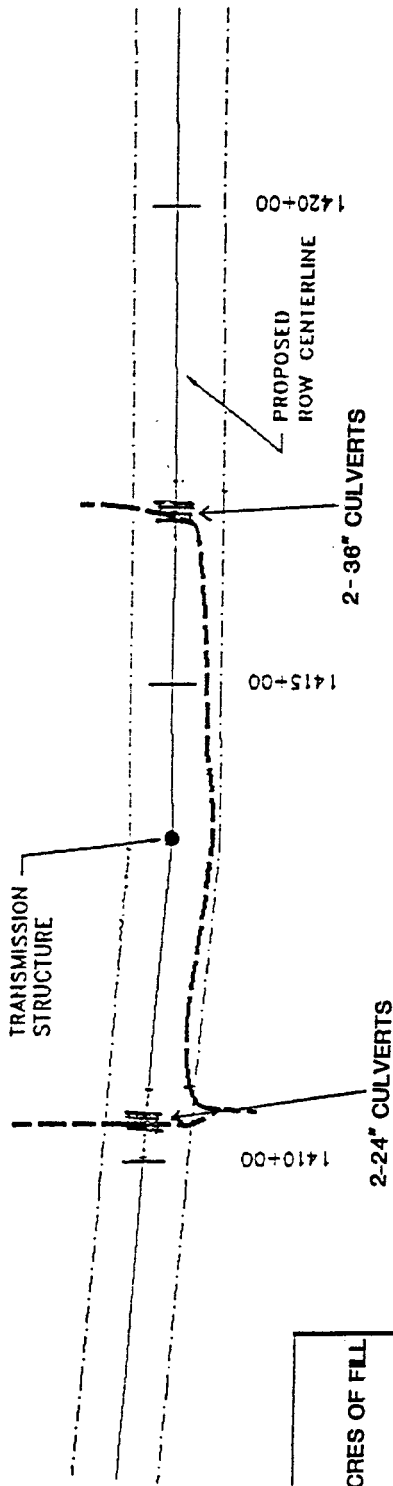
SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED

1-30-93

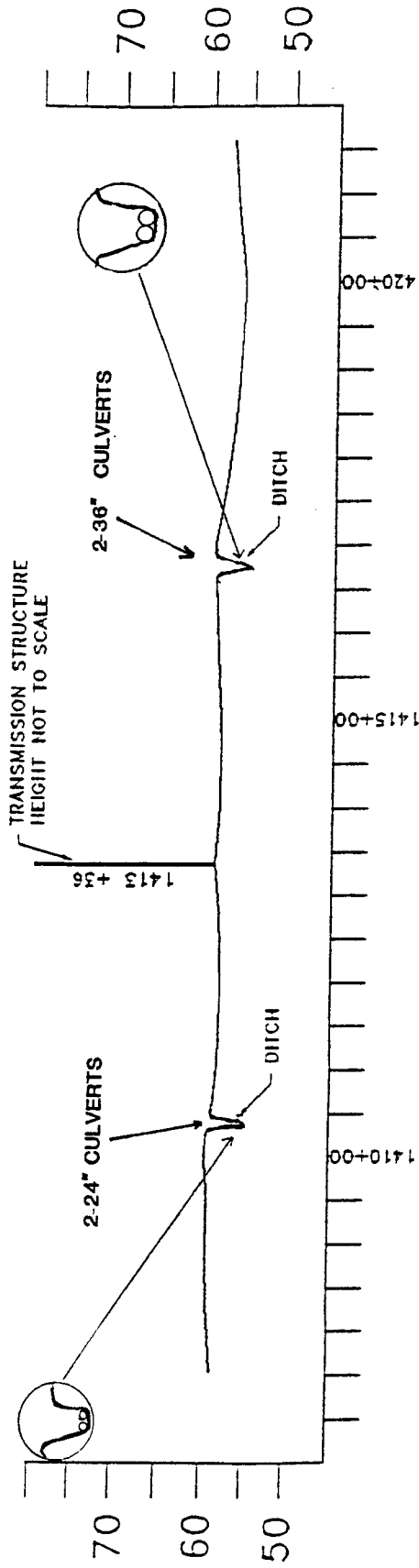
FIGURE 41

FEB 04 1993

FDER/SWFWMD
JURISDICTION
DITCH



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



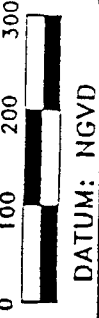
LEGEND for PROFILE

— ROW C/L

WETLAND "DITCH" PLAN/PROFILE

SHW ± 60
NWL ± 59
SLW ± 58

SCALE: 1" = 200'



SEMINOLE
ELECTRIC
COOPERATIVE
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SWFWMD
JURISDICTION
MARSH WETLAND

FDER JURD.
DITCH

MARSH
WETLAND
NO IMPACT

1865+00

REYNOLDS ST.

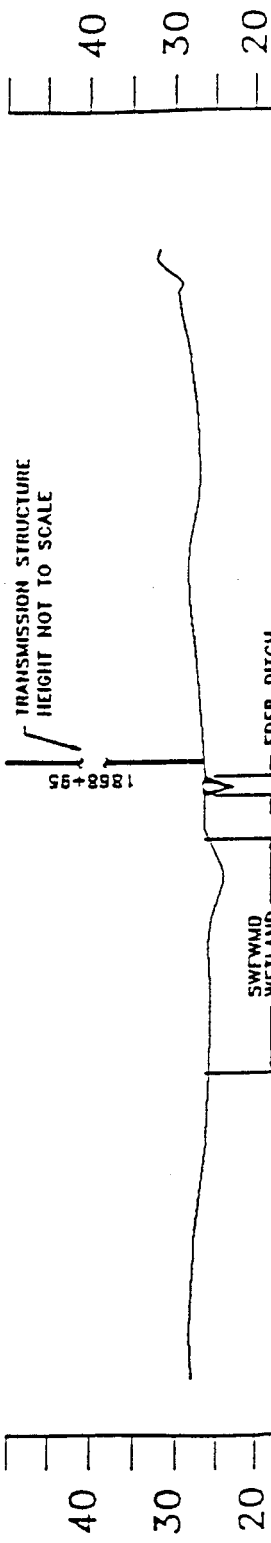
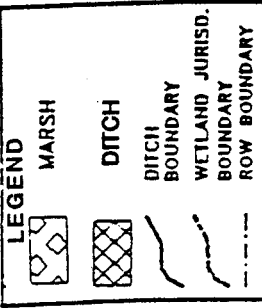
1872+00

PROPOSED
ROW CENTERLINE

1875+00

TRANSMISSION
STRUCTURE

NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



SHW ± 25
NWL ± 24
SLW ± 23

WETLAND "2D4/5" PLAN/PROFILE

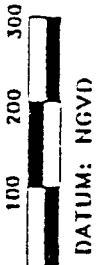
SCALE: 1"=200'

LEGEND for PROFILE

ROW C/L

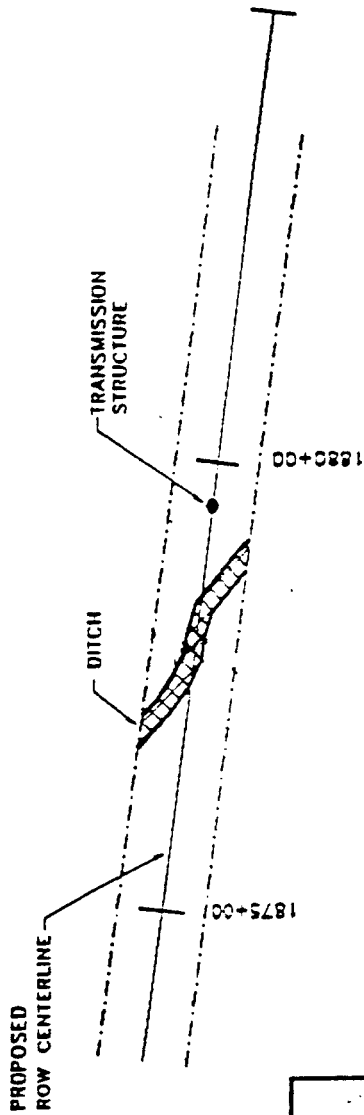


SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED

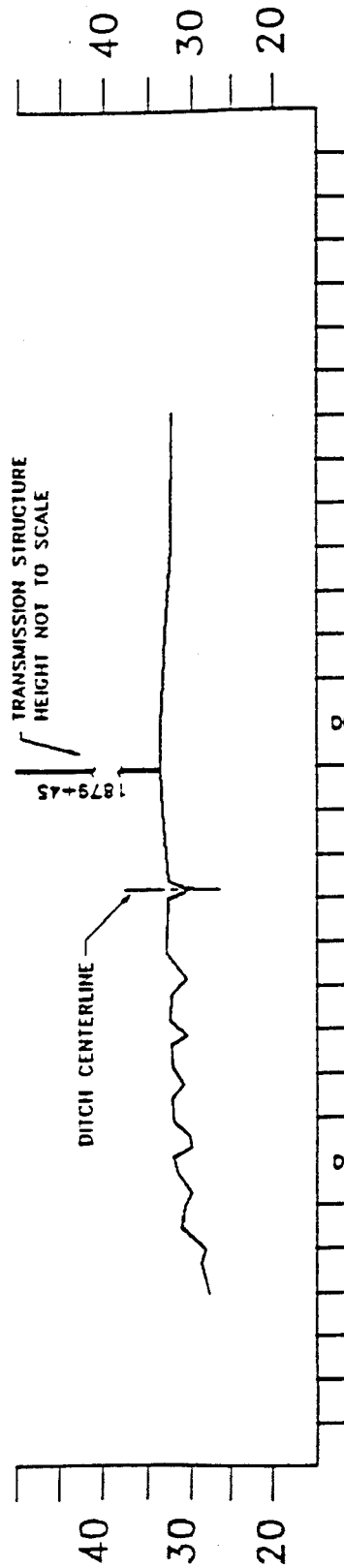
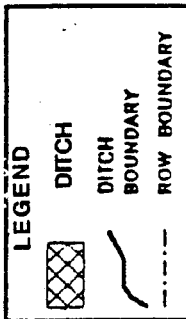


Donnell L. Baker

FDR JURISDICTION DITCH



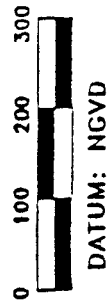
NOTE: SURVEY INFORMATION DETERMINED BY AERIAL PHOTOMETRIC METHODS



DITCH "2D6" PLAN/PROFILE

SCALE: 1"=200'

SHW ± 31
NWL ± 30
SLW ± 29



RECEIVED
MGT. RES. MGR.
FEB 04 1993

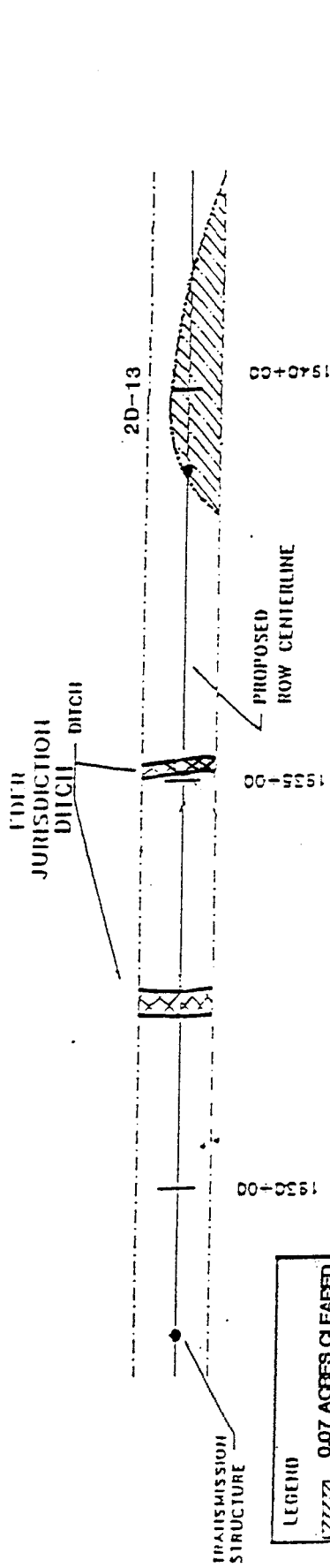
LEGEND for PROFILE

ROW C/L



1-31-93

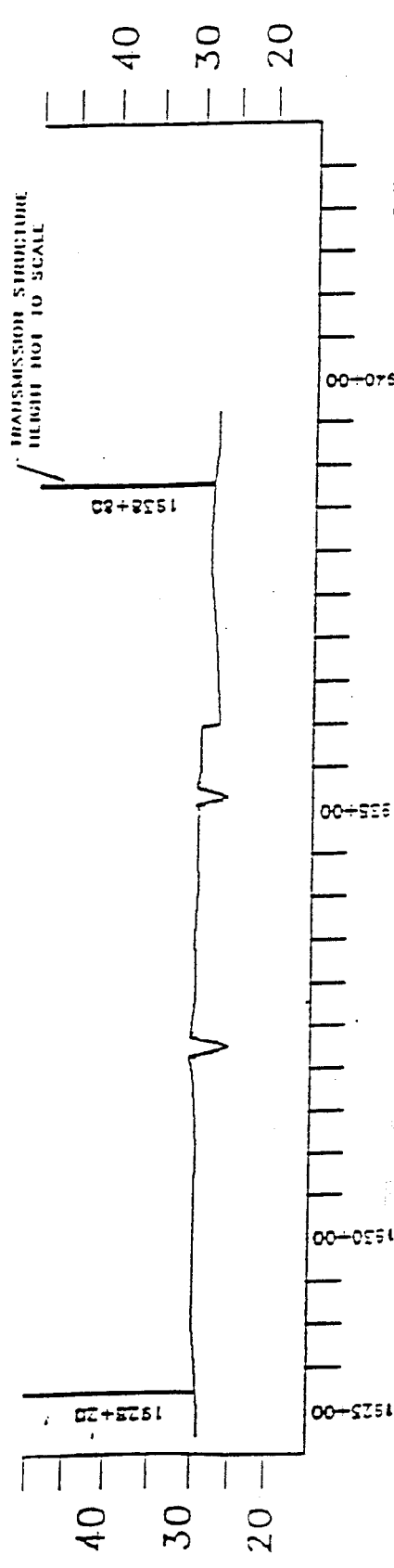
FIGURE 9



LEGEND

	0.07 ACRES CLEARED FORESTED WETLAND
	DITCH
	DITCH BOUNDARY
	ROW BOUNDARY

NOTE: SURVEY INFORMATION DETERMINED BY AERIAL PHOTOMETRIC METHODS



LEGEND for PROFILE
 — ROW C/L

DITCH "2D11, 12, 13" PLAN/PROFILE

SCALE: 1"=200'

SIW ± 28
 HWL ± 27
 SLW ± 26

DATUM: HIGVD

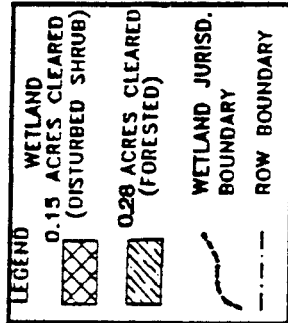
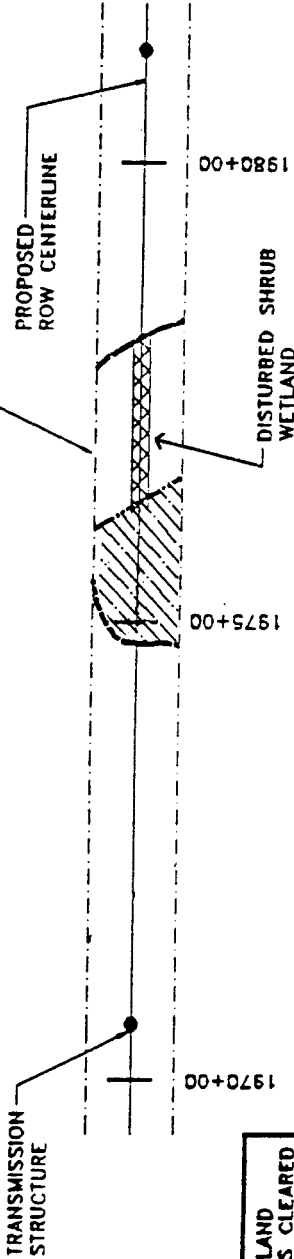


SEMINOLE ELECTRIC COOPERATIVE INCORPORATED

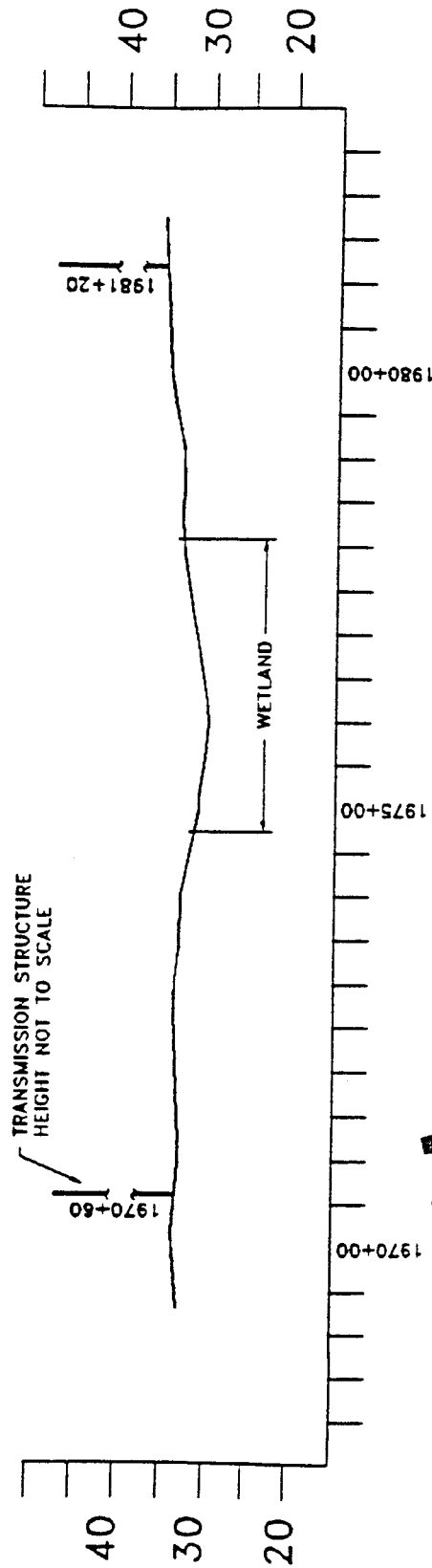
1-31-93

FIGURE 13/14

FDER/SWFWMD
JURISDICTION
DISTURBED SHRUB WETLAND



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



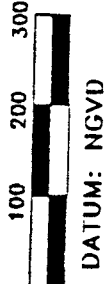
WETLAND "2D14" PLAN/PROFILE

LEGEND for PROFILE

— ROW C/L

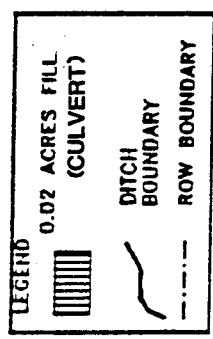
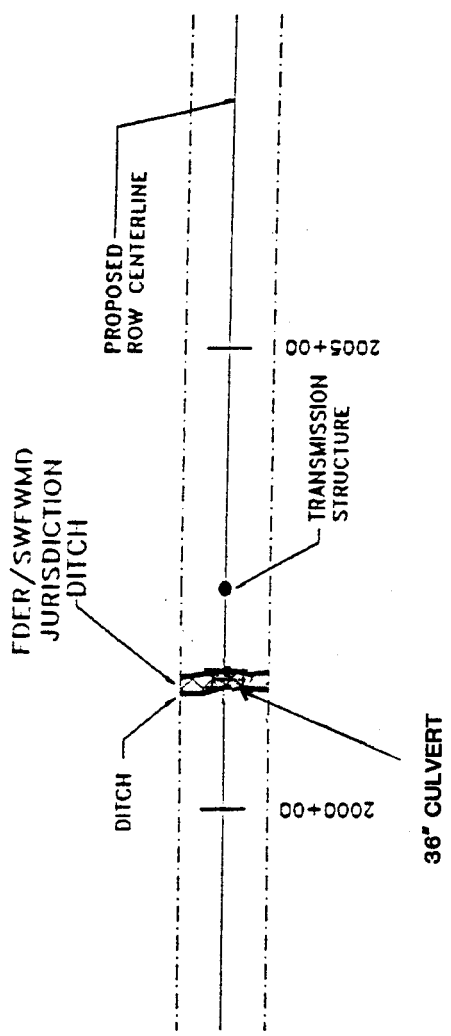


SCALE: 1"=200'

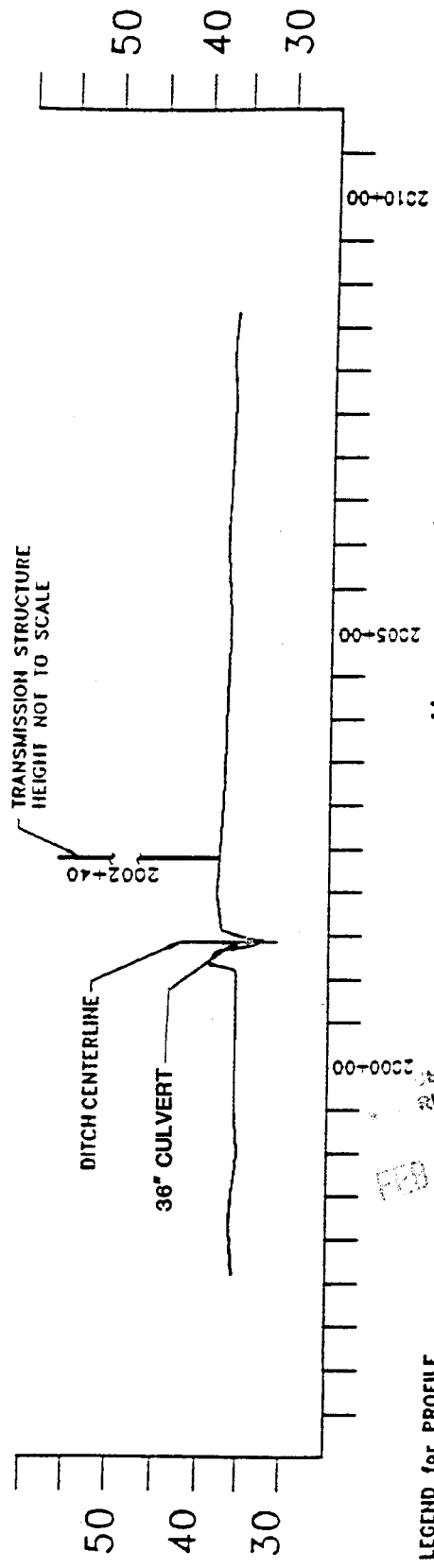


Annith L. Beck

1-31-93



NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



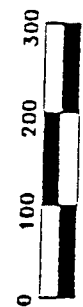
LEGEND for PROFILE

— ROW C/L

DITCH "2D15" PLAN/PROFILE

SCALE: 1"=200'

SHW ± 33
NWL ± 32
SLW ± 31



DATUM: NGVD

Anneth L. Decker

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INCORPORATED



1-31-93

FIGURE 16

FDER/SWFWMD
JURISDICTION
MARSH WETLAND

FDER JURISD.
DITCH

TRANSMISSION
STRUCTURE

MARSH WETLAND

2170+00

PROPOSED
ROW CENTERLINE
CONSTRUCTION PAD
WITH ACCESS ROAD

2165+00

18" CULVERT

36" CULVERT

NOTE: EDGE OF CORDUROY ROAD
AND CONSTRUCTION PAD IN WETLAND
TO BE STAKED WITH HAY BALES
OR SILT SCREEN DEPENDENT ON SITE CO-
NDITIONS AT TIME OF CONSTRUCTION

LEGEND

0.33 ACRES FILLED
CONSTRUCTION PAD
DITCH
BOUNDARY
WETLAND JURISD.
BOUNDARY
ROW BOUNDARY

NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS

TRANSMISSION STRUCTURE
HEIGHT NOT TO SCALE

18" CULVERT

FINAL GRADE ELEV. 43.0'

CONSTRUCTION PAD
WITH ACCESS ROAD

DITCH
CENTERLINE

2172+85

50

40

30

2170+00

2165+00

LEGEND for PROFILE

CORDUROY ROAD
ROW C/L
FILL (CNSTRCT PAD)

SHW ± 39
NWL ± 38
SLW ± 37



DATUM: NGVD

WETLAND "2D19/20"

PLAN/PROFILE

SCALE: 1"=200'

Arnell L. Boudin

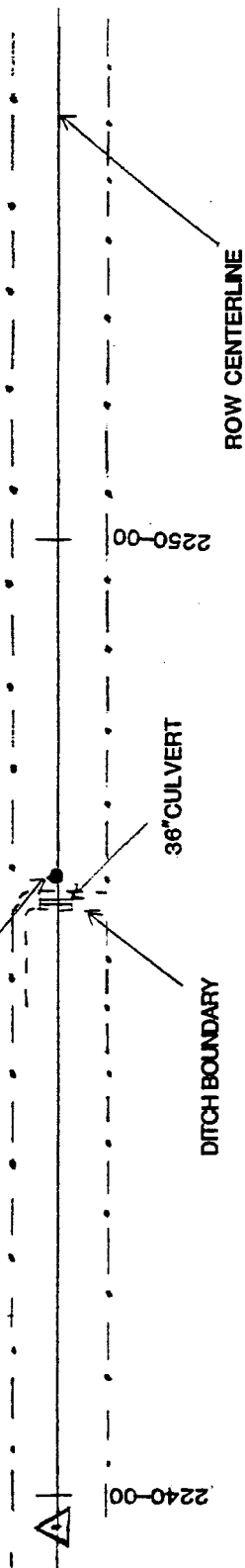
SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED



1-31-93

FIGURE 20/21

TRANSMISSION STRUCTURE



DITCH BOUNDARY

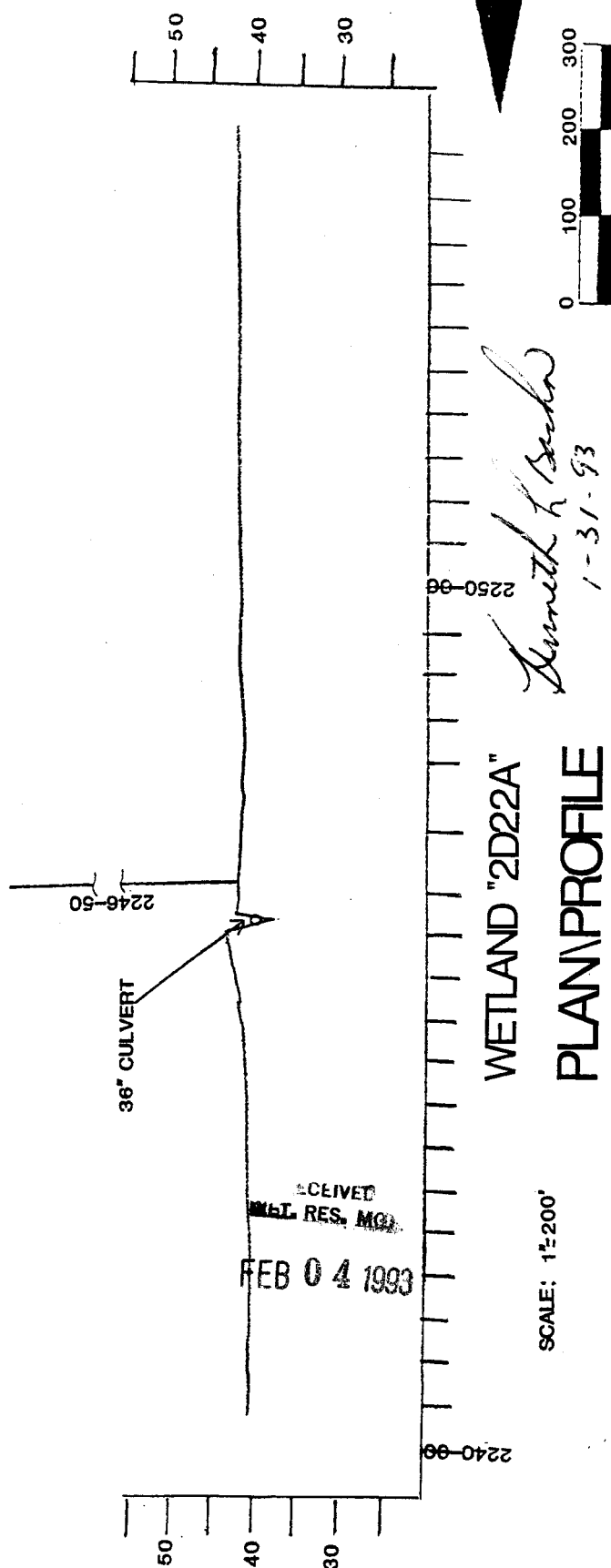
36" CULVERT

ROW CENTERLINE

LEGEND

- 0.02 ACRES OF FILL (CULVERT)
- DITCH / WETLAND BOUNDARY
- ROW BOUNDARY

NOTE: TRANSMISSION STRUCTURE NOT TO SCALE

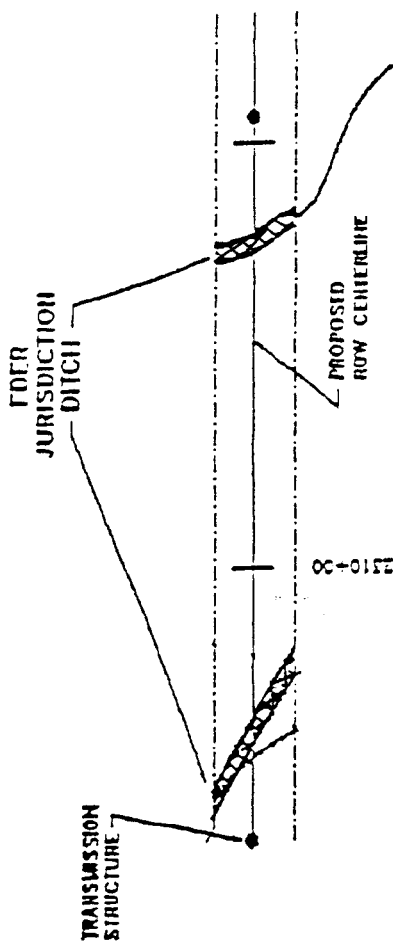
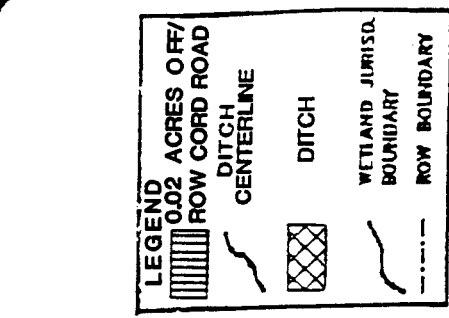


WETLAND "2D22A"

PLAN PROFILE

SCALE: 1"=200'

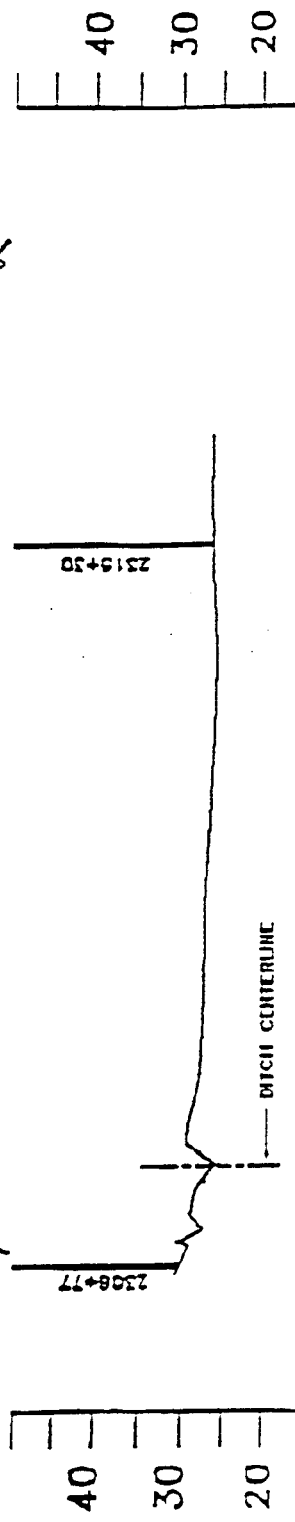




NOTE: SURVEY INFORMATION DETERMINED BY ATRIAL PHOTOMETRIC METHODS

CORNUROY ROAD

TRANSMISSION STRUCTURE HEIGHT NOT TO SCALE



SIW ± 27
 NWL ± 26
 SLW ± 25

DITCH "2D23"
 PLAN/PROFILE
 SCALE: 1"=200'

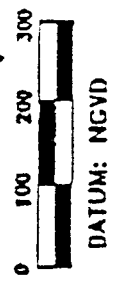
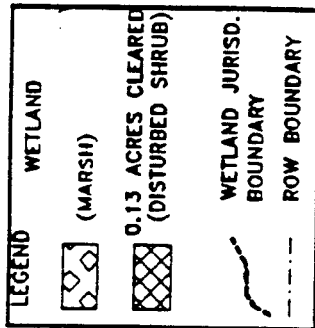
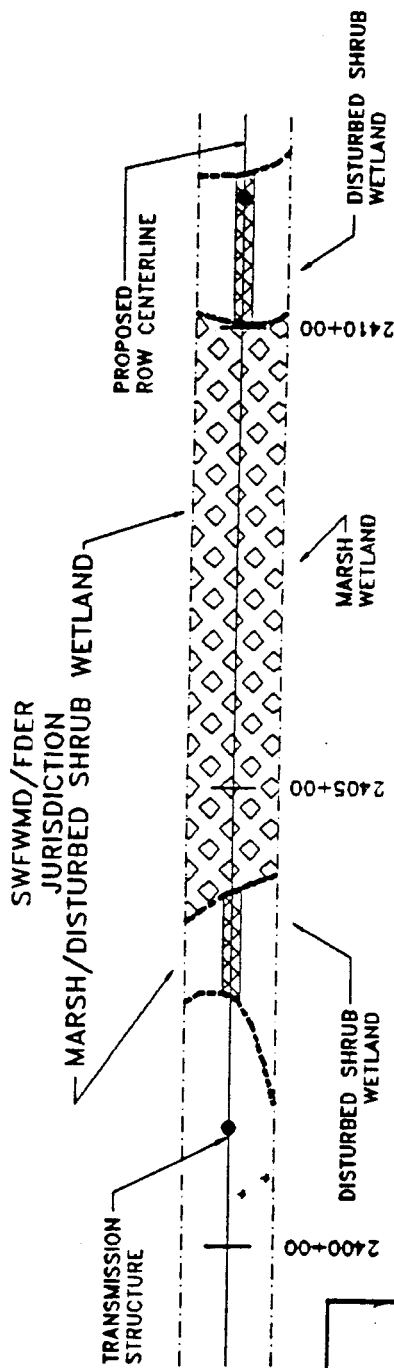


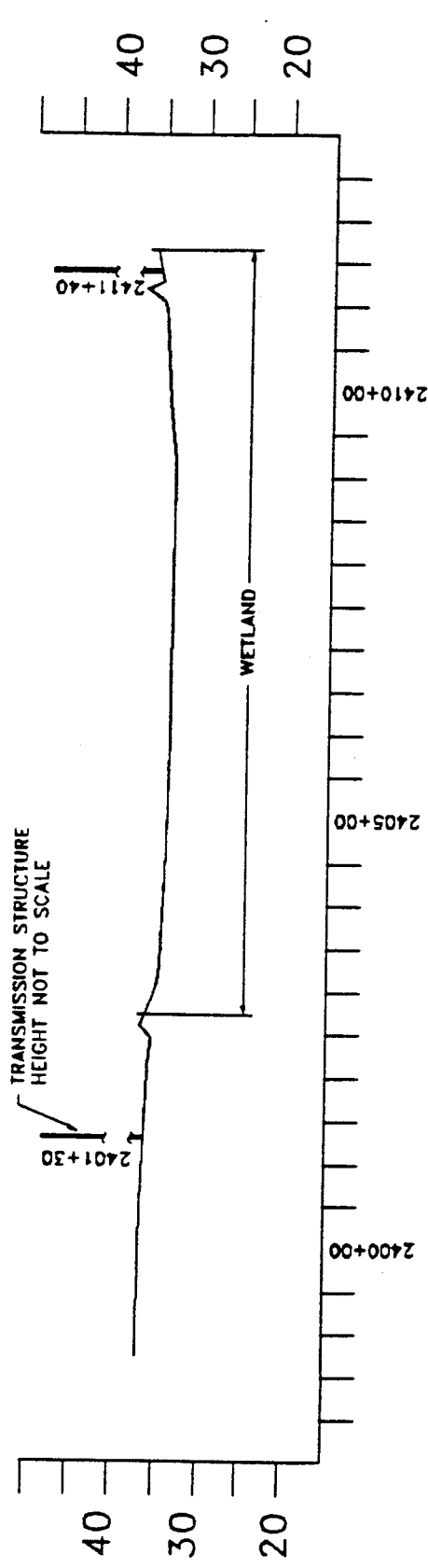
FIGURE 23

Annex 1
 8-1-93

FEB 04 1993
 LRES, MA



NOTE: SURVEY INFORMATION DETERMINED BY AERIAL PHOTOMETRIC METHODS



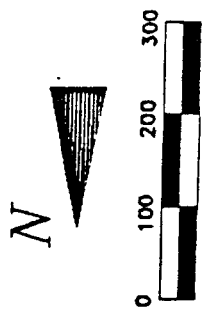
LEGEND for PROFILE
— ROW C/L

WETLAND "2C26"

PLAN/PROFILE

SCALE: 1"=200'

RECEIVED
FEB 14 1993

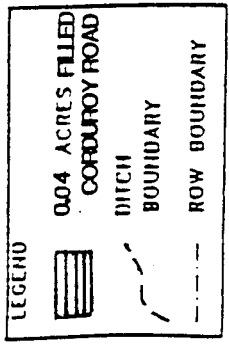
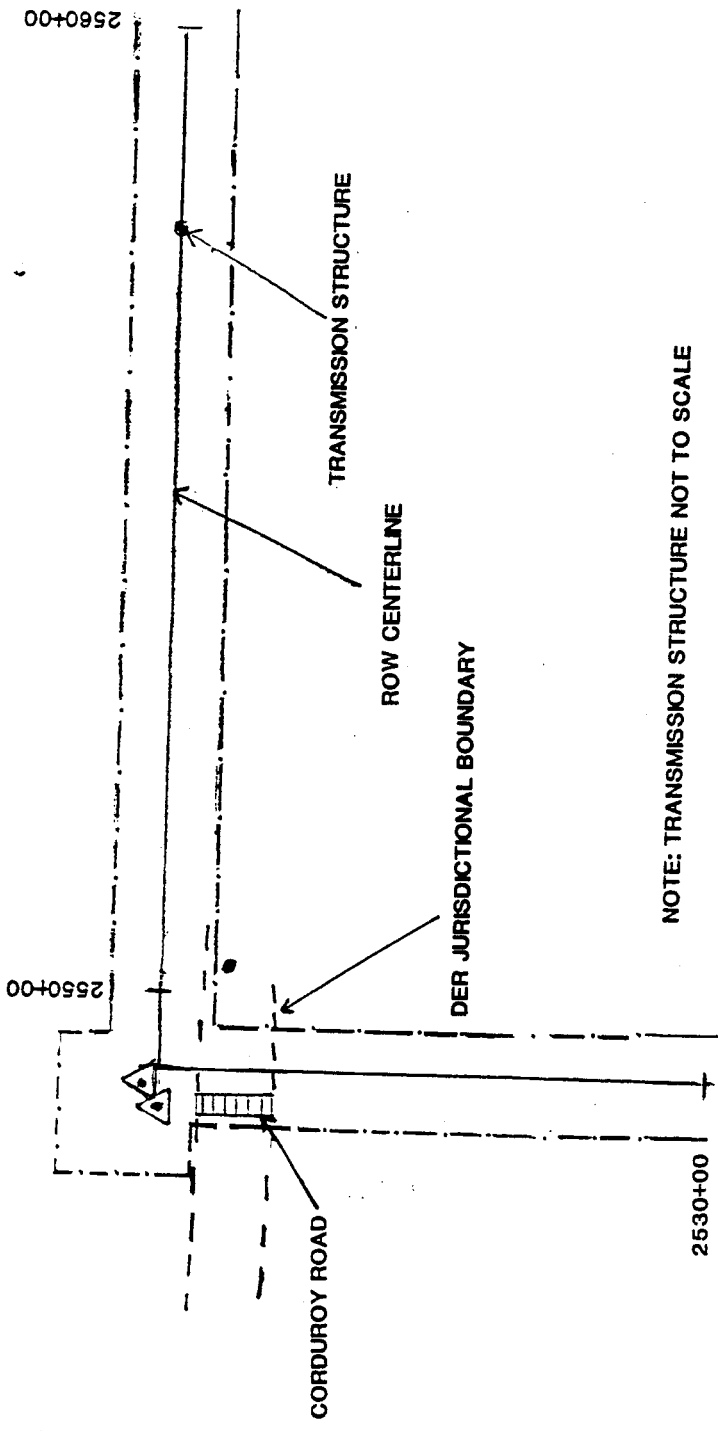


DATUM: NGVD

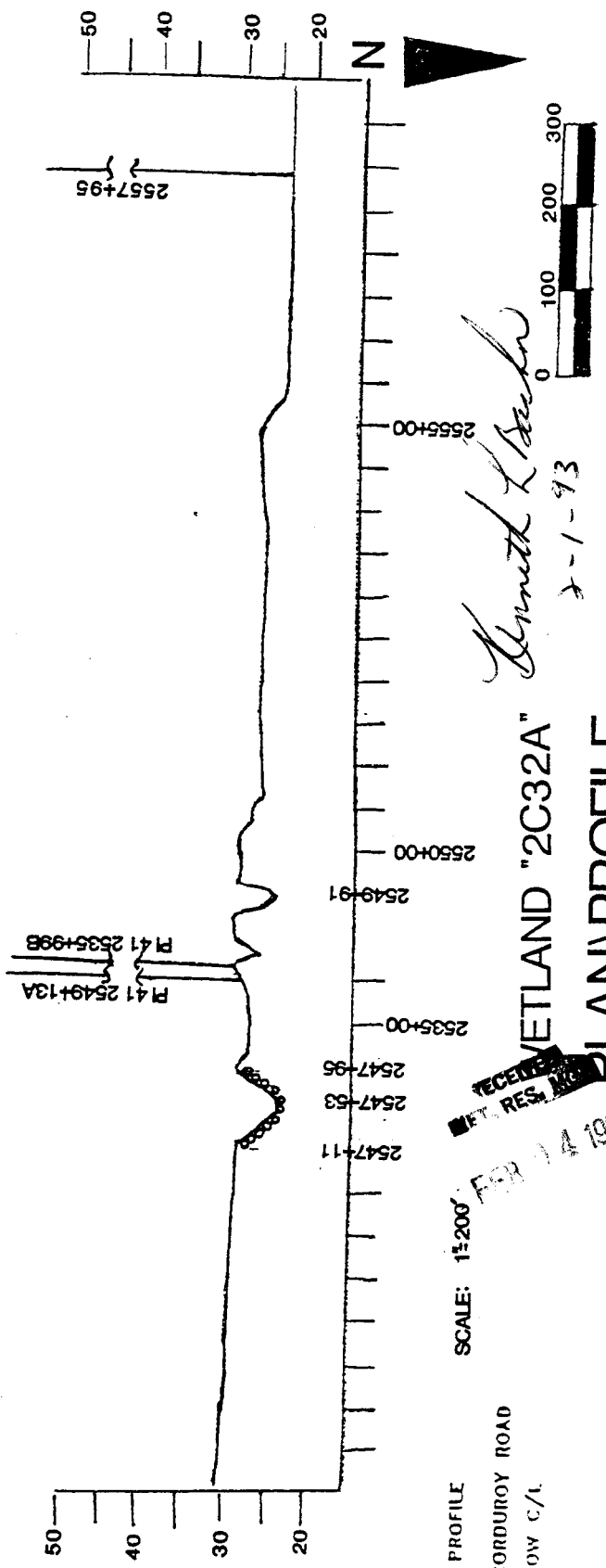
Handwritten signature



2-1-93



NOTE: TRANSMISSION STRUCTURE NOT TO SCALE



Kenneth L. Harkin
2-1-93

WETLAND "2C32A"
PLAN/PROFILE
SCALE: 1"=200'
FEB 14 1993
REC'D
WET. RES. DIV.

LEGEND for PROFILE
CORDUROY ROAD
ROW C/L

FDER/SWFWMD
JURISDICTION
TRIBUTARY TO SHELL CREEK

PROPOSED
ROW CENTERLINE

TRANSMISSION
STRUCTURE

2655+00

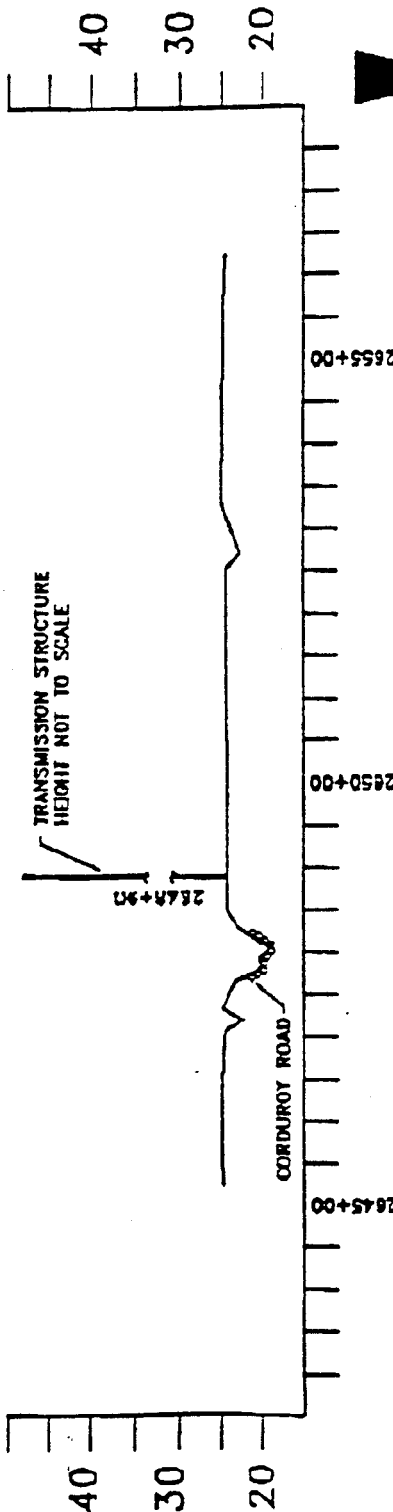
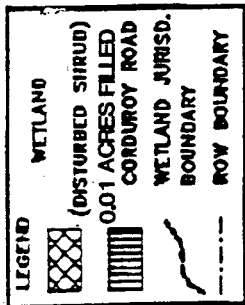
2650+00

2645+00

DISTURBED SHRUB
WETLAND

NOTE: EDGE OF CORDUROY ROAD IN
WETLAND TO BE STAKED WITH HAY BALES
OR SILT SCREEN DEPENDENT ON SITE CO-
ORDINATES AT TIME OF CONSTRUCTION

NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



WETLAND "2C32B" PLAN/PROFILE

SCALE: 1"=200'



DATUM: NGVD

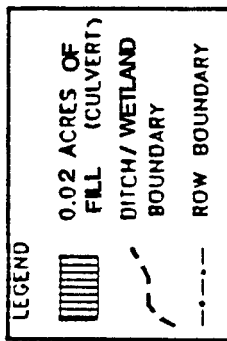
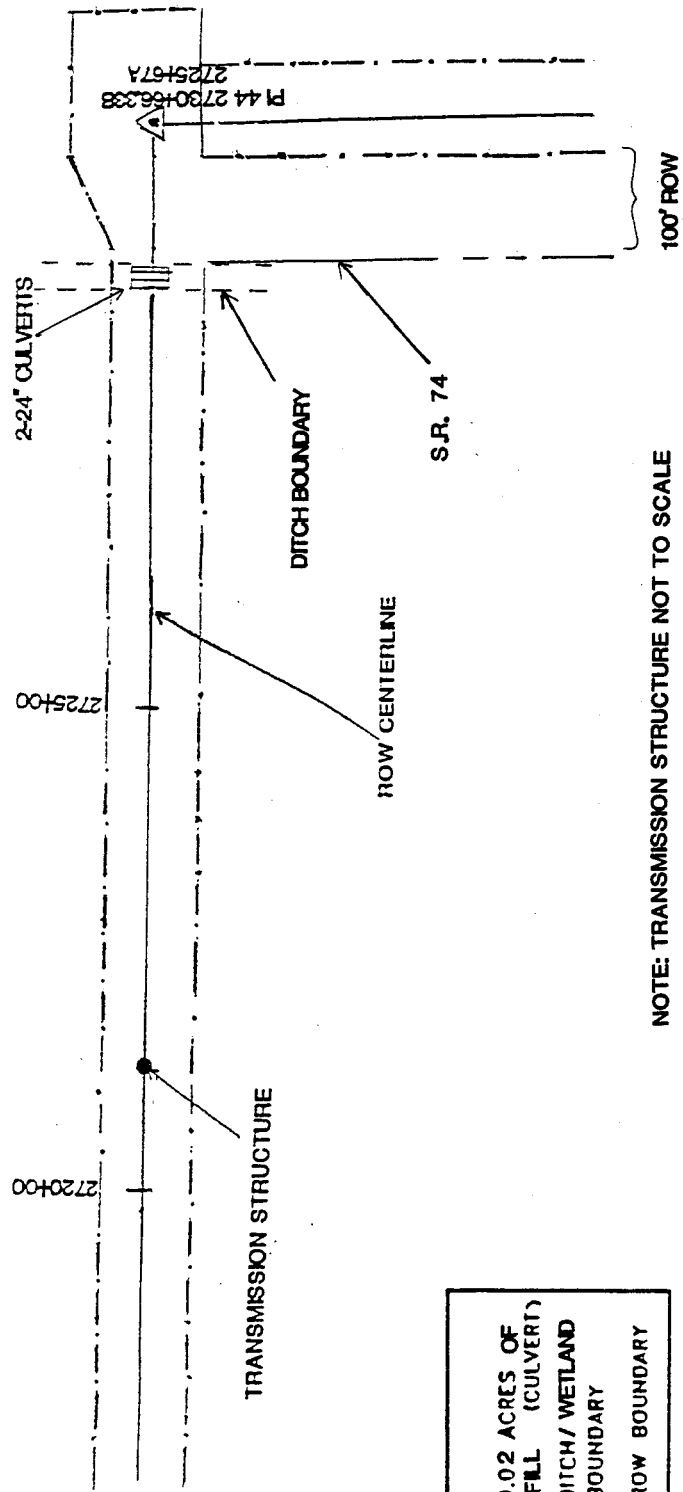
SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED
FEB 04 1993

FIGURE 32

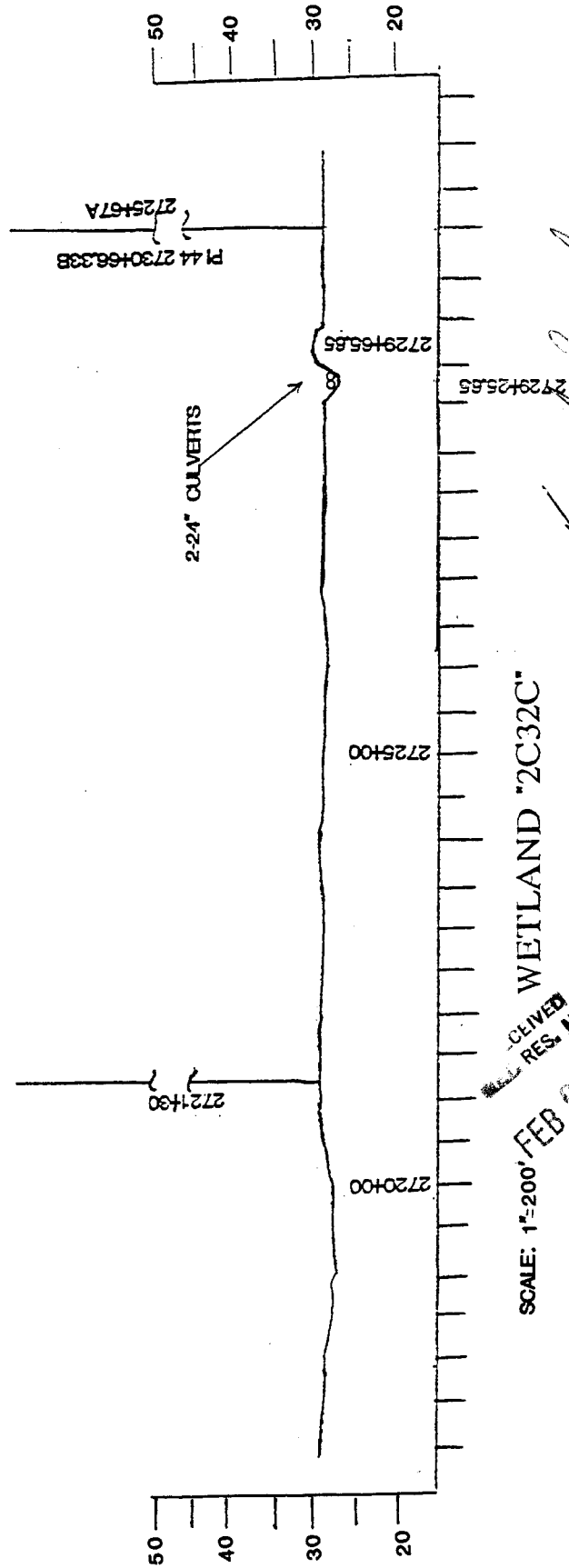
8-1-93

Terrence H. Baker





NOTE: TRANSMISSION STRUCTURE NOT TO SCALE



WETLAND "2C32C"

PLAN PROFILE

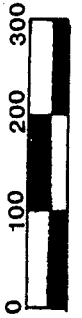
SCALE: 1"=200'

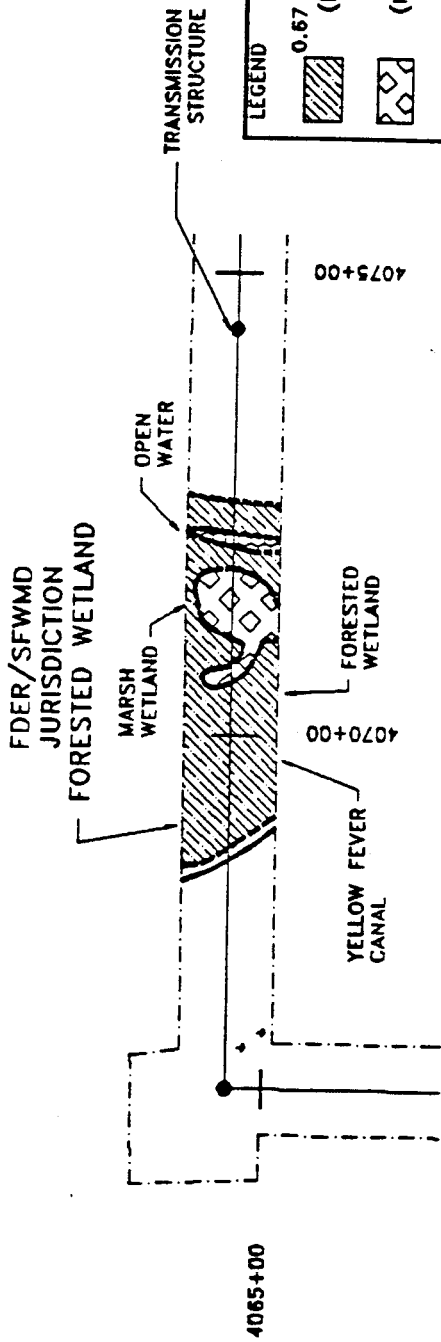
RECEIVED
RES. MGR.

FEB 04 1993

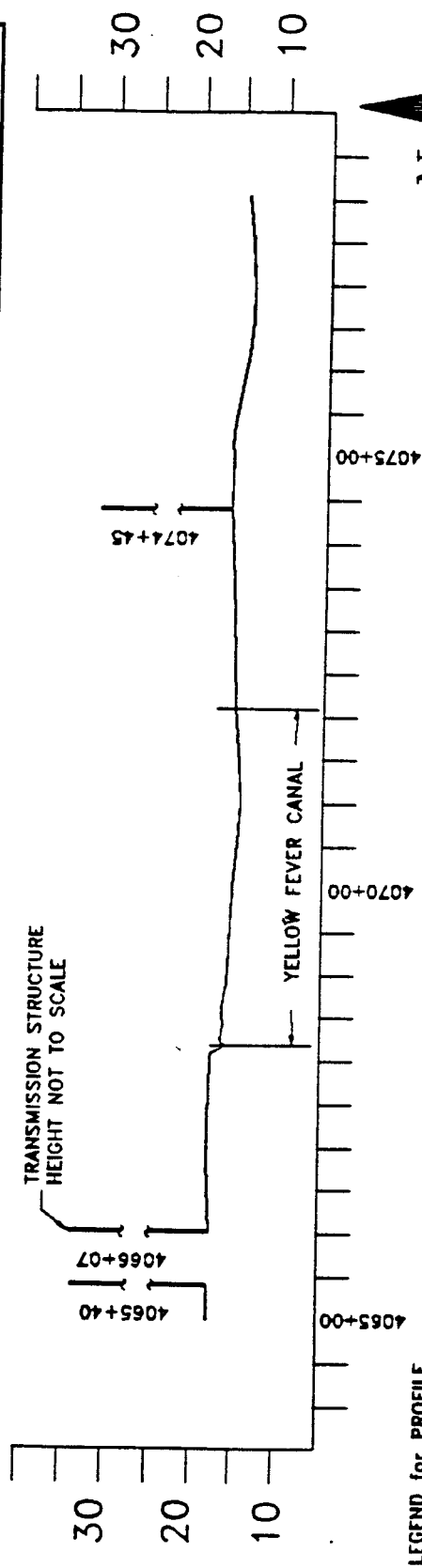
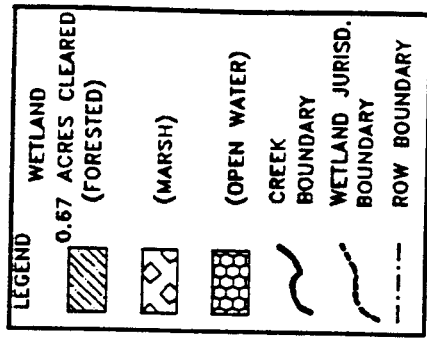
Herbert L. Bach

2-1-93





NOTE: SURVEY INFORMATION
DETERMINED BY AERIAL
PHOTOMETRIC METHODS



LEGEND for PROFILE

ROW C/L

RECEIVED
MET. RES. DIV.
FEB 04 1993

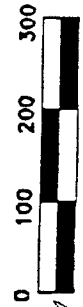
WETLAND "2L80" PLAN/PROFILE

SCALE: 1"=200'

YELLOW FEVER CANAL

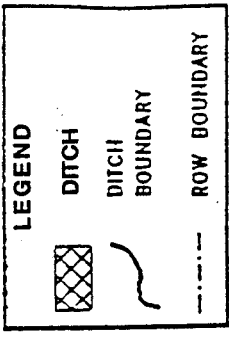
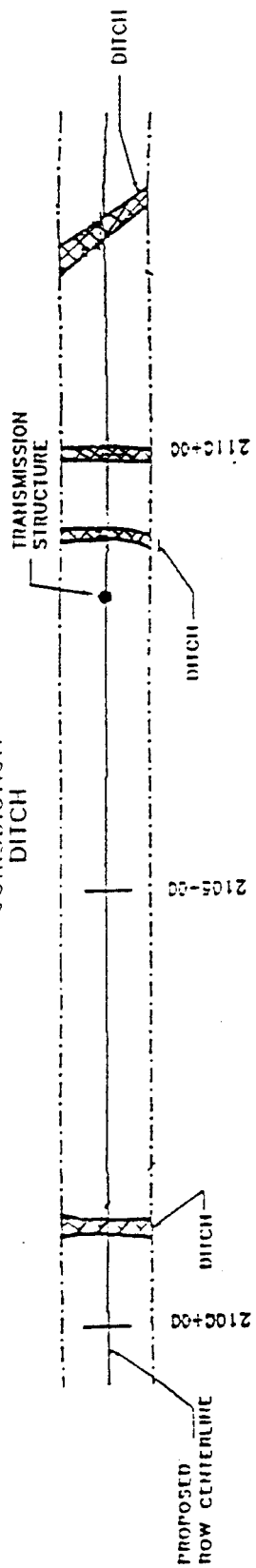
Kenneth L. Becker

DATUM: NGVD



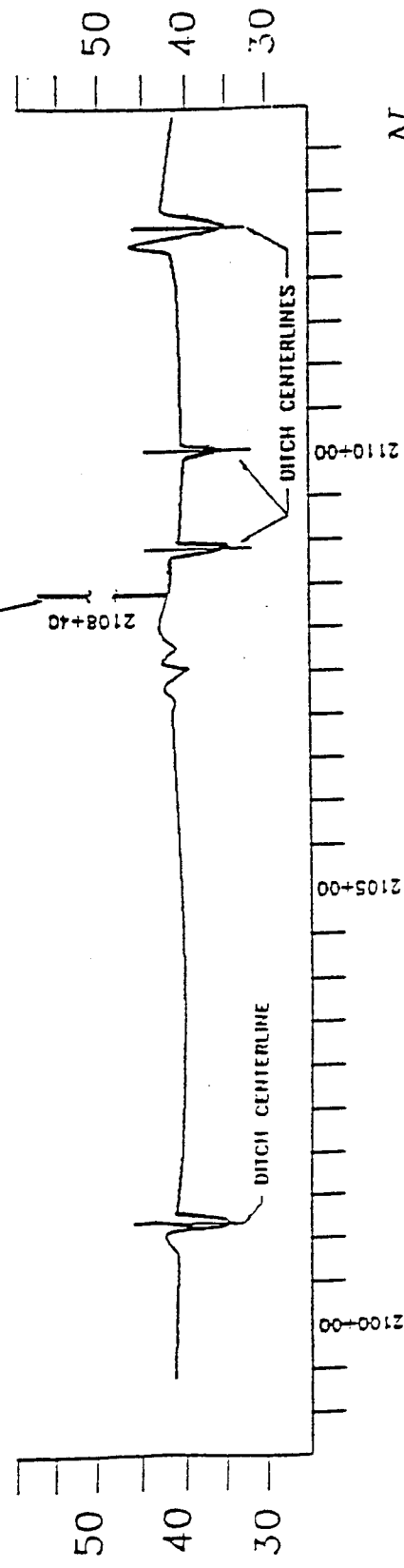
2-1-93

FDR JURISDICTION DITCH



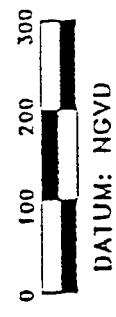
NOTE: SURVEY INFORMATION DETERMINED BY AERIAL PHOTOMETRIC METHODS

TRANSMISSION STRUCTURE HEIGHT NOT TO SCALE



LEGEND for PROFILE

— ROW C/L



DITCH "2D17/18" PLAN/PROFILE

SCALE: 1"=200'

RECEIVED
ELEC. RES. MGMT.
FEB 04 1993

SEMINOLE
ELECTRIC
COOPERATIVE
INCORPORATED



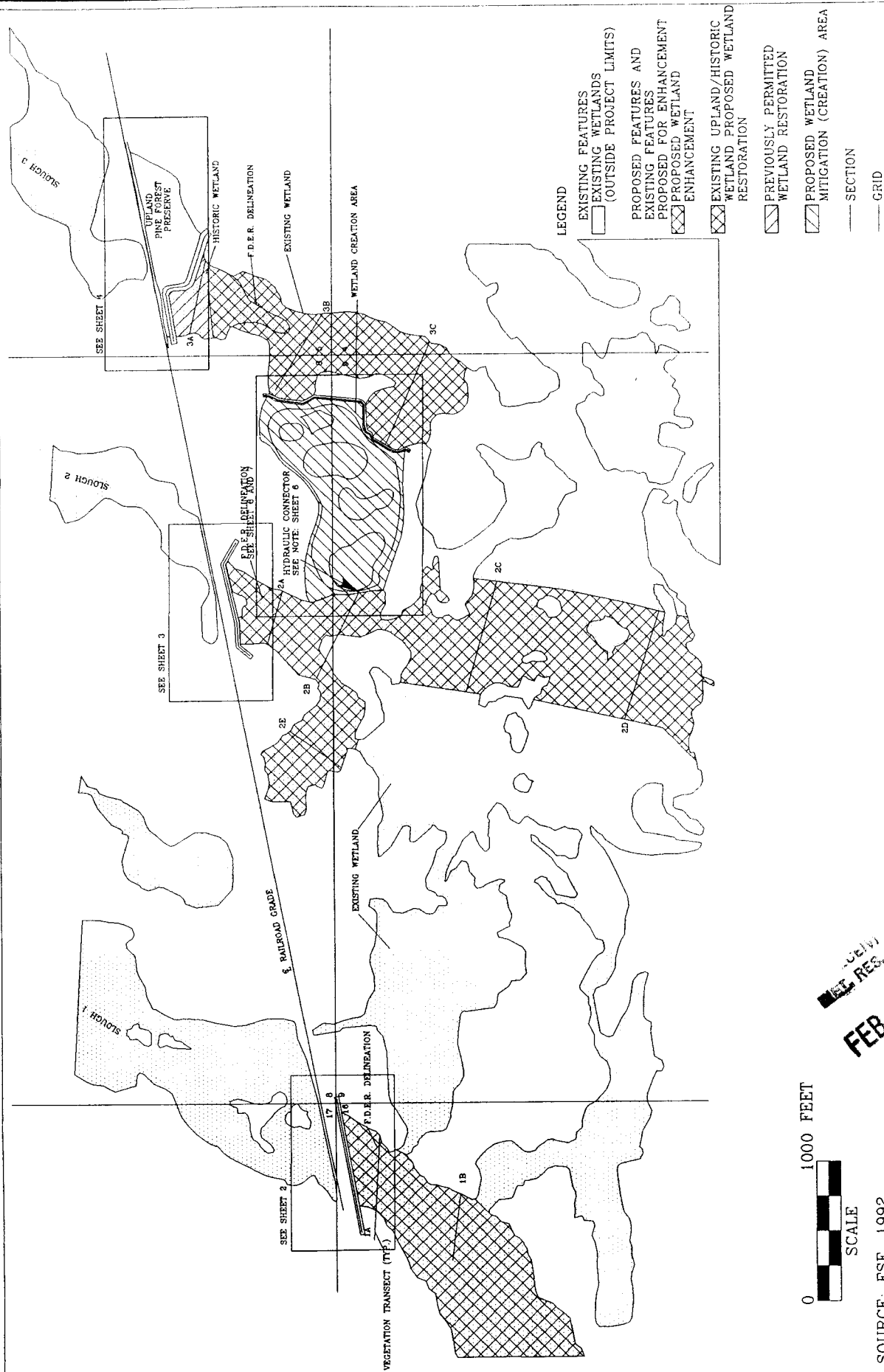


FIGURE 1
KEY PLAN AND NOTES

ENVIRONMENTAL SCIENCE
& ENGINEERING, INC.

WETLAND RESTORATION
AND CREATION FOR
SEMINOLE ELECTRIC
COOPERATIVE

WET. RES. DIV.
FEB 22 1992

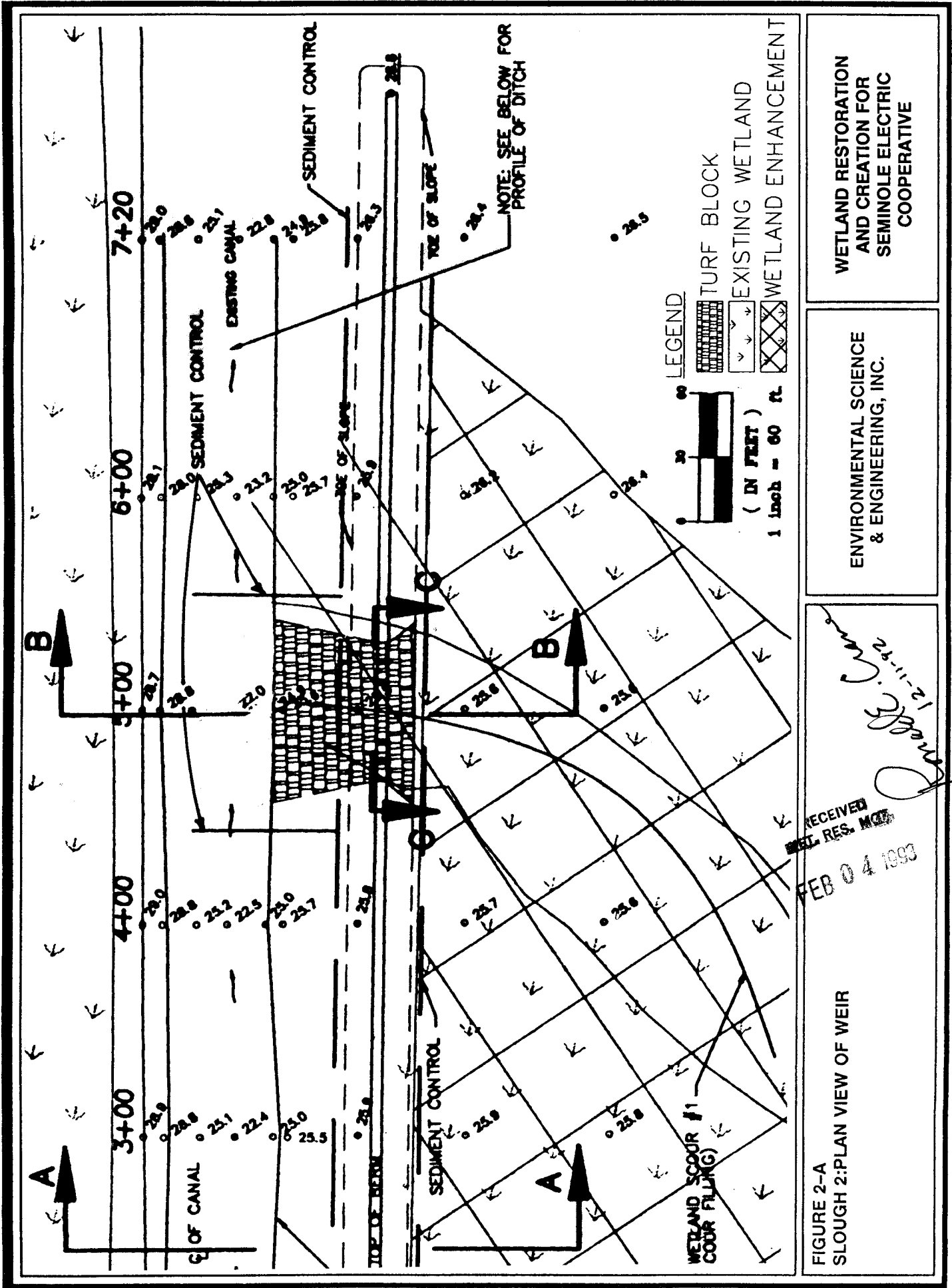
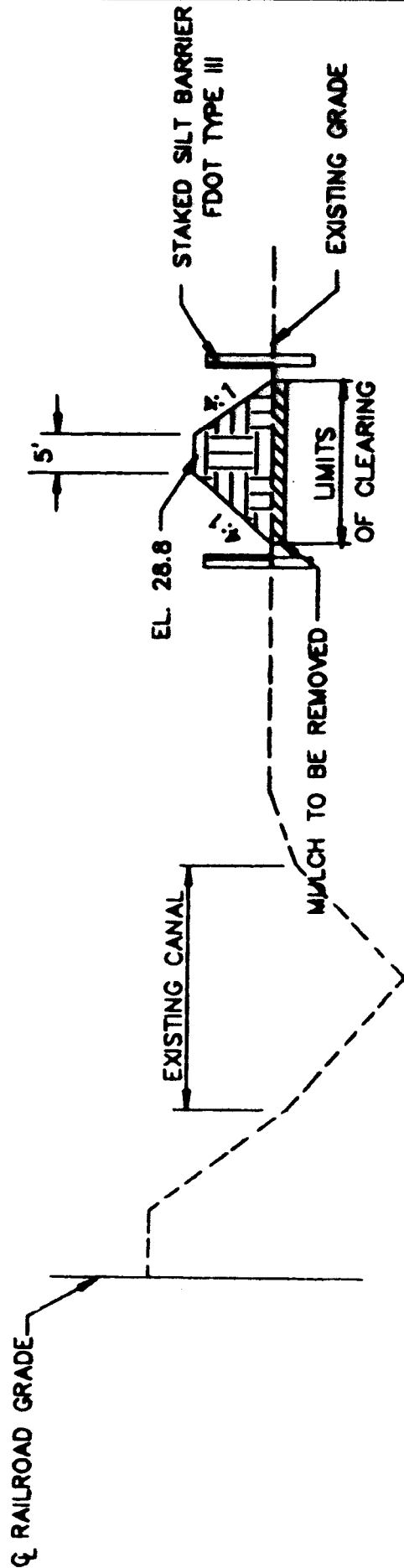


FIGURE 2-A
SLOUGH 2: PLAN VIEW OF WEIR

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SECTION A-A N.T.S.

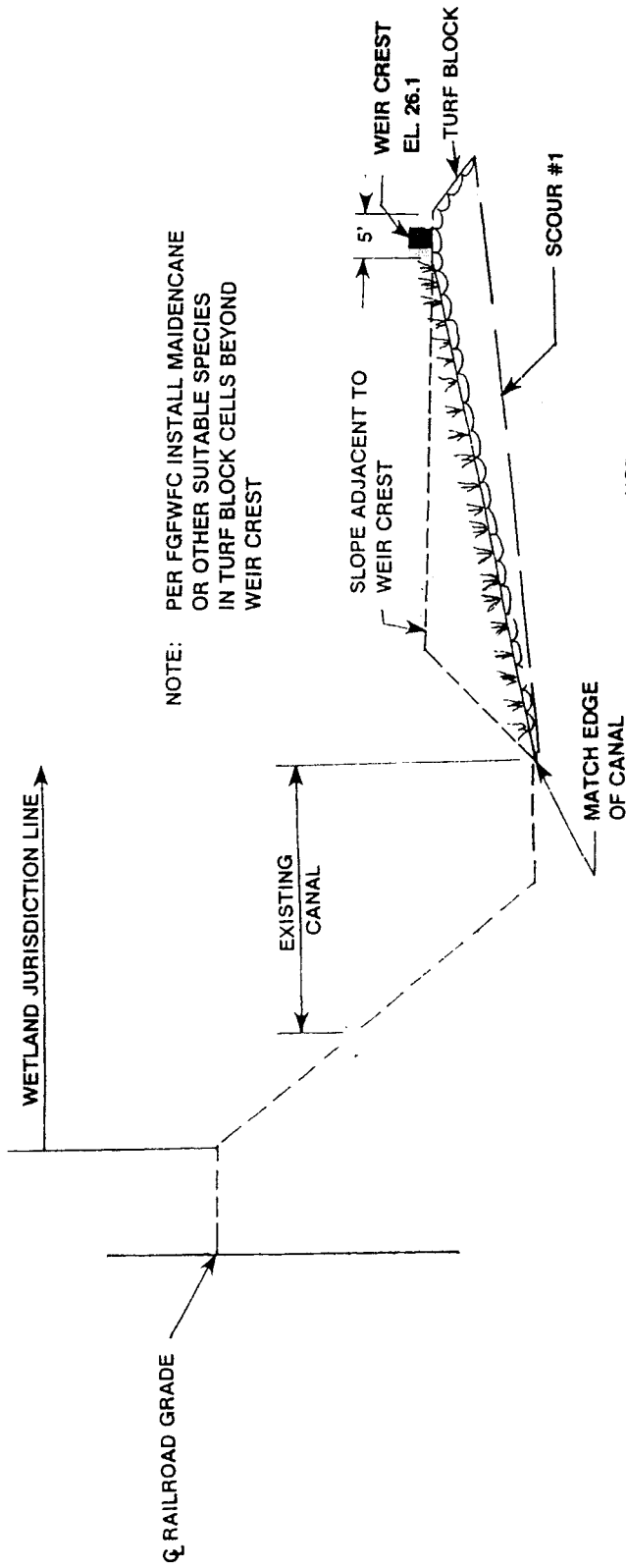
FIGURE 2-B
SLOUGH 1: CROSS SECTION
THROUGH BERM

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SECTION B-B

N.T.S.

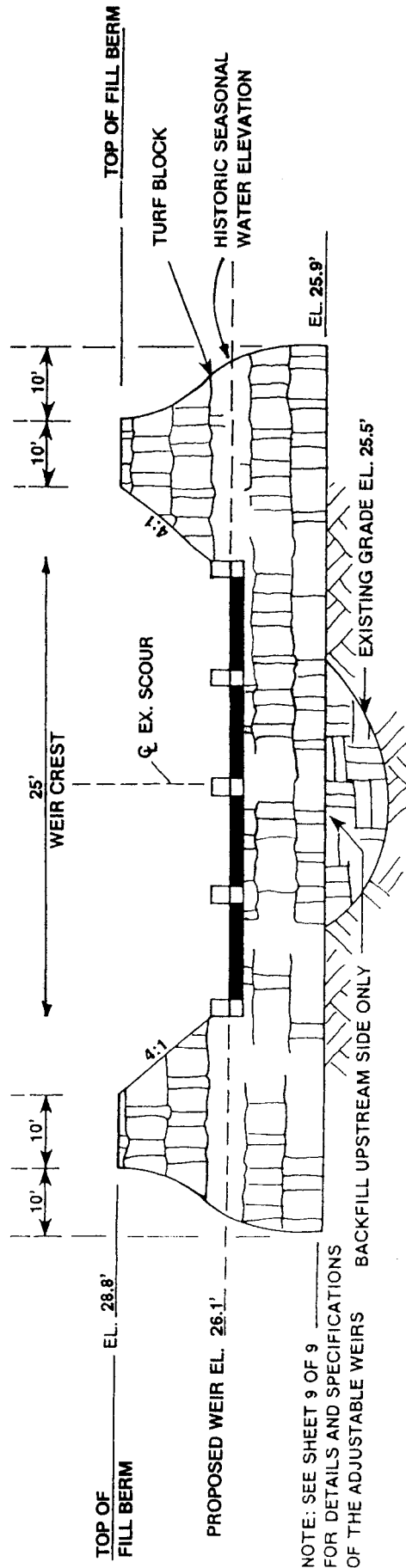
FIGURE 2-C
SLOUGH 2: CROSS SECTION
THROUGH WEIR

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James E. [Signature]
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SECTION C-C
N.T.S.

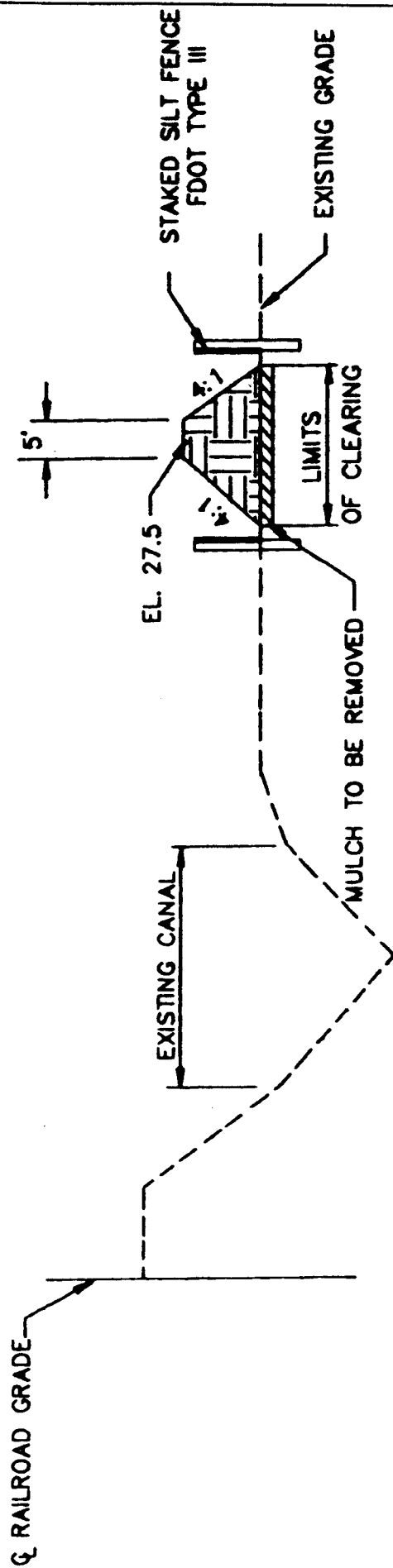
FIGURE 2-D

SLOUGH 2: FRONT VIEW OF WEIR

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SECTION A-A

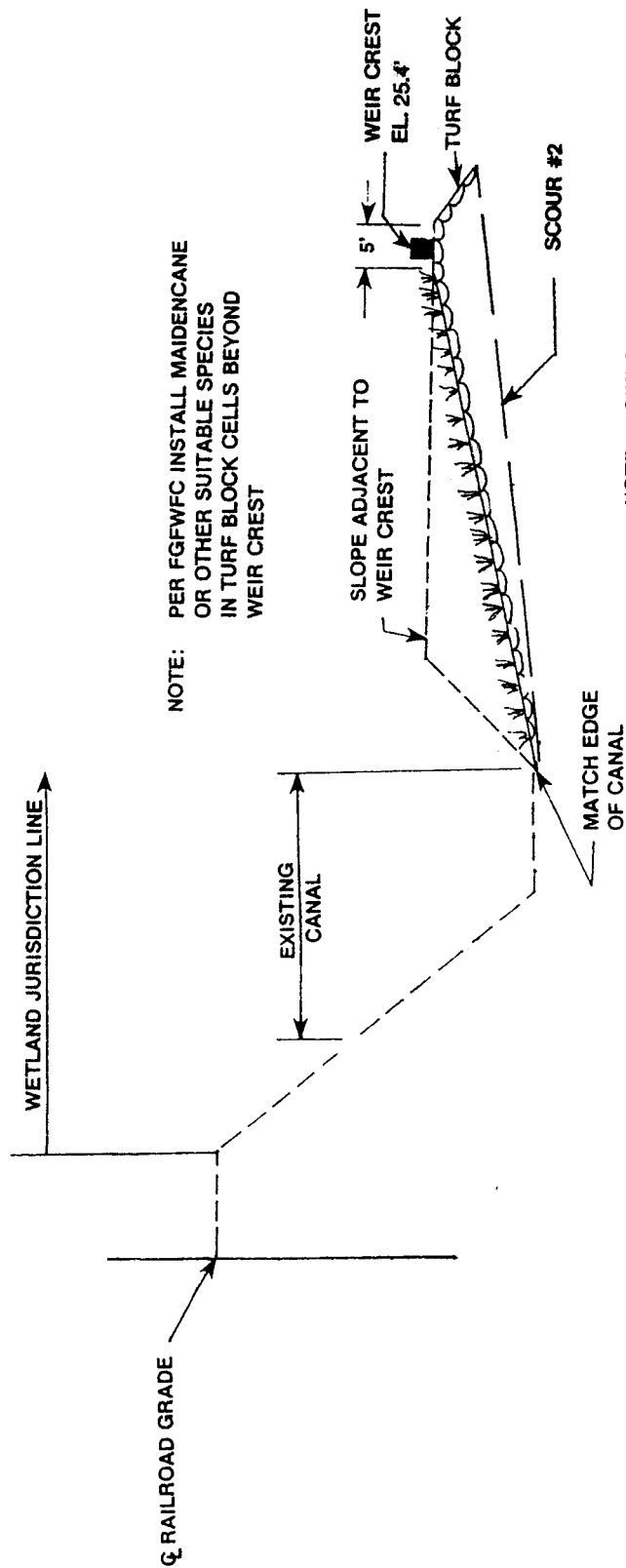
N.T.S.

FIGURE 3-B
SLOUGH 2: CROSS SECTION
THROUGH BERM

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SECTION B-B

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FIGURE 3-C
SLOUGH 2: CROSS SECTION
THROUGH WEIR

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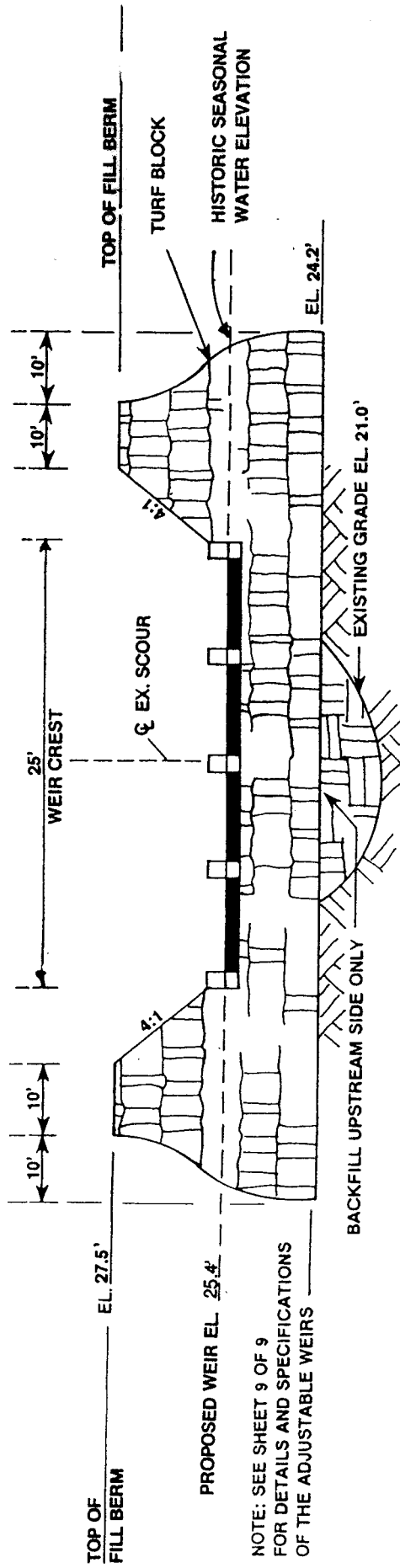


FIGURE 3-D
SLOUGH 2: FRONT VIEW OF WEIR

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WETLAND RESTORATION
FEB 24 1993

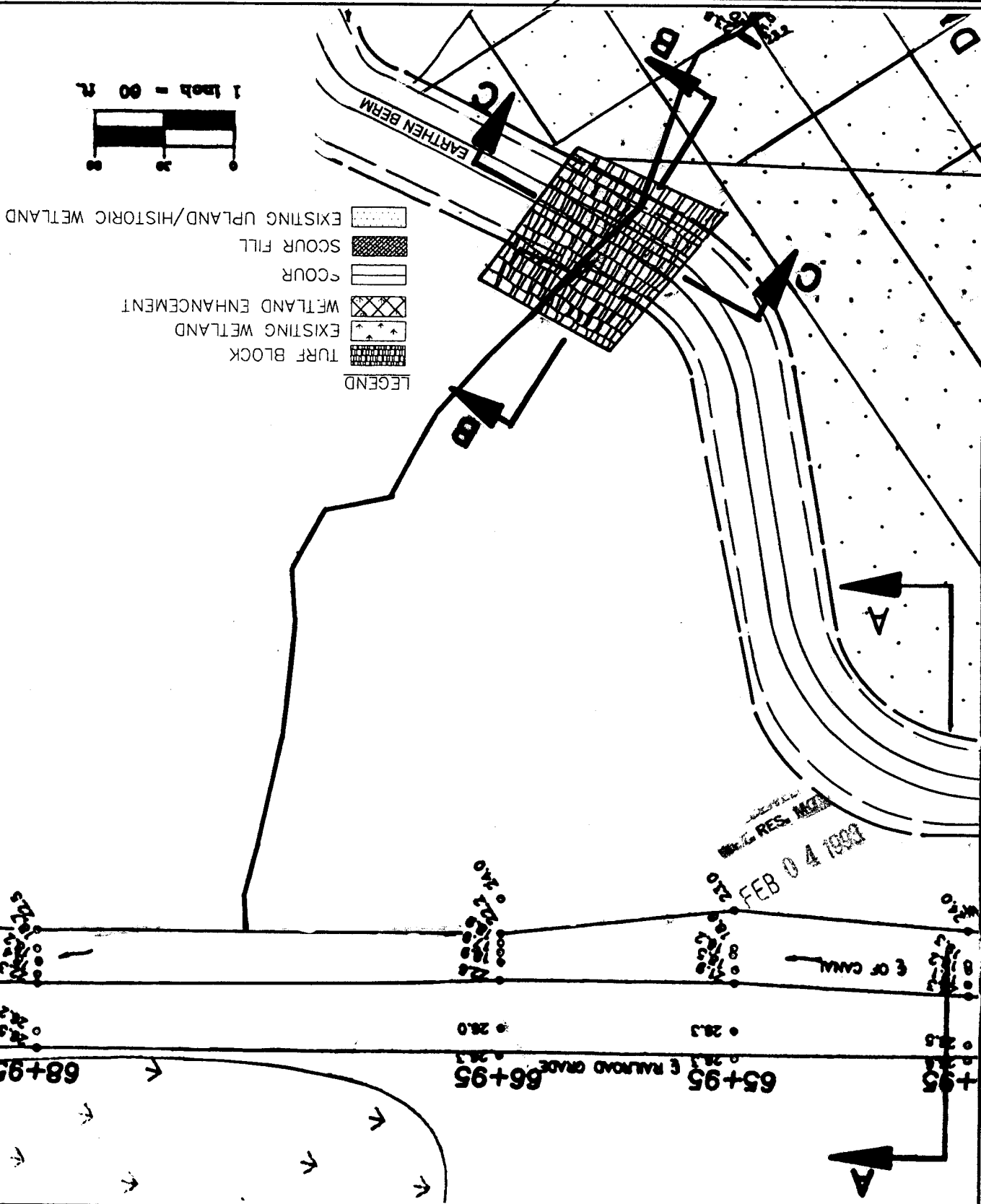
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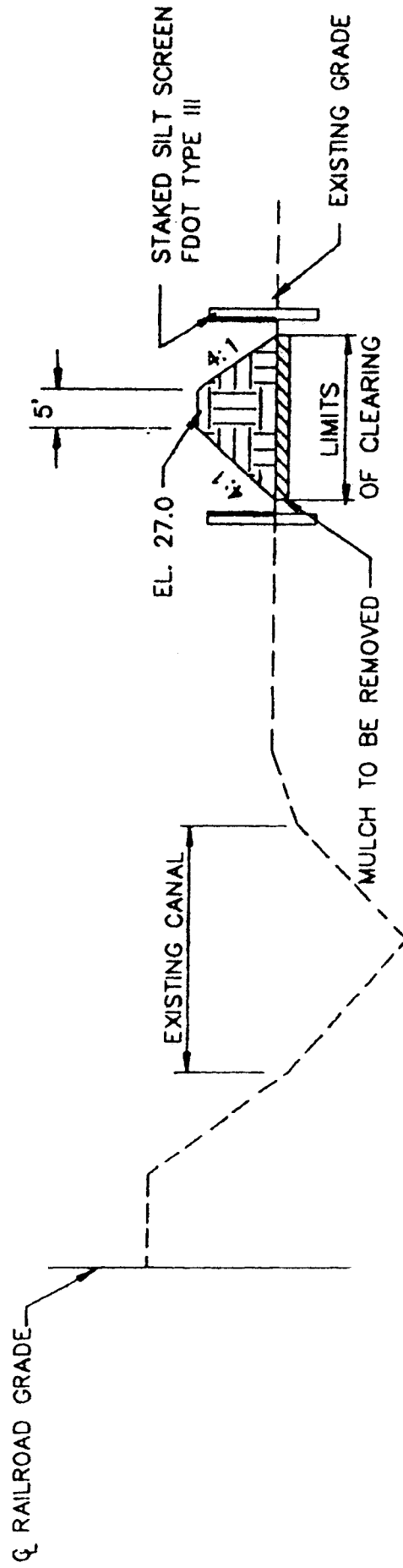
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FIGURE 4-A
SLOUGH 3: PLAN VIEW OF WEIR





SECTION A-A

N.T.S.

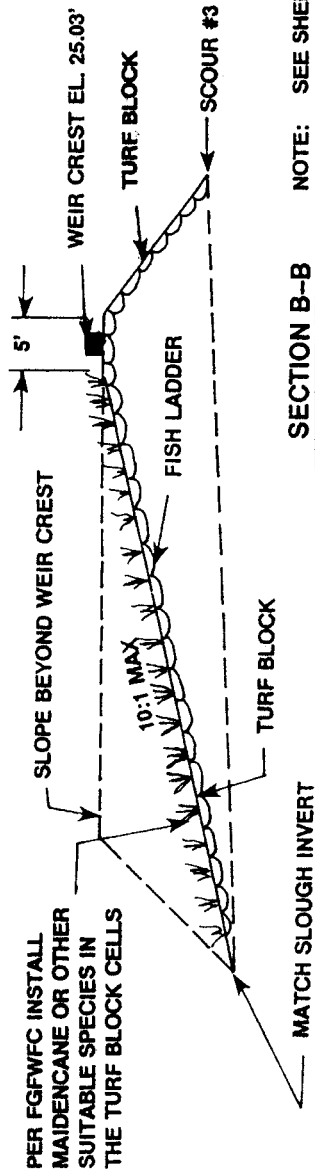
FIGURE 4-B
SLOUGH 3: CROSS SECTION
THROUGH BERM

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Dr. E. J. 11-92
Dr. 11-92

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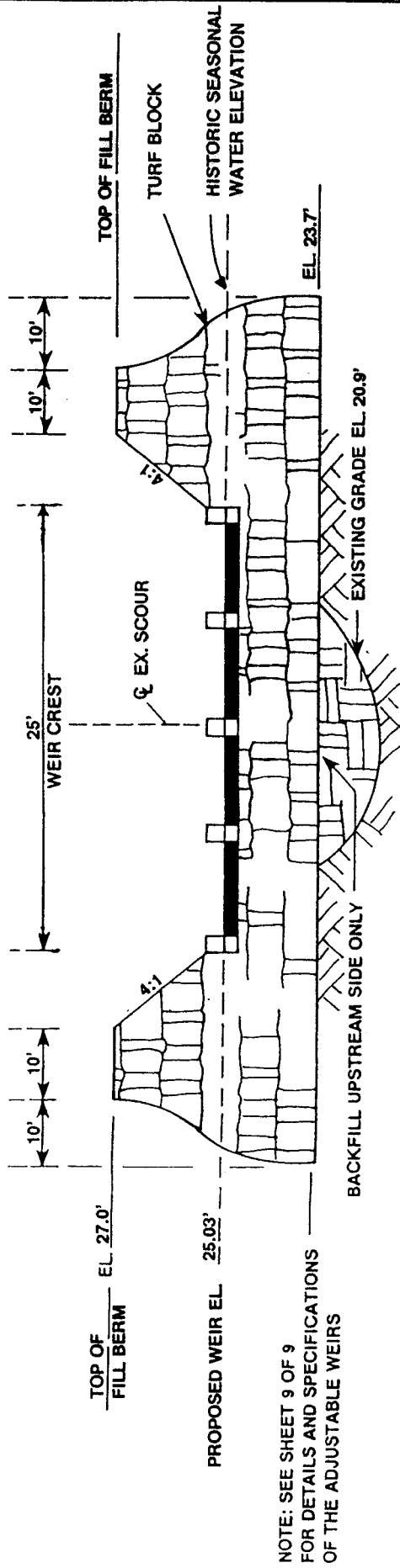
SECTION B-B
N.T.S.

FIGURE 4-C
SLOUGH 3: CROSS SECTION
THROUGH WEIR

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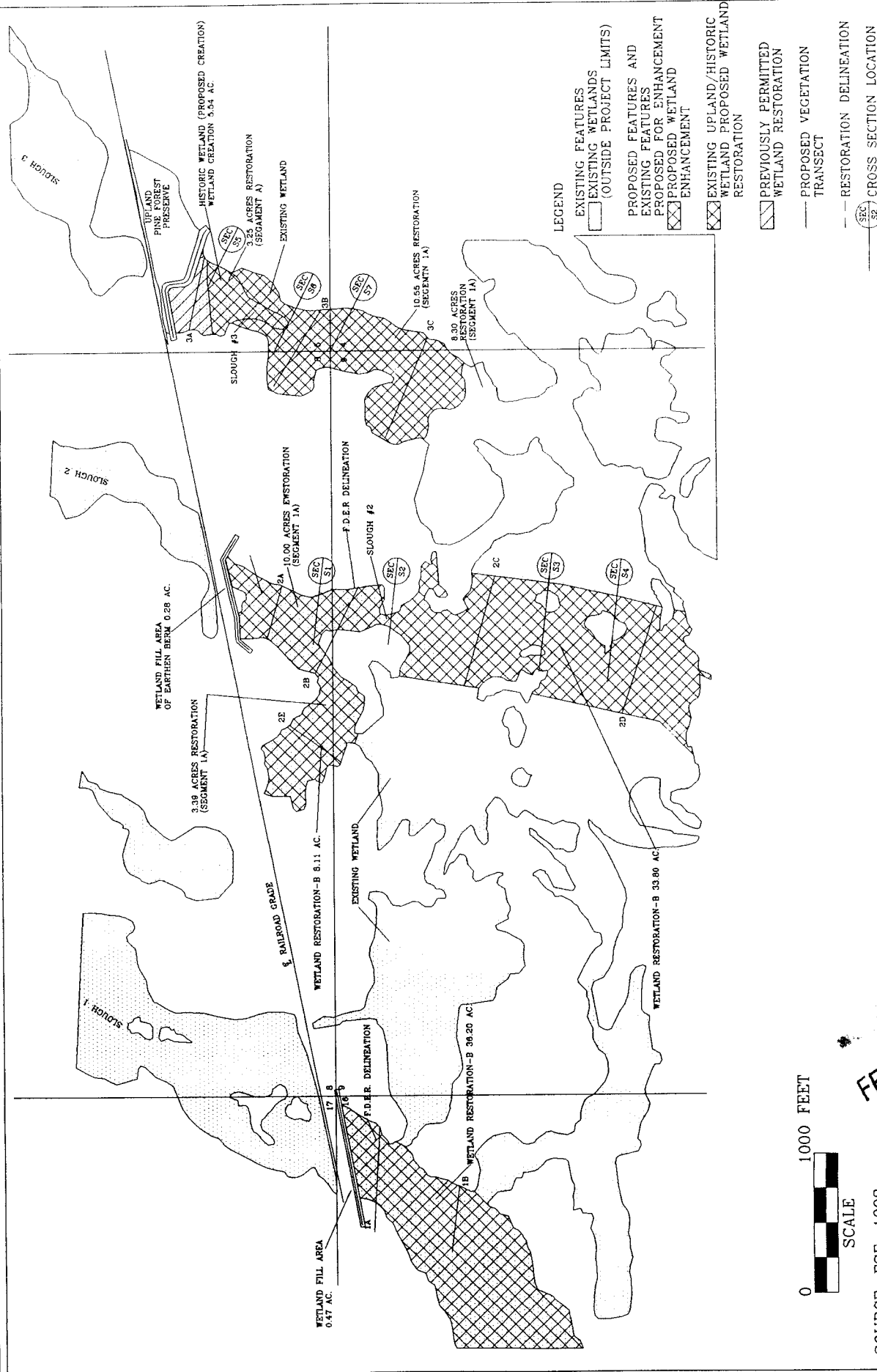
SECTION C-C
N.T.S.

FIGURE 4-D
SLOUGH 3: FRONT VIEW OF WEIR

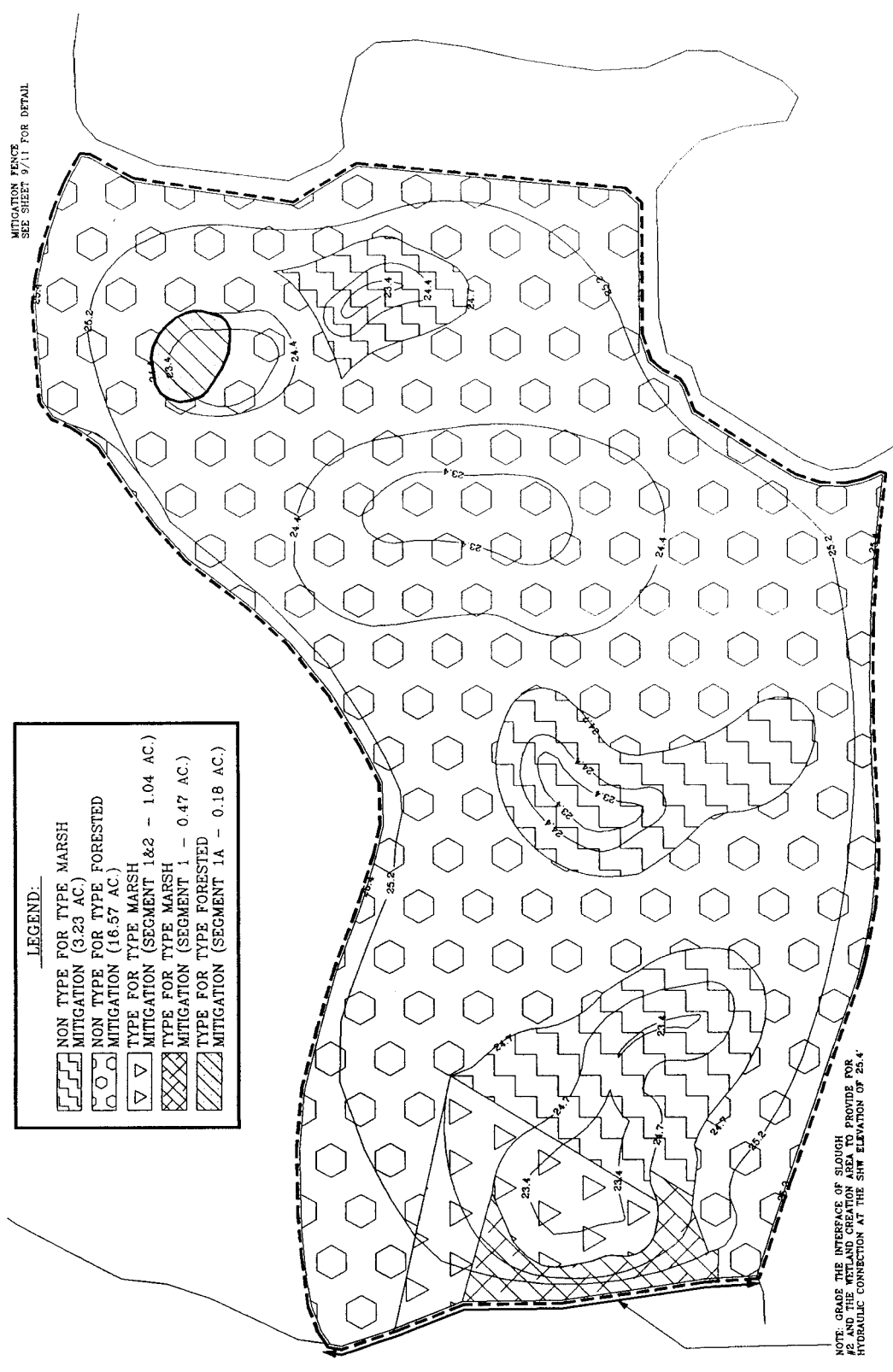
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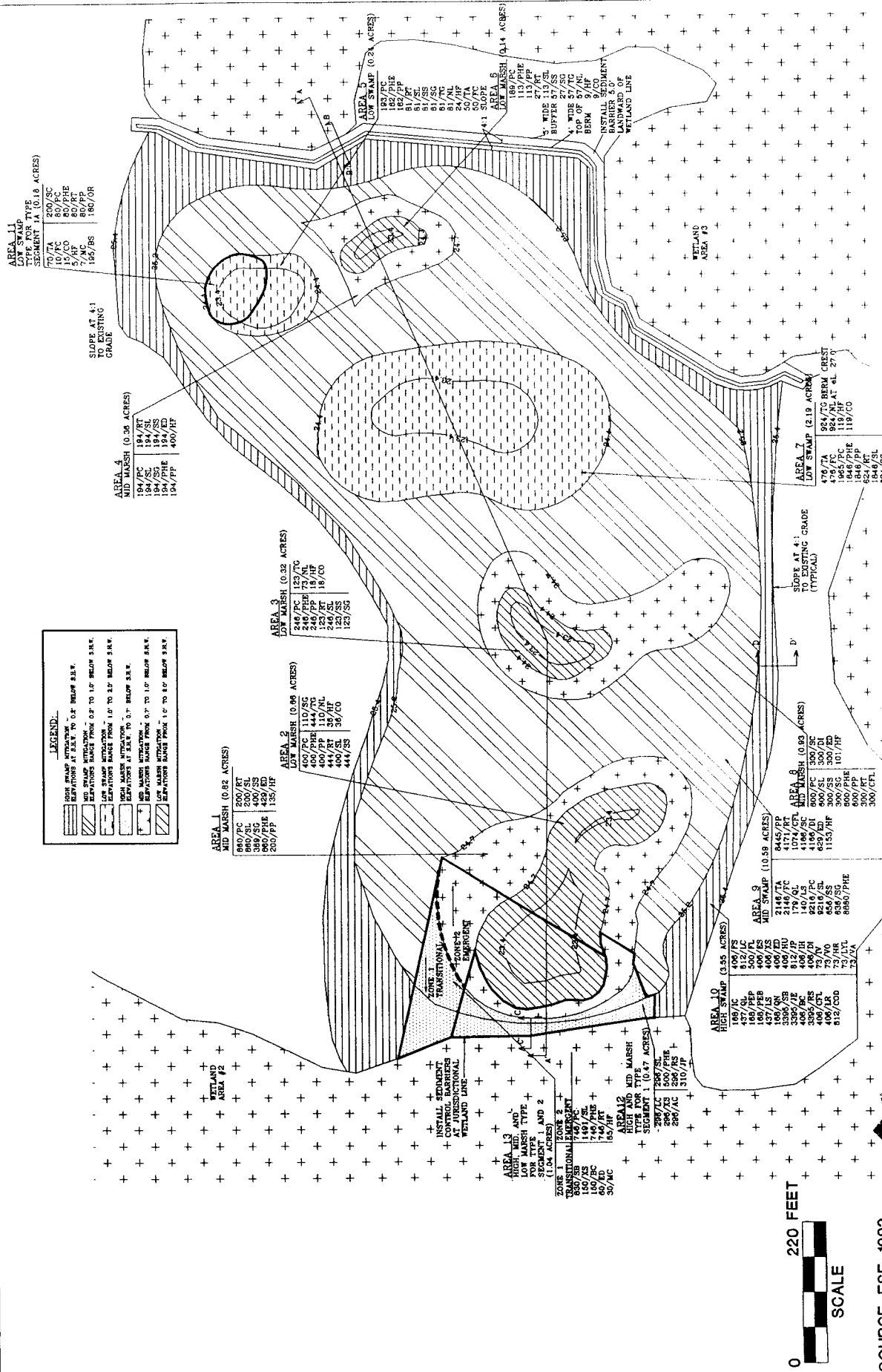
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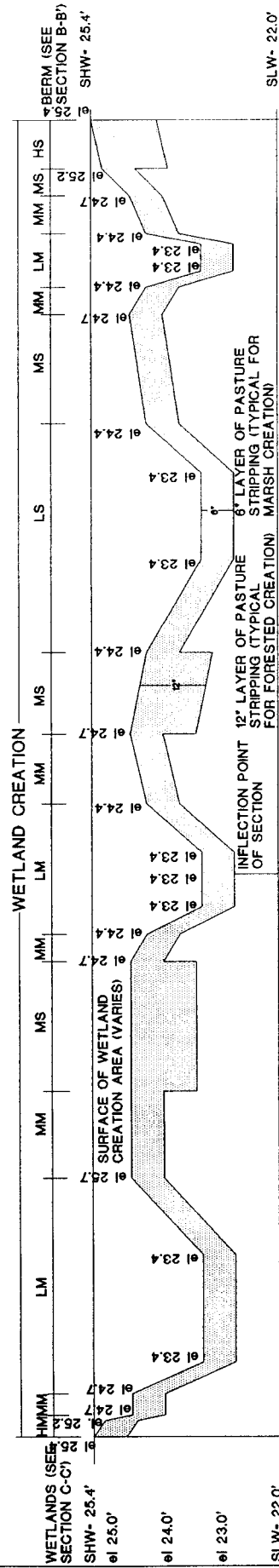
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SOURCE: ESE, 1992

**FIGURE 7
KEY PLAN**

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VIEW

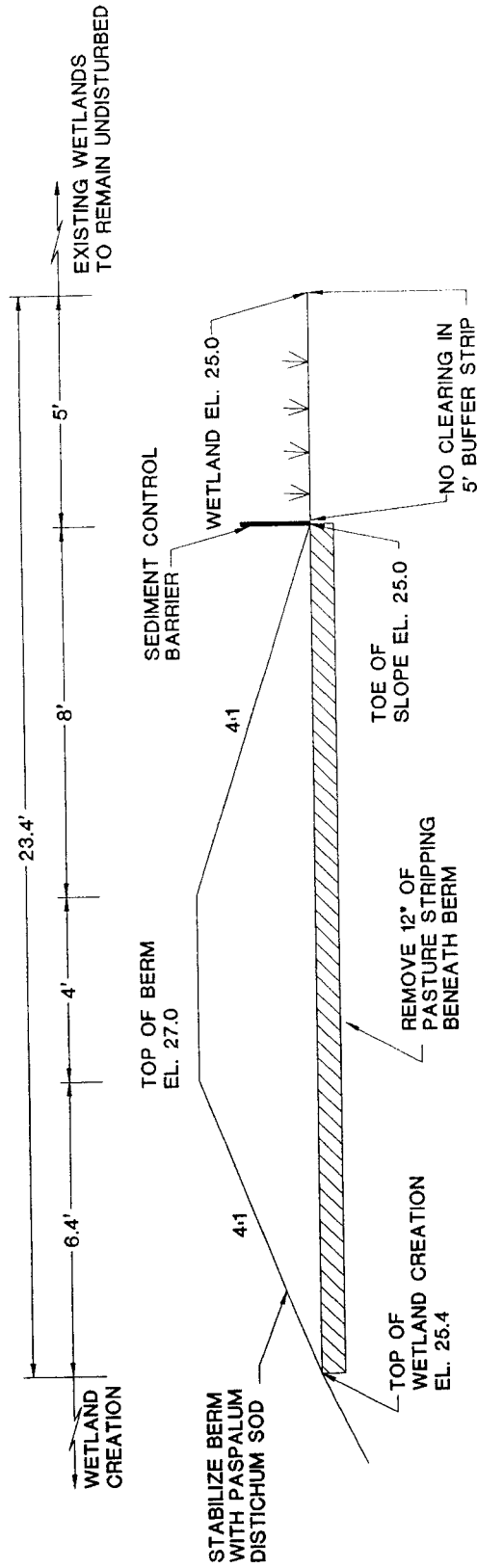
KEY

LM	-	LOW MARSH	LOW WATER
MM	-	MID MARSH	LOW WATER
HM	-	HIGH MARSH	HIGH WATER
LS	-	LOW SWAMP	LOW WATER
MS	-	MID SWAMP	HIGH WATER
HS	-	HIGH SWAMP	HIGH WATER
SLW	-	SEASONAL	LOW WATER
SHW	-	SEASONAL	HIGH WATER

SOURCE: ESE, 1992

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SECTION B-B
DETAIL OF BERM
AT NORTHERN EDGE OF
MITIGATION AREA

SCALE: VERTICAL, 1"=4'
HORIZONTAL, 1"=5'

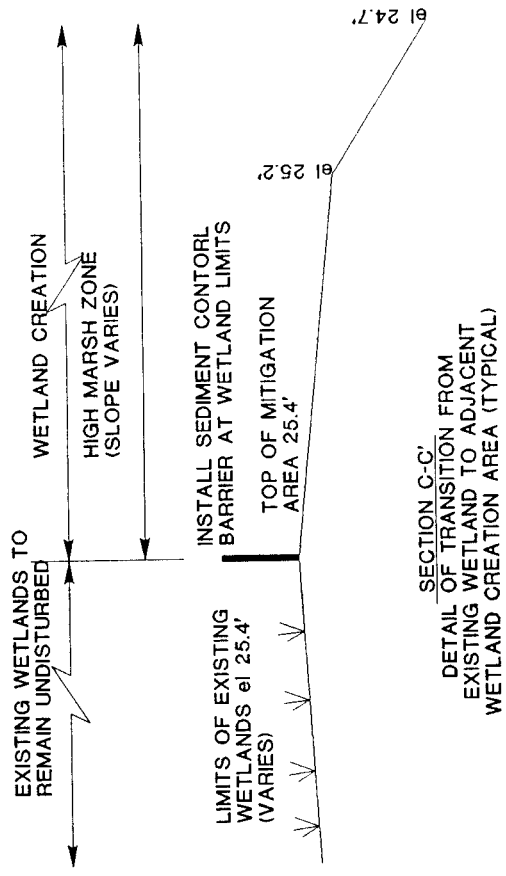
SOURCE: ESE, 1992

FIGURE 8-B
CROSS SECTION DETAIL OF BERM

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SECTION C-C'
 DETAIL OF TRANSITION FROM
 EXISTING WETLAND TO ADJACENT
 WETLAND CREATION AREA (TYPICAL)

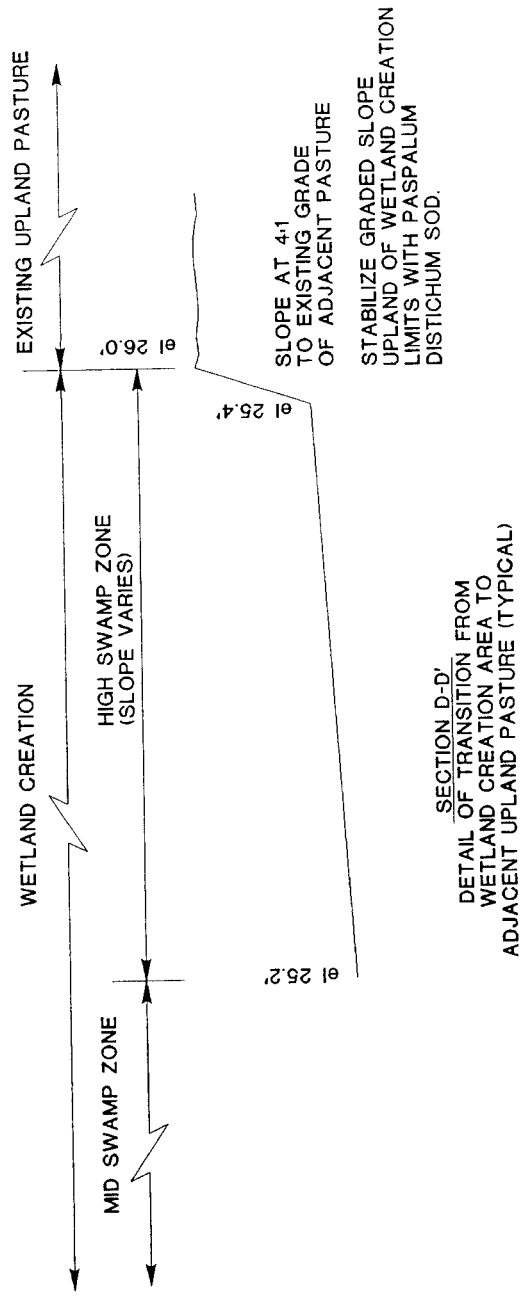
SCALE: VERTICAL, 1"=1'
 HORIZONTAL, 1"=10'
 SOURCE: ESE, 1992

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[Handwritten signature]

FIGURE 8-C
 CROSS SECTION EXISTING WETLAND TO
 WETLAND CREATION

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SCALE: VERTICAL, 1"=1'
HORIZONTAL, 1"=10'

SOURCE: ESE, 1992

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FIGURE 8-D
CROSS SECTION WETLAND CREATION
TO UPLAND PASTURE

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SYMBOL	QUANTITY	SPECIES NAME	COMMON NAME	SPECIFICATIONS
TREES				
TA	2742	<i>Taxodium ascendens</i>	Pond cypress	3 Gallon, 4' - 5' HT., 10' o.c.
FC	2682	<i>Fraxinus caroliniana</i>	Pop ash	3 Gallon, 4' - 5' HT., 10' o.c.
IC	168	<i>Ilex cassine</i>	Dahoon holly	3 Gallon, 2' - 3' HT., 20' o.c.
PEB	168	<i>Persea borbonia</i>	Red bay	3 Gallon, 4' - 5' HT., 10' o.c.
PEP	168	<i>Persea palustris</i>	Swamp bay	3 Gallon, 4' - 5' HT., 10' o.c.
LS	577	<i>Liquidambar styraciflua</i>	Sweet gum	3 Gallon, 4' - 5' HT., 10' o.c.
QL	616	<i>Quercus laurifolia</i>	Laurel oak	3 Gallon, 4' - 5' HT., 10' o.c.
QN	168	<i>Quercus nigra</i>	Water oak	3 Gallon, 4' - 5' HT., 10' o.c.
SHRUBS				
VA	73	<i>Vaccinium arboreum</i>	Blueberry	1 Gallon, 2' - 3' HT., 20' o.c.
VO	73	<i>Viburnum obovatum</i>	Viburnum	1 Gallon, 2' - 3' HT., 20' o.c.
IV	73	<i>Itea virginica</i>	Virginia willow	1 Gallon, 2' - 3' HT., 20' o.c.
CO	197	<i>Cephalanthus occidentalis</i>	Buttonbush	1 Gallon, 2' - 3' HT., 20' o.c.
LYL	73	<i>Lyonia lucida</i>	Fetterbush	1 Gallon, 2' - 3' HT., 20' o.c.
MC	37	<i>Myrica cerifera</i>	Wax myrtle	1 Gallon, 2' - 3' HT., 20' o.c.
HF	2085	<i>Hypericum fasciculatum</i>	St. John's-wort	1 Gallon, 2' - 3' HT., 20' o.c.
HR	73	<i>Hypericum reductum</i>	St. John's-wort	1 Gallon, 2' - 3' HT., 20' o.c.

FIGURE 8-E
PLANT LIST - TREES AND SHRUBS

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HERBS					
AC	296	<i>Aster carolinianus</i>		Aster	2" Pot, 6" - 9" HT., 3'o.c.
BC	556	<i>Bacopa caroliniana</i>		Bacopa	2" Pot, 6" - 9" HT., 3'o.c.
BS	180	<i>Blechnum serrulatum</i>		Saw-toothed fern	2" Pot, 6" - 9" HT., 3'o.c.
CFL	1780	<i>Canna flacida</i>		Golden canna	2" Pot, 6" - 9" HT., 3'o.c.
COD	812	<i>Cyperus odoratus</i>		Sedge	2" Pot, 6" - 9" HT., 3'o.c.
DI	5684	<i>Dichanthelium spp.</i>		Witch grass	2" Pot, 6" - 9" HT., 3'o.c.
ED	2018	<i>Eriocaulon decangulare</i>		Pipewort	2" Pot, 6" - 9" HT., 3'o.c.
ES	406	<i>Eleocharis spp.</i>		Spikerush	2" Pot, 6" - 9" HT., 3'o.c.
FL	500	<i>Flaveria linearis</i>		Yellowtop	2" Pot, 6" - 9" HT., 3'o.c.
FS	406	<i>Fuirena spp.</i>		Umbrella grass	2" Pot, 6" - 9" HT., 3'o.c.
HU	406	<i>Hydrocotyle umbellata</i>		Marsh pennywort	2" Pot, 6" - 9" HT., 3'o.c.
IH	406	<i>Iris hexagona</i>		Iris	2" Pot, 6" - 9" HT., 3'o.c.
JE	3395	<i>Juncus effusus</i>		Soft rush	2" Pot, 6" - 9" HT., 3'o.c.
JP	1122	<i>Juncus polycephalus</i>		Juncus	2" Pot, 6" - 9" HT., 3'o.c.
LC	1108	<i>Lachnanthes caroliniana</i>		Redroot	2" Pot, 6" - 9" HT., 3'o.c.
LR	406	<i>Ludwigia repens</i>		Ludwigia	2" Pot, 6" - 9" HT., 3'o.c.

FIGURE 8-F
PLANT LIST - HERBS (1 OF 2)

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SYMBOL	QUANTITY	SPECIES NAME	COMMON NAME	SPECIFICATIONS
NL	1245	<i>Nuphar luteum</i>	Spatterdock	2" Pot, 6" HT. min, 3' o.c.
OR	180	<i>Osmunda regalis</i>	Royal fern	2" Pot, 6" HT. min, 3' o.c.
PC	14689	<i>Pontederia cordata</i>	Pickernelweed	2" Pot, 6" HT. min, 3' o.c.
PHE	12781	<i>Panicum hemitomon</i>	Maidencane	2" Pot, 6" HT. min, 3' o.c.
PP	12286	<i>Polygonum punctatum</i>	Smartweed	2" Pot, 6" HT. min, 3' o.c.
RS	3691	<i>Rhynchospora spp.</i>	Rush	2" Pot, 6" HT. min, 3' o.c.
RT	6990	<i>Rhynchospora tracyi</i>	Rush	2" Pot, 6" HT. min, 3' o.c.
SB	4195	<i>Spartina bakeri</i>	Cordgrass	2" Pot, 6" HT. min, 3' o.c.
SC	4666	<i>Saururus cernuus</i>	Lizard's tail	2" Pot, 6" HT. min, 3' o.c.
SG	1860	<i>Sagittaria graminea</i>	Arrowhead	2" Pot, 6" HT. min, 3' o.c.
SL	15737	<i>Sagittaria lancifolia</i>	Arrowhead	2" Pot, 6" HT. min, 3' o.c.
SS	2879	<i>Sagittaria subulata</i>	Arrowhead	2" Pot, 6" HT. min, 3' o.c.
TG	1629	<i>Thalia geniculata</i>	Flag	2" Pot, 6" HT. min, 3' o.c.
WV	0	<i>Woodwardia virginica</i>	Virginia chain fern	2" Pot, 6" HT. min, 3' o.c.
XS	852	<i>Xyris spp.</i>	Yellow-eyed grass	2" Pot, 6" HT. min, 3' o.c.

FIGURE 8-G
PLANT LIST - HERBS (2 OF 2)
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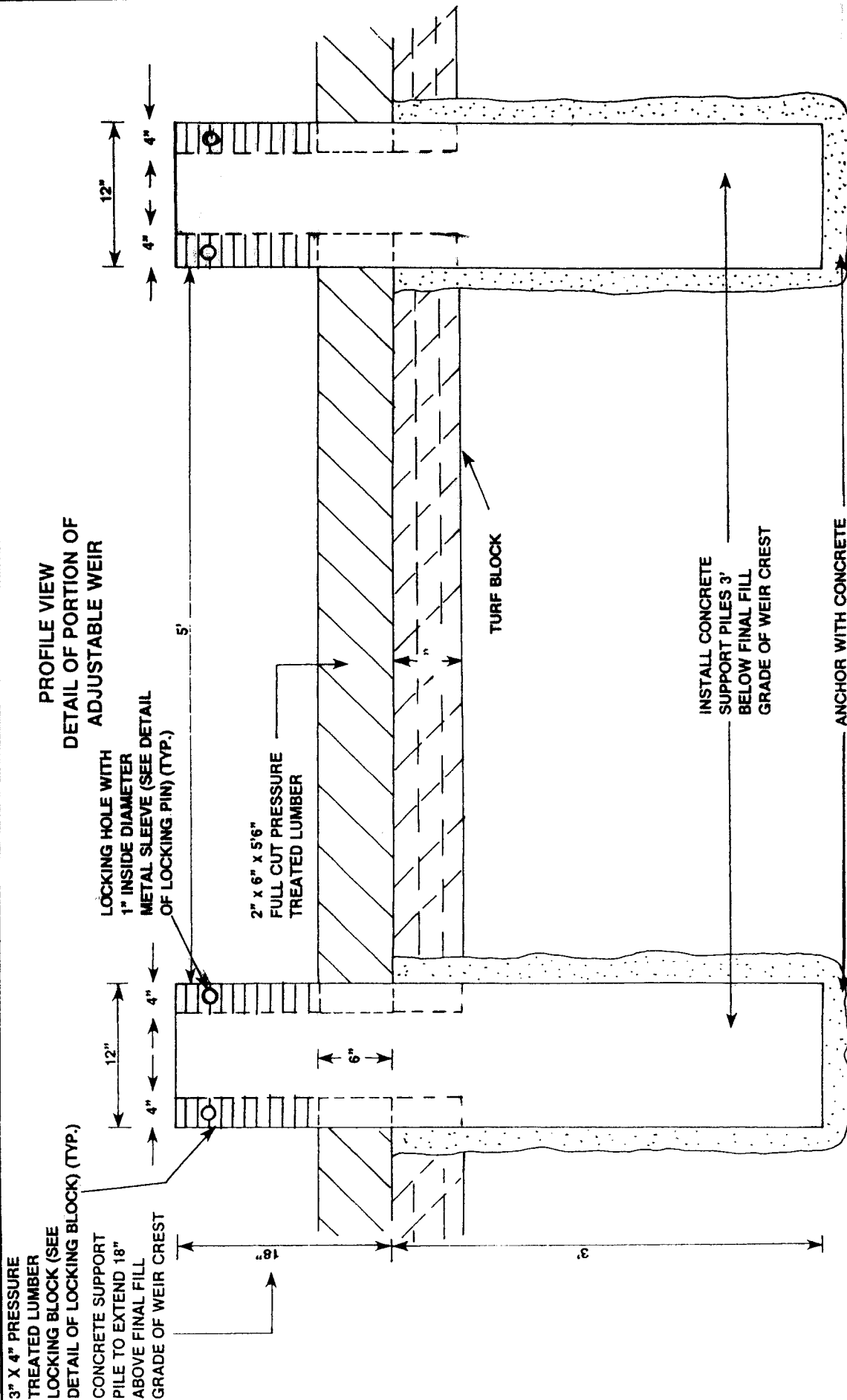


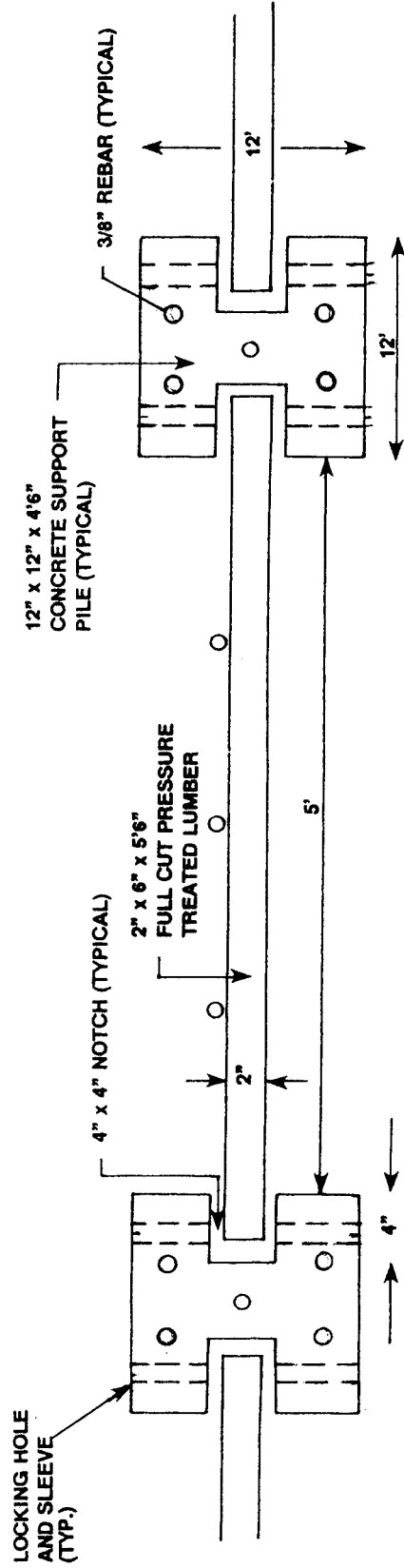
FIGURE 9-A
WEIR DETAIL PROFILE VIEW

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PLAN VIEW
DETAIL OF PORTION OF
ADJUSTABLE WEIR

FIGURE 9-B
WEIR DETAIL PLAN VIEW

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1. The adjustable flash board riser weirs have been integrated into the design at the specific request of the FDER.
2. The intent of the adjustable weirs, is to if warranted, be able to fine tune the hydropower and water depths of the wetland mitigation and enhancement areas.
3. The proposed elevation of the weir crest will be the top edge of a single row of 2" * 6" * 5'6" full cut pressure treated lumber (flash board riser), set on edge.
4. The flash board risers will be bolted or otherwise secured in place, to prevent unauthorized adjustments.
5. Any adjustments to the weir elevations will be documented and forwarded to the FDER and SWFWMD within 10 working days.
6. After a period of 5 years, the adjustable weir will be converted to a fixed crest weir at an elevation supported by hydrologic monitoring data.
7. Weir height specifications for each slough are as follows:

	Slough No.			No. of 6" Risers
	1	2	3	
Minimum Elevation	25.6	24.9	24.53	0
Proposed Elevation	26.1	25.4	25.03	1
Mid Elevation	26.6	25.9	25.53	2
Maximum Elevation	27.1	26.4	26.03	3

FIGURE 9-D
WEIR SPECIFICATIONS

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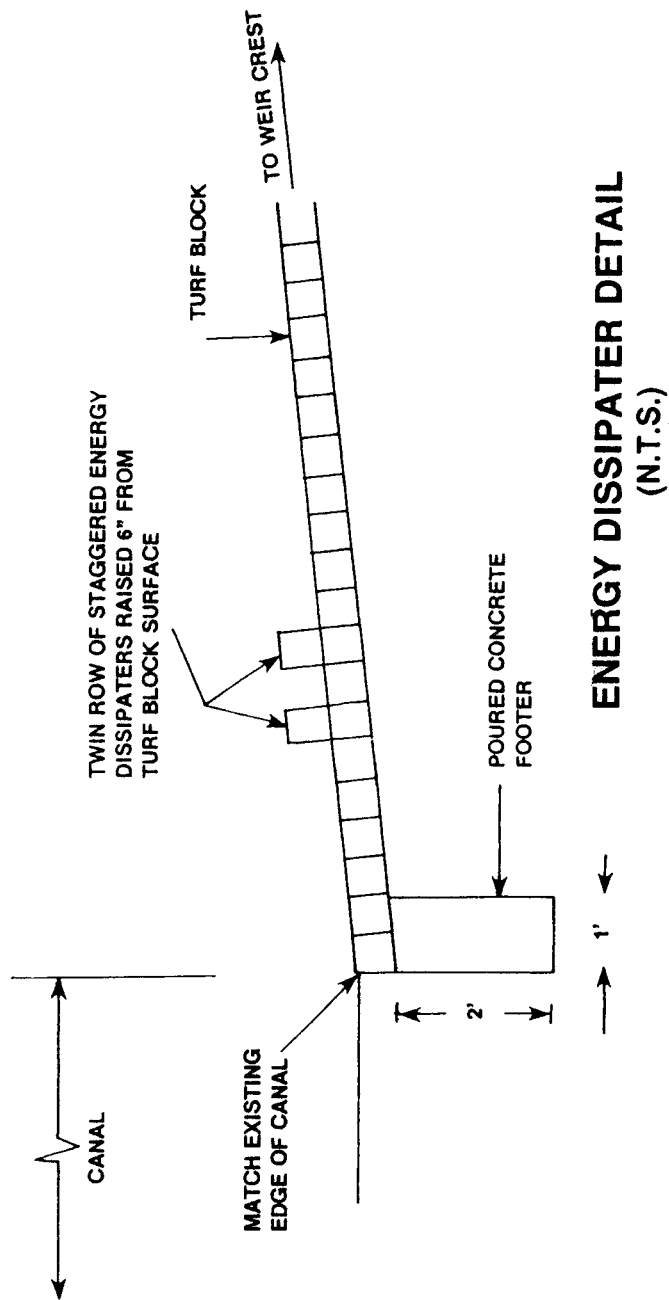


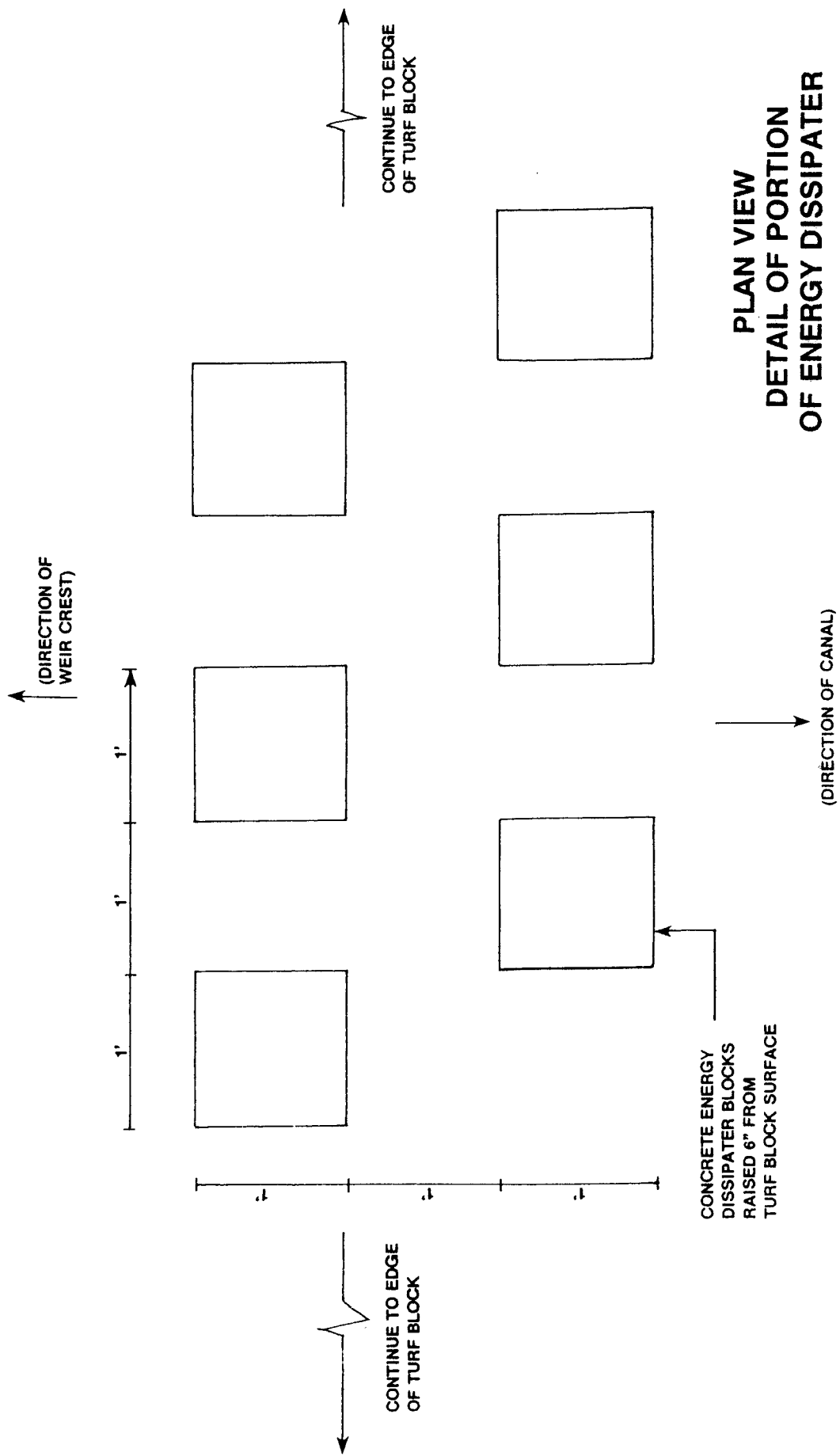
FIGURE 9-E
CROSS SECTION OF ENERGY
DISSIPATER

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PLAN VIEW
DETAIL OF PORTION
OF ENERGY DISSIPATER

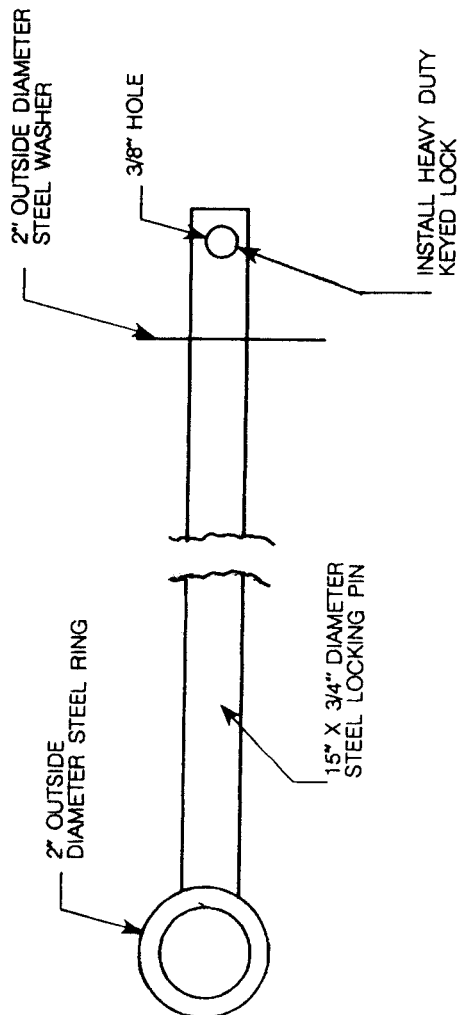
FIGURE 9-F
PLAN VIEW OF ENERGY
DISSIPATER

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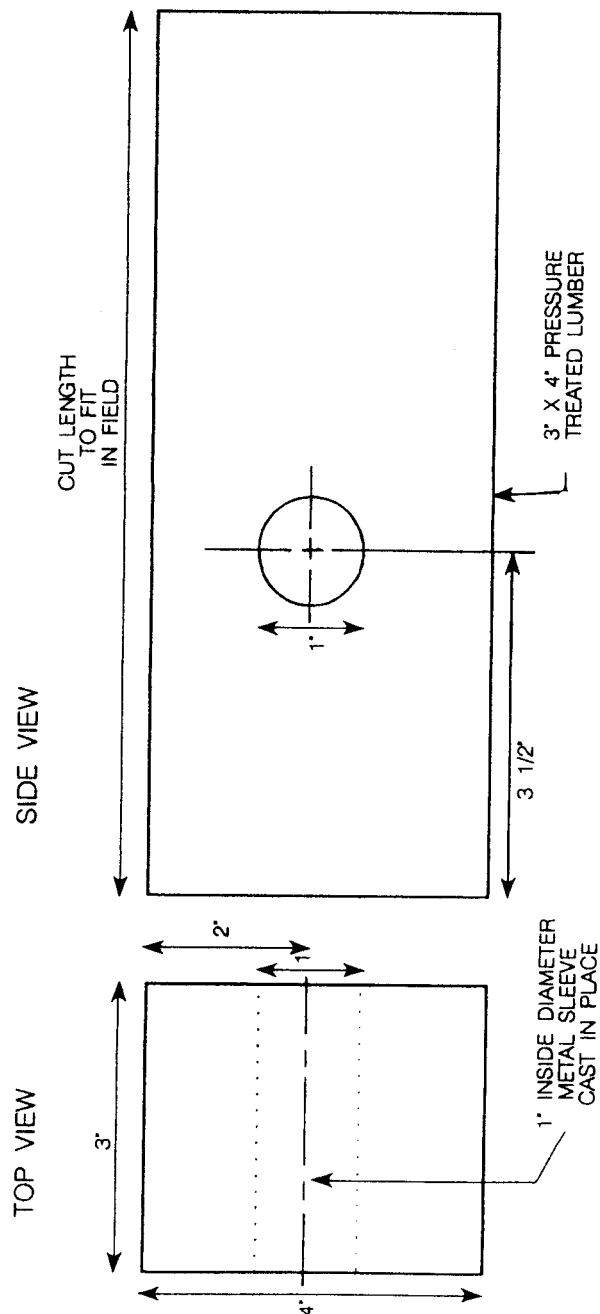
LOCKING PIN DETAIL
(N.T.S.)

FIGURE 9-G
LOCKING PIN DETAIL

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LOCKING BLOCK DETAIL
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FIGURE 9-H
LOCKING BLOCK DETAIL

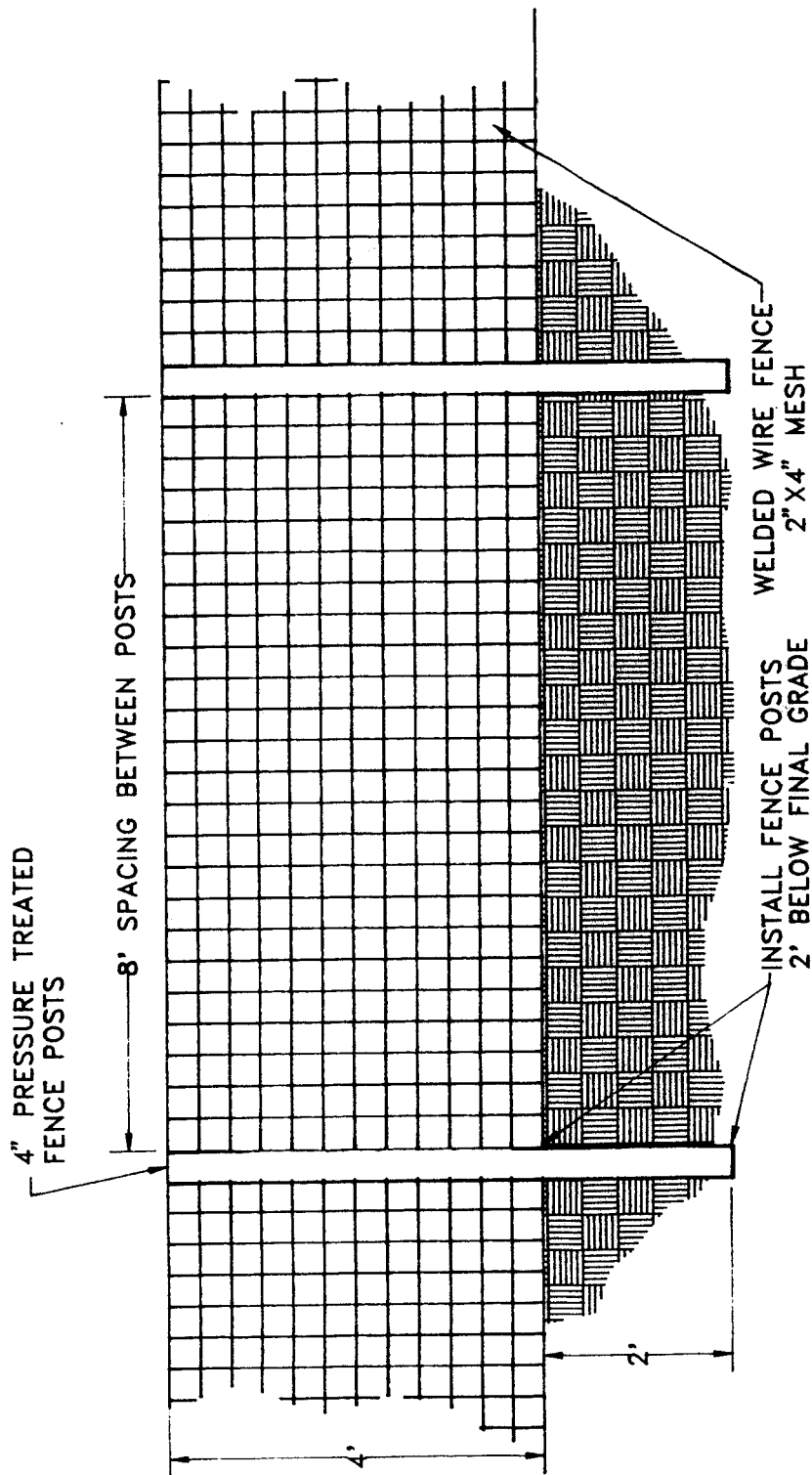
REC'D
FEB 04 1982

Robert E. ...
11-11-82

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MITIGATION FENCE DETAIL



SEE SHEET 6/9 FOR FENCE LOCATION
(NOT TO SCALE)

FIGURE 9-1

MITIGATION FENCE DETAIL

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